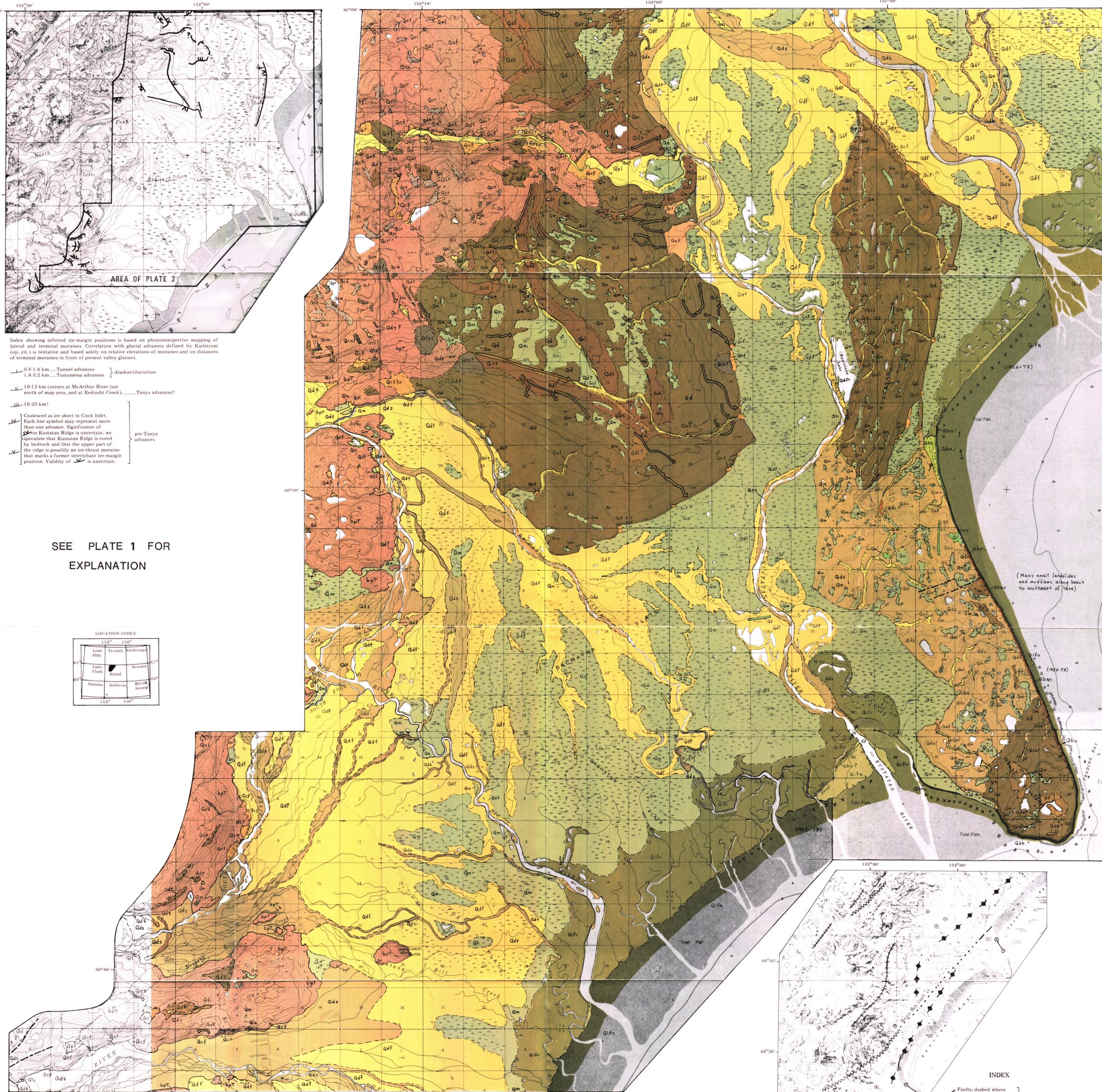
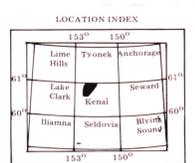


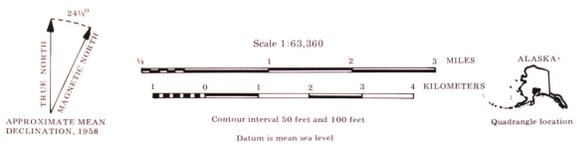
Index showing inferred ice-margin positions is based on photointerpretive mapping of lateral and terminal moraines. Correlation with glacial advances defined by Karlstrom (op. cit.) is tentative and based solely on relative elevations of moraines and on distances of terminal moraines in front of present valley glaciers.

- 0.8-1.6 km.....Tunnel advances } Alaskan Glaciation
  - 1.6-3.2 km.....Tustumena advances }
  - 10-13 km (occurs at McArthur River just north of map area, and at Redoubt Creek).....Tanya advances?
  - 16-20 km?
- } Coalesced as ice sheet in Cook Inlet. Each line symbol may represent more than one advance. Significance of on Kustatan Ridge is uncertain; we speculate that Kustatan Ridge is covered by bedrock and that the upper part of the ridge is possibly an ice-thrust moraine that marks a former interlobate ice-margin position. Validity of is uncertain. } pre-Tanya advances

SEE PLATE 1 FOR EXPLANATION

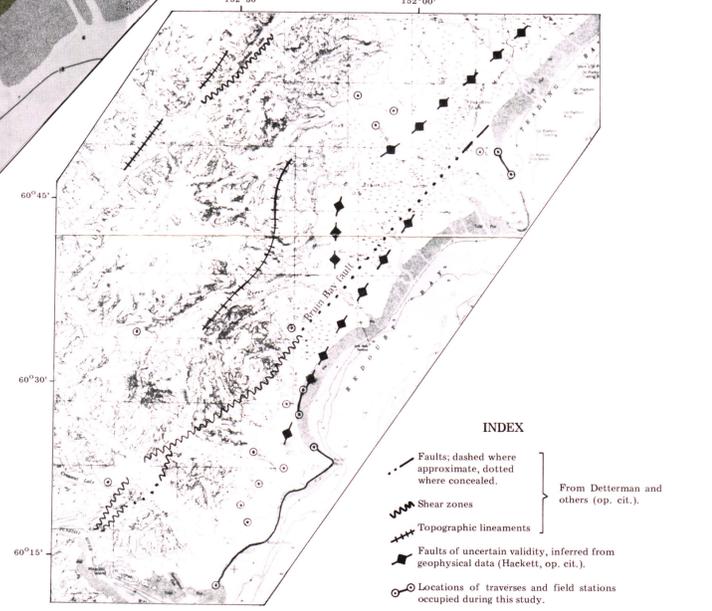


Base from U. S. Geological Survey, Kenai C-5, C-6, C-7, D-5, and D-6 Quadrangles, Alaska, 1958.



Photointerpretation by J.R. Riehle and K.S. Emmel, 1978-79; field checks by K.S. Emmel and M.D. Howland, R.F. Molina, C. Price, and J.R. Riehle, 1978.

This map produced with funds provided by the State of Alaska Office of Coastal Management.



# PHOTOINTERPRETATION MAP OF THE SURFICIAL GEOLOGY DRIFT RIVER TO MCARTHUR RIVER, COOK INLET, ALASKA

By J. R. Riehle & K. S. Emmel

1980