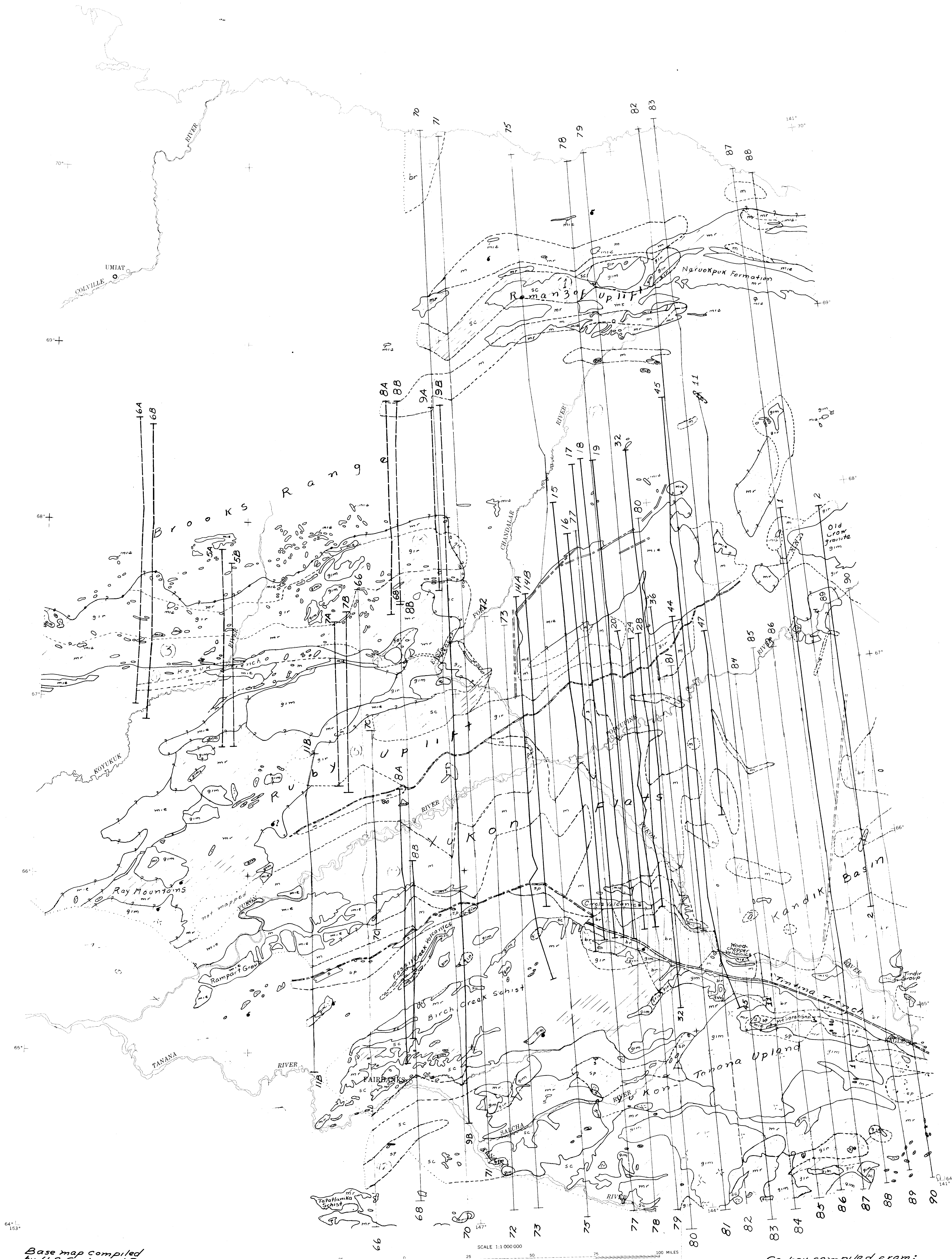


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EXPLANATION

- blank**
Exposed sedimentary rocks and surficial deposits; no concealed crystalline rocks inferred from magnetic data. In Yukon-Tanana upland includes Tanaia flows, and may include some meta-morphic rocks. Precambrian to Recent in age.
- gim**
Exposed crystalline rocks
Granitic intrusive rocks and migmatite.
- gir**
Concealed crystalline rocks inferred from magnetic data
Granitic intrusive rocks.
- miv**
Mafic intrusive and extrusive rocks; gneiss and schist areas of schist in the Tindir Group, Pass Creek, Woodchopper and Circle Volcanics, and Rampart Group.
- mW**
Mafic intrusive and extrusive rocks. N, negatively magnetic dikes.
- s**
Serpentine Paleozoic(?) in age.
- sp**
Area of serpentine pods in schist and sedimentary rocks.
- mr**
Metamorphic rocks. Includes Birch Creek and Totafamka Schists; Kuvukout formation and unnamed schists in southern Brooks Range. Includes phyllite and greenschist in marginal facies Paleozoic and Precambrian(?) in age.
- sc**
Schist.
- br**
Basement rocks of Precambrian(?) age or deep intrusive rocks.
- Geologic contact queried where doubtful
- Metamorphic facies boundary
- Fault inferred from surface data
- Hot spring queried where uncertain
- Boundary of magnetic rock unit
- Fault inferred from magnetic data
- scratch boundary limit of geologic patterns
- Line of airborne magnetometer traverse
- 82 Elevation 5000 feet above sea level where possible. Dashed where approximately located.
- 15 Elevation 2500 feet above sea level where possible.
- 6A Elevation 1000 feet above sea level where possible.



Base map compiled by U.S. Geological Survey from uncontrolled mosaic of Alaska Topographic Series quadrangle maps.

Figure 1 Geologic map of northeastern Alaska interpreted from geologic and aeromagnetic data
W.P. Brosge, E.E. Brabb and E.R. King

Geology compiled from:
Mandanhall, 1902
Madden, 1913
Eakin, 1916
Martie, 1937
White, 1952
Brosgé and Reiser, 1960, 1962, and unpublished
Foster and Schmoll, 1963
Williams, 1963
Brabb and Chukrum, 1964, 1965
Weber and others, 1967
Lathram, 1965
Péwé, Wahrhaftig and Weber, 1966

MAP IS PRELIMINARY AND SHOULD BE USED ONLY FOR GENERAL INFORMATION. IT IS NOT TO BE USED FOR ENGINEERING OR CONSTRUCTION PURPOSES WITHOUT CONSULTING THE U.S. GEOLOGICAL SURVEY.

(5) Location of magnetic rock feature