1306N-19

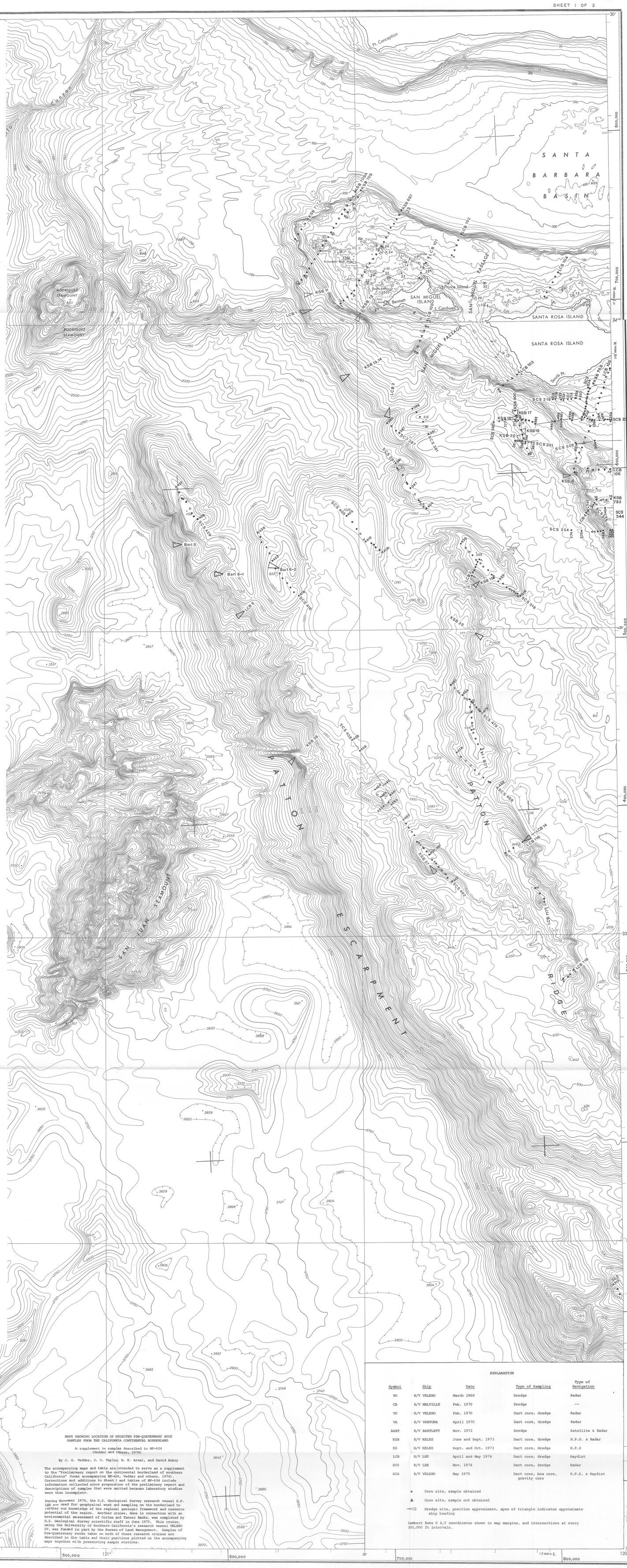
TABLE

PRELIMINARY DESCRIPTION OF SELECTED SAMPLES OF PRE-QUATERNARY AGE

Sample locations plotted on the accompanying map sheets together with samples described in MF-624 (Vedder and others, 1974), are grouped into five areas (fig. 1) within which the samples are listed approximately from north to south. Rock descriptions are based chiefly on megascopic inspection supported by microscopic examination of some samples for which thin sections were made. Splits for paleontologic study were taken from the bottom of the cores in most cases. R. E. Arnal identified the benthonic and planktonic foraminifers; D. Bukry, the coccoliths, silicoflagellates and diatoms; their stage and age correlations are based on Kleinpell (1938), Mallory (1959), and Bukry (1973) with some modifications. Rock colors are coded after Goddard and others (1948) and apply to dried samples unless otherwise noted.

AREA A. PATTON ESCARPMENT AND PATTON RIDGE TO NORTHEAST BANK

N lat Lambert X	W long Lambert Y	Uncorrected depth, (metres) 1/	Description	Age/Stage	Sample and thin section designation
33°45.2' 734990	120°24.8' 602580	1020	Basalt, amygdaloidal, glassy; 5GY6/1; texture suggests quenching	--	SCS 394 T-471
33°43.7' 601110	120°51.1' 599040	1305	Claystone, silty, micaceous; 5Y6/1, 5Y4/1, mottled; deformed, bioturbated	--	SCS 436
33°43.1' 602470	120°50.8' 595440	1200	Basic volcanic rock, porphyritic, vesicular, glassy; 5Y2/1; partly altered; $Au_{6.68}$; questionably in place	--	SCS 435 T-475
33°43.0' 603240	120°50.7' 594970	1220	Claystone, silty, micaceous; 5YR5/1; massive, fractured, moderately hard	--	SCS 434
33°42.8' 605090	120°50.3' 593330	1190	Siltstone, sandy, micaceous; 5Y6/1; massive, fractures with yellow clay-like filling, friable in part	--	SCS 433
33°41.6' 608090	120°49.6' 586270	1130	Siltstone, clayey, micaceous, sparse glauconite grains; 5Y6/1 to 5GY6/1; massive, fractured; moderately hard	--	SCS 431
33°41.2' 700510	120°31.4' 579400	980	Claystone, calcareous, phosphatic(?) in part, vitric tuff; 5Y2/1, 5Y6/1, N8; laminated, fragmented, deformed	--	SCS 405
33°41.5' 611040	120°49.0 582610	1290	Mudstone(?), calcareous volcaniclastic, altered; 5Y7/2 to 10YR5/4; mottled	--	SCS 429 T-492
33°38.8' 648890	120°41.4' 566990	1110	Sandstone, feldspathic, very fine grained, silty, micaceous; 5GY6/1; massive, friable in part; clast composition indicates eastern basement source	--	SCS 426 T-522
33°38.5' 713880	120°28.6' 563010	1065	Claystone, calcareous, phosphatic(?) in part; N5, 5Y6/1; laminated, low density; dip 5°±	Middle or late Miocene coccoliths; lower Mohnian foraminifers	SCS 411 T-516
33°38.3' 651720	120°40.9' 564030	1080	Siltstone, clayey; micaceous; 5Y5/1; massive, minute clay-filled fractures	--	SCS 425
33°37.3' 774120	120°16.7' 553120	585	Pyroxenite, fractured, brecciated; 5GY5/2; altered in part to amphibolite and serpentinite(?)	--	SCS 533 T-493
33°36.9' 654840	120°40.2' 555660	1050	Olivine basalt, alkaline, glassy, altered; 5Y4/1 to 5Y2/1; texture suggests quenching; questionably in place	--	SCS 423 T-501
33°36.2' 780080	120°15.4' 545940	570	Pebble breccia, fine- to very coarse-grained; 5GY7/2 to 10Y6/2; clasts include serpentinite, pyroxenite, altered volcanic rock, and metasedimentary rock; zeolite(?) cement	--	SCS 530 T-497
33°35.7' 658870	120°39.3' 547990	990	Siltstone, clayey, micaceous; 5Y6/1; massive, minute clay(?)-filled fractures; moderately hard, intermediate density	--	SCS 421
33°35.1' 786040	120°14.2' 539150	625	Claystone, silty, micaceous, calcareous, 5Y4/1, 5Y6/1; laminated, low density; dip 10°	Middle Miocene coccoliths; Relizian foraminifers	SCS 526
33°35.2' 660360	120°39.0' 544940	1010	Sandstone, very fine grained, and siltstone, micaceous; 5Y6/1, 5Y6/4; massive, moderately hard, intermediate density; color bands dip 8°±	--	SCS 420
33°34.8' 788640	120°13.7' 537010	660	Claystone and siltstone, tuffaceous, micaceous, calcareous; 5Y4/1, 5Y6/1; indistinctly laminated, low density; dip <5°	Probable Relizian foraminifers	SCS 525 T-520
33°34.8' 663010	120°38.5' 542140	1040	Siltstone, clayey, micaceous; 5Y6/1; massive, moderately hard, intermediate density	--	SCS 419
33°34.3' 664760	120°38.1' 539400	1080	Siltstone, clayey, micaceous, calcareous; 5GY6/1; massive with few indistinct greenish laminae; contains glass shards, and clasts of green amphibole	--	SCS 418 T-473
33°33.5' 799580	120°11.5' 528950	845	Claystone, silty, micaceous, calcareous; 5Y6/1, 5Y4/1; fractured crosscut with calcite veins and masses	Early or middle Miocene coccoliths; upper Relizian or lower Luisian foraminifers	SCS 518 T-517
33°33.2' 801960	120°11.0' 527370	940		Early or middle Miocene coccoliths with reworked Eocene	SCS 516
33°23.6' 763840	120°18.1' 470530	585	Mudstone, volcaniclastic, altered, sheared; 10Y6/2 to 5GY5/2; siltstone, sandy; clasts include pyroxene and rare blue amphibole	--	SCS 488 T-508
33°23.2' 768120	120°17.2' 467640	545	Argillite (contains recrystallized clays); N6 to 5GY6/1; brittle, sheared, relatively hard; intermediate density	--	SCS 485 T-510
33°22.9' 769880	120°16.8' 465710	540	Sandstone, very fine grained, and mudstone, chiefly volcaniclastic; N7 to 5GY6/1; brittle, fractured, weathered	--	SCS 484 T-509
33°22.0 774370	120°16.0' 460190	625	Volcanic rock, sheared, fractured; 5G4/1; possibly a breccia with veinlets of calcite; fragments are plagioclase-rich and aphanitic to porphyritic	--	SCS 480 T-495
33°18.0' 759060	120°18.7' 436560	685	Claystone, silty, diatomaceous, calcareous; N5, 5Y6/1; laminated, low density; dip 32°	Middle Miocene coccoliths; lower(?) Mohnian foraminifers	SCS 478
33°17.6' 761340	120°18.3' 433930	700	Claystone, calcareous; N3, 5Y4/1; indistinctly laminated; low density; dip 10-15°	Late Miocene coccoliths; upper Mohnian foraminifers	SCS 477 T-518
33°16.3' 769070	120°16.7' 425840	675	Claystone, silty, diatomaceous, calcareous; N5, 5Y6/1; laminated, low density; dip 30-35°	Middle Miocene coccoliths, silicoflagellates; Relizian foraminifers	SCS 474
33°15.6' 773970	120°15.7' 421090	670	Claystone, silty, micaceous, phosphatic(?) and tuffaceous(?) laminae, calcareous; 5Y6/1, 5Y8/1, N8; laminated, low density; dip 20-25°	Middle Miocene coccoliths; Relizian foraminifers	SCS 472
33°15.2' 776840	120°15.1' 418610	720	Mudstone, scattered medium to coarse sand grains, volcaniclastic, micaceous, calcareous; 5Y5/1; massive, low density; clasts include rare amphibolite(?) serpentine, chlorite schist, and chert fragments	Early or middle Miocene coccoliths; upper Relizian or lower Luisian foraminifers	SCS 471 T-476
33°15.1 778240	120°14.8' 417620	760	Claystone, silty, diatomaceous, calcareous; 5Y4/1, 5Y6/1; irregular layer of tuffaceous siltstone; 5B7/1; indistinctly laminated, low density, dip 30-40°	Early or middle Miocene coccoliths; Relizian foraminifers	SCS 470 T-521
33°13.8' 712510	120°27.7' 413070	820	Siltstone, clayey, micaceous, calcareous; 5GY5/1; massive, intermediate density	Early Miocene coccoliths, silicoflagellates; Saucesian foraminifers	SCS 466
33°11.0' 726530	120°24.8' 395570	930	Claystone, silty, micaceous, diatomaceous, calcareous; 5Y4/1, 5Y6/1; massive, minute fractures, low density	Middle Miocene coccoliths	SCS 461
33°10.7' 727820	120°24.5' 393150	860	Claystone, silty, micaceous, diatomaceous; calcareous; 5Y6/1; massive, low density	Middle Miocene coccoliths	SCS 460
33°09.9' 731270	120°23.8' 388280	705	Mudstone, glauconitic, calcareous, mottled; 5Y6/1, 5Y7/2; massive, deformed core	Middle Miocene coccoliths; lower Repettian or deep-water Quaternary foraminifers	SCS 458
33°08.6' 736530	120°22.7' 380320	238	Siltstone, sandy, calcareous; 5GY6/1; fractured fragments, massive, hard	--	SCS 453
33°08.3' 73[illegible]20	120°22.4' 378220	220	Mudstone and sandstone, very fine grained, glauconitic; 5Y6/1, 5GY6/1; deformed, compact to friable	Quaternary coccoliths; early Miocene foraminifers, possibly redeposited	SCS 452
33°07.5' 741000	120°21.8' 373260	250	Siltstone, sandy, and sandstone, silty, very fine grained; calcareous glauconitic; 3 mm lamina of consolidated foraminiferal ooze; 5Y6/1; 5Y8/1; laminated, semi friable; dip <5°	Early(?) Miocene coccoliths	SCS 449
33°07.1' 743390	120°21.3' 370940	280	Siltstone, sandy, micaceous, calcareous; 5Y6/1; massive, fractured, friable	--	SCS 447
33°06.8' 744840	120°21.0' 368960	315	Siltstone, sandy, glauconitic, calcareous; fragments of sandstone, very fine grained, calcareous; N7 to 5Y6/1, 5Y8/1; deformed laminae, cemented fractures	--	SCS 446
33°06.4' 746520	120°20.7' 366600	395	Sandstone, very fine grained, siltstone, sandy, glauconitic, calcareous in part; N7 to 5Y6/1; massive, fractured, friable; contains pyrite, spozbo, and fish remains	Oligocene(?) coccoliths (rare)	SCS 445
32°48.1' 950780	119°39.9' 248120	968	Claystone, calcareous; N7 and N5; indistinctly laminated, minute phosphorite(?) blebs; low density; dip 5-10°	Lower Mohnian foraminifers	SCS 62 T-484
32°47.7' 948240	119°40.4' 245660	640	Interbedded silty very fine-grained sandstone and silty claystone; N6 to 5GY6/1; thin bedded, carbonaceous with multicolored detrital mineral grains; hard; bioturbated; 15± dip	--	SCS 61
32°47.5' 945440	119°40.9' 244810	660	Claystone, silty, calcareous; N6; massive, fractured and sheared, hard	Late Albian to early Turonian coccoliths	SCS 60
32°47.2' 942990	119°41.4' 243060	698	Claystone, silty, calcareous; N2 and 5Y6/1; indistinctly laminated with light and dark color bands, low density	Late Miocene coccoliths; Upper Mohnian to Delmontian foraminifers	SCS 59
32°44.2' 975850	119°34.3' 221680	640	Claystone, silty, calcareous; N5 to 5Y6/1; indistinctly laminated with phosphorite blebs, fractured, low density	Late Miocene coccoliths; Lower Mohnian foraminifers	SCS 44
32°44.0' 975470	119°34.9' 222280	550	Claystone, calcareous; 5Y6/1 and 5Y4/1; banded, one 8 mm zone of cemented globigerina ooze; deformed, low density	Late Miocene coccoliths; Upper Mohnian foraminifers	SCS 45
32°42.4' 960260	119°37.8' 213380	585	Claystone, tuffaceous, calcareous; 5Y6/1; massive; includes 5 mm vitric tuff layer, N8; low density	Late Miocene coccoliths; probable lower Mohnian foraminifers	SCS 50
32°41.8' 955460	119°38.7' 209610	843	Claystone, calcareous; coccoliths and silicoflagellates; laminated with phosphorite blebs, mud pectens; 10-12° dip; very low density	Middle Miocene coccoliths and silicoflagellates; Luisian foraminifers	SCS 52
32°41.0' 979560	119°34.3' 204210	167	Siltstone, clayey, micaceous, calcareous; 5GY6/1, 5Y8/1	Neogene coccoliths; upper Relizian or Luisian foraminifers	KZ 73-8-4
32°40.1'	119°35.7'	485	Sandstone, fine to very coarse grained, coquinoid; N7 to 5Y8/1; contains common clasts of pyroxenite and amphibolite; rare serpentinite; porous with abundant zeolite prisms in pores; locally derived from metamorphic rock terrane	--	KZ 73-8-7 T-558
32°38.1' 963250	119°37.1' 187020	695	Claystone, silty, micaceous, calcareous; 5Y4/1; scrapings from outside of core barrel	Middle Miocene coccoliths; probable upper Relizian or lower Luisian foraminifers	KZ 73-8-11
32°38.0' 958120	119°38.1' 187000	740	Sandstone, fine to very coarse grained, dolomitic in part; 5Y8/4; clasts include amphibolite, pyroxenite, serpentinite, volcanic(?) plagioclase	--	KZ 73-8-13 T-559
32°38.4' 994850	119°30.9' 187630	664	Claystone, silty, diatomaceous, calcareous, tuffaceous(?); N8 and 5Y6/1; laminated; clay-filled fractures; dip 28°, very low density	Middle Miocene coccoliths, diatoms, silicoflagellates; Luisian foraminifers	SCS 136
32°38.0' 990990	119°31.7' 185570	635	Siltstone, clayey, glauconitic, phosphatic(?); 5Y6/1 to 5Y2/1; laminated; dip 12°±	Possible Luisian or Mohnian foraminifers	SCS 137
32°35.1' 931830	119°43.1' 169840	645	Claystone, silty, micaceous, highly fossiliferous, calcareous; 5Y6/1; massive. low density	Early middle Miocene coccoliths; probable lower Luisian foraminifers	KZ 73-8-23
32°34.8' 1003520	119°29.1' 165630	675	Andesite, glassy, vesicular; 5GY4/1; partly devitrified, autobrecciated; contains colorless augite	--	SCS 149 T-474
32°34.5' 1001380	119°29.5' 164020	405	Andesite(?), porphyritic, plagioclase-rich; 10YR5/4; phenocrysts to 10 mm; ferromagnesian minerals and interstitial glass completely altered	--	SCS 150 T-487
32°34.0' 996600	119°30.4' 161150	317	Claystone, silty, micaceous, calcareous; 5Y6/1 to 5Y4/1; massive; low density	Probable Relizian foraminifers	SCS 152
32°29.4' 1017680	119°26.2' 132650	995	Limestone, recrystallized, dolomitic(?), equigranular; 5Y8/4 to 5Y7/2; porous; molds of foraminifers	--	SCS 175 T-486
32°29.4' 961460	119°37.1' 134230	1350	Sandstone, silty, tuffaceous, very fine- to fine grained, volcanogenic; angular clasts; N4 to 5Y6/1; massive, friable	Miocene(?) foraminifers	SCS 156 T-485
32°29.2' 958270	119°37.7' 132990	1320	Sandstone, volcaniclastic, very fine to coarse grained, angular clasts, some unaltered glass; 5Y6/4 to 10Y4/2; indistinctly bedded, friable; dip 30°±	--	SCS 157 T-507
32°29.1' 908040	119°47.5' 134220	1080	Olivine basalt, vesicular, glassy; 5YR2/1; glass both unaltered and palagonitic; questionably in place	--	SCS 168 T-524
32°28.8' 956010	119°38.1' 130920	1250	Sandstone, volcaniclastic fine to medium grained, angular clasts; 5GY5/2 to 5G4/1; massive, fractured, friable; contains fragments of basaltic glass	Middle to late Miocene planktonic foraminifers	SCS 158 T-488
32°28.6' 919180	119°45.3' 130680	1217	Claystone, silty, diatomaceous, calcareous; 5Y6/1; massive, indistinct color bands, minute clay-filled fractures, low density	Middle Miocene coccoliths, diatoms, silicoflagellates	SCS 164
32°28.4' 953490	119°38.6' 128600	1225	Tuff, fine to medium grained, glassy, angular grains; N3; contains unaltered basaltic glass and plagioclase crystals	Middle to late Miocene planktonic foraminifers	SCS 159 T-514
32°28.2' 1004140	119°28.8' 125780	870	Claystone, silty, calcareous; 5Y6/1, 5Y4/1, N3; phosphorite pellets and blebs, indistinctly laminated, low density; dip <5°	Late(?) Miocene coccoliths; upper Mohnian foraminifers	SCS 180
32°28.4' 921150	119°44.9' 129410	1198	Claystone, silty, diatomaceous, tuffaceous, calcareous; 5Y4/1; massive, minute clay-filled fractures, low density	Early or middle Miocene diatoms and silicoflagellates	SCS 163
32°27.7' 999260	119°29.7' 122840	1270	Claystone, silty, calcareous; 5Y6/1, 5Y4/1; massive, faintly color-banded, low density	Middle Miocene coccoliths; Saucesian foraminifers	SCS 182
32°26.2' 1019930	119°25.6' 113430	877	Claystone, silty, tuffaceous(?), with thin diatomite zones; N9 and 5Y6/1; laminated fractured; dips 25-35°	Early Miocene diatoms, silicoflagellates	SCS 184
32°25.6' 101100	119°27.3' 110070	795	Claystone, calcareous; 5Y6/1, 5Y4/1; deformed, phosphatic(?) zones; low density	Middle Miocene coccoliths; probable Luisian foraminifers	SCS 187
32°25.3' 1005910	119°28.3' 108040	1308	Claystone, calcareous, crystalline; 5Y4/1, 5Y6/1, 5Y8/1; laminated, low density; dip 10°±	Early or middle Miocene coccoliths, diatoms, silicoflagellates; Luisian or upper Relizian foraminifers	SCS 189
32°25.4' 839640	120°00.6' 114190	888	Claystone, calcareous; 5Y5/1, 5Y6/1; indistinctly laminated, low density; dip 10°±	Upper Mohnian foraminifers	SCS 214 T-519
32°24.9' 840800	120°00.4 111090	937	Basalt, vesicular, alkaline; 5Y5/2; contains radiating augite crystals; weathered	--	SCS 213 T-499
32°23.7' 846240	119°59.3' 103500	1027	Claystone, silty, calcareous; N6; tuff, clayey; 5B8/1; fractured, low density	Questionable middle Miocene foraminifers	SCS 211
32°22.7' 850310	119°58.5' 97280	1235	Claystone, silty, phosphatic(?); N2 with blebs of 5Y6/1; color-banded core; massive, low density; contains unaltered basaltic glass	Luisian foraminifers	SCS 209 T-523
32°21.2' 1028420	119°23.8' 82630	1265	Hyaloclastite, palagonitic, fine-grained; 10G7/2, 5GY5/2; glass devitrified and recrystallized, ferromagnesian minerals altered	--	SCS 190 T-494
32°21.1' 1025030	119°24.4' 81900	1090	Claystone, diatomaceous; 5Y8/1, 5Y6/1, N9; shattered; low density	Early or middle Miocene diatoms, silicoflagellates	SCS 191
32°20.6' 1023050	119°24.8' 78900	1036	Claystone, silty to sandy, abundant sponge spicules; 5Y6/1 and N3; color banded, glauconite pellets, phosphatic(?) blebs, massive; dip 5°± on color band	--	SCS 192
32°20.6' 866020	119°24.8' 85360	1036	Claystone, silty to sandy, abundant sponge fragments; 5Y6/1 and N3; color banded, glauconite pellets, phosphatic(?) blebs, massive, dip 5°± on color band	--	SCS 195
32°20.8' 861940	119°56.1' 85580	1055	Sandstone, volcaniclastic, very fine grained, silty to clayey, tuffaceous; 5Y7/2; massive, shattered; contains some glass shards	--	SCS 206 T-489
32°20.8' 866020	119°55.3' 85360	1095	Claystone, bentonitic(?); 5Y7/2; massive, fractured; and claystone, silty, tuffaceous, hard; 10Y6/2; poorly developed parting at 5°±; contains probable altered basaltic glass fragments	Middle Miocene planktonic foraminifers	SCS 205 T-515
32°20.0' 1014790	119°26.4' 75410	908	Siltstone, clayey, calcareous; 5Y4/1 (wet); moderately hard; low density	--	SCS 195
32°19.8' 1012290	119°26.9' 74470	1003	Claystone, silty, calcareous, 2 mm sandy layer; 5Y6/1 and 5Y4/1; indistinctly laminated, fractured, low density	Luisian foraminifers	SCS 196
32°19.6' 952910	119°38.4' 75320	370	Olivine(?) basalt, porphyritic; 5YR2/1; olivine(?) altered to bowlingite(?); contains titanaugite, magnetite, and secondary apatite, questionably in place	--	SCS 202 T-527



Symbol	Ship	Date	Type of Sampling	Type of Navigation
VO	R/V VELERO	March 1968	Dredge	Radar
CB	R/V MELVILLE	Feb. 1970	Dredge	--
VO	R/V VELERO	Feb. 1970	Dart core, dredge	Radar
VA	R/V VANTUNA	April 1970	Dart core, dredge	Radar
BART	R/V BARTLETT	Nov. 1972	Dredge	Satellite & Radar
KSB	R/V KELEZ	June and Sept. 1973	Dart core, dredge	R.P.S. & Radar
KZ	R/V KELEZ	Sept. and Oct. 1973	Dart core, dredge	R.P.S
LCB	R/V LEE	April and May 1974	Dart core, dredge	Raydist
SCS	R/V LEE	Nov. 1974	Dart core, dredge	Radar
SCA	R/V VELERO	May 1975	Dart core, box core, gravity core	R.P.S. & Raydist

● Core site, sample obtained

▲ Core site, sample not obtained

◁ Dredge site, position approximate, apex of triangle indicates approximate ship heading

Lambert Zone 6 X,Y coordinates shown in map margins, and intersections at every 200,000 ft intervals.

MAPS SHOWING LOCATION OF SELECTED PRE-QUATERNARY ROCK SAMPLES FROM THE CALIFORNIA CONTINENTAL BORDERLAND

A supplement to samples described in MF-624 (Vedder and others, 1974)

By J. G. Vedder, J. C. Taylor, R. E. Arnal, and David Bukry

The accompanying maps and table are intended to serve as a supplement to the "Preliminary report on the continental borderland of southern California" (text accompanying MF-614, Vedder and others, 1974). Corrections and additions to Sheet 1 and tables of MF-624 include information collected since preparation of the preliminary report and descriptions of samples that were omitted because laboratory studies were then incomplete.

During November 1974, the U.S. Geological Survey research vessel S.P. LEE was used for geophysical work and sampling on the borderland to further our knowledge of the regional geologic framework and resource potential of the region. Another cruise, done in connection with an environmental assessment of Cortes and Tanner Banks, was completed by U.S. Geological Survey scientific staff in June 1975. This cruise, using the University of Southern California's research vessel VELERO IV, was funded in part by the Bureau of Land Management. Samples of Pre-Quaternary rocks taken on both of these research cruises are described in the table and their positions plotted on the accompanying maps together with preexisting sample stations.

Bathymetry compiled from C & GS hydrographic surveys dated 1933 to 1937 supplemented by hydrographic information from other sources. C & G.S. 1306N-19,20

Universal Transverse Mercator Grid, Zone 10 10,000 meter ticks (---) are shown on the neatlines.

Bathymetric contour intervals: 10 meters to the 200 meter depth, 50 meters to maximum depth. Datum MLLW.

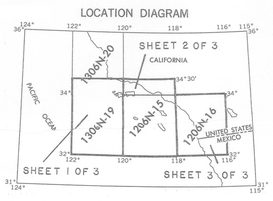
ELEVATIONS (in meters)

· 6 Islets above mean high water
· (6) Heights above mean high water
· 4 Heights above mean lower low water

TRANSVERSE MERCATOR PROJECTION
Scale 1:250,000

5 0 5 10 15 20 Statute Miles
5 0 5 10 15 20 25 30 Kilometers
5 0 5 10 15 Nautical Miles

LOCATION DIAGRAM



MAP SHOWING LOCATION OF SELECTED PRE-QUATERNARY ROCK SAMPLES FROM THE CALIFORNIA CONTINENTAL BORDERLAND

by
J. G. Vedder, J. C. Taylor, R. E. Arnal, and David Bukry

1976

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