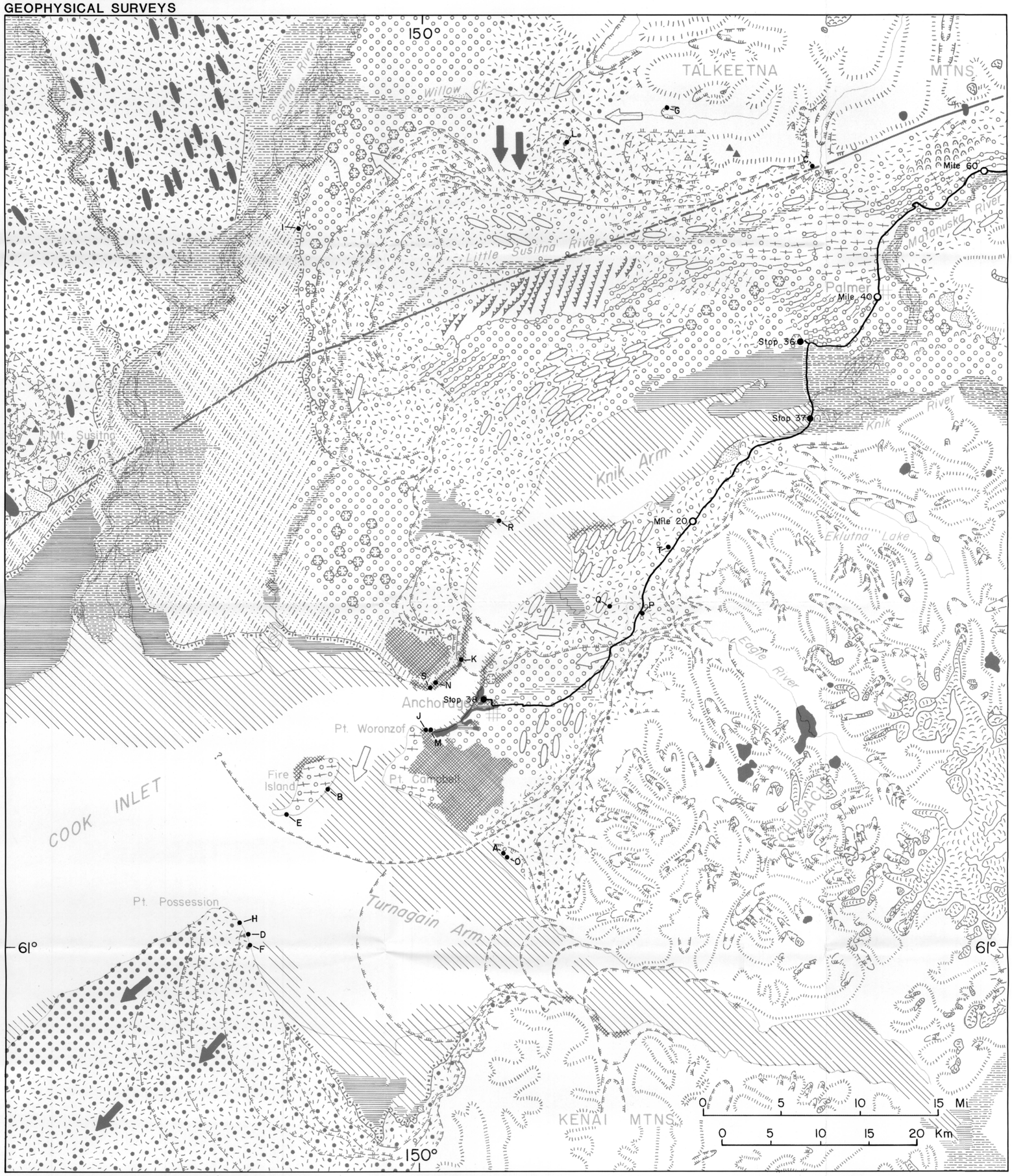
GB1-SH1

ALASKA DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

GUIDEBOOK 1
PLATE 1




# PHYSIOGRAPHIC MAP AND FIELD TRIP LOCALITIES OF THE UPPER COOK INLET AREA, ALASKA


compiled by
R.D. Reger and R.G. Updike

1982

## EXPLANATION

### LANDFORMS AND FEATURES DIRECTLY RELATED TO FORMER GLACIATIONS

| LANDFORM-FEATURE \ GLACIATION | ALASKA: Tunnel advance | ALASKA: Tustumena advance | NAPTOWNE | KNIK | EKLUTNA | CARIBOU HILLS | MOUNT SUSITNA |
|---|---|---|---|---|---|---|---|
| End moraine or former ice limit | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Rogen moraine; teeth point in direction of former basal thrusting | | | ✓ | | | | |
| Drumlin field showing dominant alignment | | | ✓ | ✓ | | | |
| Drift sheet | | | ✓ | ✓ | ✓ | ✓ | |
| Large ice-scoured bedrock outcrop | | | ✓ | | | | |
| Isolated erratics or small concentrations | | | | | | △ | ▲ |
| Complex ice-contact topography showing general landform trends | | | ✓ | ✓ | | | |
| Kame-esker complex showing dominant landform trends | | | ✓ | | | | |
| Crevasse-fill-ridge complex showing dominant landform trends | | | ✓ | | | | |
| Unpitted outwash plain, fan, or train | | | ✓ | ✓ | | | |
| Pitted outwash plain, fan, or train | | | ✓ | | | | |
| Major meltwater drainage course | | | ⇦ | ⇦ | | | |

### MODERN GLACIER

Symbols convex downglacier

### LANDFORMS, FEATURES, AND LOCALITIES NOT DIRECTLY RELATED TO GLACIATION

Exposure of Bootlegger Cove Formation or area underlain by Bootlegger Cove Formation

High-level tidal flat

Modern tidal flat

Prominent wave- or stream-cut scarp; hachures point downslope

Sandy fan-delta plain; generally underlain by Bootlegger Cove Formation

Modern flood plain and low terraces

Large alluvial fan

Large landslide

U / D — Trace of Castle Mountain fault; dashed where approximate; U on upthrown block; D on downthrown block

●D Radiocarbon sample locality listed in table

**COMPILATION SOURCES:** Daniels (1981a, b); Detterman, Hudson, Plafker, Tysdal, and Hoare (1976); Detterman, Plafker, Tysdal, and Hudson (1976); Detterman and others (1974); Kachadoorian and others (1977); Karlstrom (1964); Miller and Dobrovolny (1959); Reger (1978, 1981a, b, c, d; 1976-1982 DGGS unpublished data); Schmoll and Dobrovolny (1972); Schmoll and Yehle (1978); Schmoll and others (1972, 1980, 1981); Ulery and Updike (in press); Updike (1978-1982 DGGS unpublished data).