

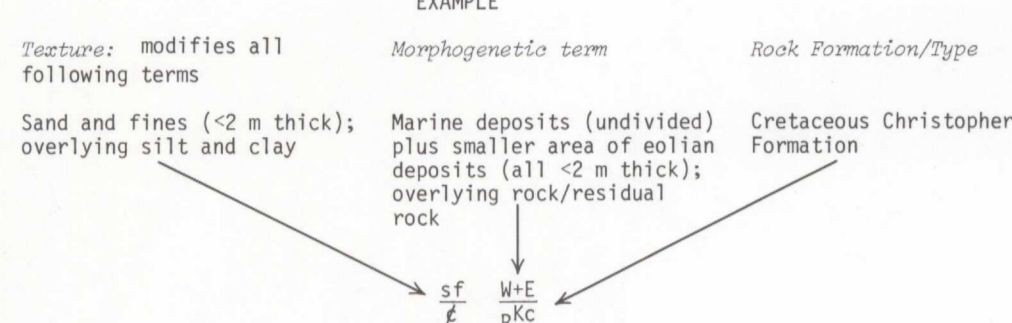
LEGEND

Morphogenetic units, shown in black, generally provide detail.

EXPLANATION OF NOTATION
The Morphogenetic term forms the core of the unit designation and describes a certain range of landforms and materials.

The *Surface Material* term provides information on the grain size distribution.

The *Rock Formation/Type* superscript provides detail on the composition or type of rock/residual units, using the notation from the relevant bedrock map of the area as the key.



TEXTURE OF SURFACE MATERIALS

The textural description of a map unit is drawn from scattered field observations, shallow drill cores, and sand/silt/clay grain size analyses of samples; from estimates of the composition of depositional landforms identified on air photographs; and from estimates of the weathering products of source rocks.

In many units, materials are composed of more than one grain size class. In such cases, classes are confined into a broader group (e.g. fines) or listed in descending order of importance.

- c: clay (<0.004 mm)
m: silt (0.004-0.063 mm)
s: silt and clay, undivided (<0.063 mm)
sf: silt and fine sand, undivided (0.004-0.25 mm)
f: fines: clay, silt, fine sand, undivided (<0.25 mm)
s: sand, includes fine sand if present (0.063-2 mm)
g: gravel, little or no fines (2-256 mm)
b: boulders (>256 mm)
r: rubble: angular rock fragments (>2 mm)
Note that the character of rubble is dependent on the source rock. e.g., consolidated sandstones may produce blocky fragments and sand, shales produce platy fragments and silt-clay. Refer to the rock formation/type superscript to determine the lithology of the source rock.

o: outcrop: exposed bedrock surface, rock intact though may be moderately weathered. Refer to rock formation/type superscript for lithology.

MORPHOGENETIC CORE TERM

Morphogenetic core terms are listed below.

SURFICIAL UNITS

E COLLUVIAL DEPOSITS: discontinuous veneer, fine sand, minor silt

Fp FLUVIAL DEPOSITS AND LANDFORMS

Fa Fluvial terrace: inactive fluvially marked surface; gravel to fines

Fst Undivided fluvial plain and terrace: combined unit, indivisible at scale of map

FF Fluvial fan: active gently inclined fan; sand

Fd Delta: gravel to fines; Fd^1 active delta; Fd^2 relict raised delta

C COLLUVIAL DEPOSITS

C Colluvium: material displaced or altered by slope processes to such a degree that it markedly differs from subjacent source materials; rubble to fines

Cv Colluvial veneer: deposit <2 m thick overlying rock

M MARINE DEPOSITS AND LANDFORMS

M Undivided marine sediments: nearshore and offshore relict marine sediment facies areas of beach, fluvial and eolian sediments, and rocks; fine gravel to clay

Mv Marine sediment veneer: deposit <2 m thick overlying rock

Md Strandline flat: relict intertidal and beach zone; level to gently inclined; dominantly sand

Mh Beach berms and swales: modern and raised beaches with measurable microrelief; sand or gravel

M DILATION DEPOSITS: silt or silt-like deposits; varies from gravel to fines

Q RELICT FLUVIAL(?) DEPOSITS

Q Gravel ridges: mid-Quaternary eskers(?); sand, minor gravel to fines

TQ Plateau gravel: remnant capping gravel, from formerly extensive fluvial(?) deposits; gravel to fines

RM Marine-reworked rock: morphologically subdued form of rock unit described below, locally overlain by marine, deltaic, or fluvial sediments

R Rock/Residual rock: bedrock commonly mantled by residual weathered rock except for most resistant lithologies. Composition indicated by textual modifier and rock formation type

Rock Formation/Type

I Igneous rock: gabbro to quartz diorites; weathers to rubble, minor sandy fines

KTe-u Eureka Sound Formation (informal upper member): chiefly poorly to noncemented; weathers to sand, silt

KTe-l Eureka Sound Formation (informal lower member): sand, silt, siltstone, shales; weathers to fine sand to silty clay

Kk Kampuk Formation: flaky to soft, highly acidic shale, minor siltstone; weathers to clayey silt and shale fragments

Kh Hessel Formation: sandstone, minor siltstone, shales; weathers to poorly cemented; weathers to sand, silt, clay, sandstone breccia

Kc Christopher Formation: soft papery shale, minor siltstone; weathers to silty clay or clay, shale fragments

Kl Isachsen Formation: sandstone, minor siltstone, minor shale, noncemented to well cemented; weathers to sand, minor silt and clay

K Crataecous (undivided): probably Hessel and Kampuk formations

Jd Deer Bay Formation: papery shale; weathers to clayey silt, rubble; interformational sandstone

Ja Jarsagak Formation: sandstone, poorly to well cemented; weathers to sand, minor silt, rubble

Jr Ringnes Formation: papery shale, minor sandstone; weathers to clayey silt, minor sandstone rubble

Js Sars Formation: shale, minor sandstone; weathers to silty clay, silt, shale fragments

Jj,h Jagger Formation, Borane Island Formation (undivided): sandstone, poorly to well cemented; weathers to silty sand, gravel, sandstone rubble

Jhu Hesters Formation (Upper Member): sandstone, poorly cemented, minor indurated outcrops; weathers to sand, sandstone rubble

Jhl Hesters Formation (Lower Member): sandstone and shale, poorly consolidated; weathers to sand, fines, rubble; rounded by dunes and silt

Tba Ilka Mountain Formation: shale, siltstone; weathers to clayey silt, inclined by thin silt, numerous dunes

Ts Schel Point Formation: siltstone and sandstone, indurated; weathers to rubble, minor silt and sand

Tb Bjorne Formation: sandstone, poorly to well cemented; weathers to sand and rubble

Pd Diapiric dome: gypsum, anhydrite, minor limestone, dunes and silt; weathers to rubble, minor sand and fines

D Dykes and sills

Coarse grained rock/residual rock: dominantly sandstone, noncemented to indurated

Fine grained rock/residual rock: shale, siltstone, minor sandstone

Coarse grained marine-reworked rock: marine-reworked form of clastic rock units described under silt

Fine grained marine-reworked rock: marine-reworked form of clastic rock units described under silt

Diapiric dome: gypsum, anhydrite, igneous rocks

Gravel ridges: sand, minor gravel to fines

Plateau gravel: gravel to fines

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