LIBRARY
DEPARTMENT OF NATURAL RESOURCES
GEOLOGY AND EARTH RESOURCES DIVISION
OLYMPIA, WASHINGTON 98504

WASHINGTON DIVISION OF GEOLOGY AND EARTH RESOURCES
Raymond Lasmanis, State Geologist

BIBLIOGRAPHY AND INDEX OF MINERAL RESOURCES OF THE U.S. EXCLUSIVE ECONOMIC ZONE WEST OF THE WASHINGTON STATE COASTLINE

Compiled by

VIRGINIA J. TAKEN

WASHINGTON DIVISION OF GEOLOGY AND EARTH RESOURCES

OPEN FILE REPORT 87-12

1987

This report has not been edited or reviewed for conformity with Division of Geology and Earth Resources standards and nomenclature.

WASHINGTON STATE DEPARTMENT OF
Natural Resources
Brian Boyle · Commissioner of Public Lands
Art Stearns · Supervisor

QE175
A3
O6
87-12
copy 1
JUL 1 0 1987

CONTENTS

	Page
Introduction	ii
Acknowledgments	iii
Bibliography	1
Subject Index	51

BIBLIOGRAPHY AND INDEX OF MINERAL RESOURCES OF THE U.S. EXCLUSIVE ECONOMIC ZONE WEST OF THE WASHINGTON STATE COASTLINE

Compiled by

VIRGINIA J. TAKEN

INTRODUCTION

This work includes all known reports on the geology and geophysics of the mineral resources of the U.S. Exclusive Economic Zone (EEZ) west of the Washington State coastline. It includes abstracts, journal articles, monographs, maps, theses, conference papers, open-file reports and every other type of published data on this subject. A few other promising references were found, but extensive searching turned up nothing, so these references were not included.

The materials were drawn from many geologic libraries, including the Washington Division of Geology and Earth Resources (DGER) library in Olympia, Washington; the University of Washington libraries in Seattle and Friday Harbor, Washington; the U.S. National Oceanographic and Atmospheric Administration library in Seattle, Washington; the U.S. Geological Survey library in Menlo Park, California; and the U.S. Minerals Management collection in Long Beach, California. A search on the GeoRef data base was conducted to check for additional materials.

This work is presented in three parts:

(1) BIBLIOGRAPHY--Each citation is listed alphabetically and is given in full, in accordance with DGER editorial standards. Joint author cross references are interfiled.

The running heads in the BIBLIOGRAPHY section give the first and last author on each page.

(2) SUBJECT INDEX--Items are indexed alphabetically by subject and area, with subject and (or) geographic subdivisions as appropriate.

In the interest of brevity, items with the same author(s) and title issued more than once (for example, both as a thesis and an abstract) are listed only once in the SUBJECT INDEX, and marked with an asterisk (*).

Because of space limitations, the running heads in the SUBJECT INDEX section give only the first heading on each page.

(3) MAP (pocket plate)--the map shows the approximate locations of geographic areas included in the SUBJECT INDEX. The features shown are informally named in the literature because there is as yet no authority which has designated official names for the features. The names shown are the ones found most commonly in the data included in this BIBLIOGRAPHY and SUBJECT INDEX and none are so different from other variations used as to cause confusion (for example, Astoria Channel vs. Astoria Seachannel).

The materials in this BIBLIOGRAPHY and SUBJECT INDEX are available for reference at the DGER library in Olympia, Washington. Most of them are also held at major research libraries.

The preparation of this BIBLIOGRAPHY and SUBJECT INDEX was funded by purchase order no. 24214-86 dated 9/30/86 from the U.S. Minerals Management Service.

ACKNOWLEDGMENTS

This BIBLIOGRAPHY and INDEX could not have been prepared without the help and encouragement of many people. Raymond Lasmanis, State Geologist, obtained the MMS funding, making the project possible, and provided continuing direction and support. Special thanks go to Connie Manson, Senior Librarian, for her enthusiasm, expert direction, and help. My thanks go also to the entire DGER staff for their support and good fellowship.

I am especially indebted to my husband Darel and daughter Bonnie Lynn for their forbearance and loving patience throughout this project.

BIBLIOGRAPHY

ACHARYA, HEMENDRA, 1981, Juan de Fuca plate --Aseismic subduction at 1.8 cm/yr: Geophysical Research Letters, v. 8, no. 11, p. 1123-1125.

ADAMS, JOHN, 1984, Active deformation of the Pacific Northwest continental margin: Tectonics, v. 3, no. 4, p. 449-472.

ADDICOTT, W. O., 1969, Tertiary climatic change in the marginal northeastern Pacific Ocean: Science, v. 165, no. 3893, p. 583-586.

ADSHEAD, J. D.; BORNHOLD, B. D.; DAVIS, E. E., 1985, Geochemistry of deposits from mound and collapse structures near Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 926.

AIKMAN, FRANK, III, see CRANE, KATHLEEN [and others], 1985.

ALGERMISSEN, S. T., see PERKINS, D. M. [and others], 1980.

ALPHA, T. R., see HOWELL, D. G. [and others], 1980.

ALPHA, T. R., see NELSON, C. H. [and others], 1970.

ANONYMOUS, 1981, Sea-floor geology off western Canada: Episodes, v. 4, no. 4, p. 18.

ANONYMOUS, 1986, America's new frontier: Earth Science, v. 39, no. 2, p. 25-27.

APPELGATE, B.; BRINKHURT, R.; BUTTERFIELD, D.; COWEN, J.; DEBEVOISE, A. E.; DECHARON, A.; EMBLEY, R. W.; FEELY, R. A.; FOX, C. G.; FRANKLIN, J.; ET AL, 1986, Pisces submersible exploration of a high-temperature vent field in the caldera of Axial Volcano, Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 1027.

APPRIOU, P. Y., see MASSOTH, G. J. [and others], 1985.

ARCARO, N. P.; CARSON, BOBB, 1978, Clay mineralogy of Cascadia Basin Quaternary sediments--Control by provenance, weathering, or selective transport? [abstract]: Geological Society of America Abstracts with Programs, v. 10, no. 7, p. 360.

ARCARO, N. P., see CARSON, BOBB [and others], 1983.

ARMENTROUT, J. M., see COLE, M. R. [and others], 1979.

ATWATER, T. M., 1970, Implications of plate tectonics for the Cenozoic tectonic evolution of western North America: Geological Society of America Bulletin, v. 81, no. 12, p. 3513-3536.

ATWATER, T. M., 1970, Implications of plate tectonics for the Cenozoic tectonic evolution of western North America: University of California Scripps Institution of Oceanography Contributions, v. 440, no. 2, p. 1249-1271.

ATWATER, T. M., 1971, Magnetic lineations in the northeast Pacific Ocean--Implications for marine and continental tectonic history [abstract]: Pacific Science Congress, 12th, v. 1, p. 357.

ATWATER, T. M., 1973, Implications of plate tectonics for the Cenozoic tectonic evolution of western North America. In Cox, Allan, editor, 1973, Plate tectonics and geomagnetic reversals; readings: W. H. Freeman Co., p. 583-609.

ATWATER, T. M., 1973, Plate tectonics in the north-east Pacific [abstract]. In The western Pacific--Island arcs, marginal seas, geochemistry: University of Western Australia [Nedlands], p. 31-33.

ATWATER, T. M., 1973, Studies of sea-floor spreading and plate movements in the Pacific Basin. In Tarling, D. H.; Runcorn, S. K., editors, 1973, Implication of continental drift to the earth sciences: Academic Press, v. 1, p. 213-217.

ATWATER, T. M.; MENARD, H. W., 1970, Magnetic lineations in the northeast Pacific: Earth and Planetary Science Letters, v. 7, no. 5, p. 445-450.

AU, D.; CLOWES, R. M., 1979, Crustal structure near the Juan de Fuca and Explorer plate boundary from seismic refraction data [abstract]: Eos (American Geophysical Union Transactions), v. 60, no. 46, p. 886.

BABA, L., see SCHEIDEGGER, K. F. [and others], 1984.

BAKER, E. T., 1983, Present-day sedimentation patterns in Quinault submarine canyon, Washington continental slope [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 18, p. 240.

BAKER, E. T.; HICKEY, B. M., 1986, Contemporary sedimentation processes in and around an active west coast submarine canyon: Marine Geology, v. 71, no. 1/2, p. 15-34.

BAKER, E. T.; MASSOTH, G. J., 1985, Heat and particle fluxes from active vent fields on the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 930.

BAKER, E. T., see CARSON, BOBB [and others], 1982.

BAKER, E. T., see CARSON, BOBB [and others], 1983.

BAKER, E. T., see CARSON, BOBB [and others], 1984.

BAKER, E. T., see CARSON, BOBB [and others], 1986.

BAKER, E. T., see HICKEY, B. M. [and others], 1983.

BAKER, E. T., see MASSOTH, G. J. [and others], 1983.

BAKER, E. T., see MASSOTH, G. J. [and others], 1985.

BAKER, E. T., see SNYDER, G. W. [and others], 1983.

BALES, W. E., see BERG, J. W., JR. [and others], 1968.

BALES, W. E., see EMILIA, D. A. [and others], 1966.

BALES, W. E., see EMILIA, D. A. [and others], 1968.

BALLARD, R. D.; BISCHOFF, J. L., PANEL CHAIRMEN, 1984, Assessment and scientific understanding of hard mineral resources in the EEZ. In Symposium proceedings--A national program for the assessment and development of the mineral resources of the United States Exclusive Economic Zone: U.S. Geological Survey Circular 929, p. 185-208.

BALSAM, W. L., see HEUSSER, L. E. [and others], 1975.

BALSAM, W. L., see HEUSSER, L. E. [and others], 1977.

BANKS, HAROLD see DUNCAN, J. R. [and others], 1969.

BARNARD, W. D., 1972, Late Pleistocene-Holocene biostratigraphy on the Washington continental slope [abstract]: Northwest Scientific Association, 45th Annual Meeting, Abstracts of Papers, p. 2.

BARNARD, W. D., 1973, Late Cenozoic sedimentation on the Washington continental slope: University of Washington Doctor of Philosophy thesis, 255 p.

BARNARD, W. D., 1973, Late Pleistocene deformation of Cascadia Basin turbidites along Washington continental margin [abstract]: American Association of Petroleum Geologists Bulletin, v. 57, no. 4, p. 768-769.

BARNARD, W. D., 1974, Late Cenozoic sedimentation on the Washington continental slope [abstract]: Dissertation Abstracts International, v. 34, no. 8, Section B, p. 3950-B.

BARNARD, W. D., 1974, Westward progressing Pleistocene deformation of the lower continental slope of the Washington coast [abstract]: Geological Society of America Abstracts with Programs, v. 6, no. 7, p. 645.

BARNARD, W. D., 1978, The Washington continental slope--Quaternary tectonics and sedimentation: Marine Geology, v. 27, no. 1-2, p. 79-114.

BARNARD, W. D.; MCMANUS, D. A., 1973, Planktonic foraminiferan-radiolarian stratigraphy and the Pleistocene-Holocene boundary in the northeast Pacific: Geological Society of America Bulletin, v. 84, no. 6, p. 2097-2100.

BARNARD, W. D., see CARSON, BOBB [and others], 1974.

BARNARD, W. D., see SILVER, E. A. [and others], 1971.

BARNES, C. A.; GROSS, M. G., 1966, Distribution at sea of Columbia River water and its load of radionuclides. In Disposal of radioactive wastes into seas, oceans and surface waters; Symposium, Vienna, 1966, Proceedings: International Atomic Energy Agency, p. 291-302.

BARNES, C. A., see GROSS, M. G. [and others], 1964.

BARNES, C. A., see MORSE, B.-A. [and others], 1967.

BARNES, C. A., see MORSE, B.-A. [and others], 1968.

BARNES, S. S., see ECHOLS, R. J. [and others], 1969.

BARR, S. M., 1972, Geology of the northern end of Juan de Fuca Ridge and adjacent continental slope: University of British Columbia Doctor of Philosophy thesis, 286 p.

BARR, S. M., 1973, Geology of the northern end of Juan de Fuca Ridge and adjacent continental slope [abstract]: Dissertation Abstracts International, v. 34, no. 6, Section B, p. 2708-B-2709-B.

BARR, S. M., 1973, The spreading centre near the northern end of Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 54, no. 3, p. 141.

BARR, S. M., 1974, Seamount chains formed near the crest of Juan de Fuca Ridge, northeast Pacific Ocean: Marine Geology, v. 17, no. 1, p. 1-19.

BARR, S. M.; CHASE, R. L., 1974, Geology of the northern end of Juan de Fuca Ridge and sea-floor spreading: Canadian Journal of Earth Sciences, v. 11, no. 10, p. 1384-1406.

BARR, S. M., see MCMANUS, D. A. [and others], 1972.

BASS, M. N., 1970, Variation of ocean ridge basalts with spreading rate [abstract]: Eos (American Geophysical Union Transactions), v. 51, no. 11, p. 762.

BATATIAN, L. D., see WAGNER, H. C. [and others], 1986.

BEASLEY, DAVID, see HARRIS, W. M. [and others], 1981.

BEASLEY, T. M.; CARPENTER, ROY; JENNINGS, C. D., 1982, Plutonium, 241Am and 137Cs ratios, inventories and vertical profiles in Washington and Oregon continental shelf sediments: Geochimica et Cosmochimica Acta, v. 46, no. 10, p. 1931-1946.

BEASLEY, T. M., see CARPENTER, ROY [and others], 1985.

BECK, M. E., JR., see RIDDIHOUGH, R. P. [and others], 1983.

BELL, G. L., 1967, Big potential oil basins offshore from west coast: Oilweek, v. 18, no. 19, p. 48-51, 53-56.

BENNETT, J. T., see CARPENTER, ROY [and others], 1981.

BENNETT, J. T., see CARPENTER, ROY [and others], 1982.

BENNETT, J. T., see NITTROUER, C. A. [and others], 1979.

BENNETT, L. C., JR., 1969, Structural studies of the continental shelf off Washington [abstract]: Eos (American Geophysical Union Transactions), v. 50, no. 2, p. 63.

BENNETT, L. C., JR.; ECHOLS, R. J., 1971, Shallow seismic stratigraphy on the continental shelf of Washington [abstract]: Eos (American Geophysical Union Transactions), v. 52, no. 5, p. 431.

BENNETT, L. C., JR.; GRIM, M. S., 1968, Investigation of the continental shelf structure off the coast of Washington [abstract]: American Geophysical Union Transactions, v. 49, no. 1, p. 209.

BENNETT, L. C., JR., see GRIM, M. S. [and others], 1968.

BENNETT, L. C., JR., see GRIM, M. S. [and others], 1969.

BENTON, J.; MCDOWELL, T.; SHEARER, C., 1979, Outer continental shelf oil and gas information program; Pacific index: U.S. Geological Survey Open-File Report 79-1327, 75 p.

BERG, J. W., JR.; EMILIA, D. A.; BALES, W. E., 1968, Magnetic studies off the Pacific Northwest coast [abstract]: Geological Society of America Special Paper 101, p. 288.

BERG, J. W., JR.; KING, J. M.; CARLSON, P. R., 1966, Seismic reflection studies of buried channels off the Columbia River: Ore Bin, v. 28, no. 8, p. 145-150.

BERG, J. W., JR., see EMILIA, D. A. [and others], 1966.

BERG, J. W., JR., see EMILIA, D. A. [and others], 1968.

BERGLUND, P. L.; CARSON, BOBB, 1978, Development of spaced cleavage in deep-sea mudstone [abstract]: Geological Society of America Abstracts with Programs, v. 10, no. 7, p. 365.

BERRY, M. J., see ELLIS, R. M. [and others], 1983.

BERRYHILL, H. L., JR., 1974, The worldwide search for petroleum offshore--A status report for the quarter century, 1947-72: U.S. Geological Survey Circular 694, 27 p.

BIBEE, L. D., see JACOBSON, R. S. [and others], 1987.

BINNEY, S. E., see PETERSON, C. D. [and others], 1987.

BISCHOFF, J. L., see BALLARD, R. D. [and others], 1984.

BISCHOFF, J. L., see CLAGUE, D. A. [and others], 1984.

BLACKSTOCK, C. G.; GAVIN, J. E., 1969, Cobb Seamount model: Marine Technology Society Journal, v. 3, no. 5, p. 59-62.

BLAISE, B.; BORNHOLD, B. D., 1986, Different sources for iron-rich smectite [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 1232.

BLANK, J. G.; DELANEY, J. R.; DES MARAIS, D. J., 1986, Carbon in basaltic glass from the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 1253.

BODVARSSON, GUNNAR see KORGEN, B. J. [and others], 1971.

BOGGS, SAM, JR., 1977, Geological oceanography considerations. In Massoglia, M. F., compiler, 1977, Conference/worksnop proceedings--Recommendations for baseline research in Washington and Oregon relative to offshore resource development: U.S. Bureau of Land Management, p. 125-129.

BOGGS, SAM, JR.; KOMAR, P. D., 1977, Geological oceanography. In Massoglia, M. F., compiler, 1977, Conference/workshop proceedings--Recommendations for baseline research in Washington and Oregon relative to offshore resource development: U.S. Bureau of Land Management, p. 145-158.

BOND, KEVIN see ZIETZ, ISIDORE [and others], 1986.

BONE, M. N., see WOLFGRAM, P. A. [and others], 1984.

BORGELD, J. C., see NITTROUER, C. A. [and others], 1977.

BORNHOLD, B. D.; BRANDON, M. T.; CLOWES, R. M.; CURRIE, R. G.; DAVIS, E. E.; HUSSONG, D. M.; HYNDMAN, R. D.; RIDDIHOUGH, R. P.; ROGERS, G. C.; YORATH, C. J., 1986, Recent acoustic studies of western Canadian continental margin [abstract]: American Association of Petroleum Geologists Bulletin, v. 70, no. 7, p. 915.

BORNHOLD, B. D., see ADSHEAD, J. D. [and others], 1985.

BORNHOLD, B. D., see BLAISE, B. [and others], 1986.

BORNHOLD, B. D., see DAVIS, E. E. [and others], 1986.

BORNHOLD, B. D., see HERZER, R. H. [and others], 1982.

BOSTROM, R. C., 1968, The ocean ridge system in the northeast Pacific: Pacific Geology, v. 1, p. 1-21.

BOSTROM, R. C., 1968, Oceanward spreading of the continental crust in the fjord region of northwest America: The Trend in Engineering, v. 20, no. 2, p. 4-9, 32.

BOUDREAU, M. L., see FEELY, R. A. [and others], 1984.

BOUMA, A. H., see NELSON, C. H. [and others], 1978.

BOUSE, R. M., see KADKO, D. [and others], 1983.

BRAISLIN, D. B.; HASTINGS, D. D.; SNAVELY, P. D., JR., 1971, Petroleum potential of western Oregon and Washington and adjacent continental margin. In Cram, I. H., editor, 1971, Future petroleum provinces of the United States--Their geology and potential: American Association of Petroleum Geologists Memoir 15, v. 229-238.

BRANDON,, M. T., see BORNHOLD, B. D. [and others], 1986.

BRANDON, M. T., see CLOWES, R. M. [and others], 1987.

BRANDON, M. T., see COWAN, D. S. [and others], 1986.

BRANDON, M. T., see DAVIS, E. E. [and others], 1986.

BRANDON, M. T., see JOHNSON, S. Y. [and others], 1984.

BRANDON, M. T., see NIEM, A. R. [and others], 1984.

BRINKHURT, R., see APPELGATE, B. [and others], 1986.

BUDINGER, T. F., 1957, Geology, biology, and hydrography of Cobb Seamount: University of Washington Master of Science thesis, 54 p.

BUDINGER, T. F., 1967, Cobb Seamount: Deep-Sea Research, v. 14, no. 2, p. 191-201.

BURNS, R. E., see MERRILL, R. T. [and others], 1972.

BUTLER, B. F., 1982, An examination of the application of the draft convention on the Law of the Sea to prospective polymetallic sulfide mining at ocean rift zones: University of Washington Master of Marine Affairs thesis, 78 p.

BUTTERFIELD, D., see APPELGATE, B. [and others], 1986.

BYERLY, G. R., see MELSON, W. G. [and others], 1976.

BYRNE, J. V., 1963, Geomorphology of the continental terrace off the northern coast of Oregon: Ore Bin, v. 25, no. 12, p. 201-209.

BYRNE, J. V., see NELSON, C. H. [and others], 1969.

BYRNE, J. V., see NELSON, C. H. [and others], 1970.

BYRNE, J. V., see OSTERBERG, C. L. [and others], 1963.

CACCHIONE, D. A., see GARDNER, J. V. [and others], 1986.

CACCHIONE, D. A., see HAMPTON, M. A. [and others], 1986.

CALIFORNIA MINING JOURNAL, 1983, Juan de Fuca Ridge minerals analyzed and separated:

California Mining Journal, v. 53, no. 4, p. 62-63.

CALVERT, S. E., see PRICE, N. B. [and others], 1970.

CAMPBELL, J. F., see HOLMES, M. L. [and others]. 1984.

CAMPBELL, J. F., see JOHNSON, H. P. [and others], 1984.

CANADIAN AMERICAN SEAMOUNT EXPEDITION, 1985, Hydrothermal vents on an axis seamount of the Juan de Fuca ridge: Nature, v. 313, no. 5999, p. 212-214.

CAREY, A. G., JR., see GRIGGS, G. B. [and others], 1969.

CAREY, A. G., JR., see GROSS, M. G. [and others], 1972.

CARLSON, P., see HOLMES, M. L. [and others], 1984.

CARLSON, P. R., 1968, Marine geology of Astoria submarine canyon: Oregon State University Doctor of Philosophy thesis, 259 p.

CARLSON, P. R.; NELSON, C. H., 1969, Sediments and sedimentary structures of the Astoria submarine canyon-fan systems, northeast Pacific: Journal of Sedimentary Petrology, v. 39, no. 4, p. 1269-1282.

CARLSON, P. R., see BERG, J. W., JR. [and others], 1966.

CARLSON, P. R., see FIELD, M. E. [and others], 1983.

CARLSON, P. R., see NELSON, C. H. [and others], 1968.

CARLSON, P. R., see NELSON, C. H. [and others], 1970.

CARLSON, P. R., see NELSON, C. H. [and others], 1978.

CARLSON, R. L., 1976, Cenozoic plate convergence in the vicinity of the Pacific Northwest--A synthesis and assessment of plate tectonics in the northeastern Pacific: University of Washington Doctor of Philosophy thesis, 129 p.

CARLSON, R. L., 1976, Cenozoic plate convergence in the vicinity of the Pacific Northwest--A synthesis and assessment of plate tectonics in the northeastern Pacific [abstract]: Dissertation Abstracts International, v. 37, no. 3, Section B, p. 1155-B.

CARLSON, R. L., 1977, Late Cenozoic evolution of the Juan de Fuca and Gorda Rises [abstract]: Eos (American Geophysical Union Transactions), v. 58, no. 12, p. 1127.

CARLSON, R. L., 1980, Clockwise rotations of the Juan de Fuca Ridge and Gorda Rise--A case study [abstract]: Eos (American Geophysical Union Transactions), v. 61, no. 46, p. 1105.

CARLSON, R. L., 1981, Late Cenozoic rotations of the Juan de Fuca Ridge and the Gorda Rise--A case study: Tectonophysics, v. 77, no. 3-4, p. 171-188.

CARPENTER, ROY see BEASLEY, T. M. [and others], 1982.

CARPENTER, ROY; BEASLEY, T. M., 1985, Plutonium, 241Am, 137Cs and 210Pb activities in continental slope sediments off Washington [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 51, p. 1306.

CARPENTER, ROY; BENNETT, J. T.; PETERSON, M. L., 1981, 210Pb activities in and fluxes to sediments of the Washington continental slope and shelf: Geochimica et Cosmochimica Acta, v. 45, no. 7, p. 1155-1172.

CARPENTER, ROY; PETERSON, M. L.; BENNETT, J. T., 1982, 210Pb-derived sediment accumulation and mixing rates for the Washington continental slope: Marine Geology, v. 48, no. 1-2, p. 135-164.

CARPENTER, ROY, see NITTROUER, C. A. [and others], 1976.

CARPENTER, ROY, see NITTROUER, C. A. [and others], 1979.

CARPENTER, ROY, see PRAHL, F. G. [and others], 1983.

CARPENTER, ROY, see PRAHL, F. G. [and others], 1984.

CARPENTER, ROY, see TWISS, E. S. [and others], 1973.

CARSON, BOBB, 1971, Stratigraphy and depositional history of Quaternary sediments in northern Cascade Basin and Juan de Fuca abyssal plain, northeast Pacific Ocean: University of Washington Doctor of Philosophy thesis, 249 p.

CARSON, BOBB, 1971, Stratigraphy and depositional history of Quaternary sediments in northern Cascadia Basin and Juan de Fuca abyssal plain, northeast Pacific Ocean [abstract]: Dissertation Abstracts International, v. 32, no. 10, Section B, p. 5955-B.

CARSON, BOBB, 1972, Selective turbidite deposition and dispersal with waning turbidity current activity [abstract]: Eos

(American Geophysical Union Transactions), v. 53, no. 4, p. 422.

CARSON, BOBB, 1974, Sediment modification related to subduction--Washington-Oregon continental margin [abstract]: Eos (American Geophysical Union Transactions), v. 55, no. 12, p. 1138.

CARSON, BOBB, 1974, Tectonically induced consolidation of deep-sea sediments at a subducting continental margin [abstract]: Eos (American Geophysical Union Transactions), v. 55, no. 4, p. 299.

CARSON, BOBB, 1975, Carbonate dissolution in "offscraped" deep-sea sediments--An integral part of the subduction process? [abstract]: Eos (American Geophysical Union Transactions), v. 56, no. 6, p. 370-371.

CARSON, BOBB, 1976, Tectonic consolidation of deep-sea sediments--Preliminary results of laboratory simulation [abstract]: Geological Society of America Abstracts with Programs, v. 8. no. 6, p. 803.

CARSON, BOBB, 1977, Tectonically induced deformation of deep-sea sediments off Washington and northern Oregon--Mechanical consolidation: Marine Geology, v. 24, no. 4, p. 289-307.

CARSON, BOBB; ARCARO, N. P., 1983, Control of clay-mineral stratigraphy by selective transport in late Pleistocene-Holocene sediments of northern Cascadia Basin-Juan de Fuca abyssal plain--Implications for studies of clay-mineral provenance: Journal of Sedimentary Petrology, v. 53, no. 2, p. 395-406.

CARSON, BOBB; BAKER, E. T., 1983, Processes of offshore sediment dispersal around a submarine canyon [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 52, p. 1060.

CARSON, BOBB; BAKER, E. T.; HICKEY, B. M.; NITTROUER, C. A.; DEMASTER, D. J.; THORBJARNARSON, K. W.; SNYDER, G. W., 1986, Modern sediment dispersal and accumulation in Quinault submarine canyon--A summary: Marine Geology, v. 71, no. 1/2, p. 1-13.

CARSON, BOBB; BAKER, E. T.; NITTROUER, C. A.; DEMASTER, D. J., 1982, Modern sediment transport and accumulation in Quinault submarine canyon, Washington continental slope [abstract]: International Congress on Sedimentology, 11th, p. 97.

CARSON, BOBB; MCMANUS, D. A., 1968, Juan de Fuca submarine canyon--A study of continental slope development [abstract]: Geological Society of America Special Paper 115, p. 34.

CARSON, BOBB; MCMANUS, D. A., 1969, Seismic reflection profiles across Juan de Fuca canyon: Journal of Geophysical Research, v. 74, no. 4, p. 1052-1060.

CARSON, BOBB; MCMANUS, D. A., 1969, The stratigraphy of northern Cascadia Basin--A statistical evaluation [abstract]: Geological Society of America Abstracts for 1969, Part 7, p. 30.

CARSON, BOBB; MCMANUS, D. A., 1971, Analysis of turbidite correlation in Cascadia Basin, northeast Pacific Ocean: Deep-Sea Research and Oceanographic Abstracts, v. 18, no. 6, p. 593-604.

CARSON, BOBB; RITGER, S. D.; SUESS, ERWIN, 1984, Precipitation of carbonate crust associated with subduction-induced porewater expulsion--Washington-Oregon continental slope [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1089-1090.

CARSON, BOBB; SNYDER, G. W.; BAKER, E. T., 1984, Sediment dispersal and accumulation in Quinault Canyon--Introduction and implications of particle size analysis [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 14, p. 134.

CARSON, BOBB; YUAN, J.-W., 1972, Pattern of deep-sea sediment deformation at a compressive continental margin [abstract]: Geological Society of America Abstracts with Programs, v. 4, no. 7, p. 467.

CARSON, BOBB; YUAN, J.-W.; MYERS, P. B., JR.; BARNARD, W. D., 1974, Initial deep-sea sediment deformation at the base of the Washington continental slope--A response to subduction: Geology, v. 2, no. 11, p. 561-564.

CARSON, BOBB, see ARCARO, N. P. [and others], 1978.

CARSON, BOBB, see BERGLUND, P. L. [and others], 1978.

CARSON, BOBB, see HEALY, M. J. [and others], 1983.

CARSON, BOBB, see MCMANUS, D. A. [and others], 1972.

CARSON, BOBB, see RITGER, S. D. [and others], 1987.

CARSON, BOBB, see SCAMMAN, R. L. [and others], 1981.

CARSON, BOBB, see SNYDER, G. W. [and others], 1982.

CARSON, BOBB, see SNYDER, G. W. [and others], 1983.

CARSON, BOBB, see SNYDER, G. W. [and others], 1986.

CARSON, BOBB, see STOKKE, P. R. [and others], 1974.

CASM RESEARCH GROUP (CHASE, R. L.; DELANEY, J. R.; JOHNSON, H. P.; JUNIPER, S. K.; KARSTEN, J. L.; LUPTON, J. E.; SCOTT, S. D.; TUNNICLIFFE, VERENA), 1983, North caldera hydrothermal vent field, Axial seamount Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 45, p. 723.

CASSELL, J. K., see ZIEGLAR, D. L. [and others], 1978.

CHASE, R. L., see BARR, S. M. [and others], 1974.

CHASE, R. L., see CASM RESEARCH GROUP [and others], 1983.

CHASE, R. L., see DELANEY, J. R. [and others], 1983.

CHASE, R. L., see JOHNSON, H. P. [and others], 1983.

CHASE, R. L., see MICHAEL, P. J. [and others], 1985.

CHASE, R. L., see RIDDIHOUGH, R. P. [and others], 1983.

CHASE, R. L., see SCHILLING, J.-G. [and others], 1982.

CHASE, R. L., see SCOTT, S. D. [and others], 1986.

CHASE, R. L., see TUNNICLIFFE, VERENA [and others], 1983.

CHASE, R. L., see YORATH, C. J. [and others], 1978.

CHASE, T. E.; HOLMES, M. L.; WILDE, P.; NORMARK, W. R., 1977, Compilation of marine geologic and oceanographic data off the western United States; Cascadia sheet [abstract]: Geological Society of America Abstracts with Programs, v. 9, no. 7, p. 926.

CHASE, T. E.; NORMARK, W. R.; WILDE, P., 1976, Compilations of marine geologic and oceanographic data off the west coast of the United States [abstract]: Geological Society of America Abstracts with Programs, v. 8, no. 6, p. 809.

CHASE, T. E.; WILDE, P.; NORMARK, W. R.; MILLER, C. P.; SEEKINS, B. A.; YOUNG, J. D., 1981, Offshore topography of the western United States between 32 degrees and 49 degrees north latitudes: U.S. Geological Survey Open-File Report 81-443, 2 sheets microfiche.

CHASE, T. E., see WILDE, P. [and others], 1977.

CHASTAIN, CHARLETTE, see NAYUDU, Y. R. [and others], 1968.

CHASTAIN, CHARLETTE, see NAYUDU, Y. R. [and others], 1969.

CHEN, J.; NIENABER, W.; DOSSO, H. W., 1986, Electromagnetic induction in the Pacific north-west coastal region [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 919.

CHEN, J. H.; WASSERBURG, G. H., 1985, U, Th and Pb isotopes in hydrothermal fluids from the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 929.

CHIBURIS, E. F., see DEHLINGER, PETER [and others], 1972.

CHRISTENSEN, N. I., 1970, Compressional-wave velocities in basalts from the Juan de Fuca Ridge: Journal of Geophysical Research, v. 75, no. 14, p. 2773-2775.

CHRISTENSEN, N. I., 1970, Oceanic crustal composition in the northeast Pacific [abstract]: Eos (American Geophysical Union Transactions), v. 51, no. 3, p. 208.

CHRISTIE, D. M., see SINTON, J. M. [and others], 1982.

CHURCH, S. E., 1972, Trace element abundances in ocean sediments and altered basalts --Their implications for andesite genesis [abstract]: Eos (American Geophysical Union Transactions), v. 53, no. 4, p. 546.

CHURCH, S. E., 1973, The isotopic composition of lead in ocean ridge basalts and seamounts from the Juan de Fuca-Gorda Rise system [abstract]: Eos (American Geophysical Union Transactions), v. 54, no. 3, p. 133.

CHURKIN, MICHAEL, JR., 1974, Paleozoic marginal ocean basin-volcanic arc systems in the Cordilleran foldbelt. In Dott, R. H., Jr.; Shaver, R. H., editors, 1974, Modern and ancient geosynclinal sedimentation: Society of Economic Paleontologists and Mineralogists Special Publication 19, p. 174-192.

CLAGUE, D. A.; BISCHOFF, J. L.; HOWELL, D. A., 1984, Nonfuel mineral resources of the Pacific Exclusive Economic Zone. In Oceans Conference, 1984, 84 oceans; Conference record--Industry, government, education... designs for the future: Marine Technology Society; IEEE, p. 438-443.

CLAGUE, D. A., see DELANEY, J. R. [and others], 1982.

CLAGUE, D. A., see DUNCAN, R. A. [and others], 1985.

CLAGUE, D. A., see EABY, JACQUELINE [and others], 1984.

CLAGUE, D. A., see MURNANE, RICHARD [and others], 1982.

CLOWES, R. M.; BRANDON, M. T.; GREEN, A. G.; YORATH, C. J.; SUTHERLAND BROWN, A.; KANASEWICH, E. R.; SPENCER, C., 1987, LITHOPROBE--Southern Vancouver Islands--Cenozoic subduction complex imaged by deep seismic reflections: Canadian Journal of Earth Sciences, v. 24, no. 1, p. 31-51.

CLOWES, R. M.; SPENCE, G. D.; WALDRON, D. A.; ELLIS, R. M., 1983, VISP II--Lithospheric structure across the Juan de Fuca/America plate margin [abstract]: Geological Association of Canada Program with Abstracts, v. 8, p. A13.

CLOWES, R. M., see AU, D. [and others], 1979.

CLOWES, R. M., see BORNHOLD, B. D. [and others], 1986.

CLOWES, R. M., see DAVIS, E. E. [and others], 1986.

CLOWES, R. M., see ELLIS, R. M. [and others], 1983.

CLOWES, R. M., see WHITE, W. R. H. [and others], 1983.

COCHRANE, G. R.; LEWIS, B. T. R., 1984, Comparison of structures in underthrusting and overthrusting lower slope sediments of the Washington-Oregon convergent margin [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1089.

COCHRANE, G. R., see LEWIS, B. T. R. [and others], 1984.

COLE, M. R.; ARMENTROUT, J. M., 1979, Neogene paleogeography of the western United States. In Armentrout, J. M.; Cole, R. M.; Ter Best, Harry, Jr., editors, 1979, Cenozoic paleogeography of the western United States: Society of Economic Paleontologists and Mineralogists Pacific Section, Pacific Coast Paleogeography Symposium 3, p. 297-323.

COLLIER, R., see KADKO, D. [and others], 1986.

CONNARD, GERRY; COUCH, R. W.; KEELING, KENNETH; ROY, J.; TROSETH, S., COMPILERS, 1984, Abyssal plain and continental net-objective sedimentary thicknesses. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 7.

CONNARD, GERRY; COUCH, R. W.; NESS, G.; TROSETH, S., COMPILERS, 1984, Magnetic anomaly identifications. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 5.

CONNARD, GERRY; COUCH, R. W.; PITTS, G. S.; ROY, J.; GEMPERLE, MICHAEL; TROSETH, S., COMPILERS, 1984, Magnetic total intensity anomalies. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 4.

CONNARD, GERRY; COUCH, R. W.; PITTS, G. S.; ROY, J.; KEELING, KENNETH; PITTS, P.; WATKINS, R. ; PEPER, J. S., COMPILERS, 1984, Free-air gravity anomalies. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 2.

CONNARD, GERRY; COUCH, R. W.; PITTS, G. S.; TROSETH, S., COMPILERS, 1984, Bathymetry and topography. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science Internation [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 1.

CONNARD, GERRY; COUCH, R. W.; PITTS, G. S.; TROSETH, S., COMPILERS, 1984, Simple Bouguer gravity anomalies. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 3.

CONNARD, GERRY; COUCH, R. W.; ROY, J.; PITTS, G. S.; KULM, S., COMPILERS, 1984, Heat flow. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 6.

CONNARD, GERRY see COUCH, R. W. [and others], 1980.

COOPER, S. C., see ENBYSK, B. J. [and others], 1965.

COUCH, R. W., 1969, Gravity and structures of the continental margin off Washington and British Columbia [abstract]: Eos (American Geophysical Union Transactions), v. 50, no. 4, p. 186.

COUCH, R. W., 1969, Gravity and structures of the crust and subcrust in the northeast Pacific Ocean west of Washington and British Columbia: Oregon State University Doctor of Philosophy thesis, 179 p.

COUCH, R. W., 1970, Gravity and structures of the crust and subcrust in the northeast Pacific Ocean west of Washington and British Columbia [abstract]: Dissertation Abstracts International, v. 30, no. 11, Section B, p. 5107-B-5108-B.

COUCH, R. W., 1972, Continental margin structure and tectonism in the Pacific Northwest [abstract]: Oregon Academy of Science Proceedings, v. 8, p. 42.

COUCH, R. W., 1972, Gravity and structure of the continental margin of the northeast Pacific Ocean [abstract]: Geological Society of America Abstracts with Programs, v. 4, no. 5, p. 315-316.

COUCH, R. W.; CONNARD, GERRY; KIENLE, C. R., 1980, Sediment thicknesses and tectonic lineations of the northern Juan de Fuca plate and Washington continental margin [abstract]: Geological Society of America Abstracts with Programs, v. 12, no. 3, p. 102.

COUCH, R. W.; VICTOR, LINDA; KEELING, KENNETH, 1974, Coastal and offshore earthquakes of the Pacific Northwest between 39 degrees and 49 degrees 10 minutes N. latitude and 123 degrees and 131 degrees W. longitude: Oregon State University School of Oceanography, 67 p.

COUCH, R. W., see CONNARD, GERRY [and others], 1984.

COUCH, R. W., see DEHLINGER, PETER [and others], 1966.

COUCH, R. W., see DEHLINGER, PETER [and others], 1969.

COUCH, R. W., see DEHLINGER, PETER [and others], 1970.

COUCH, R. W., see DEHLINGER, PETER [and others], 1971.

COUSENS, B., see SCHILLING, J.-G. [and others], 1982.

COWAN, D. S., 1981, Structural styles in Mesozoic melanges along the Pacific margin of North American and their relation to subduction tectonics [abstract]: Geological Society of America Abstracts with Programs, v. 13, no. 7, p. 432.

COWAN, D. S., 1984, Continent-ocean transect B3--Active spreading, sediment offscraping, and accretionary tectonics, Juan de Fuca Ridge to North Cascades [abstract]: Geological Society of America Abstracts with Programs, v. 16, no. 6, p. 478.

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt. In Cowan, D. S.; Potter, C. J., compilers; and others, 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt: Geological Society of America Centennial Continent/Ocean Transect 9, 12 p.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt: Geological Society of America Centennial Continent/Ocean Transect 9, 3 sheets, scale 1:500,000, with 12 p. text.

COWAN, D. S., see POTTER, C. J. [and others], 1982.

COWEN, J., see APPELGATE, B. [and others], 1986.

COWEN, J. P., see MASSOTH, G. J. [and others], 1985.

CRANE, KATHLEEN; AIKMAN, FRANK, III; EMBLEY, R. W.; HAMMOND, S. R.; MALAHOFF, ALEXANDER; LUPTON, J. E., 1985, The distribution of geothermal fields on the Juan de Fuca Ridge: Journal of Geophysical Research, v. 90, no. B1, p. 727-744.

CRANE, KATHLEEN, see MALAHOFF, ALEXANDER [and others], 1982.

CREAGER, J. S.; STERNBERG, R. W., 1972, Some specific problems in understanding bottom sediment distribution and dispersal on the continental shelf [with discussion]. In Swift, D. J. P.; Duane, D. B.; Pilkey, O. H., 1972, Shelf sediment transport--Processes and pattern: Dowden, Hutchinson and Ross, p. 347-362.

CREAGER, J. S., see GROSS, M. G. [and others], 1963.

CREAGER, J. S., see STERNBERG, R. W. [and others], 1977.

CREAGER, J. S., see STERNBERG, R. W. [and others], 1979.

CRECELIUS, E. A., see HEALY, M. L. [and others], 1977.

CROSSON, E. L., see CROSSON, R. S. [and others], 1986.

CROSSON, R. S., 1986, Earthquake hazard investigations in the Pacific Northwest. In Jacobson, M. L.; Rodriguez, T. R., compilers, 1986, National Earthquake Hazards Reduction Program, summaries of technical reports, volume XXIII: U.S. Geological Survey Open-File Report 87-63, p. 53-55.

CROSSON, R. S., 1986, Where is the subducting slab beneath the Pacific Northwest? [abstract]: Earthquake Notes, v. 57, no. 1, p. 9.

CROSSON, R. S.; CROSSON, E. L., 1986, Preliminary analysis of Juan de Fuca plate seismicity using the Washington Regional Seismograph Network [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 1084.

CROSSON, R. S., see KELLY, S. M. [and others], 1984.

CROSSON, R. S., see MCCLAIN, K. J. [and others], 1981.

CROSSON, R. S., see POTTER, C. J. [and others], 1982.

CROWELL, J. C., 1983, Active tectonism along the continental margin of the conterminous United States [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 45, p. 854.

CROWELL, J. C., 1986, Active tectonics along the western continental margin of the conterminous United States. In Wallace, Robert E., chairman, 1986, Active tectonics: National Academy Press Studies in Geophysics, p. 20-29.

CRUICKSHANK, M. J., 1974, Mineral resources potential of continental margins. In Burk, C.A.; Drake, C.L., editors, 1974, The geology of continental margins: Springer-Verlag, p. 965-1000.

CURL, H. C., JR., see FEELY, R. A. [and others], 1984.

CURL, H. C., JR., see LEWISON, M. A. [and others], 1986.

CURL, H. C., JR., see MASSOTH, G. J. [and others], 1982.

CURL, H. C., JR., see MASSOTH, G. J. [and others], 1983.

CURRIE, R. G.; DAVIS, E. E.; HAMMOND, S. R.; HUSSONG, D. M.; KARSTEN, J. L.; MALAHOFF, ALEXANDER; RIDDIHOUGH, R. P.; SEEMANN, D. A., 1984, Co-operative systematic surveys over the northern Juan de Fuca Ridge system, 1983--A progress report [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 17, p. 329.

CURRIE, R. G., see BORNHOLD, B. D. [and others], 1986.

CURRIE, R. G., see DAVIS, E. E. [and others], 1983.

CURRIE, R. G., see DAVIS, E. E. [and others], 1984.

CURRIE, R. G., see DAVIS, E. E. [and others], 1985.

CURRIE, R. G., see DAVIS, E. E. [and others], 1986.

CURRIE, R. G., see HAMMOND, S. R. [and others], 1983.

CURRIE, R. G., see JOHNSON, H. P. [and others], 1983.

CURRIE, R. G., see KARSTEN, J. L. [and others], 1986.

CURRIE, R. G., see SAWYER, B. S. [and others], 1984.

CURRIE, R. G., see YORATH, C. J. [and others], 1984.

CUTSHALL, N. H., 1967, Chromium-51 in the Columbia River and adjacent Pacific Ocean: Oregon State University Doctor of Philosophy thesis, 64 p.

CUTSHALL, N. H., 1967, Chromium-51 in the Columbia River and adjacent Pacific Ocean [abstract]: Dissertation Abstracts International, v. 28, no. 3, Section B, p. 1040-B.

CUTSHALL, N. H.; LARSEN, I. L.; OLSEN, C. R.; NITTROUER, C. A.; DEMASTER, D. J., 1983, Columbia River sediment in Quinault Canyon--Implications for deep ocean waste disposal [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 52, p. 1060.

CUTSHALL, N. H.; LARSEN, I. L.; OLSEN, C. R.; NITTROUER, C. A.; DEMASTER, D. J., 1986, Columbia River sediment in Quinault Canyon, Washington--Evidence from artificial radionuclides: Marine Geology, v. 71, no. 1/2, p. 125-136.

CUTSHALL, N. H.; RENFRO, W. C.; EVANS, D. W.; JOHNSON, V. G., 1971, Zinc-65 in Oregon-Washington continental shelf sediments. In Nelson, D. J., editor, 1971, Radionuclides in ecosystems; proceedings of the 3rd National Symposium on Radioecology: Oak Ridge National Laboratory CONF-710501-P2, p. 694-702.

CUTSHALL, N. H., see NITTROUER, C. A. [and others], 1983.

DANNER, W. R., 1970, Paleontologic and stratigraphic evidence for and against sea floor spreading and opening and closing oceans in the Pacific Northwest [abstract]: Geological Society of America Abstracts with Programs, v. 2, no. 2, p. 84-85.

DAUPHIN J. P., 1980, Size distribution of chemically extracted quartz used to characterize fine-grained sediments: Journal of Sedimentary Petrology, v. 50, no. 1, p. 205-214.

DAUPHIN, J. P.; MOORE, T. C., JR.; HEATH, G. R., 1973, Rates of accumulation of quartz, opal, organic carbon and calcium carbonate in Cascadia Basin, northeast Pacific [abstract]: Geological Society of America Abstracts with Programs, v. 5, no. 7, p. 591.

DAVIES, T. A., 1985, Mesozoic and Cenozoic sedimentation in the Pacific Ocean basin. Chapter 2. In Nairn, A. E. M.; Stehli, F. G.; Uyeda, Seiya, editors, 1985, The Pacific Ocean: Plenum Press, The Ocean Basins and Margins, v. 7A, p. 65-88.

DAVIS, E. E., 1975, The northern Juan de Fuca Ridge--A geophysical investigation of an active sea floor spreading center: University of Washington Doctor of Philosophy thesis, 184 p.

DAVIS, E. E., 1975, The northern Juan de Fuca Ridge--A geophysical investigation of an active sea floor spreading center [abstract]: Dissertation Abstracts International, v. 37, no. 2, Section B, p. 667-B-668-B.

DAVIS, E. E., 1982, Evidence for extensive basalt flows on the sea floor: Geological Society of America Bulletin, v. 93, no. 10, p. 1023-1029.

DAVIS, E. E.; CURRIE, R. G.; HUSSONG, D. M.; RENARD, V.; KOSALOS, J., 1983, High altitude side-scan imagery over the northern Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 45, p. 856-857.

DAVIS, E. E.; CURRIE, R. G.; RIDDIHOUGH, R. P.; RYAN, W. B. F.; KASTENS, K.; HUSSONG, D. M.; HAMMOND, S. R.; MALAHOFF, ALEXANDER, 1984, Geological mapping of the northern Juan de Fuca and Explorer Ridges using SeaMARC I, SeaMARC II, and Seabeam acoustic imaging [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1110.

DAVIS, E. E.; CURRIE, R. G.; RIDDIHOUGH, R. P.; SAWYER, B. S., 1985, A new look at the Juan de Fuca Ridge--High-resolution bathymetry and side-scan acoustic imagery: Geos, v. 14, no. 2, p. 10-15.

DAVIS, E. E.; CURRIE, R. G.; VILLINGER, H.; GOODFELLOW, W. D.; HUSSONG, D. M.; RYAN, W. B. F.; HAMMOND, S. R., 1986, Regional acoustic imagery and detailed geophysical studies of northern Juan de Fuca Ridge [abstract]: American Association of Petroleum Geologists Bulletin, v. 70, no. 7, p. 919.

DAVIS, E. E.; KARSTEN, J. L., 1985, An explanation for the asymmetric distribution of seamounts on the flanks of the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 18, p. 403.

DAVIS, E. E.; LISTER, C. R. B., 1972, Crustal structure of the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 53, no. 4, p. 518.

DAVIS, E. E.; LISTER, C. R. B., 1977, Heat flow measured over the Juan de Fuca Ridge--Evidence for widespread hydrothermal circulation in a highly heat transportive crust: Journal of Geophysical Research, v. 82, no. 30, p. 4845-4860.

DAVIS, E. E.; RIDDIHOUGH, R. P., 1982, The Quaternary history of the northern Juan de Fuca Ridge system [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 45, p. 1153.

DAVIS, E. E.; YORATH, C. J.; HYNDMAN, R. D.; CURRIE, R. G.; BORNHOLD, B. D.; BRANDON, M. T.; CLOWES, R. M., 1986, The deformation front of the northern Cascadia subduction zone in plan and cross section [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 906-907.

DAVIS, E. E., see ADSHEAD, J. D. [and others], 1985.

DAVIS, E. E., see BORNHOLD, B. D. [and others], 1986.

DAVIS, E. E., see CURRIE, R. G. [and others], 1984.

DAVIS, E. E., see HAMMOND, S. R. [and others], 1983.

DAVIS, E. E., see JOHNSON, H. P. [and others], 1983.

DAVIS, E. E., see KARSTEN, J. L. [and others], 1986.

DAVIS, E. E., see NOBES, D. C. [and others], 1985.

DAVIS, E. E., see NOBES, D. C. [and others], 1986.

DAVIS, E. E., see RIDDIHOUGH, R. P. [and others], 1983.

DAVIS, E. E., see SAWYER, B. S. [and others], 1984.

DAVIS, E. E., see VILLINGER, H. [and others], 1984.

DAVIS, E. E., see VILLINGER, H. [and others], 1986.

DAVIS, E. E., see YORATH, C. J. [and others], 1984.

DEACON, R. J.; NEWTON, V. C., JR., 1965, Review of coastal stratigraphy of Oregon and Washington with comments on 1965 activity [abstract]: American Association of Petroleum Geologists Bulletin, v. 49, no. 7, p. 1083.

DEBEVOISE, A. E.; TAGHON, G. L., 1986, RNA /DNA ratios of a hydrothermal vent vestimentiferan--Evidence for between-vent variation in growth rates [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 1009.

DEBEVOISE, A. E., see APPELGATE, B. [and others], 1986.

DECHARON, A., see APPELGATE, B. [and others], 1986.

DEHLINGER, PETER, 1969, Evidence regarding the development of Juan de Fuca and Gorda ridges in the northeast Pacific Ocean: New York Academy of Sciences Transactions, series 2, v. 31, no. 4, p. 379-403.

DEHLINGER, PETER, 1969, Tectonic processes in the Juan de Fuca and Gorda ridges, and their implications for global tectonics [abstract]: Eos (American Geophysical Union Transactions), v. 50, no. 4, p. 186.

DEHLINGER, PETER; CHIBURIS, E. F., 1972, Gravity at sea: Marine Geology, v. 12, no. 1, p. 1-41.

DEHLINGER, PETER; COUCH, R. W., 1969, Synthesis of geophysical results in the Juan de Fuca and Gorda Ridge areas (northeast Pacific Ocean) [abstract]: Eos (American Geophysical Union Transactions), v. 50, no. 4, p. 186.

DEHLINGER, PETER; COUCH, R. W., 1971, Gravity investigations west of the coasts of Oregon, Washington, and northern California [abstract]. In National Academy of Sciences Upper Mantle Committee, 1971, Upper Mantle Project; United States program --Final report: National Academy of Sciences, p. 232-233.

DEHLINGER, PETER; COUCH, R. W.; GEMPERLE, MICHAEL; RINEHART, W. A., 1966, Gravity investigations in the north Pacific Ocean [abstract]: Pacific Science Congress, 11th, Proceedings, v. 3, p. 7.

DEHLINGER, PETER; COUCH, R. W.; MCMANUS, D. A.; GEMPERLE, MICHAEL, 1970, Northeast Pacific structure. Chapter 4 In Maxwell, A. E., editor, 1970, The sea--Ideas and observations on progress in the study of the seas; Vol. 4, New concepts of sea floor evolution; Part II, Regional observations, concepts: Wiley Interscience, p. 133-187.

DELACH, M. N., see HORN, D. R. [and others], 1968.

DELACH, M. N., see HORN, D. R. [and others], 1969.

DELACH, M. N., see HORN, D. R. [and others], 1972.

DELANEY, J. R., 1983, Studies of the Juan de Fuca Ridge. In Hatem, M. B., editor, 1983, Marine polymetallic sulfides--A national overview and future needs; workshop procedings, January 19-20, 1983: University of Maryland, Maryland Sea Grant Publication UM-SG-TS-83-04, p. 63-66.

DELANEY, J. R.; JOHNSON, H. P.; KARSTEN, J. L., 1981, The Juan de Fuca Ridge--Hot spot --Propagating rift system--New tectonic, geochemical, and magnetic data [abstract]: Eos (American Geophysical Union Transactions), v. 62, no. 37, p. 671.

DELANEY, J. R.; JOHNSON, H. P.; KINGSTON, M. J., 1983, Sulfide samples from the Juan de Fuca Ridge at 47 degrees 57' N and 129 degrees 06' W [abstract]: Geological Association of Canada Program with Abstracts, v. 8, p. A17.

DELANEY, J. R.; KARSTEN, J. L.; CLAGUE, D. A., 1982, Geochemistry of Juan de Fuca Ridge basaltic glasses [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 45, p. 1147.

DELANEY, J. R.; KARSTEN, J. L.; HAMMOND, S. R., 1986, Petrology and tectonics of the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 16, p. 360.

DELANEY, J. R.; KARSTEN, J. L.; JOHNSON, H. P.; CHASE, R. L.; SCOTT, S. D.; TUNNICLIFFE, VERENA; HAMMOND, S. R., 1983, Structural control of hydrothermal vents and sulfide structures on the 'Axial seamount,' Juan de Fuca [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 45, p. 889.

DELANEY, J. R.; MCDUFF, R. E.; LUPTON, J. E., 1984, Hydrothermal fluid temperatures of 400-degrees C on the Endeavour segment, northern Juan de Fuca [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 973.

DELANEY, J. R., see BLANK, J. G. [and others], 1986.

DELANEY, J. R., see CASM RESEARCH GROUP [and others], 1983.

DELANEY, J. R., see DIXON, J. E. [and others], 1986.

DELANEY, J. R., see EABY, JACQUELINE [and others], 1984.

DELANEY, J. R., see HAMMOND, S. R. [and others], 1985.

DELANEY, J. R., see JOHNSON, H. P. [and others], 1980.

DELANEY, J. R., see JOHNSON, H. P. [and others], 1982.

DELANEY, J. R., see JOHNSON, H. P. [and others], 1983.

DELANEY, J. R., see JONES, C. J. [and others], 1981.

DELANEY, J. R., see KADKO, D. [and others], 1983.

DELANEY, J. R., see KARSTEN, J. L. [and others], 1982.

DELANEY, J. R., see KARSTEN, J. L. [and others], 1985.

DELANEY, J. R., see KARSTEN, J. L. [and others], 1986.

DELANEY, J. R., see KINGSTON, M. J. [and others], 1983.

DELANEY, J. R., see LIIAS, R. A. [and others], 1981.

DELANEY, J. R., see LUPTON, J. E. [and others], 1981.

DELANEY, J. R., see LUPTON, J. E. [and others], 1984.

DELANEY, J. R., see THE MERGE GROUP [and others], 1984.

DELANEY, J. R., see PALMER, JEB [and others], 1987.

DELANEY, J. R., see SCHILLING, J.-G. [and others], 1982.

DELANEY, J. R., see SILVER, L. A. [and others], 1983.

DELANEY, J. R., see TIVEY, M. K. [and others], 1985.

DELLAGIARINO, GEORGE, 1986, United States outer continental shelf basins--Maps and descriptions: U.S. Minerals Management Service, 80 p., 5 plates.

DEMASTER, D. J.; HOFFMAN, P. A.; NITTROUER, C. A.; THORBJARNARSON, K. W., 1983, Th-234 and Pb-210 fluxes from particle traps in Quinault Submarine Canyon, Washington [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 52, p. 1060.

DEMASTER, D. J., see CARSON, BOBB [and others], 1982.

DEMASTER, D. J., see CARSON, BOBB [and others], 1986.

DEMASTER, D. J., see CUTSHALL, N. H. [and others], 1983.

DEMASTER, D. J., see CUTSHALL, N. H. [and others], 1986.

DEMASTER, D. J., see NITTROUER, C. A. [and others], 1983.

DEMASTER, D. J., see THORBJARNARSON, K. W. [and others], 1983.

DEMASTER, D. J., see THORBJARNARSON, K. W. [and others], 1986.

DES MARAIS, D. J., see BLANK, J. G. [and others], 1986.

DESONIE, D. L.; DUNCAN, R. A., 1986, Spreading ridge and hotspot contributions to seamounts near the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 1231.

DEWALD, O. E., see PETER, GEORGE [and others], 1971.

DILL, R. F., see SHEPARD, F. P. [and others], 1966.

DIXON, J. E.; STOLPER, EDWARD; DELANEY, J. R., 1986, Infrared spectroscopic measures of H_2O and CO_2 contents in Juan de Fuca Ridge glasses [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 1253.

DIXON, J. M., see FARRAR, E. [and others], 1979.

DIXON, J. M., see FARRAR, E. [and others], 1980.

DOSSO, H. W.; NIENABER, W., 1985, Model study of EM induction in the Juan de Fuca plate region [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 52, p. 1361.

DOSSO, H. W., see CHEN, J. [and others], 1986.

DOTT, R. H., JR., 1969, Circum-Pacific late Cenozoic structural rejuvenation--Implications for sea floor spreading: Science, v. 166, no. 3907, p. 874-876.

DRAKE, D. E., see EEZ-SCAN GROUP [and others], 1986.

DRAKE, D. E., see GARDNER, J. V. [and others], 1986.

DRAKE, D. E., see HAMPTON, M. A. [and others], 1986.

DRAKE, E. T., 1981, Robert Hooke and the foundation of geology--A comparison of Steno and Hooke and the Hooke imprint on the Huttonian theory; The tectonic evolution of the Oregon continental margin--Rotation of segment boundaries and possible space-time relationships in the central High Cascades: Oregon State University Doctor of Philosophy thesis, 177 p.

DRAKE, E. T., 1981, Robert Hooke and the foundation of geology--A comparison of Steno and Hooke and the Hooke imprint on the Huttonian theory; The tectonic evolution of the Oregon continental margin--Rotation of segment boundaries and possible spacetime relationships in the central High Cascades [abstract]: Dissertation Abstracts International, v. 42, no. 1, Section B, p. 112-B.

DRUMMOND, K. J.; AND OTHERS, 1981, Plate-tectonic map of the circum-Pacific region, northeast quadrant: American Association of Petroleum Geologists, 1 sheet, map scale 1:10,000,000.

DRUMMOND, K. J.; AND OTHERS, 1983, Geologic map of the circum-Pacific region, northeast quadrant: American Association of Petroleum Geologists, 1 sheet, scale 1:10,000,000, with 36 p. text.

DUNCAN, J. R.; FOWLER, G. A.; KULM, L. D., 1970, Planktonic foraminiferan-radiolarian ratios and Holocene-late Pleistocene deep sea stratigraphy off Oregon: Geological Society of America Bulletin, v. 81, no. 2, p. 561-566.

DUNCAN, J. R.; KULM, L. D., 1968, Post-glacial and late Pleistocene sedimentation in the abyssal environments off Oregon-Washington [abstract]: American Geophysical Union Transactions, v. 49, no. 1, p. 222-223.

DUNCAN, J. R.; KULM, L. D., 1970, Mineralogy, provenance, and dispersal history of late Quaternary deep-sea sands in Cascadia Basin and Blanco fracture zone of Oregon: Journal of Sedimentary Petrology, v. 40, no. 3, p. 874-887.

DUNCAN, J. R.; MORGAN, W. J.; MELSON, W. G.; SIMKIN, THOMAS; BANKS, HAROLD; GOTTFRIED, DAVID, 1 Juan de Fuca ridge bathymetry--Inc ident evidence of sea-floor spreading [abstract]: Eos (American Geophysical Union Transactions), v. 50, no. 4, p. 185.

DUNCAN, J. R., see FOWLER, G. A. [and others], 1969.

DUNCAN, J. R., see GRIGGS, G. B. [and others], 1970.

DUNCAN, J. R., see NELSON, C. H. [and others], 1968.

DUNCAN, R. A.; CLAGUE, D. A., 1985, Pacific plate motion recorded by linear volcanic chains. In Nairn, A. E. M.; Stehli, F. G.; Uyeda, Seiya, editors, 1985, The Pacific Ocean: Plenum Press, The Ocean Basins and Margins, v. 7A, p. 89-121.

DUNCAN, R. A.; MCELWEE, K. R., COMPILERS, 1984, Cenozoic plate reconstructions. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 12.

DUNCAN, R. A., see DESONIE, D. L. [and others], 1986.

DURHAM, J. W., 1977, Pacific coast Cenozoic middle and high latitude Echinoidea [abstract]: Geological Society of America Abstracts with Programs, v. 9, no. 7, p. 960.

DYMOND, JACK, see HART, ROGER [and others], 1982.

DYMOND, JACK, see THE MERGE GROUP [and others], 1984.

DYMOND, JACK, see ROTH, SHARON [and others], 1985.

DYMOND, J. R., 1970, Excess argon in submarine basalt pillows: Geological Society of America Bulletin, v. 81, no. 4, p. 1229-1232.

DYMOND, J. R.; WATKINS, N. D.; NAYUDU, Y. R., 1968, Age of the Cobb Seamount: Journal of Geophysical Research, v. 73, no. 12, p. 3977-3979.

EABY, JACQUELINE, 1982, Sr-isotopic variations along the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 45, p. 1154.

EABY, JACQUELINE; CLAGUE, D. A.; DELANEY, J. R., 1984, Sr isotopic variations along the Juan de Fuca Ridge: Journal of Geophysical Research, v. 89, no. B9, p. 7883-7890.

ECHOLS, R. J.; BARNES, S. S.; HARMAN, R. A., 1969, Sediment-foraminiferal relations within inner sublittoral zone off coast of Washington [abstract]: American Association of Petroleum Geologists Bulletin, v. 53, no. 2, p. 463.

ECHOLS, R. J.; FOWLER, G. A., 1973, Agglutinated tintinnid loricae from some Recent and late Pleistocene shelf sediments:

Micropaleontology, v. 19, no. 4, p. 431-442.

ECHOLS, R. J., see BENNETT, L. C., JR. [and others], 1971.

EDGAR, N. T., 1983, Oil and gas resources of the U.S. continental margin. In Mangone, G. J., editor, 1983, The future of gas and oil from the sea: Van Nostrand Reinhold, p. 25-79.

EDMOND, J. M., see MCDUFF, R. E. [and others], 1983.

EDWARDS, B., see HOLMES, M. L. [and others], 1984.

EDWARDS, B. D., see EEZ-SCAN GROUP [and others], 1986.

EDWARDS, B. D., see GARDNER, J. V. [and others], 1986.

EDWARDS, R. N., see WOLFGRAM, P. A. [and others], 1984.

EEZ-SCAN 84 SCIENTIFIC STAFF, 1985, MV Farnella cruises 1/84 to 4/84, 26 April to 15 August 1984 GLORIA studies of the Exclusive Economic Zone off the western United States between 30 degrees 30 minutes and 48 degrees 30 minutes N.: U.S. Geological Survey Open-File Report 85-508, 17 p.

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view. In Carter, L. M. H., editor, 1986, USGS research on energy resources, 1986; Program and abstracts: U.S. Geological Survey Circular 974, p. 13-15.

ELLIS, R. M.; SPENCE, G. D.; CLOWES, R. M.; WALDRON, D. A.; JONES, I. F.; GREEN, A. G.; FORSYTH, D. A.; MAIR, J. A.; BERRY, M. J.; AND OTHERS, 1983, The Vancouver Island seismic project--A CO-CRUST onshore-offshore study of a convergent margin: Canadian Journal of Earth Sciences, v. 20, no. 5, p. 719-741.

ELLIS, R. M., see CLOWES, R. M. [and others], 1983.

ELLIS, R. M., see WAHLSTROM, R. [and others], 1987.

ELVERS, D. J.; MORLEY, JOSEPH, 1973, Northwest Pacific IDOE (2): Geotimes, v. 18, no. 6, p. 25-26.

ELVERS, D. J.; SRIVASTAVA, S. P.; POTTER, KENNETH; MORLEY, JOSEPH; SEIDEL, DEAN, 1973, Asymmetric spreading across the Juan de Fuca and Gorda rises as obtained from a detailed magnetic survey: Earth and Planetary Science Letters, v. 20, no. 2, p. 211-219.

ELVERS, D. J.; WALTON, FRED; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO, 1972, Deformation of the sea floor as revealed by seismic reflection and systematic gravity and magnetic measurements from the Tufts Abyssal Plain to the Washington-Oregon coast [abstract]: Eos (American Geophysical Union Transactions), v. 53, no. 4, p. 366.

ELVERS, D. J., see SEIDEL, DEAN [and others], 1972.

ELVERS, D. J., see SEIDEL, DEAN [and others], 1973.

EMBLEY, R. W.; HAMMOND, S. R., 1985, Portrait of the submarine "hotspot" as a young caldera [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 925.

EMBLEY, R. W., see APPELGATE, B. [and others], 1986.

EMBLEY, R. W., see CRANE, KATHLEEN [and others], 1985.

EMBLEY, R. W., see HAMMOND, S. R. [and others], 1984.

EMBLEY, R. W., see JACOBSON, R. S. [and others], 1987.

EMBLEY, R. W., see KULM, L. D. [and others], 1983.

EMBLEY, R. W., see MALAHOFF, ALEXANDER [and others], 1982.

EMBLEY, R. W., see MALAHOFF, ALEXANDER [and others], 1983.

EMBLEY, R. W., see MURPHY, K. M. [and others], 1986.

EMILIA, D. A.; BERG, J. W., JR.; BALES, W. E., 1966, A magnetic survey off the Pacific Northwest coast: Ore Bin, v. 28, no. 12, p. 205-210.

EMILIA, D. A.; BERG, J. W., JR.; BALES, W. E., 1968, Magnetic anomalies off the northwest coast of the United States: Geological Society of America Bulletin, v. 79, no. 8, p. 1053-1061.

EMILIA, D. A., see BERG, J. W., JR. [and others], 1968.

ENBYSK, B. J., 1965, Coiling direction ratios of Foraminifera Globigerina pachyderma (Ehrenberg) in northeastern Pacific surface sediments [abstract]: American Association of Petroleum Geologists Bulletin, v. 49, no. 10, p. 1760.

ENBYSK, B. J.; COOPER, S. C., 1965, Biogenic elements in surface sediments of Cascadia Basin, northeast Pacific [abstract]: Geological Society of America Special Paper 82, p. 251-252.

ENBYSK, B. J., see NAYUDU, Y. R. [and others], 1964.

ENGEL, A. E. J., see ENGEL, C. G. [and others], 1963.

ENGEL, C. G.; ENGEL, A. E. J., 1963, Basalts dredged from the northeastern Pacific Ocean: Science, v. 140, no. 3573, p. 1321-1324.

ERTEL, J. R.; HEDGES, J. I., 1985, Sources of sedimentary humic substances--Vascular plant debris: Geochimica et Cosmochimica Acta, v. 49, no. 10, p. 2097-2107.

EVANS, D. W., see CUTSHALL, N. H. [and others], 1971.

FARRAR, E.; DIXON, J. M., 1979, Has the North Pacific spreading center been subducted beneath Oregon, Washington and British Columbia? [abstract]: Geological Society of America Abstracts with Programs, v. 11, no. 7, p. 423.

FARRAR, E.; DIXON, J. M., 1980, Miocene ridge impingement and the spawning of secondary ridges off Oregon, Washington, and British Columbia: Tectonophysics, v. 69, no. 3-4, p. 321-348.

FARROW, G., see TUNNICLIFFE, VERENA [and others], 1983.

FEELY, R. A.; MASSOTH, G. J.; CURL, H. C., JR.; BOUDREAU, M. L.; MCMURTRY, G. M., 1984, Composition of white and black smoker particulates from active vents on the Juan de Fuca and Endeavor Ridges [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1112.

FEELY, R. A., see APPELGATE, B. [and others], 1986.

FEELY, R. A., see HAMMOND, S. R. [and others], 1984.

FEELY, R. A., see LEWISON, M. A. [and others], 1986.

FEELY, R. A., see MASSOTH, G. J. [and others], 1982.

FEELY, R. A., see MASSOTH, G. J. [and others], 1983.

FEELY, R. A., see MCMURTRY, G. M. [and others], 1984.

FENTON, D. R., see SANDS, W. C. [and others], 1966.

FIELD, M. E.; CARLSON, P. R.; HALL, R. K., 1983, Seismic facies of shelfedge deposits, U.S. Pacific continental margin. In Stanley, D. J.; Moore, G. T., editors, 1983, The shelfbreak--Critical interface on continental margins: Society of Economic Paleontologists and Mineralogists Special Paper 33, p. 299-313.

FIELD, M. E., see EEZ-SCAN GROUP [and others], 1986.

FIELD, M. E., see GARDNER, J. V. [and others], 1986.

FLORER, L. E., 1972, Pollen analyses of marine cores off the Washington coast [abstract]: American Association of Stratigraphic Palynologists, 5th Annual Meeting, Abstracts of Papers, p. 11.

FLORER, L. E., 1973, Pollen analysis of marine sediments off the Washington coast: Marine Geology, v. 14, no. 1, p. 73-78.

FLORER, L. E., 1974, Pollen analyses of marine cores off the Washington coast [abstract]: Geoscience and Man, v. 9, p. 74.

FLORER, L. E., see HEUSSER, C. J. [and others], 1973.

FLORER-HEUSSER, L. E., 1975, Late Cenozoic marine palynology of northeastern Pacific Ocean cores. In Sugate, R. P.; Cresswell, M. M., editors, 1975, Quaternary studies--Selected papers from IX INQUA Congress: Royal Society of New Zealand Bulletin 13, p. 133-138.

FORSTER, W. O., 1972, Radionuclide distribution in Columbia River and adjacent Pacific shelf sediments; Chapter 27. In Pruter, A. T.; Alverson, D. L., editors, 1972, The Columbia River estuary and adjacent ocean waters--Bioenvironmental studies: University of Washington Press, p. 701-735.

FORSYTH, D. A., see ELLIS, R. M. [and others], 1983.

FOUNTAIN, D. M., see COWAN, D. S. [and others], 1986.

FOUNTAIN, D. M., see POTTER, C. J. [and others], 1982.

FOWLER, G. A., 1977, Radiolarian-planktonic Foraminifera ratios and Pleistocene deep-sea stratigraphy in the northeastern Pacific off Oregon and Washington [abstract]: Geological Society of America Abstracts with Programs, v. 9, no. 7, p. 980.

FOWLER, G. A.; KULM, L. D.; DUNCAN, J. R.; GRIGGS, G. B., 1969, Late Quaternary deep-sea stratigraphy and paleoclimatology of a middle to high region, northeastern Pacific

[abstract]: Geological Society of America Abstracts for 1969, part 7, p. 275-277.

FOWLER, G. A., see DUNCAN, J. R. [and others], 1970.

FOWLER, G. A., see ECHOLS, R. J. [and others], 1973.

FOWLER, G. A., see GRIGGS, G. B. [and others], 1970.

FOWLER, G. A., see GROSS, M. G. [and others], 1972.

FOWLER, G. A., see KULM, L. D. [and others], 1974.

FOX, C. G., see APPELGATE, B. [and others], 1986.

FOX, C. G., see MURPHY, K. M. [and others], 1986.

FOX, K. F., JR., 1983, Northeast-trending subcrustal fault transects western Washington: U.S. Geological Survey Open-File Report 83-398, 12 p.

FRANKLIN, J., see APPELGATE, B. [and others], 1986.

FRANKLIN, J., see HAMMOND, S. R. [and others], 1984.

FRANKLIN, R., PREPARERS, see RIDDIHOUGH, R. P., COMPILER [and others], 1984.

GARDNER, J. V.; CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G., 1986, Sonograph mosaic of U.S. west coast Exclusive Economic Zone [abstract]: American Association of Petroleum Geologists Bulletin, v. 70, no. 7, p. 922-923.

GARDNER, J. V., see EEZ-SCAN GROUP [and others], 1986.

GARDNER, J. V., see HOLMES, M. L. [and others], 1984.

GARDNER, J. V., see JOHNSON, H. P. [and others], 1984.

GAST, P. W., see KAY, R. [and others], 1970.

GAVIN, J. E., see BLACKSTOCK, C. G. [and others], 1969.

GAYNANOV, A. G., see SOKOLOV, B. A. [and others], 1976.

GEISELMAN, T. L., see LEWISON, M. A. [and others], 1986.

GEMPERLE, MICHAEL, see CONNARD, GERRY [and others], 1984.

GEMPERLE, MICHAEL, see DEHLINGER, PETER [and others], 1966.

GEMPERLE, MICHAEL, see DEHLINGER, PETER [and others], 1970.

GERIN, MARYBETH, 1977, Bathymetric map of Pacific coast, Vancouver Island to Tillamook Bay: U.S. Geological Survey Open-File Report 77-115, 2 sheets, scale 1:500,000.

GERIN, MARYBETH; STEVENSON, A. J., COMPILERS, 1979, Equal-area base map of the north Pacific Ocean, northeast section; Albers equal-area projection: U.S. Geological Survey Open-File Report 79-856, 1 sheet, scale 1:2,500,000.

GIBSON, C. N., see KILBOURNE, R. T. [and others], 1979.

GIBSON, E. K., see SOMMER, M. A. [and others], 1985.

GLASS, C. E., see TILLSON, D. D. [and others], 1985.

GLASSLEY, W. E., see STERNBERG, R. W. [and others], 1977.

GLASSLEY, W. E., see STERNBERG, R. W. [and others], 1979.

GOLDFARB, M., see THE MERGE GROUP [and others], 1984.

GOODFELLOW, W. D., see DAVIS, E. E. [and others], 1986.

GOODIER, J. L., 1972, U.S. federal and seacoast state offshore mining laws: Nautilus Press [Washington, D.C.], 221 p.

GOTTFRIED, DAVID, see DUNCAN, J. R. [and others], 1969.

GOUD, M. R., see HOLSER, A. F. [and others], 1981.

GOUD, M. R., see HOLSER, A. F. [and others], 1984.

GOUD, M. R., see ROWLAND, R. W. [and others], 1983.

GREEN, A. G., see CLOWES, R. M. [and others], 1987.

GREEN, A. G., see ELLIS, R. M. [and others], 1983.

GREENHOUSE, J. P., see LAW, L. K. [and others], 1978.

GRIGGS, G. B., 1969, Cascadia channel--The anatomy of a deep-sea channel: Oregon State University Doctor of Philosophy thesis, 183 p.

GRIGGS, G. B., 1969, Cascadia channel--The anatomy of a deep-sea channel [abstract]: Dissertation Abstracts International, v. 30, no. 4, Section B, p. p. 1816-B-1817-B.

GRIGGS, G. B.; CAREY, A. G., JR.; KULM, L. D., 1969, Deep-sea sedimentation and sediment-fauna interaction in Cascadia channel and on Cascadia abyssal plain: Deep-Sea Research, v. 16, no. 2, p. 157-170.

GRIGGS, G. B.; KULM, L. D., 1969, Glacial marine sediments from the northeast Pacific: Journal of Sedimentary Petrology, v. 39, no. 3, p. 1142-1148.

GRIGGS, G. B.; KULM, L. D., 1969, Turbidity current analysis in a deep-sea channel [abstract]: Eos (American Geophysical Union Transactions), v. 50, no. 4, p. 197.

GRIGGS, G. B.; KULM, L. D., 1970, Physiography of Cascadia deep-sea channel: Northwest Science, v. 44, no. 2, p. 82-94.

GRIGGS, G. B.; KULM, L. D., 1970, Sedimentation in Cascadia deep-sea channel: Geological Society of America Bulletin, v. 81, no. 5, p. 1361-1384.

GRIGGS, G. B.; KULM, L. D., 1973, Origin and development of Cascadia deep-sea channel: Journal of Geophysical Research, v. 78, no. 27, p. 6325-6339.

GRIGGS, G. B.; KULM, L. D.; DUNCAN, J. R.; FOWLER, G. A., 1970, Holocene faunal stratigraphy and paleoclimatic implications of deep-sea sediments in Cascadia basin: Palaeogeography, Palaeoclimatology, Palaeoecology, v. 7, no. 1, p. 5-12.

GRIGGS, G. B.; KULM, L. D.; WATERS, A. C.; FOWLER, G. A., 1970, Deep-sea gravel from Cascadia channel: Journal of Geology, v. 78, no. 5, p. 611-619.

GRIGGS, G. B., see FOWLER, G. A. [and others], 1969.

GRIM, M. S.; BENNETT, L. C., JR., 1968, Geophysical investigations of the continental shelf off the coast of Washington--A preliminary report [abstract]: American Geophysical Union Transactions, v. 49, no. 1, p. 524-525.

GRIM, M. S.; BENNETT, L. C., JR., 1969, Shallow seismic profiling of the continental shelf off Grays Harbor, Washington. In McManus, D. A.; Bennett, L. C., Jr.; and others, 1969, Research on the continental shelf off Washington and western Alaska from August 1968 through June 1969: University of Washington Department of Oceanography Special Report 41, p. 72-92.

GRIM, M. S.; BENNETT, L. C., JR., 1969, Shallow sub-bottom geology of the Washington shelf off Grays Harbor [abstract]: Eos (American Geophysical Union Transactions), v. 50, no. 2, p. 63-64.

GRIM, M. S.; BENNETT, L. C., JR.; HARMAN, R. A., 1968, Shallow seismic profiling of the continental shelf off Grays Harbor, Washington [abstract]: American Geophysical Union Transactions, v. 49, no. 1, p. 209.

GRIM, M. S., see BENNETT, L. C., JR. [and others], 1968.

GROSS, M. G., 1963, Radioactivity of marine sediments near the Columbia River in 1962 [abstract]: American Geophysical Union Transactions, v. 44, no. 1, p. 210.

GROSS, M. G., 1965, The carbonate content of surface sediments from the northeast Pacific Ocean: Northwest Science, v. 39, no. 3, p. 85-92.

GROSS, M. G., 1965, Distribution of radioactive Columbia River sediment on the Washington-Oregon continental shelf [abstract]: American Geophysical Union Transactions, v. 46, no. 1, p. 168.

GROSS, M. G., 1966, Distribution of radioactive marine sediment derived from the Columbia River: Journal of Geophysical Research, v. 71, no. 8, p. 2017-2021.

GROSS, M. G., 1968, Distribution and movement of radioactive Columbia River sediment on the continental shelf of Washington and Oregon [abstract]: Geological Society of America Special Paper 101, p. 80.

GROSS, M. G., 1972, Sediment-associated radionuclides from the Columbia River; Chapter 28. In Pruter, A. T.; Alverson, D. L., editors, 1972, The Columbia River estuary and adjacent ocean waters--Bioenvironmental studies: University of Washington Press, p. 736-754.

GROSS, M. G.; BARNES, C. A.; RIEL, G. K., 1964, Radioactivity of the Columbia River discharge in the northeast Pacific Ocean in August 1963 [abstract]: American Geophysical Union Transactions, v. 45, no. 1, p. 65.

GROSS, M. G.; CAREY, A. G., JR.; FOWLER, G. A.; KULM, L. D., 1972, Distribution of organic carbon in surface sediments, northeast Pacific Ocean; Chapter 12. In Pruter, A. T.; Alverson, D. L., editors, 1972, The Columbia River estuary and adjacent ocean waters--Bioenvironmental studies: University of Washington Press, p. 254-264.

GROSS, M. G.; MCMANUS, D. A.; CREAGER, J. S., 1963, Preliminary report on the sediments and radioactivity in the vicinity of the Columbia River effluent: University of

Washington Department of Oceanography Technical Report 84, 32 p.

GROSS, M. G.; MCMANUS, D. A.; LING, H.-Y., 1967, Continental shelf sediment, northwest United States: Journal of Sedimentary Petrology, v. 37, no. 3, p. 790-795.

GROSS, M. G.; NELSON, J. L., 1966, Sediment movement on the continental shelf near Washington and Oregon: Science, v. 154, no. 3751, p. 879-880, 885.

GROSS, M. G., see BARNES, C. A. [and others], 1966.

GROSS, M. G., see MORSE, B.-A. [and others], 1967.

GROSS, M. G., see MORSE, B.-A. [and others], 1968.

GRUNDMANIS, VARIS; MURRAY, J. W., 1978, Interstitial water chemistry in the Cascadia basin [abstract]: Eos (American Geophysical Union Transactions), v. 59, no. 4, p. 307.

HALL, R. K., see FIELD, M. E. [and others], 1983.

HAMMOND, S. R.; DELANEY, J. R., 1985, Evolution of Axial volcano, Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 925-926.

HAMMOND, S. R.; KARSTEN, J. L.; DAVIS, E. E.; CURRIE, R. G.; MALAHOFF, ALEXANDER, 1983, Bathymetric and hydrothermal characterization of the northernmost Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 45, p. 853.

HAMMOND, S. R.; LEE, J. S.; MALAHOFF, ALEXANDER; FEELY, R. A.; EMBLEY, R. W.; FRANKLIN, J., 1984, Discovery of high-temperature hydrothermal venting on the Endeavour segment of the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1111.

HAMMOND, S. R.; MALAHOFF, ALEXANDER, 1982, Structure of the Juan de Fuca Ridge hotspot region from seabeam bathymetry [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 18, p. 447.

HAMMOND, S. R.; MALAHOFF, ALEXANDER; HEY, R. N., 1981, Detailed bathymetric evidence for recent rifting at the Cobb propagator, Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 62, no. 45, p. 1028.

HAMMOND, S. R., see CRANE, KATHLEEN [and others], 1985.

HAMMOND, S. R., see CURRIE, R. G. [and others], 1984.

HAMMOND, S. R., see DAVIS, E. E. [and others], 1984.

HAMMOND, S. R., see DAVIS, E. E. [and others], 1986.

HAMMOND, S. R., see DELANEY, J. R. [and others], 1983.

HAMMOND, S. R., see DELANEY, J. R. [and others], 1986.

HAMMOND, S. R., see EMBLEY, R. W. [and others], 1985.

HAMMOND, S. R., see JACOBSON, R. S. [and others], 1987.

HAMMOND, S. R., see KARSTEN, J. L. [and others], 1986.

HAMMOND, S. R., see LEE, J. S. [and others], 1984.

HAMMOND, S. R., see LEE, J. S. [and others], 1985.

HAMMOND, S. R., see MALAHOFF, ALEXANDER [and others], 1982.

HAMMOND, S. R., see MALAHOFF, ALEXANDER [and others], 1983.

HAMMOND, S. R., see MURPHY, K. M. [and others], 1986.

HAMPTON, M. A.; CACCHIONE, D. A.; DRAKE, D. E.; KARL, N. H.; KENYON, N. H.; MASSON, D. G., 1986, GLORIA mosaic of west coast U.S. Exclusive Economic Zone, northern sector [abstract]: American Association of Petroleum Geologists Bulletin, v. 70, no. 5, p. 598.

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1984, Geomorphic features of the Oregon-Washington EEZ [abstract]: Geological Society of America Abstracts with Programs, v. 16, no. 6, p. 529.

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1984, Sonograph mosaic of the Oregon-Washington EEZ [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1083.

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1985, Geomorphic features of Oregon-Washington project EEZ-SCAN [abstract]: American Association of Petroleum Geologists Bulletin, v. 69, no. 2, p. 262.

HAMPTON, M. A., see EEZ-SCAN GROUP [and others], 1986.

HAMPTON, M. A., see GARDNER, J. V. [and others], 1986.

HANNINGTON, M. D.; PETER, J. M.; SCOTT, S. D., 1986, Gold in sea-floor polymetallic sulfide deposits: Economic Geology, v. 81, no. 8, p. 1867-1883.

HANNINGTON, M. D.; SCOTT, S. D., 1986, Processes of sulfide accumulation in seafloor polymetallic sulfide deposits--Axial seamount and southern Explorer Ridge [abstract]. In Geoexpo/86, Exploration in the North American Cordillera: Geological Association of Canada Cordilleran Section Programs and Abstracts, p. 45-46.

HANNINGTON, M. D., see SCOTT, S. D. [and others], 1986.

HANSON, S. L., see PERKINS, D. M. [and others], 1980.

HARMAN, R. A., 1969, Process affecting distribution of foraminifera and other biogenic sediment components off coast of Washington and Oregon [abstract]: American Association of Petroleum Geologists Bulletin, v. 53, no. 2, p. 462-463.

HARMAN, R. A., see ECHOLS, R. J. [and others], 1969.

HARMAN, R. A., see GRIM, M. S. [and others], 1968.

HARMON, R. A., 1972, The distribution of microbiogenic sediment near the mouth of the Columbia River; Chapter 13. In Pruter, A. T.; Alverson, D. L., editors, 1972, The Columbia River estuary and adjacent ocean waters--Bioenvironmental studies: University of Washington Press, p. 265-278.

HARRIS, W. M.; MCFARLANE, B. E.; BEASLEY, DAVID, COMPILERS, 1981, Outer continental shelf statistics--Oil, gas, sulphur, salt, leasing, drilling, production, income, 1953 through calendar year 1980: U.S. Geological Survey Conservation Division, 91 p.

HART, ROGER; DYMOND, JACK; LOGAN, LEWIS, 1982, Noble gas evidence for sea water interaction with residual melts along the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 45, p. 1154.

HARTZELL, S. H., see HEATON, T. H. [and others], 1985.

HARTZELL, S. H., see HEATON, T. H. [and others], 1986.

HARTZELL, S. H., see HEATON, T. H. [and others], 1987.

HASTINGS, D. D., see BRAISLIN, D. B. [and others], 1971.

HAYES, D. E.; PITMAN, W. C., III, 1970, Magnetic lineations in the north Pacific. In Hays, J. D., editor, 1970, Geological investigations in the north Pacific: Geological Society of America Memoir 126, p. 291-314.

HEALY, M. J.; CARSON, BOBB, 1983, Dispersal rates of Mount St. Helens ash across the Washington continental shelf--1980-1981 [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 18, p. 240.

HEALY, M. L.; CRECELIUS, E. A., 1977, Chemical oceanography. In Massoglia, M. F., compiler, 1977, Conference/workshop proceedings--Recommendations for baseline research in Washington and Oregon relative to offshore resource development: U.S. Bureau of Land Management, p. 173-184.

HEATH, G. R., see DAUPHIN, J. P. [and others], 1973.

HEATON, T. H.; HARTZELL, S. H., 1985, Northwest U.S. subduction zone risk assessment. In Jacobson, M. L.; Rodriguez, T. R. compilers, 1985, Summaries of technical reports, volume XIX, prepared by participants in National Earthquake Hazards Reduction Program: U.S. Geological Survey Open-File Report 85-22, p. 182-185.

HEATON, T. H.; HARTZELL, S. H., 1986, Source characteristics of hypothetical subduction earthquakes in the northwestern United States: Seismological Society of America Bulletin, v. 76, no. 3, p. 675-703.

HEATON, T. H.; HARTZELL, S. H., 1987, Earthquake hazards on the Cascadia subduction zone: Science, v. 236, no. 4798, p. 162-168.

HEDGE, C. E.; PETERMAN, Z. E., 1970, The strontium isotopic composition of basalts from the Gorda and Juan de Fuca Rises, northeastern Pacific Ocean: Contributions to Mineralogy and Petrology-Beitraege zur Mineralogie und Petrologie, v. 27, no. 2, p. 114-120.

HEDGES, J. I., 1977, Lignin compounds in Holocene sediments from the Washington continental shelf [abstract]: Geological Society of America Abstracts with Programs, v. 9, no. 7, p. 1010-1011.

HEDGES, J. I.; MANN, D. C., 1979, The lignin geochemistry of marine sediments from the southern Washington coast: Geochimica et Cosmochimica Acta, v. 43, no. 11, p. 1809-1818.

HEDGES, J. I.; VAN GEEN, ALEXANDER, 1982, A comparison of lignin and stable carbon isotope compositions in Quaternary marine sediments: Marine Chemistry, v. 11, no. 1, p. 43-54.

HEDGES, J. I., see ERTEL, J. R. [and others], 1985.

HEGNER, ERNST; TATSUMOTO, M., 1985, Isotope variations in seamount basalts from the northeast Pacific [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 1138.

HEGNER, ERNST, see TATSUMOTO, M. [and others], 1985.

HEIRTZLER, J. R., see PITMAN, W. C., III [and others], 1968.

HENDRICKSON, M. A., 1986, The determination of seismic structure from teleseismic P waveforms on the Washington continental margin: University of Washington Master of Science thesis, 74 p.

HERLIHY, D. R., 1985, Conflicts of interest over polymetallic sulfide minerals on the Gorda-Juan de Fuca Ridge system: University of Washington Master of Marine Affairs thesis, 101 p.

HERRON, E., see PITMAN, W. C., III [and others], 1968.

HERZER, R. H.; BORNHOLD, B. D., 1982, Glaciation and post-glacial history of the continental shelf off southwestern Vancouver Island, British Columbia: Marine Geology, v. 48, no. 3/4, p. 285-319.

HESS, H. D., see MANHEIM, F. T. [and others], 1981.

HEUSSER, C. J.; FLORER, L. E., 1973, Correlation of marine and continental Quaternary pollen records from the northeast Pacific and western Washington: Quaternary Research, v. 3, no. 4, p. 661-670.

HEUSSER, L. E.; BALSAM, W. L., 1975, Distributional patterns of pollen from the Northeast Pacific Ocean [abstract]: Geological Society of America Abstracts with Programs, v. 7, no. 7, p. 1113.

HEUSSER, L. E.; BALSAM, W. L., 1977, Pollen distribution in the northeast Pacific Ocean: Quaternary Research, v. 7, no. 1, p. 45-62.

HEY, R. N.; WILSON, D. S., 1982, Propagating rift explanation for the tectonic evolution of the northeast Pacific--The pseudomovie: Earth and Planetary Science Letters, v. 58, no. 2, p. 167-188.

HEY, R. N., see HAMMOND, S. R. [and others], 1981.

HEY, R. N., see NISHIMURA, C. E. [and others], 1981.

HEY, R. N., see NISHIMURA, C. E. [and others], 1984.

HEY, R. N., see WILSON, D. S. [and others], 1982.

HEY, R. N., see WILSON, D. S. [and others], 1984.

HICKEY, B. M.; BAKER, E. T., 1983, Velocity and suspended sediment fluctuations in the vicinity of Quinault Submarine Canyon [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 52, p. 1060.

HICKEY, B. M., see BAKER, E. T. [and others], 1986.

HICKEY, B. M., see CARSON, BOBB [and others], 1986.

HICKMAN, C. S.; LINDBERG, D. R., 1984, Relationship of molluscan biogeographic anomalies to changing settings on an active continental margin [abstract]: Geological Society of America Abstracts with Programs, v. 16, no. 5, p. 289.

HINKLEY, T. K., see TATSUMOTO, M. [and others], 1985.

HOBART, M. A., see LANGSETH, M. G. [and others], 1984.

HOFFMAN, P. A., see DEMASTER, D. J. [and others], 1983.

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington: Minerals Science and Engineering, v. 11, no. 1, p. 22-34.

HOLMES, M. L.; GARDNER, J. V.; JOHNSON, H. P.; CAMPBELL, J. F.; CARLSON, P.; EDWARDS, B.; KARL, H. A., 1984, SeaMARC II studies of the Juan de Fuca and Gorda Ridges [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 16, p. 279.

HOLMES, M. L., see CHASE, T. E. [and others], 1977.

HOLMES, M. L., see JOHNSON, H. P. [and others], 1984.

HOLMES, M. L., see KULM, L. D. [and others], 1984.

HOLMES, M. L., see MCCLAIN, K. J. [and others], 1984.

HOLMES, M. L., see MCMANUS, D. A. [and others], 1972.

HOLMES, M. L., see NITTROUER, C. A. [and others], 1977.

HOLMES, M. L., see WILDE, P. [and others], 1977.

HOLSER, A. F.; MCGREGOR, B. A.; ROWLAND, R. W.; GOUD, M. R., 1984, United States government initiatives in the assessment and development of the mineral resources of the exclusive economic zone of the United

States: U.S. Geological Survey Open-File Report 84-110, 20 p.

HOLSER, A. F.; ROWLAND, R. W.; GOUD, M. R., 1981, A compilation of subsea energy and mineral resources of the United States including its possessions and Trust Territory of the Pacific Islands: U.S. Geological Survey Miscellaneous Field Studies Map MF-1360, 1 sheet, scale 1:20,000,000.

HOPKINS, T. S., see SMITH, J. D. [and others], 1971.

HOPKINS, T. S., see SMITH, J. D. [and others], 1972.

HORN, B. M., see HORN, D. R. [and others], 1968.

HORN, B. M., see HORN, D. R. [and others], 1969.

HORN, B. M., see HORN, D. R. [and others], 1972.

HORN, D. R.; DELACH, M. N.; HORN, B. M., 1969, Distribution of volcanic ash layers and turbidites in the north Pacific: Geological Society of America Bulletin, v. 80, no. 9, p. 1715-1723.

HORN, D. R.; HORN, B. M.; DELACH, M. N., 1968, Sonic properties of deep-sea cores from the North Pacific Basin and their bearing on the acoustic provinces of the North Pacific: Columbia University Lamont Geological Observatory Technical Report 10, 1 v.

HORN, D. R.; HORN, B. M.; DELACH, M. N., 1972, Ferromanganese deposits of the north Pacific Ocean: National Science Foundation Office for the International Decade of Ocean Exploration Technical Report 1, NSF-GX 33616, 77 p., 4 plates.

HOWELL, D. A., see CLAGUE, D. A. [and others], 1984.

HOWELL, D. G.; ALPHA, T. R.; JOYCE, J. M., 1980, Plate tectonics, physiography, and sedimentation of the northeast Pacific region. In Field, M. E.; Bouma, A. H.; Colburn, I. P.; Douglas, R. G.; Ingle, J. C., editors, 1980, Quaternary depositional environments of the Pacific Coast: Society of Economic Paleontologists and Mineralogists Pacific Section, Pacific Coast Paleogeography Symposium 4, p. 43-53.

HOWELL, D. G., see STOW, D. A. V. [and others], 1985.

HUBBARD, N. J., see KAY, R. [and others], 1970.

HUSSONG, D. M., see BORNHOLD, B. D. [and others], 1986.

HUSSONG, D. M., see CURRIE, R. G. [and others], 1984.

HUSSONG, D. M., see DAVIS, E. E. [and others], 1983.

HUSSONG, D. M., see DAVIS, E. E. [and others], 1984.

HUSSONG, D. M., see DAVIS, E. E. [and others], 1986.

HYNDMAN, D. W., see COWAN, D. S. [and others], 1986.

HYNDMAN, D. W., see POTTER, C. J. [and others], 1982.

HYNDMAN, R. D., COMPILER; PRICE, W., PREPARER, 1983, Geothermal heat flux: Energy, Mines and Resources Canada, Earth Physics Branch, Juan de Fuca Plate map JFP-10, 1 sheet, scale 1:2,000,000.

HYNDMAN, R. D., see BORNHOLD, B. D. [and others], 1986.

HYNDMAN, R. D., see DAVIS, E. E. [and others], 1986.

HYNDMAN, R. D., see RIDDIHOUGH, R. P. [and others], 1977.

HYNDMAN, R. D., see RIDDIHOUGH, R. P. [and others], 1983.

HYNDMAN, R. D., see RIDDIHOUGH, R. P. [and others], 1985.

IIZUKA, SUSAMI see SEIDEL, DEAN [and others], 1973.

INGLE, J. C., JR., 1966, Pliocene-Miocene boundary in temperate eastern Pacific [abstract]: American Association of Petroleum Geologists Bulletin, v. 50, no. 3, part 1, p. 618-619.

INTERNATIONAL SYMPOSIUM ON THE ENGINEERING PROPERTIES OF SEA-FLOOR SOILS AND THEIR GEOPHYSICAL IDENTIFICATION, 1971, Proceedings: University of Washington, 374 p.

IRVING, E.; ROY, J. L., 1968, Intensite et stabilite d'aimantation des basaltes de l'Oregon et Washington et leurs applications a l'expansion du fond de l'ocean et a d'autres problemes geophysiques: Canadian Journal of Earth Sciences, v. 5, no. 4, part 1, p. 907-913.

IWABUCHI, YOSHIO, see SEIDEL, DEAN [and others], 1972.

IWABUCHI, YOSHIO, see SEIDEL, DEAN [and others], 1973.

JACOBSON, R. S.; BIBEE, L. D.; EMBLEY, R. W.; HAMMOND, S. R., 1987, A microseismicity survey of Axial Seamount, Juan de Fuca

Ridge: Seismological Society of America Bulletin, v. 77, no. 1, p. 160-172.

JENKINS, J., see MAIRS, H. [and others], 1985.

JENNINGS, C. D., see BEASLEY, T. M. [and others], 1982.

JOHNSON, H. P.; DELANEY, J. R., 1980, Interaction of a hot spot and a mid-ocean ridge--The Juan de Fuca Ridge crest [abstract]: Eos (American Geophysical Union Transactions), v. 61, no. 46, p. 1106.

JOHNSON, H. P.; DELANEY, J. R.; KARSTEN, J. L.; VANCE, T. C., 1983, Characterization of the structure of the Juan de Fuca Ridge [abstract]: Geological Association of Canada Program with Abstracts, v. 8, p. A36.

JOHNSON, H. P.; HOLMES, M. L.; GARDNER, J. V.; CAMPBELL, J. F., 1984, A detailed side-scan sonar study of a propagating rift--SeaMARC II on the northern Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 16, p. 278-279.

JOHNSON, H. P.; HOLMES, M. L.; GARDNER, J. V.; CAMPBELL, J. F., 1984, A detailed side-scan sonar study of a propagating rift--SeaMARC II on the northern Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1110.

JOHNSON, H. P.; KARSTEN, J. L.; DELANEY, J. R.; DAVIS, E. E.; CURRIE, R. G.; CHASE, R. L., 1983, A detailed study of the Cobb offset of the Juan de Fuca Ridge--Evolution of a propagating rift: Journal of Geophysical Research, v. 88, no. B3, p. 2297-2315.

JOHNSON, H. P.; MERRILL, R. T., 1972, Low temperature oxidation of a titanomagnetite [abstract]: Eos (American Geophysical Union Transactions), v. 53, no. 4, p. 359.

JOHNSON, H. P.; TUNNICLIFFE, VERENA, 1986, Time-lapse camera measurements of a high-temperature hydrothermal system on Axial Seamount--Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 1283.

JOHNSON, H. P.; VANCE, T. C.; DELANEY, J. R.; KARSTEN, J. L., 1982, Characterization of the symmetrical and offset portions of the Juan de Fuca Ridge between 44 degrees N and 47 degrees N [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 45, p. 1146-1147.

JOHNSON, H. P., see CASM RESEARCH GROUP [and others], 1983.

JOHNSON, H. P., see DELANEY, J. R. [and others], 1981.

JOHNSON, H. P., see DELANEY, J. R. [and others], 1983.

JOHNSON, H. P., see HOLMES, M. L. [and others], 1984.

JOHNSON, H. P., see JONES, C. J. [and others], 1981.

JOHNSON, H. P., see KARSTEN, J. L. [and others], 1982.

JOHNSON, H. P., see LILAS, R. A. [and others], 1981.

JOHNSON, H. P., see LUPTON, J. E. [and others], 1981.

JOHNSON, H. P., see TIVEY, M. A. [and others], 1985.

JOHNSON, J., see STERNBERG, R. W. [and others], 1977.

JOHNSON, J., see STERNBERG, R. W. [and others], 1979.

JOHNSON, M. P., see LUPTON, J. E. [and others], 1984.

JOHNSON, P., see THE MERGE GROUP [and others], 1984.

JOHNSON, P. R., see ZIETZ, ISIDORE [and others], 1986.

JOHNSON, S. H., see RIDDIHOUGH, R. P. [and others], 1983.

JOHNSON, S. Y.; BRANDON, M. T.; STEWART, R. J., 1984, Geology and geologic history of western Washington and southern Vancouver Islands. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 18.

JOHNSON, S. Y.; NIEM, W. A.; NIEM, A. R.; BRANDON, M. T.; KULM, L. D.; STEWART, R. J., COMPILERS, 1984, Tectonic features, western Oregon and Washington. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 15.

JOHNSON, S. Y., see COWAN, D. S. [and others], 1986.

JOHNSON, S. Y., see NIEM, A. R. [and others], 1984.

JOHNSON, V. G., see CUTSHALL, N. H. [and others], 1971.

JONES, C. J.; JOHNSON, H. P.; DELANEY, J. R., 1981, Distribution of hydrothermal manganese over the Juan de Fuca Ridge: Geophysical Research Letters, v. 8, no. 8, p. 873-876.

JONES, C. J.; MURRAY, J. W., 1980, The distribution of manganese in the Cascadia Basin [abstract]: Eos (American Geophysical Union Transactions), v. 61, no. 17, p. 269.

JONES, C. J.; MURRAY, J. W., 1984, Nickel, cadmium, and copper in the northeast Pacific off the coast of Washington: Limnology and Oceanography, v. 29, no. 4, p. 711-720.

JONES, C. J.; MURRAY, J. W., 1985, The geochemistry of manganese in the northeast Pacific Ocean off Washington: Limnology and Oceanography, v. 30, no. 1, p. 81-92.

JONES, I. F., see ELLIS, R. M. [and others], 1983.

JOYCE, J. M., see HOWELL, D. G. [and others], 1980.

JUMARS, P. A., see NITTROUER, C. A. [and others], 1978.

JUNIPER, K., see MCDUFF, R. E. [and others], 1983.

JUNIPER, S. K., see CASM RESEARCH GROUP [and others], 1983.

KACHEL, N. B., 1972, Development of a model of sediment movement on the Washington continental shelf [abstract]: Eos (American Geophysical Union Transactions), v. 53, no. 11, p. 1208.

KACHEL, N. B., 1980, A time dependent model of sediment transport and strata formation on a continental shelf: University of Washington Doctor of Philosphy thesis, 123 p.

KACHEL, N. B., 1981, A time dependent model of sediment transport and strata formation on a continental shelf [abstract]: Dissertation Abstracts International, v. 41, no. 11, Section B, p. 4051B.

KACHEL, N. B., 1982, Effects of combined waves and currents on erosion, transport, and stratigraphy on a continental shelf [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 45, p. 981-982.

KACHEL, N. B., 1982, Sediment transport, deposition, and strata formation on a continental shelf [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 3, p. 73.

KACHEL, N. B.; KELLEY, J. C., 1972, Computer simulation of sedimentation off the Washington coast [abstract]: Eos (American Geophysical Union Transactions), v. 53, no. 4, p. 422.

KADKO, D.; KOSKI, R. A.; BOUSE, R. M.; DELANEY, J. R., 1983, An estimate of hydrothermal fluid residence times and vent growth rates based on 210Pb/Pb ratios of a sulphide sample from the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 45, p. 723.

KADKO, D.; LUPTON, J. E., 1984, Radon-222 and temperature measurements on the Endeavor Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 974.

KADKO, D.; LUPTON, J. E.; COLLIER, R.; LILLEY, M. D.; PAK, H., 1986, Endeavour Ridge hydrothermal plume study [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 1027.

KADKO, D., see MCDUFF, R. E. [and others], 1984.

KAGAMI, HIDEO, see ELVERS, D. J. [and others], 1972.

KAGAMI, HIDEO, see SEIDEL, DEAN [and others], 1973.

KANASEWICH, E. R., see CLOWES, R. M. [and others], 1987.

KAPPEL, E. S.; RYAN, W. B. F., 1986, Volcanic episodicity and a non-steady state rift valley along northeast Pacific spreading centers--Evidence from Sea MARC I: Journal of Geophysical Research, v. 91, no. B14, p. 13,925-13,940.

KARL, H. A., see EEZ-SCAN GROUP [and others], 1986.

KARL, H. A., see GARDNER, J. V. [and others], 1986.

KARL, H. A., see HAMPTON, M. A. [and others], 1984.

KARL, H. A., see HAMPTON, M. A. [and others], 1985.

KARL, H. A., see HOLMES, M. L. [and others], 1984.

KARL, N. H., see HAMPTON, M. A. [and others], 1986.

KARSTEN, J. L., 1983, The Juan de Fuca Ridge between 48 degrees 00 minutes and 48 degrees 18 minutes N [abstract]: Geological Association of Canada Program with Abstracts, v. 8, p. A37.

KARSTEN, J. L.; DELANEY, J. R., 1985, Comparison of glass geochemistry from seamount and adjacent ridge crest lavas--Juan de

Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 1109.

KARSTEN, J. L.; DELANEY, J. R., 1986, Hot spot/migrating ridge crest interaction--Juan de Fuca style [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 1254.

KARSTEN, J. L.; HAMMOND, S. R.; DAVIS, E. E.; CURRIE, R. G., 1986, Detailed geomorphology and neotectonics of the Endeavour Segment, Juan de Fuca Ridge--New results from Seabeam swath mapping: Geological Society of America Bulletin, v. 97, no. 2, p. 213-221.

KARSTEN, J. L.; JOHNSON, H. P.; DELANEY, J. R.; AND OTHERS, 1982, A detailed study of the Cobb offset of the Juan de Fuca Ridge--Evolution of a propagating rift [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 18, p. 444.

KARSTEN, J. L., see CASM RESEARCH GROUP [and others], 1983.

KARSTEN, J. L., see CURRIE, R. G. [and others], 1984.

KARSTEN, J. L., see DAVIS, E. E. [and others], 1985.

KARSTEN, J. L., see DELANEY, J. R. [and others], 1981.

KARSTEN, J. L., see DELANEY, J. R. [and others], 1982.

KARSTEN, J. L., see DELANEY, J. R. [and others], 1983.

KARSTEN, J. L., see DELANEY, J. R. [and others], 1986.

KARSTEN, J. L., see HAMMOND, S. R. [and others], 1983.

KARSTEN, J. L., see JOHNSON, H. P. [and others], 1982.

KARSTEN, J. L., see JOHNSON, H. P. [and others], 1983.

KARSTEN, J. L., see THE MERGE GROUP [and others], 1984.

KASTENS, K., see DAVIS, E. E. [and others], 1984.

KAY, R.; HUBBARD, N. J.; GAST, P. W., 1970, Chemical characteristics and origin of oceanic ridge volcanic rocks: Journal of Geophysical Research, v. 75, no. 8, p. 1585-1613.

KEELING, KENNETH, see CONNARD, GERRY [and others], 1984.

KEELING, KENNETH, see COUCH, R. W. [and others], 1974.

KELLEY, D., see THE MERGE GROUP [and others], 1984.

KELLEY, J. C.; MCMANUS, D. A., 1968, Evaluation of granulometric parameters for the recognition of sediment variability [abstract]: American Geophysical Union Transactions, v. 49, no. 1, p. 222.

KELLEY, J. C.; MCMANUS, D. A., 1969, Hierarchial analysis of variance of shelf-sediment texture [abstract]: American Association of Petroleum Geologists Bulletin, v. 53, no. 2, p. 464.

KELLEY, J. C.; MCMANUS, D. A., 1969, Optimizing sediment sampling plans: Marine Geology, v. 7, no. 5, p. 465-471.

KELLEY, J. C.; MCMANUS, D. A., 1969, Separation of local variability from noise in sediment textural variables [abstract]: Eos (American Geophysical Union Transactions), v. 50, no. 4, p. 196.

KELLEY, J. C.; MCMANUS, D. A., 1970, Hierarchial analysis of variance of shelf sediment texture: Journal of Sedimentary Petrology, v. 40, no. 4, p. 1335-1339.

KELLEY, J. C., see KACHEL, N. B. [and others], 1972.

KELLY, S. M.; CROSSON, R. S., COMPILERS, 1984, Historical seismicity 1841-1979. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 10.

KENNEDY, B. M., 1985, Noble gases in vent fluids from the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 929.

KENYON, N. H., see EEZ-SCAN GROUP [and others], 1986.

KENYON, N. H., see GARDNER, J. V. [and others], 1986.

KENYON, N. H., see HAMPTON, M. A. [and others], 1984.

KENYON, N. H., see HAMPTON, M. A. [and others], 1985.

KENYON, N. H., see HAMPTON, M. A. [and others], 1986.

KIEL, W. A., see TILLSON, D. D. [and others], 1985.

KIENLE, C. R., see COUCH, R. W. [and others], 1980.

KILBOURNE, R. T.; GIBSON, C. N., 1979, Use of Neogloboquadrina pachyderma (Ehrenberg) coiling ratio curves for chronostratigraphic correlations of Quaternary marine sediments along the west coast [abstract]: Geological Society of America Abstracts with Programs, v. 11, no. 3, p. 87.

KING, J. M., see BERG, J. W., JR. [and others], 1966.

KINGSTON, M. J.; DELANEY, J. R., 1983, Sulfide deposits from the Endeavour segment of the Juan de Fuca Ridge--Comparison with other seafloor occurrences [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 45, p. 723.

KINGSTON, M. J., see DELANEY, J. R. [and others], 1983.

KLITGORD, K. D.; WATKINS, J. S., PANEL CHAIRMEN, 1984, Geologic studies related to oil and gas development in the EEZ--West Coast Pacific margin. In Symposium proceedings--A national program for the assessment and development of the mineral resources of the United States Exclusive Economic Zone: U.S. Geological Survey Circular 929, p. 144-153.

KOMAR, P. D., 1973, Continuity of turbidity current flow and systematic variations in deep-sea channel morphology: Geological Society of America Bulletin, v. 84, no. 10, p. 3329-3337.

KOMAR, P. D., see BOGGS, SAM, JR. [and others], 1977.

KORGEN, B. J.; BODVARSSON, GUNNAR; MESECAR, R. S., 1971, Heat flow through the floor of Cascadia Basin: Journal of Geophysical Research, v. 76, no. 20, p. 4758-4774.

KORNFELD, J. A., 1964, October lease sales spur Northwest U.S. oil search: World Oil, v. 159, no. 4, p. 130-132.

KOSALOS, J., see DAVIS, E. E. [and others], 1983.

KOSKI, R. A., see KADKO, D. [and others], 1983.

KRAFFT, A. D., 1984, Mineral and chemical composition of suspended and bottom sediments, Quinault submarine canyon: Lehigh University Master of Science thesis, 62 p.

KRISSEK, L. A., 1982, Sources, dispersal, and contributions of fine-grained terrigenous sediments on the Oregon and Washington continental slope: Oregon State University Doctor of Philosphy thesis, 226 p.

KRISSEK, L. A., 1982, Sources, dispersal, and contributions of fine-grained terrigenous sediments on the Oregon and Washington continental slope [abstract]: Dissertation Abstracts International, v. 43, no. 5, Section B, p. 1402B.

KRISSEK, L. A., 1984, Continental source area contributions to fine-grained sediments on the Oregon and Washington continental slope. In Stow, D. A. V.; Piper, D. J. W., editors, 1984, Fine-grained sediments--Deep water processes and facies: Blackwell Scientific Publications, Geological Society Special Publications 15, p. 363-375.

KRISSEK, L. A.; SCHEIDEGGER, K. F., 1980, Composition, sources, and dispersal of hemipelagic sediment on the Oregon continental margin [abstract]: Geological Society of America Abstracts with Programs, v. 12, no. 7, p. 466.

KRISSEK, L. A.; SCHEIDEGGER, K. F., 1981, Sources and dispersal of terrigenous sediments on the Oregon-Washington continental slope [abstract]: Eos (American Geophysical Union Transactions), v. 62, no. 45, p. 918.

KRISSEK, L. A.; SCHEIDEGGER, K. F., 1982, Multiple sediment sources and fine silt depositional patterns on the Oregon-Washington continental slope [abstract]: Geological Society of America Abstracts with Programs, v. 14, no. 7, p. 535.

KRISSEK, L. A., see SCHEIDEGGER, K. F. [and others], 1984.

KULM, L. D.; AND OTHERS, EDITORS, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, 32 p.

KULM, L. D.; EMBLEY, R. W., 1983, Contrasting tectonic-sedimentologic styles along the convergent Juan de Fuca plate boundary [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 45, p. 828.

KULM, L. D.; FOWLER, G. A., 1974, Cenozoic sedimentary framework of the Gorda-Juan de Fuca Plate and adjacent continental margin--A review. In Dott, R. H., Jr.; Shaver, R. H., editors, 1974, Modern and ancient geosynclinal sedimentation: Society of Economic Paleontologists and Mineralogists Special Publication 19, p. 212-229.

KULM, L. D.; LOUBERE, P. W.; PEPER, J. S., COMPILERS, 1984, Geology of continental margin and Cascadia Basin. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 29.

KULM, L. D.; PEPER, J. S.; HOLMES, M. L., COMPILERS, 1984, Seismic reflection tracklines. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 25.

KULM, L. D.; PETERSON, C. P., COMPILERS, 1984, Multichannel seismic records of northern Washington and central Oregon margin. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 28.

KULM, L. D.; PETERSON, C. D.; STRIBLING, M. C., 1986, Inventory of heavy minerals and metals--Southern Washington, Oregon, and northern California continental shelf and coastal region: Oregon Department of Geology and Mineral Industries Open-File Report O-86-10, 111 p.

KULM, L. D.; SCHEIDEGGER, K. F., 1979, Quaternary sedimentation on the tectonically active Oregon continental slope. In Doyle, L. J.; Pilkey, O. H., editors, 1979, Geology of continental slopes: Society of Economic Paleontologists and Mineralogists Special Publication 27, p. 247-263.

KULM, L. D., see DUNCAN, J. R. [and others], 1968.

KULM, L. D., see DUNCAN, J. R. [and others], 1970.

KULM, L. D., see FOWLER, G. A. [and others], 1969.

KULM, L. D., see GRIGGS, G. B. [and others], 1969.

KULM, L. D., see GRIGGS, G. B. [and others], 1970.

KULM, L. D., see GRIGGS, G. B. [and others], 1973.

KULM, L. D., see GROSS, M. G. [and others], 1972.

KULM, L. D., see JOHNSON, S. Y. [and others], 1984.

KULM, L. D., see NELSON, C. H. [and others], 1968.

KULM, L. D., see OSTERBERG, C. L. [and others], 1963.

KULM, L. D., see PETERSON, C. P. [and others], 1984.

KULM, L. D., see SCHWELLER, W. J. [and others], 1978.

KULM, S., see CONNARD, GERRY [and others], 1984.

LAMBERT, T. M., see WAGNER, H. C. [and others], 1986.

LANDER, D. L., see SNAVELY, P. D., JR. [and others], 1977.

LANDER, D. L., see SNAVELY, P. D., JR. [and others], 1978.

LANGSETH, M. G.; HOBART, M. A., 1984, A marine geothermal study over deformed sediments of the subduction complex off Oregon and Washington [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1089.

LARSEN, I. L., see CUTSHALL, N. H. [and others], 1983.

LARSEN, I. L., see CUTSHALL, N. H. [and others], 1986.

LARSEN, I. L., see NITTROUER, C. A. [and others], 1983.

LARSEN, L. H., see STERNBERG, R. W. [and others], 1975.

LARSEN, L. H., see STERNBERG, R. W. [and others], 1976.

LASMANIS, RAYMOND, 1983, Offshore metal deposits--Washington and Oregon: Washington Geologic Newsletter, v. 11, no. 4, p. 1-2.

LATTERELL, H. M., see NAYUDU, Y. R. [and others], 1969.

LATTIMORE, ROBERT, see PETER, GEORGE [and others], 1969.

LAU, T.-K. A., see MURPHY, K. M. [and others], 1986.

LAVIN, P. M., see PAYTON, W. H. [and others], 1987.

LAW, L. K.; GREENHOUSE, J. P., 1978, Ocean bottom magnetometer results from the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 59, no. 12, p. 1055.

LAW, L. K., see NOBES, D. C. [and others], 1984.

LAW, L. K., see NOBES, D. C. [and others], 1985.

LAW, L. K., see NOBES, D. C. [and others], 1986.

LAW, L. K., see WOLFGRAM, P. A. [and others], 1984.

LEE, J. S.; HAMMOND, S. R., 1984, Morphology of Heck and Heckle seamount chains, Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1080.

LEE, J. S.; HAMMOND, S. R., 1985, Origin of Heck and Heckle seamount chains, Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 18, p. 403.

LEE, J. S., see HAMMOND, S. R. [and others], 1984.

LEE, K., 1977, Earthquake swarms near the northern end of the Juan de Fuca Ridge [abstract]: Geological Association of Canada Program with Abstracts 1977, v. 2, p. 31.

LEINEN, MARGARET, 1984, Rates of hydrothermal sedimentation on the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1112.

LEINEN, MARGARET, 1985, Mineralogy of hydrothermal precipitates within and near active vents on the Juan de Fuca Ridge and Explorer Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 928.

LEINEN, MARGARET, see MAIRS, H. [and others], 1985.

LEINEN, MARGARET, see OAKMAN, M. R. [and others], 1985.

LEVI, S.; RIDDIHOUGH, R. P., 1985, Why are marine magnetic anomalies suppressed over sedimented spreading centers? [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 930.

LEWIS, B., see POTTER, C. J. [and others], 1982.

LEWIS, B. T. R., 1984, Analysis of Washington margin deep-tow seismic reflection data. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science Internation [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 27.

LEWIS, B. T. R., COMPILER, 1984, Deep-tow seismic reflection experiment, Washington margin. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 27.

LEWIS, B. T. R.; COCHRANE, G. R., 1984, Comparison of seismic reflection methods used to study the Washington-Oregon margin [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1089.

LEWIS, B. T. R., see COCHRANE, G. R. [and others], 1984.

LEWIS, B. T. R., see COWAN, D. S. [and others], 1986.

LEWIS, B. T. R., see MCCLAIN, K. J. [and others], 1981.

LEWIS, B. T. R., see TABER, J. J., JR. [and others], 1986.

LEWIS, G. B., see SEYMOUR, A. H. [and others], 1964.

LEWISON, M. A.; FEELY, R. A.; CURL, H. C., JR.; GEISELMAN, T. L., 1986, Composition of smoker particulates from active vents within the caldera of Axial Volcano on the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 1027.

LIIAS, R. A.; RHODES, J. M., 1982, Evolution of basaltic magma along the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 45, p. 1147.

LIIAS, R. A.; RHODES, J. M., 1985, Basalt heterogeneity along the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 18, p. 403.

LIIAS, R. A.; RHODES, J. M., 1985, Geochemistry and petrogenesis of basalts from the Juan de Fuca Ridge [abstract]: Geological Society of America Abstracts with Programs, v. 17, no. 7, p. 644.

LIIAS, R. A.; RHODES, J. M.; DELANEY, J. R.; JOHNSON, H. P., 1981, Trace element variation along the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 62, no. 45, p. 1067.

LILLEY, M. D., see KADKO, D. [and others], 1986.

LILLEY, M. D., see MCDUFF, R. E. [and others], 1984.

LINDBERG, D. R., see HICKMAN, C. S. [and others], 1984.

LING, H.-Y., 1966, The radiolarian Protocystis thomsoni (Murray) in the northeast Pacific Ocean: Micropaleontology, v. 12, no. 2, p. 203-214.

LING, H.-Y., 1968, Radiolaria in surface sediments of northeast Pacific Ocean [abstract]: American Association of Petroleum Geologists Bulletin, v. 52, no. 3, p. 538.

LING, H.-Y., see GROSS, M. G. [and others], 1967.

LINGBLOOM, K. L., see SCHWARTZ, M. L. [and others], 1973.

LISOWSKI, M., see SAVAGE, J. C. [and others], 1981.

LISTER, C. R. B., 1969, Studies of oceanic tectonics utilizing detailed surveying and stratigraphy: Bulletin Volcanologique, v. 33, no. 1, p. 311-318.

LISTER, C. R. B., 1972, repr. 1980, On the thermal balance of a mid-ocean ridge. In Rona, P. A.; Lowell, R. P., editors, 1980, Seafloor spreading centers--Hydrothermal systems: Dowden, Hutchinson and Ross Benchmark Papers in Geology 56, p. 92-115.

LISTER, C. R. B.; MCMANUS, D. A., 1968, Detailed geophysical study on the flank of Juan de Fuca Ridge [abstract]: American Geophysical Union Transactions, v. 49, no. 1, p. 208.

LISTER, C. R. B., see DAVIS, E. E. [and others], 1972.

LISTER, C. R. B., see DAVIS, E. E. [and others], 1977.

LISTER, C. R. B., see MORAN, J. E. [and others], 1985.

LOGAN, LEWIS, see HART, ROGER [and others], 1982.

LOUBERE, P. W., see KULM, L. D. [and others], 1984.

LOUBERE, P. W., see PETERSON, C. P. [and others], 1984.

LUEPKE, GRETCHEN, 1980, Bibliography of the geology of the Oregon-Washington continental shelf and coastal zone, 1899-1978: U.S. Geological Survey Open-File Report 80-467, 26 p.

LUKEN, M. D., see MOORE, G. W. [and others], 1979.

LUPTON, J. E., 1982, Helium isotope variations in Juan de Fuca Ridge basalts [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 45, p. 1147.

LUPTON, J. E., 1985, Effluent plume over the Endeavour Ridge hydrothermal site, northeast Pacific [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 929-930.

LUPTON, J. E., 1985, Vertical transport of deep ocean water by submarine hydrothermal vents [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 51, p. 1308.

LUPTON, J. E.; DELANEY, J. R.; JOHNSON, M. P.; TIVEY, M., 1984, Water-column temperature anomalies near an active deep-sea hydrothermal vent [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 975.

LUPTON, J. E.; JOHNSON, H. P.; DELANEY, J. R., 1981, Hydrothermal helium-3 on the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 62, no. 45, p. 913-914.

LUPTON, J. E., see CASM RESEARCH GROUP [and others], 1983.

LUPTON, J. E., see CRANE, KATHLEEN [and others], 1985.

LUPTON, J. E., see DELANEY, J. R. [and others], 1984.

LUPTON, J. E., see KADKO, D. [and others], 1984.

LUPTON, J. E., see KADKO, D. [and others], 1986.

LUPTON, J. E., see MCDUFF, R. E. [and others], 1983.

LUPTON, J. E., see MCDUFF, R. E. [and others], 1984.

MACLEOD, N. S., see SNAVELY, P. D., JR. [and others], 1969.

MACLEOD, N. S., see SNAVELY, P. D., JR. [and others], 1976.

MACLEOD, N. S., see SNAVELY, P. D., JR. [and others], 1977.

MACNAB, R., see ELVERS, D. J. [and others], 1972.

MACNAB, R., see SEIDEL, DEAN [and others], 1973.

MAIR, J. A., see ELLIS, R. M. [and others], 1983.

MAIRS, H.; LEINEN, MARGARET; OAKMAN, M. R.; JENKINS, J., 1985, A 600 ky record of hydrothermal sedimentation in the vicinity of the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 930.

MALAHOFF, ALEXANDER, 1985, Hydrothermal vents and polymetallic sulfides of the Galapagos and Gorda/Juan de Fuca Ridge systems and of submarine volcanoes: Bio-

logical Society of Washington Bulletin, no. 6, p. 19-41.

MALAHOFF, ALEXANDER; EMBLEY, R. W.; HAMMOND, S. R., 1982, A seabeam study of the Juan de Fuca and Gorda Ridge axial rift processes [abstract]: Geological Society of America Abstracts with Programs, v. 14, no. 7, p. 554.

MALAHOFF, ALEXANDER; EMBLEY, R. W.; HAMMOND, S. R., 1983, Submarine volcanism and hydrothermal activity along the northern end of the Juan de Fuca Ridge axis [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 45, p. 889.

MALAHOFF, ALEXANDER; EMBLEY, R. W.; HAMMOND, S. R.; WYAN, W.; CRANE, KATHLEEN, 1982, Juan de Fuca and Gorda Ridge axial ridge morphology and tectonics from combined SEABEAM and SEA MARC data [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 45, p. 1147.

MALAHOFF, ALEXANDER; RIDDIHOUGH, R. P., 1984, Tectonics of the Explorer Ridge and Sovanco fracture zone, N.E. Pacific Ocean [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1111.

MALAHOFF, ALEXANDER, see CRANE, KATHLEEN [and others], 1985.

MALAHOFF, ALEXANDER, see CURRIE, R. G. [and others], 1984.

MALAHOFF, ALEXANDER, see DAVIS, E. E. [and others], 1984.

MALAHOFF, ALEXANDER, see HAMMOND, S. R. [and others], 1981.

MALAHOFF, ALEXANDER, see HAMMOND, S. R. [and others], 1982.

MALAHOFF, ALEXANDER, see HAMMOND, S. R. [and others], 1983.

MALAHOFF, ALEXANDER, see HAMMOND, S. R. [and others], 1984.

MALAHOFF, ALEXANDER, see MCMURTRY, G. M. [and others], 1984.

MANHEIM, F. T.; HESS, H. D., 1981, Offshore hard minerals around the U.S. continental margins: Offshore Technology Conference, 13th, Houston, 1981, 16 p.

MANHEIM, F. T.; VINE, ALLYN, 1986, E.E.Z. may have waste disposal options: Geotimes, v. 31, no. 12, p. 8-10.

MANN, D. C., see HEDGES, J. I. [and others], 1979.

MANN, D. M.; SNAVELY, P. D., JR., 1984, Multichannel seismic-reflection profiles collected in 1977 in the eastern Pacific Ocean off of the Washington/Oregon coast: U.S. Geological Survey Open-File Report 84-5, 3 p., 1 plate.

MARLOW, M. S., see SCHOLL, D. W. [and others], 1974.

MASSOGLIA, M. F., COMPILER, 1977, Conference/workshop proceedings--Recommendations for baseline research in Washington and Oregon relative to offshore resource development: U.S. Bureau of Land Management, 308 p.

MASSON, D. G., see EEZ-SCAN GROUP [and others], 1986.

MASSON, D. G., see GARDNER, J. V. [and others], 1986.

MASSON, D. G., see HAMPTON, M. A. [and others], 1986.

MASSOTH, G. J.; BAKER, E. T.; COWEN, J. P.; ROE, K. K.; APPRIOU, P. Y., 1985, The geochemical diversity of Juan de Fuca Ridge hydrothermal plumes [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 929.

MASSOTH, G. J.; FEELY, R. A.; CURL, H. C., JR., 1982, Hydrothermal manganese over the Juan de Fuca and Gorda Ridges [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 45, p. 1147.

MASSOTH, G. J.; FEELY, R. A.; CURL, H. C., JR.; BAKER, E. T., 1983, The geochemistry of particulate hydrothermal plumes over the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 45, p. 722-723.

MASSOTH, G. J., see BAKER, E. T. [and others], 1985.

MASSOTH, G. J., see FEELY, R. A. [and others], 1984.

MASSOTH, G. J., see MCMURTRY, G. M. [and others], 1984.

MASSOTH, G. J., see SUESS, ERWIN [and others], 1984.

MATHEZ, E. A., see YEATS, R. S. [and others], 1976.

MAXWELL, J. C., 1974, Early western margin of the United States. In Burk, C.A.; Drake, C.L., editors, 1974, The geology of continental margins: Springer-Verlag, p. 831-852.

MCCASLIN, J. C., 1965, Offshore Pacific Northwest--"Much ado about something...": Oil and Gas Journal, v. 63, no. 20, p. 165.

MCCLAIN, K. J., 1981, A geophysical study of accretionary processes on the Washington continental margin: University of Washington Doctor of Philosophy thesis, 141 p.

MCCLAIN, K. J., 1982, A geophysical study of accretionary processes on the Washington continental margin [abstract]: Dissertation Abstracts International, v. 42, no. 12, Section B, p. 4722-B.

MCCLAIN, K. J.; PEPER, J. S.; HOLMES, M. L., COMPILERS, 1984, Single channel seismic reflection records of western Washington margin and Cascadia basin. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 26.

MCCLAIN, K. J.; TABER, J. J., JR., COMPILERS, 1984, Regional seismic refraction. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 9.

MCCLAIN, K. J.; TABER, J. J., JR.; CROSSON, R. S.; LEWIS, B. T. R., 1981, Geophysical structure of the Washington active margin [abstract]: Geological Society of America Abstracts with Programs, v. 13, no. 7, p. 506.

MCCLAIN, K. J., see COWAN, D. S. [and others], 1986.

MCCOY, F. W.; SANCETTA, CONSTANCE, 1985, North Pacific sediments. In Nairn, A. E. M.; Stehli, F. G.; Uyeda, Seiya, editors, 1985, The Pacific Ocean: Plenum Press, The Ocean Basins and Margins, v. 7A, p. 1-64.

MCCULLOCH, D. S.; SNAVELY, P. D., JR., 1978, Oil and gas resources of the outer continental shelf [abstract]: U.S. Geological Survey Professional Paper 1100, p. 23.

MCCULLOCH, D. S., see EEZ-SCAN GROUP [and others], 1986.

MCCULLOCH, D. S., see GARDNER, J. V. [and others], 1986.

MCDOWELL, T., see BENTON, J. [and others], 1979.

MCDUFF, R. E.; EDMOND, J. M.; JUNIPER, K.; LUPTON, J. E.; SCOTT, S. D., 1983, Chemistry of hydrothermal waters, 'Axial seamount,' Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 45, p. 723.

MCDUFF, R. E.; LUPTON, J. E.; KADKO, D.; LILLEY, M. D., 1984, Chemistry of hydrothermal fluids, Endeavor Ridge, northeast Pacific [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 975.

MCDUFF, R. E., see DELANEY, J. R. [and others], 1984.

MCDUFF, R. E., see THE MERGE GROUP [and others], 1984.

MCELWEE, K. R., COMPILERS, see DUNCAN, R. A. [and others], 1984.

MCFARLANE, B. E., see HARRIS, W. M. [and others], 1981.

MCGARY, NOEL, see MCMANUS, D. A. [and others], 1968.

MCGREGOR, B. A., see HOLSER, A. F. [and others], 1984.

MCGREGOR, B. A., see ROWLAND, R. W. [and others], 1983.

MCGREGOR, B. A., see ROWLAND, R. W. [and others], 1984.

MCKEE, B. A., see NITTROUER, C. A. [and others], 1983.

MCKELVEY, V. E., 1982, Subsea polymetallic sulfide deposits: U.S. National Oceanic and Atmospheric Administration Office of Policy and Planning, 11 p.

MCKELVEY, V. E., 1986, Subsea mineral resources: U.S. Geological Survey Bulletin 1689-A, 106 p.

MCKELVEY, V. E.; WANG, F. F. H., 1969, World subsea mineral resources: U.S. Geological Survey Miscellaneous Geologic Investigations Series Map I-632, 17 p., 4 sheets.

MCMANUS, D. A., 1964, Major bathymetric features near the coast of Oregon, Washington, and Vancouver Island: Northwest Science, v. 38, no. 3, p. 65-82.

MCMANUS, D. A., 1965, Bottom sediment types in Cascadia Basin, northeast Pacific Ocean [abstract]: Geological Society of America Special Paper 82, p. 264-265.

MCMANUS, D. A., 1965, Physiography of the sea floor between the Mendocino Ridge and Vancouver Island, northeast Pacific Ocean [abstract]: Geological Society of America Special Paper 82, p. 132.

MCMANUS, D. A., 1972, Bottom topography and sediment texture near the Columbia River mouth; Chapter 11. In Pruter, A. T.; Alverson, D. L., editors, 1972, The Columbia River estuary and adjacent ocean waters --Bioenvironmental studies: University of Washington Press, p. 241-253.

MCMANUS, D. A.; HOLMES, M. L.; CARSON, BOBB; BARR, S. M., 1972, Late Quaternary tectonics, northern end of Juan de Fuca Ridge (northeast Pacific): Marine Geology, v. 12, no. 2, p. 141-164.

MCMANUS, D. A.; MCGARY, NOEL, 1968, Topography of an intermediate borderland, the continental terrace off Washington [abstract]: Geological Society of America Special Paper 115, p. 145-146.

MCMANUS, D. A., see BARNARD, W. D. [and others], 1973.

MCMANUS, D. A., see CARSON, BOBB [and others], 1968.

MCMANUS, D. A., see CARSON, BOBB [and others], 1969.

MCMANUS, D. A., see CARSON, BOBB [and others], 1971.

MCMANUS, D. A., see DEHLINGER, PETER [and others], 1970.

MCMANUS, D. A., see GROSS, M. G. [and others], 1963.

MCMANUS, D. A., see GROSS, M. G. [and others], 1967.

MCMANUS, D. A., see KELLEY, J. C. [and others], 1968.

MCMANUS, D. A., see KELLEY, J. C. [and others], 1969.

MCMANUS, D. A., see KELLEY, J. C. [and others], 1970.

MCMANUS, D. A., see LISTER, C. R. B. [and others], 1968.

MCMANUS, D. A., see STERNBERG, R. W. [and others], 1972.

MCMANUS, D. A., see VENKATARATHNAM, KOLLA [and others], 1969.

MCMANUS, D. A., see VENKATARATHNAM, KOLLA [and others], 1973.

MCMURTRY, G. M.; MALAHOFF, ALEXANDER; FEELY, R. A.; MASSOTH, G. J., 1984, Geology and chemistry of hydrothermal nontronite deposits from the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1112.

MCMURTRY, G. M., see FEELY, R. A. [and others], 1984.

MCNUTT, MARCIA, 1979, Compensation of oceanic topography--An application of the response function technique to the Surveyor area: Journal of Geophysical Research, v. 84, no. B13, p. 7589-7598.

MCWILLIAMS, R. G., 1978, Early Tertiary rifting in western Oregon-Washington: American Association of Petroleum Geologists Bulletin, v. 62, no. 7, p. 1193-1197.

MELSON, W. G.; VALLIER, T. L.; WRIGHT, T. L.; BYERLY, G. R.; NELEN, JOSEPH, 1976, Chemical diversity of abyssal volcanic glass erupted along Pacific, Atlantic, and Indian Ocean sea-floor spreading centers. In Sutton, G. H.; Manghnani, M. H.;et al, eds., 1976, The geophysics of the Pacific Ocean basin and its margin: American Geophysical Union Geophysical Monograph 19, p. 351-367.

MELSON, W. G., see DUNCAN, J. R. [and others], 1969.

MENARD, H. W., 1969, Growth of drifting volcanos: Journal of Geophysical Research, v. 74, no. 20, p. 4827-4837.

MENARD, H. W., see ATWATER, T. M. [and others], 1970.

MENARD, H. W., see SHOR, G. G., JR. [and others], 1970.

THE MERGE GROUP (KARSTEN, J. L.; DELANEY, J. R.; JOHNSON, P.; GOLDFARB, M.; KELLEY, D.; MCDUFF, R. E.; TIVEY, M. K.; TIVEY, M.; DYMOND, JACK; AND OTHERS), 1984, Regional setting and local character of a hydrothermal field/sulfide deposit on the Endeavor segment of the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1111.

MERRILL, R. T.; BURNS, R. E., 1972, A detailed magnetic study of Cobb Seamount: Earth and Planetary Science Letters, v. 14, no. 3, p. 413-418.

MERRILL, R. T., see JOHNSON, H. P. [and others], 1972.

MESECAR, R. S., see KORGEN, B. J. [and others], 1971.

MICHAEL, L. H., 1977, Chemical oceanography considerations. In Massoglia, M. F., compiler, 1977, Conference/workshop proceedings--Recommendations for baseline research in Washington and Oregon relative to offshore resource development: U.S. Bureau of Land Management, p. 137-138.

MICHAEL, P. J.; CHASE, R. L., 1985, Trace element and Sr-isotope variations in basalts from the Explorer, Dellwood and Tuzo Wilson spreading segments and seamounts, northeast Pacific [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 926.

MICHAEL, P. J., see SCOTT, S. D. [and others], 1986.

MICHAELSON, C. A.; WEAVER, C. S., 1986, Upper mantle structure from teleseismic P wave arrivals in Washington and northern Oregon: Journal of Geophysical Research, v. 91, no. B2, p. 2077-2094.

MICHAELSON, C. A., see WEAVER, C. S. [and others], 1983.

MICHAELSON, C. A., see WEAVER, C. S. [and others], 1985.

MIDDLETON, J. H., see THOMSON, R. E. [and others], 1985.

MIELKE, J. E., see VAN DER VOORT, J. L. [and others], 1982.

MILLER, C. P., see CHASE, T. E. [and others], 1981.

MOLNAR, PETER, see ROSA, J. W. C. [and others], 1986.

MOORE, G. W.; LUKEN, M. D., 1979, Offshore sand and gravel resources of the Pacific Northwest: Oregon Geology, v. 41, no. 9, p. 143-151.

MOORE, J. C., JR., see DAUPHIN, J. P. [and others], 1973.

MORAN, J. E.; LISTER, C. R. B., 1985, A heat flow profile across Cascadia Basin [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 1059.

MORGAN, C.; RHODES, J. M., 1985, Geochemistry of basalts from the Cobb "hot spot" astride the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 18, p. 403.

MORGAN, W. J., 1968, Pliocene reconstruction of the Juan de Fuca Ridge [abstract]: American Geophysical Union Transactions, v. 49, no. 1, p. 327.

MORGAN, W. J., see DUNCAN, J. R. [and others], 1969.

MORLEY, JOSEPH, see ELVERS, D. J. [and others], 1973.

MORLEY, JOSEPH, see SEIDEL, DEAN [and others], 1973.

MORSE, B.-A.; GROSS, M. G.; BARNES, C. A., 1967, Movement of sea-bed drifters near the Columbia River: American Society of Civil Engineers conference preprint 498, 21 p.; University of Washington Department of Oceanography Contribution 428.

MORSE, B.-A.; GROSS, M. G.; BARNES, C. A., 1968, Movement of seabed drifters near the Columbia River: American Society of Civil Engineers Journal of the Waterways and Harbors Division, v. 94, no. WW-1, p. 93-103; Amer. Soc. Civil Eng. Proceedings, Paper 5817.

MULLEN, E. D., 1983, MnO/TiO2/P2O5--A minor element discriminant for basaltic rocks of oceanic environments and its implications for petrogenesis: Earth and Planetary Science Letters, v. 62, p. 53-62.

MURNANE, RICHARD; CLAGUE, D. A., 1982, Nontronite from an immature hydrothermal system on the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 45, p. 1146.

MURPHY, K. M.; FOX, C. G.; EMBLEY, R. W.; LAU, T.-K. A.; HAMMOND, S. R., 1986, Classification and graphic display of bottom photography for geologic mapping [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 1002.

MURRAY, J. W., see GRUNDMANIS, VARIS [and others], 1978.

MURRAY, J. W., see JONES, C. J. [and others], 1980.

MURRAY, J. W., see JONES, C. J. [and others], 1984.

MURRAY, J. W., see JONES, C. J. [and others], 1985.

MYERS, P. B., JR., see CARSON, BOBB [and others], 1974.

NATIONAL ADVISORY COMMITTEE ON OCEANS AND ATMOSPHERE, 1983, Marine minerals--An alternative mineral supply; National ocean goals and objectives for the 1980's: U.S. Government Printing Office, 52 p.

NATIONAL RESEARCH COUNCIL PANEL ON ASSESSMENT OF FATES AND EFFECTS OF DRILLING FLUIDS AND CUTTINGS IN THE MARINE ENVIRONMENT, 1983, Drilling discharges in the marine environment: National Academy Press, 180 p.

NAYUDU, Y. R., 1959, Recent sediments of the northeast Pacific: University of Washington Doctor of Philosophy thesis, 217 p.

NAYUDU, Y. R., 1964, Carbonate deposits and paleoclimatic implications in the northeast Pacific Ocean: Science, v. 146, no. 3643, p. 515-517.

NAYUDU, Y. R.; CHASTAIN, CHARLETTE; WIENKE, S. M.; LATTERELL, H. M., 1969, Petrology of Cobb Seamount [abstract]: Geological Society of America Special Paper 121, p. 215-216.

NAYUDU, Y. R.; CHASTAIN, CHARLETTE; WOODRUFF, J. L., 1968, Morphology and petrology of two seamounts on Eickelberg Ridge [abstract]: Geological Society of America Special Paper 115, p. 343.

NAYUDU, Y. R.; ENBYSK, B. J., 1964, Biolithology of northeast Pacific surface sediments: Marine Geology, v. 2, no. 4, p. 310-342.

NAYUDU, Y. R., see DYMOND, J. R. [and others], 1968.

NELEN, JOSEPH, see MELSON, W. G. [and others], 1976.

NELSON, C. H., 1968, Marine geology of Astoria deep sea fan, 1968: Oregon State University Doctor of Philosophy thesis, 287 p.

NELSON, C. H., 1969, Marine geology of Astoria deep-sea fan [abstract]: Dissertation Abstracts International, v. 29, no. 8, Section B, p. 3018-B-3019-B.

NELSON, C. H., 1985, Astoria Fan, Pacific Ocean. In Bouma, A. H.; Normark, W. R.; Barnes, N. E., editors, 1985, Submarine fans and related turbidite systems: Springer-Verlag Frontiers in Sedimentary Geology, p. 45-50.

NELSON, C. H.; BYRNE, J. V., 1969, Astoria fan, a model for deep-sea fan deposition [abstract]: Geological Society of America Special Paper 121, p. 218.

NELSON, C. H.; CARLSON, P. R.; BYRNE, J. V.; ALPHA, T. R., 1970, Development of the Astoria Canyon-fan physiography and comparison with similar systems: Marine Geology, v. 8, no. 3-4, p. 259-291.

NELSON, C. H.; KULM, L. D.; CARLSON, P. R.; DUNCAN, J. R., 1968, Mazama ash in the northeastern Pacific: Science, v. 161, no. 3836, p. 47-49.

NELSON, C. H.; NILSEN, T. H., 1974, Depositional trends of modern and ancient deep-sea fans. In Dott, R. H., Jr.; Shaver, R. H., editors, 1974, Modern and ancient geosynclinal sedimentation: Society of Economic Paleontologists and Mineralogists Special Publication 19, p. 69-91.

NELSON, C. H.; NORMARK, W. R.; BOUMA, A. H.; CARLSON, P. R., 1978, Thin-bedded turbidites in modern submarine canyons and fans. In Stanley, D. J.; Kelling, Gilbert, editors, 1978, Sedimentation in submarine canyons, fans and trenches: Dowden, Hutchinson and Ross, p. 177-189.

NELSON, C. H., see CARLSON, P. R. [and others], 1969.

NELSON, C. H., see STOW, D. A. V. [and others], 1985.

NELSON, D., see TUNNICLIFFE, VERENA [and others], 1983.

NELSON, H., 1976, Late Pleistocene and Holocene depositional trends, processes and history of Astoria deep-sea fan, northeast Pacific: Marine Geology, v. 20, no. 2, p. 129-173.

NELSON, J. L., see GROSS, M. G. [and others], 1966.

NESMEYANOV, D. V., see SOKOLOV, B. A. [and others], 1976.

NESS, G., see CONNARD, GERRY [and others], 1984.

NEWHOUSE, C. J., see NEWTON, V. C., JR. [and others], 1964.

NEWTON, V. C., JR., 1964, Activity increasing in the Northwest: Drilling, v. 25, no. 11, p. 46-48.

NEWTON, V. C., JR., 1967, Summary of oil and gas exploration off the coast of Oregon and Washington, 1961-1966: Ore Bin, v. 29, no. 2, p. 17-32.

NEWTON, V. C., JR.; NEWHOUSE, C. J., 1964, Oil leasing on the outer continental shelf adjacent to Oregon and Washington: Ore Bin, v. 26, no. 11, p. 189-208.

NEWTON, V. C., JR., see DEACON, R. J. [and others], 1965.

NIEM, A. R.; NIEM, W. A.; JOHNSON, S. Y.; BRANDON, M. T.; STEWART, R. J., 1984, Legend for geology and cross sections. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 16.

NIEM, A. R., see JOHNSON, S. Y. [and others], 1984.

NIEM, W. A., see JOHNSON, S. Y. [and others], 1984.

NIEM, W. A., see NIEM, A. R. [and others], 1984.

NIENABER, W., see CHEN, J. [and others], 1986.

NIENABER, W., see DOSSO, H. W. [and others], 1985.

NILSEN, T. H., see NELSON, C. H. [and others], 1974.

NISHIMURA, C. E.; WILSON, D. S.; HEY, R. N., 1981, Present-day subduction of the Juan de Fuca plate [abstract]: Eos (American Geophysical Union Transactions), v. 62, no. 17, p. 404.

NISHIMURA, C. E.; WILSON, D. S.; HEY, R. N., 1984, Pole of rotation analysis of present-day Juan de Fuca plate motion: Journal of Geophysical Research, v. 89, no. B12, p. 10,283-10,290.

NISHIMURA, C. E., see WILSON, D. S. [and others]. 1982.

NISHIMURA, C. E., see WILSON, D. S. [and others], 1984.

NITTROUER, C. A., 1978, The process of detrital sediment accumulation in a continental shelf environment--An examination of the Washington shelf: University of Washington Doctor of Philosophy thesis, 243 p.

NITTROUER, C. A., 1978, The process of detrital sediment accumulation in a continental shelf environment--An examination of the Washington shelf [abstract]: Dissertation Abstracts International, v. 39, no. 5, Section B, p. 2189-B-2190-B.

NITTROUER, C. A.; DEMASTER, D. J.; MCKEE, B. A.; CUTSHALL, N. H.; LARSEN, I. L., 1983, The effect of sediment mixing on Pb-210 accumulation rates for the Washington continental shelf: Marine Geology, v. 54, no. 3-4, p. 201-221.

NITTROUER, C. A.; SMETHIE, W. M., JR.; SELF, R. F. L.; STERNBERG, R. W.; JUMARS, P. A., 1978, Observations of sediment mixing on the Washington shelf [abstract]: Eos (American Geophysical Union Transactions), v. 59, no. 12, p. 1109-1110.

NITTROUER, C. A.; STERNBERG, R. W., 1977, The new continental shelf sedimentology--A multi-systems approach to the investigation of allochthonous sedimentation [abstract]: Eos (American Geophysical Union Transactions), v. 58, no. 12, p. 1162.

NITTROUER, C. A.; STERNBERG, R. W., 1978, Shallow stratigraphy and Holocene sedimentation on the Washington continental shelf [abstract]: International Congress on Sedimentology, no. 10, v. 2, p. 473.

NITTROUER, C. A.; STERNBERG, R. W., 1980, The formation of sedimentary strata in a continental shelf environment [abstract]: International Geological Congress, 26th, 1980, Abstracts, v. 2, p. 526.

NITTROUER, C. A.; STERNBERG, R. W., 1981, The formation of sedimentary strata in an allochthonous shelf environment--The Washington continental shelf: Marine Geology, v. 42, no. 1/4, p. 201-232.

NITTROUER, C. A.; STERNBERG, R. W.; BORGELD, J. C., 1977, Sedimentary structures and their relationship to sedimentary processes on the Washington continental shelf [abstract]: Geological Society of America Abstracts with Programs, v. 9, no. 7, p. 1115-1116.

NITTROUER, C. A.; STERNBERG, R. W.; CARPENTER, ROY, 1976, Trends in modern sediment accumulation on the Washington continental shelf as delineated by Pb-210 studies [abstract]: Geological Society of America Abstracts with Programs, v. 8, no. 6, p. 1029.

NITTROUER, C. A.; STERNBERG, R. W.; CARPENTER, ROY; BENNETT, J. T., 1979, The use of Pb-210 geochronology as a sedimentological tool--Application to the Washington continental shelf: Marine Geology, v. 31, no. 3-4, p. 297-316.

NITTROUER, C. A.; STERNBERG, R. W.; HOLMES, M. L., 1977, Shallow stratigraphy and Holocene sedimentation on the Washington continental shelf [abstract]: Eos (American Geophysical Union Transactions), v. 58, no. 6, p. 404.

NITTROUER, C. A., see CARSON, BOBB [and others], 1982.

NITTROUER, C. A., see CARSON, BOBB [and others], 1986.

NITTROUER, C. A., see CUTSHALL, N. H. [and others], 1983.

NITTROUER, C. A., see CUTSHALL, N. H. [and others], 1986.

NITTROUER, C. A., see DEMASTER, D. J. [and others], 1983.

NITTROUER, C. A., see SMETHIE, W. M., JR. [and others], 1980.

NITTROUER, C. A., see SMETHIE, W. M., JR. [and others], 1981.

NITTROUER, C. A., see THORBJARNARSON, K. W. [and others], 1983.

NITTROUER, C. A., see THORBJARNARSON, K. W. [and others], 1986.

NOBES, D. C.; LAW, L. K., 1984, A controlled source electrical sounding of the ocean floor near the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 867.

NOBES, D. C.; VILLINGER, H.; DAVIS, E. E.; LAW, L. K., 1985, Prediction of bulk physical properties at depth for middle valley sediments, Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 52, p. 1361.

NOBES, D. C.; VILLINGER, H.; DAVIS, E. E.; LAW, L. K., 1986, Estimation of marine sediment bulk physical properties at depth from seafloor geophysical measurements:

Journal of Geophysical Research, v. 91, no. B14, p. 14,033-14,043.

NORMARK, W. R., see CHASE, T. E. [and others], 1976.

NORMARK, W. R., see CHASE, T. E. [and others], 1977.

NORMARK, W. R., see CHASE, T. E. [and others], 1981.

NORMARK, W. R., see WILDE, P. [and others], 1977.

OAKMAN, M. R.; LEINEN, MARGARET, 1985, Preliminary studies of oxidized sulfide deposits from the Endeavour segment, Juan de Fuca Ridge, and Explorer Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 927.

OAKMAN, M. R., see MAIRS, H. [and others], 1985.

OLMSTEAD, D. L., 1972, Clay mineralogy of the Washington continental slope: University of Washington Master of Science thesis, 40 p.

OLSEN, C. R., see CUTSHALL, N. H. [and others], 1983.

OLSEN, C. R., see CUTSHALL, N. H. [and others], 1986.

OREGON STATE UNIVERSITY HATFIELD MARINE SCIENCE CENTER, 1985, The Edwin P. Forsythe roundtable on ocean hard mineral development [proceedings]: Oregon State University, 109 p.

OSTERBERG, C. L.; KULM, L. D.; BYRNE, J. V., 1963, Gamma emitters in marine sediments near the Columbia River: Science, v. 139, no. 3558, p. 916-917.

PAK, H., see KADKO, D. [and others], 1986.

PALMER, JEB; DELANEY, J. R., 1987, Progressive merging of uniaxial and radial stress fields during ridge crest-hot spot convergence [abstract]: Eos (American Geophysical Union Transactions), v. 68, no. 16, p. 407.

PALMER, L. A., 1967, Marine terraces of California, Oregon, and Washington: University of California, Los Angeles Doctor of Philosophy thesis, 379 p.

PALMER, L. A., 1967, Marine terraces of California, Oregon, and Washington [abstract]: Dissertation Abstracts International, v. 28, no. 5, Section B, p. 1997-B.

PAVONI, N., 1971, Interpretation of the magnetic anomalies southwest of Vancouver Island: Schweizerische Mineralogische und Petrographische Mitteilungen, v. 51, no. 2-3, p. 565.

PAYTON, W. H.; LAVIN, P. M., 1987, Application of directional filtering to separate Juan de Fuca seamount magnetic anomalies from seafloor magnetic lineations [abstract]: Eos (American Geophysical Union Transactions), v. 68, no. 16, p. 289.

PEARL, J. E., see SNAVELY, P. D., JR. [and others], 1976.

PEARL, J. E., see SNAVELY, P. D., JR. [and others], 1977.

PEARL, J. E., see SNAVELY, P. D., JR. [and others], 1978.

PEARSON, W. C., 1975, A gravity study of the Juan de Fuca Ridge and Sovanco Fracture Zone in the northeast Pacific Ocean: University of Washington Doctor of Philosophy thesis, 135 p.

PEPER, J. S., see CONNARD, GERRY [and others], 1984.

PEPER, J. S., see KULM, L. D. [and others], 1984.

PEPER, J. S., see MCCLAIN, K. J. [and others], 1984.

PEPER, J. S., see PETERSON, C. P. [and others], 1984.

PERKINS, D. M.; THENHAUS, P. C.; HANSON, S. L.; ZIONY, J. I.; ALGERMISSEN, S. T., 1980, Probabilistic estimates of maximum seismic horizontal ground motion on rock in the Pacific Northwest and the adjacent outer continental shelf: U.S. Geological Survey Open-File Report 80-471, 39 p., 7 plates.

PETER, GEORGE, 1969, Magnetic structural provinces in the northeast Pacific Ocean [abstract]: Eos (American Geophysical Union Transactions), v. 50, no. 4, p. 188.

PETER, GEORGE; DEWALD, O. E., 1971, Deformation of the sea floor off the northwest coast of the United States: Nature, Physical Science, v. 232, no. 31, p. 97-98.

PETER, GEORGE; LATTIMORE, ROBERT, 1969, Magnetic structure of the Juan de Fuca-Gorda Ridge area: Journal of Geophysical Research, v. 74, no. 2, p. 586-593.

PETER, J. M., see HANNINGTON, M. D. [and others], 1986.

PETERMAN, Z. E., see HEDGE, C. E. [and others], 1970.

PETERSON, C. D.; BINNEY, S. E., 1987, Fingerprinting economic heavy minerals and sources of marine placers in the Pacific Northwest by instrumental neutron activa-

tion analysis [abstract]. In Pacific Northwest Metals and Minerals Conference, 1987, Abstracts: American Institute of Mining, Metallurgical, and Petroleum Engineers, p. 7.

PETERSON, C. D., see KULM, L. D. [and others], 1986.

PETERSON, C. P.; LOUBERE, P. W.; KULM, L. D.; PEPER, J. S., COMPILERS, 1984, Stratigraphy of continental shelf and coastal region. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 30.

PETERSON, C. P., see KULM, L. D. [and others], 1984.

PETERSON, M. L., see CARPENTER, ROY [and others], 1981.

PETERSON, M. L., see CARPENTER, ROY [and others], 1982.

PHILLIPS, R. L., 1979, Heavy minerals and bedrock minerals on the continental shelf off Washington, Oregon and California: U.S. Geological Survey, 56 p. [NTIS PB 81-192601],(QE176 O4 P562h 1979)

PIPER, D. J. W., 1978, Turbidite muds and silts on deepsea fans and abyssal plains. In Stanley, D. J.; Kelling, Gilbert, editors, 1978, Sedimentation in submarine canyons, fans and trenches: Dowden, Hutchinson and Ross, p. 163-176.

PITMAN, W. C., III, 1967, Magnetic anomalies in the Pacific and ocean floor spreading: Columbia University Doctor of Philosophy thesis, 82 p.

PITMAN, W. C., III, 1967, Magnetic anomalies in the Pacific and ocean floor spreading [abstract]: Dissertation Abstracts International, v. 28, no. 5, Section B, p. 1998-B.

PITMAN, W. C., III; HERRON, E.; HEIRTZLER, J. R., 1968, Magnetic anomalies in the Pacific and ocean floor spreading: Journal of Geophysical Research, v. 73, no. 6, p. 2069-2085.

PITMAN, W. C., III, see HAYES, D. E. [and others], 1970.

PITTS, G. S., see CONNARD, GERRY [and others], 1984.

PITTS, P., see CONNARD, GERRY [and others], 1984.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract]: Geological Society of America Abstracts with Programs, v. 14, no. 7, p. 591-592.

POTTER, C. J., see COWAN, D. S. [and others], 1986.

POTTER, KENNETH, see ELVERS, D. J. [and others], 1973.

POTTER, KENNETH, see SEIDEL, DEAN [and others], 1972.

POTTER, KENNETH, see SEIDEL, DEAN [and others], 1973.

PRAHL, F. G., 1980, Anthracene distributions in sediment cores from the Washington continental shelf [abstract]: Eos (American Geophysical Union Transactions), v. 61, no. 46, p. 1000.

PRAHL, F. G., 1984, Hopene for greater sedimentological understanding [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 951.

PRAHL, F. G., 1985, Chemical evidence of differential particle dispersal in the southern Washington coastal environment: Geochimica et Cosmochimica Acta, v. 49, no. 12, p. 2533-2539.

PRAHL, F. G.; CARPENTER, ROY, 1983, Polycyclic aromatic hydrocarbon (PAH)-phase associations in Washington coastal sediment: Geochimica et Cosmochimica Acta, v. 47, p. 1013-1023.

PRAHL, F. G.; CARPENTER, ROY, 1984, Hydrocarbons in Washington coastal sediments: Estuarine, Coastal and Shelf Science, v. 18, p. 703-720.

PRESCOTT, W. H., see SAVAGE, J. C. [and others], 1981.

PRICE, N. B.; CALVERT, S. E., 1970, Compositional variation in Pacific Ocean ferromanganese nodules and its relationship to sediment accumulation rates: Marine Geology, v. 9, p. 145-171.

PRICE, W., see HYNDMAN, R. D., COMPILER [and others], 1983.

PRICE, W., see RIDDIHOUGH, R. P., COMPILER [and others], 1984.

QAMAR, ANTHONY see POTTER, C. J. [and others], 1982.

RAFF, A. D., 1966, Boundaries of an area of very long magnetic anomalies in the northeast Pacific: Journal of Geophysical Research, v. 71, no. 10, p. 2631-2636.

RAITT, R. W., see SHOR, G. G., JR. [and others], 1970.

RAU, W. W.; WAGNER, H. C., 1974, Oil and gas in Washington. In Washington Division of Geology and Earth Resources, 1974, Energy resources of Washington: Washington Division of Geology and Earth Resources Information Circular 50, p. 63-81.

RENARD, V., see DAVIS, E. E. [and others], 1983.

RENFRO, W. C., see CUTSHALL, N. H. [and others], 1971.

RHODES, J. M., see LIIAS, R. A. [and others], 1981.

RHODES, J. M., see LIIAS, R. A. [and others], 1982.

RHODES, J. M., see LIIAS, R. A. [and others], 1985.

RHODES, J. M., see MORGAN, C. [and others], 1985.

RIDDIHOUGH, R. P., 1978, The Juan de Fuca Plate: Eos (American Geophysical Union Transactions), v. 59, no. 9, p. 836-842.

RIDDIHOUGH, R. P., 1979, Gravity and structure of an active margin--British Columbia and Washington: Canadian Journal of Earth Sciences, v. 16, no. 2, p. 350-363; Canada Earth Physics Branch Contribution 763.

RIDDIHOUGH, R. P., 1981, Absolute motions of the Juan de Fuca plate system--Resistance to subduction? [abstract]: Eos (American Geophysical Union Transactions), v. 62, no. 45, p. 1035.

RIDDIHOUGH, R. P., 1983, Juan de Fuca Plate map--Gravity [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 9, p. 88.

RIDDIHOUGH, R. P., 1983?, Recent plate motions: Energy, Mines and Resources Canada, Earth Physics Branch, Juan de Fuca Plate map JFP-9, Open file report 83-6, 1 sheet, scale 1:2,000,000.

RIDDIHOUGH, R. P., 1984, The geometry of the subducted Juan de Fuca plate [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 17, p. 330.

RIDDIHOUGH, R. P., 1984, Recent movements of the Juan de Fuca plate system: Journal of Geophysical Research, v. 89, no. B8, p. 6980-6994.

RIDDIHOUGH, R. P.; BECK, M. E., JR.; CHASE, R. L.; DAVIS, E. E.; HYNDMAN, R. D.; JOHNSON, S. H.; ROGERS, G. C., 1983, Geodynamics of the Juan de Fuca Plate. In Cabre, Ramon, editor, 1983, Geodynamics of the eastern Pacific region, Caribbean and Scotia Arcs: American Geophysical Union/ Geological Society of America Inter-Union Commission on Geodynamics, Geodynamics Series, v. 9, p. 5-21.

RIDDIHOUGH, R. P.; HYNDMAN, R. D., 1977, The recent interaction between continent and ocean floor in the Pacific Northwest [abstract]: Geological Society of America Abstracts with Programs, v. 9, no. 7, p. 1141-1142.

RIDDIHOUGH, R. P., COMPILER; PRICE, W.; FRANKLIN, R., PREPARERS, 1984, Magnetic anomalies: Energy, Mines and Resources Canada, Earth Physics Branch, Juan de Fuca Plate map JFP-11, Open file report 85-20, 1 sheet, scale 1:2,000,000.

RIDDIHOUGH, R. P.; ROGERS, G. C.; HYNDMAN, R. D., 1985, Juan de Fuca Plate map series --Recent plate motions, geothermal heat flux, magnetic anomalies [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 3, p. 26.

RIDDIHOUGH, R. P., see BORNHOLD, B. D. [and others], 1986.

RIDDIHOUGH, R. P., see CURRIE, R. G. [and others], 1984.

RIDDIHOUGH, R. P., see DAVIS, E. E. [and others], 1982.

RIDDIHOUGH, R. P., see DAVIS, E. E. [and others], 1984.

RIDDIHOUGH, R. P., see DAVIS, E. E. [and others], 1985.

RIDDIHOUGH, R. P., see LEVI, S. [and others], 1985.

RIDDIHOUGH, R. P., see MALAHOFF, ALEXANDER [and others], 1984.

RIDDIHOUGH, R. P., see ROGERS, G. C. [and others], 1978.

RIDDIHOUGH, R. P., see SAWYER, B. S. [and others], 1984.

RIDDIHOUGH, R. P., see YORATH, C. J. [and others], 1984.

RIEL, G. K., see GROSS, M. G. [and others], 1964.

RINEHART, W. A., see DEHLINGER, PETER [and others], 1966.

RITGER, S. D., 1985, Methane-derived authigenic carbonates formed by subduction-induced pore water explusion along the Oregon/Washington margin: Lehigh University Master of Science thesis, 66 p.

RITGER, S. D.; CARSON, BOBB; SUESS, ERWIN, 1987, Methane-derived authigenic carbonates formed by subduction-induced pore-water expulsion along the Oregon/Washington margin: Geological Society of America Bulletin, v. 98, no. 2, p. 147-156.

RITGER, S. D., see CARSON, BOBB [and others], 1984.

ROE, K. K., see MASSOTH, G. J. [and others], 1985.

ROGERS, G. C., COMPILER, 1979, Fault plane solutions: Energy, Mines and Resources Canada, Earth Physics Branch, Juan de Fuca Plate map JFP-6, 1 sheet, scale 1:200,000.

ROGERS, G. C., COMPILER, 1979, Seismicity to the end of 1977: Energy, Mines and Resources Canada, Earth Physics Branch, Juan de Fuca Plate map JFP-4, 1 sheet, scale 1:2,000,000.

ROGERS, G. C., 1983, Seismotectonics of the Juan de Fuca plate subduction zone [abstract]: Geological Association of Canada Program with Abstracts, v. 8, p. A58.

ROGERS, G. C., 1985, Variation in Cascade volcanism with margin orientation: Geology, v. 13, no. 7, p. 495-498.

ROGERS, G. C., 1985, Variation in Cascade volcanism with margin orientation [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 3, p. 24.

ROGERS, G. C., 1987, Megathrust potential of the Cascadia subduction zone [abstract]: Eos (American Geophysical Union Transactions), v. 68, no. 3, p. 46.

ROGERS, G. C.; RIDDIHOUGH, R. P., 1978, Base map for geoscience studies of the Juan de Fuca Plate; progress report [abstract]: Eos (American Geophysical Union Transactions), v. 59, no. 4, p. 233.

ROGERS, G. C., see BORNHOLD, B. D. [and others], 1986.

ROGERS, G. C., see RIDDIHOUGH, R. P. [and others], 1983.

ROGERS, G. C., see RIDDIHOUGH, R. P. [and others], 1985.

ROGERS, G. C., see WAHLSTROM, R. [and others], 1987.

RONA, P. A., 1983, Potential mineral and energy resources at submerged plate boundaries: Natural Resources Forum, v. 7, no. 4, p. 329-338.

ROSA, J. W. C.; MOLNAR, PETER, 1986, Uncertainties in reconstructions of the Pacific, Farallon, Vancouver and Kula plates and constraints on the rigidity of the Pacific and Farallon (and Vancouver) plates between 73 and 35 m.y. ago [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 1198.

ROTH, SHARON; DYMOND, JACK, 1985, Hydrothermal particle flux--Endeavour Ridge Phase I [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 930.

ROWLAND, R. W.; GOUD, M. R.; MCGREGOR, B. A., 1983, The U.S. Exclusive Economic Zone --A summary of its geology, exploration, and resource potential: U.S. Geological Survey Circular 912, 29 p.

ROWLAND, R. W.; MCGREGOR, B. A., 1984, Recommendations from the Department of the Interior EEZ Symposium. In Oceans Conference, 1984, 84 oceans; Conference record--Industry, government, education... designs for the future: Marine Technology Society; IEEE, p. 409-414.

ROWLAND, R. W., see HOLSER, A. F. [and others], 1981.

ROWLAND, R. W., see HOLSER, A. F. [and others], 1984.

ROY, J., see CONNARD, GERRY [and others], 1984.

ROY, J. L., see IRVING, E. [and others], 1968.

ROYSE, C. F., JR., 1964, Sediments of Willapa submarine canyon: University of Washington Department of Oceanography Technical Report 111, 62 p.

ROYSE, C. F., JR., 1964, Sediments of Willapa submarine canyon: University of Washington Master of Science thesis, 86 p.

ROYSE, C. F., JR., 1967, Mazama ash from the continental slope off Washington: Northwest Science, v. 41, no. 3, p. 103-109.

RUNGE, E. J., JR., 1966, Continental shelf sediments, Columbia River to Cape Blanco, Oregon: Oregon State University Doctor of Philosophy thesis, 143 p.

RUSSELL, K. L., 1967, Clay mineral origin and distribution on Astoria Fan: Oregon State University Master of Science thesis, 40 p.

RYAN, W. B. F., see DAVIS, E. E. [and others], 1984.

RYAN, W. B. F., see DAVIS, E. E. [and others], 1986.

RYAN, W. B. F., see KAPPEL, E. S. [and others], 1986.

SANCETTA, CONSTANCE, see MCCOY, F. W. [and others], 1985.

SANDS, W. C.; FENTON, D. R., 1966, Cobb Sea Mount [abstract]: American Geophysical Union Transactions, v. 47, no. 1, p. 256-257.

SAVAGE, J. C.; LISOWSKI, M.; PRESCOTT, W. H., 1981, Dislocation model for strain accumulation along the Washington coast [abstract]: Eos (American Geophysical Union Transactions), v. 62, no. 17, p. 404.

SAWYER, B. S.; RIDDIHOUGH, R. P.; DAVIS, E. E.; CURRIE, R. G., 1984, Sidelit and perspective imagery of the Juan de Fuca and Explorer Ridges [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1110.

SAWYER, B. S., see DAVIS, E. E. [and others], 1985.

SCAMMAN, R. L., 1981, Diagenetic carbonate cementation of clastic sediments near the sediment-water interface on the lower continental slope off Washington and northern Oregon: Lehigh University Master of Science thesis, 197 p.

SCAMMAN, R. L.; CARSON, BOBB, 1981, Secondary carbonate on the Washington-Oregon lower continental slope--Precipitation related to subduction? [abstract]: Geological Society of America Abstracts with Programs, v. 13, no. 7, p. 547.

SCHEIDEGGER, K. F., COMPILER, 1984, Thermal evolution of the Juan de Fuca Plate. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science Internation [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 8.

SCHEIDEGGER, K. F.; KRISSEK, L. A.; BABA, L., COMPILERS, 1984, Texture and mineralogy of continental margin sediments. In Kulm, L. D.; and others, editors, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington: Marine Science International [Woods Hole, Mass.] Ocean Drilling Program, Regional Atlas Series 1, p. 32.

SCHEIDEGGER, K. F., see KRISSEK, L. A. [and others], 1980.

SCHEIDEGGER, K. F., see KRISSEK, L. A. [and others], 1981.

SCHEIDEGGER, K. F., see KRISSEK, L. A. [and others], 1982.

SCHEIDEGGER, K. F., see KULM, L. D. [and others], 1979.

SCHELL, W. R., see TWISS, E. S. [and others], 1973.

SCHILLING, J.-G.; COUSENS, B.; CHASE, R. L.; DELANEY, J. R., 1982, Juan de Fuca-Explorer Ridge--Rare earth contents [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 45, p. 1154.

SCHOLL, D. W., 1974, Sedimentary sequences in the north Pacific trenches. In Burk, C. A.; Drake, C. L., editors, 1974, The geology of continental margins: Springer-Verlag, p. 493-504.

SCHOLL, D. W.; MARLOW, M. S., 1974, Sedimentary sequence in modern Pacific trenches and the deformed circum-Pacific eugeosyncline. In Dott, R. H., Jr.; Shaver, R. H., editors, 1974, Modern and ancient geosynclinal sedimentation: Society of Economic Paleontologists and Mineralogists Special Publication 19, p. 193-211.

SCHWARTZ, D. P., 1986, Subduction zone earthquakes in the Pacific Northwest--Evaluating the potential--Thoughts for discussion at the Seattle workshop. In Hays, W. W.; Gori, P. L., editors, 1986, Proceedings of conference XXXIII, "Earthquake hazards in the Puget Sound, Washington area,": U.S. Geological Survey Open File Report 86-253, p. 58-68.

SCHWARTZ, M. L., 1971, Seamounts as sea level indicators [abstract]: Geological Society of America Abstracts with Programs, v. 3, no. 7, p. 698.

SCHWARTZ, M. L., 1972, Seamounts as sea-level indicators: Geological Society of America Bulletin, v. 83, no. 10, p. 2975-2980.

SCHWARTZ, M. L.; LINGBLOOM, K. L., 1973, Research submersible reconnaissance of Cobb Seamount: Geology, v. 1, no. 1, p. 31-32.

SCHWARTZ, M. L.; LINGBLOOM, K. L., 1973, Research submersible reconnaissance of Cobb Seamount [abstract]: Geological Society of America Abstracts with Programs, v. 5, no. 1, p. 102.

SCHWELLER, W. J.; KULM, L. D., 1978, Depositional patterns and channelized sedimentation in active eastern Pacific trenches. In Stanley, D. J.; Kelling, Gilbert, 1978, Sedimentation in submarine canyons, fans, and trenches: Dowden, Hutchinson and Ross, Inc., p. 311-324.

SCOTT, S. D.; HANNINGTON, M. D.; CHASE, R. L.; MICHAEL, P. J., 1986, An overview of the southern Explorer (SER) and Juan de Fuca (JFR) Ridge systems and their sulfide deposits [abstract]: Geological Association of Canada Programme with Abstracts, v. 11, p. 125.

SCOTT, S. D., see CASM RESEARCH GROUP [and others], 1983.

SCOTT, S. D., see DELANEY, J. R. [and others], 1983.

SCOTT, S. D., see HANNINGTON, M. D. [and others], 1986.

SCOTT, S. D., see MCDUFF, R. E. [and others], 1983.

SEEKINS, B. A., see CHASE, T. E. [and others], 1981.

SEEMANN, D. A., see CURRIE, R. G. [and others], 1984.

SEIDEL, DEAN; ELVERS, D. J.; POTTER, KENNETH; MORLEY, JOSEPH; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO; IWABUCHI, YOSHIO; IIZUKA, SUSAMI; AND OTHERS, 1973, Gravity profiles--Northeast Pacific: Geotimes, v. 18, no. 3, p. 20-21.

SEIDEL, DEAN; POTTER, KENNETH; ELVERS, D. J.; IWABUCHI, YOSHIO, 1972, Systematic gravity measurements over the Gorda and Juan de Fuca Rises westward to the Surveyor and Sedna fracture zones (NOAA-IDOE, 1970) [abstract]: Eos (American Geophysical Union Transactions), v. 53, no. 4, p. 366.

SEIDEL, DEAN, see ELVERS, D. J. [and others], 1973.

SELF, R. F. L., see NITTROUER, C. A. [and others], 1978.

SELF, R. F. L., see SMETHIE, W. M., JR. [and others], 1981.

SEREGIN, A. M., see SOKOLOV, B. A. [and others], 1976.

SEYFRIED, W. E., JR., see SHANKS, W. C., III [and others], 1985.

SEYMOUR, A. H.; LEWIS, G. B., 1964, Radionuclides of Columbia River origin in marine organisms, sediments, and water collected from the coastal and offshore waters of Washington and Oregon, 1961-63: University of Washington Laboratory of Radiation Biology UWFL-86, 73 p.

SHANKS, W. C., III; SEYFRIED, W. E., JR., 1985, Sulfur isotopic fractionation, anhydrite dissolution, and sulfate reduction--Juan de Fuca Ridge and other seafloor hydrothermal vent systems [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 928-929.

SHEARER, C., see BENTON, J. [and others], 1979.

SHEPARD, F. P.; DILL, R. F., 1966, repr. 1976, Summary characteristics and dimensions of submarine canyons. In Whitaker, J. H. M., editor, 1976, Submarine canyons and deep-sea fans--Modern and ancient: Dowden, Hutchinson and Ross Benchmark Papers in Geology 24, p. 123-155.

SHEPHARD, L. E., 1981, Geotechnical properties of select convergent margin sediments: Texas A & M University Doctor of Philosophy thesis, 168 p.

SHEPHARD, L. E., 1982, Geotechnical properties of select convergent margin sediments [abstract]: Dissertation Abstracts International, v. 42, no. 10, Section B, p. 3992-B.

SHOR, G. G., JR.; MENARD, H. W.; RAITT, R. W., 1970, Structure of the Pacific Basin. Chapter 1 In Maxwell, A. E., editor, 1970, The sea--Ideas and observations on progress in the study of the seas; Vol. 4, New concepts of sea floor evolution; Part II, Regional observations, concepts: Wiley Interscience, p. 3-27.

SIDNEY, B. C., see YORATH, C. J. [and others], 1978.

SILVER, E. A., 1971, Small plate tectonics in the northeastern Pacific: Geological Society of America Bulletin, v. 82, no. 12, p. 3491-3496.

SILVER, E. A., 1972, Pleistocene tectonic accretion of the continental slope off Washington: Marine Geology, v. 13, no. 4, p. 239-249.

SILVER, E. A., 1973, The continental margin off California to Washington--A history of partial coupling between lithospheric plates [abstract]: Geological Society of America Abstracts with Programs, v. 5, no. 1, p. 106-107.

SILVER, E. A., 1975, Tectonic setting of the continental margin off the western United States [abstract]: Canadian Society of Petroleum Geologists Memoir 4, p. 894.

SILVER, E. A., 1978, Geophysical studies and tectonic development of the continental margin off the western United States, lat. 34 degrees to 48 degrees N. In Smith, R. B.; Eaton, G. P., editors, 1978, Cenozoic tectonics and regional geophysics of the western Cordillera: Geological Society of America Memoir 152, p. 251-262.

SILVER, E. A.; BARNARD, W. D., 1971, Pleistocene tectonics of the Washington continental slope [abstract]: Geological Society of America Abstracts with Programs, v. 3, no. 2, p. 193.

SILVER, L. A.; DELANEY, J. R., 1983, Melting experiments on Juan de Fuca Ridge basalts--Implications for petrogenesis [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 45, p. 888.

SIMKIN, THOMAS see DUNCAN, J. R. [and others], 1969.

SINTON, J. M.; CHRISTIE, D. M., 1982, Geochemical anomalies of the Blanco and Cobb propagating rifts--An evolutionary model [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 45, p. 1147.

SKORNYAKOVA, I. S., 1974, repr. 1980, Dispersed iron and manganese in Pacific Ocean sediments. In Rona, P.A.; Lowell, R.P., editors, 1980, Seafloor spreading centers--Hydrothermal systems: Dowden, Hutchinson and Ross Benchmark Papers in Geology 56, p. 169-182.

SKORNYAKOVA, N. S., 1979, Zonal regularities in occurrence, morphology and chemistry of manganese nodules of the Pacific Ocean. In Bischoff, J. L.; Piper, D. Z., editors, 1979, Marine geology and oceanography of the Pacific manganese nodule province: Plenum Press Marine Science, v. 9, p. 699-727.

SMETHIE, W. M., JR.; NITTROUER, C. A., 1980, The use of radon-222 as a tracer of sediment irrigation and mixing on the Washington continental shelf [abstract]: International Geological Congress Abstracts, 26th, 1980, v. 2, p. 543.

SMETHIE, W. M., JR.; NITTROUER, C. A.; SELF, R. F. L., 1981, The use of Radon-222 as a tracer of sediment irrigation and mixing on the Washington continental shelf: Marine Geology, v. 42, no. 1/4, p. 173-200.

SMETHIE, W. M., JR., see NITTROUER, C. A. [and others], 1978.

SMITH, J. D.; HOPKINS, T. S., 1971, Sediment transport of the continental shelf off of Washington and Oregon in light of recent current measurements [abstract]: Geological Society of America Abstracts with Programs, v. 3, no. 7, p. 710-711.

SMITH, J. D.; HOPKINS, T. S., 1972, Sediment transport on the continental shelf off of Washington and Oregon in light of recent current measurements. In Swift, D. J. P.; Duane, D. B.; Pilkey, O. H., 1972, Shelf sediment transport--Processes and pattern: Dowden, Hutchinson and Ross, 143-180.

SMITH, R. L., see HUYER, A. [and others], 1974.

SMITH, R. L., see HUYER, A. [and others], 1975.

SMITH, S. W., see TABER, J. J., JR. [and others], 1985.

SNAVELY, P. D., JR., 1979, Stratigraphic and tectonic framework, Oregon-Washington continental margin [abstract]: U.S. Geological Survey Professional Paper 1150, p. 149.

SNAVELY, P. D., JR., 1981, Geophysical data collected on the continental margin midway between Washington State and Vancouver Island, B. C., along line 19, USGS R/V S.P. Lee cruise 3-76: U.S. Geological Survey Open-File Report 81-895, 1 sheet, scale 1:250,000.

SNAVELY, P. D., JR., 1986, Tertiary evolution and petroleum potential of Oregon-Washington continental margin [abstract]: American Association of Petroleum Geologists Bulletin, v. 70, no. 7, p. 935.

SNAVELY, P. D., JR.; MACLEOD, N. S., 1969, Local centers of Miocene volcanism along coastal Oregon and Washington [abstract]: Northwest Science, v. 43, no. 1, p. 43.

SNAVELY, P. D., JR.; MACLEOD, N. S., 1977, Evolution of the Eocene continental margin of western Oregon and Washington [abstract]: Geological Society of America Abstracts with Programs, v. 9, no. 7, p. 1183.

SNAVELY, P. D., JR.; MACLEOD, N. S.; PEARL, J. E., 1976, Tectonic framework of the Strait of Juan de Fuca and the Pacific continental shelf [abstract]: U.S. Geological Survey Professional Paper 1000, p. 147-148.

SNAVELY, P. D., JR.; PEARL, J. E., 1978, Potential petroleum reservoirs within Tertiary melange, coastal Olympic Peninsula and adjacent OCS [abstract]: U.S. Geological Survey Professional Paper 1100, p. 78.

SNAVELY, P. D., JR.; PEARL, J. E.; LANDER, D. L., 1977, Interim report on petroleum resources potential and geologic hazards in the outer continental shelf--Oregon and Washington Tertiary province; with a section on Resource appraisal estimate, by E. W. Scott: U.S. Geological Survey Open-File Report 77-282, 64 p.

SNAVELY, P. D., JR.; PEARL, J. E.; LANDER, D. L., 1978, Petroleum resources potential and geologic hazards of the Oregon-Washington outer continental shelf [abstract]: U.S. Geological Survey Professional Paper 1100, p. 152.

SNAVELY, P. D., JR.; WAGNER, H. C., 1980, Generalized isopach map of Tertiary sedimentary rocks, western Oregon and Washington, and adjacent continental margin: U.S. Geological Survey Open-File Report 80-889, 3 p., 1 plate.

SNAVELY, P. D., JR.; WAGNER, H. C., 1981, Geologic cross section across the continental margin off Cape Flattery, Washington, and Vancouver Island, British Columbia:

U.S. Geological Survey Open-File Report 81-978, 5 p., 2 plates.

SNAVELY, P. D., JR.; WAGNER, H. C., 1982, Geologic cross section across the continental margin of southwestern Washington: U.S. Geological Survey Open-File Report 82-459, 10 p., 1 sheet.

SNAVELY, P. D., JR.; WAGNER, H. C., 1982, Geophysical data collected on the southern Washington continental shelf along line 12, USGS R/V S.P. Lee cruise 3-76: U.S. Geological Survey Open-File Report 82-424, 1 sheet.

SNAVELY, P. D., JR.; WAGNER, H. C., 1983, Geophysical data collected across the continental margin between Washington and Oregon along line 16, USGS R/V S. P. Lee cruise 11-80: U.S. Geological Survey Open-File Report 83-20, 1 sheet.

SNAVELY, P. D., JR.; WAGNER, H. C., 1984, Tectonic framework, continental margin of southwestern Washington [abstract]: U.S. Geological Survey Professional Paper 1375, p. 112.

SNAVELY, P. D., JR.; WELLS, R. E., 1984, Tertiary volcanic and intrusive rocks on the Oregon and Washington continental shelf: U.S. Geological Survey Open-File Report 84-282, 17 p., 3 plates.

SNAVELY, P. D., JR., see BRAISLIN, D. B. [and others], 1971.

SNAVELY, P. D., JR., see MANN, D. M. [and others], 1984.

SNAVELY, P. D., JR., see MCCULLOCH, D. S. [and others], 1978.

SNAVELY, P. D., JR., see POTTER, C. J. [and others], 1982.

SNYDER, G. W., 1984, Size distributions of suspended and bottom sediments in and around Quinault submarine canyon--Implications for modern sediment transport and accumulation off the Washington coast: Lehigh University Master of Science thesis, 90 p.

SNYDER, G. W.; CARSON, BOBB, 1982, Dispersal and accumulation of modern sediment in Quinault submarine canyon--Particle size, composition, and areal/temporal variability [abstract]: Geological Society of America Abstracts with Programs, v. 14, no. 7, p. 621.

SNYDER, G. W.; CARSON, BOBB, 1986, Bottom and suspended particle sizes--Implications for modern sediment transport in Quinault submarine canyon: Marine Geology, v. 71, no. 1/2, p. 85-105.

SNYDER, G. W.; CARSON, BOBB; BAKER, E. T., 1983, Sediment dispersal and accumulation in Quinault Canyon--Implications of particle size analysis [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 52, p. 1060.

SNYDER, G. W., see CARSON, BOBB [and others], 1984.

SNYDER, G. W., see CARSON, BOBB [and others], 1986.

SOKOLOV, B. A.; NESMEYANOV, D. V.; GAYNANOV, A. G.; SEREGIN, A. M., 1976, Geological structure and petroleum potential of the Pacific segment. In Sokolov, B. A.; Gayanov, A. G.; Nesmeyanov, D. V.; Seregin, A. M., 1976, Petroleum resources of seas and oceans: Mir Publishers [Moscow], p. 166-214.

SOMMER, M. A.; GIBSON, E. K., 1985, Volatile concentrations of submarine glasses from the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 926.

SPENCE, G. D., see CLOWES, R. M. [and others], 1983.

SPENCE, G. D., see ELLIS, R. M. [and others], 1983.

SPENCE, WILLIAM, 1986, Origins of stresses at the Cascadia subduction zone, U.S. Pacific Northwest [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 1115.

SPENCE, WILLIAM, 1986, Seismicity and tectonics. In Jacobson, M. L.; Rodriguez, T. R., compilers, 1986, National Earthquake Hazards Reduction Program, summaries of technical reports, volume XXIII: U.S. Geological Survey Open-File Report 87-63, p. 608-610.

SPENCER, C., see CLOWES, R. M. [and others], 1987.

SRIVASTAVA, S. P., see ELVERS, D. J. [and others], 1972.

SRIVASTAVA, S. P., see ELVERS, D. J. [and others], 1973.

SRIVASTAVA, S. P., see SEIDEL, DEAN [and others], 1973.

STERNBERG, R. W.; CREAGER, J. S.; GLASSLEY, W. E.; JOHNSON, J., 1977, Stability of dredged material deposited at ocean dumping sites seaward of Columbia River mouth [abstract]: American Association of Petroleum Geologists Bulletin, v. 61, no. 5, p. 833-834.

STERNBERG, R. W.; CREAGER, J. S.; JOHNSON, J.; GLASSLEY, W. E., 1979, Stability of

dredged material deposited seaward of the Columbia River mouth. In Palmer, H. D.; Gross, M. G., editors, 1979, Ocean dumping and marine pollution--Geological aspects of waste disposal: Dowden, Hutchinson and Ross, p. 17-49.

STERNBERG, R. W.; LARSEN, L. H., 1975, Threshold of sediment movement by open ocean waves--Observations: Deep-Sea Research and Oceanographic Abstracts, v. 22, no. 5, p. 299-309.

STERNBERG, R. W.; LARSEN, L. H., 1976, Frequency of sediment movement on the Washington continental shelf--A note: Marine Geology, v. 21, no. 3, p. M37-M47.

STERNBERG, R. W.; MCMANUS, D. A., 1972, Implications of sediment dispersal from long-term, bottom-current measurements on the continental shelf of Washington. In Swift, D. J. P.; Duane, D. B.; Pilkey, O. H., 1972, Shelf sediment transport--Processes and pattern: Dowden, Hutchinson and Ross, 181-194.

STERNBERG, R. W., see CREAGER, J. S. [and others], 1972.

STERNBERG, R. W., see NITTROUER, C. A. [and others], 1976.

STERNBERG, R. W., see NITTROUER, C. A. [and others], 1977.

STERNBERG, R. W., see NITTROUER, C. A. [and others], 1978.

STERNBERG, R. W., see NITTROUER, C. A. [and others], 1979.

STERNBERG, R. W., see NITTROUER, C. A. [and others], 1981.

STEVENSON, A. J., see GERIN, MARYBETH [and others], 1979.

STEWART, R. J., see JOHNSON, S. Y. [and others], 1984.

STEWART, R. J., see NIEM, A. R. [and others], 1984.

STEWART, R. J., see POTTER, C. J. [and others], 1982.

STOKKE, P. R.; CARSON, BOBB, 1974, Clay mineralogy of Cascadia Basin-Juan de Fuca abyssal plain (northeast Pacific Ocean) Quaternary sediments [abstract]: Geological Society of America Abstracts with Programs, v. 6, no. 7, p. 973.

STOLPER, EDWARD see DIXON, J. E. [and others], 1986.

STOW, D. A. V.; HOWELL, D. G.; NELSON, C. H., 1985, Sedimentary, tectonic, and sea-level controls. In Bouma, A. H.; Normark, W. R.; Barnes, N. E., editors, 1985, Submarine fans and related turbidite systems: Springer-Verlag Frontiers in Sedimentary Geology, p. 15-22.

STRIBLING, M. C., see KULM, L. D. [and others], 1986.

SUESS, ERWIN; MASSOTH, G. J., 1984, Evidence for venting of pore waters from subducted sediments of the Oregon continental margin [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1089.

SUESS, ERWIN, see CARSON, BOBB [and others], 1984.

SUESS, ERWIN, see RITGER, S. D. [and others], 1987.

SUTHERLAND BROWN, A., see CLOWES, R. M. [and others], 1987.

SWANSON, D. A., see COWAN, D. S. [and others], 1986.

SWANSON, D. A., see POTTER, C. J. [and others], 1982.

SYKES, L. R., see TOBIN, D. G. [and others], 1967.

SYKES, L. R., see TOBIN, D. G. [and others], 1968.

TABER, J. J., JR., 1983, Crustal structure and seismicity of the Washington continental margin: University of Washington Doctor of Philosophy thesis, 159 p.

TABER, J. J., JR.; LEWIS, B. T. R., 1986, Crustal structure of the Washington continental margin from refraction data: Seismological Society of America Bulletin, v. 76, no. 4, p. 1011-1024.

TABER, J. J., JR.; SMITH, S. W., 1985, Seismicity and focal mechanisms associated with the subduction of the Juan de Fuca plate beneath the Olympic Peninsula, Washington: Seismological Society of America Bulletin, v. 75, no. 1, p. 237-249.

TABER, J. J., JR.; WEAVER, C. S., 1983, Seismicity of the Olympic Peninsula, Washington [abstract]: Earthquake Notes, v. 54, no. 1, p. 41.

TABER, J. J., JR., see MCCLAIN, K. J. [and others], 1981.

TABER, J. J., JR., see MCCLAIN, K. J. [and others], 1984.

TAGHON, G. L., see DEBEVOISE, A. E. [and others], 1986.

TATSUMOTO, M.; HINKLEY, T. K.; HEGNER, ERNST, 1985, U-Th-Pb, Rb-Sr, and Sm-Nd sys-

tematics of ALVIN dive samples from the Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 926.

TATSUMOTO, M., see HEGNER, ERNST [and others], 1985.

THENHAUS, P. C., see PERKINS, D. M. [and others], 1980.

THOMAS, J. A., see WILDE, P. [and others], 1977.

THOMSON, R. E.; MIDDLETON, J. H., 1985, Hydrothermal plumes on the Endeavour Ridge --An experiment: Eos (American Geophysical Union Transactions), v. 66, no. 52, p. 1361.

THORBJARNARSON, K. W.; NITTROUER, C. A.; DEMASTER, D. J., 1983, Modern sediment accumulation in Quinault Submarine Canyon, Washington [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 52, p. 1060.

THORBJARNARSON, K. W.; NITTROUER, C. A.; DEMASTER, D. J., 1986, Accumulation of modern sediment in Quinault submarine canyon: Marine Geology, v. 71, no. 1/2, p. 107-124.

THORBJARNARSON, K. W., see CARSON, BOBB [and others], 1986.

THORBJARNARSON, K. W., see DEMASTER, D. J. [and others], 1983.

TIFFIN, D. L., 1973, Marine geophysical activities on the Pacific margin: Geological Survey of Canada Paper 73-1, Part A, p. 121.

TILLSON, D. D.; GLASS, C. E.; KIEL, W. A., 1985, Use of synthetic shaded relief images for engineering geologic interpretation of geophysical data [abstract]: Association of Engineering Geologists, 1985 Annual Meeting, Abstracts and Program, p. 78.

TIVEY, M., see LUPTON, J. E. [and others], 1984.

TIVEY, M., see THE MERGE GROUP [and others], 1984.

TIVEY, M. A.; JOHNSON, H. P., 1985, A near-bottom magnetic survey over an active hydrothermal vent field--Northern Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 925.

TIVEY, M. K.; DELANEY, J. R., 1985, Controls on the distribution and size of hydrothermal vent structures on the Endeavour segment, Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 926.

TIVEY, M. K., see THE MERGE GROUP [and others], 1984.

TOBIN, D. G.; SYKES, L. R., 1967, Seismicity and tectonics of the northeast Pacific Ocean [abstract]: American Geophysical Union Transactions, v. 48, no. 1, p. 204.

TOBIN, D. G.; SYKES, L. R., 1968, Seismicity and tectonics of the northeast Pacific Ocean: Journal of Geophysical Research, v. 73, no. 12, p. 3821-3845.

TOMSON, J. H., see WAGNER, H. C. [and others], 1986.

TROSETH, S., see CONNARD, GERRY [and others], 1984.

TUNNICLIFFE, VERENA, 1986, Cruise reports--PANDORA II/PISCES IV, 10 July-5 August, 1986: Northeast Pacific News, v. 3, no. 5, p. 1-2.

TUNNICLIFFE, VERENA; CHASE, R. L.; FARROW, G.; NELSON, D., 1983, Rocks, sediments and benthos of Cobb seamount, N.E. Pacific Ocean [abstract]: Geological Association of Canada Program with Abstracts, v. 8, p. A70.

TUNNICLIFFE, VERENA, see CASM RESEARCH GROUP [and others], 1983.

TUNNICLIFFE, VERENA, see DELANEY, J. R. [and others], 1983.

TUNNICLIFFE, VERENA, see JOHNSON, H. P. [and others], 1986.

TWISS, E. S.; CARPENTER, ROY; SCHELL, W. R., 1973, Polonium-210 in sediments off the Washington coast [abstract]: Eos (American Geophysical Union Transactions), v. 54, no. 4, p. 341.

U.S. GEOLOGICAL SURVEY, 1974, Oligocene continental slope beneath Juan de Fuca [abstract]: U.S. Geological Survey Professional Paper 900, p. 49-50.

U.S. GEOLOGICAL SURVEY, 1978, California to Washington [abstract]: U.S. Geological Survey Professional Paper 1100, p. 150.

U.S. GEOLOGICAL SURVEY, 1978, Marine geology and coastal hydrology; coastal and marine geology; Pacific Continental Margin: U.S. Geological Survey Professional Paper 1100, p. 150-153.

U.S. GEOLOGICAL SURVEY, 1980, Aeromagnetic map of offshore northwest Washington: U.S. Geological Survey Open-File Report 80-976, 1 sheet, scale 1:125,000.

U.S. GEOLOGICAL SURVEY, 1980, Aeromagnetic map of the north central Washington coast: U.S. Geological Survey Open File Report 80-977, 1 sheet, scale 1:125,000.

U.S. GEOLOGICAL SURVEY, 1981, Compilation of laws related to mineral resource activities on the outer continental shelf: National Technical Information Service, 2 vol.

U.S. GEOLOGICAL SURVEY, 1981, Compilation of regulations related to mineral resource activities on the outer continental shelf: National Technical Information Service, 2 vol.

U.S. GEOLOGICAL SURVEY, 1986, Atlas of the exclusive economic zone, western conterminous United States: U.S. Geological Survey Miscellaneous Investigations Series I-1792, 152 p.

U.S. GEOLOGICAL SURVEY, 1986, Image mapping the west coast U.S. Exclusive Economic Zone. In U.S. Geological Survey, 1986, United States Geological Survey yearbook, fiscal year 1985: U.S. Geological Survey, p. 102-105.

U.S. NATIONAL ADVISORY COMMITTEE ON OCEANS AND ATMOSPHERE, 1983, Marine minerals--An alternative mineral supply; National ocean goals and objectives for the 1980's: U.S. Government Printing Office, 53 p.

VALLIER, T. L., see MELSON, W. G. [and others], 1976.

VAN DER VOORT, J. L.; MIELKE, J. E., 1982, Report on marine hydrothermal metal deposits; prep. by Congressional Research Service; submitted... to Committee on Merchant Marine and Fisheries: U.S. Congress, 97th, 2nd Session, Serial no. 97-D, 107 p.

VAN GEEN, ALEXANDER, see HEDGES, J. I. [and others], 1982.

VANCE, T. C., see JOHNSON, H. P. [and others], 1982.

VANCE, T. C., see JOHNSON, H. P. [and others], 1983.

VENKATARATHNAM, KOLLA, 1969, Size distribution and mineral composition of the sediments of the inner continental shelf off northern Washington. In McManus, D. A.; Bennett, L. C., Jr.; and others, 1969, Research on the continental shelf off Washington and western Alaska from August 1968 through June 1969: University of Washington Department of Oceanography Special Report 41, p. 93-113.

VENKATARATHNAM, KOLLA, 1970, Sediments of the continental shelf off northern Washington. In McManus, D. A.; Venkatarathnam, Kolla; Echols, R. J.; Holmes, M. L., 1970, Bottom samples and seismic profiles of the northern Bering Sea, and associated studies: U.S. Geological Survey, p. 116-181.

VENKATARATHNAM, KOLLA; MCMANUS, D. A., 1969, Sediments of inner continental shelf off northern Washington coast [abstract]: American Association of Petroleum Geologists Bulletin, v. 53, no. 2, p. 461.

VENKATARATHNAM, KOLLA; MCMANUS, D. A., 1973, Origin and distribution of sands and gravels on the northern continental shelf off Washington: Journal of Sedimentary Petrology, v. 43, no. 4, p. 799-811.

VICTOR, LINDA see COUCH, R. W. [and others], 1974.

VILLINGER, H.; DAVIS, E. E., 1984, Heat flow and bottom water temperature measurements from the Rift Valley of the northern Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 1111.

VILLINGER, H.; DAVIS, E. E., 1986, Hydrothermal regime of a sedimented rift valley, northern Juan de Fuca Ridge [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 1232.

VILLINGER, H., see DAVIS, E. E. [and others], 1986.

VILLINGER, H., see NOBES, D. C. [and others], 1985.

VILLINGER, H., see NOBES, D. C. [and others], 1986.

VINE, ALLYN, see MANHEIM, F. T. [and others], 1986.

VINE, F. J.; WILSON, J. T., 1965, Magnetic anomalies over a young oceanic ridge off Vancouver Island: Science, v. 150, no. 3695, p. 485-489.

VINE, F. J., 1968, Paleomagnetic evidence for the northward movement of the North Pacific Basin during the past 100 m.y. [abstract]: American Geophysical Union Transactions, v. 49, no. 1, p. 156.

WAGNER, H. C., 1985, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental slope off southwestern Washington: Washington Division of Geology and Earth Resources Open-File Report 85-1, 6 p., 5 plates.

WAGNER, H. C.; BATATIAN, L. D.; LAMBERT, T. M.; TOMSON, J. H., 1986, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental shelf and upper

continental slope off southwestern Washington between latitudes 46 degrees N. and 48 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W.: Washington Division of Geology and Earth Resources Open-File Report 86-1, 8 p., 6 plates.

WAGNER, H. C., see RAU, W. W. [and others], 1974.

WAGNER, H. C., see SNAVELY, P. D., JR. [and others], 1980.

WAGNER, H. C., see SNAVELY, P. D., JR. [and others], 1981.

WAGNER, H. C., see SNAVELY, P. D., JR. [and others], 1982.

WAGNER, H. C., see SNAVELY, P. D., JR. [and others], 1983.

WAGNER, H. C., see SNAVELY, P. D., JR. [and others], 1984.

WAHLSTROM, R.; ROGERS, G. C.; ELLIS, R. M., 1987, Seismicity reassessment and earthquake focal mechanisms for the northern Juan de Fuca Ridge system [abstract]: Eos (American Geophysical Union Transactions), v. 68, no. 3, p. 46.

WALCK, M. C., 1985, The upper mantle beneath the north-east Pacific rim--A comparison with the Gulf of California: Royal Astronomical Society Geophysical Journal, v. 81, no. 1, p. 243-276.

WALDRON, D. A., see CLOWES, R. M. [and others], 1983.

WALDRON, D. A., see ELLIS, R. M. [and others], 1983.

WALDRON, D. A., see WHITE, W. R. H. [and others], 1983.

WALTON, FRED see ELVERS, D. J. [and others], 1972.

WANG, F. F. H., see MCKELVEY, V. E. [and others], 1969.

WASSERBURG, G. H., see CHEN, J. H. [and others], 1985.

WATERS, A. C., see GRIGGS, G. B. [and others], 1970.

WATKINS, J. S., see KLITGORD, K. D. [and others], 1984.

WATKINS, N. D., see DYMOND, J. R. [and others], 1968.

WATKINS, R., see CONNARD, GERRY [and others], 1984.

WEAVER, C. S., 1985, Combined regional seismotectonics and the extent of Cenozoic volcanism--An improved first-order geothermal assessment of the Cascade Range. In Guffanti, Marianne; Muffler, L. J. P., editors, 1985, Proceedings of the workshop on geothermal resources of the Cascade Range: U.S. Geological Survey Open-File Report 85-521, p. 14-17.

WEAVER, C. S., 1985, Geothermal seismotectonic studies. In Jacobson, M. L.; Rodriguez, T. R., compilers, 1985, National Earthquake Hazards Reduction Program, summaries of technical reports Volume XXI: U.S. Geological Survey Open-File Report 86-31, p. 52-56.

WEAVER, C. S.; MICHAELSON, C. A., 1983, Segmentation of the Juan de Fuca plate and volcanism in the Cascade Range [abstract]: Eos (American Geophysical Union Transactions), v. 64, no. 45, p. 886.

WEAVER, C. S.; MICHAELSON, C. A., 1985, Seismicity and volcanism in the Pacific Northwest--Evidence for the segmentation of the Juan de Fuca Plate: Geophysical Research Letters, v. 12, no. 4, p. 215-218.

WEAVER, C. S., see MICHAELSON, C. A. [and others], 1986.

WEAVER, C. S., see TABER, J. J., JR. [and others], 1983.

WEBSTER, F. L., 1985, Pacific OCS lease sale, October 1, 1964, Oregon and Washington: U.S. Minerals Management Service Pacific OCS Region report 85-0101, 36 p.

WEEKS, L. G., 1974, Petroleum resources of continental margins. In Burk, C.A.; Drake, C.L., editors, 1974, The geology of continental margins: Springer-Verlag, p. 953-964.

WELLS, R. E., see SNAVELY, P. D., JR. [and others], 1984.

WELTON, B. J., 1980, Late Cretaceous and Cenozoic Squalomorphii of the northeast Pacific Ocean [abstract]: Dissertation Abstracts International, v. 41, no. 1, Section B, p. 111-B-112-B.

WHITE, S. M., 1968, Distribution of glauconite-boron association in continental-shelf sediments [abstract]: American Association of Petroleum Geologists Bulletin, v. 52, no. 3, p. 555.

WHITE, S. M., 1968, The mineralogy and geochemistry of the sediments on the continental shelf off the Washington-Oregon coast: University of Washington Doctor of Philosophy thesis, 213 p.

WHITE, S. M., 1968, The mineralogy and geochemistry of the sediments on the continen-

tal shelf off the Washington-Oregon coast [abstract]: Dissertation Abstracts International, v. 29, no. 1, Section B, p. 251-B.

WHITE, S. M., 1970, Mineralogy and geochemistry of continental shelf sediments of Washington-Oregon coast: Journal of Sedimentary Petrology, v. 40, no. 1, p. 38-54.

WHITE, W. R. H.; WALDRON, D. A.; CLOWES, R. M., 1983, VISP I--Crustal structure of the oceanic Juan de Fuca plate [abstract]: Geological Association of Canada Program with Abstracts, v. 8, p. A73.

WIENKE, S. M., see NAYUDU, Y. R. [and others], 1969.

WILDE, P., 1980, Compilation of marine geologic and oceanographic data off the west coast of the United States. In Lawrence Berkeley Laboratory, 1980, Earth Sciences Division annual report 1979: Lawrence Berkeley Laboratory LBL-10686, p. 230-231.

WILDE, P.; CHASE, T. E.; HOLMES, M. L.; NORMARK, W. R.; THOMAS, J. A., 1977, Oceanographic data off Washington, 46 degrees to 49 degrees north including the Nitinat deep sea fan: Lawrence Berkeley Laboratory Energy and Environment Division Publication 223, 1 sheet, scale 1:1,000,000.

WILDE, P., see CHASE, T. E. [and others], 1976.

WILDE, P., see CHASE, T. E. [and others], 1977.

WILDE, P., see CHASE, T. E. [and others], 1981.

WILSON, D. S., 1985, Tectonic history of the Juan de Fuca Ridge from 40 million years to present [abstract]: Eos (American Geophysical Union Transactions), v. 66, no. 46, p. 1062.

WILSON, D. S.; HEY, R. N.; NISHIMURA, C. E., 1982, Propagation as a mechanism of ridge reorientation in the Juan de Fuca area [abstract]: Eos (American Geophysical Union Transactions), v. 63, no. 45, p. 1146.

WILSON, D. S.; HEY, R. N.; NISHIMURA, C. E., 1984, Propagation as a mechanism of ridge reorientation in the Juan de Fuca area [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 17, p. 330.

WILSON, D. S.; HEY, R. N.; NISHIMURA, C. E., 1984, Propagation as a mechanism of reorientation of the Juan de Fuca Ridge: Journal of Geophysical Research, v. 89, no. B11, p. 9215-9225.

WILSON, D. S., see HEY, R. N. [and others], 1982.

WILSON, D. S., see NISHIMURA, C. E. [and others], 1981.

WILSON, D. S., see NISHIMURA, C. E. [and others], 1984.

WILSON, J. T., 1965, Transform faults, oceanic ridges, and magnetic anomalies southwest of Vancouver Island: Science, v. 150, no. 3695, p. 482-485.

WILSON, J. T., see VINE, F. J. [and others], 1965.

WISSMANN, GERD, 1970, Shallow sub-bottom geology of the Washington shelf south of La Perouse Bank [abstract]: Eos (American Geophysical Union Transactions), v. 51, no. 3, p. 207.

WISSMANN, GERD, 1971, Marine geophysical studies offshore Cape Flattery, Washington, and the implications for regional tectonics: University of Washington Master of Science thesis, 96 p.

WOLFGRAM, P. A.; EDWARDS, R. N.; LAW, L. K.; BONE, M. N., 1984, Electrical resistivity sounding over sulfides on the northern Juan de Fuca Ridge--The sea floor MOSES experiments [abstract]: Eos (American Geophysical Union Transactions), v. 65, no. 45, p. 867.

WOODRUFF, J. L., see NAYUDU, Y. R. [and others], 1968.

WRIGHT, T. L., see MELSON, W. G. [and others], 1976.

WYAN, W., see MALAHOFF, ALEXANDER [and others], 1982.

YEATS, R. S.; MATHEZ, E. A., 1976, Decorated vesicles in deep-sea basalt glass, eastern Pacific: Journal of Geophysical Research, v. 81, no. 23, p. 4277-4284.

YORATH, C. J.; CURRIE, R. G.; DAVIS, E. E.; RIDDIHOUGH, R. P., 1984, Exploring Juan de Fuca Ridge system [abstract]. In Scott, J.S., chairperson, 1984, Current activities forum 1984; program with abstracts: Geological Survey of Canada Paper 84-8, p. 8.

YORATH, C. J.; SIDNEY, B. C.; CHASE, R. L., 1978, Structural cross section--Coast Mountains, British Columbia to Juan de Fuca Ridge [abstract]: Geological Society of America Abstracts with Programs, v. 10, no. 7, p. 520-521.

YORATH, C. J., see BORNHOLD, B. D. [and others], 1986.

YORATH, C. J., see CLOWES, R. M. [and others], 1987.

YORATH, C. J., see DAVIS, E. E. [and others], 1986.

YOUNG, J. D., see CHASE, T. E. [and others], 1981.

YUAN, J.-W., see CARSON, BOBB [and others], 1972.

YUAN, J.-W., see CARSON, BOBB [and others], 1974.

ZIEGLAR, D. L.; CASSELL, J. K., 1978, A synthesis of OCS well information, offshore central and northern California, Oregon, and Washington. In Hill, F. L.; Wilkinson, E. R.; Schneider, R. H., coordinators, 1978, Energy exploration and politics; preprints: California Division of Oil and Gas, 27 p.

ZIEGLAR, D. L.; CASSELL, J. K., 1978, Synthesis of OCS well information, offshore central and northern California, Oregon, and Washington [abstract]: American Association of Petroleum Geologists Bulletin, v. 62, no. 11, part 1, p. 2364.

ZIETZ, ISIDORE; BOND, KEVIN; JOHNSON, P. R., 1986, Enhanced magnetic anomaly map of the western United States and offshore areas [abstract]: Eos (American Geophysical Union Transactions), v. 67, no. 44, p. 919.

ZIONY, J. I., see PERKINS, D. M. [and others], 1980.

Acoustic surveys, see GEOPHYSICS - ACOUSTIC SURVEYS

Ash, see VOLCANIC ASH

ASTORIA CANYON

BYRNE, J. V., 1963, Geomorphology of the continental terrace off the northern coast of Oregon.

CARLSON, P. R., 1968, Marine geology of Astoria submarine canyon.

CARLSON, P. R.; NELSON, C. H., 1969, Sediments and sedimentary structures of the Astoria submarine canyon-fan systems, northeast Pacific.

EDGAR, N. T., 1983, Oil and gas resources of the U.S. continental margin.

KULM, L. D.; SCHEIDEGGER, K. F., 1979, Quaternary sedimentation on the tectonically active Oregon continental slope.

NELSON, C. H., 1985, Astoria Fan, Pacific Ocean.

NELSON, C. H.; CARLSON, P. R.; BYRNE, J. V.; ALPHA, T. R., 1970, Development of the Astoria Canyon-fan physiography and comparison with similar systems.

NELSON, C. H.; KULM, L. D.; CARLSON, P. R.; DUNCAN, J. R., 1968, Mazama ash in the northeastern Pacific.

NELSON, C. H.; NORMARK, W. R.; BOUMA, A. H.; CARLSON, P. R., 1978, Thin-bedded turbidites in modern submarine canyons and fans.

NELSON, H., 1976, Late Pleistocene and Holocene depositional trends, processes and history of Astoria deep-sea fan, northeast Pacific.

OSTERBERG, C. L.; KULM, L. D.; BYRNE, J. V., 1963, Gamma emitters in marine sediments near the Columbia River.

RUSSELL, K. L., 1967, Clay mineral origin and distribution on Astoria Fan.

ASTORIA CHANNEL

NELSON, C. H., 1985, Astoria Fan, Pacific Ocean.

NELSON, C. H.; KULM, L. D.; CARLSON, P. R.; DUNCAN, J. R., 1968, Mazama ash in the northeastern Pacific.

ASTORIA FAN

COLE, M. R.; ARMENTROUT, J. M., 1979, Neogene paleogeography of the western United States.

DAUPHIN, J. P., 1980, Size distribution of chemically extracted quartz used to characterize fine-grained sediments.

DUNCAN, J. R.; FOWLER, G. A.; KULM, L. D., 1970, Planktonic foraminiferan-radiolarian ratios and Holocene-late Pleistocene deep sea stratigraphy off Oregon.

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

KULM, L. D.; SCHEIDEGGER, K. F., 1979, Quaternary sedimentation on the tectonically active Oregon continental slope.

MCMANUS, D. A., 1965, Physiography of the sea floor between the Mendocino Ridge and Vancouver Island, northeast Pacific Ocean [abstract].

NELSON, C. H., 1968, Marine geology of Astoria deep sea fan, 1968.*

NELSON, C. H., 1985, Astoria Fan, Pacific Ocean.

NELSON, C. H.; BYRNE, J. V., 1969, Astoria fan, a model for deep-sea fan deposition [abstract].

NELSON, C. H.; CARLSON, P. R.; BYRNE, J. V.; ALPHA, T. R., 1970, Development of the Astoria Canyon-fan physiography and comparison with similar systems.

NELSON, C. H.; KULM, L. D.; CARLSON, P. R.; DUNCAN, J. R., 1968, Mazama ash in the northeastern Pacific.

NELSON, C. H.; NILSEN, T. H., 1974, Depositional trends of modern and ancient deep-sea fans.

NELSON, C. H.; NORMARK, W. R.; BOUMA, A. H.; CARLSON, P. R., 1978, Thin-bedded turbidites in modern submarine canyons and fans.

---

* See Bibliography for full list of all articles by this author with this title.

ASTORIA FAN

RUSSELL, K. L., 1967, Clay mineral origin and distribution on Astoria Fan.

SCHWELLER, W. J.; KULM, L. D., 1978, Depositional patterns and channelized sedimentation in active eastern Pacific trenches.

STOW, D. A. V.; HOWELL, D. G.; NELSON, C. H., 1985, Sedimentary, tectonic, and sea-level controls.

AXIAL CALDERA

APPELGATE, B.; BRINKHURT, R.; BUTTERFIELD, D.; COWEN, J.; DEBEVOISE, A. E.; DECHARON, A.; EMBLEY, R. W.; FEELY, R. A.; FOX, C. G.; FRANKLIN, J.; ET AL, 1986, Pisces submersible exploration of a high-temperature vent field in the caldera of Axial Volcano, Juan de Fuca Ridge [abstract].

HAMMOND, S. R.; DELANEY, J. R., 1985, Evolution of Axial volcano, Juan de Fuca Ridge [abstract].

LEWISON, M. A.; FEELY, R. A.; CURL, H. C., JR.; GEISELMAN, T. L., 1986, Composition of smoker particulates from active vents within the caldera of Axial Volcano on the Juan de Fuca Ridge [abstract].

MURPHY, K. M.; FOX, C. G.; EMBLEY, R. W.; LAU, T.-K. A.; HAMMOND, S. R., 1986, Classification and graphic display of bottom photography for geologic mapping [abstract].

TUNNICLIFFE, VERENA, 1986, Cruise reports--PANDORA II/PISCES IV, 10 July-5 August, 1986.

AXIAL SEAMOUNT

CANADIAN AMERICAN SEAMOUNT EXPEDITION, 1985, Hydrothermal vents on an axis seamount of the Juan de Fuca ridge.

CASM RESEARCH GROUP (CHASE, R. L.; DELANEY, J. R.; JOHNSON, H. P.; JUNIPER, S. K.; KARSTEN, J. L.; LUPTON, J. E.; SCOTT, S. D.; TUNNICLIFFE, VERENA), 1983, North caldera hydrothermal vent field, Axial seamount Juan de Fuca Ridge [abstract].

DELANEY, J. R.; KARSTEN, J. L.; JOHNSON, H. P.; CHASE, R. L.; SCOTT, S. D.; TUNNICLIFFE, VERENA; HAMMOND, S. R., 1983, Structural control of hydrothermal vents and sulfide structures on the 'Axial seamount,' Juan de Fuca [abstract].

DESONIE, D. L.; DUNCAN, R. A., 1986, Spreading ridge and hotspot contributions to seamounts near the Juan de Fuca Ridge [abstract].

HANNINGTON, M. D.; PETER, J. M.; SCOTT, S. D., 1986, Gold in sea-floor polymetallic sulfide deposits.

HANNINGTON, M. D.; SCOTT, S. D., 1986, Processes of sulfide accumulation in sea-floor polymetallic sulfide deposits--Axial seamount and southern Explorer Ridge [abstract].

JACOBSON, R. S.; BIBEE, L. D.; EMBLEY, R. W.; HAMMOND, S. R., 1987, A microseismicity survey of Axial Seamount, Juan de Fuca Ridge.

JOHNSON, H. P.; TUNNICLIFFE, VERENA, 1986, Time-lapse camera measurements of a high-temperature hydrothermal system on Axial Seamount--Juan de Fuca Ridge [abstract].

KAPPEL, E. S.; RYAN, W. B. F., 1986, Volcanic episodicity and a non-steady state rift valley along northeast Pacific spreading centers--Evidence from Sea MARC I.

KARSTEN, J. L.; DELANEY, J. R., 1986, Hot spot/migrating ridge crest interaction--Juan de Fuca style [abstract].

MCDUFF, R. E.; EDMOND, J. M.; JUNIPER, K.; LUPTON, J. E.; SCOTT, S. D., 1983, Chemistry of hydrothermal waters, 'Axial seamount,' Juan de Fuca Ridge [abstract].

PAYTON, W. H.; LAVIN, P. M., 1987, Application of directional filtering to separate Juan de Fuca seamount magnetic anomalies from seafloor magnetic lineations [abstract].

TUNNICLIFFE, VERENA, 1986, Cruise reports--PANDORA II/PISCES IV, 10 July-5 August, 1986.

BASALT

see also subdivision BASALT under specific geographic areas, e.g., CONTINENTAL SHELF - BASALT

BASALT - COBB SEAMOUNT

BUDINGER, T. F., 1967, Cobb Seamount.

ENGEL, C. G.; ENGEL, A. E. J., 1963, Basalts dredged from the northeastern Pacific Ocean.

BASALT - CONTINENTAL SHELF

SNAVELY, P. D., JR.; WELLS, R. E., 1984, Tertiary volcanic and intrusive rocks on the Oregon and Washington continental shelf.

BASALT - JUAN DE FUCA RIDGE

DAVIS, E. E., 1982, Evidence for extensive basalt flows on the sea floor.

SILVER, L. A.; DELANEY, J. R., 1983, Melting experiments on Juan de Fuca Ridge basalts--Implications for petrogenesis [abstract].

BASALT - JUAN DE FUCA RIDGE - GEOCHEMISTRY

BARR, S. M., 1974, Seamount chains formed near the crest of Juan de Fuca Ridge, northeast Pacific Ocean.

BASS, M. N., 1970, Variation of ocean ridge basalts with spreading rate [abstract].

BLANK, J. G.; DELANEY, J. R.; DES MARAIS, D. J., 1986, Carbon in basaltic glass from the Juan de Fuca Ridge [abstract].

CHURCH, S. E., 1972, Trace element abundances in ocean sediments and altered basalts --Their implications for andesite genesis [abstract].

CHURCH, S. E., 1973, The isotopic composition of lead in ocean ridge basalts and seamounts from the Juan de Fuca-Gorda Rise system [abstract].

DELANEY, J. R.; KARSTEN, J. L.; CLAGUE, D. A., 1982, Geochemistry of Juan de Fuca Ridge basaltic glasses [abstract].

DIXON, J. E.; STOLPER, EDWARD; DELANEY, J. R., 1986, Infrared spectroscopic measures of H_2O and CO_2 contents in Juan de Fuca Ridge glasses [abstract].

DYMOND, J. R., 1970, Excess argon in submarine basalt pillows.

EABY, JACQUELINE, 1982, Sr-isotopic variations along the Juan de Fuca Ridge [abstract].

EABY, JACQUELINE; CLAGUE, D. A.; DELANEY, J. R., 1984, Sr isotopic variations along the Juan de Fuca Ridge.

HART, ROGER; DYMOND, JACK; LOGAN, LEWIS, 1982, Noble gas evidence for sea water interaction with residual melts along the Juan de Fuca Ridge [abstract].

HEDGE, C. E.; PETERMAN, Z. E., 1970, The strontium isotopic composition of basalts from the Gorda and Juan de Fuca Rises, northeastern Pacific Ocean.

HEGNER, ERNST; TATSUMOTO, M., 1985, Isotope variations in seamount basalts from the northeast Pacific [abstract].

KARSTEN, J. L.; DELANEY, J. R., 1985, Comparison of glass geochemistry from seamount and adjacent ridge crest lavas--Juan de Fuca Ridge [abstract].

KAY, R.; HUBBARD, N. J.; GAST, P. W., 1970, Chemical characteristics and origin of oceanic ridge volcanic rocks.

LIIAS, R. A.; RHODES, J. M., 1982, Evolution of basaltic magma along the Juan de Fuca Ridge [abstract].

LIIAS, R. A.; RHODES, J. M., 1985, Basalt heterogeneity along the Juan de Fuca Ridge [abstract].

LIIAS, R. A.; RHODES, J. M., 1985, Geochemistry and petrogenesis of basalts from the Juan de Fuca Ridge [abstract].

LIIAS, R. A.; RHODES, J. M.; DELANEY, J. R.; JOHNSON, H. P., 1981, Trace element variation along the Juan de Fuca Ridge [abstract].

LUPTON, J. E., 1982, Helium isotope variations in Juan de Fuca Ridge basalts [abstract].

MELSON, W. G.; VALLIER, T. L.; WRIGHT, T. L.; BYERLY, G. R.; NELEN, JOSEPH, 1976, Chemical diversity of abyssal volcanic glass erupted along Pacific, Atlantic, and Indian Ocean sea-floor spreading centers.

MICHAEL, P. J.; CHASE, R. L., 1985, Trace element and Sr-isotope variations in basalts from the Explorer, Dellwood and Tuzo Wilson spreading segments and seamounts, northeast Pacific [abstract].

MORGAN, C.; RHODES, J. M., 1985, Geochemistry of basalts from the Cobb "hot spot" astride the Juan de Fuca Ridge [abstract].

MULLEN, E. D., 1983, $MnO/TiO_2/P_2O_5$--A minor element discriminant for basaltic rocks of oceanic environments and its implications for petrogenesis.

SOMMER, M. A.; GIBSON, E. K., 1985, Volatile concentrations of submarine glasses from the Juan de Fuca Ridge [abstract].

YEATS, R. S.; MATHEZ, E. A., 1976, Decorated vesicles in deep-sea basalt glass, eastern Pacific.

BASALT - JUAN DE FUCA RIDGE - GEOPHYSICS

CHRISTENSEN, N. I., 1970, Compressional-wave velocities in basalts from the Juan de Fuca Ridge.

Bathymetric maps, see MAPS - BATHYMETRIC

BATHYMETRY

see also subdivision BATHYMETRY under specific geographic areas, e.g., CASCADIA BASIN - BATHYMETRY

ELVERS, D. J.; MORLEY, JOSEPH, 1973, Northwest Pacific IDOE (2).

MCNUTT, MARCIA, 1979, Compensation of oceanic topography--An application of the response function technique to the Surveyor area.

WILDE, P.; CHASE, T. E.; HOLMES, M. L.; NORMARK, W. R.; THOMAS, J. A., 1977, Oceanographic data off Washington, 46 degrees to 49 degrees north including the Nitinat deep sea fan.

BATHYMETRY - CASCADIA BASIN AND ABYSSAL PLAIN

CONNARD, GERRY; COUCH, R. W.; PITTS, G. S.; TROSETH, S., COMPILERS, 1984, Bathymetry and topography.

GERIN, MARYBETH; STEVENSON, A. J., COMPILERS, 1979, Equal-area base map of the north Pacific Ocean, northeast section; Albers equal-area projection.

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

BATHYMETRY - CONTINENTAL MARGIN

CHASE, T. E.; WILDE, P.; NORMARK, W. R.; MILLER, C. P.; SEEKINS, B. A.; YOUNG, J. D., 1981, Offshore topography of the western United States between 32 degrees and 49 degrees north latitudes.

CONNARD, GERRY; COUCH, R. W.; PITTS, G. S.; TROSETH, S., COMPILERS, 1984, Bathymetry and topography.

GERIN, MARYBETH, 1977, Bathymetric map of Pacific coast, Vancouver Island to Tillamook Bay.

GERIN, MARYBETH; STEVENSON, A. J., COMPILERS, 1979, Equal-area base map of the north Pacific Ocean, northeast section; Albers equal-area projection.

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

MCMANUS, D. A., 1964, Major bathymetric features near the coast of Oregon, Washington, and Vancouver Island.

MCMANUS, D. A., 1972, Bottom topography and sediment texture near the Columbia River mouth.

VENKATARATHNAM, KOLLA, 1970, Sediments of the continental shelf off northern Washington.

WAGNER, H. C., 1985, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental shelf and upper continental slope off southwestern Washington between latitudes 46 degrees N. and 47 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W..

WAGNER, H. C.; BATATIAN, L. D.; LAMBERT, T. M.; TOMSON, J. H., 1986, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental shelf and upper continental slope off southwestern Washington between latitudes 46 degrees N and 48 degrees 30 minutes N and from the Washington coast to 125 degrees 20 minutes W.

BATHYMETRY - JUAN DE FUCA RIDGE

CONNARD, GERRY; COUCH, R. W.; PITTS, G. S.; TROSETH, S., COMPILERS, 1984, Bathymetry and topography.

DAVIS, E. E.; CURRIE, R. G.; RIDDIHOUGH, R. P.; SAWYER, B. S., 1985, A new look at the Juan de Fuca Ridge--High-resolution bathymetry and side-scan acoustic imagery.

DAVIS, E. E.; CURRIE, R. G.; VILLINGER, H.; GOODFELLOW, W. D.; HUSSONG, D. M.; RYAN, W. B. F.; HAMMOND, S. R., 1986, Regional acoustic imagery and detailed geophysical studies of northern Juan de Fuca Ridge [abstract].

DUNCAN, J. R.; MORGAN, W. J.; MELSON, W. G.; SIMKIN, THOMAS; BANKS, HAROLD; GOTTFRIED, DAVID, 1969, Juan de Fuca ridge bathymetry--Independent evidence of seafloor spreading [abstract].

GERIN, MARYBETH; STEVENSON, A. J., COMPILERS, 1979, Equal-area base map of the north Pacific Ocean, northeast section; Albers equal-area projection.

HAMMOND, S. R.; KARSTEN, J. L.; DAVIS, E. E.; CURRIE, R. G.; MALAHOFF, ALEXANDER, 1983, Bathymetric and hydrothermal characterization of the northernmost Juan de Fuca Ridge [abstract].

HAMMOND, S. R.; MALAHOFF, ALEXANDER; HEY, R. N., 1981, Detailed bathymetric evidence for recent rifting at the Cobb propagator, Juan de Fuca Ridge [abstract].

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

BIBLIOGRAPHY

KULM, L. D.; PETERSON, C. D.; STRIBLING, M. C., 1986, Inventory of heavy minerals and metals--Southern Washington, Oregon, and northern California continental shelf and coastal region.

LUEPKE, GRETCHEN, 1980, Bibliography of the geology of the Oregon-Washington continental shelf and coastal zone, 1899-1978.

BIOLOGY

DEBEVOISE, A. E.; TAGHON, G. L., 1986, RNA /DNA ratios of a hydrothermal vent vestimentiferan--Evidence for between-vent variation in growth rates [abstract].

Biostratigraphy,

see

PALEONTOLOGY
STRATIGRAPHY

BLACK SANDS

KULM, L. D.; PETERSON, C. D.; STRIBLING, M. C., 1986, Inventory of heavy minerals and metals--Southern Washington, Oregon, and northern California continental shelf and coastal region.

PHILLIPS, R. L., 1979, Heavy minerals and bedrock minerals on the continental shelf off Washington, Oregon and California.

CADMIUM

JONES, C. J.; MURRAY, J. W., 1984, Nickel, cadmium, and copper in the northeast Pacific off the coast of Washington.

Canyons, see SUBMARINE CANYONS

CASCADIA ABYSSAL PLAIN

DUNCAN, J. R.; KULM, L. D., 1968, Postglacial and late Pleistocene sedimentation in the abyssal environments off Oregon-Washington [abstract].

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

NAYUDU, Y. R.; ENBYSK, B. J., 1964, Biolithology of northeast Pacific surface sediments.

NELSON, C. H.; KULM, L. D.; CARLSON, P. R.; DUNCAN, J. R., 1968, Mazama ash in the northeastern Pacific.

CASCADIA BASIN

see also

ASTORIA FAN
CASCADIA ABYSSAL PLAIN
CASCADIA CHANNEL
CASCADIA FAN
NITINAT FAN

KULM, L. D.; LOUBERE, P. W.; PEPER, J. S., COMPILERS, 1984, Geology of continental margin and Cascadia Basin.

CASCADIA BASIN - BATHYMETRY

CONNARD, GERRY; COUCH, R. W.; PITTS, G. S.; TROSETH, S., COMPILERS, 1984, Bathymetry and topography.

GERIN, MARYBETH; STEVENSON, A. J., COMPILERS, 1979, Equal-area base map of the north Pacific Ocean, northeast section; Albers equal-area projection.

MCNUTT, MARCIA, 1979, Compensation of oceanic topography--An application of the response function technique to the Surveyor area.

CASCADIA BASIN - GEOMORPHOLOGY

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

CASCADIA BASIN - GEOPHYSICS

CARSON, BOBB, 1971, Stratigraphy and depositional history of Quaternary sediments in northern Cascade Basin and Juan de Fuca abyssal plain, northeast Pacific Ocean.*

DEHLINGER, PETER; COUCH, R. W., 1971, Gravity investigations west of the coasts of Oregon, Washington, and northern California [abstract].

DEHLINGER, PETER; COUCH, R. W.; MCMANUS, D. A.; GEMPERLE, MICHAEL, 1970, Northeast Pacific structure.

ELVERS, D. J.; WALTON, FRED; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO, 1972, Deformation of the sea floor as revealed by seismic reflection and systematic gravity and magnetic measurements from the Tufts Abyssal Plain to the Washington-Oregon coast [abstract].

GARDNER, J. V.; CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G., 1986, Sonograph mosaic of U.S. west coast Exclusive Economic Zone [abstract].

HAMPTON, M. A.; CACCHIONE, D. A.; DRAKE, D. E.; KARL, N. H.; KENYON, N. H.; MASSON, D. G., 1986, GLORIA mosaic of west coast U.S. Exclusive Economic Zone, northern sector [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1985, Geomorphic features of Oregon-Washington project EEZ-SCAN [abstract].

INTERNATIONAL SYMPOSIUM ON THE ENGINEERING PROPERTIES OF SEA-FLOOR SOILS AND THEIR GEOPHYSICAL IDENTIFICATION, 1971, Proceedings.

KORGEN, B. J.; BODVARSSON, GUNNAR; MESECAR, R. S., 1971, Heat flow through the floor of Cascadia Basin.

KULM, L. D.; PEPER, J. S.; HOLMES, M. L., COMPILERS, 1984, Seismic reflection tracklines.

MCCLAIN, K. J.; PEPER, J. S.; HOLMES, M. L., COMPILERS, 1984, Single channel seismic reflection records of western Washington margin and Cascadia basin.

MCNUTT, MARCIA, 1979, Compensation of oceanic topography--An application of the response function technique to the Surveyor area.

MORAN, J. E.; LISTER, C. R. B., 1985, A heat flow profile across Cascadia Basin [abstract].

SCHEIDEGGER, K. F., COMPILER, 1984, Thermal evolution of the Juan de Fuca Plate.

WILDE, P.; CHASE, T. E.; HOLMES, M. L.; NORMARK, W. R.; THOMAS, J. A., 1977, Oceanographic data off Washington, 46 degrees to 49 degrees north including the Nitinat deep sea fan.

CASCADIA BASIN - GLACIAL GEOLOGY

DUNCAN, J. R.; KULM, L. D., 1968, Postglacial and late Pleistocene sedimentation in the abyssal environments off Oregon-Washington [abstract].

GRIGGS, G. B.; KULM, L. D., 1969, Glacial marine sediments from the northeast Pacific.

CASCADIA BASIN - MINERAL RESOURCES

JONES, C. J.; MURRAY, J. W., 1980, The distribution of manganese in the Cascadia Basin [abstract].

SOKOLOV, B. A.; NESMEYANOV, D. V.; GAYNANOV, A. G.; SEREGIN, A. M., 1976, Geological structure and petroleum potential of the Pacific segment.

CASCADIA BASIN - PALEONTOLOGY

CARSON, BOBB; MCMANUS, D. A., 1971, Analysis of turbidite correlation in Cascadia Basin, northeast Pacific Ocean.

ENBYSK, B. J.; COOPER, S. C., 1965, Biogenic elements in surface sediments of Cascadia Basin, northeast Pacific [abstract].

GRIGGS, G. B.; CAREY, A. G., JR.; KULM, L. D., 1969, Deep-sea sedimentation and sediment-fauna interaction in Cascadia channel and on Cascadia abyssal plain.

GRIGGS, G. B.; KULM, L. D.; DUNCAN, J. R.; FOWLER, G. A., 1970, Holocene faunal stratigraphy and paleoclimatic implications of deep-sea sediments in Cascadia basin.

CASCADIA BASIN - SEDIMENTS

ARCARO, N. P.; CARSON, BOBB, 1978, Clay mineralogy of Cascadia Basin Quaternary sediments--Control by provenance, weathering, or selective transport? [abstract].

BERGLUND, P. L.; CARSON, BOBB, 1978, Development of spaced cleavage in deep-sea mudstone [abstract].

CARSON, BOBB, 1971, Stratigraphy and depositional history of Quaternary sediments in northern Cascade Basin and Juan de Fuca abyssal plain, northeast Pacific Ocean.*

CARSON, BOBB, 1972, Selective turbidite deposition and dispersal with waning turbidity current activity [abstract].

CARSON, BOBB, 1974, Tectonically induced consolidation of deep-sea sediments at a subducting continental margin [abstract].

CARSON, BOBB, 1975, Carbonate dissolution in "offscraped" deep-sea sediments--An integral part of the subduction process? [abstract].

CARSON, BOBB, 1977, Tectonically induced deformation of deep-sea sediments off Washington and northern Oregon--Mechanical consolidation.

CARSON, BOBB; ARCARO, N. P., 1983, Control of clay-mineral stratigraphy by selective transport in late Pleistocene-Holocene sediments of northern Cascadia Basin-Juan de Fuca abyssal plain--Implications for studies of clay-mineral provenance.

CARSON, BOBB; MCMANUS, D. A., 1969, The stratigraphy of northern Cascadia Basin--A statistical evaluation [abstract].

CARSON, BOBB; MCMANUS, D. A., 1971, Analysis of turbidite correlation in Cascadia Basin, northeast Pacific Ocean.

DAUPHIN, J. P.; MOORE, T. C., JR.; HEATH, G. R., 1973, Rates of accumulation of quartz, opal, organic carbon and calcium carbonate in Cascadia Basin, northeast Pacific [abstract].

DUNCAN, J. R.; KULM, L. D., 1968, Postglacial and late Pleistocene sedimentation in the abyssal environments off Oregon-Washington [abstract].

DUNCAN, J. R.; KULM, L. D., 1970, Mineralogy, provenance, and dispersal history of late Quaternary deep-sea sands in Cascadia Basin and Blanco fracture zone of Oregon.

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER,

J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

ENBYSK, B. J.; COOPER, S. C., 1965, Biogenic elements in surface sediments of Cascadia Basin, northeast Pacific [abstract].

GRIGGS, G. B.; CAREY, A. G., JR.; KULM, L. D., 1969, Deep-sea sedimentation and sediment-fauna interaction in Cascadia channel and on Cascadia abyssal plain.

GRIGGS, G. B.; KULM, L. D., 1969, Glacial marine sediments from the northeast Pacific.

GRIGGS, G. B.; KULM, L. D.; DUNCAN, J. R.; FOWLER, G. A., 1970, Holocene faunal stratigraphy and paleoclimatic implications of deep-sea sediments in Cascadia basin.

GROSS, M. G., 1965, The carbonate content of surface sediments from the northeast Pacific Ocean.

GROSS, M. G., 1972, Sediment-associated radionuclides from the Columbia River.

GROSS, M. G.; CAREY, A. G., JR.; FOWLER, G. A.; KULM, L. D., 1972, Distribution of organic carbon in surface sediments, northeast Pacific Ocean.

GRUNDMANIS, VARIS; MURRAY, J. W., 1978, Interstitial water chemistry in the Cascadia basin [abstract].

MCMANUS, D. A., 1965, Bottom sediment types in Cascadia Basin, northeast Pacific Ocean [abstract].

STOKKE, P. R.; CARSON, BOBB, 1974, Clay mineralogy of Cascadia Basin-Juan de Fuca abyssal plain (northeast Pacific Ocean) Quaternary sediments [abstract].

CASCADIA BASIN - STRATIGRAPHY

CARSON, BOBB; MCMANUS, D. A., 1969, The stratigraphy of northern Cascadia Basin--A statistical evaluation [abstract].

CARSON, BOBB; MCMANUS, D. A., 1971, Analysis of turbidite correlation in Cascadia Basin, northeast Pacific Ocean.

CASCADIA BASIN - STRUCTURES AND TECTONICS

BERGLUND, P. L.; CARSON, BOBB, 1978, Development of spaced cleavage in deep-sea mudstone [abstract].

CARSON, BOBB, 1974, Tectonically induced consolidation of deep-sea sediments at a subducting continental margin [abstract].

CARSON, BOBB, 1975, Carbonate dissolution in "offscraped" deep-sea sediments--An integral part of the subduction process? [abstract].

CARSON, BOBB, 1977, Tectonically induced deformation of deep-sea sediments off Washington and northern Oregon--Mechanical consolidation.

DEHLINGER, PETER; COUCH, R. W.; MCMANUS, D. A.; GEMPERLE, MICHAEL, 1970, Northeast Pacific structure.

DUNCAN, R. A.; MCELWEE, K. R., COMPILERS, 1984, Cenozoic plate reconstructions.

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

ELVERS, D. J.; WALTON, FRED; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO, 1972, Deformation of the sea floor as revealed by seismic reflection and systematic gravity and magnetic measurements from the Tufts Abyssal Plain to the Washington-Oregon coast [abstract].

SCHEIDEGGER, K. F., COMPILER, 1984, Thermal evolution of the Juan de Fuca Plate.

SILVER, E. A., 1971, Small plate tectonics in the northeastern Pacific.

SOKOLOV, B. A.; NESMEYANOV, D. V.; GAYNANOV, A. G.; SEREGIN, A. M., 1976, Geological structure and petroleum potential of the Pacific segment.

CASCADIA CHANNEL

DEHLINGER, PETER; COUCH, R. W.; MCMANUS, D. A.; GEMPERLE, MICHAEL, 1970, Northeast Pacific structure.

DUNCAN, J. R.; KULM, L. D., 1968, Postglacial and late Pleistocene sedimentation in the abyssal environments off Oregon-Washington [abstract].

GRIGGS, G. B., 1969, Cascadia channel--The anatomy of a deep-sea channel.*

GRIGGS, G. B.; CAREY, A. G., JR.; KULM, L. D., 1969, Deep-sea sedimentation and sediment-fauna interaction in Cascadia channel and on Cascadia abyssal plain.

GRIGGS, G. B.; KULM, L. D., 1969, Turbidity current analysis in a deep-sea channel [abstract].

GRIGGS, G. B.; KULM, L. D., 1970, Physiography of Cascadia deep-sea channel.

GRIGGS, G. B.; KULM, L. D., 1970, Sedimentation in Cascadia deep-sea channel.

GRIGGS, G. B.; KULM, L. D., 1973, Origin and development of Cascadia deep-sea channel.

GRIGGS, G. B.; KULM, L. D.; WATERS, A. C.; FOWLER, G. A., 1970, Deep-sea gravel from Cascadia channel.

KOMAR, P. D., 1973, Continuity of turbidity current flow and systematic variations in deep-sea channel morphology.

NAYUDU, Y. R.; ENBYSK, B. J., 1964, Biolithology of northeast Pacific surface sediments.

NELSON, C. H., 1985, Astoria Fan, Pacific Ocean.

NELSON, C. H.; CARLSON, P. R.; BYRNE, J. V.; ALPHA, T. R., 1970, Development of the Astoria Canyon-fan physiography and comparison with similar systems.

PIPER, D. J. W., 1978, Turbidite muds and silts on deepsea fans and abyssal plains.

CASCADIA FAN

CHASE, T. E.; HOLMES, M. L.; WILDE, P.; NORMARK, W. R., 1977, Compilation of marine geologic and oceanographic data off the western United States; Cascadia sheet [abstract].

CHASE, T. E.; NORMARK, W. R.; WILDE, P., 1976, Compilations of marine geologic and oceanographic data off the west coast of the United States [abstract].

CENOZOIC

see also

QUATERNARY
TERTIARY

ATWATER, T. M., 1970, Implications of plate tectonics for the Cenozoic tectonic evolution of western North America.*

BARNARD, W. D., 1973, Late Cenozoic sedimentation on the Washington continental slope.*

CARLSON, R. L., 1976, Cenozoic plate convergence in the vicinity of the Pacific Northwest--A synthesis and assessment of plate tectonics in the northeastern Pacific.*

CARLSON, R. L., 1977, Late Cenozoic evolution of the Juan de Fuca and Gorda Rises [abstract].

CARLSON, R. L., 1981, Late Cenozoic rotations of the Juan de Fuca Ridge and the Gorda Rise--A case study.

DAUPHIN, J. P.; MOORE, T. C., JR.; HEATH, G. R., 1973, Rates of accumulation of quartz, opal, organic carbon and calcium carbonate in Cascadia Basin, northeast Pacific [abstract].

DAVIES, T. A., 1985, Mesozoic and Cenozoic sedimentation in the Pacific Ocean basin.

DOTT, R. H., JR., 1969, Circum-Pacific late Cenozoic structural rejuvenation--Implications for sea floor spreading.

DUNCAN, R. A.; MCELWEE, K. R., COMPILERS, 1984, Cenozoic plate reconstructions.

DURHAM, J. W., 1977, Pacific coast Cenozoic middle and high latitude Echinoidea [abstract].

FLORER-HEUSSER, L. E., 1975, Late Cenozoic marine palynology of northeastern Pacific Ocean cores.

KULM, L. D.; FOWLER, G. A., 1974, Cenozoic sedimentary framework of the Gorda-Juan de Fuca Plate and adjacent continental margin --A review.

RIDDIHOUGH, R. P.; HYNDMAN, R. D., 1977, The recent interaction between continent and ocean floor in the Pacific Northwest [abstract].

CHROMIUM

CUTSHALL, N. H., 1967, Chromium-51 in the Columbia River and adjacent Pacific Ocean.*

CLAY

ARCARO, N. P.; CARSON, BOBB, 1978, Clay mineralogy of Cascadia Basin Quaternary sediments--Control by provenance, weathering, or selective transport? [abstract].

CARSON, BOBB; ARCARO, N. P., 1983, Control of clay-mineral stratigraphy by selective transport in late Pleistocene-Holocene sediments of northern Cascadia Basin-Juan de Fuca abyssal plain--Implications for studies of clay-mineral provenance.

OLMSTEAD, D. L., 1972, Clay mineralogy of the Washington continental slope.

STOKKE, P. R.; CARSON, BOBB, 1974, Clay mineralogy of Cascadia Basin-Juan de Fuca abyssal plain (northeast Pacific Ocean) Quaternary sediments [abstract].

COBB OFFSET

JOHNSON, H. P.; KARSTEN, J. L.; DELANEY, J. R.; DAVIS, E. E.; CURRIE, R. G.; CHASE, R.

L., 1983, A detailed study of the Cobb offset of the Juan de Fuca Ridge--Evolution of a propagating rift.

KAPPEL, E. S.; RYAN, W. B. F., 1986, Volcanic episodicity and a non-steady state rift valley along northeast Pacific spreading centers--Evidence from Sea MARC I.

KARSTEN, J. L.; JOHNSON, H. P.; DELANEY, J. R.; AND OTHERS, 1982, A detailed study of the Cobb offset of the Juan de Fuca Ridge--Evolution of a propagating rift [abstract].

COBB SEAMOUNT

BLACKSTOCK, C. G.; GAVIN, J. E., 1969, Cobb Seamount model.

BUDINGER, T. F., 1957, Geology, biology, and hydrography of Cobb Seamount.

BUDINGER, T. F., 1967, Cobb Seamount.

DESONIE, D. L.; DUNCAN, R. A., 1986, Spreading ridge and hotspot contributions to seamounts near the Juan de Fuca Ridge [abstract].

DYMOND, J. R.; WATKINS, N. D.; NAYUDU, Y. R., 1968, Age of the Cobb Seamount.

ENGEL, C. G.; ENGEL, A. E. J., 1963, Basalts dredged from the northeastern Pacific Ocean.

KARSTEN, J. L.; DELANEY, J. R., 1986, Hot spot/migrating ridge crest interaction--Juan de Fuca style [abstract].

MENARD, H. W., 1969, Growth of drifting volcanos.

MERRILL, R. T.; BURNS, R. E., 1972, A detailed magnetic study of Cobb Seamount.

NAYUDU, Y. R.; CHASTAIN, CHARLETTE; WIENKE, S. M.; LATTERELL, H. M., 1969, Petrology of Cobb Seamount [abstract].

NAYUDU, Y. R.; ENBYSK, B. J., 1964, Biolithology of northeast Pacific surface sediments.

PALMER, JEB; DELANEY, J. R., 1987, Progressive merging of uniaxial and radial stress fields during ridge crest-hot spot convergence [abstract].

PAYTON, W. H.; LAVIN, P. M., 1987, Application of directional filtering to separate Juan de Fuca seamount magnetic anomalies from seafloor magnetic lineations [abstract].

SANDS, W. C.; FENTON, D. R., 1966, Cobb Sea Mount [abstract].

SCHWARTZ, M. L., 1972, Seamounts as sea-level indicators.*

SCHWARTZ, M. L.; LINGBLOOM, K. L., 1973, Research submersible reconnaissance of Cobb Seamount.*

TUNNICLIFFE, VERENA; CHASE, R. L.; FARROW, G.; NELSON, D., 1983, Rocks, sediments and benthos of Cobb seamount, N.E. Pacific Ocean [abstract].

COLUMBIA RIVER SEDIMENTS

BERG, J. W., JR.; KING, J. M.; CARLSON, P. R., 1966, Seismic reflection studies of buried channels off the Columbia River.

CUTSHALL, N. H.; LARSEN, I. L.; OLSEN, C. R.; NITTROUER, C. A.; DEMASTER, D. J., 1983, Columbia River sediment in Quinault Canyon--Implications for deep ocean waste disposal [abstract].

GRIGGS, G. B.; KULM, L. D.; WATERS, A. C.; FOWLER, G. A., 1970, Deep-sea gravel from Cascadia channel.

GROSS, M. G.; CAREY, A. G., JR.; FOWLER, G. A.; KULM, L. D., 1972, Distribution of organic carbon in surface sediments, northeast Pacific Ocean.

HARMON, R. A., 1972, The distribution of microbiogenic sediment near the mouth of the Columbia River.

MCMANUS, D. A., 1972, Bottom topography and sediment texture near the Columbia River mouth.

NELSON, C. H.; CARLSON, P. R.; BYRNE, J. V.; ALPHA, T. R., 1970, Development of the Astoria Canyon-fan physiography and comparison with similar systems.

NELSON, H., 1976, Late Pleistocene and Holocene depositional trends, processes and history of Astoria deep-sea fan, northeast Pacific.

NITTROUER, C. A.; STERNBERG, R. W., 1981, The formation of sedimentary strata in an allochthonous shelf environment--The Washington continental shelf.

PRAHL, F. G., 1985, Chemical evidence of differential particle dispersal in the southern Washington coastal environment.

PRAHL, F. G.; CARPENTER, ROY, 1984, Hydrocarbons in Washington coastal sediments.

SNYDER, G. W.; CARSON, BOBB, 1986, Bottom and suspended particle sizes--Implications for modern sediment transport in Quinault submarine canyon.

STERNBERG, R. W.; CREAGER, J. S.; GLASSLEY, W. E.; JOHNSON, J., 1977, Stability of dredged material deposited at ocean dumping sites seaward of Columbia River mouth [abstract].

STERNBERG, R. W.; CREAGER, J. S.; JOHNSON, J.; GLASSLEY, W. E., 1979, Stability of dredged material deposited seaward of the Columbia River mouth.

THORBJARNARSON, K. W.; NITTROUER, C. A.; DEMASTER, D. J., 1983, Modern sediment accumulation in Quinault Submarine Canyon, Washington [abstract].

THORBJARNARSON, K. W.; NITTROUER, C. A.; DEMASTER, D. J., 1986, Accumulation of modern sediment in Quinault submarine canyon.

COLUMBIA RIVER SEDIMENTS - RADIOACTIVITY

BARNES, C. A.; GROSS, M. G., 1966, Distribution at sea of Columbia River water and its load of radionuclides.

CUTSHALL, N. H., 1967, Chromium-51 in the Columbia River and adjacent Pacific Ocean.*

CUTSHALL, N. H.; LARSEN, I. L.; OLSEN, C. R.; NITTROUER, C. A.; DEMASTER, D. J., 1986, Columbia River sediment in Quinault Canyon, Washington--Evidence from artificial radionuclides.

CUTSHALL, N. H.; RENFRO, W. C.; EVANS, D. W.; JOHNSON, V. G., 1971, Zinc-65 in Oregon -Washington continental shelf sediments.

FORSTER, W. O., 1972, Radionuclide distribution in Columbia River and adjacent Pacific shelf sediments.

GROSS, M. G., 1963, Radioactivity of marine sediments near the Columbia River in 1962 [abstract].

GROSS, M. G., 1965, Distribution of radioactive Columbia River sediment on the Washington-Oregon continental shelf [abstract].

GROSS, M. G., 1966, Distribution of radioactive marine sediment derived from the Columbia River.

GROSS, M. G., 1968, Distribution and movement of radioactive Columbia River sediment on the continental shelf of Washington and Oregon [abstract].

GROSS, M. G., 1972, Sediment-associated radionuclides from the Columbia River.

GROSS, M. G.; BARNES, C. A.; RIEL, G. K., 1964, Radioactivity of the Columbia River discharge in the northeast Pacific Ocean in August 1963 [abstract].

GROSS, M. G.; MCMANUS, D. A.; CREAGER, J. S., 1963, Preliminary report on the sediments and radioactivity in the vicinity of the Columbia River effluent.

MORSE, B.-A.; GROSS, M. G.; BARNES, C. A., 1968, Movement of seabed drifters near the Columbia River.*

OSTERBERG, C. L.; KULM, L. D.; BYRNE, J. V., 1963, Gamma emitters in marine sediments near the Columbia River.

SEYMOUR, A. H.; LEWIS, G. B., 1964, Radionuclides of Columbia River origin in marine organisms, sediments, and water collected from the coastal and offshore waters of Washington and Oregon, 1961-63.

SMETHIE, W. M., JR.; NITTROUER, C. A.; SELF, R. F. L., 1981, The use of Radon-222 as a tracer of sediment irrigation and mixing on the Washington continental shelf.

CONTINENTAL MARGIN

see also

CONTINENTAL SHELF
CONTINENTAL SLOPE

JOHNSON, S. Y.; BRANDON, M. T.; STEWART, R. J., 1984, Geology and geologic history of western Washington and southern Vancouver Islands.

KULM, L. D.; AND OTHERS, EDITORS, 1984, Western North American continental margin and adjacent ocean floor off Oregon and Washington.

KULM, L. D.; LOUBERE, P. W.; PEPER, J. S., COMPILERS, 1984, Geology of continental margin and Cascadia Basin.

MCMANUS, D. A., 1965, Physiography of the sea floor between the Mendocino Ridge and Vancouver Island, northeast Pacific Ocean [abstract].

NIEM, A. R.; NIEM, W. A.; JOHNSON, S. Y.; BRANDON, M. T.; STEWART, R. J., 1984, Legend for geology and cross sections.

CONTINENTAL MARGIN - BATHYMETRY

CHASE, T. E.; WILDE, P.; NORMARK, W. R.; MILLER, C. P.; SEEKINS, B. A.; YOUNG, J. D., 1981, Offshore topography of the western United States between 32 degrees and 49 degrees north latitudes.

CONNARD, GERRY; COUCH, R. W.; PITTS, G. S.; TROSETH, S., COMPILERS, 1984, Bathymetry and topography.

GERIN, MARYBETH; STEVENSON, A. J., COMPILERS, 1979, Equal-area base map of the north Pacific Ocean, northeast section; Albers equal-area projection.

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

MCNUTT, MARCIA, 1979, Compensation of oceanic topography--An application of the response function technique to the Surveyor area.

WAGNER, H. C., 1985, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental shelf and upper continental slope off southwestern Washington between latitudes 46 degrees N. and 47 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W.

WAGNER, H. C.; BATATIAN, L. D.; LAMBERT, T. M.; TOMSON, J. H., 1986, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental slope off southwestern Washington between latitudes 46 degrees N. and 48 degrees 30 minutes N. and from the Washington coast to 125 degrees W.

CONTINENTAL MARGIN - EARTHQUAKES AND SEISMOLOGY

ADAMS, JOHN, 1984, Active deformation of the Pacific Northwest continental margin.

CROSSON, R. S., 1986, Where is the subducting slab beneath the Pacific Northwest? [abstract].

CROSSON, R. S.; CROSSON, E. L., 1986, Preliminary analysis of Juan de Fuca plate seismicity using the Washington Regional Seismograph Network [abstract].

KELLY, S. M.; CROSSON, R. S., COMPILERS, 1984, Historical seismicity 1841-1979.

ROGERS, G. C., 1987, Megathrust potential of the Cascadia subduction zone [abstract].

TABER, J. J., JR., 1983, Crustal structure and seismicity of the Washington continental margin.

TOBIN, D. G.; SYKES, L. R., 1968, Seismicity and tectonics of the northeast Pacific Ocean.*

WAHLSTROM, R.; ROGERS, G. C.; ELLIS, R. M., 1987, Seismicity reassessment and earthquake focal mechanisms for the northern Juan de Fuca Ridge system [abstract].

CONTINENTAL MARGIN - GEOMORPHOLOGY

BYRNE, J. V., 1963, Geomorphology of the continental terrace off the northern coast of Oregon.

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1984, Geomorphic features of the Oregon-Washington EEZ [abstract].

KOMAR, P. D., 1973, Continuity of turbidity current flow and systematic variations in deep-sea channel morphology.

CONTINENTAL MARGIN - GEOPHYSICS

COUCH, R. W.; CONNARD, GERRY; KIENLE, C. R., 1980, Sediment thicknesses and tectonic lineations of the northern Juan de Fuca plate and Washington continental margin [abstract].

DEHLINGER, PETER; COUCH, R. W.; MCMANUS, D. A.; GEMPERLE, MICHAEL, 1970, Northeast Pacific structure.

GARDNER, J. V.; CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G., 1986, Sonograph mosaic of U.S. west coast Exclusive Economic Zone [abstract].

HAMPTON, M. A.; CACCHIONE, D. A.; DRAKE, D. E.; KARL, N. H.; KENYON, N. H.; MASSON, D. G., 1986, GLORIA mosaic of west coast U.S. Exclusive Economic Zone, northern sector [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1985, Geomorphic features of Oregon-Washington project EEZ-SCAN [abstract].

INTERNATIONAL SYMPOSIUM ON THE ENGINEERING PROPERTIES OF SEA-FLOOR SOILS AND THEIR GEOPHYSICAL IDENTIFICATION, 1971, Proceedings.

JOHNSON, H. P.; DELANEY, J. R., 1980, Interaction of a hot spot and a mid-ocean ridge--The Juan de Fuca Ridge crest [abstract].

MCCLAIN, K. J., 1981, A geophysical study of accretionary processes on the Washington continental margin.*

SILVER, E. A., 1978, Geophysical studies and tectonic development of the continental margin off the western United States, lat. 34 degrees to 48 degrees N.

SNAVELY, P. D., JR.; WAGNER, H. C., 1983, Geophysical data collected across the continental margin between Washington and Oregon along line 16, USGS R/V S. P. Lee cruise 11-80.

TABER, J. J., JR., 1983, Crustal structure and seismicity of the Washington continental margin.

TIFFIN, D. L., 1973, Marine geophysical activities on the Pacific margin.

U.S. GEOLOGICAL SURVEY, 1978, California to Washington [abstract].

WILDE, P.; CHASE, T. E.; HOLMES, M. L.; NORMARK, W. R.; THOMAS, J. A., 1977, Oceanographic data off Washington, 46 degrees to 49 degrees north including the Nitinat deep sea fan.

WISSMANN, GERD, 1971, Marine geophysical studies offshore Cape Flattery, Washington, and the implications for regional tectonics.

CONTINENTAL MARGIN - GEOPHYSICS - GRAVITY SURVEYS

CONNARD, GERRY; COUCH, R. W.; PITTS, G. S.; ROY, J.; KEELING, KENNETH; PITTS, P.; WATKINS, R. ; PEPER, J. S., COMPILERS, 1984, Free-air gravity anomalies.

CONNARD, GERRY; COUCH, R. W.; PITTS, G. S.; TROSETH, S., COMPILERS, 1984, Simple Bouguer gravity anomalies.

COUCH, R. W., 1969, Gravity and structures of the continental margin off Washington and British Columbia [abstract].

COUCH, R. W., 1969, Gravity and structures of the crust and subcrust in the northeast Pacific Ocean west of Washington and British Columbia.*

COUCH, R. W., 1972, Gravity and structure of the continental margin of the northeast Pacific Ocean [abstract].

DEHLINGER, PETER; CHIBURIS, E. F., 1972, Gravity at sea.

DEHLINGER, PETER; COUCH, R. W., 1971, Gravity investigations west of the coasts of Oregon, Washington, and northern California [abstract].

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

MCNUTT, MARCIA, 1979, Compensation of oceanic topography--An application of the response function technique to the Surveyor area.

RIDDIHOUGH, R. P., 1979, Gravity and structure of an active margin--British Columbia and Washington.

SEIDEL, DEAN; ELVERS, D. J.; POTTER, KENNETH; MORLEY, JOSEPH; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO; IWABUCHI, YOSHIO; IIZUKA, SUSAMI; AND OTHERS, 1973, Gravity profiles--Northeast Pacific.

CONTINENTAL MARGIN - GEOPHYSICS - MAGNETIC SURVEYS

ATWATER, T. M., 1971, Magnetic lineations in the northeast Pacific Ocean--Implications for marine and continental tectonic history [abstract].

ATWATER, T. M.; MENARD, H. W., 1970, Magnetic lineations in the northeast Pacific.

CONNARD, GERRY; COUCH, R. W.; NESS, G.; TROSETH, S., COMPILERS, 1984, Magnetic anomaly identifications.

CONNARD, GERRY; COUCH, R. W.; PITTS, G. S.; ROY, J.; GEMPERLE, MICHAEL; TROSETH, S., COMPILERS, 1984, Magnetic total intensity anomalies.

HAYES, D. E.; PITMAN, W. C., III, 1970, Magnetic lineations in the north Pacific.

IRVING, E.; ROY, J. L., 1968, Intensite et stabilite d'aimantation des basaltes de l'Oregon et Washington et leurs applications a l'expansion du fond de l'ocean et a d'autres problemes geophysiques.

PETER, GEORGE, 1969, Magnetic structural provinces in the northeast Pacific Ocean [abstract].

PITMAN, W. C., III, 1967, Magnetic anomalies in the Pacific and ocean floor spreading.*

PITMAN, W. C., III; HERRON, E.; HEIRTZLER, J. R., 1968, Magnetic anomalies in the Pacific and ocean floor spreading.

RAFF, A. D., 1966, Boundaries of an area of very long magnetic anomalies in the northeast Pacific.

SNAVELY, P. D., JR., 1981, Geophysical data collected on the continental margin midway between Washington State and Vancouver Island, B. C., along line 19, USGS R/V S.P. Lee cruise 3-76.

U.S. GEOLOGICAL SURVEY, 1980, Aeromagnetic map of offshore northwest Washington.

VINE, F. J.; WILSON, J. T., 1965, Magnetic anomalies over a young oceanic ridge off Vancouver Island.

WAGNER, H. C., 1985, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental shelf and upper continental slope off southwestern Washington between latitudes 46 degrees N. and 47 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W.

WAGNER, H. C.; BATATIAN, L. D.; LAMBERT, T. M.; TOMSON, J. H., 1986, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks c. the continental slope off southwestern Washington between latitudes 46 degrees N. and 48 degrees 30 minutes N. and from the Washington coast to 125 degrees W.

WILSON, J. T., 1965, Transform faults, oceanic ridges, and magnetic anomalies southwest of Vancouver Island.

CONTINENTAL MARGIN - GEOPHYSICS - SEISMIC SURVEYS

BORNHOLD, B. D.; BRANDON, M. T.; CLOWES, R. M.; CURRIE, R. G.; DAVIS, E. E.; HUSSONG, D. M.; HYNDMAN, R. D.; RIDDIHOUGH, R. P.; ROGERS, G. C.; YORATH, C. J., 1986, Recent acoustic studies of western Canadian continental margin [abstract].

CARSON, BOBB; YUAN, J.-W., 1972, Pattern of deep-sea sediment deformation at a compressive continental margin [abstract].

CHASE, T. E.; HOLMES, M. L.; WILDE, P.; NORMARK, W. R., 1977, Compilation of marine geologic and oceanographic data off the western United States; Cascadia sheet [abstract].

CHASE, T. E.; NORMARK, W. R.; WILDE, P., 1976, Compilations of marine geologic and oceanographic data off the west coast of the United States [abstract].

COCHRANE, G. R.; LEWIS, B. T. R., 1984, Comparison of structures in underthrusting and overthrusting lower slope sediments of the Washington-Oregon convergent margin [abstract].

ELLIS, R. M.; SPENCE, G. D.; CLOWES, R. M.; WALDRON, D. A.; JONES, I. F.; GREEN, A. G.; FORSYTH, D. A.; MAIR, J. A.; BERRY, M. J.; AND OTHERS, 1983, The Vancouver Island seismic project--A CO-CRUST onshore-offshore study of a convergent margin.

FIELD, M. E.; CARLSON, P. R.; HALL, R. K., 1983, Seismic facies of shelfedge deposits, U.S. Pacific continental margin.

HENDRICKSON, M. A., 1986, The determination of seismic structure from teleseismic P waveforms on the Washington continental margin.

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

KULM, L. D.; PEPER, J. S.; HOLMES, M. L., COMPILERS, 1984, Seismic reflection tracklines.

KULM, L. D.; PETERSON, C. P., COMPILERS, 1984, Multichannel seismic records of northern Washington and central Oregon margin.

LEWIS, B. T. R., 1984, Analysis of Washington margin deep-tow seismic reflection data.

LEWIS, B. T. R., COMPILER, 1984, Deep-tow seismic reflection experiment, Washington margin.

LEWIS, B. T. R.; COCHRANE, G. R., 1984, Comparison of seismic reflection methods used to study the Washington-Oregon margin [abstract].

MANN, D. M.; SNAVELY, P. D., JR., 1984, Multichannel seismic-reflection profiles collected in 1977 in the eastern Pacific Ocean off of the Washington/Oregon coast.

MCCLAIN, K. J.; TABER, J. J., JR., COMPILERS, 1984, Regional seismic refraction.

RIDDIHOUGH, R. P., 1979, Gravity and structure of an active margin--British Columbia and Washington.

SNAVELY, P. D., JR., 1979, Stratigraphic and tectonic framework, Oregon-Washington continental margin [abstract].

SNAVELY, P. D., JR., 1981, Geophysical data collected on the continental margin midway between Washington State and Vancouver Island, B. C., along line 19, USGS R/V S.P. Lee cruise 3-76.

TABER, J. J., JR.; LEWIS, B. T. R., 1986, Crustal structure of the Washington continental margin from refraction data.

TOBIN, D. G.; SYKES, L. R., 1968, Seismicity and tectonics of the northeast Pacific Ocean.*

CONTINENTAL MARGIN - GEOPHYSICS - THERMAL SURVEYS

CONNARD, GERRY; COUCH, R. W.; ROY, J.; PITTS, G. S.; KULM, S., COMPILERS, 1984, Heat flow.

LANGSETH, M. G.; HOBART, M. A., 1984, A marine geothermal study over deformed sediments of the subduction complex off Oregon and Washington [abstract].

SCHEIDEGGER, K. F., COMPILER, 1984, Thermal evolution of the Juan de Fuca Plate.

CONTINENTAL MARGIN - GEOPHYSICS - TILT SURVEYS

ADAMS, JOHN, 1984, Active deformation of the Pacific Northwest continental margin.

CONTINENTAL MARGIN - MAPS - GEOLOGIC

SNAVELY, P. D., JR.; WAGNER, H. C., 1981, Geologic cross section across the continental margin off Cape Flattery, Washington, and Vancouver Island, British Columbia.

SNAVELY, P. D., JR.; WAGNER, H. C., 1982, Geologic cross section across the continental margin of southwestern Washington.

WAGNER, H. C., 1985, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental shelf and upper continental slope off southwestern Washington between latitudes 46 degrees N. and 47 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W.

WAGNER, H. C.; BATATIAN, L. D.; LAMBERT, T. M.; TOMSON, J. H., 1986, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental slope off southwestern Washington between latitudes 46 degrees N. and 48 degrees 30 minutes N. and from the Washington coast to 125 degrees W.

CONTINENTAL MARGIN - MAPS - GEOPHYSICAL

U.S. GEOLOGICAL SURVEY, 1980, Aeromagnetic map of offshore northwest Washington.

WAGNER, H. C., 1985, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental shelf and upper continental slope off southwestern Washington between latitudes 46 degrees N. and 47 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W.

WAGNER, H. C.; BATATIAN, L. D.; LAMBERT, T. M.; TOMSON, J. H., 1986, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental slope off southwestern Washington between latitudes 46 degrees N. and 48 degrees 30 minutes N. and from the Washington coast to 125 degrees W.

CONTINENTAL MARGIN - MINERAL RESOURCES

CRUICKSHANK, M. J., 1974, Mineral resources potential of continental margins.

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

HOLSER, A. F.; MCGREGOR, B. A.; ROWLAND, R. W.; GOUD, M. R., 1984, United States government initiatives in the assessment and development of the mineral resources of the exclusive economic zone of the United States.

JONES, C. J.; MURRAY, J. W., 1984, Nickel, cadmium, and copper in the northeast Pacific off the coast of Washington.

JONES, C. J.; MURRAY, J. W., 1985, The geochemistry of manganese in the northeast Pacific Ocean off Washington.

LASMANIS, RAYMOND, 1983, Offshore metal deposits--Washington and Oregon.

MANHEIM, F. T.; HESS, H. D., 1981, Offshore hard minerals around the U.S. continental margins.

MCKELVEY, V. E.; WANG, F. F. H., 1969, World subsea mineral resources.

ROWLAND, R. W.; MCGREGOR, B. A., 1984, Recommendations from the Department of the Interior EEZ Symposium.

SNAVELY, P. D., JR., 1986, Tertiary evolution and petroleum potential of Oregon-Washington continental margin [abstract].

CONTINENTAL MARGIN - MINERAL RESOURCES - PETROLEUM EXPLORATION

BELL, G. L., 1967, Big potential oil basins offshore from west coast.

BERRYHILL, H. L., JR., 1974, The worldwide search for petroleum offshore--A status report for the quarter century, 1947-72.

BRAISLIN, D. B.; HASTINGS, D. D.; SNAVELY, P. D., JR., 1971, Petroleum potential of western Oregon and Washington and adjacent continental margin.

DEACON, R. J.; NEWTON, V. C., JR., 1965, Review of coastal stratigraphy of Oregon and Washington with comments on 1965 activity [abstract].

EDGAR, N. T., 1983, Oil and gas resources of the U.S. continental margin.

KLITGORD, K. D.; WATKINS, J. S., PANEL CHAIRMEN, 1984, Geologic studies related to oil and gas development in the EEZ--West Coast Pacific margin.

KORNFELD, J. A., 1964, October lease sales spur Northwest U.S. oil search.

MCCASLIN, J. C., 1965, Offshore Pacific Northwest--"Much ado about something..."

MCKELVEY, V. E.; WANG, F. F. H., 1969, World subsea mineral resources.

NEWTON, V. C., JR., 1964, Activity increasing in the Northwest.

NEWTON, V. C., JR., 1967, Summary of oil and gas exploration off the coast of Oregon and Washington, 1961-1966.

NEWTON, V. C., JR.; NEWHOUSE, C. J., 1964, Oil leasing on the outer continental shelf adjacent to Oregon and Washington.

ROWLAND, R. W.; MCGREGOR, B. A., 1984, Recommendations from the Department of the Interior EEZ Symposium.

SKORNYAKOVA, N. S., 1979, Zonal regularities in occurrence, morphology and chemistry of manganese nodules of the Pacific Ocean.

U.S. GEOLOGICAL SURVEY, 1978, California to Washington [abstract].

U.S. GEOLOGICAL SURVEY, 1978, Marine geology and coastal hydrology; coastal and marine geology; Pacific Continental Margin.

ZIEGLAR, D. L.; CASSELL, J. K., 1978, A synthesis of OCS well information, offshore central and northern California, Oregon, and Washington.*

CONTINENTAL MARGIN - PALEONTOLOGY

ADDICOTT, W. O., 1969, Tertiary climatic change in the marginal northeastern Pacific Ocean.

BARNARD, W. D.; MCMANUS, D. A., 1973, Planktonic foraminiferan-radiolarian stratigraphy and the Pleistocene-Holocene boundary in the northeast Pacific.

CARSON, BOBB; MCMANUS, D. A., 1971, Analysis of turbidite correlation in Cascadia Basin, northeast Pacific Ocean.

DANNER, W. R., 1970, Paleontologic and stratigraphic evidence for and against sea floor spreading and opening and closing oceans in the Pacific Northwest [abstract].

ECHOLS, R. J.; BARNES, S. S.; HARMAN, R. A., 1969, Sediment-foraminiferal relations within inner sublittoral zone off coast of Washington [abstract].

ENBYSK, B. J., 1965, Coiling direction ratios of Foraminifera Globigerina pachyderma (Ehrenberg) in northeastern Pacific surface sediments [abstract].

FLORER, L. E., 1974, Pollen analyses of marine cores off the Washington coast [abstract].*

FOWLER, G. A., 1977, Radiolarian-planktonic Foramininfera ratios and Pleistocene deep-sea stratigraphy in the northeastern Pacific off Oregon and Washington [abstract].

FOWLER, G. A.; KULM, L. D.; DUNCAN, J. R.; GRIGGS, G. B., 1969, Late Quaternary deep-sea stratigraphy and paleoclimatology of a middle to high region, northeastern Pacific [abstract].

HEUSSER, L. E.; BALSAM, W. L., 1975, Distributional patterns of pollen from the Northeast Pacific Ocean [abstract].

HEUSSER, L. E.; BALSAM, W. L., 1977, Pollen distribution in the northeast Pacific Ocean.

HICKMAN, C. S.; LINDBERG, D. R., 1984, Relationship of molluscan biogeographic anomalies to changing settings on an active continental margin [abstract].

INGLE, J. C., JR., 1966, Pliocene-Miocene boundary in temperate eastern Pacific [abstract].

LING, H.-Y., 1966, The radiolarian Protocystis thomsoni (Murray) in the northeast Pacific Ocean.

WELTON, B. J., 1980, Late Cretaceous and Cenozoic Squalomorphii of the northeast Pacific Ocean [abstract].

CONTINENTAL MARGIN - SEDIMENTS

BARNARD, W. D., 1973, Late Pleistocene deformation of Cascadia Basin turbidites along Washington continental margin [abstract].

BORNHOLD, B. D.; BRANDON, M. T.; CLOWES, R. M.; CURRIE, R. G.; DAVIS, E. E.; HUSSONG, D. M.; HYNDMAN, R. D.; RIDDIHOUGH, R. P.; ROGERS, G. C.; YORATH, C. J., 1986, Recent acoustic studies of western Canadian continental margin [abstract].

CARSON, BOBB, 1974, Sediment modification related to subduction--Washington-Oregon continental margin [abstract].

CARSON, BOBB, 1977, Tectonically induced deformation of deep-sea sediments off Washington and northern Oregon--Mechanical consolidation.

CARSON, BOBB; MCMANUS, D. A., 1971, Analysis of turbidite correlation in Cascadia Basin, northeast Pacific Ocean.

CARSON, BOBB; SNYDER, G. W.; BAKER, E. T., 1984, Sediment dispersal and accumulation in Quinault Canyon--Introduction and implications of particle size analysis [abstract].

CARSON, BOBB; YUAN, J.-W., 1972, Pattern of deep-sea sediment deformation at a compressive continental margin [abstract].

CHASE, T. E.; HOLMES, M. L.; WILDE, P.; NORMARK, W. R., 1977, Compilation of marine geologic and oceanographic data off the western United States; Cascadia sheet [abstract].

CHASE, T. E.; NORMARK, W. R.; WILDE, P., 1976, Compilations of marine geologic and oceanographic data off the west coast of the United States [abstract].

CONNARD, GERRY; COUCH, R. W.; KEELING, KENNETH; ROY, J.; TROSETH, S., COMPILERS, 1984, Abyssal plain and continental net-objective sedimentary thicknesses.

COUCH, R. W.; CONNARD, GERRY; KIENLE, C. R., 1980, Sediment thicknesses and tectonic lineations of the northern Juan de Fuca plate and Washington continental margin [abstract].

DAUPHIN, J. P., 1980, Size distribution of chemically extracted quartz used to characterize fine-grained sediments.

DAUPHIN, J. P.; MOORE, T. C., JR.; HEATH, G. R., 1973, Rates of accumulation of quartz, opal, organic carbon and calcium carbonate in Cascadia Basin, northeast Pacific [abstract].

DUNCAN, J. R.; KULM, L. D., 1968, Post-glacial and late Pleistocene sedimentation in the abyssal environments off Oregon-Washington [abstract].

ECHOLS, R. J.; BARNES, S. S.; HARMAN, R. A., 1969, Sediment-foraminiferal relations within inner sublittoral zone off coast of Washington [abstract].

FIELD, M. E.; CARLSON, P. R.; HALL, R. K., 1983, Seismic facies of shelfedge deposits, U.S. Pacific continental margin.

FOWLER, G. A., 1977, Radiolarian-planktonic Foramininfera ratios and Pleistocene deep-sea stratigraphy in the northeastern Pacific off Oregon and Washington [abstract].

FOWLER, G. A.; KULM, L. D.; DUNCAN, J. R.; GRIGGS, G. B., 1969, Late Quaternary deep-sea stratigraphy and paleoclimatology of a middle to high region, northeastern Pacific [abstract].

GRIGGS, G. B.; KULM, L. D., 1969, Glacial marine sediments from the northeast Pacific.

GRIGGS, G. B.; KULM, L. D., 1970, Sedimentation in Cascadia deep-sea channel.

GROSS, M. G., 1965, The carbonate content of surface sediments from the northeast Pacific Ocean.

GRUNDMANIS, VARIS; MURRAY, J. W., 1978, Interstitial water chemistry in the Cascadia basin [abstract].

HARMAN, R. A., 1969, Process affecting distribution of foraminifera and other biogenic sediment components off coast of Washington and Oregon [abstract].

HEDGES, J. I.; MANN, D. C., 1979, The lignin geochemistry of marine sediments from the southern Washington coast.

HEUSSER, L. E.; BALSAM, W. L., 1977, Pollen distribution in the northeast Pacific Ocean.

HORN, D. R.; DELACH, M. N.; HORN, B. M., 1969, Distribution of volcanic ash layers and turbidites in the north Pacific.

HOWELL, D. G.; ALPHA, T. R.; JOYCE, J. M., 1980, Plate tectonics, physiography, and sedimentation of the northeast Pacific region.

KILBOURNE, R. T.; GIBSON, C. N., 1979, Use of Neogloboquadrina pachyderma (Ehrenberg) coiling ratio curves for chronostratigraphic correlations of Quaternary marine sediments along the west coast [abstract].

KULM, L. D.; FOWLER, G. A., 1974, Cenozoic sedimentary framework of the Gorda-Juan de Fuca Plate and adjacent continental margin --A review.

KULM, L. D.; SCHEIDEGGER, K. F., 1979, Quaternary sedimentation on the tectonically active Oregon continental slope.

LING, H.-Y., 1968, Radiolaria in surface sediments of northeast Pacific Ocean [abstract].

MAXWELL, J. C., 1974, Early western margin of the United States.

NAYUDU, Y. R., 1964, Carbonate deposits and paleoclimatic implications in the northeast Pacific Ocean.

NAYUDU, Y. R.; ENBYSK, B. J., 1964, Biolithology of northeast Pacific surface sediments.

NELSON, C. H., 1985, Astoria Fan, Pacific Ocean.

NELSON, C. H.; KULM, L. D.; CARLSON, P. R.; DUNCAN, J. R., 1968, Mazama ash in the northeastern Pacific.

PRAHL, F. G., 1984, Hopene for greater sedimentological understanding [abstract].

PRAHL, F. G., 1985, Chemical evidence of differential particle dispersal in the southern Washington coastal environment.

RITGER, S. D.; CARSON, BOBB; SUESS, ERWIN, 1987, Methane-derived authigenic carbonates formed by subduction-induced pore-water expulsion along the Oregon/Washington margin.

RUNGE, E. J., JR., 1966, Continental shelf sediments, Columbia River to Cape Blanco, Oregon.

SCHEIDEGGER, K. F.; KRISSEK, L. A.; BABA, L., COMPILERS, 1984, Texture and mineralogy of continental margin sediments.

SHEPHARD, L. E., 1981, Geotechnical properties of select convergent margin sediments.*

SKORNYAKOVA, N. S., 1979, Zonal regularities in occurrence, morphology and chemistry of manganese nodules of the Pacific Ocean.

SNAVELY, P. D., JR., 1986, Tertiary evolution and petroleum potential of Oregon-Washington continental margin [abstract].

SNAVELY, P. D., JR.; WAGNER, H. C., 1980, Generalized isopach map of Tertiary sedimentary rocks, western Oregon and Washington, and adjacent continental margin.

STOKKE, P. R.; CARSON, BOBB, 1974, Clay mineralogy of Cascadia Basin-Juan de Fuca abyssal plain (northeast Pacific Ocean) Quaternary sediments [abstract].

SUESS, ERWIN; MASSOTH, G. J., 1984, Evidence for venting of pore waters from subducted sediments of the Oregon continental margin [abstract].

THORBJARNARSON, K. W.; NITTROUER, C. A.; DEMASTER, D. J., 1986, Accumulation of modern sediment in Quinault submarine canyon.

WAGNER, H. C., 1985, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental shelf and upper continental slope off southwestern Washington between latitudes 46 degrees N. and 47 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W.

WAGNER, H. C.; BATATIAN, L. D.; LAMBERT, T. M.; TOMSON, J. H., 1986, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental slope off southwestern Washington between latitudes 46 degrees N. and 48 degrees 30 minutes N. and from the Washington coast to 125 degrees W.

CONTINENTAL MARGIN - STRATIGRAPHY

BARNARD, W. D.; MCMANUS, D. A., 1973, Planktonic foraminiferan-radiolarian stratigraphy and the Pleistocene-Holocene boundary in the northeast Pacific.

CARSON, BOBB; MCMANUS, D. A., 1971, Analysis of turbidite correlation in Cascadia Basin, northeast Pacific Ocean.

CONNARD, GERRY; COUCH, R. W.; KEELING, KENNETH; ROY, J.; TROSETH, S., COMPILERS, 1984, Abyssal plain and continental net-objective sedimentary thicknesses.

DANNER, W. R., 1970, Paleontologic and stratigraphic evidence for and against sea floor spreading and opening and closing oceans in the Pacific Northwest [abstract].

DEACON, R. J.; NEWTON, V. C., JR., 1965, Review of coastal stratigraphy of Oregon and Washington with comments on 1965 activity [abstract].

FOWLER, G. A., 1977, Radiolarian-planktonic Foramininfera ratios and Pleistocene deep-sea stratigraphy in the northeastern Pacific off Oregon and Washington [abstract].

FOWLER, G. A.; KULM, L. D.; DUNCAN, J. R.; GRIGGS, G. B., 1969, Late Quaternary deep-sea stratigraphy and paleoclimatology of a middle to high region, northeastern Pacific [abstract].

HEUSSER, L. E.; BALSAM, W. L., 1977, Pollen distribution in the northeast Pacific Ocean.

HORN, D. R.; DELACH, M. N.; HORN, B. M., 1969, Distribution of volcanic ash layers and turbidites in the north Pacific.

INGLE, J. C., JR., 1966, Pliocene-Miocene boundary in temperate eastern Pacific [abstract].

KILBOURNE, R. T.; GIBSON, C. N., 1979, Use of Neogloboquadrina pachyderma (Ehrenberg) coiling ratio curves for chronostratigraphic correlations of Quaternary marine sediments along the west coast [abstract].

NELSON, C. H., 1985, Astoria Fan, Pacific Ocean.

SNAVELY, P. D., JR., 1979, Stratigraphic and tectonic framework, Oregon-Washington continental margin [abstract].

SNAVELY, P. D., JR.; WAGNER, H. C., 1980, Generalized isopach map of Tertiary sedimentary rocks, western Oregon and Washington, and adjacent continental margin.

U.S. GEOLOGICAL SURVEY, 1974, Oligocene continental slope beneath Juan de Fuca [abstract].

CONTINENTAL MARGIN - STRUCTURES AND TECTONICS

ADAMS, JOHN, 1984, Active deformation of the Pacific Northwest continental margin.

ATWATER, T. M., 1971, Magnetic lineations in the northeast Pacific Ocean--Implications for marine and continental tectonic history [abstract].

ATWATER, T. M., 1973, Studies of sea-floor spreading and plate movements in the Pacific Basin.

ATWATER, T. M.; MENARD, H. W., 1970, Magnetic lineations in the northeast Pacific.

BARNARD, W. D., 1973, Late Pleistocene deformation of Cascadia Basin turbidites along Washington continental margin [abstract].

BORNHOLD, B. D.; BRANDON, M. T.; CLOWES, R. M.; CURRIE, R. G.; DAVIS, E. E.; HUSSONG, D. M.; HYNDMAN, R. D.; RIDDIHOUGH, R. P.; ROGERS, G. C.; YORATH, C. J., 1986, Recent acoustic studies of western Canadian continental margin [abstract].

BOSTROM, R. C., 1968, The ocean ridge system in the northeast Pacific.

BOSTROM, R. C., 1968, Oceanward spreading of the continental crust in the fjord region of northwest America.

CARLSON, R. L., 1976, Cenozoic plate convergence in the vicinity of the Pacific Northwest--A synthesis and assessment of plate tectonics in the northeastern Pacific.*

CARLSON, R. L., 1981, Late Cenozoic rotations of the Juan de Fuca Ridge and the Gorda Rise--A case study.

CARSON, BOBB, 1974, Sediment modification related to subduction--Washington-Oregon continental margin [abstract].

CARSON, BOBB, 1977, Tectonically induced deformation of deep-sea sediments off Washington and northern Oregon--Mechanical consolidation.

CARSON, BOBB; YUAN, J.-W., 1972, Pattern of deep-sea sediment deformation at a compressive continental margin [abstract].

CHRISTENSEN, N. I., 1970, Oceanic crustal composition in the northeast Pacific [abstract].

CHURKIN, MICHAEL, JR., 1974, Paleozoic marginal ocean basin-volcanic arc systems in the Cordilleran foldbelt.

COCHRANE, G. R.; LEWIS, B. T. R., 1984, Comparison of structures in underthrusting and overthrusting lower slope sediments of the Washington-Oregon convergent margin [abstract].

COUCH, R. W., 1969, Gravity and structures of the continental margin off Washington and British Columbia [abstract].

COUCH, R. W., 1969, Gravity and structures of the crust and subcrust in the northeast Pacific Ocean west of Washington and British Columbia.*

COUCH, R. W., 1972, Continental margin structure and tectonism in the Pacific Northwest [abstract].

COUCH, R. W., 1972, Gravity and structure of the continental margin of the northeast Pacific Ocean [abstract].

COUCH, R. W.; CONNARD, GERRY; KIENLE, C. R., 1980, Sediment thicknesses and tectonic lineations of the northern Juan de Fuca plate and Washington continental margin [abstract].

CROWELL, J. C., 1986, Active tectonics along the western continental margin of the conterminous United States.

DEHLINGER, PETER; COUCH, R. W.; MCMANUS, D. A.; GEMPERLE, MICHAEL, 1970, Northeast Pacific structure.

DOTT, R. H., JR., 1969, Circum-Pacific late Cenozoic structural rejuvenation--Implications for sea floor spreading.

DRAKE, E. T., 1981, Robert Hooke and the foundation of geology--A comparison of Steno and Hooke and the Hooke imprint on the Huttonian theory; The tectonic evolution of the Oregon continental margin--Rotation of segment boundaries and possible space-time relationships in the central High Cascades.*

DRUMMOND, K. J.; AND OTHERS, 1981, Plate-tectonic map of the circum-Pacific region, northeast quadrant.

DUNCAN, R. A.; MCELWEE, K. R., COMPILERS, 1984, Cenozoic plate reconstructions.

ELLIS, R. M.; SPENCE, G. D.; CLOWES, R. M.; WALDRON, D. A.; JONES, I. F.; GREEN, A. G.; FORSYTH, D. A.; MAIR, J. A.; BERRY, M. J.; AND OTHERS, 1983, The Vancouver Island seismic project--A CO-CRUST onshore-offshore study of a convergent margin.

FARRAR, E.; DIXON, J. M., 1979, Has the North Pacific spreading center been subduc-

ted beneath Oregon, Washington and British Columbia? [abstract].

FARRAR, E.; DIXON, J. M., 1980, Miocene ridge impingement and the spawning of secondary ridges off Oregon, Washington, and British Columbia.

HENDRICKSON, M. A., 1986, The determination of seismic structure from teleseismic P waveforms on the Washington continental margin.

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

HOWELL, D. G.; ALPHA, T. R.; JOYCE, J. M., 1980, Plate tectonics, physiography, and sedimentation of the northeast Pacific region.

IRVING, E.; ROY, J. L., 1968, Intensite et stabilite d'aimantation des basaltes de l'Oregon et Washington et leurs applications a l'expansion du fond de l'ocean et a d'autres problemes geophysiques.

JOHNSON, S. Y.; NIEM, W. A.; NIEM, A. R.; BRANDON, M. T.; KULM, L. D.; STEWART, R. J., COMPILERS, 1984, Tectonic features, western Oregon and Washington.

KULM, L. D.; FOWLER, G. A., 1974, Cenozoic sedimentary framework of the Gorda-Juan de Fuca Plate and adjacent continental margin --A review.

KULM, L. D.; SCHEIDEGGER, K. F., 1979, Quaternary sedimentation on the tectonically active Oregon continental slope.

LISTER, C. R. B., 1969, Studies of oceanic tectonics utilizing detailed surveying and stratigraphy.

PETER, GEORGE, 1969, Magnetic structural provinces in the northeast Pacific Ocean [abstract].

PITMAN, W. C., III, 1967, Magnetic anomalies in the Pacific and ocean floor spreading.*

PITMAN, W. C., III; HERRON, E.; HEIRTZLER, J. R., 1968, Magnetic anomalies in the Pacific and ocean floor spreading.

RAFF, A. D., 1966, Boundaries of an area of very long magnetic anomalies in the northeast Pacific.

RIDDIHOUGH, R. P., 1978, The Juan de Fuca Plate.

RIDDIHOUGH, R. P., 1979, Gravity and structure of an active margin--British Columbia and Washington.

RITGER, S. D.; CARSON, BOBB; SUESS, ERWIN, 1987, Methane-derived authigenic carbonates formed by subduction-induced pore-water expulsion along the Oregon/Washington margin.

ROGERS, G. C., 1987, Megathrust potential of the Cascadia subduction zone [abstract].

SCHEIDEGGER, K. F., COMPILER, 1984, Thermal evolution of the Juan de Fuca Plate.

SILVER, E. A., 1971, Small plate tectonics in the northeastern Pacific.

SILVER, E. A., 1973, The continental margin off California to Washington--A history of partial coupling between lithospheric plates [abstract].

SILVER, E. A., 1975, Tectonic setting of the continental margin off the western United States [abstract].

SNAVELY, P. D., JR., 1979, Stratigraphic and tectonic framework, Oregon-Washington continental margin [abstract].

SNAVELY, P. D., JR., 1986, Tertiary evolution and petroleum potential of Oregon-Washington continental margin [abstract].

SNAVELY, P. D., JR.; MACLEOD, N. S., 1977, Evolution of the Eocene continental margin of western Oregon and Washington [abstract].

SNAVELY, P. D., JR.; WAGNER, H. C., 1984, Tectonic framework, continental margin of southwestern Washington [abstract].

SOKOLOV, B. A.; NESMEYANOV, D. V.; GAYNANOV, A. G.; SEREGIN, A. M., 1976, Geological structure and petroleum potential of the Pacific segment.

SUESS, ERWIN; MASSOTH, G. J., 1984, Evidence for venting of pore waters from subducted sediments of the Oregon continental margin [abstract].

TABER, J. J., JR., 1983, Crustal structure and seismicity of the Washington continental margin.

TABER, J. J., JR.; LEWIS, B. T. R., 1986, Crustal structure of the Washington continental margin from refraction data.

TOBIN, D. G.; SYKES, L. R., 1968, Seismicity and tectonics of the northeast Pacific Ocean.*

WAGNER, H. C., 1985, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the

continental slope off southwestern Washington.

WAGNER, H. C.; BATATIAN, L. D.; LAMBERT, T. M.; TOMSON, J. H., 1986, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental slope off southwestern Washington between latitudes 46 degrees N. and 48 degrees 30 minutes N. and from the Washington coast to 125 degrees W.

WAHLSTROM, R.; ROGERS, G. C.; ELLIS, R. M., 1987, Seismicity reassessment and earthquake focal mechanisms for the northern Juan de Fuca Ridge system [abstract].

WILSON, J. T., 1965, Transform faults, oceanic ridges, and magnetic anomalies southwest of Vancouver Island.

CONTINENTAL SHELF

see also

ASTORIA CANYON
GRAYS CANYON
JUAN DE FUCA CANYON
QUINAULT CANYON
WILLAPA CANYON

CONTINENTAL SHELF - BASALT

SNAVELY, P. D., JR.; WELLS, R. E., 1984, Tertiary volcanic and intrusive rocks on the Oregon and Washington continental shelf.

CONTINENTAL SHELF - BATHYMETRY

GERIN, MARYBETH, 1977, Bathymetric map of Pacific coast, Vancouver Island to Tillamook Bay.

MCMANUS, D. A., 1964, Major bathymetric features near the coast of Oregon, Washington, and Vancouver Island.

MCMANUS, D. A., 1972, Bottom topography and sediment texture near the Columbia River mouth.

MCMANUS, D. A.; MCGARY, NOEL, 1968, Topography of an intermediate borderland, the continental terrace off Washington [abstract].

VENKATARATHNAM, KOLLA, 1970, Sediments of the continental shelf off northern Washington.

CONTINENTAL SHELF - BIBLIOGRAPHY

KULM, L. D.; PETERSON, C. D.; STRIBLING, M. C., 1986, Inventory of heavy minerals and metals--Southern Washington, Oregon, and northern California continental shelf and coastal region.

LUEPKE, GRETCHEN, 1980, Bibliography of the geology of the Oregon-Washington continental shelf and coastal zone, 1899-1978.

CONTINENTAL SHELF - EARTHQUAKES AND SEISMOLOGY

BOGGS, SAM, JR.; KOMAR, P. D., 1977, Geological oceanography.

PERKINS, D. M.; THENHAUS, P. C.; HANSON, S. L.; ZIONY, J. I.; ALGERMISSEN, S. T., 1980, Probabilistic estimates of maximum seismic horizontal ground motion on rock in the Pacific Northwest and the adjacent outer continental shelf.

SAVAGE, J. C.; LISOWSKI, M.; PRESCOTT, W. H., 1981, Dislocation model for strain accumulation along the Washington coast [abstract].

CONTINENTAL SHELF - GEOMORPHOLOGY

BERG, J. W., JR.; KING, J. M.; CARLSON, P. R., 1966, Seismic reflection studies of buried channels off the Columbia River.

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1984, Sonograph mosaic of the Oregon-Washington EEZ [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1985, Geomorphic features of Oregon-Washington project EEZ-SCAN [abstract].

KACHEL, N. B., 1982, Effects of combined waves and currents on erosion, transport, and stratigraphy on a continental shelf [abstract].

PALMER, L. A., 1967, Marine terraces of California, Oregon, and Washington.*

SNAVELY, P. D., JR.; PEARL, J. E.; LANDER, D. L., 1977, Interim report on petroleum resources potential and geologic hazards in the outer continental shelf--Oregon and Washington Tertiary province; with a section on Resource appraisal estimate, by E. W. Scott.

SNAVELY, P. D., JR.; PEARL, J. E.; LANDER, D. L., 1978, Petroleum resources potential and geologic hazards of the Oregon-Washington outer continental shelf [abstract].

CONTINENTAL SHELF - GEOPHYSICS

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1985, Geomorphic features of Oregon-Washington project EEZ-SCAN [abstract].

MCCLAIN, K. J., 1981, A geophysical study of accretionary processes on the Washington continental margin.*

WISSMANN, GERD, 1971, Marine geophysical studies offshore Cape Flattery, Washington, and the implications for regional tectonics.

CONTINENTAL SHELF - GEOPHYSICS - MAGNETIC SURVEYS

BERG, J. W., JR.; EMILIA, D. A.; BALES, W. E., 1968, Magnetic studies off the Pacific Northwest coast [abstract].

EMILIA, D. A.; BERG, J. W., JR.; BALES, W. E., 1966, A magnetic survey off the Pacific Northwest coast.

SNAVELY, P. D., JR.; WAGNER, H. C., 1982, Geophysical data collected on the southern Washington continental shelf along line 12, USGS R/V S.P. Lee cruise 3-76.

U.S. GEOLOGICAL SURVEY, 1980, Aeromagnetic map of the north central Washington coast.

CONTINENTAL SHELF - GEOPHYSICS - SEISMIC SURVEYS

BENNETT, L. C., JR.; ECHOLS, R. J., 1971, Shallow seismic stratigraphy on the continental shelf of Washington [abstract].

BENNETT, L. C., JR.; GRIM, M. S., 1968, Investigation of the continental shelf structure off the coast of Washington [abstract].

BERG, J. W., JR.; KING, J. M.; CARLSON, P. R., 1966, Seismic reflection studies of buried channels off the Columbia River.

GRIM, M. S.; BENNETT, L. C., JR., 1968, Geophysical investigations of the continental shelf off the coast of Washington--A preliminary report [abstract].

GRIM, M. S.; BENNETT, L. C., JR., 1969, Shallow sub-bottom geology of the Washington shelf off Grays Harbor [abstract].

GRIM, M. S.; BENNETT, L. C., JR., 1969, Shallow seismic profiling of the continental shelf off Grays Harbor, Washington.

GRIM, M. S.; BENNETT, L. C., JR.; HARMAN, R. A., 1968, Shallow seismic profiling of the continental shelf off Grays Harbor, Washington [abstract].

NITTROUER, C. A.; STERNBERG, R. W.; HOLMES, M. L., 1977, Shallow stratigraphy and Holocene sedimentation on the Washington continental shelf [abstract].

SAVAGE, J. C.; LISOWSKI, M.; PRESCOTT, W. H., 1981, Dislocation model for strain accumulation along the Washington coast [abstract].

WISSMANN, GERD, 1970, Shallow sub-bottom geology of the Washington shelf south of La Perouse Bank [abstract].

CONTINENTAL SHELF - MAPS - BATHYMETRIC

GERIN, MARYBETH, 1977, Bathymetric map of Pacific coast, Vancouver Island to Tillamook Bay.

CONTINENTAL SHELF - MINERAL RESOURCES

ANONYMOUS, 1986, America's new frontier.

BALLARD, R. D.; BISCHOFF, J. L., PANEL CHAIRMEN, 1984, Assessment and scientific understanding of hard mineral resources in the EEZ.

BOGGS, SAM, JR., 1977, Geological oceanography considerations.

CLAGUE, D. A.; BISCHOFF, J. L.; HOWELL, D. A., 1984, Nonfuel mineral resources of the Pacific Exclusive Economic Zone.

HARRIS, W. M.; MCFARLANE, B. E.; BEASLEY, DAVID, COMPILERS, 1981, Outer continental shelf statistics--Oil, gas, sulphur, salt, leasing, drilling, production, income, 1953 through calendar year 1980.

HEALY, M. L.; CRECELIUS, E. A., 1977, Chemical oceanography.

KULM, L. D.; PETERSON, C. D.; STRIBLING, M. C., 1986, Inventory of heavy minerals and metals--Southern Washington, Oregon, and northern California continental shelf and coastal region.

MASSOGLIA, M. F., COMPILER, 1977, Conference/workshop proceedings--Recommendations for baseline research in Washington and Oregon relative to offshore resource development.

MCKELVEY, V. E.; WANG, F. F. H., 1969, World subsea mineral resources.

MICHAEL, L. H., 1977, Chemical oceanography considerations.

MOORE, G. W.; LUKEN, M. D., 1979, Offshore sand and gravel resources of the Pacific Northwest.

NATIONAL ADVISORY COMMITTEE ON OCEANS AND ATMOSPHERE, 1983, Marine minerals--An alternative mineral supply; National ocean goals and objectives for the 1980's.

NATIONAL RESEARCH COUNCIL PANEL ON ASSESSMENT OF FATES AND EFFECTS OF DRILLING FLUIDS AND CUTTINGS IN THE MARINE ENVIRONMENT, 1983, Drilling discharges in the marine environment.

PETERSON, C. D.; BINNEY, S. E., 1987, Fingerprinting economic heavy minerals and

sources of marine placers in the Pacific Northwest by instrumental neutron activation analysis [abstract].

PHILLIPS, R. L., 1979, Heavy minerals and bedrock minerals on the continental shelf off Washington, Oregon and California.

CONTINENTAL SHELF - MINERAL RESOURCES - PETROLEUM EXPLORATION

BENTON, J.; MCDOWELL, T.; SHEARER, C., 1979, Outer continental shelf oil and gas information program; Pacific index.

BOGGS, SAM, JR.; KOMAR, P. D., 1977, Geological oceanography.

DELLAGIARINO, GEORGE, 1986, United States outer continental shelf basins--Maps and descriptions.

MCCULLOCH, D. S.; SNAVELY, P. D., JR., 1978, Oil and gas resources of the outer continental shelf [abstract].

RAU, W. W.; WAGNER, H. C., 1974, Oil and gas in Washington.

SNAVELY, P. D., JR.; PEARL, J. E., 1978, Potential petroleum reservoirs within Tertiary melange, coastal Olympic Peninsula and adjacent OCS [abstract].

SNAVELY, P. D., JR.; PEARL, J. E.; LANDER, D. L., 1977, Interim report on petroleum resources potential and geologic hazards in the outer continental shelf--Oregon and Washington Tertiary province; with a section on Resource appraisal estimate, by E. W. Scott.

SNAVELY, P. D., JR.; PEARL, J. E.; LANDER, D. L., 1978, Petroleum resources potential and geologic hazards of the Oregon-Washington outer continental shelf [abstract].

WEBSTER, F. L., 1985, Pacific OCS lease sale, October 1, 1964, Oregon and Washington.

ZIEGLAR, D. L.; CASSELL, J. K., 1978, A synthesis of OCS well information, offshore central and northern California, Oregon, and Washington.*

CONTINENTAL SHELF - MINING LAW

U.S. GEOLOGICAL SURVEY, 1981, Compilation of laws related to mineral resource activities on the outer continental shelf.

U.S. GEOLOGICAL SURVEY, 1981, Compilation of regulations related to mineral resource activities on the outer continental shelf.

CONTINENTAL SHELF - PALEONTOLOGY

DUNCAN, J. R.; FOWLER, G. A.; KULM, L. D., 1970, Planktonic foraminiferan-radiolarian ratios and Holocene-late Pleistocene deep sea stratigraphy off Oregon.

DURHAM, J. W., 1977, Pacific coast Cenozoic middle and high latitude Echinoidea [abstract].

ECHOLS, R. J.; FOWLER, G. A., 1973, Agglutinated tintinnid loricae from some Recent and late Pleistocene shelf sediments.

FLORER, L. E., 1973, Pollen analysis of marine sediments off the Washington coast.

FLORER, L. E., 1974, Pollen analyses of marine cores off the Washington coast [abstract].*

FLORER-HEUSSER, L. E., 1975, Late Cenozoic marine palynology of northeastern Pacific Ocean cores.

CONTINENTAL SHELF - SEDIMENTS

BAKER, E. T.; HICKEY, B. M., 1986, Contemporary sedimentation processes in and around an active west coast submarine canyon.

BOGGS, SAM, JR., 1977, Geological oceanography considerations.

BOGGS, SAM, JR.; KOMAR, P. D., 1977, Geological oceanography.

CARLSON, P. R.; NELSON, C. H., 1969, Sediments and sedimentary structures of the Astoria submarine canyon-fan systems, northeast Pacific.

CARSON, BOBB; BAKER, E. T.; HICKEY, B. M.; NITTROUER, C. A.; DEMASTER, D. J.; THORBJARNARSON, K. W.; SNYDER, G. W., 1986, Modern sediment dispersal and accumulation in Quinault submarine canyon--A summary.

CREAGER, J. S.; STERNBERG, R. W., 1972, Some specific problems in understanding bottom sediment distribution and dispersal on the continental shelf [with discussion].

ECHOLS, R. J.; FOWLER, G. A., 1973, Agglutinated tintinnid loricae from some Recent and late Pleistocene shelf sediments.

FLORER, L. E., 1973, Pollen analysis of marine sediments off the Washington coast.

FLORER, L. E., 1974, Pollen analyses of marine cores off the Washington coast [abstract].*

FLORER-HEUSSER, L. E., 1975, Late Cenozoic marine palynology of northeastern Pacific Ocean cores.

GROSS, M. G.; MCMANUS, D. A.; LING, H.-Y., 1967, Continental shelf sediment, northwest United States.

HERZER, R. H.; BORNHOLD, B. D., 1982, Glaciation and post-glacial history of the continental shelf off southwestern Vancouver Island, British Columbia.

KACHEL, N. B., 1982, Effects of combined waves and currents on erosion, transport, and stratigraphy on a continental shelf [abstract].

KELLEY, J. C.; MCMANUS, D. A., 1969, Optimizing sediment sampling plans.

KELLEY, J. C.; MCMANUS, D. A., 1970, Hierarchial analysis of variance of shelf sediment texture.*

MASSOGLIA, M. F., COMPILER, 1977, Conference/workshop proceedings--Recommendations for baseline research in Washington and Oregon relative to offshore resource development.

MCMANUS, D. A., 1965, Bottom sediment types in Cascadia Basin, northeast Pacific Ocean [abstract].

MCMANUS, D. A., 1972, Bottom topography and sediment texture near the Columbia River mouth.

NELSON, C. H.; NILSEN, T. H., 1974, Depositional trends of modern and ancient deep-sea fans.

NELSON, C. H.; NORMARK, W. R.; BOUMA, A. H.; CARLSON, P. R., 1978, Thin-bedded turbidites in modern submarine canyons and fans.

NITTROUER, C. A.; SMETHIE, W. M., JR.; SELF, R. F. L.; STERNBERG, R. W.; JUMARS, P. A., 1978, Observations of sediment mixing on the Washington shelf [abstract].

NITTROUER, C. A.; STERNBERG, R. W., 1978, Shallow stratigraphy and Holocene sedimentation on the Washington continental shelf [abstract].

NITTROUER, C. A.; STERNBERG, R. W., 1980, The formation of sedimentary strata in a continental shelf environment [abstract].

NITTROUER, C. A.; STERNBERG, R. W.; BORGELD, J. C., 1977, Sedimentary structures and their relationship to sedimentary processes on the Washington continental shelf [abstract].

NITTROUER, C. A.; STERNBERG, R. W.; CARPENTER, ROY; BENNETT, J. T., 1979, The use of Pb-210 geochronology as a sedimentological tool--Application to the Washington continental shelf.

NITTROUER, C. A.; STERNBERG, R. W.; HOLMES, M. L., 1977, Shallow stratigraphy and Holocene sedimentation on the Washington continental shelf [abstract].

ROYSE, C. F., JR., 1964, Sediments of Willapa submarine canyon.*

SCHOLL, D. W.; MARLOW, M. S., 1974, Sedimentary sequence in modern Pacific trenches and the deformed circum-Pacific eugeosyncline.

STERNBERG, R. W.; CREAGER, J. S.; JOHNSON, J.; GLASSLEY, W. E., 1979, Stability of dredged material deposited seaward of the Columbia River mouth.

VENKATARATHNAM, KOLLA, 1970, Sediments of the continental shelf off northern Washington.

VENKATARATHNAM, KOLLA; MCMANUS, D. A., 1969, Sediments of inner continental shelf off northern Washington coast [abstract].

VENKATARATHNAM, KOLLA; MCMANUS, D. A., 1973, Origin and distribution of sands and gravels on the northern continental shelf off Washington.

CONTINENTAL SHELF - SEDIMENTS - GEOCHEMISTRY

CUTSHALL, N. H.; LARSEN, I. L.; OLSEN, C. R.; NITTROUER, C. A.; DEMASTER, D. J., 1983, Columbia River sediment in Quinault Canyon--Implications for deep ocean waste disposal [abstract].

CUTSHALL, N. H.; RENFRO, W. C.; EVANS, D. W.; JOHNSON, V. G., 1971, Zinc-65 in Oregon -Washington continental shelf sediments.

ERTEL, J. R.; HEDGES, J. I., 1985, Sources of sedimentary humic substances--Vascular plant debris.

HARMON, R. A., 1972, The distribution of microbiogenic sediment near the mouth of the Columbia River.

HEALY, M. L.; CRECELIUS, E. A., 1977, Chemical oceanography.

HEDGES, J. I., 1977, Lignin compounds in Holocene sediments from the Washington continental shelf [abstract].

HEDGES, J. I.; VAN GEEN, ALEXANDER, 1982, A comparison of lignin and stable carbon isotope compositions in Quaternary marine sediments.

NITTROUER, C. A.; DEMASTER, D. J.; MCKEE, B. A.; CUTSHALL, N. H.; LARSEN, I. L., 1983, The effect of sediment mixing on Pb-210 accumulation rates for the Washington continental shelf.

NITTROUER, C. A.; STERNBERG, R. W.; CARPENTER, ROY, 1976, Trends in modern sediment accumulation on the Washington continental shelf as delineated by Pb-210 studies [abstract].

PHILLIPS, R. L., 1979, Heavy minerals and bedrock minerals on the continental shelf off Washington, Oregon and California.

PRAHL, F. G., 1980, Anthracene distributions in sediment cores from the Washington continental shelf [abstract].

PRAHL, F. G.; CARPENTER, ROY, 1983, Polycyclic aromatic hydrocarbon (PAH)-phase associations in Washington coastal sediment.

PRAHL, F. G.; CARPENTER, ROY, 1984, Hydrocarbons in Washington coastal sediments.

SMETHIE, W. M., JR.; NITTROUER, C. A., 1980, The use of radon-222 as a tracer of sediment irrigation and mixing on the Washington continental shelf [abstract].

SMETHIE, W. M., JR.; NITTROUER, C. A.; SELF, R. F. L., 1981, The use of Radon-222 as a tracer of sediment irrigation and mixing on the Washington continental shelf.

VENKATARATHNAM, KOLLA, 1969, Size distribution and mineral composition of the sediments of the inner continental shelf off northern Washington.

WHITE, S. M., 1968, Distribution of glauconite-boron association in continental-shelf sediments [abstract].

WHITE, S. M., 1968, The mineralogy and geochemistry of the sediments on the continental shelf off the Washington-Oregon coast.*

WHITE, S. M., 1970, Mineralogy and geochemistry of continental shelf sediments of Washington-Oregon coast.

CONTINENTAL SHELF - SEDIMENTS - GEOPHYSICS

KELLEY, J. C.; MCMANUS, D. A., 1968, Evaluation of granulometric parameters for the recognition of sediment variability [abstract].

KELLEY, J. C.; MCMANUS, D. A., 1969, Separation of local variability from noise in sediment textural variables [abstract].

NITTROUER, C. A., 1978, The process of detrital sediment accumulation in a continental shelf environment--An examination of the Washington shelf.*

SNYDER, G. W.; CARSON, BOBB, 1982, Dispersal and accumulation of modern sediment in Quinault submarine canyon--Particle size, composition, and areal/temporal variability [abstract].

VENKATARATHNAM, KOLLA, 1969, Size distribution and mineral composition of the sediments of the inner continental shelf off northern Washington.

WHITE, S. M., 1968, The mineralogy and geochemistry of the sediments on the continental shelf off the Washington-Oregon coast.*

CONTINENTAL SHELF - SEDIMENTS - MATHEMATICAL MODELS

KACHEL, N. B., 1972, Development of a model of sediment movement on the Washington continental shelf [abstract].

KACHEL, N. B., 1980, A time dependent model of sediment transport and strata formation on a continental shelf.*

KACHEL, N. B., 1982, Sediment transport, deposition, and strata formation on a continental shelf [abstract].

KACHEL, N. B.; KELLEY, J. C., 1972, Computer simulation of sedimentation off the Washington coast [abstract].

CONTINENTAL SHELF - SEDIMENTS - RADIOACTIVITY

BEASLEY, T. M.; CARPENTER, ROY; JENNINGS, C. D., 1982, Plutonium, 241Am and 137Cs ratios, inventories and vertical profiles in Washington and Oregon continental shelf sediments.

CUTSHALL, N. H., 1967, Chromium-51 in the Columbia River and adjacent Pacific Ocean.*

CUTSHALL, N. H.; LARSEN, I. L.; OLSEN, C. R.; NITTROUER, C. A.; DEMASTER, D. J., 1986, Columbia River sediment in Quinault Canyon, Washington--Evidence from artificial radionuclides.

CUTSHALL, N. H.; RENFRO, W. C.; EVANS, D. W.; JOHNSON, V. G., 1971, Zinc-65 in Oregon -Washington continental shelf sediments.

FORSTER, W. O., 1972, Radionuclide distribution in Columbia River and adjacent Pacific shelf sediments.

GROSS, M. G., 1963, Radioactivity of marine sediments near the Columbia River in 1962 [abstract].

GROSS, M. G., 1965, Distribution of radioactive Columbia River sediment on the Washington-Oregon continental shelf [abstract].

GROSS, M. G., 1966, Distribution of radioactive marine sediment derived from the Columbia River.

GROSS, M. G., 1968, Distribution and movement of radioactive Columbia River sediment on the continental shelf of Washington and Oregon [abstract].

GROSS, M. G., 1972, Sediment-associated radionuclides from the Columbia River.

MORSE, B.-A.; GROSS, M. G.; BARNES, C. A., 1968, Movement of seabed drifters near the Columbia River.*

OSTERBERG, C. L.; KULM, L. D.; BYRNE, J. V., 1963, Gamma emitters in marine sediments near the Columbia River.

SEYMOUR, A. H.; LEWIS, G. B., 1964, Radionuclides of Columbia River origin in marine organisms, sediments, and water collected from the coastal and offshore waters of Washington and Oregon, 1961-63.

SMETHIE, W. M., JR.; NITTROUER, C. A., 1980, The use of radon-222 as a tracer of sediment irrigation and mixing on the Washington continental shelf [abstract].

SMETHIE, W. M., JR.; NITTROUER, C. A.; SELF, R. F. L., 1981, The use of Radon-222 as a tracer of sediment irrigation and mixing on the Washington continental shelf.

TWISS, E. S.; CARPENTER, ROY; SCHELL, W. R., 1973, Polonium-210 in sediments off the Washington coast [abstract].

CONTINENTAL SHELF - SEDIMENTS - TRANSPORT

CUTSHALL, N. H.; LARSEN, I. L.; OLSEN, C. R.; NITTROUER, C. A.; DEMASTER, D. J., 1986, Columbia River sediment in Quinault Canyon, Washington--Evidence from artificial radionuclides.

GROSS, M. G.; NELSON, J. L., 1966, Sediment movement on the continental shelf near Washington and Oregon.

HEALY, M. J.; CARSON, BOBB, 1983, Dispersal rates of Mount St. Helens ash across the Washington continental shelf--1980-1981 [abstract].

KACHEL, N. B., 1972, Development of a model of sediment movement on the Washington continental shelf [abstract].

KACHEL, N. B., 1980, A time dependent model of sediment transport and strata formation on a continental shelf.*

KACHEL, N. B., 1982, Effects of combined waves and currents on erosion, transport, and stratigraphy on a continental shelf [abstract].

KACHEL, N. B., 1982, Sediment transport, deposition, and strata formation on a continental shelf [abstract].

MORSE, B.-A.; GROSS, M. G.; BARNES, C. A., 1968, Movement of seabed drifters near the Columbia River.*

NITTROUER, C. A.; STERNBERG, R. W., 1977, The new continental shelf sedimentology--A multi-systems approach to the investigation of allochthonous sedimentation [abstract].

NITTROUER, C. A.; STERNBERG, R. W., 1981, The formation of sedimentary strata in an allochthonous shelf environment--The Washington continental shelf.

SMITH, J. D.; HOPKINS, T. S., 1972, Sediment transport on the continental shelf off of Washington and Oregon in light of recent current measurements.*

STERNBERG, R. W.; LARSEN, L. H., 1975, Threshold of sediment movement by open ocean waves--Observations.

STERNBERG, R. W.; LARSEN, L. H., 1976, Frequency of sediment movement on the Washington continental shelf--A note.

STERNBERG, R. W.; MCMANUS, D. A., 1972, Implications of sediment dispersal from long-term, bottom-current measurements on the continental shelf of Washington.

CONTINENTAL SHELF - SEDIMENTS - VOLCANIC ASH

HEALY, M. J.; CARSON, BOBB, 1983, Dispersal rates of Mount St. Helens ash across the Washington continental shelf--1980-1981 [abstract].

CONTINENTAL SHELF - STRATIGRAPHY

BENNETT, L. C., JR.; ECHOLS, R. J., 1971, Shallow seismic stratigraphy on the continental shelf of Washington [abstract].

COLE, M. R.; ARMENTROUT, J. M., 1979, Neogene paleogeography of the western United States.

DUNCAN, J. R.; FOWLER, G. A.; KULM, L. D., 1970, Planktonic foraminiferan-radiolarian ratios and Holocene-late Pleistocene deep sea stratigraphy off Oregon.

ECHOLS, R. J.; FOWLER, G. A., 1973, Agglutinated tintinnid loricae from some Recent and late Pleistocene shelf sediments.

FLORER, L. E., 1974, Pollen analyses of marine cores off the Washington coast [abstract].*

NITTROUER, C. A.; STERNBERG, R. W., 1978, Shallow stratigraphy and Holocene sedimentation on the Washington continental shelf [abstract].

NITTROUER, C. A.; STERNBERG, R. W., 1980, The formation of sedimentary strata in a continental shelf environment [abstract].

NITTROUER, C. A.; STERNBERG, R. W.; HOLMES, M. L., 1977, Shallow stratigraphy and Holocene sedimentation on the Washington continental shelf [abstract].

CONTINENTAL SHELF - STRATIGRAPHY

PETERSON, C. P.; LOUBERE, P. W.; KULM, L. D.; PEPER, J. S., COMPILERS, 1984, Stratigraphy of continental shelf and coastal region.

CONTINENTAL SHELF - STRUCTURES AND TECTONICS

BENNETT, L. C., JR., 1969, Structural studies of the continental shelf off Washington [abstract].

BENNETT, L. C., JR.; GRIM, M. S., 1968, Investigation of the continental shelf structure off the coast of Washington [abstract].

BOGGS, SAM, JR.; KOMAR, P. D., 1977, Geological oceanography.

HEY, R. N.; WILSON, D. S., 1982, Propagating rift explanation for the tectonic evolution of the northeast Pacific--The pseudomovie.

MCCLAIN, K. J., 1981, A geophysical study of accretionary processes on the Washington continental margin.*

SAVAGE, J. C.; LISOWSKI, M.; PRESCOTT, W. H., 1981, Dislocation model for strain accumulation along the Washington coast [abstract].

SNAVELY, P. D., JR.; MACLEOD, N. S.; PEARL, J. E., 1976, Tectonic framework of the Strait of Juan de Fuca and the Pacific continental shelf [abstract].

SNAVELY, P. D., JR.; PEARL, J. E., 1978, Potential petroleum reservoirs within Tertiary melange, coastal Olympic Peninsula and adjacent OCS [abstract].

WISSMANN, GERD, 1971, Marine geophysical studies offshore Cape Flattery, Washington, and the implications for regional tectonics.

CONTINENTAL SLOPE

see also

ASTORIA CHANNEL
WILLAPA CHANNEL

CONTINENTAL SLOPE - GEOMORPHOLOGY

CARSON, BOBB; MCMANUS, D. A., 1968, Juan de Fuca submarine canyon--A study of continental slope development [abstract].

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

NELSON, C. H.; CARLSON, P. R.; BYRNE, J. V.; ALPHA, T. R., 1970, Development of the Astoria Canyon-fan physiography and comparison with similar systems.

CONTINENTAL SLOPE - GEOPHYSICS

BARNARD, W. D., 1978, The Washington continental slope--Quaternary tectonics and sedimentation.

BARR, S. M., 1972, Geology of the northern end of Juan de Fuca Ridge and adjacent continental slope.*

DEHLINGER, PETER; COUCH, R. W.; GEMPERLE, MICHAEL; RINEHART, W. A., 1966, Gravity investigations in the north Pacific Ocean [abstract].

EEZ-SCAN 84 SCIENTIFIC STAFF, 1985, MV Farnella cruises 1/84 to 4/84, 26 April to 15 August 1984 GLORIA studies of the Exclusive Economic Zone off the western United States between 30 degrees 30 minutes and 48 degrees 30 minutes N..

EMILIA, D. A.; BERG, J. W., JR.; BALES, W. E., 1968, Magnetic anomalies off the northwest coast of the United States.

MCCLAIN, K. J.; TABER, J. J., JR.; CROSSON, R. S.; LEWIS, B. T. R., 1981, Geophysical structure of the Washington active margin [abstract].

VINE, F. J., 1968, Paleomagnetic evidence for the northward movement of the North Pacific Basin during the past 100 m.y. [abstract].

CONTINENTAL SLOPE - PALEONTOLOGY

BARNARD, W. D., 1972, Late Pleistocene-Holocene biostratigraphy on the Washington continental slope [abstract].

HEUSSER, C. J.; FLORER, L. E., 1973, Correlation of marine and continental Quaternary pollen records from the northeast Pacific and western Washington.

CONTINENTAL SLOPE - SEDIMENTS

BAKER, E. T.; HICKEY, B. M., 1986, Contemporary sedimentation processes in and around an active west coast submarine canyon.

BARNARD, W. D., 1973, Late Cenozoic sedimentation on the Washington continental slope.*

BARNARD, W. D., 1978, The Washington continental slope--Quaternary tectonics and sedimentation.

BERGLUND, P. L.; CARSON, BOBB, 1978, Development of spaced cleavage in deep-sea mudstone [abstract].

CARSON, BOBB, 1972, Selective turbidite deposition and dispersal with waning turbidity current activity [abstract].

CARSON, BOBB, 1974, Tectonically induced consolidation of deep-sea sediments at a subducting continental margin [abstract].

CARSON, BOBB; YUAN, J.-W.; MYERS, P. B., JR.; BARNARD, W. D., 1974, Initial deep-sea sediment deformation at the base of the Washington continental slope--A response to subduction.

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

KRISSEK, L. A.; SCHEIDEGGER, K. F., 1980, Composition, sources, and dispersal of hemipelagic sediment on the Oregon continental margin [abstract].

ROYSE, C. F., JR., 1967, Mazama ash from the continental slope off Washington.

SCHWELLER, W. J.; KULM, L. D., 1978, Depositional patterns and channelized sedimentation in active eastern Pacific trenches.

CONTINENTAL SLOPE - SEDIMENTS - GEOCHEMISTRY

CARPENTER, ROY; BEASLEY, T. M., 1985, Plutonium, 241Am, 137Cs and 210Pb activities in continental slope sediments off Washington [abstract].

CARPENTER, ROY; BENNETT, J. T.; PETERSON, M. L., 1981, 210Pb activities in and fluxes to sediments of the Washington continental slope and shelf.

CARPENTER, ROY; PETERSON, M. L.; BENNETT, J. T., 1982, 210Pb-derived sediment accumulation and mixing rates for the Washington continental slope.

CARSON, BOBB, 1975, Carbonate dissolution in "offscraped" deep-sea sediments--An integral part of the subduction process? [abstract].

CARSON, BOBB; RITGER, S. D.; SUESS, ERWIN, 1984, Precipitation of carbonate crust associated with subduction-induced porewater expulsion--Washington-Oregon continental slope [abstract].

GROSS, M. G.; CAREY, A. G., JR.; FOWLER, G. A.; KULM, L. D., 1972, Distribution of organic carbon in surface sediments, northeast Pacific Ocean.

KRISSEK, L. A., 1982, Sources, dispersal, and contributions of fine-grained terrigenous sediments on the Oregon and Washington continental slope.*

KRISSEK, L. A.; SCHEIDEGGER, K. F., 1982, Multiple sediment sources and fine silt depositional patterns on the Oregon-Washington continental slope [abstract].

OLMSTEAD, D. L., 1972, Clay mineralogy of the Washington continental slope.

PRAHL, F. G.; CARPENTER, ROY, 1984, Hydrocarbons in Washington coastal sediments.

RITGER, S. D., 1985, Methane-derived authigenic carbonates formed by subduction-induced pore water explusion along the Oregon/Washington margin.

SCAMMAN, R. L., 1981, Diagenetic carbonate cementation of clastic sediments near the sediment-water interface on the lower continental slope off Washington and northern Oregon.

CONTINENTAL SLOPE - SEDIMENTS - GEOPHYSICS

KRISSEK, L. A., 1982, Sources, dispersal, and contributions of fine-grained terrigenous sediments on the Oregon and Washington continental slope.*

SCAMMAN, R. L.; CARSON, BOBB, 1981, Secondary carbonate on the Washington-Oregon lower continental slope--Precipitation related to subduction? [abstract].

SNYDER, G. W.; CARSON, BOBB, 1986, Bottom and suspended particle sizes--Implications for modern sediment transport in Quinault submarine canyon.

CONTINENTAL SLOPE - SEDIMENTS - RADIOACTIVITY

CARPENTER, ROY; BEASLEY, T. M., 1985, Plutonium, 241Am, 137Cs and 210Pb activities in continental slope sediments off Washington [abstract].

CONTINENTAL SLOPE - SEDIMENTS - TRANSPORT

BAKER, E. T., 1983, Present-day sedimentation patterns in Quinault submarine canyon, Washington continental slope [abstract].

CARSON, BOBB; BAKER, E. T., 1983, Processes of offshore sediment dispersal around a submarine canyon [abstract].

CARSON, BOBB; BAKER, E. T.; NITTROUER, C. A.; DEMASTER, D. J., 1982, Modern sediment transport and accumulation in Quinault submarine canyon, Washington continental slope [abstract].

KRISSEK, L. A., 1982, Sources, dispersal, and contributions of fine-grained terrige-

nous sediments on the Oregon and Washington continental slope.*

KRISSEK, L. A., 1984, Continental source area contributions to fine-grained sediments on the Oregon and Washington continental slope.

KRISSEK, L. A.; SCHEIDEGGER, K. F., 1981, Sources and dispersal of terrigenous sediments on the Oregon-Washington continental slope [abstract].

KRISSEK, L. A.; SCHEIDEGGER, K. F., 1982, Multiple sediment sources and fine silt depositional patterns on the Oregon-Washington continental slope [abstract].

SNYDER, G. W.; CARSON, BOBB, 1986, Bottom and suspended particle sizes--Implications for modern sediment transport in Quinault submarine canyon.

CONTINENTAL SLOPE - STRATIGRAPHY

BARNARD, W. D., 1972, Late Pleistocene-Holocene biostratigraphy on the Washington continental slope [abstract].

BARNARD, W. D., 1978, The Washington continental slope--Quaternary tectonics and sedimentation.

HEUSSER, C. J.; FLORER, L. E., 1973, Correlation of marine and continental Quaternary pollen records from the northeast Pacific and western Washington.

CONTINENTAL SLOPE - STRUCTURES AND TECTONICS

BARNARD, W. D., 1974, Westward progressing Pleistocene deformation of the lower continental slope of the Washington coast [abstract].

BARNARD, W. D., 1978, The Washington continental slope--Quaternary tectonics and sedimentation.

BARR, S. M., 1972, Geology of the northern end of Juan de Fuca Ridge and adjacent continental slope.*

BERGLUND, P. L.; CARSON, BOBB, 1978, Development of spaced cleavage in deep-sea mudstone [abstract].

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

MCCLAIN, K. J.; TABER, J. J., JR.; CROSSON, R. S.; LEWIS, B. T. R., 1981, Geophysical structure of the Washington active margin [abstract].

SCAMMAN, R. L.; CARSON, BOBB, 1981, Secondary carbonate on the Washington-Oregon lower continental slope--Precipitation related to subduction? [abstract].

SCHWELLER, W. J.; KULM, L. D., 1978, Depositional patterns and channelized sedimentation in active eastern Pacific trenches.

SILVER, E. A., 1972, Pleistocene tectonic accretion of the continental slope off Washington.

SILVER, E. A.; BARNARD, W. D., 1971, Pleistocene tectonics of the Washington continental slope [abstract].

VINE, F. J., 1968, Paleomagnetic evidence for the northward movement of the North Pacific Basin during the past 100 m.y. [abstract].

CONTINENTAL SLOPE - SUBDUCTION

CARSON, BOBB, 1974, Tectonically induced consolidation of deep-sea sediments at a subducting continental margin [abstract].

CARSON, BOBB, 1975, Carbonate dissolution in "offscraped" deep-sea sediments--An integral part of the subduction process? [abstract].

CARSON, BOBB; RITGER, S. D.; SUESS, ERWIN, 1984, Precipitation of carbonate crust associated with subduction-induced porewater expulsion--Washington-Oregon continental slope [abstract].

CARSON, BOBB; YUAN, J.-W.; MYERS, P. B., JR.; BARNARD, W. D., 1974, Initial deep-sea sediment deformation at the base of the Washington continental slope--A response to subduction.

COWAN, D. S., 1981, Structural styles in Mesozoic melanges along the Pacific margin of North American and their relation to subduction tectonics [abstract].

COPPER

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

JONES, C. J.; MURRAY, J. W., 1984, Nickel, cadmium, and copper in the northeast Pacific off the coast of Washington.

LASMANIS, RAYMOND, 1983, Offshore metal deposits--Washington and Oregon.

CRETACEOUS

WELTON, B. J., 1980, Late Cretaceous and Cenozoic Squalomorphii of the northeast Pacific Ocean [abstract].

CROSS SECTIONS

NIEM, A. R.; NIEM, W. A.; JOHNSON, S. Y.; BRANDON, M. T.; STEWART, R. J., 1984, Legend for geology and cross sections.

SNAVELY, P. D., JR.; WAGNER, H. C., 1981, Geologic cross section across the continental margin off Cape Flattery, Washington, and Vancouver Island, British Columbia.

SNAVELY, P. D., JR.; WAGNER, H. C., 1982, Geologic cross section across the continental margin of southwestern Washington.

DIATOMS

NAYUDU, Y. R.; ENBYSK, B. J., 1964, Biolithology of northeast Pacific surface sediments.

DREDGED MATERIALS

STERNBERG, R. W.; CREAGER, J. S.; GLASSLEY, W. E.; JOHNSON, J., 1977, Stability of dredged material deposited at ocean dumping sites seaward of Columbia River mouth [abstract]

STERNBERG, R. W.; CREAGER, J. S.; JOHNSON, J.; GLASSLEY, W. E., 1979, Stability of dredged material deposited seaward of the Columbia River mouth.

EARTHQUAKES AND SEISMOLOGY

see also subdivision EARTHQUAKES AND SEISMOLOGY under specific geographic areas, e. g., CONTINENTAL MARGIN - EARTHQUAKES AND SEISMOLOGY

COUCH, R. W.; VICTOR, LINDA; KEELING, KENNETH, 1974, Coastal and offshore earthquakes of the Pacific Northwest between 39 degrees and 49 degrees 10 minutes N. latitude and 123 degrees and 131 degrees W. longitude.

EARTHQUAKES AND SEISMOLOGY - CONTINENTAL MARGIN

ADAMS, JOHN, 1984, Active deformation of the Pacific Northwest continental margin.

BOGGS, SAM, JR.; KOMAR, P. D., 1977, Geological oceanography.

CROSSON, R. S., 1986, Where is the subducting slab beneath the Pacific Northwest? [abstract].

CROSSON, R. S.; CROSSON, E. L., 1986, Preliminary analysis of Juan de Fuca plate seismicity using the Washington Regional Seismograph Network [abstract].

KELLY, S. M.; CROSSON, R. S., COMPILERS, 1984, Historical seismicity 1841-1979.

PERKINS, D. M.; THENHAUS, P. C.; HANSON, S. L.; ZIONY, J. I.; ALGERMISSEN, S. T., 1980, Probabilistic estimates of maximum seismic horizontal ground motion on rock in the Pacific Northwest and the adjacent outer continental shelf.

ROGERS, G. C., 1987, Megathrust potential of the Cascadia subduction zone [abstract].

SAVAGE, J. C.; LISOWSKI, M.; PRESCOTT, W. H., 1981, Dislocation model for strain accumulation along the Washington coast [abstract].

TABER, J. J., JR., 1983, Crustal structure and seismicity of the Washington continental margin.

TOBIN, D. G.; SYKES, L. R., 1968, Seismicity and tectonics of the northeast Pacific Ocean.*

WAHLSTROM, R.; ROGERS, G. C.; ELLIS, R. M., 1987, Seismicity reassessment and earthquake focal mechanisms for the northern Juan de Fuca Ridge system [abstract].

EARTHQUAKES AND SEISMOLOGY - JUAN DE FUCA PLATE

ADAMS, JOHN, 1984, Active deformation of the Pacific Northwest continental margin.

CROSSON, R. S., 1986, Earthquake hazard investigations in the Pacific Northwest.

CROSSON, R. S., 1986, Where is the subducting slab beneath the Pacific Northwest? [abstract].

CROSSON, R. S.; CROSSON, E. L., 1986, Preliminary analysis of Juan de Fuca plate seismicity using the Washington Regional Seismograph Network [abstract].

HEATON, T. H.; HARTZELL, S. H., 1985, Northwest U.S. subduction zone risk assessment.

HEATON, T. H.; HARTZELL, S. H., 1986, Source characteristics of hypothetical subduction earthquakes in the northwestern United States.

HEATON, T. H.; HARTZELL, S. H., 1987, Earthquake hazards on the Cascadia subduction zone.

ROGERS, G. C., COMPILER, 1979, Seismicity to the end of 1977.

ROGERS, G. C., 1983, Seismotectonics of the Juan de Fuca plate subduction zone [abstract].

SCHWARTZ, D. P., 1986, Subduction zone earthquakes in the Pacific Northwest--Evaluating the potential--Thoughts for discussion at the Seattle workshop.

SPENCE, WILLIAM, 1986, Seismicity and tectonics.

TABER, J. J., JR.; SMITH, S. W., 1985, Seismicity and focal mechanisms associated with the subduction of the Juan de Fuca plate beneath the Olympic Peninsula, Washington.

TABER, J. J., JR.; WEAVER, C. S., 1983, Seismicity of the Olympic Peninsula, Washington [abstract].

WEAVER, C. S., 1985, Geothermal seismotectonic studies.

WEAVER, C. S.; MICHAELSON, C. A., 1985, Seismicity and volcanism in the Pacific Northwest--Evidence for the segmentation of the Juan de Fuca Plate.

EARTHQUAKES AND SEISMOLOGY - JUAN DE FUCA RIDGE

LEE, K., 1977, Earthquake swarms near the northern end of the Juan de Fuca Ridge [abstract].

TOBIN, D. G.; SYKES, L. R., 1968, Seismicity and tectonics of the northeast Pacific Ocean.*

WAHLSTROM, R.; ROGERS, G. C.; ELLIS, R. M., 1987, Seismicity reassessment and earthquake focal mechanisms for the northern Juan de Fuca Ridge system [abstract].

ECHINOIDS

DURHAM, J. W., 1977, Pacific coast Cenozoic middle and high latitude Echinoidea [abstract].

Electrical surveys, see GEOPHYSICS - ELECTRICAL SURVEYS

ENDEAVOUR RIDGE

DEBEVOISE, A. E.; TAGHON, G. L., 1986, RNA-/DNA ratios of a hydrothermal vent vestimentiferan--Evidence for between-vent variation in growth rates [abstract].

HANNINGTON, M. D.; PETER, J. M.; SCOTT, S. D., 1986, Gold in sea-floor polymetallic sulfide deposits.

KADKO, D.; LUPTON, J. E.; COLLIER, R.; LILLEY, M. D.; PAK, H., 1986, Endeavour Ridge hydrothermal plume study [abstract].

KAPPEL, E. S.; RYAN, W. B. F., 1986, Volcanic episodicity and a non-steady state rift valley along northeast Pacific spreading centers--Evidence from Sea MARC 1.

KARSTEN, J. L.; HAMMOND, S. R.; DAVIS, E. E.; CURRIE, R. G., 1986, Detailed geomorphology and neotectonics of the Endeavour Segment, Juan de Fuca Ridge--New results from Seabeam swath mapping.

LIIAS, R. A.; RHODES, J. M., 1985, Basalt heterogeneity along the Juan de Fuca Ridge [abstract].

THOMSON, R. E.; MIDDLETON, J. H., 1985, Hydrothermal plumes on the Endeavour Ridge --An experiment.

Engineering materials, see DREDGED MATERIALS

EOCENE

HICKMAN, C. S.; LINDBERG, D. R., 1984, Relationship of molluscan biogeographic anomalies to changing settings on an active continental margin [abstract].

SNAVELY, P. D., JR.; MACLEOD, N. S., 1977, Evolution of the Eocene continental margin of western Oregon and Washington [abstract].

SNAVELY, P. D., JR.; MACLEOD, N. S.; PEARL, J. E., 1976, Tectonic framework of the Strait of Juan de Fuca and the Pacific continental shelf [abstract].

EXCLUSIVE ECONOMIC ZONE

see also

CASCADIA BASIN
CONTINENTAL MARGIN
JUAN DE FUCA ABYSSAL PLAIN
JUAN DE FUCA RIDGE

EXCLUSIVE ECONOMIC ZONE - BATHYMETRY

ELVERS, D. J.; MORLEY, JOSEPH, 1973, Northwest Pacific IDOE (2).

GERIN, MARYBETH; STEVENSON, A. J., COMPILERS, 1979, Equal-area base map of the north Pacific Ocean, northeast section; Albers equal-area projection.

WILDE, P.; CHASE, T. E.; HOLMES, M. L.; NORMARK, W. R.; THOMAS, J. A., 1977, Oceanographic data off Washington, 46 degrees to 49 degrees north including the Nitinat deep sea fan.

EXCLUSIVE ECONOMIC ZONE - GEOMORPHOLOGY

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

GARDNER, J. V.; CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KEN-

YON, N. H.; MASSON, D. G., 1986, Sonograph mosaic of U.S. west coast Exclusive Economic Zone [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1984, Geomorphic features of the Oregon-Washington EEZ [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1984, Sonograph mosaic of the Oregon-Washington EEZ [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1985, Geomorphic features of Oregon-Washington project EEZ-SCAN [abstract].

INTERNATIONAL SYMPOSIUM ON THE ENGINEERING PROPERTIES OF SEA-FLOOR SOILS AND THEIR GEOPHYSICAL IDENTIFICATION, 1971, Proceedings.

EXCLUSIVE ECONOMIC ZONE - GEOPHYSICS

EEZ-SCAN 84 SCIENTIFIC STAFF, 1985, MV Farnella cruises 1/84 to 4/84, 26 April to 15 August 1984 GLORIA studies of the Exclusive Economic Zone off the western United States between 30 degrees 30 minutes and 48 degrees 30 minutes N..

ELVERS, D. J.; MORLEY, JOSEPH, 1973, Northwest Pacific IDOE (2).

GARDNER, J. V.; CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G., 1986, Sonograph mosaic of U.S. west coast Exclusive Economic Zone [abstract].

HAMPTON, M. A.; CACCHIONE, D. A.; DRAKE, D. E.; KARL, N. H.; KENYON, N. H.; MASSON, D. G., 1986, GLORIA mosaic of west coast U.S. Exclusive Economic Zone, northern sector [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1985, Geomorphic features of Oregon-Washington project EEZ-SCAN [abstract].

INTERNATIONAL SYMPOSIUM ON THE ENGINEERING PROPERTIES OF SEA-FLOOR SOILS AND THEIR GEOPHYSICAL IDENTIFICATION, 1971, Proceedings.

U.S. GEOLOGICAL SURVEY, 1986, Image mapping the west coast U.S. Exclusive Economic Zone.

WILDE, P.; CHASE, T. E.; HOLMES, M. L.; NORMARK, W. R.; THOMAS, J. A., 1977, Oceanographic data off Washington, 46 degrees to 49 degrees north including the Nitinat deep sea fan.

EXCLUSIVE ECONOMIC ZONE - MAPS - GEOLOGIC

DRUMMOND, K. J.; AND OTHERS, 1983, Geologic map of the circum-Pacific region, northeast quadrant.

EXCLUSIVE ECONOMIC ZONE - MINERAL RESOURCES

ANONYMOUS, 1986, America's new frontier.

BALLARD, R. D.; BISCHOFF, J. L., PANEL CHAIRMEN, 1984, Assessment and scientific understanding of hard mineral resources in the EEZ.

CLAGUE, D. A.; BISCHOFF, J. L.; HOWELL, D. A., 1984, Nonfuel mineral resources of the Pacific Exclusive Economic Zone.

HOLSER, A. F.; MCGREGOR, B. A.; ROWLAND, R. W.; GOUD, M. R., 1984, United States government initiatives in the assessment and development of the mineral resources of the exclusive economic zone of the United States.

HORN, D. R.; HORN, B. M.; DELACH, M. N., 1972, Ferromanganese deposits of the north Pacific Ocean.

KLITGORD, K. D.; WATKINS, J. S., PANEL CHAIRMEN, 1984, Geologic studies related to oil and gas development in the EEZ--West Coast Pacific margin.

MCKELVEY, V. E., 1986, Subsea mineral resources.

MCKELVEY, V. E.; WANG, F. F. H., 1969, World subsea mineral resources.

OREGON STATE UNIVERSITY HATFIELD MARINE SCIENCE CENTER, 1985, The Edwin P. Forsythe roundtable on ocean hard mineral development [proceedings].

PRICE, N. B.; CALVERT, S. E., 1970, Compositional variation in Pacific Ocean ferromanganese nodules and its relationship to sediment accumulation rates.

ROWLAND, R. W.; GOUD, M. R.; MCGREGOR, B. A., 1983, The U.S. Exclusive Economic Zone --A summary of its geology, exploration, and resource potential.

ROWLAND, R. W.; MCGREGOR, B. A., 1984, Recommendations from the Department of the Interior EEZ Symposium.

SKORNYAKOVA, I. S., 1974, repr. 1980, Dispersed iron and manganese in Pacific Ocean sediments.

SKORNYAKOVA, N. S., 1979, Zonal regularities in occurrence, morphology and chemistry of manganese nodules of the Pacific Ocean.

SOKOLOV, B. A.; NESMEYANOV, D. V.; GAYNANOV, A. G.; SEREGIN, A. M., 1976, Geological structure and petroleum potential of the Pacific segment.

U.S. GEOLOGICAL SURVEY, 1986, Atlas of the exclusive economic zone, western conterminous United States.

WEEKS, L. G., 1974, Petroleum resources of continental margins.

EXCLUSIVE ECONOMIC ZONE - SEDIMENTS

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

HORN, D. R.; DELACH, M. N.; HORN, B. M., 1969, Distribution of volcanic ash layers and turbidites in the north Pacific.

HORN, D. R.; HORN, B. M.; DELACH, M. N., 1972, Ferromanganese deposits of the north Pacific Ocean.

MCCOY, F. W.; SANCETTA, CONSTANCE, 1985, North Pacific sediments.

NAYUDU, Y. R., 1959, Recent sediments of the northeast Pacific.

SCHOLL, D. W., 1974, Sedimentary sequences in the north Pacific trenches.

EXCLUSIVE ECONOMIC ZONE - STRATIGRAPHY

HORN, D. R.; DELACH, M. N.; HORN, B. M., 1969, Distribution of volcanic ash layers and turbidites in the north Pacific.

EXCLUSIVE ECONOMIC ZONE - STRUCTURES AND TECTONICS

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

SOKOLOV, B. A.; NESMEYANOV, D. V.; GAYNANOV, A. G.; SEREGIN, A. M., 1976, Geological structure and petroleum potential of the Pacific segment.

EXCLUSIVE ECONOMIC ZONE - VOLCANISM

MELSON, W. G.; VALLIER, T. L.; WRIGHT, T. L.; BYERLY, G. R.; NELEN, JOSEPH, 1976, Chemical diversity of abyssal volcanic glass erupted along Pacific, Atlantic, and Indian Ocean sea-floor spreading centers.

SNAVELY, P. D., JR.; MACLEOD, N. S., 1969, Local centers of Miocene volcanism along coastal Oregon and Washington [abstract].

EXCLUSIVE ECONOMIC ZONE - WASTE DISPOSAL

MANHEIM, F. T.; VINE, ALLYN, 1986, E.E.Z. may have waste disposal options.

FORAMINIFERA

ADDICOTT, W. O., 1969, Tertiary climatic change in the marginal northeastern Pacific Ocean.

BARNARD, W. D., 1972, Late Pleistocene-Holocene biostratigraphy on the Washington continental slope [abstract].

BARNARD, W. D., 1978, The Washington continental slope--Quaternary tectonics and sedimentation.

BARNARD, W. D.; MCMANUS, D. A., 1973, Planktonic foraminiferan-radiolarian stratigraphy and the Pleistocene-Holocene boundary in the northeast Pacific.

CARSON, BOBB; MCMANUS, D. A., 1971, Analysis of turbidite correlation in Cascadia Basin, northeast Pacific Ocean.

DUNCAN, J. R.; FOWLER, G. A.; KULM, L. D., 1970, Planktonic foraminiferan-radiolarian ratios and Holocene-late Pleistocene deep sea stratigraphy off Oregon.

ECHOLS, R. J.; BARNES, S. S.; HARMAN, R. A., 1969, Sediment-foraminiferal relations within inner sublittoral zone off coast of Washington [abstract].

ENBYSK, B. J., 1965, Coiling direction ratios of Foraminifera Globigerina pachyderma (Ehrenberg) in northeastern Pacific surface sediments [abstract].

ENBYSK, B. J.; COOPER, S. C., 1965, Biogenic elements in surface sediments of Cascadia Basin, northeast Pacific [abstract].

FOWLER, G. A., 1977, Radiolarian-planktonic Foramininfera ratios and Pleistocene deep-sea stratigraphy in the northeastern Pacific off Oregon and Washington [abstract].

FOWLER, G. A.; KULM, L. D.; DUNCAN, J. R.; GRIGGS, G. B., 1969, Late Quaternary deep-sea stratigraphy and paleoclimatology of a middle to high region, northeastern Pacific [abstract].

GRIGGS, G. B.; KULM, L. D.; DUNCAN, J. R.; FOWLER, G. A., 1970, Holocene faunal stratigraphy and paleoclimatic implications of deep-sea sediments in Cascadia basin.

HARMAN, R. A., 1969, Process affecting distribution of foraminifera and other biogen-

ic sediment components off coast of Washington and Oregon [abstract].

INGLE, J. C., JR., 1966, Pliocene-Miocene boundary in temperate eastern Pacific [abstract].

KILBOURNE, R. T.; GIBSON, C. N., 1979, Use of Neogloboquadrina pachyderma (Ehrenberg) coiling ratio curves for chronostratigraphic correlations of Quaternary marine sediments along the west coast [abstract].

U.S. GEOLOGICAL SURVEY, 1974, Oligocene continental slope beneath Juan de Fuca [abstract].

Geochemistry

see

JUAN DE FUCA RIDGE - GEOCHEMISTRY
SEDIMENTS - GEOCHEMISTRY

GEOCHRONOLOGY

see also specific geologic eras, e.g., TERTIARY

BUDINGER, T. F., 1967, Cobb Seamount.

DESONIE, D. L.; DUNCAN, R. A., 1986, Spreading ridge and hotspot contributions to seamounts near the Juan de Fuca Ridge [abstract].

DYMOND, J. R.; WATKINS, N. D.; NAYUDU, Y. R., 1968, Age of the Cobb Seamount.

GRIGGS, G. B.; KULM, L. D., 1970, Sedimentation in Cascadia deep-sea channel.

NAYUDU, Y. R., 1964, Carbonate deposits and paleoclimatic implications in the northeast Pacific Ocean.

NITTROUER, C. A.; STERNBERG, R. W.; CARPENTER, ROY; BENNETT, J. T., 1979, The use of Pb-210 geochronology as a sedimentological tool--Application to the Washington continental shelf.

Geologic maps, see MAPS - GEOLOGIC

GEOMORPHOLOGY

see also TERRACES

see also subdivision GEOMORPHOLOGY under specific geographic areas, e. g., CASCADIA BASIN - GEOMORPHOLOGY

GEOMORPHOLOGY - CASCADIA BASIN

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

GARDNER, J. V.; CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G., 1986, Sonograph mosaic of U.S. west coast Exclusive Economic Zone [abstract].

GRIGGS, G. B.; KULM, L. D., 1970, Physiography of Cascadia deep-sea channel.

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1984, Geomorphic features of the Oregon-Washington EEZ [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1984, Sonograph mosaic of the Oregon-Washington EEZ [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1985, Geomorphic features of Oregon-Washington project EEZ-SCAN [abstract].

KOMAR, P. D., 1973, Continuity of turbidity current flow and systematic variations in deep-sea channel morphology.

NELSON, C. H.; CARLSON, P. R.; BYRNE, J. V.; ALPHA, T. R., 1970, Development of the Astoria Canyon-fan physiography and comparison with similar systems.

GEOMORPHOLOGY - CONTINENTAL MARGIN

BERG, J. W., JR.; KING, J. M.; CARLSON, P. R., 1966, Seismic reflection studies of buried channels off the Columbia River.

BYRNE, J. V., 1963, Geomorphology of the continental terrace off the northern coast of Oregon.

DAVIS, E. E.; YORATH, C. J.; HYNDMAN, R. D.; CURRIE, R. G.; BORNHOLD, B. D.; BRANDON, M. T.; CLOWES, R. M., 1986, The deformation front of the northern Cascadia subduction zone in plan and cross section [abstract].

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

GARDNER, J. V.; CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G., 1986, Sonograph mosaic of U.S. west coast Exclusive Economic Zone [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1984, Geomorphic features of the Oregon-Washington EEZ [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1984, Sonograph mosaic of the Oregon-Washington EEZ [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1985, Geomorphic features of Oregon-Washington project EEZ-SCAN [abstract].

KACHEL, N. B., 1982, Effects of combined waves and currents on erosion, transport, and stratigraphy on a continental shelf [abstract].

NELSON, C. H.; CARLSON, P. R.; BYRNE, J. V.; ALPHA, T. R., 1970, Development of the Astoria Canyon-fan physiography and comparison with similar systems.

PALMER, L. A., 1967, Marine terraces of California, Oregon, and Washington.*

SNAVELY, P. D., JR.; PEARL, J. E.; LANDER, D. L., 1977, Interim report on petroleum resources potential and geologic hazards in the outer continental shelf--Oregon and Washington Tertiary province; with a section on Resource appraisal estimate, by E. W. Scott.

SNAVELY, P. D., JR.; PEARL, J. E.; LANDER, D. L., 1978, Petroleum resources potential and geologic hazards of the Oregon-Washington outer continental shelf [abstract].

GEOMORPHOLOGY - JUAN DE FUCA RIDGE

DAVIS, E. E.; CURRIE, R. G.; RIDDIHOUGH, R. P.; RYAN, W. B. F.; KASTENS, K.; HUSSONG, D. M.; HAMMOND, S. R.; MALAHOFF, ALEXANDER, 1984, Geological mapping of the northern Juan de Fuca and Explorer Ridges using SeaMARC I, SeaMARC II, and Seabeam acoustic imaging [abstract].

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

GARDNER, J. V.; CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G., 1986, Sonograph mosaic of U.S. west coast Exclusive Economic Zone [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1984, Geomorphic features of the Oregon-Washington EEZ [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1984, Sonograph mosaic of the Oregon-Washington EEZ [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1985, Geomorphic features of Oregon-Washington project EEZ-SCAN [abstract].

KARSTEN, J. L.; HAMMOND, S. R.; DAVIS, E. E.; CURRIE, R. G., 1986, Detailed geomorphology and neotectonics of the Endeavour Segment, Juan de Fuca Ridge--New results from Seabeam swath mapping.

LEE, J. S.; HAMMOND, S. R., 1984, Morphology of Heck and Heckle seamount chains, Juan de Fuca Ridge [abstract].

Geophysical maps, see MAPS - GEOPHYSICAL

GEOPHYSICS

see also subdivision GEOPHYSICS under specific geographic areas, e. g., CASCADIA BASIN - GEOPHYSICS and under specific subjects, e. g., SEDIMENTS - GEOPHYSICS

GEOPHYSICS - ACOUSTIC SURVEYS

DAVIS, E. E.; CURRIE, R. G.; RIDDIHOUGH, R. P.; RYAN, W. B. F.; KASTENS, K.; HUSSONG, D. M.; HAMMOND, S. R.; MALAHOFF, ALEXANDER, 1984, Geological mapping of the northern Juan de Fuca and Explorer Ridges using SeaMARC I, SeaMARC II, and Seabeam acoustic imaging [abstract].

DAVIS, E. E.; CURRIE, R. G.; RIDDIHOUGH, R. P.; SAWYER, B. S., 1985, A new look at the Juan de Fuca Ridge--High-resolution bathymetry and side-scan acoustic imagery.

DAVIS, E. E.; CURRIE, R. G.; VILLINGER, H.; GOODFELLOW, W. D.; HUSSONG, D. M.; RYAN, W. B. F.; HAMMOND, S. R., 1986, Regional acoustic imagery and detailed geophysical studies of northern Juan de Fuca Ridge [abstract].

EEZ-SCAN 84 SCIENTIFIC STAFF, 1985, MV Farnella cruises 1/84 to 4/84, 26 April to 15 August 1984 GLORIA studies of the Exclusive Economic Zone off the western United States between 30 degrees 30 minutes and 48 degrees 30 minutes N..

HORN, D. R.; HORN, B. M.; DELACH, M. N., 1968, Sonic properties of deep-sea cores from the North Pacific Basin and their bearing on the acoustic provinces of the North Pacific.

U.S. GEOLOGICAL SURVEY, 1986, Image mapping the west coast U.S. Exclusive Economic Zone.

GEOPHYSICS - ELECTRICAL SURVEYS

NOBES, D. C.; VILLINGER, H.; DAVIS, E. E.; LAW, L. K., 1986, Estimation of marine sediment bulk physical properties at depth from seafloor geophysical measurements.

GEOPHYSICS - GRAVITY SURVEYS

see also subdivision GEOPHYSICS - GRAVITY SURVEYS under specific geographic areas, e. g., CONTINENTAL MARGIN - GEOPHYSICS - GRAVITY SURVEYS

MCNUTT, MARCIA, 1979, Compensation of oceanic topography--An application of the response function technique to the Surveyor area.

GEOPHYSICS - GRAVITY SURVEYS - CASCADIA BASIN

DEHLINGER, PETER; COUCH, R. W., 1971, Gravity investigations west of the coasts of Oregon, Washington, and northern California [abstract].

ELVERS, D. J.; WALTON, FRED; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO, 1972, Deformation of the sea floor as revealed by seismic reflection and systematic gravity and magnetic measurements from the Tufts Abyssal Plain to the Washington-Oregon coast [abstract].

GEOPHYSICS - GRAVITY SURVEYS - CONTINENTAL MARGIN

CONNARD, GERRY; COUCH, R. W.; PITTS, G. S.; ROY, J.; KEELING, KENNETH; PITTS, P.; WATKINS, R. ; PEPER, J. S., COMPILERS, 1984, Free-air gravity anomalies.

CONNARD, GERRY; COUCH, R. W.; PITTS, G. S.; TROSETH, S., COMPILERS, 1984, Simple Bouguer gravity anomalies.

COUCH, R. W., 1969, Gravity and structures of the continental margin off Washington and British Columbia [abstract].

COUCH, R. W., 1969, Gravity and structures of the crust and subcrust in the northeast Pacific Ocean west of Washington and British Columbia.*

COUCH, R. W., 1972, Gravity and structure of the continental margin of the northeast Pacific Ocean [abstract].

DEHLINGER, PETER; CHIBURIS, E. F., 1972, Gravity at sea.

DEHLINGER, PETER; COUCH, R. W., 1971, Gravity investigations west of the coasts of Oregon, Washington, and northern California [abstract].

DEHLINGER, PETER; COUCH, R. W.; GEMPERLE, MICHAEL; RINEHART, W. A., 1966, Gravity investigations in the north Pacific Ocean [abstract].

RIDDIHOUGH, R. P., 1979, Gravity and structure of an active margin--British Columbia and Washington.

SEIDEL, DEAN; ELVERS, D. J.; POTTER, KENNETH; MORLEY, JOSEPH; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO; IWABUCHI, YOSHIO; IIZUKA, SUSAMI; AND OTHERS, 1973, Gravity profiles--Northeast Pacific.

WAGNER, H. C.; BATATIAN, L. D.; LAMBERT, T. M.; TOMSON, J. H., 1986, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental slope off southwestern Washington between latitudes 46 degrees N. and 48 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W.

GEOPHYSICS - GRAVITY SURVEYS - JUAN DE FUCA RIDGE

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

DEHLINGER, PETER; COUCH, R. W., 1971, Gravity investigations west of the coasts of Oregon, Washington, and northern California [abstract].

ELVERS, D. J.; WALTON, FRED; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO, 1972, Deformation of the sea floor as revealed by seismic reflection and systematic gravity and magnetic measurements from the Tufts Abyssal Plain to the Washington-Oregon coast [abstract].

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

PEARSON, W. C., 1975, A gravity study of the Juan de Fuca Ridge and Sovanco Fracture Zone in the northeast Pacific Ocean.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

SEIDEL, DEAN; POTTER, KENNETH; ELVERS, D. J.; IWABUCHI, YOSHIO, 1972, Systematic gravity measurements over the Gorda and Juan de Fuca Rises westward to the Surveyor and Sedna fracture zones (NOAA-IDOE, 1970) [abstract].

GEOPHYSICS - GRAVITY SURVEYS - JUAN DE FUCA PLATE

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

RIDDIHOUGH, R. P., 1983, Juan de Fuca Plate map--Gravity [abstract].

GEOPHYSICS - MAGNETIC SURVEYS

see also subdivision GEOPHYSICS - MAGNETIC SURVEYS under specific geographic areas, e. g., CONTINENTAL MARGIN - GEOPHYSICS - MAGNETIC SURVEYS

. GEOPHYSICS - MAGNETIC SURVEYS - CASCADIA BASIN

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

ELVERS, D. J.; WALTON, FRED; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO, 1972, Deformation of the sea floor as revealed by seismic reflection and systematic gravity and magnetic measurements from the Tufts Abyssal Plain to the Washington-Oregon coast [abstract].

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

ZIETZ, ISIDORE; BOND, KEVIN; JOHNSON, P. R., 1986, Enhanced magnetic anomaly map of the western United States and offshore areas [abstract].

GEOPHYSICS - MAGNETIC SURVEYS - CONTINENTAL MARGIN

ATWATER, T. M., 1971, Magnetic lineations in the northeast Pacific Ocean--Implications for marine and continental tectonic history [abstract].

ATWATER, T. M.; MENARD, H. W., 1970, Magnetic lineations in the northeast Pacific.

BARR, S. M., 1972, Geology of the northern end of Juan de Fuca Ridge and adjacent continental slope.*

BERG, J. W., JR.; EMILIA, D. A.; BALES, W. E., 1968, Magnetic studies off the Pacific Northwest coast [abstract].

CONNARD, GERRY; COUCH, R. W.; NESS, G.; TROSETH, S., COMPILERS, 1984, Magnetic anomaly identifications.

CONNARD, GERRY; COUCH, R. W.; PITTS, G. S.; ROY, J.; GEMPERLE, MICHAEL; TROSETH, S., COMPILERS, 1984, Magnetic total intensity anomalies.

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

EMILIA, D. A.; BERG, J. W., JR.; BALES, W. E., 1966, A magnetic survey off the Pacific Northwest coast.

EMILIA, D. A.; BERG, J. W., JR.; BALES, W. E., 1968, Magnetic anomalies off the northwest coast of the United States.

HAYES, D. E.; PITMAN, W. C., III, 1970, Magnetic lineations in the north Pacific.

IRVING, E.; ROY, J. L., 1968, Intensite et stabilite d'aimantation des basaltes de l'Oregon et Washington et leurs applications a l'expansion du fond de l'ocean et a d'autres problemes geophysiques.

PETER, GEORGE, 1969, Magnetic structural provinces in the northeast Pacific Ocean [abstract].

PITMAN, W. C., III, 1967, Magnetic anomalies in the Pacific and ocean floor spreading.*

PITMAN, W. C., III; HERRON, E.; HEIRTZLER, J. R., 1968, Magnetic anomalies in the Pacific and ocean floor spreading.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

RAFF, A. D., 1966, Boundaries of an area of very long magnetic anomalies in the northeast Pacific.

SNAVELY, P. D., JR., 1981, Geophysical data collected on the continental margin midway between Washington State and Vancouver Island, B. C., along line 19, USGS R/V S.P. Lee cruise 3-76.

SNAVELY, P. D., JR.; WAGNER, H. C., 1982, Geophysical data collected on the southern Washington continental shelf along line 12, USGS R/V S.P. Lee cruise 3-76.

U.S. GEOLOGICAL SURVEY, 1980, Aeromagnetic map of offshore northwest Washington.

U.S. GEOLOGICAL SURVEY, 1980, Aeromagnetic map of the north central Washington coast.

VINE, F. J., 1968, Paleomagnetic evidence for the northward movement of the North Pacific Basin during the past 100 m.y. [abstract].

VINE, F. J.; WILSON, J. T., 1965, Magnetic anomalies over a young oceanic ridge off Vancouver Island.

WAGNER, H. C., 1985, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental shelf and upper continental slope off southwestern Washington between latitudes 46 degrees N. and 47 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W.

WAGNER, H. C.; BATATIAN, L. D.; LAMBERT, T. M.; TOMSON, J. H., 1986, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental slope off southwestern Washington between latitudes 46 degrees N. and 48 degrees 30 minutes N. and from the Washington coast to 125 degrees W.

WILSON, J. T., 1965, Transform faults, oceanic ridges, and magnetic anomalies southwest of Vancouver Island.

ZIETZ, ISIDORE; BOND, KEVIN; JOHNSON, P. R., 1986, Enhanced magnetic anomaly map of the western United States and offshore areas [abstract].

GEOPHYSICS - MAGNETIC SURVEYS - JUAN DE FUCA PLATE

CHEN, J.; NIENABER, W.; DOSSO, H. W., 1986, Electromagnetic induction in the Pacific north-west coastal region [abstract].

RIDDIHOUGH, R. P., 1984, Recent movements of the Juan de Fuca plate system.

RIDDIHOUGH, R. P., COMPILER; PRICE, W.; FRANKLIN, R., PREPARERS, 1984, Magnetic anomalies.

GEOPHYSICS - MAGNETIC SURVEYS - JUAN DE FUCA RIDGE

ATWATER, T. M., 1971, Magnetic lineations in the northeast Pacific Ocean--Implications for marine and continental tectonic history [abstract].

ATWATER, T. M.; MENARD, H. W., 1970, Magnetic lineations in the northeast Pacific.

BARR, S. M., 1972, Geology of the northern end of Juan de Fuca Ridge and adjacent continental slope.*

BARR, S. M., 1973, The spreading centre near the northern end of Juan de Fuca Ridge [abstract].

BARR, S. M., 1974, Seamount chains formed near the crest of Juan de Fuca Ridge, northeast Pacific Ocean.

BARR, S. M.; CHASE, R. L., 1974, Geology of the northern end of Juan de Fuca Ridge and sea-floor spreading.

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

DELANEY, J. R.; JOHNSON, H. P.; KARSTEN, J. L., 1981, The Juan de Fuca Ridge--Hot spot --Propagating rift system--New tectonic, geochemical, and magnetic data [abstract].

ELVERS, D. J.; SRIVASTAVA, S. P.; POTTER, KENNETH; MORLEY, JOSEPH; SEIDEL, DEAN, 1973, Asymmetric spreading across the Juan de Fuca and Gorda rises as obtained from a detailed magnetic survey.

ELVERS, D. J.; WALTON, FRED; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO, 1972, Deformation of the sea floor as revealed by seismic reflection and systematic gravity and magnetic measurements from the Tufts

Abyssal Plain to the Washington-Oregon coast [abstract].

JOHNSON, H. P.; KARSTEN, J. L.; DELANEY, J. R.; DAVIS, E. E.; CURRIE, R. G.; CHASE, R. L., 1983, A detailed study of the Cobb offset of the Juan de Fuca Ridge--Evolution of a propagating rift.

LAW, L. K.; GREENHOUSE, J. P., 1978, Ocean bottom magnetometer results from the Juan de Fuca Ridge [abstract].

LEVI, S.; RIDDIHOUGH, R. P., 1985, Why are marine magnetic anomalies suppressed over sedimented spreading centers? [abstract].

LISTER, C. R. B.; MCMANUS, D. A., 1968, Detailed geophysical study on the flank of Juan de Fuca Ridge [abstract].

MCMANUS, D. A.; HOLMES, M. L.; CARSON, BOBB; BARR, S. M., 1972, Late Quaternary tectonics, northern end of Juan de Fuca Ridge (northeast Pacific).

MERRILL, R. T.; BURNS, R. E., 1972, A detailed magnetic study of Cobb Seamount.

NOBES, D. C.; LAW, L. K., 1984, A controlled source electrical sounding of the ocean floor near the Juan de Fuca Ridge [abstract].

PAVONI, N., 1971, Interpretation of the magnetic anomalies southwest of Vancouver Island.

PAYTON, W. H.; LAVIN, P. M., 1987, Application of directional filtering to separate Juan de Fuca seamount magnetic anomalies from seafloor magnetic lineations [abstract].

PETER, GEORGE; LATTIMORE, ROBERT, 1969, Magnetic structure of the Juan de Fuca-Gorda Ridge area.

PITMAN, W. C., III, 1967, Magnetic anomalies in the Pacific and ocean floor spreading.*

PITMAN, W. C., III; HERRON, E.; HEIRTZLER, J. R., 1968, Magnetic anomalies in the Pacific and ocean floor spreading.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

TIVEY, M. A.; JOHNSON, H. P., 1985, A near-bottom magnetic survey over an active hydrothermal vent field--Northern Juan de Fuca Ridge [abstract].

VINE, F. J.; WILSON, J. T., 1965, Magnetic anomalies over a young oceanic ridge off Vancouver Island.

WILSON, D. S., 1985, Tectonic history of the Juan de Fuca Ridge from 40 million years to present [abstract].

WOLFGRAM, P. A.; EDWARDS, R. N.; LAW, L. K.; BONE, M. N., 1984, Electrical resistivity sounding over sulfides on the northern Juan de Fuca Ridge--The sea floor MOSES experiments [abstract].

ZIETZ, ISIDORE; BOND, KEVIN; JOHNSON, P. R., 1986, Enhanced magnetic anomaly map of the western United States and offshore areas [abstract].

GEOPHYSICS - RESISTIVITY SURVEYS

see also subdivision GEOPHYSICS - RESISTIVITY SURVEYS under specific geographic areas, e. g., JUAN DE FUCA PLATE - GEOPHYSICS - RESISTIVITY SURVEYS

CHEN, J.; NIENABER, W.; DOSSO, H. W., 1986, Electromagnetic induction in the Pacific north-west coastal region [abstract].

NOBES, D. C.; LAW, L. K., 1984, A controlled source electrical sounding of the ocean floor near the Juan de Fuca Ridge [abstract].

NOBES, D. C.; VILLINGER, H.; DAVIS, E. E.; LAW, L. K., 1985, Prediction of bulk physical properties at depth for middle valley sediments, Juan de Fuca Ridge [abstract].

WOLFGRAM, P. A.; EDWARDS, R. N.; LAW, L. K.; BONE, M. N., 1984, Electrical resistivity sounding over sulfides on the northern Juan de Fuca Ridge--The sea floor MOSES experiments [abstract].

GEOPHYSICS - SEISMIC SURVEYS

see also subdivision GEOPHYSICS - SEISMIC SURVEYS under specific geographic areas, e. g., CONTINENTAL MARGIN - GEOPHYSICS - SEISMIC SURVEYS

GEOPHYSICS - SEISMIC SURVEYS - CASCADIA BASIN

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

ELVERS, D. J.; MORLEY, JOSEPH, 1973, Northwest Pacific IDOE (2).

ELVERS, D. J.; WALTON, FRED; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO, 1972, Deformation of the sea floor as revealed by seismic reflection and systematic gravity and magnetic measurements from the Tufts Abyssal Plain to the Washington-Oregon coast [abstract].

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

KULM, L. D.; PEPER, J. S.; HOLMES, M. L., COMPILERS, 1984, Seismic reflection tracklines.

MCCLAIN, K. J.; PEPER, J. S.; HOLMES, M. L., COMPILERS, 1984, Single channel seismic reflection records of western Washington margin and Cascadia basin.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

GEOPHYSICS - SEISMIC SURVEYS - CONTINENTAL MARGIN

BARNARD, W. D., 1978, The Washington continental slope--Quaternary tectonics and sedimentation.

BENNETT, L. C., JR.; ECHOLS, R. J., 1971, Shallow seismic stratigraphy on the continental shelf of Washington [abstract].

BENNETT, L. C., JR.; GRIM, M. S., 1968, Investigation of the continental shelf structure off the coast of Washington [abstract].

BERG, J. W., JR.; KING, J. M.; CARLSON, P. R., 1966, Seismic reflection studies of buried channels off the Columbia River.

BORNHOLD, B. D.; BRANDON, M. T.; CLOWES, R. M.; CURRIE, R. G.; DAVIS, E. E.; HUSSONG, D. M.; HYNDMAN, R. D.; RIDDIHOUGH, R. P.; ROGERS, G. C.; YORATH, C. J., 1986, Recent acoustic studies of western Canadian continental margin [abstract].

CARSON, BOBB; MCMANUS, D. A., 1969, Seismic reflection profiles across Juan de Fuca canyon.

CARSON, BOBB; YUAN, J.-W., 1972, Pattern of deep-sea sediment deformation at a compressive continental margin [abstract].

CHASE, T. E.; HOLMES, M. L.; WILDE, P.; NORMARK, W. R., 1977, Compilation of marine geologic and oceanographic data off the western United States; Cascadia sheet [abstract].

CHASE, T. E.; NORMARK, W. R.; WILDE, P., 1976, Compilations of marine geologic and oceanographic data off the west coast of the United States [abstract].

COCHRANE, G. R.; LEWIS, B. T. R., 1984, Comparison of structures in underthrusting and overthrusting lower slope sediments of the Washington-Oregon convergent margin [abstract].

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

ELLIS, R. M.; SPENCE, G. D.; CLOWES, R. M.; WALDRON, D. A.; JONES, I. F.; GREEN, A. G.; FORSYTH, D. A.; MAIR, J. A.; BERRY, M. J.; AND OTHERS, 1983, The Vancouver Island seismic project--A CO-CRUST onshore-offshore study of a convergent margin.

ELVERS, D. J.; MORLEY, JOSEPH, 1973, Northwest Pacific IDOE (2).

FIELD, M. E.; CARLSON, P. R.; HALL, R. K., 1983, Seismic facies of shelfedge deposits, U.S. Pacific continental margin.

GRIM, M. S.; BENNETT, L. C., JR., 1968, Geophysical investigations of the continental shelf off the coast of Washington--A preliminary report [abstract].

GRIM, M. S.; BENNETT, L. C., JR., 1969, Shallow seismic profiling of the continental shelf off Grays Harbor, Washington.

GRIM, M. S.; BENNETT, L. C., JR., 1969, Shallow sub-bottom geology of the Washington shelf off Grays Harbor [abstract].

GRIM, M. S.; BENNETT, L. C., JR.; HARMAN, R. A., 1968, Shallow seismic profiling of the continental shelf off Grays Harbor, Washington [abstract].

HENDRICKSON, M. A., 1986, The determination of seismic structure from teleseismic P waveforms on the Washington continental margin.

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

KULM, L. D.; PETERSON, C. P., COMPILERS, 1984, Multichannel seismic records of

northern Washington and central Oregon margin.

LEWIS, B. T. R., 1984, Analysis of Washington margin deep-tow seismic reflection data.

LEWIS, B. T. R., COMPILER, 1984, Deep-tow seismic reflection experiment, Washington margin.

LEWIS, B. T. R.; COCHRANE, G. R., 1984, Comparison of seismic reflection methods used to study the Washington-Oregon margin [abstract].

MANN, D. M.; SNAVELY, P. D., JR., 1984, Multichannel seismic-reflection profiles collected in 1977 in the eastern Pacific Ocean off of the Washington/Oregon coast.

MCCLAIN, K. J.; TABER, J. J., JR., COMPILERS, 1984, Regional seismic refraction.

NITTROUER, C. A.; STERNBERG, R. W.; HOLMES, M. L., 1977, Shallow stratigraphy and Holocene sedimentation on the Washington continental shelf [abstract].

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

RIDDIHOUGH, R. P., 1979, Gravity and structure of an active margin--British Columbia and Washington.

SAVAGE, J. C.; LISOWSKI, M.; PRESCOTT, W. H., 1981, Dislocation model for strain accumulation along the Washington coast [abstract].

SNAVELY, P. D., JR., 1979, Stratigraphic and tectonic framework, Oregon-Washington continental margin [abstract].

SNAVELY, P. D., JR., 1981, Geophysical data collected on the continental margin midway between Washington State and Vancouver Island, B. C., along line 19, USGS R/V S.P. Lee cruise 3-76.

TABER, J. J., JR.; LEWIS, B. T. R., 1986, Crustal structure of the Washington continental margin from refraction data.

TOBIN, D. G.; SYKES, L. R., 1968, Seismicity and tectonics of the northeast Pacific Ocean.*

WISSMANN, GERD, 1970, Shallow sub-bottom geology of the Washington shelf south of La Perouse Bank [abstract].

GEOPHYSICS - SEISMIC SURVEYS - JUAN DE FUCA PLATE

AU, D.; CLOWES, R. M., 1979, Crustal structure near the Juan de Fuca and Explorer plate boundary from seismic refraction data [abstract].

BARNARD, W. D., 1978, The Washington continental slope--Quaternary tectonics and sedimentation.

CLOWES, R. M.; BRANDON, M. T.; GREEN, A. G.; YORATH, C. J.; SUTHERLAND BROWN, A.; KANASEWICH, E. R.; SPENCER, C., 1987, LITHOPROBE--Southern Vancouver Islands--Cenozoic subduction complex imaged by deep seismic reflections.

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

ELLIS, R. M.; SPENCE, G. D.; CLOWES, R. M.; WALDRON, D. A.; JONES, I. F.; GREEN, A. G.; FORSYTH, D. A.; MAIR, J. A.; BERRY, M. J.; AND OTHERS, 1983, The Vancouver Island seismic project--A CO-CRUST onshore-offshore study of a convergent margin.

MICHAELSON, C. A.; WEAVER, C. S., 1986, Upper mantle structure from teleseismic P wave arrivals in Washington and northern Oregon.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

TABER, J. J., JR.; LEWIS, B. T. R., 1986, Crustal structure of the Washington continental margin from refraction data.

TABER, J. J., JR.; SMITH, S. W., 1985, Seismicity and focal mechanisms associated with the subduction of the Juan de Fuca plate beneath the Olympic Peninsula, Washington.

WALCK, M. C., 1985, The upper mantle beneath the north-east Pacific rim--A comparison with the Gulf of California.

GEOPHYSICS - SEISMIC SURVEYS - JUAN DE FUCA RIDGE

CHRISTENSEN, N. I., 1970, Compressional-wave velocities in basalts from the Juan de Fuca Ridge.

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

DAVIS, E. E.; LISTER, C. R. B., 1972, Crustal structure of the Juan de Fuca Ridge [abstract].

ELVERS, D. J.; MORLEY, JOSEPH, 1973, Northwest Pacific IDOE (2).

ELVERS, D. J.; WALTON, FRED; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO, 1972, Deformation of the sea floor as revealed by seismic reflection and systematic gravity and magnetic measurements from the Tufts Abyssal Plain to the Washington-Oregon coast [abstract].

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

JACOBSON, R. S.; BIBEE, L. D.; EMBLEY, R. W.; HAMMOND, S. R., 1987, A microseismicity survey of Axial Seamount, Juan de Fuca Ridge.

JOHNSON, H. P.; KARSTEN, J. L.; DELANEY, J. R.; DAVIS, E. E.; CURRIE, R. G.; CHASE, R. L., 1983, A detailed study of the Cobb offset of the Juan de Fuca Ridge--Evolution of a propagating rift.

KULM, L. D.; PEPER, J. S.; HOLMES, M. L., COMPILERS, 1984, Seismic reflection tracklines.

LEE, K., 1977, Earthquake swarms near the northern end of the Juan de Fuca Ridge [abstract].

MCMANUS, D. A.; HOLMES, M. L.; CARSON, BOBB; BARR, S. M., 1972, Late Quaternary tectonics, northern end of Juan de Fuca Ridge (northeast Pacific).

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

SHOR, G. G., JR.; MENARD, H. W.; RAITT, R. W., 1970, Structure of the Pacific Basin.

TOBIN, D. G.; SYKES, L. R., 1968, Seismicity and tectonics of the northeast Pacific Ocean.*

GEOPHYSICS - THERMAL SURVEYS

see also subdivision GEOPHYSICS - THERMAL SURVEYS under specific geographic areas, e. g., CONTINENTAL MARGIN - GEOPHYSICS - THERMAL SURVEYS

GEOPHYSICS - THERMAL SURVEYS - CASCADIA BASIN

HYNDMAN, R. D., COMPILER; PRICE, W., PREPARER, 1983, Geothermal heat flux.

KORGEN, B. J.; BODVARSSON, GUNNAR; MESECAR, R. S., 1971, Heat flow through the floor of Cascadia Basin.

MORAN, J. E.; LISTER, C. R. B., 1985, A heat flow profile across Cascadia Basin [abstract].

SCHEIDEGGER, K. F., COMPILER, 1984, Thermal evolution of the Juan de Fuca Plate.

GEOPHYSICS - THERMAL SURVEYS - CONTINENTAL MARGIN

CONNARD, GERRY; COUCH, R. W.; ROY, J.; PITTS, G. S.; KULM, S., COMPILERS, 1984, Heat flow.

HYNDMAN, R. D., COMPILER; PRICE, W., PREPARER, 1983, Geothermal heat flux.

LANGSETH, M. G.; HOBART, M. A., 1984, A marine geothermal study over deformed sediments of the subduction complex off Oregon and Washington [abstract].

SCHEIDEGGER, K. F., COMPILER, 1984, Thermal evolution of the Juan de Fuca Plate.

GEOPHYSICS - THERMAL SURVEYS - JUAN DE FUCA RIDGE

APPELGATE, B.; BRINKHURT, R.; BUTTERFIELD, D.; COWEN, J.; DEBEVOISE, A. E.; DECHARON, A.; EMBLEY, R. W.; FEELY, R. A.; FOX, C. G.; FRANKLIN, J.; ET AL, 1986, Pisces submersible exploration of a high-temperature vent field in the caldera of Axial Volcano, Juan de Fuca Ridge [abstract].

BAKER, E. T.; MASSOTH, G. J., 1985, Heat and particle fluxes from active vent fields on the Juan de Fuca Ridge [abstract].

CRANE, KATHLEEN; AIKMAN, FRANK, III; EMBLEY, R. W.; HAMMOND, S. R.; MALAHOFF, ALEXANDER; LUPTON, J. E., 1985, The distribution of geothermal fields on the Juan de Fuca Ridge.

DAVIS, E. E.; LISTER, C. R. B., 1977, Heat flow measured over the Juan de Fuca Ridge--Evidence for widespread hydrothermal circulation in a highly heat transportive crust.

HAMMOND, S. R.; KARSTEN, J. L.; DAVIS, E. E.; CURRIE, R. G.; MALAHOFF, ALEXANDER,

1983, Bathymetric and hydrothermal characterization of the northernmost Juan de Fuca Ridge [abstract].

HAMMOND, S. R.; MALAHOFF, ALEXANDER, 1982, Structure of the Juan de Fuca Ridge hotspot region from seabeam bathymetry [abstract].

HYNDMAN, R. D., COMPILER; PRICE, W., PREPARER, 1983, Geothermal heat flux.

KADKO, D.; LUPTON, J. E., 1984, Radon-222 and temperature measurements on the Endeavor Ridge [abstract].

LISTER, C. R. B.; MCMANUS, D. A., 1968, Detailed geophysical study on the flank of Juan de Fuca Ridge [abstract].

LUPTON, J. E., 1985, Vertical transport of deep ocean water by submarine hydrothermal vents [abstract].

LUPTON, J. E.; DELANEY, J. R.; JOHNSON, M. P.; TIVEY, M., 1984, Water-column temperature anomalies near an active deep-sea hydrothermal vent [abstract].

NOBES, D. C.; VILLINGER, H.; DAVIS, E. E.; LAW, L. K., 1985, Prediction of bulk physical properties at depth for middle valley sediments, Juan de Fuca Ridge [abstract].

NOBES, D. C.; VILLINGER, H.; DAVIS, E. E.; LAW, L. K., 1986, Estimation of marine sediment bulk physical properties at depth from seafloor geophysical measurements.

RIDDIHOUGH, R. P.; ROGERS, G. C.; HYNDMAN, R. D., 1985, Juan de Fuca Plate map series --Recent plate motions, geothermal heat flux, magnetic anomalies [abstract].

VILLINGER, H.; DAVIS, E. E., 1984, Heat flow and bottom water temperature measurements from the Rift Valley of the northern Juan de Fuca Ridge [abstract].

VILLINGER, H.; DAVIS, E. E., 1986, Hydrothermal regime of a sedimented rift valley, northern Juan de Fuca Ridge [abstract].

GEOPHYSICS - TILT SURVEYS

see also subdivision GEOPHYSICS - TILT SURVEYS under specific geographic areas, e. g., CONTINENTAL MARGIN - GEOPHYSICS - TILT SURVEYS

ADAMS, JOHN, 1984, Active deformation of the Pacific Northwest continental margin.

GEOTHERMAL RESOURCES

see also

GEOPHYSICS - THERMAL SURVEYS
HYDROTHERMAL VENTS

CONNARD, GERRY; COUCH, R. W.; ROY, J.; PITTS, G. S.; KULM, S., COMPILERS, 1984, Heat flow.

CRANE, KATHLEEN; AIKMAN, FRANK, III; EMBLEY, R. W.; HAMMOND, S. R.; MALAHOFF, ALEXANDER; LUPTON, J. E., 1985, The distribution of geothermal fields on the Juan de Fuca Ridge.

HYNDMAN, R. D., COMPILER; PRICE, W., PREPARER, 1983, Geothermal heat flux.

RIDDIHOUGH, R. P.; ROGERS, G. C.; HYNDMAN, R. D., 1985, Juan de Fuca Plate map series --Recent plate motions, geothermal heat flux, magnetic anomalies [abstract].

RONA, P. A., 1983, Potential mineral and energy resources at submerged plate boundaries.

WEAVER, C. S., 1985, Combined regional seismotectonics and the extent of Cenozoic volcanism--An improved first-order geothermal assessment of the Cascade Range.

GLACIAL GEOLOGY

see also

QUATERNARY

DUNCAN, J. R.; KULM, L. D., 1968, Post-glacial and late Pleistocene sedimentation in the abyssal environments off Oregon-Washington [abstract].

GRIGGS, G. B.; KULM, L. D., 1969, Glacial marine sediments from the northeast Pacific.

HERZER, R. H.; BORNHOLD, B. D., 1982, Glaciation and post-glacial history of the continental shelf off southwestern Vancouver Island, British Columbia.

GOLD

HANNINGTON, M. D.; PETER, J. M.; SCOTT, S. D., 1986, Gold in sea-floor polymetallic sulfide deposits.

HOLSER, A. F.; ROWLAND, R. W.; GOUD, M. R., 1981, A compilation of subsea energy and mineral resources of the United States including its possessions and Trust Territory of the Pacific Islands.

MANHEIM, F. T.; HESS, H. D., 1981, Offshore hard minerals around the U.S. continental margins.

NATIONAL ADVISORY COMMITTEE ON OCEANS AND ATMOSPHERE, 1983, Marine minerals--An alternative mineral supply; National ocean goals and objectives for the 1980's.

GRAVEL

BALLARD, R. D.; BISCHOFF, J. L., PANEL CHAIRMEN, 1984, Assessment and scientific understanding of hard mineral resources in the EEZ.

GRIGGS, G. B.; KULM, L. D.; WATERS, A. C.; FOWLER, G. A., 1970, Deep-sea gravel from Cascadia channel.

MOORE, G. W.; LUKEN, M. D., 1979, Offshore sand and gravel resources of the Pacific Northwest.

ROWLAND, R. W.; MCGREGOR, B. A., 1984, Recommendations from the Department of the Interior EEZ Symposium.

VENKATARATHNAM, KOLLA; MCMANUS, D. A., 1973, Origin and distribution of sands and gravels on the northern continental shelf off Washington.

Gravity surveys, see GEOPHYSICS - GRAVITY SURVEYS

GRAYS CANYON

SHEPARD, F. P.; DILL, R. F., 1966, repr. 1976, Summary characteristics and dimensions of submarine canyons.

Holocene, see QUATERNARY - HOLOCENE

HYDROTHERMAL VENTS - AXIAL CALDERA AND AXIAL SEAMOUNT

APPELGATE, B.; BRINKHURT, R.; BUTTERFIELD, D.; COWEN, J.; DEBEVOISE, A. E.; DECHARON, A.; EMBLEY, R. W.; FEELY, R. A.; FOX, C. G.; FRANKLIN, J.; ET AL, 1986, Pisces submersible exploration of a high-temperature vent field in the caldera of Axial Volcano, Juan de Fuca Ridge [abstract].

CANADIAN AMERICAN SEAMOUNT EXPEDITION, 1985, Hydrothermal vents on an axis seamount of the Juan de Fuca ridge.

HANNINGTON, M. D.; SCOTT, S. D., 1986, Processes of sulfide accumulation in seafloor polymetallic sulfide deposits--Axial seamount and southern Explorer Ridge [abstract].

JOHNSON, H. P.; TUNNICLIFFE, VERENA, 1986, Time-lapse camera measurements of a high-temperature hydrothermal system on Axial Seamount--Juan de Fuca Ridge [abstract].

LEWISON, M. A.; FEELY, R. A.; CURL, H. C., JR.; GEISELMAN, T. L., 1986, Composition of smoker particulates from active vents within the caldera of Axial Volcano on the Juan de Fuca Ridge [abstract].

MURPHY, K. M.; FOX, C. G.; EMBLEY, R. W.; LAU, T.-K. A.; HAMMOND, S. R., 1986, Classification and graphic display of bottom photography for geologic mapping [abstract].

TUNNICLIFFE, VERENA, 1986, Cruise reports--PANDORA II/PISCES IV, 10 July-5 August, 1986.

HYDROTHERMAL VENTS - JUAN DE FUCA RIDGE

BAKER, E. T.; MASSOTH, G. J., 1985, Heat and particle fluxes from active vent fields on the Juan de Fuca Ridge [abstract].

CASM RESEARCH GROUP (CHASE, R. L.; DELANEY, J. R.; JOHNSON, H. P.; JUNIPER, S. K.; KARSTEN, J. L.; LUPTON, J. E.; SCOTT, S. D.; TUNNICLIFFE, VERENA), 1983, North caldera hydrothermal vent field, Axial seamount Juan de Fuca Ridge [abstract].

CHEN, J. H.; WASSERBURG, G. H., 1985, U, Th and Pb isotopes in hydrothermal fluids from the Juan de Fuca Ridge [abstract].

DEBEVOISE, A. E.; TAGHON, G. L., 1986, RNA /DNA ratios of a hydrothermal vent vesti mentiferan--Evidence for between-vent variation in growth rates [abstract].

DELANEY, J. R.; KARSTEN, J. L.; JOHNSON, H. P.; CHASE, R. L.; SCOTT, S. D.; TUNNICLIFFE, VERENA; HAMMOND, S. R., 1983, Structural control of hydrothermal vents and sulfide structures on the 'Axial seamount,' Juan de Fuca [abstract].

DELANEY, J. R.; MCDUFF, R. E.; LUPTON, J. E., 1984, Hydrothermal fluid temperatures of 400-degrees C on the Endeavour segment, northern Juan de Fuca [abstract].

FEELY, R. A.; MASSOTH, G. J.; CURL, H. C., JR.; BOUDREAU, M. L.; MCMURTRY, G. M., 1984, Composition of white and black smoker particulates from active vents on the Juan de Fuca and Endeavor Ridges [abstract].

HAMMOND, S. R.; LEE, J. S.; MALAHOFF, ALEXANDER; FEELY, R. A.; EMBLEY, R. W.; FRANKLIN, J., 1984, Discovery of high-temperature hydrothermal venting on the Endeavour segment of the Juan de Fuca Ridge [abstract].

KADKO, D.; KOSKI, R. A.; BOUSE, R. M.; DELANEY, J. R., 1983, An estimate of hydrothermal fluid residence times and vent growth rates based on 210Pb/Pb ratios of a sulphide sample from the Juan de Fuca Ridge [abstract].

KADKO, D.; LUPTON, J. E., 1984, Radon-222 and temperature measurements on the Endeavor Ridge [abstract].

KADKO, D.; LUPTON, J. E.; COLLIER, R.; LILLEY, M. D.; PAK, H., 1986, Endeavour Ridge hydrothermal plume study [abstract].

KENNEDY, B. M., 1985, Noble gases in vent fluids from the Juan de Fuca Ridge [abstract].

LEINEN, MARGARET, 1985, Mineralogy of hydrothermal precipitates within and near active vents on the Juan de Fuca Ridge and Explorer Ridge [abstract].

LISTER, C. R. B., 1972, repr. 1980, On the thermal balance of a mid-ocean ridge.

LUPTON, J. E., 1985, Effluent plume over the Endeavour Ridge hydrothermal site, northeast Pacific [abstract].

LUPTON, J. E., 1985, Vertical transport of deep ocean water by submarine hydrothermal vents [abstract].

LUPTON, J. E.; DELANEY, J. R.; JOHNSON, M. P.; TIVEY, M., 1984, Water-column temperature anomalies near an active deep-sea hydrothermal vent [abstract].

MALAHOFF, ALEXANDER, 1985, Hydrothermal vents and polymetallic sulfides of the Galapagos and Gorda/Juan de Fuca Ridge systems and of submarine volcanoes.

MALAHOFF, ALEXANDER; EMBLEY, R. W.; HAMMOND, S. R., 1983, Submarine volcanism and hydrothermal activity along the northern end of the Juan de Fuca Ridge axis [abstract].

MASSOTH, G. J.; BAKER, E. T.; COWEN, J. P.; ROE, K. K.; APPRIOU, P. Y., 1985, The geochemical diversity of Juan de Fuca Ridge hydrothermal plumes [abstract].

MASSOTH, G. J.; FEELY, R. A.; CURL, H. C., JR., 1982, Hydrothermal manganese over the Juan de Fuca and Gorda Ridges [abstract].

MASSOTH, G. J.; FEELY, R. A.; CURL, H. C., JR.; BAKER, E. T., 1983, The geochemistry of particulate hydrothermal plumes over the Juan de Fuca Ridge [abstract].

MCDUFF, R. E.; EDMOND, J. M.; JUNIPER, K.; LUPTON, J. E.; SCOTT, S. D., 1983, Chemistry of hydrothermal waters, 'Axial seamount,' Juan de Fuca Ridge [abstract].

MCDUFF, R. E.; LUPTON, J. E.; KADKO, D.; LILLEY, M. D., 1984, Chemistry of hydrothermal fluids, Endeavor Ridge, northeast Pacific [abstract].

MCKELVEY, V. E., 1982, Subsea polymetallic sulfide deposits.

MCMURTRY, G. M.; MALAHOFF, ALEXANDER; FEELY, R. A.; MASSOTH, G. J., 1984, Geology and chemistry of hydrothermal nontronite deposits from the Juan de Fuca Ridge [abstract].

MURNANE, RICHARD; CLAGUE, D. A., 1982, Nontronite from an immature hydrothermal system on the Juan de Fuca Ridge [abstract].

OAKMAN, M. R.; LEINEN, MARGARET, 1985, Preliminary studies of oxidized sulfide deposits from the Endeavour segment, Juan de Fuca Ridge, and Explorer Ridge [abstract].

ROTH, SHARON; DYMOND, JACK, 1985, Hydrothermal particle flux--Endeavour Ridge Phase I [abstract].

SHANKS, W. C., III; SEYFRIED, W. E., JR., 1985, Sulfur isotopic fractionation, anhydrite dissolution, and sulfate reduction--Juan de Fuca Ridge and other seafloor hydrothermal vent systems [abstract].

THOMSON, R. E.; MIDDLETON, J. H., 1985, Hydrothermal plumes on the Endeavour Ridge --An experiment.

TIVEY, M. K.; DELANEY, J. R., 1985, Controls on the distribution and size of hydrothermal vent structures on the Endeavour segment, Juan de Fuca Ridge [abstract].

TIVEY, M. A.; JOHNSON, H. P., 1985, A near-bottom magnetic survey over an active hydrothermal vent field--Northern Juan de Fuca Ridge [abstract].

VAN DER VOORT, J. L.; MIELKE, J. E., 1982, Report on marine hydrothermal metal deposits.

WEAVER, C. S.; MICHAELSON, C. A., 1983, Segmentation of the Juan de Fuca plate and volcanism in the Cascade Range [abstract].

WOLFGRAM, P. A.; EDWARDS, R. N.; LAW, L. K.; BONE, M. N., 1984, Electrical resistivity sounding over sulfides on the northern Juan de Fuca Ridge--The sea floor MOSES experiments [abstract].

IRON

LASMANIS, RAYMOND, 1983, Offshore metal deposits--Washington and Oregon.

PRICE, N. B.; CALVERT, S. E., 1970, Compositional variation in Pacific Ocean ferromanganese nodules and its relationship to sediment accumulation rates.

SKORNYAKOVA, I. S., 1974, repr. 1980, Dispersed iron and manganese in Pacific Ocean sediments.

JUAN DE FUCA ABYSSAL PLAIN

CARSON, BOBB, 1971, Stratigraphy and depositional history of Quaternary sediments in northern Cascade Basin and Juan de Fuca abyssal plain, northeast Pacific Ocean.*

CARSON, BOBB; ARCARO, N. P., 1983, Control of clay-mineral stratigraphy by selective transport in late Pleistocene-Holocene sediments of northern Cascadia Basin-Juan de Fuca abyssal plain--Implications for studies of clay-mineral provenance.

STOKKE, P. R.; CARSON, BOBB, 1974, Clay mineralogy of Cascadia Basin-Juan de Fuca abyssal plain (northeast Pacific Ocean) Quaternary sediments [abstract].

JUAN DE FUCA CANYON

BELL, G. L., 1967, Big potential oil basins offshore from west coast.

CARSON, BOBB; MCMANUS, D. A., 1968, Juan de Fuca submarine canyon--A study of continental slope development [abstract].

CARSON, BOBB; MCMANUS, D. A., 1969, Seismic reflection profiles across Juan de Fuca canyon.

SHEPARD, F. P.; DILL, R. F., 1966, repr. 1976, Summary characteristics and dimensions of submarine canyons.

JUAN DE FUCA PLATE - BATHYMETRY

TILLSON, D. D.; GLASS, C. E.; KIEL, W. A., 1985, Use of synthetic shaded relief images for engineering geologic interpretation of geophysical data [abstract].

JUAN DE FUCA PLATE - EARTHQUAKES AND SEISMOLOGY

ADAMS, JOHN, 1984, Active deformation of the Pacific Northwest continental margin.

CROSSON, R. S., 1986, Earthquake hazard investigations in the Pacific Northwest.

CROSSON, R. S., 1986, Where is the subducting slab beneath the Pacific Northwest? [abstract].

CROSSON, R. S.; CROSSON, E. L., 1986, Preliminary analysis of Juan de Fuca plate seismicity using the Washington Regional Seismograph Network [abstract].

HEATON, T. H.; HARTZELL, S. H., 1985, Northwest U.S. subduction zone risk assessment.

HEATON, T. H.; HARTZELL, S. H., 1986, Source characteristics of hypothetical subduction earthquakes in the northwestern United States.

ROGERS, G. C., COMPILER, 1979, Seismicity to the end of 1977.

ROGERS, G. C., 1983, Seismotectonics of the Juan de Fuca plate subduction zone [abstract].

SCHWARTZ, D. P., 1986, Subduction zone earthquakes in the Pacific Northwest--Evaluating the potential--Thoughts for discussion at the Seattle workshop.

SPENCE, WILLIAM, 1986, Seismicity and tectonics.

TABER, J. J., JR.; SMITH, S. W., 1985, Seismicity and focal mechanisms associated with the subduction of the Juan de Fuca plate beneath the Olympic Peninsula, Washington.

TABER, J. J., JR.; WEAVER, C. S., 1983, Seismicity of the Olympic Peninsula, Washington [abstract].

WEAVER, C. S., 1985, Geothermal seismotectonic studies.

WEAVER, C. S.; MICHAELSON, C. A., 1985, Seismicity and volcanism in the Pacific Northwest--Evidence for the segmentation of the Juan de Fuca Plate.

JUAN DE FUCA PLATE - GEOPHYSICS

CLOWES, R. M.; SPENCE, G. D.; WALDRON, D. A.; ELLIS, R. M., 1983, VISP II--Lithospheric structure across the Juan de Fuca/America plate margin [abstract].

NISHIMURA, C. E.; WILSON, D. S.; HEY, R. N., 1984, Pole of rotation analysis of present-day Juan de Fuca plate motion.

ROGERS, G. C., 1983, Seismotectonics of the Juan de Fuca plate subduction zone [abstract].

ROGERS, G. C.; RIDDIHOUGH, R. P., 1978, Base map for geoscience studies of the Juan de Fuca Plate; progress report [abstract].

WHITE, W. R. H.; WALDRON, D. A.; CLOWES, R. M., 1983, VISP I--Crustal structure of the oceanic Juan de Fuca plate [abstract].

JUAN DE FUCA PLATE - GEOPHYSICS - GRAVITY SURVEYS

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

RIDDIHOUGH, R. P., 1983, Juan de Fuca Plate map--Gravity [abstract].

JUAN DE FUCA PLATE - GEOPHYSICS - MAGNETIC SURVEYS

CHEN, J.; NIENABER, W.; DOSSO, H. W., 1986, Electromagnetic induction in the Pacific north-west coastal region [abstract].

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

RIDDIHOUGH, R. P., 1984, Recent movements of the Juan de Fuca plate system.

RIDDIHOUGH, R. P., COMPILER; PRICE, W.; FRANKLIN, R., PREPARERS, 1984, Magnetic anomalies.

JUAN DE FUCA PLATE - GEOPHYSICS - RESISTIVITY SURVEYS

CHEN, J.; NIENABER, W.; DOSSO, H. W., 1986, Electromagnetic induction in the Pacific north-west coastal region [abstract].

JUAN DE FUCA PLATE - GEOPHYSICS - SEISMIC SURVEYS

AU, D.; CLOWES, R. M., 1979, Crustal structure near the Juan de Fuca and Explorer plate boundary from seismic refraction data [abstract].

BARNARD, W. D., 1978, The Washington continental slope--Quaternary tectonics and sedimentation.

CLOWES, R. M.; BRANDON, M. T.; GREEN, A. G.; YORATH, C. J.; SUTHERLAND BROWN, A.; KANASEWICH, E. R.; SPENCER, C., 1987, LITHOPROBE--Southern Vancouver Islands--Cenozoic subduction complex imaged by deep seismic reflections.

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

ELLIS, R. M.; SPENCE, G. D.; CLOWES, R. M.; WALDRON, D. A.; JONES, I. F.; GREEN, A. G.; FORSYTH, D. A.; MAIR, J. A.; BERRY, M. J.; AND OTHERS, 1983, The Vancouver Island seismic project--A CO-CRUST onshore-offshore study of a convergent margin.

MICHAELSON, C. A.; WEAVER, C. S., 1986, Upper mantle structure from teleseismic P wave arrivals in Washington and northern Oregon.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

TABER, J. J., JR.; LEWIS, B. T. R., 1986, Crustal structure of the Washington continental margin from refraction data.

TABER, J. J., JR.; SMITH, S. W., 1985, Seismicity and focal mechanisms associated with the subduction of the Juan de Fuca plate beneath the Olympic Peninsula, Washington.

WALCK, M. C., 1985, The upper mantle beneath the north-east Pacific rim--A comparison with the Gulf of California.

JUAN DE FUCA PLATE - GEOPHYSICS - THERMAL SURVEYS

HYNDMAN, R. D., COMPILER; PRICE, W., PREPARER, 1983, Geothermal heat flux.

RIDDIHOUGH, R. P.; ROGERS, G. C.; HYNDMAN, R. D., 1985, Juan de Fuca Plate map series --Recent plate motions, geothermal heat flux, magnetic anomalies [abstract].

SCHEIDEGGER, K. F., COMPILER, 1984, Thermal evolution of the Juan de Fuca Plate.

JUAN DE FUCA PLATE - GEOPHYSICS - TILT SURVEYS

ADAMS, JOHN, 1984, Active deformation of the Pacific Northwest continental margin.

JUAN DE FUCA PLATE - MAPS - GEOLOGIC

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.;

MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

JUAN DE FUCA PLATE - MINERAL RESOURCES - PETROLEUM EXPLORATION

KLITGORD, K. D.; WATKINS, J. S., PANEL CHAIRMEN, 1984, Geologic studies related to oil and gas development in the EEZ--West Coast Pacific margin.

JUAN DE FUCA PLATE - SEDIMENTS

BERGLUND, P. L.; CARSON, BOBB, 1978, Development of spaced cleavage in deep-sea mudstone [abstract].

CARSON, BOBB, 1974, Tectonically induced consolidation of deep-sea sediments at a subducting continental margin [abstract].

CARSON, BOBB, 1975, Carbonate dissolution in "offscraped" deep-sea sediments--An integral part of the subduction process? [abstract].

CARSON, BOBB, 1977, Tectonically induced deformation of deep-sea sediments off Washington and northern Oregon--Mechanical consolidation.

COUCH, R. W.; CONNARD, GERRY; KIENLE, C. R., 1980, Sediment thicknesses and tectonic lineations of the northern Juan de Fuca plate and Washington continental margin [abstract].

DAVIS, E. E.; YORATH, C. J.; HYNDMAN, R. D.; CURRIE, R. G.; BORNHOLD, B. D.; BRANDON, M. T.; CLOWES, R. M., 1986, The deformation front of the northern Cascadia subduction zone in plan and cross section [abstract].

KULM, L. D.; FOWLER, G. A., 1974, Cenozoic sedimentary framework of the Gorda-Juan de Fuca Plate and adjacent continental margin --A review.

JUAN DE FUCA PLATE - STRUCTURES AND TECTONICS

AU, D.; CLOWES, R. M., 1979, Crustal structure near the Juan de Fuca and Explorer plate boundary from seismic refraction data [abstract].

BERGLUND, P. L.; CARSON, BOBB, 1978, Development of spaced cleavage in deep-sea mudstone [abstract].

CLOWES, R. M.; BRANDON, M. T.; GREEN, A. G.; YORATH, C. J.; SUTHERLAND BROWN, A.; KANASEWICH, E. R.; SPENCER, C., 1987, LITHOPROBE--Southern Vancouver Islands--Cenozoic subduction complex imaged by deep seismic reflections.

COWAN, D. S., 1984, Continent-ocean transect B3--Active spreading, sediment offscraping, and accretionary tectonics, Juan de Fuca Ridge to North Cascades [abstract].

CROSSON, R. S., 1986, Earthquake hazard investigations in the Pacific Northwest.

CROWELL, J. C., 1983, Active tectonism along the continental margin of the conterminous United States [abstract].

CROWELL, J. C., 1986, Active tectonics along the western continental margin of the conterminous United States.

DRUMMOND, K. J.; AND OTHERS, 1981, Plate-tectonic map of the circum-Pacific region, northeast quadrant.

ELLIS, R. M.; SPENCE, G. D.; CLOWES, R. M.; WALDRON, D. A.; JONES, I. F.; GREEN, A. G.; FORSYTH, D. A.; MAIR, J. A.; BERRY, M. J.; AND OTHERS, 1983, The Vancouver Island seismic project--A CO-CRUST onshore-offshore study of a convergent margin.

HEY, R. N.; WILSON, D. S., 1982, Propagating rift explanation for the tectonic evolution of the northeast Pacific--The pseudomovie.

KULM, L. D.; EMBLEY, R. W., 1983, Contrasting tectonic-sedimentologic styles along the convergent Juan de Fuca plate boundary [abstract].

KULM, L. D.; FOWLER, G. A., 1974, Cenozoic sedimentary framework of the Gorda-Juan de Fuca Plate and adjacent continental margin --A review.

NISHIMURA, C. E.; WILSON, D. S.; HEY, R. N., 1984, Pole of rotation analysis of present-day Juan de Fuca plate motion.

RIDDIHOUGH, R. P., 1978, The Juan de Fuca Plate.

RIDDIHOUGH, R. P., 1983, (?), Recent plate motions.

RIDDIHOUGH, R. P.; BECK, M. E., JR.; CHASE, R. L.; DAVIS, E. E.; HYNDMAN, R. D.; JOHNSON, S. H.; ROGERS, G. C., 1983, Geodynamics of the Juan de Fuca Plate.

RIDDIHOUGH, R. P.; HYNDMAN, R. D., 1977, The recent interaction between continent and ocean floor in the Pacific Northwest [abstract].

RIDDIHOUGH, R. P.; ROGERS, G. C.; HYNDMAN, R. D., 1985, Juan de Fuca Plate map series --Recent plate motions, geothermal heat flux, magnetic anomalies [abstract].

ROGERS, G. C., COMPILER, 1979, Fault plane solutions.

ROGERS, G. C., 1985, Variation in Cascade volcanism with margin orientation.*

SCHEIDEGGER, K. F., COMPILER, 1984, Thermal evolution of the Juan de Fuca Plate.

SPENCE, WILLIAM, 1986, Seismicity and tectonics.

WALCK, M. C., 1985, The upper mantle beneath the north-east Pacific rim--A comparison with the Gulf of California.

WEAVER, C. S., 1985, Combined regional seismotectonics and the extent of Cenozoic volcanism--An improved first-order geothermal assessment of the Cascade Range.

WHITE, W. R. H.; WALDRON, D. A.; CLOWES, R. M., 1983, VISP I--Crustal structure of the oceanic Juan de Fuca plate [abstract].

WILSON, D. S.; HEY, R. N.; NISHIMURA, C. E., 1984, Propagation as a mechanism of reorientation of the Juan de Fuca Ridge.*

JUAN DE FUCA PLATE - SUBDUCTION

ACHARYA, HEMENDRA, 1981, Juan de Fuca plate --Aseismic subduction at 1.8 cm/yr.

ADAMS, JOHN, 1984, Active deformation of the Pacific Northwest continental margin.

CARSON, BOBB, 1974, Tectonically induced consolidation of deep-sea sediments at a subducting continental margin [abstract].

CARSON, BOBB, 1975, Carbonate dissolution in "offscraped" deep-sea sediments--An integral part of the subduction process? [abstract].

CARSON, BOBB, 1977, Tectonically induced deformation of deep-sea sediments off Washington and northern Oregon--Mechanical consolidation.

CHEN, J.; NIENABER, W.; DOSSO, H. W., 1986, Electromagnetic induction in the Pacific north-west coastal region [abstract].

CLOWES, R. M.; BRANDON, M. T.; GREEN, A. G.; YORATH, C. J.; SUTHERLAND BROWN, A.; KANASEWICH, E. R.; SPENCER, C., 1987, LITHOPROBE--Southern Vancouver Islands--Cenozoic subduction complex imaged by deep seismic reflections.

COUCH, R. W.; CONNARD, GERRY; KIENLE, C. R., 1980, Sediment thicknesses and tectonic lineations of the northern Juan de Fuca plate and Washington continental margin [abstract].

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

CROSSON, R. S., 1986, Earthquake hazard investigations in the Pacific Northwest.

CROSSON, R. S., 1986, Where is the subducting slab beneath the Pacific Northwest? [abstract].

DAVIS, E. E.; YORATH, C. J.; HYNDMAN, R. D.; CURRIE, R. G.; BORNHOLD, B. D.; BRANDON, M. T.; CLOWES, R. M., 1986, The deformation front of the northern Cascadia subduction zone in plan and cross section [abstract].

DOSSO, H. W.; NIENABER, W., 1985, Model study of EM induction in the Juan de Fuca plate region [abstract].

DRAKE, E. T., 1981, Robert Hooke and the foundation of geology--A comparison of Steno and Hooke and the Hooke imprint on the Huttonian theory; The tectonic evolution of the Oregon continental margin--Rotation of segment boundaries and possible space-time relationships in the central high Cascades.*

HEATON, T. H.; HARTZELL, S. H., 1985, Northwest U.S. subduction zone risk assessment.

HEATON, T. H.; HARTZELL, S. H., 1986, Source characteristics of hypothetical subduction earthquakes in the northwestern United States.

MCWILLIAMS, R. G., 1978, Early Tertiary rifting in western Oregon-Washington.

MICHAELSON, C. A.; WEAVER, C. S., 1986, Upper mantle structure from teleseismic P wave arrivals in Washington and northern Oregon.

NISHIMURA, C. E.; WILSON, D. S.; HEY, R. N., 1981, Present-day subduction of the Juan de Fuca plate [abstract].

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

RIDDIHOUGH, R. P., 1981, Absolute motions of the Juan de Fuca plate system--Resistance to subduction? [abstract].

RIDDIHOUGH, R. P., 1984, The geometry of the subducted Juan de Fuca plate [abstract].

ROGERS, G. C., 1983, Seismotectonics of the Juan de Fuca plate subduction zone [abstract].

ROGERS, G. C., 1985, Variation in Cascade volcanism with margin orientation.*

SCHWARTZ, D. P., 1986, Subduction zone earthquakes in the Pacific Northwest--Evaluating the potential--Thoughts for discussion at the Seattle workshop.

SILVER, E. A., 1975, Tectonic setting of the continental margin off the western United States [abstract].

SPENCE, WILLIAM, 1986, Origins of stresses at the Cascadia subduction zone, U.S. Pacific Northwest [abstract].

SPENCE, WILLIAM, 1986, Seismicity and tectonics.

TABER, J. J., JR.; LEWIS, B. T. R., 1986, Crustal structure of the Washington continental margin from refraction data.

TABER, J. J., JR.; SMITH, S. W., 1985, Seismicity and focal mechanisms associated with the subduction of the Juan de Fuca plate beneath the Olympic Peninsula, Washington.

TABER, J. J., JR.; WEAVER, C. S., 1983, Seismicity of the Olympic Peninsula, Washington [abstract].

WEAVER, C. S., 1985, Geothermal seismotectonic studies.

WEAVER, C. S.; MICHAELSON, C. A., 1983, Segmentation of the Juan de Fuca plate and volcanism in the Cascade Range [abstract].

WEAVER, C. S.; MICHAELSON, C. A., 1985, Seismicity and volcanism in the Pacific Northwest--Evidence for the segmentation of the Juan de Fuca Plate.

JUAN DE FUCA PLATE - VOLCANISM

WEAVER, C. S.; MICHAELSON, C. A., 1985, Seismicity and volcanism in the Pacific Northwest--Evidence for the segmentation of the Juan de Fuca Plate.

JUAN DE FUCA RIDGE

see also

AXIAL CALDERA
AXIAL SEAMOUNT
COBB OFFSET
COBB SEAMOUNT
ENDEAVOUR RIDGE
SOUTHWEST HYDROTHERMAL VENT FIELD

DEHLINGER, PETER, 1969, Evidence regarding the development of Juan de Fuca and Gorda ridges in the northeast Pacific Ocean.

DELANEY, J. R., 1983, Studies of the Juan de Fuca Ridge.

KARSTEN, J. L., 1983, The Juan de Fuca Ridge between 48 degrees 00 minutes and 48 degrees 18 minutes N [abstract].

JUAN DE FUCA RIDGE - BASALT

DAVIS, E. E., 1982, Evidence for extensive basalt flows on the sea floor.

DELANEY, J. R.; KARSTEN, J. L.; HAMMOND, S. R., 1986, Petrology and tectonics of the Juan de Fuca Ridge [abstract].

SILVER, L. A.; DELANEY, J. R., 1983, Melting experiments on Juan de Fuca Ridge basalts--Implications for petrogenesis [abstract].

JUAN DE FUCA RIDGE - BASALT - GEOCHEMISTRY

BARR, S. M., 1974, Seamount chains formed near the crest of Juan de Fuca Ridge, northeast Pacific Ocean.

BASS, M. N., 1970, Variation of ocean ridge basalts with spreading rate [abstract].

BLANK, J. G.; DELANEY, J. R.; DES MARAIS, D. J., 1986, Carbon in basaltic glass from the Juan de Fuca Ridge [abstract].

CHURCH, S. E., 1972, Trace element abundances in ocean sediments and altered basalts --Their implications for andesite genesis [abstract].

CHURCH, S. E., 1973, The isotopic composition of lead in ocean ridge basalts and seamounts from the Juan de Fuca-Gorda Rise system [abstract].

DELANEY, J. R.; KARSTEN, J. L.; CLAGUE, D. A., 1982, Geochemistry of Juan de Fuca Ridge basaltic glasses [abstract].

DIXON, J. E.; STOLPER, EDWARD; DELANEY, J. R., 1986, Infrared spectroscopic measures of H_2O and CO_2 contents in Juan de Fuca Ridge glasses [abstract].

DYMOND, J. R., 1970, Excess argon in submarine basalt pillows.

EABY, JACQUELINE, 1982, Sr-isotopic variations along the Juan de Fuca Ridge [abstract].

EABY, JACQUELINE; CLAGUE, D. A.; DELANEY, J. R., 1984, Sr isotopic variations along the Juan de Fuca Ridge.

ENGEL, C. G.; ENGEL, A. E. J., 1963, Basalts dredged from the northeastern Pacific Ocean.

JUAN DE FUCA RIDGE - BASALT

HART, ROGER; DYMOND, JACK; LOGAN, LEWIS, 1982, Noble gas evidence for sea water interaction with residual melts along the Juan de Fuca Ridge [abstract].

HEDGE, C. E.; PETERMAN, Z. E., 1970, The strontium isotopic composition of basalts from the Gorda and Juan de Fuca Rises, northeastern Pacific Ocean.

HEGNER, ERNST; TATSUMOTO, M., 1985, Isotope variations in seamount basalts from the northeast Pacific [abstract].

KARSTEN, J. L.; DELANEY, J. R., 1985, Comparison of glass geochemistry from seamount and adjacent ridge crest lavas--Juan de Fuca Ridge [abstract].

KAY, R.; HUBBARD, N. J.; GAST, P. W., 1970, Chemical characteristics and origin of oceanic ridge volcanic rocks.

LIIAS, R. A.; RHODES, J. M., 1982, Evolution of basaltic magma along the Juan de Fuca Ridge [abstract].

LIIAS, R. A.; RHODES, J. M., 1985, Basalt heterogeneity along the Juan de Fuca Ridge [abstract].

LIIAS, R. A.; RHODES, J. M., 1985, Geochemistry and petrogenesis of basalts from the Juan de Fuca Ridge [abstract].

LIIAS, R. A.; RHODES, J. M.; DELANEY, J. R.; JOHNSON, H. P., 1981, Trace element variation along the Juan de Fuca Ridge [abstract].

LUPTON, J. E., 1982, Helium isotope variations in Juan de Fuca Ridge basalts [abstract].

MELSON, W. G.; VALLIER, T. L.; WRIGHT, T. L.; BYERLY, G. R.; NELEN, JOSEPH, 1976, Chemical diversity of abyssal volcanic glass erupted along Pacific, Atlantic, and Indian Ocean sea-floor spreading centers.

MICHAEL, P. J.; CHASE, R. L., 1985, Trace element and Sr-isotope variations in basalts from the Explorer, Dellwood and Tuzo Wilson spreading segments and seamounts, northeast Pacific [abstract].

MORGAN, C.; RHODES, J. M., 1985, Geochemistry of basalts from the Cobb "hot spot" astride the Juan de Fuca Ridge [abstract].

MULLEN, E. D., 1983, MnO/TiO2/P2O5--A minor element discriminant for basaltic rocks of oceanic environments and its implications for petrogenesis.

SOMMER, M. A.; GIBSON, E. K., 1985, Volatile concentrations of submarine glasses from the Juan de Fuca Ridge [abstract].

YEATS, R. S.; MATHEZ, E. A., 1976, Decorated vesicles in deep-sea basalt glass, eastern Pacific.

JUAN DE FUCA RIDGE - BASALT - GEOPHYSICS

CHRISTENSEN, N. I., 1970, Compressional-wave velocities in basalts from the Juan de Fuca Ridge.

JUAN DE FUCA RIDGE - BATHYMETRY

CONNARD, GERRY; COUCH, R. W.; PITTS, G. S.; TROSETH, S., COMPILERS, 1984, Bathymetry and topography.

DAVIS, E. E.; CURRIE, R. G.; RIDDIHOUGH, R. P.; SAWYER, B. S., 1985, A new look at the Juan de Fuca Ridge--High-resolution bathymetry and side-scan acoustic imagery.

DAVIS, E. E.; CURRIE, R. G.; VILLINGER, H.; GOODFELLOW, W. D.; HUSSONG, D. M.; RYAN, W. B. F.; HAMMOND, S. R., 1986, Regional acoustic imagery and detailed geophysical studies of northern Juan de Fuca Ridge [abstract].

DUNCAN, J. R.; MORGAN, W. J.; MELSON, W. G.; SIMKIN, THOMAS; BANKS, HAROLD; GOTTFRIED, DAVID, 1969, Juan de Fuca ridge bathymetry--Independent evidence of sea-floor spreading [abstract].

GERIN, MARYBETH; STEVENSON, A. J., COMPILERS, 1979, Equal-area base map of the north Pacific Ocean, northeast section; Albers equal-area projection.

HAMMOND, S. R.; KARSTEN, J. L.; DAVIS, E. E.; CURRIE, R. G.; MALAHOFF, ALEXANDER, 1983, Bathymetric and hydrothermal characterization of the northernmost Juan de Fuca Ridge [abstract].

HAMMOND, S. R.; MALAHOFF, ALEXANDER; HEY, R. N., 1981, Detailed bathymetric evidence for recent rifting at the Cobb propagator, Juan de Fuca Ridge [abstract].

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

MCNUTT, MARCIA, 1979, Compensation of oceanic topography--An application of the response function technique to the Surveyor area.

JUAN DE FUCA RIDGE - EARTHQUAKES AND SEISMOLOGY

LEE, K., 1977, Earthquake swarms near the northern end of the Juan de Fuca Ridge [abstract].

TOBIN, D. G.; SYKES, L. R., 1968, Seismicity and tectonics of the northeast Pacific Ocean.*

WAHLSTROM, R.; ROGERS, G. C.; ELLIS, R. M., 1987, Seismicity reassessment and earthquake focal mechanisms for the northern Juan de Fuca Ridge system [abstract].

JUAN DE FUCA RIDGE - GEOCHEMISTRY

see also

JUAN DE FUCA RIDGE - BASALT - GEOCHEMISTRY
JUAN DE FUCA RIDGE - SEDIMENTS - GEOCHEMISTRY

ADSHEAD, J. D.; BORNHOLD, B. D.; DAVIS, E. E., 1985, Geochemistry of deposits from mound and collapse structures near Juan de Fuca Ridge [abstract].

CHEN, J. H.; WASSERBURG, G. H., 1985, U, Th and Pb isotopes in hydrothermal fluids from the Juan de Fuca Ridge [abstract].

DELANEY, J. R.; JOHNSON, H. P.; KARSTEN, J. L., 1981, The Juan de Fuca Ridge--Hot spot --Propagating rift system--New tectonic, geochemical, and magnetic data [abstract].

DELANEY, J. R.; JOHNSON, H. P.; KINGSTON, M. J., 1983, Sulfide samples from the Juan de Fuca Ridge at 47 degrees 57' N and 129 degrees 06' W [abstract].

DELANEY, J. R.; MCDUFF, R. E.; LUPTON, J. E., 1984, Hydrothermal fluid temperatures of 400-degrees C on the Endeavour segment, northern Juan de Fuca [abstract].

JOHNSON, H. P.; MERRILL, R. T., 1972, Low temperature oxidation of a titanomagnetite [abstract].

JONES, C. J.; JOHNSON, H. P.; DELANEY, J. R., 1981, Distribution of hydrothermal manganese over the Juan de Fuca Ridge.

KADKO, D.; KOSKI, R. A.; BOUSE, R. M.; DELANEY, J. R., 1983, An estimate of hydrothermal fluid residence times and vent growth rates based on 210Pb/Pb ratios of a sulphide sample from the Juan de Fuca Ridge [abstract].

KADKO, D.; LUPTON, J. E., 1984, Radon-222 and temperature measurements on the Endeavor Ridge [abstract].

KENNEDY, B. M., 1985, Noble gases in vent fluids from the Juan de Fuca Ridge [abstract].

LEINEN, MARGARET, 1985, Mineralogy of hydrothermal precipitates within and near active vents on the Juan de Fuca Ridge and Explorer Ridge [abstract].

LUPTON, J. E., 1985, Effluent plume over the Endeavour Ridge hydrothermal site, northeast Pacific [abstract].

LUPTON, J. E.; JOHNSON, H. P.; DELANEY, J. R., 1981, Hydrothermal helium-3 on the Juan de Fuca Ridge [abstract].

MASSOTH, G. J.; BAKER, E. T.; COWEN, J. P.; ROE, K. K.; APPRIOU, P. Y., 1985, The geochemical diversity of Juan de Fuca Ridge hydrothermal plumes [abstract].

MASSOTH, G. J.; FEELY, R. A.; CURL, H. C., JR.; BAKER, E. T., 1983, The geochemistry of particulate hydrothermal plumes over the Juan de Fuca Ridge [abstract].

MCDUFF, R. E.; EDMOND, J. M.; JUNIPER, K.; LUPTON, J. E.; SCOTT, S. D., 1983, Chemistry of hydrothermal waters, 'Axial seamount,' Juan de Fuca Ridge [abstract].

MCDUFF, R. E.; LUPTON, J. E.; KADKO, D.; LILLEY, M. D., 1984, Chemistry of hydrothermal fluids, Endeavor Ridge, northeast Pacific [abstract].

OAKMAN, M. R.; LEINEN, MARGARET, 1985, Preliminary studies of oxidized sulfide deposits from the Endeavour segment, Juan de Fuca Ridge, and Explorer Ridge [abstract].

ROTH, SHARON; DYMOND, JACK, 1985, Hydrothermal particle flux--Endeavour Ridge Phase I [abstract].

SCHILLING, J.-G.; COUSENS, B.; CHASE, R. L.; DELANEY, J. R., 1982, Juan de Fuca-Explorer Ridge--Rare earth contents [abstract].

SHANKS, W. C., III; SEYFRIED, W. E., JR., 1985, Sulfur isotopic fractionation, anhydrite dissolution, and sulfate reduction--Juan de Fuca Ridge and other seafloor hydrothermal vent systems [abstract].

SINTON, J. M.; CHRISTIE, D. M., 1982, Geochemical anomalies of the Blanco and Cobb propagating rifts--An evolutionary model [abstract].

TATSUMOTO, M.; HINKLEY, T. K.; HEGNER, ERNST, 1985, U-Th-Pb, Rb-Sr, and Sm-Nd systematics of ALVIN dive samples from the Juan de Fuca Ridge [abstract].

JUAN DE FUCA RIDGE - GEOMORPHOLOGY

DAVIS, E. E.; CURRIE, R. G.; RIDDIHOUGH, R. P.; RYAN, W. B. F.; KASTENS, K.; HUSSONG, D. M.; HAMMOND, S. R.; MALAHOFF, ALEXANDER, 1984, Geological mapping of the northern Juan de Fuca and Explorer Ridges using SeaMARC I, SeaMARC II, and Seabeam acoustic imaging [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1984, Sonograph mosaic of the Oregon-Washington EEZ [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1985, Geomorphic features of Oregon-Washington project EEZ-SCAN [abstract].

KARSTEN, J. L.; HAMMOND, S. R.; DAVIS, E. E.; CURRIE, R. G., 1986, Detailed geomorphology and neotectonics of the Endeavour Segment, Juan de Fuca Ridge--New results from Seabeam swath mapping.

LEE, J. S.; HAMMOND, S. R., 1984, Morphology of Heck and Heckle seamount chains, Juan de Fuca Ridge [abstract].

JUAN DE FUCA RIDGE - GEOPHYSICS

ANONYMOUS, 1981, Sea-floor geology off western Canada.

CURRIE, R. G.; DAVIS, E. E.; HAMMOND, S. R.; HUSSONG, D. M.; KARSTEN, J. L.; MALAHOFF, ALEXANDER; RIDDIHOUGH, R. P.; SEEMANN, D. A., 1984, Co-operative systematic surveys over the northern Juan de Fuca Ridge system, 1983--A progress report [abstract].

DAVIS, E. E., 1975, The northern Juan de Fuca Ridge--A geophysical investigation of an active sea floor spreading center.*

DAVIS, E. E.; CURRIE, R. G.; HUSSONG, D. M.; RENARD, V.; KOSALOS, J., 1983, High altitude side-scan imagery over the northern Juan de Fuca Ridge [abstract].

DEHLINGER, PETER; COUCH, R. W., 1969, Synthesis of geophysical results in the Juan de Fuca and Gorda Ridge areas (northeast Pacific Ocean) [abstract].

DEHLINGER, PETER; COUCH, R. W.; MCMANUS, D. A.; GEMPERLE, MICHAEL, 1970, Northeast Pacific structure.

GARDNER, J. V.; CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G., 1986, Sonograph mosaic of U.S. west coast Exclusive Economic Zone [abstract].

HAMMOND, S. R.; MALAHOFF, ALEXANDER; HEY, R. N., 1981, Detailed bathymetric evidence for recent rifting at the Cobb propagator, Juan de Fuca Ridge [abstract].

HAMPTON, M. A.; CACCHIONE, D. A.; DRAKE, D. E.; KARL, N. H.; KENYON, N. H.; MASSON, D. G., 1986, GLORIA mosaic of west coast U.S. Exclusive Economic Zone, northern sector [abstract].

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1985, Geomorphic features of Oregon-Washington project EEZ-SCAN [abstract].

HOLMES, M. L.; GARDNER, J. V.; JOHNSON, H. P.; CAMPBELL, J. F.; CARLSON, P.; EDWARDS, B.; KARL, H. A., 1984, SeaMARC II studies of the Juan de Fuca and Gorda Ridges [abstract].

INTERNATIONAL SYMPOSIUM ON THE ENGINEERING PROPERTIES OF SEA-FLOOR SOILS AND THEIR GEOPHYSICAL IDENTIFICATION, 1971, Proceedings.

JOHNSON, H. P.; DELANEY, J. R., 1980, Interaction of a hot spot and a mid-ocean ridge--The Juan de Fuca Ridge crest [abstract].

JOHNSON, H. P.; KARSTEN, J. L.; DELANEY, J. R.; DAVIS, E. E.; CURRIE, R. G.; CHASE, R. L., 1983, A detailed study of the Cobb offset of the Juan de Fuca Ridge--Evolution of a propagating rift.

JOHNSON, H. P.; VANCE, T. C.; DELANEY, J. R.; KARSTEN, J. L., 1982, Characterization of the symmetrical and offset portions of the Juan de Fuca Ridge between 44 degrees N and 47 degrees N [abstract].

KARSTEN, J. L.; JOHNSON, H. P.; DELANEY, J. R.; AND OTHERS, 1982, A detailed study of the Cobb offset of the Juan de Fuca Ridge--Evolution of a propagating rift [abstract].

KARSTEN, J. L.; HAMMOND, S. R.; DAVIS, E. E.; CURRIE, R. G., 1986, Detailed geomorphology and neotectonics of the Endeavour Segment, Juan de Fuca Ridge--New results from Seabeam swath mapping.

MALAHOFF, ALEXANDER; EMBLEY, R. W.; HAMMOND, S. R., 1982, A seabeam study of the Juan de Fuca and Gorda Ridge axial rift processes [abstract].

MALAHOFF, ALEXANDER; EMBLEY, R. W.; HAMMOND, S. R.; WYAN, W.; CRANE, KATHLEEN, 1982, Juan de Fuca and Gorda Ridge axial ridge morphology and tectonics from combined SEABEAM and SEA MARC data [abstract].

MALAHOFF, ALEXANDER; RIDDIHOUGH, R. P., 1984, Tectonics of the Explorer Ridge and Sovanco fracture zone, N.E. Pacific Ocean [abstract].

MCCLAIN, K. J., 1981, A geophysical study of accretionary processes on the Washington continental margin.*

THE MERGE GROUP (KARSTEN, J. L.; DELANEY, J. R.; JOHNSON, P.; GOLDFARB, M.; KELLEY, D.; MCDUFF, R. E.; TIVEY, M. K.; TIVEY, M.; DYMOND, JACK; AND OTHERS), 1984, Regional setting and local character of a hydrothermal field/sulfide deposit on the Endeavor segment of the Juan de Fuca Ridge [abstract].

SAWYER, B. S.; RIDDIHOUGH, R. P.; DAVIS, E. E.; CURRIE, R. G., 1984, Sidelit and perspective imagery of the Juan de Fuca and Explorer Ridges [abstract].

WILSON, D. S.; HEY, R. N.; NISHIMURA, C. E., 1984, Propagation as a mechanism of ridge reorientation in the Juan de Fuca area [abstract].*

YORATH, C. J.; CURRIE, R. G.; DAVIS, E. E.; RIDDIHOUGH, R. P., 1984, Exploring Juan de Fuca Ridge system [abstract].

JUAN DE FUCA RIDGE - GEOPHYSICS - ACOUSTIC SURVEYS

DAVIS, E. E.; CURRIE, R. G.; RIDDIHOUGH, R. P.; RYAN, W. B. F.; KASTENS, K.; HUSSONG, D. M.; HAMMOND, S. R.; MALAHOFF, ALEXANDER, 1984, Geological mapping of the northern Juan de Fuca and Explorer Ridges using SeaMARC I, SeaMARC II, and Seabeam acoustic imaging [abstract].

DAVIS, E. E.; CURRIE, R. G.; RIDDIHOUGH, R. P.; SAWYER, B. S., 1985, A new look at the Juan de Fuca Ridge--High-resolution bathymetry and side-scan acoustic imagery.

DAVIS, E. E.; CURRIE, R. G.; VILLINGER, H.; GOODFELLOW, W. D.; HUSSONG, D. M.; RYAN, W. B. F.; HAMMOND, S. R., 1986, Regional acoustic imagery and detailed geophysical studies of northern Juan de Fuca Ridge [abstract].

EEZ-SCAN 84 SCIENTIFIC STAFF, 1985, MV Farnella cruises 1/84 to 4/84, 26 April to 15 August 1984 GLORIA studies of the Exclusive Economic Zone off the western United States between 30 degrees 30 minutes and 48 degrees 30 minutes N.

HAMPTON, M. A.; KARL, H. A.; KENYON, N. H., 1984, Sonograph mosaic of the Oregon-Washington EEZ [abstract].

JOHNSON, H. P.; HOLMES, M. L.; GARDNER, J. V.; CAMPBELL, J. F., 1984, A detailed side-scan sonar study of a propagating rift--SeaMARC II on the northern Juan de Fuca Ridge [abstract].*

JUAN DE FUCA RIDGE - GEOPHYSICS - GRAVITY SURVEYS

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

DEHLINGER, PETER; COUCH, R. W., 1971, Gravity investigations west of the coasts of Oregon, Washington, and northern California [abstract].

ELVERS, D. J.; WALTON, FRED; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO, 1972, Deformation of the sea floor as revealed by seismic reflection and systematic gravity and magnetic measurements from the Tufts Abyssal Plain to the Washington-Oregon coast [abstract].

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

MCNUTT, MARCIA, 1979, Compensation of oceanic topography--An application of the response function technique to the Surveyor area.

PEARSON, W. C., 1975, A gravity study of the Juan de Fuca Ridge and Sovanco Fracture Zone in the northeast Pacific Ocean.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

SEIDEL, DEAN; POTTER, KENNETH; ELVERS, D. J.; IWABUCHI, YOSHIO, 1972, Systematic gravity measurements over the Gorda and Juan de Fuca Rises westward to the Surveyor and Sedna fracture zones (NOAA-IDOE, 1970) [abstract].

JUAN DE FUCA RIDGE - GEOPHYSICS - MAGNETIC SURVEYS

BARR, S. M., 1972, Geology of the northern end of Juan de Fuca Ridge and adjacent continental slope.*

BARR, S. M., 1973, The spreading centre near the northern end of Juan de Fuca Ridge [abstract].

BARR, S. M., 1974, Seamount chains formed near the crest of Juan de Fuca Ridge, northeast Pacific Ocean.

BARR, S. M.; CHASE, R. L., 1974, Geology of the northern end of Juan de Fuca Ridge and sea-floor spreading.

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

DELANEY, J. R.; JOHNSON, H. P.; KARSTEN, J. L., 1981, The Juan de Fuca Ridge--Hot spot --Propagating rift system--New tectonic, geochemical, and magnetic data [abstract].

ELVERS, D. J.; SRIVASTAVA, S. P.; POTTER, KENNETH; MORLEY, JOSEPH; SEIDEL, DEAN, 1973, Asymmetric spreading across the Juan de Fuca and Gorda rises as obtained from a detailed magnetic survey.

ELVERS, D. J.; WALTON, FRED; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO, 1972, Deformation of the sea floor as revealed by seismic reflection and systematic gravity and magnetic measurements from the Tufts Abyssal Plain to the Washington-Oregon coast [abstract].

JOHNSON, H. P.; KARSTEN, J. L.; DELANEY, J. R.; DAVIS, E. E.; CURRIE, R. G.; CHASE, R. L., 1983, A detailed study of the Cobb offset of the Juan de Fuca Ridge--Evolution of a propagating rift.

LAW, L. K.; GREENHOUSE, J. P., 1978, Ocean bottom magnetometer results from the Juan de Fuca Ridge [abstract].

LEVI, S.; RIDDIHOUGH, R. P., 1985, Why are marine magnetic anomalies suppressed over sedimented spreading centers? [abstract].

LISTER, C. R. B.; MCMANUS, D. A., 1968, Detailed geophysical study on the flank of Juan de Fuca Ridge [abstract].

MCMANUS, D. A.; HOLMES, M. L.; CARSON, BOBB; BARR, S. M., 1972, Late Quaternary tectonics, northern end of Juan de Fuca Ridge (northeast Pacific).

NOBES, D. C.; LAW, L. K., 1984, A controlled source electrical sounding of the ocean floor near the Juan de Fuca Ridge [abstract].

PAVONI, N., 1971, Interpretation of the magnetic anomalies southwest of Vancouver Island.

PAYTON, W. H.; LAVIN, P. M., 1987, Application of directional filtering to separate Juan de Fuca seamount magnetic anomalies from seafloor magnetic lineations [abstract].

PETER, GEORGE; LATTIMORE, ROBERT, 1969, Magnetic structure of the Juan de Fuca-Gorda Ridge area.

PITMAN, W. C., III, 1967, Magnetic anomalies in the Pacific and ocean floor spreading.*

PITMAN, W. C., III; HERRON, E.; HEIRTZLER, J. R., 1968, Magnetic anomalies in the Pacific and ocean floor spreading.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

TIVEY, M. A.; JOHNSON, H. P., 1985, A near-bottom magnetic survey over an active hydrothermal vent field--Northern Juan de Fuca Ridge [abstract].

VINE, F. J.; WILSON, J. T., 1965, Magnetic anomalies over a young oceanic ridge off Vancouver Island.

WILSON, D. S., 1985, Tectonic history of the Juan de Fuca Ridge from 40 million years to present [abstract].

WOLFGRAM, P. A.; EDWARDS, R. N.; LAW, L. K.; BONE, M. N., 1984, Electrical resistivity sounding over sulfides on the northern Juan de Fuca Ridge--The sea floor MOSES experiments [abstract].

JUAN DE FUCA RIDGE - GEOPHYSICS - RESISTIVITY SURVEYS

NOBES, D. C.; LAW, L. K., 1984, A controlled source electrical sounding of the ocean floor near the Juan de Fuca Ridge [abstract].

NOBES, D. C.; VILLINGER, H.; DAVIS, E. E.; LAW, L. K., 1985, Prediction of bulk physical properties at depth for middle valley sediments, Juan de Fuca Ridge [abstract].

NOBES, D. C.; VILLINGER, H.; DAVIS, E. E.; LAW, L. K., 1986, Estimation of marine sediment bulk physical properties at depth from seafloor geophysical measurements.

WOLFGRAM, P. A.; EDWARDS, R. N.; LAW, L. K.; BONE, M. N., 1984, Electrical resistivity sounding over sulfides on the northern Juan de Fuca Ridge--The sea floor MOSES experiments [abstract].

JUAN DE FUCA RIDGE - GEOPHYSICS - SEISMIC SURVEYS

CHRISTENSEN, N. I., 1970, Compressional-wave velocities in basalts from the Juan de Fuca Ridge.

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

DAVIS, E. E.; LISTER, C. R. B., 1972, Crustal structure of the Juan de Fuca Ridge [abstract].

ELVERS, D. J.; WALTON, FRED; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO, 1972, Deformation of the sea floor as revealed by seismic reflection and systematic gravity

and magnetic measurements from the Tufts Abyssal Plain to the Washington-Oregon coast [abstract].

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

JACOBSON, R. S.; BIBEE, L. D.; EMBLEY, R. W.; HAMMOND, S. R., 1987, A microseismicity survey of Axial Seamount, Juan de Fuca Ridge.

JOHNSON, H. P.; KARSTEN, J. L.; DELANEY, J. R.; DAVIS, E. E.; CURRIE, R. G.; CHASE, R. L., 1983, A detailed study of the Cobb offset of the Juan de Fuca Ridge--Evolution of a propagating rift.

KULM, L. D.; PEPER, J. S.; HOLMES, M. L., COMPILERS, 1984, Seismic reflection tracklines.

LEE, K., 1977, Earthquake swarms near the northern end of the Juan de Fuca Ridge [abstract].

MCMANUS, D. A.; HOLMES, M. L.; CARSON, BOBB; BARR, S. M., 1972, Late Quaternary tectonics, northern end of Juan de Fuca Ridge (northeast Pacific).

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

SHOR, G. G., JR.; MENARD, H. W.; RAITT, R. W., 1970, Structure of the Pacific Basin.

TOBIN, D. G.; SYKES, L. R., 1968, Seismicity and tectonics of the northeast Pacific Ocean.*

JUAN DE FUCA RIDGE - GEOPHYSICS - THERMAL SURVEYS

APPELGATE, B.; BRINKHURT, R.; BUTTERFIELD, D.; COWEN, J.; DEBEVOISE, A. E.; DECHARON, A.; EMBLEY, R. W.; FEELY, R. A.; FOX, C. G.; FRANKLIN, J.; ET AL, 1986, Pisces submersible exploration of a high-temperature vent field in the caldera of Axial Volcano, Juan de Fuca Ridge [abstract].

BAKER, E. T.; MASSOTH, G. J., 1985, Heat and particle fluxes from active vent fields on the Juan de Fuca Ridge [abstract].

CRANE, KATHLEEN; AIKMAN, FRANK, III; EMBLEY, R. W.; HAMMOND, S. R.; MALAHOFF, ALEXANDER; LUPTON, J. E., 1985, The distribution of geothermal fields on the Juan de Fuca Ridge.

DAVIS, E. E.; LISTER, C. R. B., 1977, Heat flow measured over the Juan de Fuca Ridge--Evidence for widespread hydrothermal circulation in a highly heat transportive crust.

HAMMOND, S. R.; KARSTEN, J. L.; DAVIS, E. E.; CURRIE, R. G.; MALAHOFF, ALEXANDER, 1983, Bathymetric and hydrothermal characterization of the northernmost Juan de Fuca Ridge [abstract].

HAMMOND, S. R.; MALAHOFF, ALEXANDER, 1982, Structure of the Juan de Fuca Ridge hotspot region from seabeam bathymetry [abstract].

KADKO, D.; LUPTON, J. E., 1984, Radon-222 and temperature measurements on the Endeavor Ridge [abstract].

LISTER, C. R. B.; MCMANUS, D. A., 1968, Detailed geophysical study on the flank of Juan de Fuca Ridge [abstract].

LUPTON, J. E., 1985, Vertical transport of deep ocean water by submarine hydrothermal vents [abstract].

LUPTON, J. E.; DELANEY, J. R.; JOHNSON, M. P.; TIVEY, M., 1984, Water-column temperature anomalies near an active deep-sea hydrothermal vent [abstract].

NOBES, D. C.; VILLINGER, H.; DAVIS, E. E.; LAW, L. K., 1985, Prediction of bulk physical properties at depth for middle valley sediments, Juan de Fuca Ridge [abstract].

NOBES, D. C.; VILLINGER, H.; DAVIS, E. E.; LAW, L. K., 1986, Estimation of marine sediment bulk physical properties at depth from seafloor geophysical measurements.

SCHEIDEGGER, K. F., COMPILER, 1984, Thermal evolution of the Juan de Fuca Plate.

VILLINGER, H.; DAVIS, E. E., 1984, Heat flow and bottom water temperature measurements from the Rift Valley of the northern Juan de Fuca Ridge [abstract].

VILLINGER, H.; DAVIS, E. E., 1986, Hydrothermal regime of a sedimented rift valley, northern Juan de Fuca Ridge [abstract].

JUAN DE FUCA RIDGE - GEOTHERMAL RESOURCES

CRANE, KATHLEEN; AIKMAN, FRANK, III; EMBLEY, R. W.; HAMMOND, S. R.; MALAHOFF, ALEXANDER; LUPTON, J. E., 1985, The distribution of geothermal fields on the Juan de Fuca Ridge.

RONA, P. A., 1983, Potential mineral and energy resources at submerged plate boundaries.

JUAN DE FUCA RIDGE - HYDROTHERMAL VENTS

APPELGATE, B.; BRINKHURT, R.; BUTTERFIELD, D.; COWEN, J.; DEBEVOISE, A. E.; DECHARON, A.; EMBLEY, R. W.; FEELY, R. A.; FOX, C. G.; FRANKLIN, J.; ET AL, 1986, Pisces submersible exploration of a high-temperature vent field in the caldera of Axial Volcano, Juan de Fuca Ridge [abstract].

BAKER, E. T.; MASSOTH, G. J., 1985, Heat and particle fluxes from active vent fields on the Juan de Fuca Ridge [abstract].

CANADIAN AMERICAN SEAMOUNT EXPEDITION, 1985, Hydrothermal vents on an axis seamount of the Juan de Fuca ridge.

CASM RESEARCH GROUP (CHASE, R. L.; DELANEY, J. R.; JOHNSON, H. P.; JUNIPER, S. K.; KARSTEN, J. L.; LUPTON, J. E.; SCOTT, S. D.; TUNNICLIFFE, VERENA), 1983, North caldera hydrothermal vent field, Axial seamount Juan de Fuca Ridge [abstract].

CHEN, J. H.; WASSERBURG, G. H., 1985, U, Th and Pb isotopes in hydrothermal fluids from the Juan de Fuca Ridge [abstract].

DELANEY, J. R.; KARSTEN, J. L.; JOHNSON, H. P.; CHASE, R. L.; SCOTT, S. D.; TUNNICLIFFE, VERENA; HAMMOND, S. R., 1983, Structural control of hydrothermal vents and sulfide structures on the 'Axial seamount,' Juan de Fuca [abstract].

DELANEY, J. R.; MCDUFF, R. E.; LUPTON, J. E., 1984, Hydrothermal fluid temperatures of 400-degrees C on the Endeavour segment, northern Juan de Fuca [abstract].

FEELY, R. A.; MASSOTH, G. J.; CURL, H. C., JR.; BOUDREAU, M. L.; MCMURTRY, G. M., 1984, Composition of white and black smoker particulates from active vents on the Juan de Fuca and Endeavor Ridges [abstract].

HAMMOND, S. R.; LEE, J. S.; MALAHOFF, ALEXANDER; FEELY, R. A.; EMBLEY, R. W.; FRANKLIN, J., 1984, Discovery of high-temperature hydrothermal venting on the Endeavour segment of the Juan de Fuca Ridge [abstract].

HANNINGTON, M. D.; SCOTT, S. D., 1986, Processes of sulfide accumulation in seafloor polymetallic sulfide deposits--Axial seamount and southern Explorer Ridge [abstract].

JOHNSON, H. P.; TUNNICLIFFE, VERENA, 1986, Time-lapse camera measurements of a high-temperature hydrothermal system on Axial Seamount--Juan de Fuca Ridge [abstract].

KADKO, D.; KOSKI, R. A.; BOUSE, R. M.; DELANEY, J. R., 1983, An estimate of hydrothermal fluid residence times and vent growth rates based on 210Pb/Pb ratios of a sulphide sample from the Juan de Fuca Ridge [abstract].

KADKO, D.; LUPTON, J. E., 1984, Radon-222 and temperature measurements on the Endeavor Ridge [abstract].

KADKO, D.; LUPTON, J. E.; COLLIER, R.; LILLEY, M. D.; PAK, H., 1986, Endeavour Ridge hydrothermal plume study [abstract].

KENNEDY, B. M., 1985, Noble gases in vent fluids from the Juan de Fuca Ridge [abstract].

LEINEN, MARGARET, 1985, Mineralogy of hydrothermal precipitates within and near active vents on the Juan de Fuca Ridge and Explorer Ridge [abstract].

LEWISON, M. A.; FEELY, R. A.; CURL, H. C., JR.; GEISELMAN, T. L., 1986, Composition of smoker particulates from active vents within the caldera of Axial Volcano on the Juan de Fuca Ridge [abstract].

LISTER, C. R. B., 1972, repr. 1980, On the thermal balance of a mid-ocean ridge.

LUPTON, J. E., 1985, Effluent plume over the Endeavour Ridge hydrothermal site, northeast Pacific [abstract].

LUPTON, J. E., 1985, Vertical transport of deep ocean water by submarine hydrothermal vents [abstract].

LUPTON, J. E.; DELANEY, J. R.; JOHNSON, M. P.; TIVEY, M., 1984, Water-column temperature anomalies near an active deep-sea hydrothermal vent [abstract].

LUPTON, J. E.; JOHNSON, H. P.; DELANEY, J. R., 1981, Hydrothermal helium-3 on the Juan de Fuca Ridge [abstract].

MALAHOFF, ALEXANDER, 1985, Hydrothermal vents and polymetallic sulfides of the Galapagos and Gorda/Juan de Fuca Ridge systems and of submarine volcanoes.

MALAHOFF, ALEXANDER; EMBLEY, R. W.; HAMMOND, S. R., 1983, Submarine volcanism and hydrothermal activity along the northern end of the Juan de Fuca Ridge axis [abstract].

MASSOTH, G. J.; BAKER, E. T.; COWEN, J. P.; ROE, K. K.; APPRIOU, P. Y., 1985, The geochemical diversity of Juan de Fuca Ridge hydrothermal plumes [abstract].

MASSOTH, G. J.; FEELY, R. A.; CURL, H. C., JR., 1982, Hydrothermal manganese over the Juan de Fuca and Gorda Ridges [abstract].

MASSOTH, G. J.; FEELY, R. A.; CURL, H. C., JR.; BAKER, E. T., 1983, The geochemistry of particulate hydrothermal plumes over the Juan de Fuca Ridge [abstract].

MCDUFF, R. E.; EDMOND, J. M.; JUNIPER, K.; LUPTON, J. E.; SCOTT, S. D., 1983, Chemistry of hydrothermal waters, 'Axial seamount,' Juan de Fuca Ridge [abstract].

MCDUFF, R. E.; LUPTON, J. E.; KADKO, D.; LILLEY, M. D., 1984, Chemistry of hydrothermal fluids, Endeavor Ridge, northeast Pacific [abstract].

MCKELVEY, V. E., 1982, Subsea polymetallic sulfide deposits.

MCMURTRY, G. M.; MALAHOFF, ALEXANDER; FEELY, R. A.; MASSOTH, G. J., 1984, Geology and chemistry of hydrothermal nontronite deposits from the Juan de Fuca Ridge [abstract].

MURNANE, RICHARD; CLAGUE, D. A., 1982, Nontronite from an immature hydrothermal system on the Juan de Fuca Ridge [abstract].

MURPHY, K. M.; FOX, C. G.; EMBLEY, R. W.; LAU, T.-K. A.; HAMMOND, S. R., 1986, Classification and graphic display of bottom photography for geologic mapping [abstract].

OAKMAN, M. R.; LEINEN, MARGARET, 1985, Preliminary studies of oxidized sulfide deposits from the Endeavour segment, Juan de Fuca Ridge, and Explorer Ridge [abstract].

ROTH, SHARON; DYMOND, JACK, 1985, Hydrothermal particle flux--Endeavour Ridge Phase I [abstract].

SHANKS, W. C., III; SEYFRIED, W. E., JR., 1985, Sulfur isotopic fractionation, anhydrite dissolution, and sulfate reduction--Juan de Fuca Ridge and other seafloor hydrothermal vent systems [abstract].

TIVEY, M. K.; DELANEY, J. R., 1985, Controls on the distribution and size of hydrothermal vent structures on the Endeavour segment, Juan de Fuca Ridge [abstract].

TIVEY, M. A.; JOHNSON, H. P., 1985, A near-bottom magnetic survey over an active hydrothermal vent field--Northern Juan de Fuca Ridge [abstract].

TUNNICLIFFE, VERENA, 1986, Cruise reports--PANDORA II/PISCES IV, 10 July-5 August, 1986.

VAN DER VOORT, J. L.; MIELKE, J. E., 1982, Report on marine hydrothermal metal deposits.

WOLFGRAM, P. A.; EDWARDS, R. N.; LAW, L. K.; BONE, M. N., 1984, Electrical resistivity sounding over sulfides on the northern Juan de Fuca Ridge--The sea floor MOSES experiments [abstract].

JUAN DE FUCA RIDGE - HYDROTHERMAL VENTS - BIOLOGY

DEBEVOISE, A. E.; TAGHON, G. L., 1986, RNA /DNA ratios of a hydrothermal vent vestimentiferan--Evidence for between-vent variation in growth rates [abstract].

JUAN DE FUCA RIDGE - MAPS - GEOLOGIC

DAVIS, E. E.; CURRIE, R. G.; RIDDIHOUGH, R. P.; RYAN, W. B. F.; KASTENS, K.; HUSSONG, D. M.; HAMMOND, S. R.; MALAHOFF, ALEXANDER, 1984, Geological mapping of the northern Juan de Fuca and Explorer Ridges using SeaMARC I, SeaMARC II, and Seabeam acoustic imaging [abstract].

MURPHY, K. M.; FOX, C. G.; EMBLEY, R. W.; LAU, T.-K. A.; HAMMOND, S. R., 1986, Classification and graphic display of bottom photography for geologic mapping [abstract].

SAWYER, B. S.; RIDDIHOUGH, R. P.; DAVIS, E. E.; CURRIE, R. G., 1984, Sidelit and perspective imagery of the Juan de Fuca and Explorer Ridges [abstract].

JUAN DE FUCA RIDGE - MINERAL RESOURCES

FEELY, R. A.; MASSOTH, G. J.; CURL, H. C., JR.; BOUDREAU, M. L.; MCMURTRY, G. M., 1984, Composition of white and black smoker particulates from active vents on the Juan de Fuca and Endeavor Ridges [abstract].

HAMMOND, S. R.; LEE, J. S.; MALAHOFF, ALEXANDER; FEELY, R. A.; EMBLEY, R. W.; FRANKLIN, J., 1984, Discovery of high-temperature hydrothermal venting on the Endeavour segment of the Juan de Fuca Ridge [abstract].

MCMURTRY, G. M.; MALAHOFF, ALEXANDER; FEELY, R. A.; MASSOTH, G. J., 1984, Geology and chemistry of hydrothermal nontronite deposits from the Juan de Fuca Ridge [abstract].

MURNANE, RICHARD; CLAGUE, D. A., 1982, Nontronite from an immature hydrothermal system on the Juan de Fuca Ridge [abstract].

SILVER, L. A.; DELANEY, J. R., 1983, Melting experiments on Juan de Fuca Ridge basalts--Implications for petrogenesis [abstract].

U.S. NATIONAL ADVISORY COMMITTEE ON OCEANS AND ATMOSPHERE, 1983, Marine minerals--An alternative mineral supply; National ocean goals and objectives for the 1980's.

JUAN DE FUCA RIDGE - MINERAL RESOURCES - MANGANESE

JONES, C. J.; JOHNSON, H. P.; DELANEY, J. R., 1981, Distribution of hydrothermal manganese over the Juan de Fuca Ridge.

MASSOTH, G. J.; FEELY, R. A.; CURL, H. C., JR., 1982, Hydrothermal manganese over the Juan de Fuca and Gorda Ridges [abstract].

JUAN DE FUCA RIDGE - MINERAL RESOURCES - METALLICS

BLAISE, B.; BORNHOLD, B. D., 1986, Different sources for iron-rich smectite [abstract].

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

HOLSER, A. F.; ROWLAND, R. W.; GOUD, M. R., 1981, A compilation of subsea energy and mineral resources of the United States including its possessions and Trust Territory of the Pacific Islands.

JOHNSON, H. P.; MERRILL, R. T., 1972, Low temperature oxidation of a titanomagnetite [abstract].

LASMANIS, RAYMOND, 1983, Offshore metal deposits--Washington and Oregon.

SCHILLING, J.-G.; COUSENS, B.; CHASE, R. L.; DELANEY, J. R., 1982, Juan de Fuca-Explorer Ridge--Rare earth contents [abstract].

JUAN DE FUCA RIDGE - MINERAL RESOURCES - PETROLEUM

RONA, P. A., 1983, Potential mineral and energy resources at submerged plate boundaries.

ROWLAND, R. W.; GOUD, M. R.; MCGREGOR, B. A., 1983, The U.S. Exclusive Economic Zone --A summary of its geology, exploration, and resource potential.

ROWLAND, R. W.; MCGREGOR, B. A., 1984, Recommendations from the Department of the Interior EEZ Symposium.

SOKOLOV, B. A.; NESMEYANOV, D. V.; GAYNANOV, A. G.; SEREGIN, A. M., 1976, Geological structure and petroleum potential of the Pacific segment.

JUAN DE FUCA RIDGE - MINERAL RESOURCES - SAND AND GRAVEL

CLAGUE, D. A.; BISCHOFF, J. L.; HOWELL, D. A., 1984, Nonfuel mineral resources of the Pacific Exclusive Economic Zone.

ROWLAND, R. W.; MCGREGOR, B. A., 1984, Recommendations from the Department of the Interior EEZ Symposium.

JUAN DE FUCA RIDGE - MINERAL RESOURCES - SULFIDES

BALLARD, R. D.; BISCHOFF, J. L., PANEL CHAIRMEN, 1984, Assessment and scientific understanding of hard mineral resources in the EEZ.

BUTLER, B. F., 1982, An examination of the application of the draft convention on the Law of the Sea to prospective polymetallic sulfide mining at ocean rift zones.

CALIFORNIA MINING JOURNAL, 1983, Juan de Fuca Ridge minerals analyzed and separated.

DELANEY, J. R.; JOHNSON, H. P.; KINGSTON, M. J., 1983, Sulfide samples from the Juan de Fuca Ridge at 47 degrees 57' N and 129 degrees 06' W [abstract].

DELANEY, J. R.; KARSTEN, J. L.; JOHNSON, H. P.; CHASE, R. L.; SCOTT, S. D.; TUNNICLIFFE, VERENA; HAMMOND, S. R., 1983, Structural control of hydrothermal vents and sulfide structures on the 'Axial seamount,' Juan de Fuca [abstract].

HANNINGTON, M. D.; SCOTT, S. D., 1986, Processes of sulfide accumulation in seafloor polymetallic sulfide deposits--Axial seamount and southern Explorer Ridge [abstract].

HERLIHY, D. R., 1985, Conflicts of interest over polymetallic sulfide minerals on the Gorda-Juan de Fuca Ridge system.

KINGSTON, M. J.; DELANEY, J. R., 1983, Sulfide deposits from the Endeavour segment of the Juan de Fuca Ridge--Comparison with other seafloor occurrences [abstract].

LEINEN, MARGARET, 1985, Mineralogy of hydrothermal precipitates within and near active vents on the Juan de Fuca Ridge and Explorer Ridge [abstract].

MALAHOFF, ALEXANDER, 1985, Hydrothermal vents and polymetallic sulfides of the Galapagos and Gorda/Juan de Fuca Ridge systems and of submarine volcanoes.

MCKELVEY, V. E., 1982, Subsea polymetallic sulfide deposits.

MCKELVEY, V. E.; WANG, F. F. H., 1969, World subsea mineral resources.

THE MERGE GROUP (KARSTEN, J. L.; DELANEY, J. R.; JOHNSON, P.; GOLDFARB, M.; KELLEY, D.; MCDUFF, R. E.; TIVEY, M. K.; TIVEY, M.; DYMOND, JACK; AND OTHERS), 1984, Regional setting and local character of a hydrothermal field/sulfide deposit on the Endeavor segment of the Juan de Fuca Ridge [abstract].

OAKMAN, M. R.; LEINEN, MARGARET, 1985, Preliminary studies of oxidized sulfide deposits from the Endeavour segment, Juan de Fuca Ridge, and Explorer Ridge [abstract].

RONA, P. A., 1983, Potential mineral and energy resources at submerged plate boundaries.

ROWLAND, R. W.; MCGREGOR, B. A., 1984, Recommendations from the Department of the Interior EEZ Symposium.

SCOTT, S. D.; HANNINGTON, M. D.; CHASE, R. L.; MICHAEL, P. J., 1986, An overview of the southern Explorer (SER) and Juan de Fuca (JFR) Ridge systems and their sulfide deposits [abstract].

SHANKS, W. C., III; SEYFRIED, W. E., JR., 1985, Sulfur isotopic fractionation, anhydrite dissolution, and sulfate reduction--Juan de Fuca Ridge and other seafloor hydrothermal vent systems [abstract].

TUNNICLIFFE, VERENA, 1986, Cruise reports--PANDORA II/PISCES IV, 10 July-5 August, 1986.

VAN DER VOORT, J. L.; MIELKE, J. E., 1982, Report on marine hydrothermal metal deposits.

YORATH, C. J.; CURRIE, R. G.; DAVIS, E. E.; RIDDIHOUGH, R. P., 1984, Exploring Juan de Fuca Ridge system [abstract].

JUAN DE FUCA RIDGE - MINING LAW

BUTLER, B. F., 1982, An examination of the application of the draft convention on the Law of the Sea to prospective polymetallic sulfide mining at ocean rift zones.

HERLIHY, D. R., 1985, Conflicts of interest over polymetallic sulfide minerals on the Gorda-Juan de Fuca Ridge system.

JUAN DE FUCA RIDGE - SEAMOUNTS

CASM RESEARCH GROUP (CHASE, R. L.; DELANEY, J. R.; JOHNSON, H. P.; JUNIPER, S. K.; KARSTEN, J. L.; LUPTON, J. E.; SCOTT, S. D.; TUNNICLIFFE, VERENA), 1983, North caldera hydrothermal vent field, Axial seamount Juan de Fuca Ridge [abstract].

CHURCH, S. E., 1973, The isotopic composition of lead in ocean ridge basalts and seamounts from the Juan de Fuca-Gorda Rise system [abstract].

DAVIS, E. E.; KARSTEN, J. L., 1985, An explanation for the asymmetric distribution of seamounts on the flanks of the Juan de Fuca Ridge [abstract].

DESONIE, D. L.; DUNCAN, R. A., 1986, Spreading ridge and hotspot contributions to seamounts near the Juan de Fuca Ridge [abstract].

DUNCAN, R. A.; CLAGUE, D. A., 1985, Pacific plate motion recorded by linear volcanic chains.

HANNINGTON, M. D.; SCOTT, S. D., 1986, Processes of sulfide accumulation in seafloor polymetallic sulfide deposits--Axial seamount and southern Explorer Ridge [abstract].

KARSTEN, J. L.; DELANEY, J. R., 1986, Hot spot/migrating ridge crest interaction--Juan de Fuca style [abstract].

LEE, J. S.; HAMMOND, S. R., 1985, Origin of Heck and Heckle seamount chains, Juan de Fuca Ridge [abstract].

MCDUFF, R. E.; EDMOND, J. M.; JUNIPER, K.; LUPTON, J. E.; SCOTT, S. D., 1983, Chemistry of hydrothermal waters, 'Axial seamount,' Juan de Fuca Ridge [abstract].

JUAN DE FUCA RIDGE - SEDIMENTS

BLAISE, B.; BORNHOLD, B. D., 1986, Different sources for iron-rich smectite [abstract].

CHURCH, S. E., 1972, Trace element abundances in ocean sediments and altered basalts --Their implications for andesite genesis [abstract].

GROSS, M. G.; CAREY, A. G., JR.; FOWLER, G. A.; KULM, L. D., 1972, Distribution of organic carbon in surface sediments, northeast Pacific Ocean.

GRUNDMANIS, VARIS; MURRAY, J. W., 1978, Interstitial water chemistry in the Cascadia basin [abstract].

LEINEN, MARGARET, 1984, Rates of hydrothermal sedimentation on the Juan de Fuca Ridge [abstract].

LEVI, S.; RIDDIHOUGH, R. P., 1985, Why are marine magnetic anomalies suppressed over sedimented spreading centers? [abstract].

LEWISON, M. A.; FEELY, R. A.; CURL, H. C., JR.; GEISELMAN, T. L., 1986, Composition of smoker particulates from active vents within the caldera of Axial Volcano on the Juan de Fuca Ridge [abstract].

MAIRS, H.; LEINEN, MARGARET; OAKMAN, M. R.; JENKINS, J., 1985, A 600 ky record of hydrothermal sedimentation in the vicinity of the Juan de Fuca Ridge [abstract].

MAXWELL, J. C., 1974, Early western margin of the United States.

NOBES, D. C.; VILLINGER, H.; DAVIS, E. E.; LAW, L. K., 1985, Prediction of bulk physical properties at depth for middle valley sediments, Juan de Fuca Ridge [abstract].

JUAN DE FUCA RIDGE - SEDIMENTS - GEOPHYSICS

NOBES, D. C.; VILLINGER, H.; DAVIS, E. E.; LAW, L. K., 1986, Estimation of marine sediment bulk physical properties at depth from seafloor geophysical measurements.

SHOR, G. G., JR.; MENARD, H. W.; RAITT, R. W., 1970, Structure of the Pacific Basin.

JUAN DE FUCA RIDGE - STRATIGRAPHY

MAIRS, H.; LEINEN, MARGARET; OAKMAN, M. R.; JENKINS, J., 1985, A 600 ky record of hydrothermal sedimentation in the vicinity of the Juan de Fuca Ridge [abstract].

JUAN DE FUCA RIDGE - STRUCTURES AND TECTONICS

ANONYMOUS, 1981, Sea-floor geology off western Canada.

BARR, S. M., 1972, Geology of the northern end of Juan de Fuca Ridge and adjacent continental slope.*

BARR, S. M., 1973, The spreading centre near the northern end of Juan de Fuca Ridge [abstract].

BARR, S. M., 1974, Seamount chains formed near the crest of Juan de Fuca Ridge, northeast Pacific Ocean.

BARR, S. M.; CHASE, R. L., 1974, Geology of the northern end of Juan de Fuca Ridge and sea-floor spreading.

BASS, M. N., 1970, Variation of ocean ridge basalts with spreading rate [abstract].

CARLSON, R. L., 1977, Late Cenozoic evolution of the Juan de Fuca and Gorda Rises [abstract].

CARLSON, R. L., 1980, Clockwise rotations of the Juan de Fuca Ridge and Gorda Rise--A case study [abstract].

CARLSON, R. L., 1981, Late Cenozoic rotations of the Juan de Fuca Ridge and the Gorda Rise--A case study.

CHRISTENSEN, N. I., 1970, Oceanic crustal composition in the northeast Pacific [abstract].

COWAN, D. S., 1984, Continent-ocean transect B3--Active spreading, sediment offscraping, and accretionary tectonics, Juan de Fuca Ridge to North Cascades [abstract].

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

DAVIS, E. E., 1975, The northern Juan de Fuca Ridge--A geophysical investigation of an active sea floor spreading center.*

DAVIS, E. E.; CURRIE, R. G.; HUSSONG, D. M.; RENARD, V.; KOSALOS, J., 1983, High altitude side-scan imagery over the northern Juan de Fuca Ridge [abstract].

DAVIS, E. E.; LISTER, C. R. B., 1972, Crustal structure of the Juan de Fuca Ridge [abstract].

DAVIS, E. E.; RIDDIHOUGH, R. P., 1982, The Quaternary history of the northern Juan de Fuca Ridge system [abstract].

DEHLINGER, PETER, 1969, Tectonic processes in the Juan de Fuca and Gorda ridges, and their implications for global tectonics [abstract].

DEHLINGER, PETER; COUCH, R. W.; MCMANUS, D. A.; GEMPERLE, MICHAEL, 1970, Northeast Pacific structure.

DELANEY, J. R.; JOHNSON, H. P.; KARSTEN, J. L., 1981, The Juan de Fuca Ridge--Hot spot --Propagating rift system--New tectonic, geochemical, and magnetic data [abstract].

DELANEY, J. R.; KARSTEN, J. L.; HAMMOND, S. R., 1986, Petrology and tectonics of the Juan de Fuca Ridge [abstract].

DELANEY, J. R.; KARSTEN, J. L.; JOHNSON, H. P.; CHASE, R. L.; SCOTT, S. D.; TUNNICLIFFE, VERENA; HAMMOND, S. R., 1983, Structural control of hydrothermal vents and sulfide structures on the 'Axial seamount,' Juan de Fuca [abstract].

DUNCAN, J. R.; MORGAN, W. J.; MELSON, W. G.; SIMKIN, THOMAS; BANKS, HAROLD; COTTFRIED, DAVID, 1969, Juan de Fuca ridge bathymetry--Independent evidence of seafloor spreading [abstract].

DUNCAN, R. A.; CLAGUE, D. A., 1985, Pacific plate motion recorded by linear volcanic chains.

DUNCAN, R. A.; MCELWEE, K. R., COMPILERS, 1984, Cenozoic plate reconstructions.

ELVERS, D. J.; SRIVASTAVA, S. P.; POTTER, KENNETH; MORLEY, JOSEPH; SEIDEL, DEAN, 1973, Asymmetric spreading across the Juan de Fuca and Gorda rises as obtained from a detailed magnetic survey.

ELVERS, D. J.; WALTON, FRED; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO, 1972, Deformation of the sea floor as revealed by seismic reflection and systematic gravity and magnetic measurements from the Tufts Abyssal Plain to the Washington-Oregon coast [abstract].

FARRAR, E.; DIXON, J. M., 1979, Has the North Pacific spreading center been subducted beneath Oregon, Washington and British Columbia? [abstract].

FOX, K. F., JR., 1983, Northeast-trending subcrustal fault transects western Washington.

HAMMOND, S. R.; MALAHOFF, ALEXANDER, 1982, Structure of the Juan de Fuca Ridge hotspot region from seabeam bathymetry [abstract].

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

JOHNSON, H. P.; DELANEY, J. R., 1980, Interaction of a hot spot and a mid-ocean ridge--The Juan de Fuca Ridge crest [abstract].

JOHNSON, H. P.; DELANEY, J. R.; KARSTEN, J. L.; VANCE, T. C., 1983, Characterization of the structure of the Juan de Fuca Ridge [abstract].

JOHNSON, H. P.; HOLMES, M. L.; GARDNER, J. V.; CAMPBELL, J. F., 1984, A detailed side-scan sonar study of a propagating rift--SeaMARC II on the northern Juan de Fuca Ridge [abstract].*

JOHNSON, H. P.; KARSTEN, J. L.; DELANEY, J. R.; DAVIS, E. E.; CURRIE, R. G.; CHASE, R. L., 1983, A detailed study of the Cobb offset of the Juan de Fuca Ridge--Evolution of a propagating rift.

KAPPEL, E. S.; RYAN, W. B. F., 1986, Volcanic episodicity and a non-steady state rift valley along northeast Pacific spreading centers--Evidence from Sea MARC I.

KARSTEN, J. L.; DELANEY, J. R., 1986, Hot spot/migrating ridge crest interaction--Juan de Fuca style [abstract].

KARSTEN, J. L.; HAMMOND, S. R.; DAVIS, E. E.; CURRIE, R. G., 1986, Detailed geomorphology and neotectonics of the Endeavour Segment, Juan de Fuca Ridge--New results from Seabeam swath mapping.

KARSTEN, J. L.; JOHNSON, H. P.; DELANEY, J. R.; AND OTHERS, 1982, A detailed study of the Cobb offset of the Juan de Fuca Ridge--Evolution of a propagating rift [abstract].

MALAHOFF, ALEXANDER; EMBLEY, R. W.; HAMMOND, S. R., 1982, A seabeam study of the Juan de Fuca and Gorda Ridge axial rift processes [abstract].

MALAHOFF, ALEXANDER; EMBLEY, R. W.; HAMMOND, S. R.; WYAN, W.; CRANE, KATHLEEN, 1982, Juan de Fuca and Gorda Ridge axial ridge morphology and tectonics from combined SEABEAM and SEA MARC data [abstract].

MALAHOFF, ALEXANDER; RIDDIHOUGH, R. P., 1984, Tectonics of the Explorer Ridge and Sovanco fracture zone, N.E. Pacific Ocean [abstract].

MCCLAIN, K. J., 1981, A geophysical study of accretionary processes on the Washington continental margin.*

MCMANUS, D. A.; HOLMES, M. L.; CARSON, BOBB; BARR, S. M., 1972, Late Quaternary tectonics, northern end of Juan de Fuca Ridge (northeast Pacific).

MORGAN, W. J., 1968, Pliocene reconstruction of the Juan de Fuca Ridge [abstract].

PALMER, JEB; DELANEY, J. R., 1987, Progressive merging of uniaxial and radial stress fields during ridge crest-hot spot convergence [abstract].

PAVONI, N., 1971, Interpretation of the magnetic anomalies southwest of Vancouver Island.

PETER, GEORGE; DEWALD, O. E., 1971, Deformation of the sea floor off the northwest coast of the United States.

PETER, GEORGE; LATTIMORE, ROBERT, 1969, Magnetic structure of the Juan de Fuca-Gorda Ridge area.

PITMAN, W. C., III, 1967, Magnetic anomalies in the Pacific and ocean floor spreading.*

PITMAN, W. C., III; HERRON, E.; HEIRTZLER, J. R., 1968, Magnetic anomalies in the Pacific and ocean floor spreading.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

RIDDIHOUGH, R. P.; BECK, M. E., JR.; CHASE, R. L.; DAVIS, E. E.; HYNDMAN, R. D.; JOHNSON, S. H.; ROGERS, G. C., 1983, Geodynamics of the Juan de Fuca Plate.

RONA, P. A., 1983, Potential mineral and energy resources at submerged plate boundaries.

SCHEIDEGGER, K. F., COMPILER, 1984, Thermal evolution of the Juan de Fuca Plate.

SHOR, G. G., JR.; MENARD, H. W.; RAITT, R. W., 1970, Structure of the Pacific Basin.

SILVER, E. A., 1971, Small plate tectonics in the northeastern Pacific.

SINTON, J. M.; CHRISTIE, D. M., 1982, Geochemical anomalies of the Blanco and Cobb

propagating rifts--An evolutionary model [abstract].

SOKOLOV, B. A.; NESMEYANOV, D. V.; GAYNANOV, A. G.; SEREGIN, A. M., 1976, Geological structure and petroleum potential of the Pacific segment.

TOBIN, D. G.; SYKES, L. R., 1968, Seismicity and tectonics of the northeast Pacific Ocean.*

WAHLSTROM, R.; ROGERS, G. C.; ELLIS, R. M., 1987, Seismicity reassessment and earthquake focal mechanisms for the northern Juan de Fuca Ridge system [abstract].

WILSON, D. S., 1985, Tectonic history of the Juan de Fuca Ridge from 40 million years to present [abstract].

WILSON, D. S.; HEY, R. N.; NISHIMURA, C. E., 1984, Propagation as a mechanism of ridge reorientation in the Juan de Fuca area [abstract].*

WILSON, D. S.; HEY, R. N.; NISHIMURA, C. E., 1984, Propagation as a mechanism of reorientation of the Juan de Fuca Ridge.

YORATH, C. J.; CURRIE, R. G.; DAVIS, E. E.; RIDDIHOUGH, R. P., 1984, Exploring Juan de Fuca Ridge system [abstract].

YORATH, C. J.; SIDNEY, B. C.; CHASE, R. L., 1978, Structural cross section--Coast Mountains, British Columbia to Juan de Fuca Ridge [abstract].

JUAN DE FUCA RIDGE - VOLCANISM

APPELGATE, B.; BRINKHURT, R.; BUTTERFIELD, D.; COWEN, J.; DEBEVOISE, A. E.; DECHARON, A.; EMBLEY, R. W.; FEELY, R. A.; FOX, C. G.; FRANKLIN, J.; ET AL, 1986, Pisces submersible exploration of a high-temperature vent field in the caldera of Axial Volcano, Juan de Fuca Ridge [abstract].

CASM RESEARCH GROUP (CHASE, R. L.; DELANEY, J. R.; JOHNSON, H. P.; JUNIPER, S. K.; KARSTEN, J. L.; LUPTON, J. E.; SCOTT, S. D.; TUNNICLIFFE, VERENA), 1983, North caldera hydrothermal vent field, Axial seamount Juan de Fuca Ridge [abstract].

DELANEY, J. R.; KARSTEN, J. L.; JOHNSON, H. P.; CHASE, R. L.; SCOTT, S. D.; TUNNICLIFFE, VERENA; HAMMOND, S. R., 1983, Structural control of hydrothermal vents and sulfide structures on the 'Axial seamount,' Juan de Fuca [abstract].

DELANEY, J. R.; MCDUFF, R. E.; LUPTON, J. E., 1984, Hydrothermal fluid temperatures of 400-degrees C on the Endeavour segment, northern Juan de Fuca [abstract].

DUNCAN, R. A.; CLAGUE, D. A., 1985, Pacific plate motion recorded by linear volcanic chains.

EMBLEY, R. W.; HAMMOND, S. R., 1985, Portrait of the submarine "hotspot" as a young caldera [abstract].

HAMMOND, S. R.; DELANEY, J. R., 1985, Evolution of Axial volcano, Juan de Fuca Ridge [abstract].

JACOBSON, R. S.; BIBEE, L. D.; EMBLEY, R. W.; HAMMOND, S. R., 1987, A microseismicity survey of Axial Seamount, Juan de Fuca Ridge.

KAPPEL, E. S.; RYAN, W. B. F., 1986, Volcanic episodicity and a non-steady state rift valley along northeast Pacific spreading centers--Evidence from Sea MARC I.

LEWISON, M. A.; FEELY, R. A.; CURL, H. C., JR.; GEISELMAN, T. L., 1986, Composition of smoker particulates from active vents within the caldera of Axial Volcano on the Juan de Fuca Ridge [abstract].

LISTER, C. R. B., 1972, repr. 1980, On the thermal balance of a mid-ocean ridge.

MALAHOFF, ALEXANDER; EMBLEY, R. W.; HAMMOND, S. R., 1983, Submarine volcanism and hydrothermal activity along the northern end of the Juan de Fuca Ridge axis [abstract].

MASSOTH, G. J.; FEELY, R. A.; CURL, H. C., JR., 1982, Hydrothermal manganese over the Juan de Fuca and Gorda Ridges [abstract].

MASSOTH, G. J.; FEELY, R. A.; CURL, H. C., JR.; BAKER, E. T., 1983, The geochemistry of particulate hydrothermal plumes over the Juan de Fuca Ridge [abstract].

MAXWELL, J. C., 1974, Early western margin of the United States.

MENARD, H. W., 1969, Growth of drifting volcanos.

TUNNICLIFFE, VERENA, 1986, Cruise reports--PANDORA II/PISCES IV, 10 July-5 August, 1986.

Landslides, see GEOMORPHOLOGY

Law, see MINING LAW

LEAD

CARPENTER, ROY; BENNETT, J. T.; PETERSON, M. L., 1981, 210Pb activities in and fluxes to sediments of the Washington continental slope and shelf.

CARPENTER, ROY; PETERSON, M. L.; BENNETT, J. T., 1982, 210Pb-derived sediment accumu-

lation and mixing rates for the Washington continental slope.

LASMANIS, RAYMOND, 1983, Offshore metal deposits--Washington and Oregon.

NITTROUER, C. A.; DEMASTER, D. J.; MCKEE, B. A.; CUTSHALL, N. H.; LARSEN, I. L., 1983, The effect of sediment mixing on Pb-210 accumulation rates for the Washington continental shelf.

Leases, see PETROLEUM LEASES

Magnetic surveys, see GEOPHYSICS - MAGNETIC SURVEYS

MANGANESE

JONES, C. J.; JOHNSON, H. P.; DELANEY, J. R., 1981, Distribution of hydrothermal manganese over the Juan de Fuca Ridge.

JONES, C. J.; MURRAY, J. W., 1980, The distribution of manganese in the Cascadia Basin [abstract].

JONES, C. J.; MURRAY, J. W., 1985, The geochemistry of manganese in the northeast Pacific Ocean off Washington.

MASSOTH, G. J.; FEELY, R. A.; CURL, H. C., JR., 1982, Hydrothermal manganese over the Juan de Fuca and Gorda Ridges [abstract].

PRICE, N. B.; CALVERT, S. E., 1970, Compositional variation in Pacific Ocean ferromanganese nodules and its relationship to sediment accumulation rates.

SKORNYAKOVA, I. S., 1974, repr. 1980, Dispersed iron and manganese in Pacific Ocean sediments.

SKORNYAKOVA, N. S., 1979, Zonal regularities in occurrence, morphology and chemistry of manganese nodules of the Pacific Ocean.

MAPS - BATHYMETRIC

CHASE, T. E.; WILDE, P.; NORMARK, W. R.; MILLER, C. P.; SEEKINS, B. A.; YOUNG, J. D., 1981, Offshore topography of the western United States between 32 degrees and 49 degrees north latitudes.

GERIN, MARYBETH, 1977, Bathymetric map of Pacific coast, Vancouver Island to Tillamook Bay.

GERIN, MARYBETH; STEVENSON, A. J., COMPILERS, 1979, Equal-area base map of the north Pacific Ocean, northeast section; Albers equal-area projection.

TILLSON, D. D.; GLASS, C. E.; KIEL, W. A., 1985, Use of synthetic shaded relief images for engineering geologic interpretation of geophysical data [abstract].

MAPS - GEOLOGIC

see also CROSS SECTIONS

see also subdivision MAPS - GEOLOGIC under specific geographic areas, e. g., CONTINENTAL MARGIN - MAPS - GEOLOGIC

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

DAVIS, E. E.; CURRIE, R. G.; RIDDIHOUGH, R. P.; RYAN, W. B. F.; KASTENS, K.; HUSSONG, D. M.; HAMMOND, S. R.; MALAHOFF, ALEXANDER, 1984, Geological mapping of the northern Juan de Fuca and Explorer Ridges using SeaMARC I, SeaMARC II, and Seabeam acoustic imaging [abstract].

DRUMMOND, K. J.; AND OTHERS, 1983, Geologic map of the circum-Pacific region, northeast quadrant.

MURPHY, K. M.; FOX, C. G.; EMBLEY, R. W.; LAU, T.-K. A.; HAMMOND, S. R., 1986, Classification and graphic display of bottom photography for geologic mapping [abstract].

SAWYER, B. S.; RIDDIHOUGH, R. P.; DAVIS, E. E.; CURRIE, R. G., 1984, Sidelit and perspective imagery of the Juan de Fuca and Explorer Ridges [abstract].

SNAVELY, P. D., JR.; WAGNER, H. C., 1981, Geologic cross section across the continental margin off Cape Flattery, Washington, and Vancouver Island, British Columbia.

SNAVELY, P. D., JR.; WAGNER, H. C., 1982, Geologic cross section across the continental margin of southwestern Washington.

WAGNER, H. C., 1985, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental shelf and upper continental slope off southwestern Washington between latitudes 46 degrees N. and 47 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W..

WAGNER, H. C.; BATATIAN, L. D.; LAMBERT, T. M.; TOMSON, J. H., 1986, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental slope off southwestern Washington between latitudes 46 degrees N. and 48 degrees 30 minutes N. and

from the Washington coast to 125 degrees 20 minutes W.

MAPS - GEOPHYSICAL

U.S. GEOLOGICAL SURVEY, 1980, Aeromagnetic map of offshore northwest Washington.

WAGNER, H. C., 1985, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental shelf and upper continental slope off southwestern Washington between latitudes 46 degrees N. and 47 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W.

WAGNER, H. C.; BATATIAN, L. D.; LAMBERT, T. M.; TOMSON, J. H., 1986, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental slope off southwestern Washington between latitudes 46 degrees N. and 48 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W.

Mathematical models, see SEDIMENTS - MATHEMATICAL MODELS

MESOZOIC

see also

CRETACEOUS

COWAN, D. S., 1981, Structural styles in Mesozoic melanges along the Pacific margin of North American and their relation to subduction tectonics [abstract].

DANNER, W. R., 1970, Paleontologic and stratigraphic evidence for and against sea floor spreading and opening and closing oceans in the Pacific Northwest [abstract].

DAVIES, T. A., 1985, Mesozoic and Cenozoic sedimentation in the Pacific Ocean basin.

SOKOLOV, B. A.; NESMEYANOV, D. V.; GAYNANOV, A. G.; SEREGIN, A. M., 1976, Geological structure and petroleum potential of the Pacific segment.

MINERAL RESOURCES

see also subdivision MINERAL RESOURCES under specific geographic areas, e. g., CASCADIA BASIN - MINERAL RESOURCES

see also specific commodities:

BLACK SANDS
CADMIUM
CHROMIUM
CLAY
COPPER
GOLD
GRAVEL
IRON
LEAD
MANGANESE
NICKEL
PETROLEUM
PLATINUM
RARE EARTHS
SAND
SILVER
SULFIDES
TITANIUM
ZINC

ANONYMOUS, 1986, America's new frontier.

BALLARD, R. D.; BISCHOFF, J. L., PANEL CHAIRMEN, 1984, Assessment and scientific understanding of hard mineral resources in the EEZ.

CLAGUE, D. A.; BISCHOFF, J. L.; HOWELL, D. A., 1984, Nonfuel mineral resources of the Pacific Exclusive Economic Zone.

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

HOLSER, A. F.; MCGREGOR, B. A.; ROWLAND, R. W.; GOUD, M. R., 1984, United States government initiatives in the assessment and development of the mineral resources of the exclusive economic zone of the United States.

HORN, D. R.; HORN, B. M.; DELACH, M. N., 1972, Ferromanganese deposits of the north Pacific Ocean.

KLITGORD, K. D.; WATKINS, J. S., PANEL CHAIRMEN, 1984, Geologic studies related to oil and gas development in the EEZ--West Coast Pacific margin.

MCKELVEY, V. E., 1986, Subsea mineral resources.

OREGON STATE UNIVERSITY HATFIELD MARINE SCIENCE CENTER, 1985, The Edwin P. Forsythe roundtable on ocean hard mineral development [proceedings].

PRICE, N. B.; CALVERT, S. E., 1970, Compositional variation in Pacific Ocean ferromanganese nodules and its relationship to sediment accumulation rates.

ROWLAND, R. W.; GOUD, M. R.; MCGREGOR, B. A., 1983, The U.S. Exclusive Economic Zone --A summary of its geology, exploration, and resource potential.

ROWLAND, R. W.; MCGREGOR, B. A., 1984, Recommendations from the Department of the Interior EEZ Symposium.

SKORNYAKOVA, I. S., 1974, repr. 1980, Dispersed iron and manganese in Pacific Ocean sediments.

SKORNYAKOVA, N. S., 1979, Zonal regularities in occurrence, morphology and chemistry of manganese nodules of the Pacific Ocean.

U.S. GEOLOGICAL SURVEY, 1986, Atlas of the exclusive economic zone, western conterminous United States.

WEEKS, L. G., 1974, Petroleum resources of continental margins.

MINERAL RESOURCES - CASCADIA BASIN

JONES, C. J.; MURRAY, J. W., 1980, The distribution of manganese in the Cascadia Basin [abstract].

MINERAL RESOURCES - CONTINENTAL SHELF

BENTON, J.; MCDOWELL, T.; SHEARER, C., 1979, Outer continental shelf oil and gas information program; Pacific index.

BOGGS, SAM, JR., 1977, Geological oceanography considerations.

BOGGS, SAM, JR.; KOMAR, P. D., 1977, Geological oceanography.

DELLAGIARINO, GEORGE, 1986, United States outer continental shelf basins--Maps and descriptions.

HARRIS, W. M.; MCFARLANE, B. E.; BEASLEY, DAVID, COMPILERS, 1981, Outer continental shelf statistics--Oil, gas, sulphur, salt, leasing, drilling, production, income, 1953 through calendar year 1980.

HEALY, M. L.; CRECELIUS, E. A., 1977, Chemical oceanography.

KULM, L. D.; PETERSON, C. D.; STRIBLING, M. C., 1986, Inventory of heavy minerals and metals--Southern Washington, Oregon, and northern California continental shelf and coastal region.

MASSOGLIA, M. F., COMPILER, 1977, Conference/workshop proceedings--Recommendations for baseline research in Washington and Oregon relative to offshore resource development.

MCCULLOCH, D. S.; SNAVELY, P. D., JR., 1978, Oil and gas resources of the outer continental shelf [abstract].

MCKELVEY, V. E.; WANG, F. F. H., 1969, World subsea mineral resources.

MICHAEL, L. H., 1977, Chemical oceanography considerations.

MOORE, G. W.; LUKEN, M. D., 1979, Offshore sand and gravel resources of the Pacific Northwest.

NATIONAL ADVISORY COMMITTEE ON OCEANS AND ATMOSPHERE, 1983, Marine minerals--An alternative mineral supply; National ocean goals and objectives for the 1980's.

NATIONAL RESEARCH COUNCIL PANEL ON ASSESSMENT OF FATES AND EFFECTS OF DRILLING FLUIDS AND CUTTINGS IN THE MARINE ENVIRONMENT, 1983, Drilling discharges in the marine environment.

PETERSON, C. D.; BINNEY, S. E., 1987, Fingerprinting economic heavy minerals and sources of marine placers in the Pacific Northwest by instrumental neutron activation analysis [abstract].

PHILLIPS, R. L., 1979, Heavy minerals and bedrock minerals on the continental shelf off Washington, Oregon and California.

RAU, W. W.; WAGNER, H. C., 1974, Oil and gas in Washington.

SNAVELY, P. D., JR.; PEARL, J. E., 1978, Potential petroleum reservoirs within Tertiary melange, coastal Olympic Peninsula and adjacent OCS [abstract].

SNAVELY, P. D., JR.; PEARL, J. E.; LANDER, D. L., 1977, Interim report on petroleum resources potential and geologic hazards in the outer continental shelf--Oregon and Washington Tertiary province; with a section on Resource appraisal estimate, by E. W. Scott.

SNAVELY, P. D., JR.; PEARL, J. E.; LANDER, D. L., 1978, Petroleum resources potential and geologic hazards of the Oregon-Washington outer continental shelf [abstract].

U.S. GEOLOGICAL SURVEY, 1981, Compilation of laws related to mineral resource activities on the outer continental shelf.

U.S. GEOLOGICAL SURVEY, 1981, Compilation of regulations related to mineral resource activities on the outer continental shelf.

WEBSTER, F. L., 1985, Pacific OCS lease sale, October 1, 1964, Oregon and Washington.

ZIEGLAR, D. L.; CASSELL, J. K., 1978, A synthesis of OCS well information, offshore central and northern California, Oregon, and Washington.*

MINERAL RESOURCES - CONTINENTAL MARGIN

BELL, G. L., 1967, Big potential oil basins offshore from west coast.

BERRYHILL, H. L., JR., 1974, The worldwide search for petroleum offshore--A status report for the quarter century, 1947-72.

BRAISLIN, D. B.; HASTINGS, D. D.; SNAVELY, P. D., JR., 1971, Petroleum potential of western Oregon and Washington and adjacent continental margin.

CRUICKSHANK, M. J., 1974, Mineral resources potential of continental margins.

DEACON, R. J.; NEWTON, V. C., JR., 1965, Review of coastal stratigraphy of Oregon and Washington with comments on 1965 activity [abstract].

EDGAR, N. T., 1983, Oil and gas resources of the U.S. continental margin.

JONES, C. J.; MURRAY, J. W., 1984, Nickel, cadmium, and copper in the northeast Pacific off the coast of Washington.

KORNFELD, J. A., 1964, October lease sales spur Northwest U.S. oil search.

LASMANIS, RAYMOND, 1983, Offshore metal deposits--Washington and Oregon.

MANHEIM, F. T.; HESS, H. D., 1981, Offshore hard minerals around the U.S. continental margins.

MCCASLIN, J. C., 1965, Offshore Pacific Northwest--"Much ado about something...".

NEWTON, V. C., JR., 1964, Activity increasing in the Northwest.

NEWTON, V. C., JR., 1967, Summary of oil and gas exploration off the coast of Oregon and Washington, 1961-1966.

NEWTON, V. C., JR.; NEWHOUSE, C. J., 1964, Oil leasing on the outer continental shelf adjacent to Oregon and Washington.

SNAVELY, P. D., JR., 1986, Tertiary evolution and petroleum potential of Oregon-Washington continental margin [abstract].

U.S. GEOLOGICAL SURVEY, 1978, California to Washington [abstract].

ZIEGLAR, D. L.; CASSELL, J. K., 1978, A synthesis of OCS well information, offshore central and northern California, Oregon, and Washington.*

MINERAL RESOURCES - JUAN DE FUCA RIDGE

BLAISE, B.; BORNHOLD, B. D., 1986, Different sources for iron-rich smectite [abstract].

BUTLER, B. F., 1982, An examination of the application of the draft convention on the Law of the Sea to prospective polymetallic sulfide mining at ocean rift zones.

CALIFORNIA MINING JOURNAL, 1983, Juan de Fuca Ridge minerals analyzed and separated.

CRANE, KATHLEEN; AIKMAN, FRANK, III; EMBLEY, R. W.; HAMMOND, S. R.; MALAHOFF, ALEXANDER; LUPTON, J. E., 1984, The distribution of geothermal fields on the Juan de Fuca Ridge [abstract].

DELANEY, J. R.; JOHNSON, H. P.; KINGSTON, M. J., 1983, Sulfide samples from the Juan de Fuca Ridge at 47 degrees 57' N and 129 degrees 06' W [abstract].

DELANEY, J. R.; KARSTEN, J. L.; JOHNSON, H. P.; CHASE, R. L.; SCOTT, S. D.; TUNNICLIFFE, VERENA; HAMMOND, S. R., 1983, Structural control of hydrothermal vents and sulfide structures on the 'Axial seamount,' Juan de Fuca [abstract].

FEELY, R. A.; MASSOTH, G. J.; CURL, H. C., JR.; BOUDREAU, M. L.; MCMURTRY, G. M., 1984, Composition of white and black smoker particulates from active vents on the Juan de Fuca and Endeavor Ridges [abstract].

HAMMOND, S. R.; LEE, J. S.; MALAHOFF, ALEXANDER; FEELY, R. A.; EMBLEY, R. W.; FRANKLIN, J., 1984, Discovery of high-temperature hydrothermal venting on the Endeavour segment of the Juan de Fuca Ridge [abstract].

HANNINGTON, M. D.; PETER, J. M.; SCOTT, S. D., 1986, Gold in sea-floor polymetallic sulfide deposits.

HANNINGTON, M. D.; SCOTT, S. D., 1986, Processes of sulfide accumulation in sea-floor polymetallic sulfide deposits--Axial seamount and southern Explorer Ridge [abstract].

HERLIHY, D. R., 1985, Conflicts of interest over polymetallic sulfide minerals on the Gorda-Juan de Fuca Ridge system.

HOLSER, A. F.; ROWLAND, R. W.; GOUD, M. R., 1981, A compilation of subsea energy and mineral resources of the United States including its possessions and Trust Territory of the Pacific Islands.

JONES, C. J.; JOHNSON, H. P.; DELANEY, J. R., 1981, Distribution of hydrothermal manganese over the Juan de Fuca Ridge.

KINGSTON, M. J.; DELANEY, J. R., 1983, Sulfide deposits from the Endeavour segment of the Juan de Fuca Ridge--Comparison with other seafloor occurrences [abstract].

MALAHOFF, ALEXANDER, 1985, Hydrothermal vents and polymetallic sulfides of the Galapagos and Gorda/Juan de Fuca Ridge systems and of submarine volcanoes.

MASSOTH, G. J.; FEELY, R. A.; CURL, H. C., JR., 1982, Hydrothermal manganese over the Juan de Fuca and Gorda Ridges [abstract].

MCKELVEY, V. E., 1982, Subsea polymetallic sulfide deposits.

MCMURTRY, G. M.; MALAHOFF, ALEXANDER; FEELY, R. A.; MASSOTH, G. J., 1984, Geology and chemistry of hydrothermal nontronite deposits from the Juan de Fuca Ridge [abstract].

THE MERGE GROUP (KARSTEN, J. L.; DELANEY, J. R.; JOHNSON, P.; GOLDFARB, M.; KELLEY, D.; MCDUFF, R. E.; TIVEY, M. K.; TIVEY, M.; DYMOND, JACK; AND OTHERS), 1984, Regional setting and local character of a hydrothermal field/sulfide deposit on the Endeavor segment of the Juan de Fuca Ridge [abstract].

MURNANE, RICHARD; CLAGUE, D. A., 1982, Nontronite from an immature hydrothermal system on the Juan de Fuca Ridge [abstract].

RONA, P. A., 1983, Potential mineral and energy resources at submerged plate boundaries.

SCHILLING, J.-G.; COUSENS, B.; CHASE, R. L.; DELANEY, J. R., 1982, Juan de Fuca-Explorer Ridge--Rare earth contents [abstract].

SCOTT, S. D.; HANNINGTON, M. D.; CHASE, R. L.; MICHAEL, P. J., 1986, An overview of the southern Explorer (SER) and Juan de Fuca (JFR) Ridge systems and their sulfide deposits [abstract].

SILVER, L. A.; DELANEY, J. R., 1983, Melting experiments on Juan de Fuca Ridge basalts--Implications for petrogenesis [abstract].

TUNNICLIFFE, VERENA, 1986, Cruise reports--PANDORA II/PISCES IV, 10 July-5 August, 1986.

U.S. NATIONAL ADVISORY COMMITTEE ON OCEANS AND ATMOSPHERE, 1983, Marine minerals--An alternative mineral supply; National ocean goals and objectives for the 1980's.

VAN DER VOORT, J. L.; MIELKE, J. E., 1982, Report on marine hydrothermal metal deposits.

MINING LAW

see also subdivision MINING LAW under specific geographic areas, e.g., CONTINENTAL SHELF - MINING LAW

BUTLER, B. F., 1982, An examination of the application of the draft convention on the Law of the Sea to prospective polymetallic sulfide mining at ocean rift zones.

GOODIER, J. L., 1972, U.S. federal and seacoast state offshore mining laws.

HERLIHY, D. R., 1985, Conflicts of interest over polymetallic sulfide minerals on the Gorda-Juan de Fuca Ridge system.

U.S. GEOLOGICAL SURVEY, 1981, Compilation of laws related to mineral resource activities on the outer continental shelf.

U.S. GEOLOGICAL SURVEY, 1981, Compilation of regulations related to mineral resource activities on the outer continental shelf.

MIOCENE

FARRAR, E.; DIXON, J. M., 1980, Miocene ridge impingement and the spawning of secondary ridges off Oregon, Washington, and British Columbia.

INGLE, J. C., JR., 1966, Pliocene-Miocene boundary in temperate eastern Pacific [abstract].

SNAVELY, P. D., JR.; MACLEOD, N. S., 1969, Local centers of Miocene volcanism along coastal Oregon and Washington [abstract].

MOLLUSCA

ADDICOTT, W. O., 1969, Tertiary climatic change in the marginal northeastern Pacific Ocean.

HICKMAN, C. S.; LINDBERG, D. R., 1984, Relationship of molluscan biogeographic anomalies to changing settings on an active continental margin [abstract].

Natural gas, see PETROLEUM

NEOGENE

COLE, M. R.; ARMENTROUT, J. M., 1979, Neogene paleogeography of the western United States.

IRVING, E.; ROY, J. L., 1968, Intensite et stabilite d'aimantation des basaltes de l'Oregon et Washington et leurs applications a l'expansion du fond de l'ocean et a d'autres problemes geophysiques.

SHEPHARD, L. E., 1981, Geotechnical properties of select convergent margin sediments.

NICKEL

JONES, C. J.; MURRAY, J. W., 1984, Nickel, cadmium, and copper in the northeast Pacific off the coast of Washington.

NITINAT FAN

EEZ-SCAN 84 SCIENTIFIC STAFF, 1985, MV Farnella cruises 1/84 to 4/84, 26 April to 15 August 1984 GLORIA studies of the Exclusive Economic Zone off the western United States

between 30 degrees 30 minutes and 48 degrees 30 minutes N..

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

MCMANUS, D. A., 1965, Physiography of the sea floor between the Mendocino Ridge and Vancouver Island, northeast Pacific Ocean [abstract].

STOW, D. A. V.; HOWELL, D. G.; NELSON, C. H., 1985, Sedimentary, tectonic, and sea-level controls.

WILDE, P.; CHASE, T. E.; HOLMES, M. L.; NORMARK, W. R.; THOMAS, J. A., 1977, Oceanographic data off Washington, 46 degrees to 49 degrees north including the Nitinat deep sea fan.

NORTH AMERICAN PLATE

BERGLUND, P. L.; CARSON, BOBB, 1978, Development of spaced cleavage in deep-sea mudstone [abstract].

CARSON, BOBB, 1974, Tectonically induced consolidation of deep-sea sediments at a subducting continental margin [abstract].

CLOWES, R. M.; SPENCE, G. D.; WALDRON, D. A.; ELLIS, R. M., 1983, VISP II--Lithospheric structure across the Juan de Fuca/America plate margin [abstract].

CROSSON, R. S., 1986, Earthquake hazard investigations in the Pacific Northwest.

CROWELL, J. C., 1983, Active tectonism along the continental margin of the conterminous United States [abstract].

CROWELL, J. C., 1986, Active tectonics along the western continental margin of the conterminous United States.

MCWILLIAMS, R. G., 1978, Early Tertiary rifting in western Oregon-Washington.

RIDDIHOUGH, R. P.; HYNDMAN, R. D., 1977, The recent interaction between continent and ocean floor in the Pacific Northwest [abstract].

SCHWARTZ, D. P., 1986, Subduction zone earthquakes in the Pacific Northwest--Evaluating the potential--Thoughts for discussion at the Seattle workshop.

SNAVELY, P. D., JR.; MACLEOD, N. S., 1977, Evolution of the Eocene continental margin of western Oregon and Washington [abstract].

SPENCE, WILLIAM, 1986, Origins of stresses at the Cascadia subduction zone, U.S. Pacific Northwest [abstract].

WEAVER, C. S., 1985, Combined regional seismotectonics and the extent of Cenozoic volcanism--An improved first-order geothermal assessment of the Cascade Range.

WEAVER, C. S.; MICHAELSON, C. A., 1983, Segmentation of the Juan de Fuca plate and volcanism in the Cascade Range [abstract].

Nuclear wastes,

see

COLUMBIA RIVER SEDIMENTS - RADIOACTIVITY
SEDIMENTS - RADIOACTIVITY
WASTE DISPOSAL

Oil, see PETROLEUM

Oil and gas leases, see PETROLEUM LEASES

OLIGOCENE

U.S. GEOLOGICAL SURVEY, 1974, Oligocene continental slope beneath Juan de Fuca [abstract].

PACIFIC PLATE

SNAVELY, P. D., JR.; MACLEOD, N. S., 1977, Evolution of the Eocene continental margin of western Oregon and Washington [abstract].

Paleobotany,

see

PALEONTOLOGY
PALYNOLOGY

PALEOCLIMATOLOGY

ADDICOTT, W. O., 1969, Tertiary climatic change in the marginal northeastern Pacific Ocean.

FOWLER, G. A., 1977, Radiolarian-planktonic Foraminifera ratios and Pleistocene deep-sea stratigraphy in the northeastern Pacific off Oregon and Washington [abstract].

FOWLER, G. A.; KULM, L. D.; DUNCAN, J. R.; GRIGGS, G. B., 1969, Late Quaternary deep-sea stratigraphy and paleoclimatology of a middle to high region, northeastern Pacific [abstract].

GRIGGS, G. B.; KULM, L. D.; DUNCAN, J. R.; FOWLER, G. A., 1970, Holocene faunal stratigraphy and paleoclimatic implications of deep-sea sediments in Cascadia basin.

NAYUDU, Y. R., 1964, Carbonate deposits and paleoclimatic implications in the northeast Pacific Ocean.

PALEOGEOGRAPHY

COLE, M. R.; ARMENTROUT, J. M., 1979, Neogene paleogeography of the western United States.

DANNER, W. R., 1970, Paleontologic and stratigraphic evidence for and against sea floor spreading and opening and closing oceans in the Pacific Northwest [abstract].

MORGAN, W. J., 1968, Pliocene reconstruction of the Juan de Fuca Ridge [abstract].

PALEONTOLOGY

see also

DIATOMS
ECHINOIDS
FORAMINIFERA
MOLLUSCA
PALEOCLIMATOLOGY
PALEOGEOGRAPHY
PALYNOLOGY
RADIOLARIA

see also subdivision PALEONTOLOGY under specific geographic areas, e. g., CASCADIA BASIN - PALEONTOLOGY

PALEONTOLOGY - CASCADIA BASIN

ENBYSK, B. J.; COOPER, S. C., 1965, Biogenic elements in surface sediments of Cascadia Basin, northeast Pacific [abstract].

GRIGGS, G. B.; CAREY, A. G., JR.; KULM, L. D., 1969, Deep-sea sedimentation and sediment-fauna interaction in Cascadia channel and on Cascadia abyssal plain.

GRIGGS, G. B.; KULM, L. D.; DUNCAN, J. R.; FOWLER, G. A., 1970, Holocene faunal stratigraphy and paleoclimatic implications of deep-sea sediments in Cascadia basin.

PALEONTOLOGY - CONTINENTAL MARGIN

ADDICOTT, W. O., 1969, Tertiary climatic change in the marginal northeastern Pacific Ocean.

BARNARD, W. D., 1972, Late Pleistocene-Holocene biostratigraphy on the Washington continental slope [abstract].

BARNARD, W. D.; MCMANUS, D. A., 1973, Planktonic foraminiferan-radiolarian stratigraphy and the Pleistocene-Holocene boundary in the northeast Pacific.

CARSON, BOBB; MCMANUS, D. A., 1971, Analysis of turbidite correlation in Cascadia Basin, northeast Pacific Ocean.

DANNER, W. R., 1970, Paleontologic and stratigraphic evidence for and against sea floor spreading and opening and closing oceans in the Pacific Northwest [abstract].

DUNCAN, J. R.; FOWLER, G. A.; KULM, L. D., 1970, Planktonic foraminiferan-radiolarian ratios and Holocene-late Pleistocene deep sea stratigraphy off Oregon.

DURHAM, J. W., 1977, Pacific coast Cenozoic middle and high latitude Echinoidea [abstract].

ECHOLS, R. J.; BARNES, S. S.; HARMAN, R. A., 1969, Sediment-foraminiferal relations within inner sublittoral zone off coast of Washington [abstract].

ECHOLS, R. J.; FOWLER, G. A., 1973, Agglutinated tintinnid loricae from some Recent and late Pleistocene shelf sediments.

ENBYSK, B. J., 1965, Coiling direction ratios of Foraminifera Globigerina pachyderma (Ehrenberg) in northeastern Pacific surface sediments [abstract].

FLORER, L. E., 1973, Pollen analysis of marine sediments off the Washington coast.

FLORER, L. E., 1974, Pollen analyses of marine cores off the Washington coast [abstract].*

FLORER-HEUSSER, L. E., 1975, Late Cenozoic marine palynology of northeastern Pacific Ocean cores.

FOWLER, G. A., 1977, Radiolarian-planktonic Foramininfera ratios and Pleistocene deep-sea stratigraphy in the northeastern Pacific off Oregon and Washington [abstract].

FOWLER, G. A.; KULM, L. D.; DUNCAN, J. R.; GRIGGS, G. B., 1969, Late Quaternary deep-sea stratigraphy and paleoclimatology of a middle to high region, northeastern Pacific [abstract].

HEUSSER, C. J.; FLORER, L. E., 1973, Correlation of marine and continental Quaternary pollen records from the northeast Pacific and western Washington.

HEUSSER, L. E.; BALSAM, W. L., 1975, Distributional patterns of pollen from the Northeast Pacific Ocean [abstract].

HEUSSER, L. E.; BALSAM, W. L., 1977, Pollen distribution in the northeast Pacific Ocean.

HICKMAN, C. S.; LINDBERG, D. R., 1984, Relationship of molluscan biogeographic anomalies to changing settings on an active continental margin [abstract].

INGLE, J. C., JR., 1966, Pliocene-Miocene boundary in temperate eastern Pacific [abstract].

LING, H.-Y., 1966, The radiolarian Protocystis thomsoni (Murray) in the northeast Pacific Ocean.

WELTON, B. J., 1980, Late Cretaceous and Cenozoic Squalomorphii of the northeast Pacific Ocean [abstract].

PALEOZOIC

CHURKIN, MICHAEL, JR., 1974, Paleozoic marginal ocean basin-volcanic arc systems in the Cordilleran foldbelt.

PALYNOLOGY

FLORER, L. E., 1973, Pollen analysis of marine sediments off the Washington coast.

FLORER, L. E., 1974, Pollen analyses of marine cores off the Washington coast [abstract].*

FLORER-HEUSSER, L. E., 1975, Late Cenozoic marine palynology of northeastern Pacific Ocean cores.

HEUSSER, C. J.; FLORER, L. E., 1973, Correlation of marine and continental Quaternary pollen records from the northeast Pacific and western Washington.

HEUSSER, L. E.; BALSAM, W. L., 1975, Distributional patterns of pollen from the Northeast Pacific Ocean [abstract].

HEUSSER, L. E.; BALSAM, W. L., 1977, Pollen distribution in the northeast Pacific Ocean.

PETROLEUM

KLITGORD, K. D.; WATKINS, J. S., PANEL CHAIRMEN, 1984, Geologic studies related to oil and gas development in the EEZ--West Coast Pacific margin.

ROWLAND, R. W.; GOUD, M. R.; MCGREGOR, B. A., 1983, The U.S. Exclusive Economic Zone --A summary of its geology, exploration, and resource potential.

ROWLAND, R. W.; MCGREGOR, B. A., 1984, Recommendations from the Department of the Interior EEZ Symposium.

SOKOLOV, B. A.; NESMEYANOV, D. V.; GAYNANOV, A. G.; SEREGIN, A. M., 1976, Geological structure and petroleum potential of the Pacific segment.

WEEKS, L. G., 1974, Petroleum resources of continental margins.

PETROLEUM - CONTINENTAL MARGIN

BELL, G. L., 1967, Big potential oil basins offshore from west coast.

BENTON, J.; MCDOWELL, T.; SHEARER, C., 1979, Outer continental shelf oil and gas information program; Pacific index.

BERRYHILL, H. L., JR., 1974, The worldwide search for petroleum offshore--A status report for the quarter century, 1947-72.

BOGGS, SAM, JR.; KOMAR, P. D., 1977, Geological oceanography.

BRAISLIN, D. B.; HASTINGS, D. D.; SNAVELY, P. D., JR., 1971, Petroleum potential of western Oregon and Washington and adjacent continental margin.

DEACON, R. J.; NEWTON, V. C., JR., 1965, Review of coastal stratigraphy of Oregon and Washington with comments on 1965 activity [abstract].

DELLAGIARINO, GEORGE, 1986, United States outer continental shelf basins--Maps and descriptions.

EDGAR, N. T., 1983, Oil and gas resources of the U.S. continental margin.

KORNFELD, J. A., 1964, October lease sales spur Northwest U.S. oil search.

MCCASLIN, J. C., 1965, Offshore Pacific Northwest--"Much ado about something...".

MCCULLOCH, D. S.; SNAVELY, P. D., JR., 1978, Oil and gas resources of the outer continental shelf [abstract].

MCKELVEY, V. E.; WANG, F. F. H., 1969, World subsea mineral resources.

NEWTON, V. C., JR., 1964, Activity increasing in the Northwest.

NEWTON, V. C., JR., 1967, Summary of oil and gas exploration off the coast of Oregon and Washington, 1961-1966.

NEWTON, V. C., JR.; NEWHOUSE, C. J., 1964, Oil leasing on the outer continental shelf adjacent to Oregon and Washington.

RAU, W. W.; WAGNER, H. C., 1974, Oil and gas in Washington.

SNAVELY, P. D., JR., 1986, Tertiary evolution and petroleum potential of Oregon-Washington continental margin [abstract].

SNAVELY, P. D., JR.; PEARL, J. E., 1978, Potential petroleum reservoirs within Tertiary melange, coastal Olympic Peninsula and adjacent OCS [abstract].

SNAVELY, P. D., JR.; PEARL, J. E.; LANDER, D. L., 1977, Interim report on petroleum resources potential and geologic hazards in the outer continental shelf--Oregon and Washington Tertiary province; with a sec-

tion on Resource appraisal estimate, by E. W. Scott.

SNAVELY, P. D., JR.; PEARL, J. E.; LANDER, D. L., 1978, Petroleum resources potential and geologic hazards of the Oregon-Washington outer continental shelf [abstract].

U.S. GEOLOGICAL SURVEY, 1978, California to Washington [abstract].

U.S. GEOLOGICAL SURVEY, 1978, Marine geology and coastal hydrology; coastal and marine geology; Pacific Continental Margin.

WEBSTER, F. L., 1985, Pacific OCS lease sale, October 1, 1964, Oregon and Washington.

ZIEGLAR, D. L.; CASSELL, J. K., 1978, A synthesis of OCS well information, offshore central and northern California, Oregon, and Washington.*

PETROLEUM - JUAN DE FUCA RIDGE

RONA, P. A., 1983, Potential mineral and energy resources at submerged plate boundaries.

PETROLEUM LEASES

NEWTON, V. C., JR.; NEWHOUSE, C. J., 1964, Oil leasing on the outer continental shelf adjacent to Oregon and Washington.

WEBSTER, F. L., 1985, Pacific OCS lease sale, October 1, 1964, Oregon and Washington.

Plate tectonics, see TECTONICS AND PLATE TECTONICS

PLATINUM

HOLSER, A. F.; ROWLAND, R. W.; GOUD, M. R., 1981, A compilation of subsea energy and mineral resources of the United States including its possessions and Trust Territory of the Pacific Islands.

MANHEIM, F. T.; HESS, H. D., 1981, Offshore hard minerals around the U.S. continental margins.

NATIONAL ADVISORY COMMITTEE ON OCEANS AND ATMOSPHERE, 1983, Marine minerals--An alternative mineral supply; National ocean goals and objectives for the 1980's.

Pleistocene, see QUATERNARY - PLEISTOCENE

PLIOCENE

INGLE, J. C., JR., 1966, Pliocene-Miocene boundary in temperate eastern Pacific [abstract].

MORGAN, W. J., 1968, Pliocene reconstruction of the Juan de Fuca Ridge [abstract].

QUATERNARY

ARCARO, N. P.; CARSON, BOBB, 1978, Clay mineralogy of Cascadia Basin Quaternary sediments--Control by provenance, weathering, or selective transport? [abstract].

BARNARD, W. D., 1978, The Washington continental slope--Quaternary tectonics and sedimentation.

BARNARD, W. D.; MCMANUS, D. A., 1973, Planktonic foraminiferan-radiolarian stratigraphy and the Pleistocene-Holocene boundary in the northeast Pacific.

CARSON, BOBB, 1971, Stratigraphy and depositional history of Quaternary sediments in northern Cascade Basin and Juan de Fuca abyssal plain, northeast Pacific Ocean.*

CARSON, BOBB, 1972, Selective turbidite deposition and dispersal with waning turbidity current activity [abstract].

CARSON, BOBB; MCMANUS, D. A., 1969, The stratigraphy of northern Cascadia Basin--A statistical evaluation [abstract].

DAVIS, E. E.; RIDDIHOUGH, R. P., 1982, The Quaternary history of the northern Juan de Fuca Ridge system [abstract].

ECHOLS, R. J.; FOWLER, G. A., 1973, Agglutinated tintinnid loricae from some Recent and late Pleistocene shelf sediments.

ENBYSK, B. J.; COOPER, S. C., 1965, Biogenic elements in surface sediments of Cascadia Basin, northeast Pacific [abstract].

FLORER, L. E., 1973, Pollen analysis of marine sediments off the Washington coast.

FOWLER, G. A.; KULM, L. D.; DUNCAN, J. R.; GRIGGS, G. B., 1969, Late Quaternary deep-sea stratigraphy and paleoclimatology of a middle to high region, northeastern Pacific [abstract].

GRIGGS, G. B.; KULM, L. D., 1969, Glacial marine sediments from the northeast Pacific.

HEDGES, J. I.; VAN GEEN, ALEXANDER, 1982, A comparison of lignin and stable carbon isotope compositions in Quaternary marine sediments.

HEUSSER, C. J.; FLORER, L. E., 1973, Correlation of marine and continental Quaternary pollen records from the northeast Pacific and western Washington.

KILBOURNE, R. T.; GIBSON, C. N., 1979, Use of Neogloboquadrina pachyderma (Ehrenberg) coiling ratio curves for chronostratigraph-

ic correlations of Quaternary marine sediments along the west coast [abstract].

KULM, L. D.; SCHEIDEGGER, K. F., 1979, Quaternary sedimentation on the tectonically active Oregon continental slope.

LING, H.-Y., 1968, Radiolaria in surface sediments of northeast Pacific Ocean [abstract].

MCMANUS, D. A.; HOLMES, M. L.; CARSON, BOBB; BARR, S. M., 1972, Late Quaternary tectonics, northern end of Juan de Fuca Ridge (northeast Pacific).

NELSON, C. H.; 1985, Astoria Fan, Pacific Ocean.

NELSON, H., 1976, Late Pleistocene and Holocene depositional trends, processes and history of Astoria deep-sea fan, northeast Pacific.

STOKKE, P. R.; CARSON, BOBB, 1974, Clay mineralogy of Cascadia Basin-Juan de Fuca abyssal plain (northeast Pacific Ocean) Quaternary sediments [abstract].

QUATERNARY - HOLOCENE

CARSON, BOBB; ARCARO, N. P., 1983, Control of clay-mineral stratigraphy by selective transport in late Pleistocene-Holocene sediments of northern Cascadia Basin-Juan de Fuca abyssal plain--Implications for studies of clay-mineral provenance.

DUNCAN, J. R.; FOWLER, G. A.; KULM, L. D., 1970, Planktonic foraminiferan-radiolarian ratios and Holocene-late Pleistocene deep sea stratigraphy off Oregon.

GRIGGS, G. B.; KULM, L. D.; DUNCAN, J. R.; FOWLER, G. A., 1970, Holocene faunal stratigraphy and paleoclimatic implications of deep-sea sediments in Cascadia basin.

HEDGES, J. I., 1977, Lignin compounds in Holocene sediments from the Washington continental shelf [abstract].

HEUSSER, L. E.; BALSAM, W. L., 1975, Distributional patterns of pollen from the Northeast Pacific Ocean [abstract].

HEUSSER, L. E.; BALSAM, W. L., 1977, Pollen distribution in the northeast Pacific Ocean.

NITTROUER, C. A., 1978, The process of detrital sediment accumulation in a continental shelf environment--An examination of the Washington shelf.*

NITTROUER, C. A.; STERNBERG, R. W., 1978, Shallow stratigraphy and Holocene sedimentation on the Washington continental shelf [abstract].

NITTROUER, C. A.; STERNBERG, R. W.; CARPENTER, ROY; BENNETT, J. T., 1979, The use of Pb-210 geochronology as a sedimentological tool--Application to the Washington continental shelf.

NITTROUER, C. A.; STERNBERG, R. W.; HOLMES, M. L., 1977, Shallow stratigraphy and Holocene sedimentation on the Washington continental shelf [abstract].

QUATERNARY - PLEISTOCENE

BARNARD, W. D., 1972, Late Pleistocene-Holocene biostratigraphy on the Washington continental slope [abstract].

BARNARD, W. D., 1973, Late Pleistocene deformation of Cascadia Basin turbidites along Washington continental margin [abstract].

BARNARD, W. D., 1974, Westward progressing Pleistocene deformation of the lower continental slope of the Washington coast [abstract].

CARSON, BOBB; ARCARO, N. P., 1983, Control of clay-mineral stratigraphy by selective transport in late Pleistocene-Holocene sediments of northern Cascadia Basin-Juan de Fuca abyssal plain--Implications for studies of clay-mineral provenance.

DUNCAN, J. R.; FOWLER, G. A.; KULM, L. D., 1970, Planktonic foraminiferan-radiolarian ratios and Holocene-late Pleistocene deep sea stratigraphy off Oregon.

DUNCAN, J. R.; KULM, L. D., 1968, Postglacial and late Pleistocene sedimentation in the abyssal environments off Oregon-Washington [abstract].

FLORER, L. E., 1974, Pollen analyses of marine cores off the Washington coast [abstract].*

FOWLER, G. A., 1977, Radiolarian-planktonic Foramininfera ratios and Pleistocene deep-sea stratigraphy in the northeastern Pacific off Oregon and Washington [abstract].

SCAMMAN, R. L.; CARSON, BOBB, 1981, Secondary carbonate on the Washington-Oregon lower continental slope--Precipitation related to subduction? [abstract].

SCHWARTZ, M. L., 1972, Seamounts as sea-level indicators.*

SILVER, E. A., 1972, Pleistocene tectonic accretion of the continental slope off Washington.

SILVER, E. A.; BARNARD, W. D., 1971, Pleistocene tectonics of the Washington continental slope [abstract].

WISSMANN, GERD, 1970, Shallow sub-bottom geology of the Washington shelf south of La Perouse Bank [abstract].

QUINAULT CANYON

BAKER, E. T., 1983, Present-day sedimentation patterns in Quinault submarine canyon, Washington continental slope [abstract].

BAKER, E. T.; HICKEY, B. M., 1986, Contemporary sedimentation processes in and around an active west coast submarine canyon.

CARSON, BOBB; BAKER, E. T., 1983, Processes of offshore sediment dispersal around a submarine canyon [abstract].

CARSON, BOBB; BAKER, E. T.; HICKEY, B. M.; NITTROUER, C. A.; DEMASTER, D. J.; THORBJARNARSON, K. W.; SNYDER, G. W., 1986, Modern sediment dispersal and accumulation in Quinault submarine canyon--A summary.

CARSON, BOBB; BAKER, E. T.; NITTROUER, C. A.; DEMASTER, D. J., 1982, Modern sediment transport and accumulation in Quinault submarine canyon, Washington continental slope [abstract].

CARSON, BOBB; SNYDER, G. W.; BAKER, E. T., 1984, Sediment dispersal and accumulation in Quinault Canyon--Introduction and implications of particle size analysis [abstract].

CUTSHALL, N. H.; LARSEN, I. L.; OLSEN, C. R.; NITTROUER, C. A.; DEMASTER, D. J., 1983, Columbia River sediment in Quinault Canyon--Implications for deep ocean waste disposal [abstract].

CUTSHALL, N. H.; LARSEN, I. L.; OLSEN, C. R.; NITTROUER, C. A.; DEMASTER, D. J., 1986, Columbia River sediment in Quinault Canyon, Washington--Evidence from artificial radionuclides.

DEMASTER, D. J.; HOFFMAN, P. A.; NITTROUER, C. A.; THORBJARNARSON, K. W., 1983, Th-234 and Pb-210 fluxes from particle traps in Quinault Submarine Canyon, Washington [abstract].

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

HICKEY, B. M.; BAKER, E. T., 1983, Velocity and suspended sediment fluctuations in the vicinity of Quinault Submarine Canyon [abstract].

KRAFFT, A. D., 1984, Mineral and chemical composition of suspended and bottom sediments, Quinault submarine canyon.

NITTROUER, C. A.; STERNBERG, R. W.; HOLMES, M. L., 1977, Shallow stratigraphy and Holocene sedimentation on the Washington continental shelf [abstract].

SHEPARD, F. P.; DILL, R. F., 1966, repr. 1976, Summary characteristics and dimensions of submarine canyons.

SNYDER, G. W., 1984, Size distributions of suspended and bottom sediments in and around Quinault submarine canyon--Implications for modern sediment transport and accumulation off the Washington coast.

SNYDER, G. W.; CARSON, BOBB, 1982, Dispersal and accumulation of modern sediment in Quinault submarine canyon--Particle size, composition, and areal/temporal variability [abstract].

SNYDER, G. W.; CARSON, BOBB, 1986, Bottom and suspended particle sizes--Implications for modern sediment transport in Quinault submarine canyon.

SNYDER, G. W.; CARSON, BOBB; BAKER, E. T., 1983, Sediment dispersal and accumulation in Quinault Canyon--Implications of particle size analysis [abstract].

THORBJARNARSON, K. W.; NITTROUER, C. A.; DEMASTER, D. J., 1983, Modern sediment accumulation in Quinault Submarine Canyon, Washington [abstract].

THORBJARNARSON, K. W.; NITTROUER, C. A.; DEMASTER, D. J., 1986, Accumulation of modern sediment in Quinault submarine canyon.

Radioactivity,

see

COLUMBIA RIVER SEDIMENTS - RADIOACTIVITY
SEDIMENTS - RADIOACTIVITY SURVEYS

RADIOLARIA

BARNARD, W. D., 1978, The Washington continental slope--Quaternary tectonics and sedimentation.

BARNARD, W. D.; MCMANUS, D. A., 1973, Planktonic foraminiferan-radiolarian stratigraphy and the Pleistocene-Holocene boundary in the northeast Pacific.

DUNCAN, J. R.; FOWLER, G. A.; KULM, L. D., 1970, Planktonic foraminiferan-radiolarian ratios and Holocene-late Pleistocene deep sea stratigraphy off Oregon.

RADIOLARIA

FOWLER, G. A., 1977, Radiolarian-planktonic Foraminifera ratios and Pleistocene deep-sea stratigraphy in the northeastern Pacific off Oregon and Washington [abstract].

FOWLER, G. A.; KULM, L. D.; DUNCAN, J. R.; GRIGGS, G. B., 1969, Late Quaternary deep-sea stratigraphy and paleoclimatology of a middle to high region, northeastern Pacific [abstract].

GRIGGS, G. B.; KULM, L. D.; DUNCAN, J. R.; FOWLER, G. A., 1970, Holocene faunal stratigraphy and paleoclimatic implications of deep-sea sediments in Cascadia basin.

LING, H.-Y., 1966, The radiolarian Protocystis thomsoni (Murray) in the northeast Pacific Ocean.

LING, H.-Y., 1968, Radiolaria in surface sediments of northeast Pacific Ocean [abstract].

RADON

SMETHIE, W. M., JR.; NITTROUER, C. A., 1980, The use of radon-222 as a tracer of sediment irrigation and mixing on the Washington continental shelf [abstract].

SMETHIE, W. M., JR.; NITTROUER, C. A.; SELF, R. F. L., 1981, The use of Radon-222 as a tracer of sediment irrigation and mixing on the Washington continental shelf.

RARE EARTHS

SCHILLING, J.-G.; COUSENS, B.; CHASE, R. L.; DELANEY, J. R., 1982, Juan de Fuca-Explorer Ridge--Rare earth contents [abstract].

Resistivity surveys, see GEOPHYSICS - RESISTIVITY SURVEYS

SAND

BALLARD, R. D.; BISCHOFF, J. L., PANEL CHAIRMEN, 1984, Assessment and scientific understanding of hard mineral resources in the EEZ.

CLAGUE, D. A.; BISCHOFF, J. L.; HOWELL, D. A., 1984, Nonfuel mineral resources of the Pacific Exclusive Economic Zone.

MOORE, G. W.; LUKEN, M. D., 1979, Offshore sand and gravel resources of the Pacific Northwest.

ROWLAND, R. W.; MCGREGOR, B. A., 1984, Recommendations from the Department of the Interior EEZ Symposium.

VENKATARATHNAM, KOLLA; MCMANUS, D. A., 1973, Origin and distribution of sands and gravels on the northern continental shelf off Washington.

SEAMOUNTS

BARR, S. M., 1974, Seamount chains formed near the crest of Juan de Fuca Ridge, northeast Pacific Ocean.

BLACKSTOCK, C. G.; GAVIN, J. E., 1969, Cobb Seamount model.

CASM RESEARCH GROUP (CHASE, R. L.; DELANEY, J. R.; JOHNSON, H. P.; JUNIPER, S. K.; KARSTEN, J. L.; LUPTON, J. E.; SCOTT, S. D.; TUNNICLIFFE, VERENA), 1983, North caldera hydrothermal vent field, Axial seamount Juan de Fuca Ridge [abstract].

CHURCH, S. E., 1973, The isotopic composition of lead in ocean ridge basalts and seamounts from the Juan de Fuca-Gorda Rise system [abstract].

DAVIS, E. E.; KARSTEN, J. L., 1985, An explanation for the asymmetric distribution of seamounts on the flanks of the Juan de Fuca Ridge [abstract].

DESONIE, D. L.; DUNCAN, R. A., 1986, Spreading ridge and hotspot contributions to seamounts near the Juan de Fuca Ridge [abstract].

DUNCAN, R. A.; CLAGUE, D. A., 1985, Pacific plate motion recorded by linear volcanic chains.

HANNINGTON, M. D.; SCOTT, S. D., 1986, Processes of sulfide accumulation in sea-floor polymetallic sulfide deposits--Axial seamount and southern Explorer Ridge [abstract].

KARSTEN, J. L.; DELANEY, J. R., 1986, Hot spot/migrating ridge crest interaction--Juan de Fuca style [abstract].

LEE, J. S.; HAMMOND, S. R., 1985, Origin of Heck and Heckle seamount chains, Juan de Fuca Ridge [abstract].

LISTER, C. R. B., 1969, Studies of oceanic tectonics utilizing detailed surveying and stratigraphy.

MCDUFF, R. E.; EDMOND, J. M.; JUNIPER, K.; LUPTON, J. E.; SCOTT, S. D., 1983, Chemistry of hydrothermal waters, 'Axial seamount,' Juan de Fuca Ridge [abstract].

MERRILL, R. T.; BURNS, R. E., 1972, A detailed magnetic study of Cobb Seamount.

NAYUDU, Y. R.; CHASTAIN, CHARLETTE; WIENKE, S. M.; LATTERELL, H. M., 1969, Petrology of Cobb Seamount [abstract].

NAYUDU, Y. R.; CHASTAIN, CHARLETTE; WOODRUFF, J. L., 1968, Morphology and petrology of two seamounts on Eickelberg Ridge [abstract].

PALMER, JEB; DELANEY, J. R., 1987, Progressive merging of uniaxial and radial stress fields during ridge crest-hot spot convergence [abstract].

PAYTON, W. H.; LAVIN, P. M., 1987, Application of directional filtering to separate Juan de Fuca seamount magnetic anomalies from seafloor magnetic lineations [abstract].

SCHWARTZ, M. L., 1972, Seamounts as sea-level indicators.*

SCHWARTZ, M. L.; LINGBLOOM, K. L., 1973, Research submersible reconnaissance of Cobb Seamount.*

TUNNICLIFFE, VERENA; CHASE, R. L.; FARROW, G.; NELSON, D., 1983, Rocks, sediments and benthos of Cobb seamount, N.E. Pacific Ocean [abstract].

Sediment transport, see SEDIMENTS - TRANSPORT

SEDIMENTS

see also

COLUMBIA RIVER SEDIMENTS
SUBMARINE CANYONS - SEDIMENTS

see also subdivision SEDIMENTS under specific geographic areas, e. g., CASCADIA BASIN - SEDIMENTS

CARSON, BOBB, 1976, Tectonic consolidation of deep-sea sediments--Preliminary results of laboratory simulation [abstract].

DAVIES, T. A., 1985, Mesozoic and Cenozoic sedimentation in the Pacific Ocean basin.

INTERNATIONAL SYMPOSIUM ON THE ENGINEERING PROPERTIES OF SEA-FLOOR SOILS AND THEIR GEOPHYSICAL IDENTIFICATION, 1971, Proceedings.

MCCOY, F. W.; SANCETTA, CONSTANCE, 1985, North Pacific sediments.

NAYUDU, Y. R., 1959, Recent sediments of the northeast Pacific.

SCHOLL, D. W., 1974, Sedimentary sequences in the north Pacific trenches.

SEDIMENTS - ASTORIA CANYON AND FAN

CARLSON, P. R.; NELSON, C. H., 1969, Sediments and sedimentary structures of the Astoria submarine canyon-fan systems, northeast Pacific.

DAUPHIN, J. P., 1980, Size distribution of chemically extracted quartz used to characterize fine-grained sediments.

KULM, L. D.; SCHEIDEGGER, K. F., 1979, Quaternary sedimentation on the tectonically active Oregon continental slope.

NELSON, C. H., 1985, Astoria Fan, Pacific Ocean.

NELSON, C. H.; NILSEN, T. H., 1974, Depositional trends of modern and ancient deep-sea fans.

NELSON, H., 1976, Late Pleistocene and Holocene depositional trends, processes and history of Astoria deep-sea fan, northeast Pacific.

OSTERBERG, C. L.; KULM, L. D.; BYRNE, J. V., 1963, Gamma emitters in marine sediments near the Columbia River.

RUSSELL, K. L., 1967, Clay mineral origin and distribution on Astoria Fan.

SCHWELLER, W. J.; KULM, L. D., 1978, Depositional patterns and channelized sedimentation in active eastern Pacific trenches.

STOW, D. A. V.; HOWELL, D. G.; NELSON, C. H., 1985, Sedimentary, tectonic, and sea-level controls.

SEDIMENTS - CASCADIA BASIN

ARCARO, N. P.; CARSON, BOBB, 1978, Clay mineralogy of Cascadia Basin Quaternary sediments--Control by provenance, weathering, or selective transport? [abstract].

BERGLUND, P. L.; CARSON, BOBB, 1978, Development of spaced cleavage in deep-sea mudstone [abstract].

CARSON, BOBB, 1971, Stratigraphy and depositional history of Quaternary sediments in northern Cascade Basin and Juan de Fuca abyssal plain, northeast Pacific Ocean.*

CARSON, BOBB, 1972, Selective turbidite deposition and dispersal with waning turbidity current activity [abstract].

CARSON, BOBB, 1974, Tectonically induced consolidation of deep-sea sediments at a subducting continental margin [abstract].

CARSON, BOBB, 1975, Carbonate dissolution in "offscraped" deep-sea sediments--An integral part of the subduction process? [abstract].

CARSON, BOBB, 1977, Tectonically induced deformation of deep-sea sediments off Washington and northern Oregon--Mechanical consolidation.

CARSON, BOBB; ARCARO, N. P., 1983, Control of clay-mineral stratigraphy by selective transport in late Pleistocene-Holocene sediments of northern Cascadia Basin-Juan de

Fuca abyssal plain--Implications for studies of clay-mineral provenance.

CARSON, BOBB; MCMANUS, D. A., 1969, The stratigraphy of northern Cascadia Basin--A statistical evaluation [abstract].

CARSON, BOBB; MCMANUS, D. A., 1971, Analysis of turbidite correlation in Cascadia Basin, northeast Pacific Ocean.

CHASE, T. E.; HOLMES, M. L.; WILDE, P.; NORMARK, W. R., 1977, Compilation of marine geologic and oceanographic data off the western United States; Cascadia sheet [abstract].

CHASE, T. E.; NORMARK, W. R.; WILDE, P., 1976, Compilations of marine geologic and oceanographic data off the west coast of the United States [abstract].

DAUPHIN, J. P.; MOORE, T. C., JR.; HEATH, G. R., 1973, Rates of accumulation of quartz, opal, organic carbon and calcium carbonate in Cascadia Basin, northeast Pacific [abstract].

DUNCAN, J. R.; KULM, L. D., 1968, Postglacial and late Pleistocene sedimentation in the abyssal environments off Oregon-Washington [abstract].

DUNCAN, J. R.; KULM, L. D., 1970, Mineralogy, provenance, and dispersal history of late Quaternary deep-sea sands in Cascadia Basin and Blanco fracture zone of Oregon.

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

ENBYSK, B. J.; COOPER, S. C., 1965, Biogenic elements in surface sediments of Cascadia Basin, northeast Pacific [abstract].

GRIGGS, G. B.; CAREY, A. G., JR.; KULM, L. D., 1969, Deep-sea sedimentation and sediment-fauna interaction in Cascadia channel and on Cascadia abyssal plain.

GRIGGS, G. B.; KULM, L. D., 1969, Glacial marine sediments from the northeast Pacific.

GRIGGS, G. B.; KULM, L. D., 1969, Turbidity current analysis in a deep-sea channel [abstract].

GRIGGS, G. B.; KULM, L. D., 1970, Sedimentation in Cascadia deep-sea channel.

GRIGGS, G. B.; KULM, L. D.; DUNCAN, J. R.; FOWLER, G. A., 1970, Holocene faunal stratigraphy and paleoclimatic implications of deep-sea sediments in Cascadia basin.

GRIGGS, G. B.; KULM, L. D.; WATERS, A. C.; FOWLER, G. A., 1970, Deep-sea gravel from Cascadia channel.

GROSS, M. G., 1965, The carbonate content of surface sediments from the northeast Pacific Ocean.

GROSS, M. G., 1972, Sediment-associated radionuclides from the Columbia River.

GROSS, M. G.; CAREY, A. G., JR.; FOWLER, G. A.; KULM, L. D., 1972, Distribution of organic carbon in surface sediments, northeast Pacific Ocean.

GRUNDMANIS, VARIS; MURRAY, J. W., 1978, Interstitial water chemistry in the Cascadia basin [abstract].

MCMANUS, D. A., 1965, Bottom sediment types in Cascadia Basin, northeast Pacific Ocean [abstract].

NAYUDU, Y. R.; ENBYSK, B. J., 1964, Biolithology of northeast Pacific surface sediments.

NELSON, C. H., 1985, Astoria Fan, Pacific Ocean.

NELSON, C. H.; KULM, L. D.; CARLSON, P. R.; DUNCAN, J. R., 1968, Mazama ash in the northeastern Pacific.

PIPER, D. J. W., 1978, Turbidite muds and silts on deepsea fans and abyssal plains.

STOKKE, P. R.; CARSON, BOBB, 1974, Clay mineralogy of Cascadia Basin-Juan de Fuca abyssal plain (northeast Pacific Ocean) Quaternary sediments [abstract].

SEDIMENTS - CONTINENTAL MARGIN

BAKER, E. T.; HICKEY, B. M., 1986, Contemporary sedimentation processes in and around an active west coast submarine canyon.

BARNARD, W. D., 1973, Late Pleistocene deformation of Cascadia Basin turbidites along Washington continental margin [abstract].

BARNES, C. A.; GROSS, M. G., 1966, Distribution at sea of Columbia River water and its load of radionuclides.

BORNHOLD, B. D.; BRANDON, M. T.; CLOWES, R. M.; CURRIE, R. G.; DAVIS, E. E.; HUSSONG, D. M.; HYNDMAN, R. D.; RIDDIHOUGH, R. P.; ROGERS, G. C.; YORATH, C. J., 1986, Recent acoustic studies of western Canadian continental margin [abstract].

CARPENTER, ROY; BENNETT, J. T.; PETERSON, M. L., 1981, 210Pb activities in and fluxes to sediments of the Washington continental slope and shelf.

CARSON, BOBB, 1974, Sediment modification related to subduction--Washington-Oregon continental margin [abstract].

CARSON, BOBB, 1977, Tectonically induced deformation of deep-sea sediments off Washington and northern Oregon--Mechanical consolidation.

CARSON, BOBB; YUAN, J.-W., 1972, Pattern of deep-sea sediment deformation at a compressive continental margin [abstract].

CHASE, T. E.; HOLMES, M. L.; WILDE, P.; NORMARK, W. R., 1977, Compilation of marine geologic and oceanographic data off the western United States; Cascadia sheet [abstract].

CHASE, T. E.; NORMARK, W. R.; WILDE, P., 1976, Compilations of marine geologic and oceanographic data off the west coast of the United States [abstract].

CONNARD, GERRY; COUCH, R. W.; KEELING, KENNETH; ROY, J.; TROSETH, S., COMPILERS, 1984, Abyssal plain and continental net-objective sedimentary thicknesses.

COUCH, R. W.; CONNARD, GERRY; KIENLE, C. R., 1980, Sediment thicknesses and tectonic lineations of the northern Juan de Fuca plate and Washington continental margin [abstract].

ECHOLS, R. J.; BARNES, S. S.; HARMAN, R. A., 1969, Sediment-foraminiferal relations within inner sublittoral zone off coast of Washington [abstract].

FIELD, M. E.; CARLSON, P. R.; HALL, R. K., 1983, Seismic facies of shelfedge deposits, U.S. Pacific continental margin.

FLORER, L. E., 1974, Pollen analyses of marine cores off the Washington coast [abstract].*

FOWLER, G. A., 1977, Radiolarian-planktonic Foramininfera ratios and Pleistocene deep-sea stratigraphy in the northeastern Pacific off Oregon and Washington [abstract].

FOWLER, G. A.; KULM, L. D.; DUNCAN, J. R.; GRIGGS, G. B., 1969, Late Quaternary deep-sea stratigraphy and paleoclimatology of a middle to high region, northeastern Pacific [abstract].

GROSS, M. G.; BARNES, C. A.; RIEL, G. K., 1964, Radioactivity of the Columbia River discharge in the northeast Pacific Ocean in August 1963 [abstract].

HARMAN, R. A., 1969, Process affecting distribution of foraminifera and other biogenic sediment components off coast of Washington and Oregon [abstract].

HEUSSER, L. E.; BALSAM, W. L., 1977, Pollen distribution in the northeast Pacific Ocean.

HORN, D. R.; DELACH, M. N.; HORN, B. M., 1969, Distribution of volcanic ash layers and turbidites in the north Pacific.

HOWELL, D. G.; ALPHA, T. R.; JOYCE, J. M., 1980, Plate tectonics, physiography, and sedimentation of the northeast Pacific region.

KILBOURNE, R. T.; GIBSON, C. N., 1979, Use of Neogloboquadrina pachyderma (Ehrenberg) coiling ratio curves for chronostratigraphic correlations of Quaternary marine sediments along the west coast [abstract].

KULM, L. D.; FOWLER, G. A., 1974, Cenozoic sedimentary framework of the Gorda-Juan de Fuca Plate and adjacent continental margin --A review.

LING, H.-Y., 1968, Radiolaria in surface sediments of northeast Pacific Ocean [abstract].

MAXWELL, J. C., 1974, Early western margin of the United States.

NAYUDU, Y. R., 1964, Carbonate deposits and paleoclimatic implications in the northeast Pacific Ocean.

PRAHL, F. G., 1985, Chemical evidence of differential particle dispersal in the southern Washington coastal environment.

PRAHL, F. G.; CARPENTER, ROY, 1984, Hydrocarbons in Washington coastal sediments.

RITGER, S. D.; CARSON, BOBB; SUESS, ERWIN, 1987, Methane-derived authigenic carbonates formed by subduction-induced pore-water expulsion along the Oregon/Washington margin.

SCHEIDEGGER, K. F.; KRISSEK, L. A.; BABA, L., COMPILERS, 1984, Texture and mineralogy of continental margin sediments.

SHEPHARD, L. E., 1981, Geotechnical properties of select convergent margin sediments.*

SKORNYAKOVA, N. S., 1979, Zonal regularities in occurrence, morphology and chemistry of manganese nodules of the Pacific Ocean.

SNAVELY, P. D., JR., 1986, Tertiary evolution and petroleum potential of Oregon-Washington continental margin [abstract].

SNAVELY, P. D., JR.; WAGNER, H. C., 1980, Generalized isopach map of Tertiary sedimentary rocks, western Oregon and Washington, and adjacent continental margin.

SUESS, ERWIN; MASSOTH, G. J., 1984, Evidence for venting of pore waters from subducted sediments of the Oregon continental margin [abstract].

WAGNER, H. C., 1985, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental shelf and upper continental slope off southwestern Washington between latitudes 46 degrees N. and 47 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W..

WAGNER, H. C.; BATATIAN, L. D.; LAMBERT, T. M.; TOMSON, J. H., 1986, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental slope off southwestern Washington between latitudes 46 degrees N. and 48 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W.

SEDIMENTS - CONTINENTAL SHELF

BEASLEY, T. M.; CARPENTER, ROY; JENNINGS, C. D., 1982, Plutonium, 241Am and 137Cs ratios, inventories and vertical profiles in Washington and Oregon continental shelf sediments.

BOGGS, SAM, JR., 1977, Geological oceanography considerations.

BOGGS, SAM, JR.; KOMAR, P. D., 1977, Geological oceanography.

CREAGER, J. S.; STERNBERG, R. W., 1972, Some specific problems in understanding bottom sediment distribution and dispersal on the continental shelf [with discussion].

CUTSHALL, N. H., 1967, Chromium-51 in the Columbia River and adjacent Pacific Ocean.*

CUTSHALL, N. H.; RENFRO, W. C.; EVANS, D. W.; JOHNSON, V. G., 1971, Zinc-65 in Oregon -Washington continental shelf sediments.

ECHOLS, R. J.; FOWLER, G. A., 1973, Agglutinated tintinnid loricae from some Recent and late Pleistocene shelf sediments.

ERTEL, J. R.; HEDGES, J. I., 1985, Sources of sedimentary humic substances--Vascular plant debris.

FLORER, L. E., 1973, Pollen analysis of marine sediments off the Washington coast.

FLORER, L. E., 1974, Pollen analyses of marine cores off the Washington coast [abstract].*

FLORER-HEUSSER, L. E., 1975, Late Cenozoic marine palynology of northeastern Pacific Ocean cores.

FORSTER, W. O., 1972, Radionuclide distribution in Columbia River and adjacent Pacific shelf sediments.

GROSS, M. G., 1963, Radioactivity of marine sediments near the Columbia River in 1962 [abstract].

GROSS, M. G., 1965, Distribution of radioactive Columbia River sediment on the Washington-Oregon continental shelf [abstract].

GROSS, M. G., 1966, Distribution of radioactive marine sediment derived from the Columbia River.

GROSS, M. G., 1968, Distribution and movement of radioactive Columbia River sediment on the continental shelf of Washington and Oregon [abstract].

GROSS, M. G., 1972, Sediment-associated radionuclides from the Columbia River.

GROSS, M. G.; MCMANUS, D. A.; LING, H.-Y., 1967, Continental shelf sediment, northwest United States.

GROSS, M. G.; NELSON, J. L., 1966, Sediment movement on the continental shelf near Washington and Oregon.

HARMON, R. A., 1972, The distribution of microbiogenic sediment near the mouth of the Columbia River.

HEALY, M. J.; CARSON, BOBB, 1983, Dispersal rates of Mount St. Helens ash across the Washington continental shelf--1980-1981 [abstract].

HEALY, M. L.; CRECELIUS, E. A., 1977, Chemical oceanography.

HEDGES, J. I., 1977, Lignin compounds in Holocene sediments from the Washington continental shelf [abstract].

HEDGES, J. I.; VAN GEEN, ALEXANDER, 1982, A comparison of lignin and stable carbon isotope compositions in Quaternary marine sediments.

HERZER, R. H.; BORNHOLD, B. D., 1982, Glaciation and post-glacial history of the continental shelf off southwestern Vancouver Island, British Columbia.

KACHEL, N. B., 1972, Development of a model of sediment movement on the Washington continental shelf [abstract].

KACHEL, N. B., 1980, A time dependent model of sediment transport and strata formation on a continental shelf.*

KACHEL, N. B., 1982, Effects of combined waves and currents on erosion, transport, and stratigraphy on a continental shelf [abstract].

KACHEL, N. B., 1982, Sediment transport, deposition, and strata formation on a continental shelf [abstract].

KACHEL, N. B.; KELLEY, J. C., 1972, Computer simulation of sedimentation off the Washington coast [abstract].

KELLEY, J. C.; MCMANUS, D. A., 1968, Evaluation of granulometric parameters for the recognition of sediment variability [abstract].

KELLEY, J. C.; MCMANUS, D. A., 1969, Optimizing sediment sampling plans.

KELLEY, J. C.; MCMANUS, D. A., 1969, Separation of local variability from noise in sediment textural variables [abstract].

KELLEY, J. C.; MCMANUS, D. A., 1970, Hierarchial analysis of variance of shelf sediment texture.*

MASSOGLIA, M. F., COMPILER, 1977, Conference/workshop proceedings--Recommendations for baseline research in Washington and Oregon relative to offshore resource development.

MCMANUS, D. A., 1965, Bottom sediment types in Cascadia Basin, northeast Pacific Ocean [abstract].

MCMANUS, D. A., 1972, Bottom topography and sediment texture near the Columbia River mouth.

MORSE, B.-A.; GROSS, M. G.; BARNES, C. A., 1968, Movement of seabed drifters near the Columbia River.*

NELSON, C. H.; NORMARK, W. R.; BOUMA, A. H.; CARLSON, P. R., 1978, Thin-bedded turbidites in modern submarine canyons and fans.

NITTROUER, C. A., 1978, The process of detrital sediment accumulation in a continental shelf environment--An examination of the Washington shelf.*

NITTROUER, C. A.; DEMASTER, D. J.; MCKEE, B. A.; CUTSHALL, N. H.; LARSEN, I. L., 1983, The effect of sediment mixing on Pb-210 accumulation rates for the Washington continental shelf.

NITTROUER, C. A.; SMETHIE, W. M., JR.; SELF, R. F. L.; STERNBERG, R. W.; JUMARS, P. A., 1978, Observations of sediment mixing on the Washington shelf [abstract].

NITTROUER, C. A.; STERNBERG, R. W., 1977, The new continental shelf sedimentology--A multi-systems approach to the investigation of allochthonous sedimentation [abstract].

NITTROUER, C. A.; STERNBERG, R. W., 1978, Shallow stratigraphy and Holocene sedimentation on the Washington continental shelf [abstract].

NITTROUER, C. A.; STERNBERG, R. W., 1980, The formation of sedimentary strata in a continental shelf environment [abstract].

NITTROUER, C. A.; STERNBERG, R. W., 1981, The formation of sedimentary strata in an allochthonous shelf environment--The Washington continental shelf.

NITTROUER, C. A.; STERNBERG, R. W.; BORGELD, J. C., 1977, Sedimentary structures and their relationship to sedimentary processes on the Washington continental shelf [abstract].

NITTROUER, C. A.; STERNBERG, R. W.; CARPENTER, ROY, 1976, Trends in modern sediment accumulation on the Washington continental shelf as delineated by Pb-210 studies [abstract].

NITTROUER, C. A.; STERNBERG, R. W.; CARPENTER, ROY; BENNETT, J. T., 1979, The use of Pb-210 geochronology as a sedimentological tool--Application to the Washington continental shelf.

PHILLIPS, R. L., 1979, Heavy minerals and bedrock minerals on the continental shelf off Washington, Oregon and California.

PRAHL, F. G., 1980, Anthracene distributions in sediment cores from the Washington continental shelf [abstract].

PRAHL, F. G.; CARPENTER, ROY, 1983, Polycyclic aromatic hydrocarbon (PAH)-phase associations in Washington coastal sediment.

ROYSE, C. F., JR., 1964, Sediments of Willapa submarine canyon.*

RUNGE, E. J., JR., 1966, Continental shelf sediments, Columbia River to Cape Blanco, Oregon.

SCHOLL, D. W.; MARLOW, M. S., 1974, Sedimentary sequence in modern Pacific trenches and the deformed circum-Pacific eugeosyncline.

SEYMOUR, A. H.; LEWIS, G. B., 1964, Radionuclides of Columbia River origin in marine organisms, sediments, and water collected from the coastal and offshore waters of Washington and Oregon, 1961-63.

SHEPARD, F. P.; DILL, R. F., 1966, repr. 1976, Summary characteristics and dimensions of submarine canyons.

SMETHIE, W. M., JR.; NITTROUER, C. A., 1980, The use of radon-222 as a tracer of sediment irrigation and mixing on the Washington continental shelf [abstract].

SMETHIE, W. M., JR.; NITTROUER, C. A.; SELF, R. F. L., 1981, The use of Radon-222 as a tracer of sediment irrigation and mixing on the Washington continental shelf.

SMITH, J. D.; HOPKINS, T. S., 1972, Sediment transport on the continental shelf off of Washington and Oregon in light of recent current measurements.*

STERNBERG, R. W.; CREAGER, J. S.; GLASSLEY, W. E.; JOHNSON, J., 1977, Stability of dredged material deposited at ocean dumping sites seaward of Columbia River mouth [abstract].

STERNBERG, R. W.; CREAGER, J. S.; JOHNSON, J.; GLASSLEY, W. E., 1979, Stability of dredged material deposited seaward of the Columbia River mouth.

STERNBERG, R. W.; LARSEN, L. H., 1975, Threshold of sediment movement by open ocean waves--Observations.

STERNBERG, R. W.; LARSEN, L. H., 1976, Frequency of sediment movement on the Washington continental shelf--A note.

STERNBERG, R. W.; MCMANUS, D. A., 1972, Implications of sediment dispersal from long-term, bottom-current measurements on the continental shelf of Washington.

TWISS, E. S.; CARPENTER, ROY; SCHELL, W. R., 1973, Polonium-210 in sediments off the Washington coast [abstract].

VENKATARATHNAM, KOLLA, 1969, Size distribution and mineral composition of the sediments of the inner continental shelf off northern Washington.

VENKATARATHNAM, KOLLA, 1970, Sediments of the continental shelf off northern Washington.

VENKATARATHNAM, KOLLA; MCMANUS, D. A., 1969, Sediments of inner continental shelf off northern Washington coast [abstract].

VENKATARATHNAM, KOLLA; MCMANUS, D. A., 1973, Origin and distribution of sands and gravels on the northern continental shelf off Washington.

WHITE, S. M., 1968, Distribution of glauconite-boron association in continental-shelf sediments [abstract].

WHITE, S. M., 1968, The mineralogy and geochemistry of the sediments on the continental shelf off the Washington-Oregon coast.*

WHITE, S. M., 1970, Mineralogy and geochemistry of continental shelf sediments of Washington-Oregon coast.

BARNARD, W. D., 1973, Late Cenozoic sedimentation on the Washington continental slope.*

BARNARD, W. D., 1978, The Washington continental slope--Quaternary tectonics and sedimentation.

BERGLUND, P. L.; CARSON, BOBB, 1978, Development of spaced cleavage in deep-sea mudstone [abstract].

CARPENTER, ROY; BEASLEY, T. M., 1985, Plutonium, 241Am, 137Cs and 210Pb activities in continental slope sediments off Washington [abstract].

CARPENTER, ROY; PETERSON, M. L.; BENNETT, J. T., 1982, 210Pb-derived sediment accumulation and mixing rates for the Washington continental slope.

CARSON, BOBB, 1972, Selective turbidite deposition and dispersal with waning turbidity current activity [abstract].

CARSON, BOBB, 1974, Tectonically induced consolidation of deep-sea sediments at a subducting continental margin [abstract].

CARSON, BOBB, 1975, Carbonate dissolution in "offscraped" deep-sea sediments--An integral part of the subduction process? [abstract].

CARSON, BOBB; RITGER, S. D.; SUESS, ERWIN, 1984, Precipitation of carbonate crust associated with subduction-induced pore-water expulsion--Washington-Oregon continental slope [abstract].

CARSON, BOBB; YUAN, J.-W.; MYERS, P. B., JR.; BARNARD, W. D., 1974, Initial deep-sea sediment deformation at the base of the Washington continental slope--A response to subduction.

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

GROSS, M. G.; CAREY, A. G., JR.; FOWLER, G. A.; KULM, L. D., 1972, Distribution of organic carbon in surface sediments, northeast Pacific Ocean.

KRISSEK, L. A., 1982, Sources, dispersal, and contributions of fine-grained terrigenous sediments on the Oregon and Washington continental slope.*

KRISSEK, L. A., 1984, Continental source area contributions to fine-grained sediments on the Oregon and Washington continental slope.

KRISSEK, L. A.; SCHEIDEGGER, K. F., 1980, Composition, sources, and dispersal of hemipelagic sediment on the Oregon continental margin [abstract].

KRISSEK, L. A.; SCHEIDEGGER, K. F., 1981, Sources and dispersal of terrigenous sediments on the Oregon-Washington continental slope [abstract].

KRISSEK, L. A.; SCHEIDEGGER, K. F., 1982, Multiple sediment sources and fine silt depositional patterns on the Oregon-Washington continental slope [abstract].

OLMSTEAD, D. L., 1972, Clay mineralogy of the Washington continental slope.

PRAHL, F. G., 1984, Hopene for greater sedimentological understanding [abstract].

RITGER, S. D., 1985, Methane-derived authigenic carbonates formed by subduction-induced pore water explusion along the Oregon /Washington margin.

ROYSE, C. F., JR., 1967, Mazama ash from the continental slope off Washington.

SCAMMAN, R. L., 1981, Diagenetic carbonate cementation of clastic sediments near the sediment-water interface on the lower continental slope off Washington and northern Oregon.

SCAMMAN, R. L.; CARSON, BOBB, 1981, Secondary carbonate on the Washington-Oregon lower continental slope--Precipitation related to subduction? [abstract].

SEDIMENTS - GEOCHEMISTRY

ARCARO, N. P.; CARSON, BOBB, 1978, Clay mineralogy of Cascadia Basin Quaternary sediments--Control by provenance, weathering, or selective transport? [abstract].

BEASLEY, T. M.; CARPENTER, ROY; JENNINGS, C. D., 1982, Plutonium, 241Am and 137Cs ratios, inventories and vertical profiles in Washington and Oregon continental shelf sediments.

BLAISE, B.; BORNHOLD, B. D., 1986, Different sources for iron-rich smectite [abstract].

CARPENTER, ROY; BEASLEY, T. M., 1985, Plutonium, 241Am, 137Cs and 210Pb activities in continental slope sediments off Washington [abstract].

CARPENTER, ROY; BENNETT, J. T.; PETERSON, M. L., 1981, 210Pb activities in and fluxes to sediments of the Washington continental slope and shelf.

CARPENTER, ROY; PETERSON, M. L.; BENNETT, J. T., 1982, 210Pb-derived sediment accumulation and mixing rates for the Washington continental slope.

CARSON, BOBB, 1975, Carbonate dissolution in "offscraped" deep-sea sediments--An integral part of the subduction process? [abstract].

CARSON, BOBB; RITGER, S. D.; SUESS, ERWIN, 1984, Precipitation of carbonate crust associated with subduction-induced pore-water expulsion--Washington-Oregon continental slope [abstract].

CHURCH, S. E., 1972, Trace element abundances in ocean sediments and altered basalts --Their implications for andesite genesis [abstract].

CUTSHALL, N. H., 1967, Chromium-51 in the Columbia River and adjacent Pacific Ocean.*

CUTSHALL, N. H.; LARSEN, I. L.; OLSEN, C. R.; NITTROUER, C. A.; DEMASTER, D. J., 1983, Columbia River sediment in Quinault Canyon--Implications for deep ocean waste disposal [abstract].

CUTSHALL, N. H.; LARSEN, I. L.; OLSEN, C. R.; NITTROUER, C. A.; DEMASTER, D. J., 1986, Columbia River sediment in Quinault Canyon, Washington--Evidence from artificial radionuclides.

CUTSHALL, N. H.; RENFRO, W. C.; EVANS, D. W.; JOHNSON, V. G., 1971, Zinc-65 in Oregon -Washington continental shelf sediments.

DAUPHIN, J. P.; MOORE, T. C., JR.; HEATH, G. R., 1973, Rates of accumulation of quartz, opal, organic carbon and calcium carbonate in Cascadia Basin, northeast Pacific [abstract].

DEMASTER, D. J.; HOFFMAN, P. A.; NITTROUER, C. A.; THORBJARNARSON, K. W., 1983, Th-234 and Pb-210 fluxes from particle traps in Quinault Submarine Canyon, Washington [abstract].

ERTEL, J. R.; HEDGES, J. I., 1985, Sources of sedimentary humic substances--Vascular plant debris.

GROSS, M. G., 1965, The carbonate content of surface sediments from the northeast Pacific Ocean.

GROSS, M. G., 1966, Distribution of radioactive marine sediment derived from the Columbia River.

GROSS, M. G.; CAREY, A. G., JR.; FOWLER, G. A.; KULM, L. D., 1972, Distribution of

organic carbon in surface sediments, northeast Pacific Ocean.

GROSS, M. G.; MCMANUS, D. A.; CREAGER, J. S., 1963, Preliminary report on the sediments and radioactivity in the vicinity of the Columbia River effluent.

HARMON, R. A., 1972, The distribution of microbiogenic sediment near the mouth of the Columbia River.

HEDGES, J. I., 1977, Lignin compounds in Holocene sediments from the Washington continental shelf [abstract].

HEDGES, J. I.; MANN, D. C., 1979, The lignin geochemistry of marine sediments from the southern Washington coast.

HEDGES, J. I.; VAN GEEN, ALEXANDER, 1982, A comparison of lignin and stable carbon isotope compositions in Quaternary marine sediments.

HORN, D. R.; HORN, B. M.; DELACH, M. N., 1972, Ferromanganese deposits of the north Pacific Ocean.

KRAFFT, A. D., 1984, Mineral and chemical composition of suspended and bottom sediments, Quinault submarine canyon.

KRISSEK, L. A., 1982, Sources, dispersal, and contributions of fine-grained terrigenous sediments on the Oregon and Washington continental slope.*

KRISSEK, L. A.; SCHEIDEGGER, K. F., 1982, Multiple sediment sources and fine silt depositional patterns on the Oregon-Washington continental slope [abstract].

LEVI, S.; RIDDIHOUGH, R. P., 1985, Why are marine magnetic anomalies suppressed over sedimented spreading centers? [abstract].

LEWISON, M. A.; FEELY, R. A.; CURL, H. C., JR.; GEISELMAN, T. L., 1986, Composition of smoker particulates from active vents within the caldera of Axial Volcano on the Juan de Fuca Ridge [abstract].

MAIRS, H.; LEINEN, MARGARET; OAKMAN, M. R.; JENKINS, J., 1985, A 600 ky record of hydrothermal sedimentation in the vicinity of the Juan de Fuca Ridge [abstract].

NITTROUER, C. A.; DEMASTER, D. J.; MCKEE, B. A.; CUTSHALL, N. H.; LARSEN, I. L., 1983, The effect of sediment mixing on Pb-210 accumulation rates for the Washington continental shelf.

NITTROUER, C. A.; STERNBERG, R. W.; CARPENTER, ROY, 1976, Trends in modern sediment accumulation on the Washington continental shelf as delineated by Pb-210 studies [abstract].

OLMSTEAD, D. L., 1972, Clay mineralogy of the Washington continental slope.

OSTERBERG, C. L.; KULM, L. D.; BYRNE, J. V., 1963, Gamma emitters in marine sediments near the Columbia River.

PHILLIPS, R. L., 1979, Heavy minerals and bedrock minerals on the continental shelf off Washington, Oregon and California.

PRAHL, F. G., 1980, Anthracene distributions in sediment cores from the Washington continental shelf [abstract].

PRAHL, F. G., 1984, Hopene for greater sedimentological understanding [abstract].

PRAHL, F. G., 1985, Chemical evidence of differential particle dispersal in the southern Washington coastal environment.

PRAHL, F. G.; CARPENTER, ROY, 1983, Polycyclic aromatic hydrocarbon (PAH)-phase associations in Washington coastal sediment.

PRAHL, F. G.; CARPENTER, ROY, 1984, Hydrocarbons in Washington coastal sediments.

RITGER, S. D., 1985, Methane-derived authigenic carbonates formed by subduction-induced pore water explusion along the Oregon/Washington margin.

RUNGE, E. J., JR., 1966, Continental shelf sediments, Columbia River to Cape Blanco, Oregon.

SCAMMAN, R. L., 1981, Diagenetic carbonate cementation of clastic sediments near the sediment-water interface on the lower continental slope off Washington and northern Oregon.

SCHEIDEGGER, K. F.; KRISSEK, L. A.; BABA, L., COMPILERS, 1984, Texture and mineralogy of continental margin sediments.

SMETHIE, W. M., JR.; NITTROUER, C. A.; SELF, R. F. L., 1981, The use of Radon-222 as a tracer of sediment irrigation and mixing on the Washington continental shelf.

STOKKE, P. R.; CARSON, BOBB, 1974, Clay mineralogy of Cascadia Basin-Juan de Fuca abyssal plain (northeast Pacific Ocean) Quaternary sediments [abstract].

SUESS, ERWIN; MASSOTH, G. J., 1984, Evidence for venting of pore waters from subducted sediments of the Oregon continental margin [abstract].

TWISS, E. S.; CARPENTER, ROY; SCHELL, W. R., 1973, Polonium-210 in sediments off the Washington coast [abstract].

VENKATARATHNAM, KOLLA, 1969, Size distribution and mineral composition of the sedi-

ments of the inner continental shelf off northern Washington.

WHITE, S. M., 1968, Distribution of glauconite-boron association in continental-shelf sediments [abstract].

WHITE, S. M., 1968, The mineralogy and geochemistry of the sediments on the continental shelf off the Washington-Oregon coast.*

WHITE, S. M., 1970, Mineralogy and geochemistry of continental shelf sediments of Washington-Oregon coast.

SEDIMENTS - GEOPHYSICS

CARSON, BOBB, 1971, Stratigraphy and depositional history of Quaternary sediments in northern Cascade Basin and Juan de Fuca abyssal plain, northeast Pacific Ocean.*

CARSON, BOBB; YUAN, J.-W., 1972, Pattern of deep-sea sediment deformation at a compressive continental margin [abstract].

DAVIS, E. E.; YORATH, C. J.; HYNDMAN, R. D.; CURRIE, R. G.; BORNHOLD, B. D.; BRANDON, M. T.; CLOWES, R. M., 1986, The deformation front of the northern Cascadia subduction zone in plan and cross section [abstract].

FIELD, M. E.; CARLSON, P. R.; HALL, R. K., 1983, Seismic facies of shelfedge deposits, U.S. Pacific continental margin.

GROSS, M. G., 1963, Radioactivity of marine sediments near the Columbia River in 1962 [abstract].

GROSS, M. G., 1965, Distribution of radioactive Columbia River sediment on the Washington-Oregon continental shelf [abstract].

GROSS, M. G., 1968, Distribution and movement of radioactive Columbia River sediment on the continental shelf of Washington and Oregon [abstract].

GROSS, M. G.; BARNES, C. A.; RIEL, G. K., 1964, Radioactivity of the Columbia River discharge in the northeast Pacific Ocean in August 1963 [abstract].

HICKEY, B. M.; BAKER, E. T., 1983, Velocity and suspended sediment fluctuations in the vicinity of Quinault Submarine Canyon [abstract].

HORN, D. R.; HORN, B. M.; DELACH, M. N., 1968, Sonic properties of deep-sea cores from the North Pacific Basin and their bearing on the acoustic provinces of the North Pacific.

KELLEY, J. C.; MCMANUS, D. A., 1968, Evaluation of granulometric parameters for the recognition of sediment variability [abstract].

KELLEY, J. C.; MCMANUS, D. A., 1969, Separation of local variability from noise in sediment textural variables [abstract].

KRISSEK, L. A., 1982, Sources, dispersal, and contributions of fine-grained terrigenous sediments on the Oregon and Washington continental slope.*

MCMANUS, D. A., 1972, Bottom topography and sediment texture near the Columbia River mouth.

NITTROUER, C. A., 1978, The process of detrital sediment accumulation in a continental shelf environment--An examination of the Washington shelf.*

NOBES, D. C.; VILLINGER, H.; DAVIS, E. E.; LAW, L. K., 1986|,Estimation of marine sediment bulk physical properties at depth from seafloor geophysical measurements.

RUSSELL, K. L., 1967, Clay mineral origin and distribution on Astoria Fan.

SCAMMAN, R. L.; CARSON, BOBB, 1981, Secondary carbonate on the Washington-Oregon lower continental slope--Precipitation related to subduction? [abstract].

SEYMOUR, A. H.; LEWIS, G. B., 1964, Radionuclides of Columbia River origin in marine organisms, sediments, and water collected from the coastal and offshore waters of Washington and Oregon, 1961-63.

SHEPHARD, L. E., 1981, Geotechnical properties of select convergent margin sediments.*

SHOR, G. G., JR.; MENARD, H. W.; RAITT, R. W., 1970, Structure of the Pacific Basin.

SNYDER, G. W., 1984, Size distributions of suspended and bottom sediments in and around Quinault submarine canyon--Implications for modern sediment transport and accumulation off the Washington coast.

SNYDER, G. W.; CARSON, BOBB, 1982, Dispersal and accumulation of modern sediment in Quinault submarine canyon--Particle size, composition, and areal/temporal variability [abstract].

SNYDER, G. W.; CARSON, BOBB, 1986, Bottom and suspended particle sizes--Implications for modern sediment transport in Quinault submarine canyon.

SNYDER, G. W.; CARSON, BOBB; BAKER, E. T., 1983, Sediment dispersal and accumulation in Quinault Canyon--Implications of particle size analysis [abstract].

VENKATARATHNAM, KOLLA, 1969, Size distribution and mineral composition of the sediments of the inner continental shelf off northern Washington.

SEDIMENTS - GEOPHYSICS

WHITE, S. M., 1968, The mineralogy and geochemistry of the sediments on the continental shelf off the Washington-Oregon coast.*

SEDIMENTS - JUAN DE FUCA RIDGE

BLAISE, B.; BORNHOLD, B. D., 1986, Different sources for iron-rich smectite [abstract].

CHURCH, S. E., 1972, Trace element abundances in ocean sediments and altered basalts --Their implications for andesite genesis [abstract].

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

GROSS, M. G.; CAREY, A. G., JR.; FOWLER, G. A.; KULM, L. D., 1972, Distribution of organic carbon in surface sediments, northeast Pacific Ocean.

GRUNDMANIS, VARIS; MURRAY, J. W., 1978, Interstitial water chemistry in the Cascadia basin [abstract].

LEINEN, MARGARET, 1984, Rates of hydrothermal sedimentation on the Juan de Fuca Ridge [abstract].

LEVI, S.; RIDDIHOUGH, R. P., 1985, Why are marine magnetic anomalies suppressed over sedimented spreading centers? [abstract].

LEWISON, M. A.; FEELY, R. A.; CURL, H. C., JR.; GEISELMAN, T. L., 1986, Composition of smoker particulates from active vents within the caldera of Axial Volcano on the Juan de Fuca Ridge [abstract].

MAIRS, H.; LEINEN, MARGARET; OAKMAN, M. R.; JENKINS, J., 1985, A 600 ky record of hydrothermal sedimentation in the vicinity of the Juan de Fuca Ridge [abstract].

MAXWELL, J. C., 1974, Early western margin of the United States.

NOBES, D. C.; VILLINGER, H.; DAVIS, E. E.; LAW, L. K., 1985, Prediction of bulk physical properties at depth for middle valley sediments, Juan de Fuca Ridge [abstract].

NOBES, D. C.; VILLINGER, H.; DAVIS, E. E.; LAW, L. K., 1986, Estimation of marine sediment bulk physical properties at depth from seafloor geophysical measurements.

SHOR, G. G., JR.; MENARD, H. W.; RAITT, R. W., 1970, Structure of the Pacific Basin.

SEDIMENTS - MATHEMATICAL MODELS

KACHEL, N. B., 1972, Development of a model of sediment movement on the Washington continental shelf [abstract].

KACHEL, N. B., 1980, A time dependent model of sediment transport and strata formation on a continental shelf.*

KACHEL, N. B.; KELLEY, J. C., 1972, Computer simulation of sedimentation off the Washington coast [abstract].

SEDIMENTS - QUINAULT CANYON

BAKER, E. T., 1983, Present-day sedimentation patterns in Quinault submarine canyon, Washington continental slope [abstract].

CARSON, BOBB; BAKER, E. T., 1983, Processes of offshore sediment dispersal around a submarine canyon [abstract].

CARSON, BOBB; BAKER, E. T.; HICKEY, B. M.; NITTROUER, C. A.; DEMASTER, D. J.; THORBJARNARSON, K. W.; SNYDER, G. W., 1986, Modern sediment dispersal and accumulation in Quinault submarine canyon--A summary.

CARSON, BOBB; BAKER, E. T.; NITTROUER, C. A.; DEMASTER, D. J., 1982, Modern sediment transport and accumulation in Quinault submarine canyon, Washington continental slope [abstract].

CARSON, BOBB; SNYDER, G. W.; BAKER, E. T., 1984, Sediment dispersal and accumulation in Quinault Canyon--Introduction and implications of particle size analysis [abstract].

CUTSHALL, N. H.; LARSEN, I. L.; OLSEN, C. R.; NITTROUER, C. A.; DEMASTER, D. J., 1983, Columbia River sediment in Quinault Canyon--Implications for deep ocean waste disposal [abstract].

CUTSHALL, N. H.; LARSEN, I. L.; OLSEN, C. R.; NITTROUER, C. A.; DEMASTER, D. J., 1986, Columbia River sediment in Quinault Canyon, Washington--Evidence from artificial radionuclides.

DEMASTER, D. J.; HOFFMAN, P. A.; NITTROUER, C. A.; THORBJARNARSON, K. W., 1983, Th-234 and Pb-210 fluxes from particle traps in Quinault Submarine Canyon, Washington [abstract].

GROSS, M. G.; MCMANUS, D. A.; CREAGER, J. S., 1963, Preliminary report on the sediments and radioactivity in the vicinity of the Columbia River effluent.

HEDGES, J. I.; MANN, D. C., 1979, The lignin geochemistry of marine sediments from the southern Washington coast.

HICKEY, B. M.; BAKER, E. T., 1983, Velocity and suspended sediment fluctuations in the vicinity of Quinault Submarine Canyon [abstract].

HORN, D. R.; HORN, B. M.; DELACH, M. N., 1972, Ferromanganese deposits of the north Pacific Ocean.

KRAFFT, A. D., 1984, Mineral and chemical composition of suspended and bottom sediments, Quinault submarine canyon.

NITTROUER, C. A.; STERNBERG, R. W.; HOLMES, M. L., 1977, Shallow stratigraphy and Holocene sedimentation on the Washington continental shelf [abstract].

SNYDER, G. W., 1984, Size distributions of suspended and bottom sediments in and around Quinault submarine canyon--Implications for modern sediment transport and accumulation off the Washington coast.

SNYDER, G. W.; CARSON, BOBB, 1982, Dispersal and accumulation of modern sediment in Quinault submarine canyon--Particle size, composition, and areal/temporal variability [abstract].

SNYDER, G. W.; CARSON, BOBB, 1986, Bottom and suspended particle sizes--Implications for modern sediment transport in Quinault submarine canyon.

SNYDER, G. W.; CARSON, BOBB; BAKER, E. T., 1983, Sediment dispersal and accumulation in Quinault Canyon--Implications of particle size analysis [abstract].

THORBJARNARSON, K. W.; NITTROUER, C. A.; DEMASTER, D. J., 1983, Modern sediment accumulation in Quinault Submarine Canyon, Washington [abstract].

THORBJARNARSON, K. W.; NITTROUER, C. A.; DEMASTER, D. J., 1986, Accumulation of modern sediment in Quinault submarine canyon.

SEDIMENTS - RADIOACTIVITY SURVEYS

BARNES, C. A.; GROSS, M. G., 1966, Distribution at sea of Columbia River water and its load of radionuclides.

BEASLEY, T. M.; CARPENTER, ROY; JENNINGS, C. D., 1982, Plutonium, 241Am and 137Cs ratios, inventories and vertical profiles in Washington and Oregon continental shelf sediments.

CARPENTER, ROY; BEASLEY, T. M., 1985, Plutonium, 241Am, 137Cs and 210Pb activities in continental slope sediments off Washington [abstract].

CUTSHALL, N. H., 1967, Chromium-51 in the Columbia River and adjacent Pacific Ocean.*

CUTSHALL, N. H.; RENFRO, W. C.; EVANS, D. W.; JOHNSON, V. G., 1971, Zinc-65 in Oregon-Washington continental shelf sediments.

FORSTER, W. O., 1972, Radionuclide distribution in Columbia River and adjacent Pacific shelf sediments.

GROSS, M. G., 1963, Radioactivity of marine sediments near the Columbia River in 1962 [abstract].

GROSS, M. G., 1965, Distribution of radioactive Columbia River sediment on the Washington-Oregon continental shelf [abstract].

GROSS, M. G., 1968, Distribution and movement of radioactive Columbia River sediment on the continental shelf of Washington and Oregon [abstract].

GROSS, M. G., 1972, Sediment-associated radionuclides from the Columbia River.

GROSS, M. G.; BARNES, C. A.; RIEL, G. K., 1964, Radioactivity of the Columbia River discharge in the northeast Pacific Ocean in August 1963 [abstract].

SMETHIE, W. M., JR.; NITTROUER, C. A., 1980, The use of radon-222 as a tracer of sediment irrigation and mixing on the Washington continental shelf [abstract].

SMETHIE, W. M., JR.; NITTROUER, C. A.; SELF, R. F. L., 1981, The use of Radon-222 as a tracer of sediment irrigation and mixing on the Washington continental shelf.

SEDIMENTS - SUBDUCTION ZONE DEFORMATION

BARNARD, W. D., 1973, Late Pleistocene deformation of Cascadia Basin turbidites along Washington continental margin [abstract].

CARSON, BOBB, 1974, Sediment modification related to subduction--Washington-Oregon continental margin [abstract].

CARSON, BOBB, 1974, Tectonically induced consolidation of deep-sea sediments at a subducting continental margin [abstract].

CARSON, BOBB, 1975, Carbonate dissolution in "offscraped" deep-sea sediments--An integral part of the subduction process? [abstract].

CARSON, BOBB, 1977, Tectonically induced deformation of deep-sea sediments off Washington and northern Oregon--Mechanical consolidation.

CARSON, BOBB; RITGER, S. D.; SUESS, ERWIN, 1984, Precipitation of carbonate crust associated with subduction-induced pore-

water expulsion--Washington-Oregon continental slope [abstract].

CARSON, BOBB; YUAN, J.-W.; MYERS, P. B., JR.; BARNARD, W. D., 1974, Initial deep-sea sediment deformation at the base of the Washington continental slope--A response to subduction.

COUCH, R. W.; CONNARD, GERRY; KIENLE, C. R., 1980, Sediment thicknesses and tectonic lineations of the northern Juan de Fuca plate and Washington continental margin [abstract].

DAVIS, E. E.; YORATH, C. J.; HYNDMAN, R. D.; CURRIE, R. G.; BORNHOLD, B. D.; BRANDON, M. T.; CLOWES, R. M., 1986, The deformation front of the northern Cascadia subduction zone in plan and cross section [abstract].

KULM, L. D.; SCHEIDEGGER, K. F., 1979, Quaternary sedimentation on the tectonically active Oregon continental slope.

SCAMMAN, R. L.; CARSON, BOBB, 1981, Secondary carbonate on the Washington-Oregon lower continental slope--Precipitation related to subduction? [abstract].

SCHWELLER, W. J.; KULM, L. D., 1978, Depositional patterns and channelized sedimentation in active eastern Pacific trenches.

SUESS, ERWIN; MASSOTH, G. J., 1984, Evidence for venting of pore waters from subducted sediments of the Oregon continental margin [abstract].

SEDIMENTS - TRANSPORT

BAKER, E. T., 1983, Present-day sedimentation patterns in Quinault submarine canyon, Washington continental slope [abstract].

BARNES, C. A.; GROSS, M. G., 1966, Distribution at sea of Columbia River water and its load of radionuclides.

CARSON, BOBB; BAKER, E. T., 1983, Processes of offshore sediment dispersal around a submarine canyon [abstract].

CARSON, BOBB; BAKER, E. T.; NITTROUER, C. A.; DEMASTER, D. J., 1982, Modern sediment transport and accumulation in Quinault submarine canyon, Washington continental slope [abstract].

CUTSHALL, N. H.; LARSEN, I. L.; OLSEN, C. R.; NITTROUER, C. A.; DEMASTER, D. J., 1986, Columbia River sediment in Quinault Canyon, Washington--Evidence from artificial radionuclides.

GROSS, M. G.; NELSON, J. L., 1966, Sediment movement on the continental shelf near Washington and Oregon.

HEALY, M. J.; CARSON, BOBB, 1983, Dispersal rates of Mount St. Helens ash across the Washington continental shelf--1980-1981 [abstract].

HICKEY, B. M.; BAKER, E. T., 1983, Velocity and suspended sediment fluctuations in the vicinity of Quinault Submarine Canyon [abstract].

KACHEL, N. B., 1972, Development of a model of sediment movement on the Washington continental shelf [abstract].

KACHEL, N. B., 1980, A time dependent model of sediment transport and strata formation on a continental shelf.*

KACHEL, N. B., 1982, Effects of combined waves and currents on erosion, transport, and stratigraphy on a continental shelf [abstract].

KACHEL, N. B., 1982, Sediment transport, deposition, and strata formation on a continental shelf [abstract].

KRAFFT, A. D., 1984, Mineral and chemical composition of suspended and bottom sediments, Quinault submarine canyon.

KRISSEK, L. A., 1982, Sources, dispersal, and contributions of fine-grained terrigenous sediments on the Oregon and Washington continental slope.*

KRISSEK, L. A., 1984, Continental source area contributions to fine-grained sediments on the Oregon and Washington continental slope.

KRISSEK, L. A.; SCHEIDEGGER, K. F., 1981, Sources and dispersal of terrigenous sediments on the Oregon-Washington continental slope [abstract].

KRISSEK, L. A.; SCHEIDEGGER, K. F., 1982, Multiple sediment sources and fine silt depositional patterns on the Oregon-Washington continental slope [abstract].

MORSE, B.-A.; GROSS, M. G.; BARNES, C. A., 1968, Movement of seabed drifters near the Columbia River.*

NITTROUER, C. A.; STERNBERG, R. W., 1977, The new continental shelf sedimentology--A multi-systems approach to the investigation of allochthonous sedimentation [abstract].

NITTROUER, C. A.; STERNBERG, R. W., 1981, The formation of sedimentary strata in an allochthonous shelf environment--The Washington continental shelf.

SMITH, J. D.; HOPKINS, T. S., 1972, Sediment transport on the continental shelf off of Washington and Oregon in light of recent current measurements.*

SNYDER, G. W., 1984, Size distributions of suspended and bottom sediments in and around Quinault submarine canyon--Implications for modern sediment transport and accumulation off the Washington coast.

SNYDER, G. W.; CARSON, BOBB, 1986, Bottom and suspended particle sizes--Implications for modern sediment transport in Quinault submarine canyon.

SNYDER, G. W.; CARSON, BOBB; BAKER, E. T., 1983, Sediment dispersal and accumulation in Quinault Canyon--Implications of particle size analysis [abstract].

STERNBERG, R. W.; LARSEN, L. H., 1975, Threshold of sediment movement by open ocean waves--Observations.

STERNBERG, R. W.; LARSEN, L. H., 1976, Frequency of sediment movement on the Washington continental shelf--A note.

STERNBERG, R. W.; MCMANUS, D. A., 1972, Implications of sediment dispersal from long-term, bottom-current measurements on the continental shelf of Washington.

THORBJARNARSON, K. W.; NITTROUER, C. A.; DEMASTER, D. J., 1983, Modern sediment accumulation in Quinault Submarine Canyon, Washington [abstract].

Seismic surveys, see GEOPHYSICS - SEISMIC SURVEYS

Seismology, see EARTHQUAKES AND SEISMOLOGY

SILVER

BALLARD, R. D.; BISCHOFF, J. L., PANEL CHAIRMEN, 1984, Assessment and scientific understanding of hard mineral resources in the EEZ.

SOUTHWEST HYDROTHERMAL VENT FIELD

TUNNICLIFFE, VERENA, 1986, Cruise reports--PANDORA II/PISCES IV, 10 July-5 August, 1986.

STRATIGRAPHY

see also subdivision STRATIGRAPHY under specific geographic areas, e. g., CASCADIA BASIN - STRATIGRAPHY

BARNARD, W. D.; MCMANUS, D. A., 1973, Planktonic foraminiferan-radiolarian stratigraphy and the Pleistocene-Holocene boundary in the northeast Pacific.

COLE, M. R.; ARMENTROUT, J. M., 1979, Neogene paleogeography of the western United States.

FOWLER, G. A., 1977, Radiolarian-planktonic Foramininfera ratios and Pleistocene deep-sea stratigraphy in the northeastern Pacific off Oregon and Washington [abstract].

FOWLER, G. A.; KULM, L. D.; DUNCAN, J. R.; GRIGGS, G. B., 1969, Late Quaternary deep-sea stratigraphy and paleoclimatology of a middle to high region, northeastern Pacific [abstract].

HEUSSER, C. J.; FLORER, L. E., 1973, Correlation of marine and continental Quaternary pollen records from the northeast Pacific and western Washington.

HEUSSER, L. E.; BALSAM, W. L., 1977, Pollen distribution in the northeast Pacific Ocean.

HORN, D. R.; DELACH, M. N.; HORN, B. M., 1969, Distribution of volcanic ash layers and turbidites in the north Pacific.

INGLE, J. C., JR., 1966, Pliocene-Miocene boundary in temperate eastern Pacific [abstract].

SCHOLL, D. W., 1974, Sedimentary sequences in the north Pacific trenches.

STRATIGRAPHY - CASCADIA BASIN

CARSON, BOBB, 1971, Stratigraphy and depositional history of Quaternary sediments in northern Cascade Basin and Juan de Fuca abyssal plain, northeast Pacific Ocean.*

CARSON, BOBB; MCMANUS, D. A., 1969, The stratigraphy of northern Cascadia Basin--A statistical evaluation [abstract].

CARSON, BOBB; MCMANUS, D. A., 1971, Analysis of turbidite correlation in Cascadia Basin, northeast Pacific Ocean.

GRIGGS, G. B.; KULM, L. D.; DUNCAN, J. R.; FOWLER, G. A., 1970, Holocene faunal stratigraphy and paleoclimatic implications of deep-sea sediments in Cascadia basin.

NELSON, C. H., 1985, Astoria Fan, Pacific Ocean.

STRATIGRAPHY - CONTINENTAL MARGIN

NELSON, C. H., 1985, Astoria Fan, Pacific Ocean.

BENNETT, L. C., JR.; ECHOLS, R. J., 1971, Shallow seismic stratigraphy on the continental shelf of Washington [abstract].

CONNARD, GERRY; COUCH, R. W.; KEELING, KENNETH; ROY, J.; TROSETH, S., COMPILERS, 1984, Abyssal plain and continental net-objective sedimentary thicknesses.

DANNER, W. R., 1970, Paleontologic and stratigraphic evidence for and against sea floor spreading and opening and closing oceans in the Pacific Northwest [abstract].

DEACON, R. J.; NEWTON, V. C., JR., 1965, Review of coastal stratigraphy of Oregon and Washington with comments on 1965 activity [abstract].

DUNCAN, J. R.; FOWLER, G. A.; KULM, L. D., 1970, Planktonic foraminiferan-radiolarian ratios and Holocene-late Pleistocene deep sea stratigraphy off Oregon.

KILBOURNE, R. T.; GIBSON, C. N., 1979, Use of Neogloboquadrina pachyderma (Ehrenberg) coiling ratio curves for chronostratigraphic correlations of Quaternary marine sediments along the west coast [abstract].

NITTROUER, C. A.; STERNBERG, R. W., 1978, Shallow stratigraphy and Holocene sedimentation on the Washington continental shelf [abstract].

NITTROUER, C. A.; STERNBERG, R. W., 1980, The formation of sedimentary strata in a continental shelf environment [abstract].

NITTROUER, C. A.; STERNBERG, R. W.; HOLMES, M. L., 1977, Shallow stratigraphy and Holocene sedimentation on the Washington continental shelf [abstract].

PETERSON, C. P.; LOUBERE, P. W.; KULM, L. D.; PEPER, J. S., COMPILERS, 1984, Stratigraphy of continental shelf and coastal region.

SNAVELY, P. D., JR., 1979, Stratigraphic and tectonic framework, Oregon-Washington continental margin [abstract].

SNAVELY, P. D., JR.; WAGNER, H. C., 1980, Generalized isopach map of Tertiary sedimentary rocks, western Oregon and Washington, and adjacent continental margin.

U.S. GEOLOGICAL SURVEY, 1974, Oligocene continental slope beneath Juan de Fuca [abstract].

STRATIGRAPHY - JUAN DE FUCA RIDGE

MAIRS, H.; LEINEN, MARGARET; OAKMAN, M. R.; JENKINS, J., 1985, A 600 ky record of hydrothermal sedimentation in the vicinity of the Juan de Fuca Ridge [abstract].

STRUCTURAL GEOLOGY

see also

SUBDUCTION AND THE SUBDUCTION ZONE
TECTONICS AND PLATE TECTONICS

see also subdivision STRUCTURES AND TECTONICS under specific geographic areas, e. g., CASCADIA BASIN - STRUCTURES AND TECTONICS

CARSON, BOBB, 1976, Tectonic consolidation of deep-sea sediments--Preliminary results of laboratory simulation [abstract].

CHRISTENSEN, N. I., 1970, Oceanic crustal composition in the northeast Pacific [abstract].

DEHLINGER, PETER; COUCH, R. W.; MCMANUS, D. A.; GEMPERLE, MICHAEL, 1970, Northeast Pacific structure.

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

SOKOLOV, B. A.; NESMEYANOV, D. V.; GAYNANOV, A. G.; SEREGIN, A. M., 1976, Geological structure and petroleum potential of the Pacific segment.

STRUCTURAL GEOLOGY - CASCADIA BASIN

ELVERS, D. J.; WALTON, FRED; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO, 1972, Deformation of the sea floor as revealed by seismic reflection and systematic gravity and magnetic measurements from the Tufts Abyssal Plain to the Washington-Oregon coast [abstract].

STRUCTURAL GEOLOGY - CONTINENTAL MARGIN

BARNARD, W. D., 1973, Late Pleistocene deformation of Cascadia Basin turbidites along Washington continental margin [abstract].

BOGGS, SAM, JR.; KOMAR, P. D., 1977, Geological oceanography.

BORNHOLD, B. D.; BRANDON, M. T.; CLOWES, R. M.; CURRIE, R. G.; DAVIS, E. E.; HUSSONG, D. M.; HYNDMAN, R. D.; RIDDIHOUGH, R. P.; ROGERS, G. C.; YORATH, C. J., 1986, Recent acoustic studies of western Canadian continental margin [abstract].

BOSTROM, R. C., 1968, The ocean ridge system in the northeast Pacific.

CARSON, BOBB; YUAN, J.-W., 1972, Pattern of deep-sea sediment deformation at a compressive continental margin [abstract].

COUCH, R. W., 1969, Gravity and structures of the continental margin off Washington and British Columbia [abstract].

COUCH, R. W., 1969, Gravity and structures of the crust and subcrust in the northeast Pacific Ocean west of Washington and British Columbia.*

COUCH, R. W., 1972, Gravity and structure of the continental margin of the northeast Pacific Ocean [abstract].

LISTER, C. R. B., 1969, Studies of oceanic tectonics utilizing detailed surveying and stratigraphy.

PETER, GEORGE, 1969, Magnetic structural provinces in the northeast Pacific Ocean [abstract].

RAFF, A. D., 1966, Boundaries of an area of very long magnetic anomalies in the northeast Pacific.

ROGERS, G. C., 1987, Megathrust potential of the Cascadia subduction zone [abstract].

SNAVELY, P. D., JR., 1986, Tertiary evolution and petroleum potential of Oregon-Washington continental margin [abstract].

SNAVELY, P. D., JR.; PEARL, J. E., 1978, Potential petroleum reservoirs within Tertiary melange, coastal Olympic Peninsula and adjacent OCS [abstract].

WAGNER, H. C., 1985, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental shelf and upper continental slope off southwestern Washington between latitudes 46 degrees N. and 47 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W.

WAGNER, H. C.; BATATIAN, L. D.; LAMBERT, T. M.; TOMSON, J. H., 1986, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental slope off southwestern Washington between latitudes 46 degrees N. and 48 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W.

WILSON, J. T., 1965, Transform faults, oceanic ridges, and magnetic anomalies southwest of Vancouver Island.

STRUCTURAL GEOLOGY - JUAN DE FUCA RIDGE

CARLSON, R. L., 1980, Clockwise rotations of the Juan de Fuca Ridge and Gorda Rise--A case study [abstract].

DAVIS, E. E.; LISTER, C. R. B., 1972, Crustal structure of the Juan de Fuca Ridge [abstract].

DELANEY, J. R.; KARSTEN, J. L.; JOHNSON, H. P.; CHASE, R. L.; SCOTT, S. D.; TUNNICLIFFE, VERENA; HAMMOND, S. R., 1983, Structural control of hydrothermal vents and sulfide structures on the 'Axial seamount,' Juan de Fuca [abstract].

ELVERS, D. J.; WALTON, FRED; SRIVASTAVA, S. P.; MACNAB, R.; KAGAMI, HIDEO, 1972, Deformation of the sea floor as revealed by seismic reflection and systematic gravity and magnetic measurements from the Tufts Abyssal Plain to the Washington-Oregon coast [abstract].

FOX, K. F., JR., 1983, Northeast-trending subcrustal fault transects western Washington.

HAMMOND, S. R.; MALAHOFF, ALEXANDER, 1982, Structure of the Juan de Fuca Ridge hotspot region from seabeam bathymetry [abstract].

JOHNSON, H. P.; HOLMES, M. L.; GARDNER, J. V.; CAMPBELL, J. F., 1984, A detailed side-scan sonar study of a propagating rift--SeaMARC II on the northern Juan de Fuca Ridge [abstract].*

KAPPEL, E. S.; RYAN, W. B. F., 1986, Volcanic episodicity and a non-steady state rift valley along northeast Pacific spreading centers--Evidence from Sea MARC I.

KARSTEN, J. L.; DELANEY, J. R., 1986, Hot spot/migrating ridge crest interaction--Juan de Fuca style [abstract].

MALAHOFF, ALEXANDER; EMBLEY, R. W.; HAMMOND, S. R., 1982, A seabeam study of the Juan de Fuca and Gorda Ridge axial rift processes [abstract].

MORGAN, W. J., 1968, Pliocene reconstruction of the Juan de Fuca Ridge [abstract].

PALMER, JEB; DELANEY, J. R., 1987, Progressive merging of uniaxial and radial stress fields during ridge crest-hot spot convergence [abstract].

PAVONI, N., 1971, Interpretation of the magnetic anomalies southwest of Vancouver Island.

PETER, GEORGE; DEWALD, O. E., 1971, Deformation of the sea floor off the northwest coast of the United States.

PETER, GEORGE; LATTIMORE, ROBERT, 1969, Magnetic structure of the Juan de Fuca-Gorda Ridge area.

SHOR, G. G., JR.; MENARD, H. W.; RAITT, R. W., 1970, Structure of the Pacific Basin.

WAHLSTROM, R.; ROGERS, G. C.; ELLIS, R. M., 1987, Seismicity reassessment and earthquake focal mechanisms for the northern Juan de Fuca Ridge system [abstract].

YORATH, C. J.; CURRIE, R. G.; DAVIS, E. E.; RIDDIHOUGH, R. P., 1984, Exploring Juan de Fuca Ridge system [abstract].

SUBDUCTION AND THE SUBDUCTION ZONE

see also

CONTINENTAL SLOPE - SUBDUCTION
JUAN DE FUCA PLATE - SUBDUCTION

ACHARYA, HEMENDRA, 1981, Juan de Fuca plate --Aseismic subduction at 1.8 cm/yr.

COWAN, D. S., 1981, Structural styles in Mesozoic melanges along the Pacific margin of North American and their relation to subduction tectonics [abstract].

DOSSO, H. W.; NIENABER, W., 1985, Model study of EM induction in the Juan de Fuca plate region [abstract].

DRAKE, E. T., 1981, Robert Hooke and the foundation of geology--A comparison of Steno and Hooke and the Hooke imprint on the Huttonian theory; The tectonic evolution of the Oregon continental margin--Rotation of segment boundaries and possible space-time relationships in the central high Cascades.*

FARRAR, E.; DIXON, J. M., 1979, Has the North Pacific spreading center been subducted beneath Oregon, Washington and British Columbia? [abstract].

MCWILLIAMS, R. G., 1978, Early Tertiary rifting in western Oregon-Washington.

NISHIMURA, C. E.; WILSON, D. S.; HEY, R. N., 1981, Present-day subduction of the Juan de Fuca plate [abstract].

RIDDIHOUGH, R. P., 1981, Absolute motions of the Juan de Fuca plate system--Resistance to subduction? [abstract].

RIDDIHOUGH, R. P., 1984, The geometry of the subducted Juan de Fuca plate [abstract].

ROGERS, G. C., 1985, Variation in Cascade volcanism with margin orientation.*

SILVER, E. A., 1975, Tectonic setting of the continental margin off the western United States [abstract].

SPENCE, WILLIAM, 1986, Origins of stresses at the Cascadia subduction zone, U.S. Pacific Northwest [abstract].

WEAVER, C. S.; MICHAELSON, C. A., 1983, Segmentation of the Juan de Fuca plate and volcanism in the Cascade Range [abstract].

SUBDUCTION AND THE SUBDUCTION ZONE - EARTHQUAKES AND SEISMOLOGY

ADAMS, JOHN, 1984, Active deformation of the Pacific Northwest continental margin.

CROSSON, R. S., 1986, Earthquake hazard investigations in the Pacific Northwest.

CROSSON, R. S., 1986, Where is the subducting slab beneath the Pacific Northwest? [abstract].

HEATON, T. H.; HARTZELL, S. H., 1985, Northwest U.S. subduction zone risk assessment.

HEATON, T. H.; HARTZELL, S. H., 1986, Source characteristics of hypothetical subduction earthquakes in the northwestern United States.

HEATON, T. H.; HARTZELL, S. H., 1987, Earthquake hazards on the Cascadia subduction zone.

ROGERS, G. C., 1983, Seismotectonics of the Juan de Fuca plate subduction zone [abstract].

ROGERS, G. C., 1987, Megathrust potential of the Cascadia subduction zone [abstract].

SPENCE, WILLIAM, 1986, Seismicity and tectonics.

TABER, J. J., JR.; SMITH, S. W., 1985, Seismicity and focal mechanisms associated with the subduction of the Juan de Fuca plate beneath the Olympic Peninsula, Washington.

SCHWARTZ, D. P., 1986, Subduction zone earthquakes in the Pacific Northwest--Evaluating the potential--Thoughts for discussion at the Seattle workshop.

TABER, J. J., JR.; WEAVER, C. S., 1983, Seismicity of the Olympic Peninsula, Washington [abstract].

WEAVER, C. S., 1985, Geothermal seismotectonic studies.

WEAVER, C. S.; MICHAELSON, C. A., 1985, Seismicity and volcanism in the Pacific Northwest--Evidence for the segmentation of the Juan de Fuca Plate.

SUBDUCTION AND THE SUBDUCTION ZONE - GEOPHYSICS

ADAMS, JOHN, 1984, Active deformation of the Pacific Northwest continental margin.

CHEN, J.; NIENABER, W.; DOSSO, H. W., 1986, Electromagnetic induction in the Pacific north-west coastal region [abstract].

CLOWES, R. M.; BRANDON, M. T.; GREEN, A. G.; YORATH, C. J.; SUTHERLAND BROWN, A.; KANASEWICH, E. R.; SPENCER, C., 1987, LITHOPROBE--Southern Vancouver Islands--Cenozoic subduction complex imaged by deep seismic reflections.

COCHRANE, G. R.; LEWIS, B. T. R., 1984, Comparison of structures in underthrusting and overthrusting lower slope sediments of the Washington-Oregon convergent margin [abstract].

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

HENDRICKSON, M. A., 1986, The determination of seismic structure from teleseismic P waveforms on the Washington continental margin.

MCCLAIN, K. J.; TABER, J. J., JR.; CROSSON, R. S.; LEWIS, B. T. R., 1981, Geophysical structure of the Washington active margin [abstract].

MICHAELSON, C. A.; WEAVER, C. S., 1986, Upper mantle structure from teleseismic P wave arrivals in Washington and northern Oregon.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

RIDDIHOUGH, R. P., 1979, Gravity and structure of an active margin--British Columbia and Washington.

TABER, J. J., JR.; LEWIS, B. T. R., 1986, Crustal structure of the Washington continental margin from refraction data.

TABER, J. J., JR.; SMITH, S. W., 1985, Seismicity and focal mechanisms associated with the subduction of the Juan de Fuca plate beneath the Olympic Peninsula, Washington.

SUBDUCTION AND THE SUBDUCTION ZONE - MINERAL RESOURCES

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

RONA, P. A., 1983, Potential mineral and energy resources at submerged plate boundaries.

SUBDUCTION AND THE SUBDUCTION ZONE - SEDIMENTS

CARSON, BOBB, 1974, Sediment modification related to subduction--Washington-Oregon continental margin [abstract].

CARSON, BOBB, 1975, Carbonate dissolution in "offscraped" deep-sea sediments--An integral part of the subduction process? [abstract].

CARSON, BOBB, 1974, Tectonically induced consolidation of deep-sea sediments at a subducting continental margin [abstract].

CARSON, BOBB, 1977, Tectonically induced deformation of deep-sea sediments off Washington and northern Oregon--Mechanical consolidation.

CARSON, BOBB; RITGER, S. D.; SUESS, ERWIN, 1984, Precipitation of carbonate crust associated with subduction-induced pore-water expulsion--Washington-Oregon continental slope [abstract].

CARSON, BOBB; YUAN, J.-W.; MYERS, P. B., JR.; BARNARD, W. D., 1974, Initial deep-sea sediment deformation at the base of the Washington continental slope--A response to subduction.

COUCH, R. W.; CONNARD, GERRY; KIENLE, C. R., 1980, Sediment thicknesses and tectonic lineations of the northern Juan de Fuca plate and Washington continental margin [abstract].

DAVIS, E. E.; YORATH, C. J.; HYNDMAN, R. D.; CURRIE, R. G.; BORNHOLD, B. D.; BRANDON, M. T.; CLOWES, R. M., 1986, The deformation front of the northern Cascadia subduction zone in plan and cross section [abstract].

RITGER, S. D.; CARSON, BOBB; SUESS, ERWIN, 1987, Methane-derived authigenic carbonates formed by subduction-induced pore-water expulsion along the Oregon/Washington margin.

SCAMMAN, R. L.; CARSON, BOBB, 1981, Secondary carbonate on the Washington-Oregon lower continental slope--Precipitation related to subduction? [abstract].

SUESS, ERWIN; MASSOTH, G. J., 1984, Evidence for venting of pore waters from subducted sediments of the Oregon continental margin [abstract].

SUBMARINE CANYONS

CARSON, BOBB; MCMANUS, D. A., 1968, Juan de Fuca submarine canyon--A study of continental slope development [abstract].

GRIGGS, G. B., 1969, Cascadia channel--The anatomy of a deep-sea channel.*

GRIGGS, G. B.; KULM, L. D., 1970, Physiography of Cascadia deep-sea channel.

NELSON, C. H.; CARLSON, P. R.; BYRNE, J. V.; ALPHA, T. R., 1970, Development of the Astoria Canyon-fan physiography and comparison with similar systems.

SUBMARINE CANYONS - SEDIMENTS

BAKER, E. T., 1983, Present-day sedimentation patterns in Quinault submarine canyon, Washington continental slope [abstract].

BAKER, E. T.; HICKEY, B. M., 1986, Contemporary sedimentation processes in and around an active west coast submarine canyon.

CARSON, BOBB; BAKER, E. T.; HICKEY, B. M.; NITTROUER, C. A.; DEMASTER, D. J.; THORBJARNARSON, K. W.; SNYDER, G. W., 1986, Modern sediment dispersal and accumulation in Quinault submarine canyon--A summary.

CUTSHALL, N. H.; LARSEN, I. L.; OLSEN, C. R.; NITTROUER, C. A.; DEMASTER, D. J., 1983, Columbia River sediment in Quinault Canyon--Implications for deep ocean waste disposal [abstract].

CUTSHALL, N. H.; LARSEN, I. L.; OLSEN, C. R.; NITTROUER, C. A.; DEMASTER, D. J., 1986, Columbia River sediment in Quinault Canyon, Washington--Evidence from artificial radionuclides.

DEMASTER, D. J.; HOFFMAN, P. A.; NITTROUER, C. A.; THORBJARNARSON, K. W., 1983, Th-234 and Pb-210 fluxes from particle traps in Quinault Submarine Canyon, Washington [abstract].

EEZ-SCAN GROUP (CACCHIONE, D. A.; DRAKE, D. E.; EDWARDS, B. D.; FIELD, M. E.; GARDNER, J. V.; HAMPTON, M. A.; KARL, H. A.; MCCULLOCH, D. S.; KENYON, N. H.; MASSON, D. G.), 1986, Geomorphology of the western United States Exclusive Economic Zone--A GLORIA view.

HICKEY, B. M.; BAKER, E. T., 1983, Velocity and suspended sediment fluctuations in the vicinity of Quinault Submarine Canyon [abstract].

KRAFFT, A. D., 1984, Mineral and chemical composition of suspended and bottom sediments, Quinault submarine canyon.

NELSON, C. H.; NORMARK, W. R.; BOUMA, A. H.; CARLSON, P. R., 1978, Thin-bedded turbidites in modern submarine canyons and fans.

SHEPARD, F. P.; DILL, R. F., 1966, repr. 1976, Summary characteristics and dimensions of submarine canyons.

SNYDER, G. W., 1984, Size distributions of suspended and bottom sediments in and around Quinault submarine canyon--Implications for modern sediment transport and accumulation off the Washington coast.

SNYDER, G. W.; CARSON, BOBB, 1982, Dispersal and accumulation of modern sediment in Quinault submarine canyon--Particle size, composition, and areal/temporal variability [abstract].

SNYDER, G. W.; CARSON, BOBB, 1986, Bottom and suspended particle sizes--Implications for modern sediment transport in Quinault submarine canyon.

THORBJARNARSON, K. W.; NITTROUER, C. A.; DEMASTER, D. J., 1986, Accumulation of modern sediment in Quinault submarine canyon.

SULFIDES - JUAN DE FUCA RIDGE

BALLARD, R. D.; BISCHOFF, J. L., PANEL CHAIRMEN, 1984, Assessment and scientific understanding of hard mineral resources in the EEZ.

BUTLER, B. F., 1982, An examination of the application of the draft convention on the Law of the Sea to prospective polymetallic sulfide mining at ocean rift zones.

CALIFORNIA MINING JOURNAL, 1983, Juan de Fuca Ridge minerals analyzed and separated.

DELANEY, J. R.; JOHNSON, H. P.; KINGSTON, M. J., 1983, Sulfide samples from the Juan de Fuca Ridge at 47 degrees 57' N and 129 degrees 06' W [abstract].

DELANEY, J. R.; KARSTEN, J. L.; JOHNSON, H. P.; CHASE, R. L.; SCOTT, S. D.; TUNNICLIFFE, VERENA; HAMMOND, S. R., 1983, Structural control of hydrothermal vents and sulfide structures on the 'Axial seamount,' Juan de Fuca [abstract].

HANNINGTON, M. D.; PETER, J. M.; SCOTT, S. D., 1986, Gold in sea-floor polymetallic sulfide deposits.

HANNINGTON, M. D.; SCOTT, S. D., 1986, Processes of sulfide accumulation in sea-floor polymetallic sulfide deposits--Axial seamount and southern Explorer Ridge [abstract].

HERLIHY, D. R., 1985, Conflicts of interest over polymetallic sulfide minerals on the Gorda-Juan de Fuca Ridge system.

KINGSTON, M. J.; DELANEY, J. R., 1983, Sulfide deposits from the Endeavour segment of the Juan de Fuca Ridge--Comparison with other seafloor occurrences [abstract].

LEINEN, MARGARET, 1985, Mineralogy of hydrothermal precipitates within and near active vents on the Juan de Fuca Ridge and Explorer Ridge [abstract].

MALAHOFF, ALEXANDER, 1985, Hydrothermal vents and polymetallic sulfides of the Galapagos and Gorda/Juan de Fuca Ridge systems and of submarine volcanoes.

MCKELVEY, V. E., 1982, Subsea polymetallic sulfide deposits.

MCKELVEY, V. E.; WANG, F. F. H., 1969, World subsea mineral resources.

OAKMAN, M. R.; LEINEN, MARGARET, 1985, Preliminary studies of oxidized sulfide deposits from the Endeavour segment, Juan de Fuca Ridge, and Explorer Ridge [abstract].

RONA, P. A., 1983, Potential mineral and energy resources at submerged plate boundaries.

ROWLAND, R. W.; MCGREGOR, B. A., 1984, Recommendations from the Department of the Interior EEZ Symposium.

SCOTT, S. D.; HANNINGTON, M. D.; CHASE, R. L.; MICHAEL, P. J., 1986, An overview of the southern Explorer (SER) and Juan de Fuca (JFR) Ridge systems and their sulfide deposits [abstract].

SHANKS, W. C., III; SEYFRIED, W. E., JR., 1985, Sulfur isotopic fractionation, anhydrite dissolution, and sulfate reduction--Juan de Fuca Ridge and other seafloor hydrothermal vent systems [abstract].

THE MERGE GROUP (KARSTEN, J. L.; DELANEY, J. R.; JOHNSON, P.; GOLDFARB, M.; KELLEY, D.; MCDUFF, R. E.; TIVEY, M. K.; TIVEY, M.; DYMOND, JACK; AND OTHERS), 1984, Regional setting and local character of a hydrothermal field/sulfide deposit on the Endeavor segment of the Juan de Fuca Ridge [abstract].

TUNNICLIFFE, VERENA, 1986, Cruise reports--PANDORA II/PISCES IV, 10 July-5 August, 1986.

VAN DER VOORT, J. L.; MIELKE, J. E., 1982, Report on marine hydrothermal metal deposits.

YORATH, C. J.; CURRIE, R. G.; DAVIS, E. E.; RIDDIHOUGH, R. P., 1984, Exploring Juan de Fuca Ridge system [abstract].

TECTONICS AND PLATE TECTONICS

see also

JUAN DE FUCA PLATE
NORTH AMERICAN PLATE
PACIFIC PLATE

see also subdivision STRUCTURES AND TECTONICS under specific geographic areas, e. g., CASCADIA BASIN - STRUCTURES AND TECTONICS

ATWATER, T. M., 1970, Implications of plate tectonics for the Cenozoic tectonic evolution of western North America.*

ATWATER, T. M., 1971, Magnetic lineations in the northeast Pacific Ocean--Implications for marine and continental tectonic history [abstract].

ATWATER, T. M., 1973, Plate tectonics in the north-east Pacific [abstract].

ATWATER, T. M., 1973, Studies of sea-floor spreading and plate movements in the Pacific Basin.

ATWATER, T. M.; MENARD, H. W., 1970, Magnetic lineations in the northeast Pacific.

BOSTROM, R. C., 1968, Oceanward spreading of the continental crust in the fjord region of northwest America.

CARLSON, R. L., 1976, Cenozoic plate convergence in the vicinity of the Pacific Northwest--A synthesis and assessment of plate tectonics in the northeastern Pacific.*

CROSSON, R. S., 1986, Where is the subducting slab beneath the Pacific Northwest? [abstract].

DANNER, W. R., 1970, Paleontologic and stratigraphic evidence for and against sea floor spreading and opening and closing oceans in the Pacific Northwest [abstract].

DOTT, R. H., JR., 1969, Circum-Pacific late Cenozoic structural rejuvenation--Implications for sea floor spreading.

DRUMMOND, K. J.; AND OTHERS, 1981, Plate-tectonic map of the circum-Pacific region, northeast quadrant.

FARRAR, E.; DIXON, J. M., 1979, Has the North Pacific spreading center been subducted beneath Oregon, Washington and British Columbia? [abstract].

FARRAR, E.; DIXON, J. M., 1980, Miocene ridge impingement and the spawning of secondary ridges off Oregon, Washington, and British Columbia.

HAYES, D. E.; PITMAN, W. C., III, 1970, Magnetic lineations in the north Pacific.

IRVING, E.; ROY, J. L., 1968, Intensite et stabilite d'aimantation des basaltes de l'Oregon et Washington et leurs applications a l'expansion du fond de l'ocean et a d'autres problemes geophysiques.

PITMAN, W. C., III, 1967, Magnetic anomalies in the Pacific and ocean floor spreading.*

PITMAN, W. C., III; HERRON, E.; HEIRTZLER, J. R., 1968, Magnetic anomalies in the Pacific and ocean floor spreading.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

ROSA, J. W. C.; MOLNAR, PETER, 1986, Uncertainties in reconstructions of the Pacific, Farallon, Vancouver and Kula plates and constraints on the rigidity of the Pacific and Farallon (and Vancouver) plates between 73 and 35 m.y. ago [abstract].

SILVER, E. A., 1971, Small plate tectonics in the northeastern Pacific.

TOBIN, D. G.; SYKES, L. R., 1968, Seismicity and tectonics of the northeast Pacific Ocean.*

YORATH, C. J.; SIDNEY, B. C.; CHASE, R. L., 1978, Structural cross section--Coast Mountains, British Columbia to Juan de Fuca Ridge [abstract].

TECTONICS AND PLATE TECTONICS - CASCADIA BASIN

BERGLUND, P. L.; CARSON, BOBB, 1978, Development of spaced cleavage in deep-sea mudstone [abstract].

CARSON, BOBB, 1974, Tectonically induced consolidation of deep-sea sediments at a subducting continental margin [abstract].

CARSON, BOBB, 1975, Carbonate dissolution in "offscraped" deep-sea sediments--An integral part of the subduction process? [abstract].

CARSON, BOBB, 1977, Tectonically induced deformation of deep-sea sediments off Washington and northern Oregon--Mechanical consolidation.

DUNCAN, R. A.; MCELWEE, K. R., COMPILERS, 1984, Cenozoic plate reconstructions.

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

SCHEIDEGGER, K. F., COMPILER, 1984, Thermal evolution of the Juan de Fuca Plate.

SILVER, E. A., 1971, Small plate tectonics in the northeastern Pacific.

TECTONICS AND PLATE TECTONICS - CONTINENTAL MARGIN

ADAMS, JOHN, 1984, Active deformation of the Pacific Northwest continental margin.

BARNARD, W. D., 1974, Westward progressing Pleistocene deformation of the lower continental slope of the Washington coast [abstract].

BARNARD, W. D., 1978, The Washington continental slope--Quaternary tectonics and sedimentation.

BARR, S. M., 1972, Geology of the northern end of Juan de Fuca Ridge and adjacent continental slope.*

BENNETT, L. C., JR., 1969, Structural studies of the continental shelf off Washington [abstract].

BENNETT, L. C., JR.; GRIM, M. S., 1968, Investigation of the continental shelf structure off the coast of Washington [abstract].

BERGLUND, P. L.; CARSON, BOBB, 1978, Development of spaced cleavage in deep-sea mudstone [abstract].

CARSON, BOBB, 1974, Sediment modification related to subduction--Washington-Oregon continental margin [abstract].

CARSON, BOBB, 1974, Tectonically induced consolidation of deep-sea sediments at a subducting continental margin [abstract].

CARSON, BOBB, 1975, Carbonate dissolution in "offscraped" deep-sea sediments--An integral part of the subduction process? [abstract].

CARSON, BOBB, 1977, Tectonically induced deformation of deep-sea sediments off Washington and northern Oregon--Mechanical consolidation.

CARSON, BOBB; RITGER, S. D.; SUESS, ERWIN, 1984, Precipitation of carbonate crust associated with subduction-induced porewater expulsion--Washington-Oregon continental slope [abstract].

CARSON, BOBB; YUAN, J.-W.; MYERS, P. B., JR.; BARNARD, W. D., 1974, Initial deep-sea sediment deformation at the base of the Washington continental slope--A response to subduction.

CHURKIN, MICHAEL, JR., 1974, Paleozoic marginal ocean basin-volcanic arc systems in the Cordilleran foldbelt.

COCHRANE, G. R.; LEWIS, B. T. R., 1984, Comparison of structures in underthrusting and overthrusting lower slope sediments of the Washington-Oregon convergent margin [abstract].

COUCH, R. W., 1972, Continental margin structure and tectonism in the Pacific Northwest [abstract].

COUCH, R. W.; CONNARD, GERRY; KIENLE, C. R., 1980, Sediment thicknesses and tectonic lineations of the northern Juan de Fuca plate and Washington continental margin [abstract].

COWAN, D. S., 1981, Structural styles in Mesozoic melanges along the Pacific margin of North American and their relation to subduction tectonics [abstract].

CROWELL, J. C., 1986, Active tectonics along the western continental margin of the conterminous United States.

DRAKE, E. T., 1981, Robert Hooke and the foundation of geology--A comparison of Steno and Hooke and the Hooke imprint on the Huttonian theory; The tectonic evolution of the Oregon continental margin--Rotation of segment boundaries and possible space-time relationships in the central high Cascades.*

DUNCAN, R. A.; MCELWEE, K. R., COMPILERS, 1984, Cenozoic plate reconstructions.

ELLIS, R. M.; SPENCE, G. D.; CLOWES, R. M.; WALDRON, D. A.; JONES, I. F.; GREEN, A. G.; FORSYTH, D. A.; MAIR, J. A.; BERRY, M. J.; AND OTHERS, 1983, The Vancouver Island seismic project--A CO-CRUST onshore-offshore study of a convergent margin.

HENDRICKSON, M. A., 1986, The determination of seismic structure from teleseismic P waveforms on the Washington continental margin.

HEY, R. N.; WILSON, D. S., 1982, Propagating rift explanation for the tectonic evolution of the northeast Pacific--The pseudomovie.

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

HOWELL, D. G.; ALPHA, T. R.; JOYCE, J. M., 1980, Plate tectonics, physiography, and sedimentation of the northeast Pacific region.

JOHNSON, S. Y.; NIEM, W. A.; NIEM, A. R.; BRANDON, M. T.; KULM, L. D.; STEWART, R. J., COMPILERS, 1984, Tectonic features, western Oregon and Washington.

KULM, L. D.; FOWLER, G. A., 1974, Cenozoic sedimentary framework of the Gorda-Juan de Fuca Plate and adjacent continental margin --A review.

KULM, L. D.; SCHEIDEGGER, K. F., 1979, Quaternary sedimentation on the tectonically active Oregon continental slope.

MCCLAIN, K. J., 1981, A geophysical study of accretionary processes on the Washington continental margin.*

MCCLAIN, K. J.; TABER, J. J., JR.; CROSSON, R. S.; LEWIS, B. T. R., 1981, Geophysical structure of the Washington active margin [abstract].

RIDDIHOUGH, R. P., 1979, Gravity and structure of an active margin--British Columbia and Washington.

SAVAGE, J. C.; LISOWSKI, M.; PRESCOTT, W. H., 1981, Dislocation model for strain accumulation along the Washington coast [abstract].

SCAMMAN, R. L.; CARSON, BOBB, 1981, Secondary carbonate on the Washington-Oregon lower continental slope--Precipitation related to subduction? [abstract].

SCHEIDEGGER, K. F., COMPILER, 1984, Thermal evolution of the Juan de Fuca Plate.

SCHWELLER, W. J.; KULM, L. D., 1978, Depositional patterns and channelized sedimentation in active eastern Pacific trenches.

SILVER, E. A., 1972, Pleistocene tectonic accretion of the continental slope off Washington.

SILVER, E. A., 1973, The continental margin off California to Washington--A history of partial coupling between lithospheric plates [abstract].

SILVER, E. A., 1975, Tectonic setting of the continental margin off the western United States [abstract].

SILVER, E. A., 1978, Geophysical studies and tectonic development of the continental margin off the western United States, lat. 34 degrees to 48 degrees N.

SILVER, E. A.; BARNARD, W. D., 1971, Pleistocene tectonics of the Washington continental slope [abstract].

SNAVELY, P. D., JR., 1979, Stratigraphic and tectonic framework, Oregon-Washington continental margin [abstract].

SNAVELY, P. D., JR.; MACLEOD, N. S., 1977, Evolution of the Eocene continental margin of western Oregon and Washington [abstract].

SNAVELY, P. D., JR.; MACLEOD, N. S.; PEARL, J. E., 1976, Tectonic framework of the Strait of Juan de Fuca and the Pacific continental shelf [abstract].

SNAVELY, P. D., JR.; WAGNER, H. C., 1984, Tectonic framework, continental margin of southwestern Washington [abstract].

STOW, D. A. V.; HOWELL, D. G.; NELSON, C. H., 1985, Sedimentary, tectonic, and sea-level controls.

SUESS, ERWIN; MASSOTH, G. J., 1984, Evidence for venting of pore waters from subducted sediments of the Oregon continental margin [abstract].

TABER, J. J., JR., 1983, Crustal structure and seismicity of the Washington continental margin.

TABER, J. J., JR.; LEWIS, B. T. R., 1986, Crustal structure of the Washington continental margin from refraction data.

VINE, F. J., 1968, Paleomagnetic evidence for the northward movement of the North Pacific Basin during the past 100 m.y. [abstract].

WAGNER, H. C., 1985, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental shelf and upper continental slope off southwestern Washington between latitudes 46 degrees N. and 47 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W.

WAGNER, H. C.; BATATIAN, L. D.; LAMBERT, T. M.; TOMSON, J. H., 1986, Preliminary geologic framework studies showing bathymetry, locations of geophysical tracklines and exploratory wells, sea floor geology and deeper geologic structures, magnetic contours, and inferred thickness of Tertiary rocks on the continental slope off southwestern Washington between latitudes 46 degrees N. and 48 degrees 30 minutes N. and from the Washington coast to 125 degrees 20 minutes W.

WISSMANN, GERD, 1971, Marine geophysical studies offshore Cape Flattery, Washington, and the implications for regional tectonics.

TECTONICS AND PLATE TECTONICS - JUAN DE FUCA PLATE

ACHARYA, HEMENDRA, 1981, Juan de Fuca plate --Aseismic subduction at 1.8 cm/yr.

ADAMS, JOHN, 1984, Active deformation of the Pacific Northwest continental margin.

AU, D.; CLOWES, R. M., 1979, Crustal structure near the Juan de Fuca and Explorer plate boundary from seismic refraction data [abstract].

BARNARD, W. D., 1978, The Washington continental slope--Quaternary tectonics and sedimentation.

BERGLUND, P. L.; CARSON, BOBB, 1978, Development of spaced cleavage in deep-sea mudstone [abstract].

CARSON, BOBB, 1974, Tectonically induced consolidation of deep-sea sediments at a subducting continental margin [abstract].

CARSON, BOBB, 1975, Carbonate dissolution in "offscraped" deep-sea sediments--An integral part of the subduction process? [abstract].

CARSON, BOBB, 1977, Tectonically induced deformation of deep-sea sediments off Washington and northern Oregon--Mechanical consolidation.

CHEN, J.; NIENABER, W.; DOSSO, H. W., 1986, Electromagnetic induction in the Pacific north-west coastal region [abstract].

CLOWES, R. M.; BRANDON, M. T.; GREEN, A. G.; YORATH, C. J.; SUTHERLAND BROWN, A.; KANASEWICH, E. R.; SPENCER, C., 1987, LITHOPROBE--Southern Vancouver Islands--Cenozoic subduction complex imaged by deep seismic reflections.

CLOWES, R. M.; SPENCE, G. D.; WALDRON, D. A.; ELLIS, R. M., 1983, VISP II--Lithospheric structure across the Juan de Fuca/America plate margin [abstract].

COUCH, R. W.; CONNARD, GERRY; KIENLE, C. R., 1980, Sediment thicknesses and tectonic lineations of the northern Juan de Fuca plate and Washington continental margin [abstract].

COWAN, D. S., 1984, Continent-ocean transect B3--Active spreading, sediment offscraping, and accretionary tectonics, Juan de Fuca Ridge to North Cascades [abstract].

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

CROSSON, R. S., 1986, Earthquake hazard investigations in the Pacific Northwest.

CROSSON, R. S., 1986, Where is the subducting slab beneath the Pacific Northwest? [abstract].

CROWELL, J. C., 1983, Active tectonism along the continental margin of the conterminous United States [abstract].

CROWELL, J. C., 1986, Active tectonics along the western continental margin of the conterminous United States.

DAVIS, E. E.; YORATH, C. J.; HYNDMAN, R. D.; CURRIE, R. G.; BORNHOLD, B. D.; BRANDON, M. T.; CLOWES, R. M., 1986, The deformation front of the northern Cascadia subduction zone in plan and cross section [abstract].

DOSSO, H. W.; NIENABER, W., 1985, Model study of EM induction in the Juan de Fuca plate region [abstract].

DRAKE, E. T., 1981, Robert Hooke and the foundation of geology--A comparison of Steno and Hooke and the Hooke imprint on the Huttonian theory; The tectonic evolution of the Oregon continental margin--Rotation of segment boundaries and possible space-time relationships in the central high Cascades.*

DRUMMOND, K. J.; AND OTHERS, 1981, Plate-tectonic map of the circum-Pacific region, northeast quadrant.

ELLIS, R. M.; SPENCE, G. D.; CLOWES, R. M.; WALDRON, D. A.; JONES, I. F.; GREEN, A. G.; FORSYTH, D. A.; MAIR, J. A.; BERRY, M. J.; AND OTHERS, 1983, The Vancouver Island seismic project--A CO-CRUST onshore-offshore study of a convergent margin.

HEATON, T. H.; HARTZELL, S. H., 1985, Northwest U.S. subduction zone risk assessment.

HEATON, T. H.; HARTZELL, S. H., 1986, Source characteristics of hypothetical subduction earthquakes in the northwestern United States.

HEATON, T. H.; HARTZELL, S. H., 1987, Earthquake hazards on the Cascadia subduction zone.

HEY, R. N.; WILSON, D. S., 1982, Propagating rift explanation for the tectonic evolution of the northeast Pacific--The pseudomovie.

KULM, L. D.; EMBLEY, R. W., 1983, Contrasting tectonic-sedimentologic styles along the convergent Juan de Fuca plate boundary [abstract].

KULM, L. D.; FOWLER, G. A., 1974, Cenozoic sedimentary framework of the Gorda-Juan de Fuca Plate and adjacent continental margin --A review.

MCWILLIAMS, R. G., 1978, Early Tertiary rifting in western Oregon-Washington.

MICHAELSON, C. A.; WEAVER, C. S., 1986, Upper mantle structure from teleseismic P wave arrivals in Washington and northern Oregon.

NISHIMURA, C. E.; WILSON, D. S.; HEY, R. N., 1981, Present-day subduction of the Juan de Fuca plate [abstract].

NISHIMURA, C. E.; WILSON, D. S.; HEY, R. N., 1984, Pole of rotation analysis of present-day Juan de Fuca plate motion.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

RIDDIHOUGH, R. P., 1978, The Juan de Fuca Plate.

RIDDIHOUGH, R. P., 1981, Absolute motions of the Juan de Fuca plate system--Resistance to subduction? [abstract].

RIDDIHOUGH, R. P., 1983, (?), Recent plate motions.

RIDDIHOUGH, R. P., 1984, The geometry of the subducted Juan de Fuca plate [abstract].

RIDDIHOUGH, R. P., 1984, Recent movements of the Juan de Fuca plate system.

RIDDIHOUGH, R. P.; BECK, M. E., JR.; CHASE, R. L.; DAVIS, E. E.; HYNDMAN, R. D.; JOHNSON, S. H.; ROGERS, G. C., 1983, Geodynamics of the Juan de Fuca Plate.

RIDDIHOUGH, R. P.; HYNDMAN, R. D., 1977, The recent interaction between continent and ocean floor in the Pacific Northwest [abstract].

RIDDIHOUGH, R. P.; ROGERS, G. C.; HYNDMAN, R. D., 1985, Juan de Fuca Plate map series --Recent plate motions, geothermal heat flux, magnetic anomalies [abstract].

ROGERS, G. C., COMPILER, 1979, Fault plane solutions.

ROGERS, G. C., 1983, Seismotectonics of the Juan de Fuca plate subduction zone [abstract].

ROGERS, G. C., 1985, Variation in Cascade volcanism with margin orientation.*

ROGERS, G. C.; RIDDIHOUGH, R. P., 1978, Base map for geoscience studies of the Juan de Fuca Plate; progress report [abstract].

SCHEIDEGGER, K. F., COMPILER, 1984, Thermal evolution of the Juan de Fuca Plate.

SCHWARTZ, D. P., 1986, Subduction zone earthquakes in the Pacific Northwest--Evaluating the potential--Thoughts for discussion at the Seattle workshop.

SILVER, E. A., 1975, Tectonic setting of the continental margin off the western United States [abstract].

SNAVELY, P. D., JR.; MACLEOD, N. S., 1977, Evolution of the Eocene continental margin of western Oregon and Washington [abstract].

SPENCE, WILLIAM, 1986, Origins of stresses at the Cascadia subduction zone, U.S. Pacific Northwest [abstract].

SPENCE, WILLIAM, 1986, Seismicity and tectonics.

TABER, J. J., JR.; LEWIS, B. T. R., 1986, Crustal structure of the Washington continental margin from refraction data.

TABER, J. J., JR.; SMITH, S. W., 1985, Seismicity and focal mechanisms associated with the subduction of the Juan de Fuca plate beneath the Olympic Peninsula, Washington.

TABER, J. J., JR.; WEAVER, C. S., 1983, Seismicity of the Olympic Peninsula, Washington [abstract].

TILLSON, D. D.; GLASS, C. E.; KIEL, W. A., 1985, Use of synthetic shaded relief images for engineering geologic interpretation of geophysical data [abstract].

WALCK, M. C., 1985, The upper mantle beneath the north-east Pacific rim--A comparison with the Gulf of California.

WEAVER, C. S., 1985, Combined regional seismotectonics and the extent of Cenozoic volcanism--An improved first-order geothermal assessment of the Cascade Range.

WEAVER, C. S., 1985, Geothermal seismotectonic studies.

WEAVER, C. S.; MICHAELSON, C. A., 1983, Segmentation of the Juan de Fuca plate and volcanism in the Cascade Range [abstract].

WEAVER, C. S.; MICHAELSON, C. A., 1985, Seismicity and volcanism in the Pacific Northwest--Evidence for the segmentation of the Juan de Fuca Plate.

WHITE, W. R. H.; WALDRON, D. A.; CLOWES, R. M., 1983, VISP I--Crustal structure of the oceanic Juan de Fuca plate [abstract].

WILSON, D. S.; HEY, R. N.; NISHIMURA, C. E., 1984, Propagation as a mechanism of reorientation of the Juan de Fuca Ridge.

WILSON, D. S.; HEY, R. N.; NISHIMURA, C. E., 1984, Propagation as a mechanism of ridge reorientation in the Juan de Fuca area [abstract].*

TECTONICS AND PLATE TECTONICS - JUAN DE FUCA RIDGE

ANONYMOUS, 1981, Sea-floor geology off western Canada.

BARR, S. M., 1972, Geology of the northern end of Juan de Fuca Ridge and adjacent continental slope.*

BARR, S. M., 1973, The spreading centre near the northern end of Juan de Fuca Ridge [abstract].

BARR, S. M., 1974, Seamount chains formed near the crest of Juan de Fuca Ridge, northeast Pacific Ocean.

BARR, S. M.; CHASE, R. L., 1974, Geology of the northern end of Juan de Fuca Ridge and sea-floor spreading.

BASS, M. N., 1970, Variation of ocean ridge basalts with spreading rate [abstract].

CARLSON, R. L., 1977, Late Cenozoic evolution of the Juan de Fuca and Gorda Rises [abstract].

CARLSON, R. L., 1981, Late Cenozoic rotations of the Juan de Fuca Ridge and the Gorda Rise--A case study.

COWAN, D. S., 1984, Continent-ocean transect B3--Active spreading, sediment offscraping, and accretionary tectonics, Juan de Fuca Ridge to North Cascades [abstract].

COWAN, D. S., 1986, Explanatory pamphlet for continent-ocean transect B3--Juan de Fuca spreading ridge to Montana thrust belt.

COWAN, D. S.; POTTER, C. J., COMPILERS; BRANDON, M. T.; FOUNTAIN, D. M.; HYNDMAN, D. W.; JOHNSON, S. Y.; LEWIS, B. T. R.; MCCLAIN, K. J.; SWANSON, D. A., 1986, B-3 Juan de Fuca spreading ridge to Montana thrust belt.

DAVIS, E. E., 1975, The northern Juan de Fuca Ridge--A geophysical investigation of an active sea floor spreading center.*

DAVIS, E. E.; CURRIE, R. G.; HUSSONG, D. M.; RENARD, V.; KOSALOS, J., 1983, High altitude side-scan imagery over the northern Juan de Fuca Ridge [abstract].

DAVIS, E. E.; RIDDIHOUGH, R. P., 1982, The Quaternary history of the northern Juan de Fuca Ridge system [abstract].

DEHLINGER, PETER, 1969, Tectonic processes in the Juan de Fuca and Gorda ridges, and their implications for global tectonics [abstract].

DELANEY, J. R.; JOHNSON, H. P.; KARSTEN, J. L., 1981, The Juan de Fuca Ridge--Hot spot--Propagating rift system--New tectonic, geochemical, and magnetic data [abstract].

DELANEY, J. R.; KARSTEN, J. L.; HAMMOND, S. R., 1986, Petrology and tectonics of the Juan de Fuca Ridge [abstract].

DUNCAN, J. R.; MORGAN, W. J.; MELSON, W. G.; SIMKIN, THOMAS; BANKS, HAROLD; GOTTFRIED, DAVID, 1969, Juan de Fuca ridge

bathymetry--Independent evidence of sea-floor spreading [abstract].

DUNCAN, R. A.; CLAGUE, D. A., 1985, Pacific plate motion recorded by linear volcanic chains.

DUNCAN, R. A.; MCELWEE, K. R., COMPILERS, 1984, Cenozoic plate reconstructions.

DYMOND, J. R.; WATKINS, N. D.; NAYUDU, Y. R., 1968, Age of the Cobb Seamount.

ELVERS, D. J.; SRIVASTAVA, S. P.; POTTER, KENNETH; MORLEY, JOSEPH; SEIDEL, DEAN, 1973, Asymmetric spreading across the Juan de Fuca and Gorda rises as obtained from a detailed magnetic survey.

FARRAR, E.; DIXON, J. M., 1979, Has the North Pacific spreading center been subducted beneath Oregon, Washington and British Columbia? [abstract].

HOLLISTER, V. F., 1979, Porphyry copper-type deposits of the Cascade volcanic arc, Washington.

JOHNSON, H. P.; DELANEY, J. R., 1980, Interaction of a hot spot and a mid-ocean ridge--The Juan de Fuca Ridge crest [abstract].

JOHNSON, H. P.; DELANEY, J. R.; KARSTEN, J. L.; VANCE, T. C., 1983, Characterization of the structure of the Juan de Fuca Ridge [abstract].

JOHNSON, H. P.; KARSTEN, J. L.; DELANEY, J. R.; DAVIS, E. E.; CURRIE, R. G.; CHASE, R. L., 1983, A detailed study of the Cobb offset of the Juan de Fuca Ridge--Evolution of a propagating rift.

KARSTEN, J. L.; HAMMOND, S. R.; DAVIS, E. E.; CURRIE, R. G., 1986, Detailed geomorphology and neotectonics of the Endeavour Segment, Juan de Fuca Ridge--New results from Seabeam swath mapping.

KARSTEN, J. L.; JOHNSON, H. P.; DELANEY, J. R.; AND OTHERS, 1982, A detailed study of the Cobb offset of the Juan de Fuca Ridge--Evolution of a propagating rift [abstract].

MALAHOFF, ALEXANDER; EMBLEY, R. W.; HAMMOND, S. R.; WYAN, W.; CRANE, KATHLEEN, 1982, Juan de Fuca and Gorda Ridge axial ridge morphology and tectonics from combined SEABEAM and SEA MARC data [abstract].

MALAHOFF, ALEXANDER; RIDDIHOUGH, R. P., 1984, Tectonics of the Explorer Ridge and Sovanco fracture zone, N.E. Pacific Ocean [abstract].

MCCLAIN, K. J., 1981, A geophysical study of accretionary processes on the Washington continental margin.*

MCMANUS, D. A.; HOLMES, M. L.; CARSON, BOBB; BARR, S. M., 1972, Late Quaternary tectonics, northern end of Juan de Fuca Ridge (northeast Pacific).

PITMAN, W. C., III, 1967, Magnetic anomalies in the Pacific and ocean floor spreading.*

PITMAN, W. C., III; HERRON, E.; HEIRTZLER, J. R., 1968, Magnetic anomalies in the Pacific and ocean floor spreading.

POTTER, C. J.; COWAN, D. S.; LEWIS, B.; CROSSON, R. S.; FOUNTAIN, D. M.; HYNDMAN, D. W.; QAMAR, ANTHONY; SNAVELY, P. D., JR.; STEWART, R. J.; SWANSON, D. A., 1982, Juan de Fuca Ridge to NW Montana--Transect B3 [abstract].

RIDDIHOUGH, R. P.; BECK, M. E., JR.; CHASE, R. L.; DAVIS, E. E.; HYNDMAN, R. D.; JOHNSON, S. H.; ROGERS, G. C., 1983, Geodynamics of the Juan de Fuca Plate.

RONA, P. A., 1983, Potential mineral and energy resources at submerged plate boundaries.

SCHEIDEGGER, K. F., COMPILER, 1984, Thermal evolution of the Juan de Fuca Plate.

SINTON, J. M.; CHRISTIE, D. M., 1982, Geochemical anomalies of the Blanco and Cobb propagating rifts--An evolutionary model [abstract].

TOBIN, D. G.; SYKES, L. R., 1968, Seismicity and tectonics of the northeast Pacific Ocean.*

WILSON, D. S., 1985, Tectonic history of the Juan de Fuca Ridge from 40 million years to present [abstract].

WILSON, D. S.; HEY, R. N.; NISHIMURA, C. E., 1984, Propagation as a mechanism of reorientation of the Juan de Fuca Ridge.

WILSON, D. S.; HEY, R. N.; NISHIMURA, C. E., 1984, Propagation as a mechanism of ridge reorientation in the Juan de Fuca area [abstract].*

YORATH, C. J.; SIDNEY, B. C.; CHASE, R. L., 1978, Structural cross section--Coast Mountains, British Columbia to Juan de Fuca Ridge [abstract].

TERRACES

PALMER, L. A., 1967, Marine terraces of California, Oregon, and Washington.*

TERTIARY

see also

EOCENE
MIOCENE
NEOGENE
OLIGOCENE
PLIOCENE

ADDICOTT, W. O., 1969, Tertiary climatic change in the marginal northeastern Pacific Ocean.

ATWATER, T. M., 1973, Studies of sea-floor spreading and plate movements in the Pacific Basin.

INGLE, J. C., JR., 1966, Pliocene-Miocene boundary in temperate eastern Pacific [abstract].

MCWILLIAMS, R. G., 1978, Early Tertiary rifting in western Oregon-Washington.

SILVER, E. A., 1973, The continental margin off California to Washington--A history of partial coupling between lithospheric plates [abstract].

SNAVELY, P. D., JR., 1986, Tertiary evolution and petroleum potential of Oregon-Washington continental margin [abstract].

SNAVELY, P. D., JR.; PEARL, J. E., 1978, Potential petroleum reservoirs within Tertiary melange, coastal Olympic Peninsula and adjacent OCS [abstract].

SNAVELY, P. D., JR.; WAGNER, H. C., 1980, Generalized isopach map of Tertiary sedimentary rocks, western Oregon and Washington, and adjacent continental margin.

SNAVELY, P. D., JR.; WELLS, R. E., 1984, Tertiary volcanic and intrusive rocks on the Oregon and Washington continental shelf.

Thermal surveys, see GEOPHYSICS - THERMAL SURVEYS

Tilt surveys, see GEOPHYSICS - TILT SURVEYS

TITANIUM

HOLSER, A. F.; ROWLAND, R. W.; GOUD, M. R., 1981, A compilation of subsea energy and mineral resources of the United States including its possessions and Trust Territory of the Pacific Islands.

MANHEIM, F. T.; HESS, H. D., 1981, Offshore hard minerals around the U.S. continental margins.

NATIONAL ADVISORY COMMITTEE ON OCEANS AND ATMOSPHERE, 1983, Marine minerals--An alternative mineral supply; National ocean goals and objectives for the 1980's.

Toxic wastes, see WASTE DISPOSAL

Vents, see HYDROTHERMAL VENTS

VOLCANIC ASH

HORN, D. R.; DELACH, M. N.; HORN, B. M., 1969, Distribution of volcanic ash layers and turbidites in the north Pacific.

NELSON, C. H.; KULM, L. D.; CARLSON, P. R.; DUNCAN, J. R., 1968, Mazama ash in the northeastern Pacific.

ROYSE, C. F., JR., 1967, Mazama ash from the continental slope off Washington.

VOLCANISM

see also subdivision VOLCANISM under specific geographic areas, e.g., EXCLUSIVE ECONOMIC ZONE - VOLCANISM

SNAVELY, P. D., JR.; MACLEOD, N. S., 1969, Local centers of Miocene volcanism along coastal Oregon and Washington [abstract].

VOLCANISM - JUAN DE FUCA RIDGE

APPELGATE, B.; BRINKHURT, R.; BUTTERFIELD, D.; COWEN, J.; DEBEVOISE, A. E.; DECHARON, A.; EMBLEY, R. W.; FEELY, R. A.; FOX, C. G.; FRANKLIN, J.; ET AL, 1986, Pisces submersible exploration of a high-temperature vent field in the caldera of Axial Volcano, Juan de Fuca Ridge [abstract].

CASM RESEARCH GROUP (CHASE, R. L.; DELANEY, J. R.; JOHNSON, H. P.; JUNIPER, S. K.; KARSTEN, J. L.; LUPTON, J. E.; SCOTT, S. D.; TUNNICLIFFE, VERENA), 1983, North caldera hydrothermal vent field, Axial seamount Juan de Fuca Ridge [abstract].

DELANEY, J. R.; KARSTEN, J. L.; JOHNSON, H. P.; CHASE, R. L.; SCOTT, S. D.; TUNNICLIFFE, VERENA; HAMMOND, S. R., 1983, Structural control of hydrothermal vents and sulfide structures on the 'Axial seamount,' Juan de Fuca [abstract].

DELANEY, J. R.; MCDUFF, R. E.; LUPTON, J. E., 1984, Hydrothermal fluid temperatures of 400-degrees C on the Endeavour segment, northern Juan de Fuca [abstract].

DUNCAN, R. A.; CLAGUE, D. A., 1985, Pacific plate motion recorded by linear volcanic chains.

EMBLEY, R. W.; HAMMOND, S. R., 1985, Portrait of the submarine "hotspot" as a young caldera [abstract].

HAMMOND, S. R.; DELANEY, J. R., 1985, Evolution of Axial volcano, Juan de Fuca Ridge [abstract].

JACOBSON, R. S.; BIBEE, L. D.; EMBLEY, R. W.; HAMMOND, S. R., 1987, A microseismicity survey of Axial Seamount, Juan de Fuca Ridge.

KAPPEL, E. S.; RYAN, W. B. F., 1986, Volcanic episodicity and a non-steady state rift valley along northeast Pacific spreading centers--Evidence from Sea MARC I.

LEWISON, M. A.; FEELY, R. A.; CURL, H. C., JR.; GEISELMAN, T. L., 1986, Composition of smoker particulates from active vents within the caldera of Axial Volcano on the Juan de Fuca Ridge [abstract].

MALAHOFF, ALEXANDER; EMBLEY, R. W.; HAMMOND, S. R., 1983, Submarine volcanism and hydrothermal activity along the northern end of the Juan de Fuca Ridge axis [abstract].

MASSOTH, G. J.; FEELY, R. A.; CURL, H. C., JR., 1982, Hydrothermal manganese over the Juan de Fuca and Gorda Ridges [abstract].

MASSOTH, G. J.; FEELY, R. A.; CURL, H. C., JR.; BAKER, E. T., 1983, The geochemistry of particulate hydrothermal plumes over the Juan de Fuca Ridge [abstract].

MAXWELL, J. C., 1974, Early western margin of the United States.

MELSON, W. G.; VALLIER, T. L.; WRIGHT, T. L.; BYERLY, G. R.; NELEN, JOSEPH, 1976, Chemical diversity of abyssal volcanic glass erupted along Pacific, Atlantic, and Indian Ocean sea-floor spreading centers.

MENARD, H. W., 1969, Growth of drifting volcanos.

TUNNICLIFFE, VERENA, 1986, Cruise reports--PANDORA II/PISCES IV, 10 July-5 August, 1986.

VOLCANISM - JUAN DE FUCA PLATE

ACHARYA, HEMENDRA, 1981, Juan de Fuca plate --Aseismic subduction at 1.8 cm/yr.

ROGERS, G. C., 1985, Variation in Cascade volcanism with margin orientation.*

WEAVER, C. S.; MICHAELSON, C. A., 1983, Segmentation of the Juan de Fuca plate and volcanism in the Cascade Range [abstract].

WEAVER, C. S.; MICHAELSON, C. A., 1985, Seismicity and volcanism in the Pacific Northwest--Evidence for the segmentation of the Juan de Fuca Plate.

WASHINGTON-OREGON TRENCH

SCHOLL, D. W., 1974, Sedimentary sequences in the north Pacific trenches.

WASTE DISPOSAL

MANHEIM, F. T.; VINE, ALLYN, 1986, E.E.Z. may have waste disposal options.

STERNBERG, R. W.; CREAGER, J. S.; GLASSLEY, W. E.; JOHNSON, J., 1977, Stability of dredged material deposited at ocean dumping sites seaward of Columbia River mouth [abstract].

WILLAPA CANYON

EDGAR, N. T., 1983, Oil and gas resources of the U.S. continental margin.

NELSON, C. H.; CARLSON, P. R.; BYRNE, J. V.; ALPHA, T. R., 1970, Development of the Astoria Canyon-fan physiography and comparison with similar systems.

NELSON, C. H.; KULM, L. D.; CARLSON, P. R.; DUNCAN, J. R., 1968, Mazama ash in the northeastern Pacific.

ROYSE, C. F., JR., 1964, Sediments of Willapa submarine canyon.*

SHEPARD, F. P.; DILL, R. F., 1966, repr. 1976, Summary characteristics and dimensions of submarine canyons.

WILLAPA CHANNEL

NELSON, C. H., 1985, Astoria Fan, Pacific Ocean.

ZINC

BALLARD, R. D.; BISCHOFF, J. L., PANEL CHAIRMEN, 1984, Assessment and scientific understanding of hard mineral resources in the EEZ.

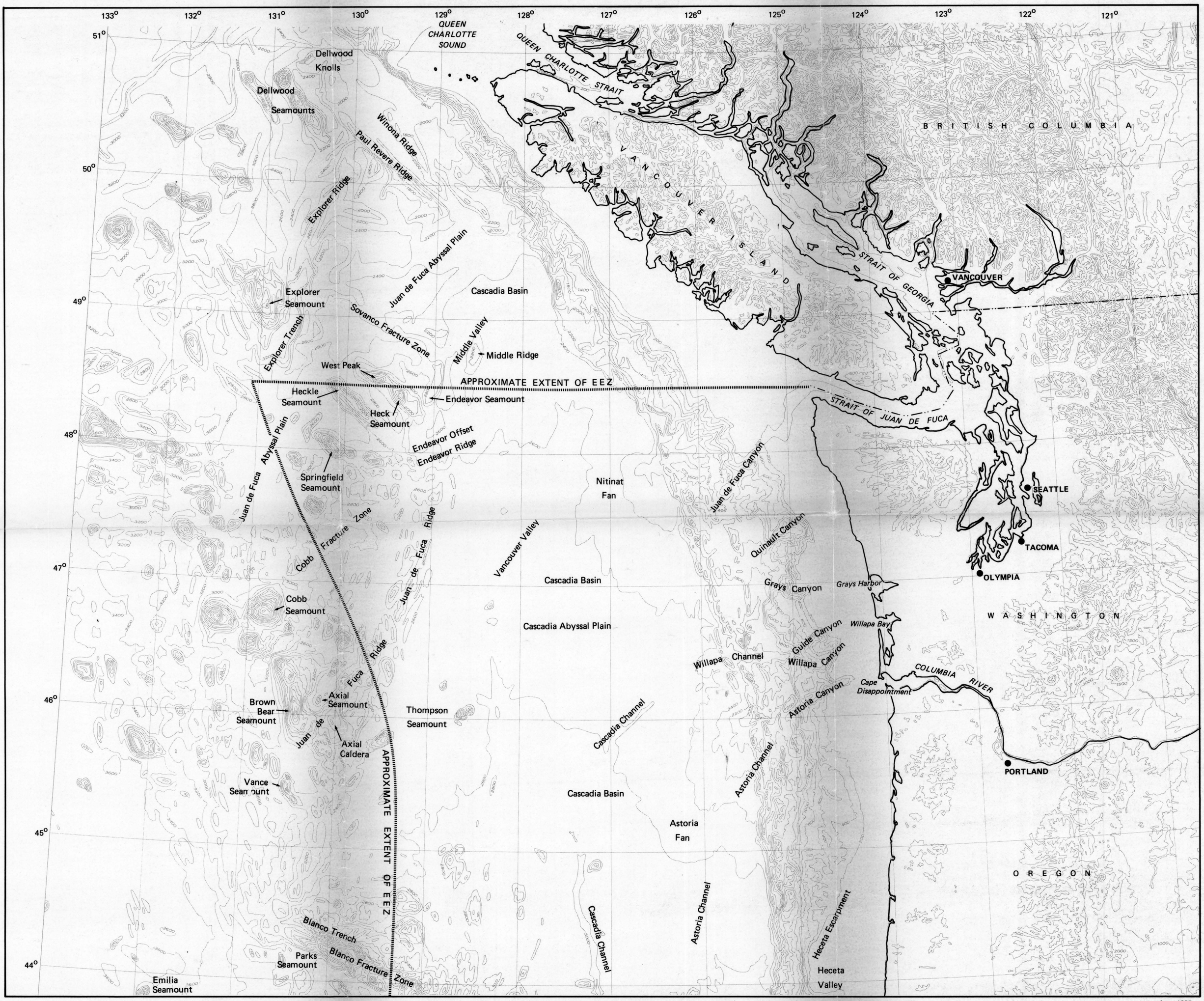
CUTSHALL, N. H.; RENFRO, W. C.; EVANS, D. W.; JOHNSON, V. G., 1971, Zinc-65 in Oregon-Washington continental shelf sediments.

LASMANIS, RAYMOND, 1983, Offshore metal deposits--Washington and Oregon.

WASHINGTON STATE DEPARTMENT OF
Natural Resources
Brian Boyle - Commissioner of Public Lands
Art Stearns - Supervisor

WASHINGTON DIVISION OF GEOLOGY AND EARTH RESOURCES
RAYMOND LASMANIS, STATE GEOLOGIST

OPEN FILE REPORT 87-12



0 100 200 KILOMETERS
0 20 40 60 80 100 120 MILES

SCALE 1:2,000,000

June, 1987

PLATE

MAP OF THE U. S. EXCLUSIVE ECONOMIC ZONE WEST OF THE WASHINGTON STATE COASTLINE