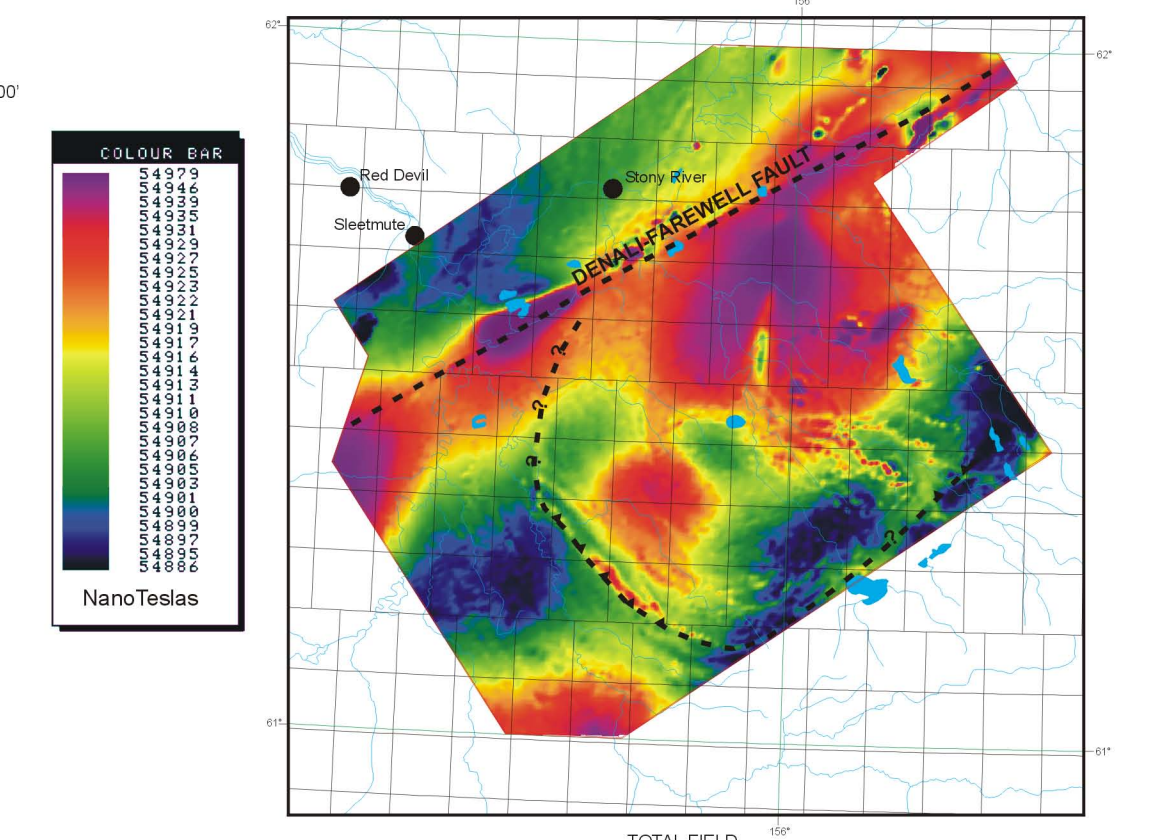
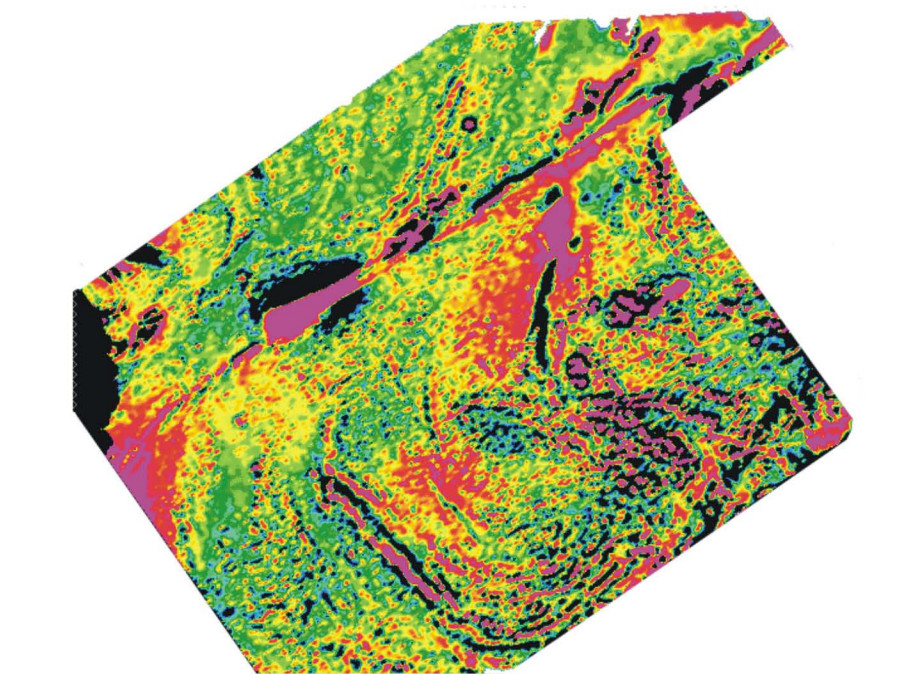


- ### EXPLANATION
- Unmapped
 - Tqm QUARTZ MONZONITE - K-Ar dates 41 million years.
 - TKg GRANITOID INTRUSIVE AND EXTRUSIVE ROCKS UNDIFFERENTIATED- K-Ar dates 65-70 million years.
 - K RHYOLITE- K-Ar dates 68-70 million years.
 - Kk KUSKOKWIM GROUP (Cady and others, 1955) - Consists primarily of submarine fan and turbidite deposits with subordinate fluvial and shallow marine strata.
 - Jsh SILTY SHALE, SILTSTONE - minor thin beds of fine-grained sandstone turbidites, and rare thin yellow-weathering volcanic ash bed. Early Jurassic (Plienebachian) age based on radiolarians fauna.
 - Tlc SILTY LIMESTONE AND CHERT - Dark gray silty limestone and bedded chert. Abundant pelecypods and gastropods. Shallow shelf environment.
 - Pllw PILLOW BASALTS
 - Pl LIMESTONE - Thickly bedded, dark gray limestone with abundant brachiopods, corals, crinoids. Open marine shelf environment.
 - UDI LIMESTONE - Thickly bedded, dark gray limestone with corals, brachiopods, stromatoporoids, and foraminifera. Open marine shelf environment.
 - DSdl LIMESTONE AND DOLOMITE - Dark gray bioclastic and crystallogal laminated limestone and dolomite. Locally abundant stromatoporoids, corals, brachiopods, gastropods, ostracods, and stromatolites. Tidal flat and restricted environment.
 - Sab Dab ALGAL LIMESTONE - Light gray, thickly bedded lime mudstone with abundant spongiostromatolite and porostromatolite algal stromatolites and oncoides, locally abundant dasycladacean algae, interbedded with thinly bedded limestone and conglomeratic limestone. Open to restricted environments near the shelf edge.
 - IPzl LIMESTONE - Peloidal, lithoclastic, breccia, and thinly bedded limestone. Slope environment.
 - OSld LIMESTONE AND DOLOMITE - Oolitic, peloidal, algal, and lithoclastic limestone and sucrosic, vuggy dolomite. Open marine to semirestricted environments.
 - OSls LIMESTONE AND SHALE - Edgewise conglomeratic, limestone turbidites and debris flows interbedded with gradifollic shale. Slope to basal deposits.
 - CZls LIMESTONE, CHERT AND SILTSTONE - Interbedded limestone, dolomite, chert, and cross-bedded to laminated reddish siltstone. Occasional beds of lime mudstone with abundant trilobite fossils. Trilobites indicate Middle Cambrian age, shelf environment.
- ### EXPLANATION OF MAP SYMBOLS
- Contacts, inferred
 - Fault, approximately located
 - Fault, concealed
 - Thrust fault, approximately located, sawteeth on upper plate
 - Thrust fault, inferred, sawteeth on upper plate
 - Fold axis, anticline
 - Fold axis, syncline
 - Outcrop Locations
 - Outline of Geophysics area

Holitna Area Aeromagnetic Data



First Derivative of Total Field



Base from U.S. Geological Survey Lake Clark (1958), Lime Hills (1958), Sleethmute (1954) and Taylor Mtns (1954) Quadrangles, Alaska

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T.N. Smith (1983-1984), R.B. Blodgett (1983-1985, 1998), J.G. Clough (1983-1984, 1998), R.W. Kornbrath (1983), Dave LePain (1998), John Decker (1983-1984), Robinson and others (1984), Gilbert (1981), Cady and others (1955), Bundtzen and others (1994), Ray Sullivan (1984), Robert Egbert (1984) Electronic Cartography by Alfred G. Sturmann (1999)

GENERALIZED GEOLOGIC MAP, HOLITNA AREA, ALASKA

By

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1999