



CIRCUM-PACIFIC COUNCIL FOR ENERGY AND MINERAL RESOURCES GEOLOGIC MAP OF THE CIRCUM-PACIFIC REGION PACIFIC BASIN SHEET

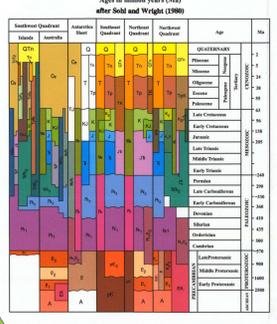
KENNETH J. DRUMMOND, Chairman, Northeast Quadrant Panel; JOSE CORALAN D., Chairman, Southeast Quadrant Panel; TOMOYUKI HORIYAMA, Chairman, Northwest Quadrant Panel; R. W. JOHNSON, Chairman, Southwest Quadrant Panel; GEORGE W. MOORE, Chairman, Arctic Region Panel; IAN W. D. DALZIEL, Chairman, Antarctic Region Panel

LAND GEOLOGY: Kenneth J. Drummond, National Energy Board, Calgary, Alberta, T2P 2E1, Canada; Jose Coralán D., Servicio Nacional de Geología y Minería, Santiago, Chile; W. David Falgouty, Australian Geological Survey Organisation, Canberra, A.C.T. 2601, Australia; H. Friedrich Frank, Australian Geological Survey Organisation, Canberra, A.C.T. 2601, Australia; Eiji Inoue, Geological Survey of Japan, Tsukuba, Ibaraki 305, Japan; Tadahito Sato, Tohoku University, Iwaki 300, Japan; Campbell Craddock, University of Wisconsin, Madison, Wisconsin 53706, U.S.A.

SEAFLOOR SEDIMENT: Floyd W. McCoy, University of Hawaii, Kaneohe, Hawaii 96744; OFFSHORE GEOLOGY (in accompanying text): George W. Moore, Oregon State University, Corvallis, Oregon, 97331, U.S.A.; DEEP SEA DRILLING PRODUCTION DRILLING PROJECT: COLUMBIAN SECTION LITHOLOGY (in accompanying text): Theresa R. Swain-Bill and Anne L. Gertsen, U.S. Geological Survey, Menlo Park, California 94025, U.S.A.; Paul W. Richards, U.S. Geological Survey, Reston, Virginia, 22092, U.S.A.

\*Affiliations at time of compilation

CORRELATION DIAGRAM FOR MAP LEGEND OF THE FIVE SHEETS IN THIS SERIES



DESCRIPTION OF ONSHORE GEOLOGIC UNITS (See Explanatory Notes for detailed description of units)

- Q Quaternary continental and marine sedimentary, felsic to intermediate, intermediate to mafic, and mafic, and mafic rocks
QTh Quaternary continental and marine sedimentary, felsic to intermediate, intermediate to mafic, mafic, and undifferentiated mafic rocks
Ct Cenozoic to Late Triassic continental and marine sedimentary, intermediate to mafic, mafic, and undifferentiated mafic rocks
Tn Neogene continental and marine sedimentary, felsic, intermediate, and mafic rocks
Tm Neogene to Paleogene (mostly Mesozoic) continental and marine sedimentary, felsic, intermediate to mafic, mafic, and undifferentiated mafic rocks
Tl Neogene to Late Cretaceous marine sedimentary rocks
Tj Neogene to Jurassic mafic extrusive, intermediate to mafic, and mafic rocks
Tc Tertiary to Late Paleozoic continental and marine sedimentary, intermediate to mafic, mafic, and undifferentiated mafic rocks
Tb Tertiary continental and marine sedimentary, felsic to intermediate, intermediate to mafic, mafic, and undifferentiated mafic rocks
Tm Paleogene to Mesozoic marine sedimentary, mafic, mafic, and undifferentiated mafic rocks
Tl Late Cretaceous continental and marine sedimentary, felsic, intermediate to mafic, mafic, and undifferentiated mafic rocks
Tc Cretaceous continental and marine sedimentary, felsic, intermediate to mafic, mafic, and undifferentiated mafic rocks
Tj Jurassic to Triassic continental and marine sedimentary, felsic, intermediate to mafic, mafic, and undifferentiated mafic rocks
Tb Triassic to Paleozoic continental and marine sedimentary, felsic, intermediate to mafic, mafic, and undifferentiated mafic rocks
Tc Triassic continental and marine sedimentary, felsic to intermediate, intermediate to mafic, mafic, and undifferentiated mafic rocks
Tm Triassic and Permian continental and marine sedimentary rocks
Tl Late Paleozoic continental and marine sedimentary, felsic, intermediate to mafic, mafic, and undifferentiated mafic rocks
Tc Paleozoic continental and marine sedimentary, felsic, intermediate to mafic, mafic, and undifferentiated mafic rocks
Tj Early Paleozoic continental and marine sedimentary, felsic, intermediate to mafic, mafic, and undifferentiated mafic rocks
Tb Early Paleozoic and Precambrian continental, mafic, and undifferentiated mafic rocks
Tc Late Paleozoic continental and marine sedimentary, felsic, intermediate to mafic, mafic, and undifferentiated mafic rocks
Tj Late Paleozoic and Precambrian continental, mafic, and undifferentiated mafic rocks
Tb Middle Paleozoic continental and marine sedimentary, felsic, intermediate to mafic, mafic, and undifferentiated mafic rocks
Tc Precambrian and Paleozoic continental, mafic, and undifferentiated mafic rocks
Tj Paleozoic and Archean marine sedimentary, felsic, mafic, and undifferentiated mafic rocks
Tb Middle and Early Paleozoic felsic and intermediate mafic rocks
Tc Early Paleozoic continental and marine sedimentary, felsic, mafic, and undifferentiated mafic rocks
Tj Archean felsic rocks, and low- and high-temperature and undifferentiated mafic rocks
Tb Archean felsic rocks, and low- and high-temperature and undifferentiated mafic rocks, and undifferentiated mafic rocks

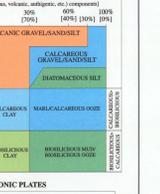
ONSHORE ROCK TYPE

- SEDIMENTARY ROCKS: Mostly mafic, Mostly felsic, Extrusive, Intrusive
IGNEOUS ROCKS: Felsic to intermediate, Intermediate to mafic, Mafic, Undifferentiated, Ultramafic
METAMORPHIC ROCKS: Low pressure and low-temperature, High temperature, High pressure, Undifferentiated
SYMBOLS: Contact, Normal or strike-slip fault, Historically active volcano, Holocene thermal activity, Bathymetric contours, Ice shelf, Bathymetric contours, City, Topographic prominence, International boundary

SEAFLOOR SEDIMENT

- NONBIOMASSIC: CHALK, SAND, SILT, CLAY, PELAGIC CLAY
BIOMASSIC: CALCIUM CARBONATE, ORGANIC RICH, ORGANIC POOR, ORGANIC RICH, ORGANIC POOR

PRESENTLY ACTIVE TECTONIC PLATES



SOURCES OF DATA

LAND GEOLOGY: The geology of the Pacific Basin was compiled from the previously published geologic maps of the Northeast, Southeast, Northwest, Southwest Quadrants, and the Antarctic Sheet. The geology from the 1:100,000-scale geologic maps was reduced by computer to change the scale, change the projection center point, and merge the maps together. The geology of North America and its adjacent landmasses was compiled by Kenneth J. Drummond, National Energy Board, Canada (1981). Special contributions were made by Chulalongkorn Rajatanakorn, Thailand; Mexico, Roberto Galvan, Geological Survey of Canada, and James E. Case, Ray G. Munn, and Paul J. Sorensen, U.S. Geological Survey. The geology of South America and adjacent islands was compiled by Jose Coralán D., Servicio Nacional de Geología y Minería, Chile (1984). The geology of portions of the Northwest Quadrant was originally compiled in 1979 by Otsuka Hirokazu, Kenzoji Sannomaru, and Tetsuya Nishida, Geological Survey of Japan, under the direction of Fumiaki Chirai. The geology of the Antarctic region was compiled by Campbell Craddock, U.S. Geological Survey, for the Southwest Quadrant. The geology of Australia, New Guinea, New Zealand, and islands in the western part of the southeast was compiled by H. Friedrich Frank, U.S. Geological Survey, and the Australian Bureau of Mineral Resources (BMRF) Map Compilation Group. Some units were modified by W. David Falgouty, Australian Geological Survey Organisation, Ewart Scholten, Geological Survey of New South Wales, Australia, and Kenneth J. Drummond to make the geology consistent with that of other quadrants. The geology of the Antarctic Sheet was compiled by Campbell Craddock, University of Wisconsin, U.S.A.

