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SHEET 1 OF 2

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

SERIES	SUBSERIES	STAGE
PLEISTOCENE		
PLIOCENE		MOCLIPSIAN
MIOCENE	UPPER MIOCENE	GRAYSIAN
		WISHKAHAN
	MIDDLE MIOCENE	NEWPORTIAN
	LOWER MIOCENE	PILLARIAN
OLIGOCENE		JUANIAN
		MATLOCKIAN or ("BLAKELEY")
EOCENE	UPPER EOCENE	GALVINIAN "LINCOLN"
		"KEASEY"
	MIDDLE EOCENE	"TEJON"
		"TRANSITION"
CRETACEOUS		

① MIDDLETON ISLAND

PELECYPODS	Localities
Astarte fabula Reeve	M1743 aff., M1746
Astarte elliptica Brown (*alaskana* Dall)	M1743, M1752
Astarte cf. *A. leffingwelli* Dall	M1746
Astarte aff. *A. rollandi* Bernardi	M1754
Chlamys islandica kanaga MacNeil	M1742
Chlamys pseudislandica platiri MacNeil	M1742, M1743
Chlamys coatsi middletonensis MacNeil	M1741
Chlamys (Leochlamys) tugidakensis MacNeil	M1746, M1751, M1754
Clinocardium ciliatum (Fabricius)	M1740, M1747, M1751
Cyclocardia crebricostata (Krause)	M1754
Hiatella arctica (Linné)	M1743, M1744
Serripes groenlandicus lapercusii (Deshayes)	M1744, M1754
GASTROPODS	
Fusitriton oregonensis (Redfield)	M1745, M1754
Natica (Cryptonatica) clausa Broderip & Sowerby	M1744, M1745, M1746, M1747
Neptunea aff. *N. decemcostata* (Say)	M1743, M1744, M1745
Neptunea aff. *N. lamellosa* Golikov	M1741, M1743, M1744, M1745
Neptunea aff. *N. lyrata* (Gmelin)	M1741, M1744, M1753, M1754
Neptunea aff. *N. ventursensis* (Waterfall)	M1744
Neptunea sp. (some resemblance to *N. insularis* (Dall))	M1742
Volutopsius aff. *V. stefanssoni* (Dall)	M1745
BARNACLE	
Balanus cf. *B. hameri* (Ascanius)	M1750

③ MILLER HILLS

PELECYPODS	Localities
Clinocardium sp.	M1892?
Macoma sp.	M1893
Yoldia aff. *Y. akanensis* Uozumi and *Y. chehalisensis* Arnold	M1893, M1894
GASTROPOD	
Antiplanes cf. *A. thurstonensis* (Weaver)	M1892

④ WINGHAM ISLAND

PELECYPODS	Localities
Crassatella sp.	M5774
Glycymeris cf. *G. eocenica* (Weaver)	M5741
Nuculana sp.	M5774
Pitar arnoldi (Weaver)	M5743, M5745?
?Portlandella sp.	M5744?
Thyasira disjuncta Gabb	M5741
?Yoldia sp.	M5745
GASTROPODS	
Cymatium aff. *C. cowlitzense* (Weaver)	M5741
Epitonium (Boreoscala) sp.	M5774
Ficopsis cf. *F. meganoensis packardi* Marriam & Turner	M5191
Polinices sp.	M5191, M5774
?Turrid	M5741
?Turritella sp.	M5191
CRUSTACEANS	
Branchioplax washingtoniana Rathbun n. subsp.?	M5740
Undetermined fragments	M5742
STARFISHES	
Asteropectinid	M5779
Ophiuroid	M5779
SCAPHOPOD	
Dentalium sp.	M5191
CEPHALOPOD	
Aturia grandior Schenck	M5740

⑤ CAPE ST. PETER

PELECYPODS	Localities
Crenomytilus cf. *C. mathewsoni* (Gabb)	M5780
?Lima oakvillensis Clark	M5778
?Portlandella sp.	M1778
GASTROPODS	
Naticid	M1778
Turrid	M1778
Undetermined fragments (2 or more taxa)	M1778
SCAPHOPOD	
Dentalium (Cocodentalium) nunomae Takeda	M1778
?ECHINOID FRAGMENTS	M1778

⑥ KAYAK ISLAND-WEST

PELECYPODS	Localities
Acila gettysburgensis (Reagan)	M1771, M5781, 15862?
Acila taliaferroi Schenck	M5781, 15862 cf.
Acila cf. *A. yakatagensis* (Clark)	M1767
Calyptogena chitanii (Kanehara)	M5747
Lucinoma acutilineata (Conrad)	M5781
Macoma aff. *M. calcarea* (Gmelin)	15862
Megayoldia cf. *M. thraciaeformis* (Storer)	M5775, 15861, 15862
Megayoldia cf. *M. yotsukuraensis* (Uozumi)	M1767, M1770, M5747, 15861, 15862
Portlandella cf. *P. karaginskiensis* (Gladenkov)	M5781, 15861
Portlandella orientalis (Kristofovich)	M1767 cf., 15861, 15862
Portlandella scapha (Tokuyama)	M1767
Portlandella n. subgenus and n. sp.	M1769
Portlandella n. sp.?	M1767, M1768?
Solemya sp.	M5781
Thyasira cf. *T. disjuncta* Gabb	15861
GASTROPODS	
Cancellarid	15861
Colus sp.	M5775
Colus n. sp.	M1767, M5775, M5781
Cryptonatica sp.	M1768, M5775
Fusitriton sp.	M5746
Neptunea aff. *N. modesta* Kuroda	M1768
?Polinices sp.	M5775
SCAPHOPOD	
Dentalium sp.	15862

⑦ KAYAK ISLAND-NORTH

PELECYPODS	Localities
Acila sp.	M5728
Delectopecten n. sp.? aff. *D. lillisi* (Herlein)	M5727
Thyasira disjuncta Gabb	M5723, M5739?
GASTROPODS	
Bathybembix n. sp.? aff. *B. columbiana* (Dall) and *B. arnoldi* (Durham)	M5729, M5731
Conus cf. *C. cowlitzensis* Weaver	M5723
?Galeodea sp.	M5723
CRUSTACEANS	
Eumorphocorystes naselensis Rathbun	M5726, M5731
Undetermined fragments	M5723, M5729
CEPHALOPOD	
Aturia cf. *A. grandior* Schenck	M5726

⑧ KAYAK ISLAND-EAST

PELECYPODS	Localities
Acila gettysburgensis (Reagan)	M5942
Calyptogena chitanii (Kanehara)	M5721, M5770, M5777
Calyptogena n. sp.?	M5721
Nuculana (Borissia) alferovi Slodkewitsch	M5770
Portlandella scapha (Tokuyama)	M5762 cf., M5763
Portlandella cf. *P. karaginskiensis* Gladenkov	M5771
Portlandella n. sp.?	M5770
Solemya sp.	M5942

⑨ CREEK "E" AND REEF

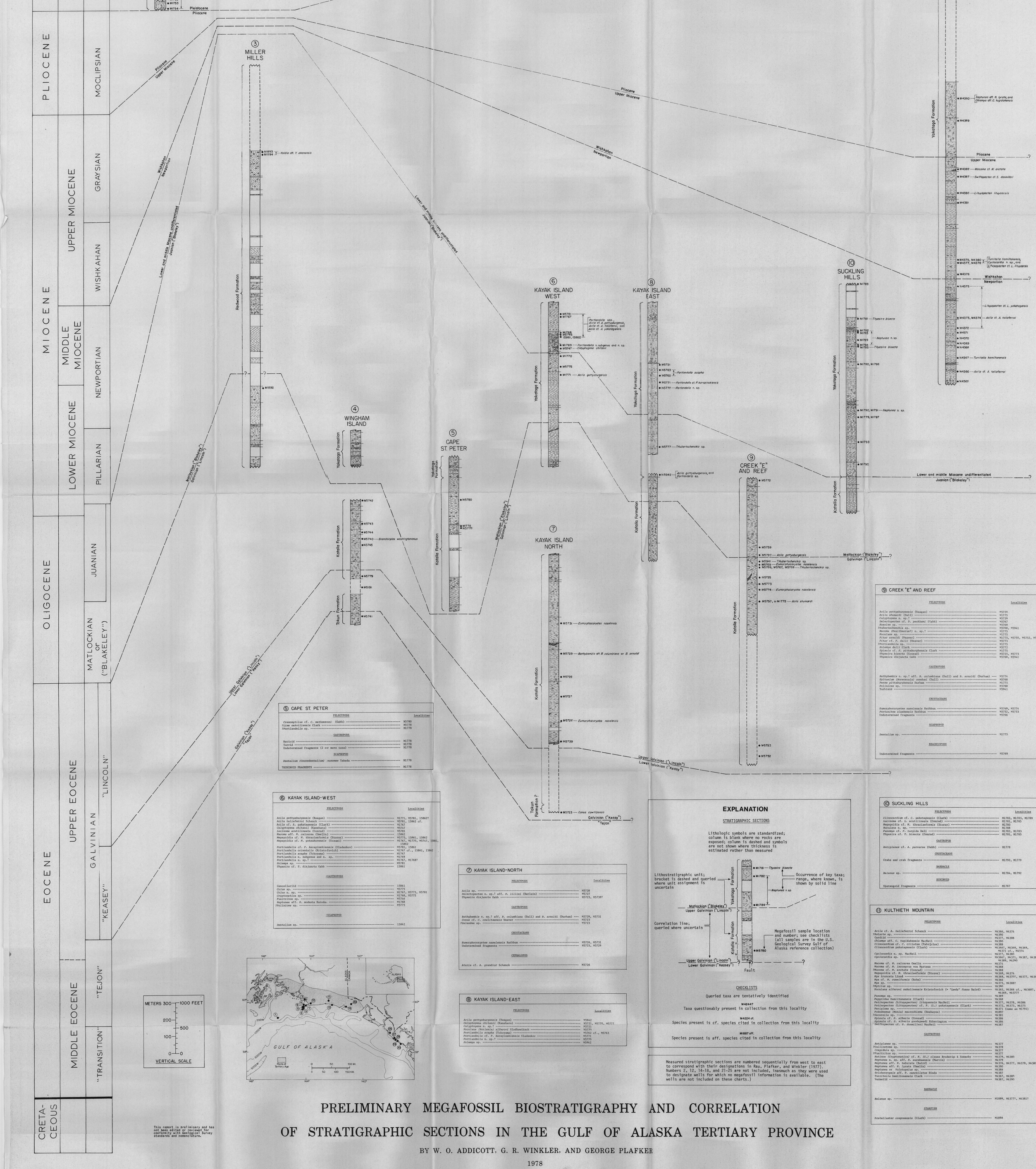
PELECYPODS	Localities
Acila gettysburgensis (Reagan)	M5720
Acila shumardi (Dall)	M1775
Calyptogena n. sp.?	M5759
Delectopecten cf. *D. peckhami* (Gabb)	M5767
Eonolen sp.	M5768
?Hubertschenckia sp.	M5768, M5941
Macoma (Rexithaerus?) n. sp.?	M1775
Nuculana sp.	M1775
Pitar arnoldi (Weaver)	M1775, M5750, M5752, M5768
Pitar cf. *P. dalli* (Weaver)	M5773
?Portlandella sp.	M1775
Solemya dalli Clark	M5772
Spisula cf. *S. pittsburghensis* Clark	M1775
Thyasira bisecta (Conrad)	M5725, M5773
Thyasira disjuncta Gabb	M5768, M5941
GASTROPODS	
Bathybembix n. sp.? aff. *B. columbiana* (Dall) and *B. arnoldi* (Durham)	M5774
Epitonium (Boreoscala) condoni (Dall)	M5768
Perse pittsburghensis Durham	M1775
Polinices sp.	M5768
Turbinid	M5941
CRUSTACEANS	
Eumorphocorystes naselensis Rathbun	M5769, M5774
Portunites alaskensis Rathbun	M5752, M5753
Undetermined fragments	M5766
SCAPHOPOD	
Dentalium sp.	M1775
BRACHIOPODS	
Undetermined fragments	M5769

⑩ SUCKLING HILLS

PELECYPODS	Localities
Clinocardium cf. *C. yakatagensis* (Clark)	M1782, M1783, M1789
Lucinoma cf. *L. acutilineata* (Conrad)	M1781, M1785
Megayoldia cf. *M. thraciaeformis* (Storer)	M1780
Nuculana n. sp.	M1788
Panomya cf. *P. turgida* Dall	M1782, M1783
Thyasira cf. *T. bisecta* (Conrad)	M1781, M1785
GASTROPOD	
Antiplanes cf. *A. perversa* (Gabb)	M1779
CRUSTACEANS	
Crabs and crab fragments	M1792, M1779
BARNACLE	
Balanus sp.	M1784, M1792
ECHINOID	
Spatangoid fragments	M1787

⑪ KULTHIETH MOUNTAIN

PELECYPODS	Localities
Acila cf. *A. taliaferroi* Schenck	M4366, M4374
?Astarte sp.	M4390
Cardiid	M4377, M4388
Chlamys aff. *C. tugidakensis* MacNeil	M4390
Clinocardium cf. *C. ciliatum* (Fabricius)	M4388
Clinocardium yakatagensis (Clark)	M4366?, M4368, M4369, M4371 cf., M4374
Cyclocardia n. sp. MacNeil	M4377, M4380
Cyclocardia sp.	M4366?, M4371, M4387, M4388, M4389, M4390
Macoma cf. *M. calcarea* Gmelin	M4374
Macoma cf. *M. inconspicua* von Martens	M4388
?Macoma cf. *M. arctata* (Conrad)	M4388
Megayoldia cf. *M. thraciaeformis* (Storer)	M4368, M4374
Mya truncata Linné	M4368, M4370?, M4377, M4386
Mya cf. *M. cuneiformis* (Bohn)	M4366
Mya sp.	M4375, M4388?
?Mytilus sp.	M4390
Nuculana alferovi sakalinensis Kristofovich (= "*Lenda*" *fossa* Baird)	M4365, M4366 cf., M4368?, M4369, M4377
Panomya sp.	M4389
Pegyridea hamiltonensis (Clark)	M4368
Patinopecten (Litupapecten) litupaensis MacNeil	M4377, M4378, M4386
Patinopecten (Litupapecten) cf. *P. (L.) yakatagensis* (Clark)	M4372, M4373, M4375
Periploma sp.	M4371 (same as M1791)
Pododesmus (Monia) macrochisma (Deshayes)	M1897
?Secundella sp.	M4381
Spisula cf. *S. albaria* (Conrad)	M4386
Spisula cf. *S. albaria yoodaspeed* Etherington	M4386
Swiftopecten cf. *S. dommilleri* MacNeil	M4387
GASTROPODS	
Antiplanes sp.	M4377
?Calliostoma sp.	M4378
Crepidula sp.	M4377
?Fusitriton sp.	M4377
Natinos (Cryptonatica) cf. N. (C.) clausa Broderip & Sowerby	M4379, M4380
Neptunea n. sp. aff. *N. eurekaensis* (Martin)	M4379
Neptunea aff. *N. tabulata* (Baird)	M4376, M4377, M4379, M4380, M4386
Neptunea aff. *N. lyrata* (Gmelin)	M4390
Neptunea or *Volutopsius* sp.	M4388
Trichotropis aff. *T. cancellatus* Hinds	M4387
Turritella hamiltonensis Clark	M4367, M4380
Vermetid	M4387, M4390
BARNACLE	
Balanus sp.	M1899, M4377?, M4381?
STARFISH	
Scutellaster oregonensis (Clark)	M1898



EXPLANATION

STRATIGRAPHIC SECTIONS

Lithologic symbols are standardized; column is blank where no rocks are exposed; column is dashed and symbols are not shown where thickness is estimated rather than measured

CHECKLISTS

Queried taxa are tentatively identified

M4244?
Taxa questionably present in collection from this locality

M4224 cf.
Species present is cf. species cited in collection from this locality

M1887 aff.
Species present is aff. species cited in collection from this locality

Measured stratigraphic sections are numbered sequentially from west to east to correspond with their designations in Rau, Plafker, and Winkler (1977). Numbers 2, 12, 14-18, and 21-25 are not included, inasmuch as they were used to designate wells for which no megafossil information is available. (The wells are not included on these charts.)

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.

PRELIMINARY MEGAFOSSIL BIOSTRATIGRAPHY AND CORRELATION OF STRATIGRAPHIC SECTIONS IN THE GULF OF ALASKA TERTIARY PROVINCE

BY W. O. ADDICOTT, G. R. WINKLER, AND GEORGE PLAFKER

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