DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OPEN-FILE REPORT 84-355
PLATE 1

CORRELATION OF MAP UNITS

SURFICIAL DEPOSITS: Qu

SEDIMENTARY, VOLCANIC, AND METAMORPHIC ROCKS

- QTy — Yakataga Formation — Holocene; Pleistocene and Pliocene — QUATERNARY; QUATERNARY AND TERTIARY
- Tr — Redwood Formation — Miocene and Oligocene(?)
- Tps — Poul Creek Formation: Sedimentary rocks, undivided — Miocene; Oligocene — TERTIARY
- Tpv — Poul Creek Formation: Volcanic rocks, undivided — Miocene; Oligocene
- Tt — Tokun Formation — Oligocene
- Tk — Kelt/With Formation — Eocene
- Ts — Stillwater Formation — Eocene
- Toca — Orca Group — Eocene(?) and Paleocene
- Tolv — Valdez Group — Eocene(?) and Paleocene; Upper Cretaceous; Lower Cretaceous — CRETACEOUS
- Km

INTRUSIVE ROCKS

- Td — Dacite of Cape Saint Elias — Miocene
- Tg — Granite and granodiorite — Oligocene
- Tgd — Gabbro and diorite — Oligocene
- Tmb — Mineres Bay Pluton — Oligocene
- Tm — Mafic plugs — Oligocene(?)
- Tgg — Granite and granodiorite — Eocene
- Tfd — Felsic dikes — Eocene(?) and Paleocene(?)

DESCRIPTION OF MAP UNITS

SURFICIAL DEPOSITS

- Qu — SURFICIAL DEPOSITS, UNDIVIDED (HOLOCENE)

SEDIMENTARY, VOLCANIC, AND METAMORPHIC ROCKS

- QTy — YAKATAGA FORMATION (PLEISTOCENE TO MIOCENE)
- Tr — REDWOOD FORMATION (MIOCENE AND OLIGOCENE?)
- POUL CREEK FORMATION (MIOCENE, OLIGOCENE, AND EOCENE) —Divided into:
  - Tps — Sedimentary rocks, undivided
  - Tpv — Volcanic rocks, undivided
- Tt — TOKUN FORMATION (OLIGOCENE AND EOCENE)
- Tk — KELTNEITH FORMATION (EOCENE)
- Ts — STILLWATER FORMATION (EOCENE)
- ORCA GROUP (EOCENE? AND PALEOCENE?)—Divided into:
  - Toc — CONGLOMERATE
  - Tos — SEDIMENTARY ROCKS, UNDIVIDED
  - Tso — PILLOW BASALT
  - Tops — PILLOW BASALT AND SEDIMENTARY ROCKS
  - Tosv — INTERBEDDED SEDIMENTARY AND MAFIC VOLCANIC ROCKS
  - Tofs — TUFFACEOUS SEDIMENTARY ROCKS
  - Tov — VOLCANIC ROCKS, UNDIVIDED
  - Tod — SHEETED DIKES
  - Togb — GABBRO
  - Tou — ULTRAMAFIC ROCKS
- VALDEZ GROUP (UPPER CRETACEOUS)—Divided into:
  - Kvs — SEDIMENTARY ROCKS, UNDIVIDED
  - Kvg — PARAGNEISS
  - Kvp — PILLOW BASALT
  - Kvgr — GREENSTONE
  - Kvd — SHEETED DIKES
  - Kvgb — GABBRO
  - Kvu — ULTRAMAFIC ROCKS
  - Kvws — INTERBEDDED VOLCANIC AND SEDIMENTARY ROCKS
- Km — McHUGH COMPLEX (LOWER CRETACEOUS)

INTRUSIVE ROCKS

- Td — DACITE OF CAPE SAINT ELIAS (MIOCENE)
- Tg — GRANITE AND GRANODIORITE (OLIGOCENE)
- Tgd — GABBRO AND DIORITE (OLIGOCENE)
- Tmb — MINERS BAY PLUTON (OLIGOCENE)
- Tm — MAFIC PLUGS (OLIGOCENE?)
- Tgg — GRANITE AND GRANODIORITE (EOCENE)
- Tfd — FELSIC DIKES (EOCENE? AND PALEOCENE?)

GEOLOGIC SYMBOLS

- CONTACT—Dashed where approximate or inferred; dotted where concealed
- FAULT—Dashed where approximate or inferred; dotted where concealed. Sense of movement unknown
- THRUST OR HIGH ANGLE REVERSE FAULT—Dashed where approximately located. Sawteeth on upthrown plate
- LINEAMENT—Identified on air photos but not on ground. Possible fault
- 10000 FELSIC DIKE—Approximate length. Too thin to show at map scale

Base from U.S. Geological Survey, Blying Sound, Seward,1953; Middleton Island, 1955; Bering Glacier, Cordova, 1959; McCarthy, Valdez, 1960; Icy Bay, 1961; Anchorage, 1962.

PLATE I

LOCATIONS OF STREAM SEDIMENT AND MORAINE SITES FROM THE CHUGACH NATIONAL FOREST, SOUTH-CENTRAL ALASKA

BY

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1984

Geology by J.E. Case, J.A. Dumoulin, M.L. Miller, S.W. Nelson, M.L. Silberman, A.B. Till, G.R. Winkler, 1980; J.A. Dumoulin, R.A. Koski, M.L. Miller, S.W. Nelson, M.L. Silberman, 1985; J.A. Dumoulin, S.M. Karl, R.A. Koski, M.L. Miller, S.W. Nelson, G.R. Winkler, 1982; Geology in western part of Seward quadrangle from Tysdal and Case (1979) and in the Don Miller Hills and Kayak Island from Winkler and Plafker (1981).