

Qr	SURFICIAL DEPOSITS, UNDIFFERENTIATED (Quaternary).	JrR	TRACHYDENDITE (Upper Jurassic).
Tv	VOLCANIC ROCKS, UNDIFFERED (Paleocene to Pleistocene(?)--Intrusive and mafic subaerial volcanic rocks and related shallow formations.	Jnc	JURASSIC SEDIMENTARY ROCKS, UNDIFFERED (Middle and Upper Jurassic)--Includes Nainne and Chinitia Formations, and Tuxedoi Group.
Tsu	TERTIARY SEDIMENTARY ROCKS, UNDIFFERENTIATED (Paleocene to Miocene)--Terrestrial, mostly fluviatile strata with a few lignite interbeds.	JtL	CRYSTAL TUFF, ARGILLITE, CHERT, GRAYWACKE, and LIMESTONE (Lower to Upper Jurassic)--Shallow to moderately deep marine, intercalated sequence.
Tgd	GRANDODORITE (Eocene).	Jpm	PLUTONIC and METAMORPHIC ROCKS, UNDIFFERENTIATED (Lower to Upper Jurassic)--Mainly quartz diorite, granodiorite, amphibolite, and gneisschist.
Tgdg	BIOTITE and HORNBLENDE GRANDODORITE (Paleocene, in part early Eocene).	JtK	TALKEENA FORMATION (Lower Jurassic).
Tmg	SCHIST, MICAHITE, and GRANITE (Paleocene Intrusive and metamorphic ages)--Migmatitic border zone of biotite and hornblende granodiorite.	Tbvs	METABASALT and SLATE (Upper Triassic)--Intercalated, shallow-water marine sequence.
Tkt	TOWALITE (Upper Cretaceous and lower Paleocene).	TbL	BASALTIC METAVOLCANIC ROCKS (Upper Triassic)--Mainly shallow water marine metabasalt flows.
Tra	ADAMELITE (Upper Cretaceous and lower Paleocene).	Pzv	BASALTIC and ANDESITIC METAVOLCANIC ROCKS (Pennsylvanian?) and Early Permian)--Metamorphosed surface sequence of inter-layered basaltic to andesitic flows, tuffs, coarse volcaniclastic rocks, and subordinate mudstone and limestone.
Tgr	GRANITIC ROCKS, UNDIFFERED (Cretaceous and/or Tertiary).	Esga	GRAYWACKE, ARGILLITE, SHALE, and LIMESTONE (Silurian?) to Middle Devonian--Intercalated marine sequence, probably continental margin deposits.
Kar	ARKOSE RIDGE FORMATION (Lower and/or Upper Cretaceous).		
Kt	KATANKA FORMATION (Lower and Upper Cretaceous).		
Ksu	SEDIMENTARY ROCKS, UNDIFFERED (Lower Cretaceous)--Shallow marine sequence of calcareous sandstone, claystone, and massive clastic limestone.		
Kag	ARGILLITE and LITHIC GRAYWACKE (Lower Cretaceous)--Intercalated, marine, flyschlike sequence.		
Jb	SEDIMENTARY AND VOLCANIC ROCKS, UNDIFFERED (Upper Jurassic)--Marine sequence of argillite, graywacke, conglomerate, and andesitic to latitic feldspar porphyry dikes and intercalated flows.		

Contact, approximately located

Approximate contact of surficial deposits

0 -----

Fault

Long dashed where approximately located; short dashed where inferred;
dotted where concealed. ^ indicates upthrown side where direction
of displacement is known. Arrows indicate relative lateral movement.

Thrust fault

Long dashed where approximately located, dotted where concealed.
Teeth indicate upthrown side.

Approximate axis or intense shear zone of variable width, possibly
marking a thrust fault

Dotted where concealed; teeth indicate possible upthrown side of
postulated thrust

In the course of U.S.Geological Survey investigations of the Taletka Mountains quadrangle, 1118 stream sediment, 852 heavy mineral concentrate, and 501 rock samples were collected. All of these samples were analyzed for up to 30 elements by a six-step sequential extraction method (Miller and Miller, 1962; Miller, 1968). Most of the stream sediment and rock samples were also analyzed for up to 4 elements by atomic absorption spectroscopy and 14 elements by neutron activation analysis. Figure 2 shows the sample collection sites of 1117 stream sediment samples and 852 heavy mineral concentrates which were analyzed for silver by the spectrographic method. Complete analytical data for the stream sediment and heavy mineral concentrate samples, sampling and analytical procedures for samples from sites shown on the present map are published in a report by Miller and others (1969).

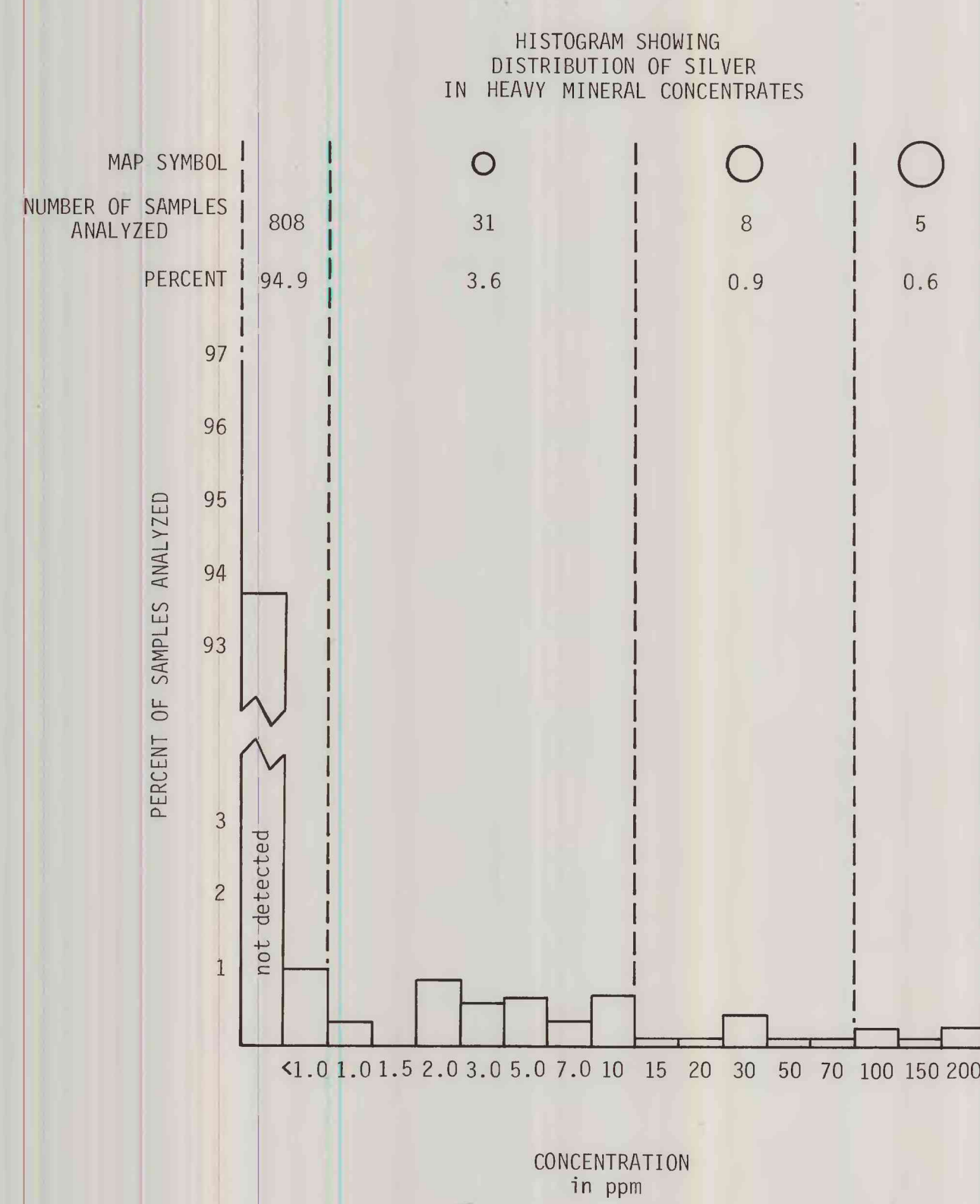
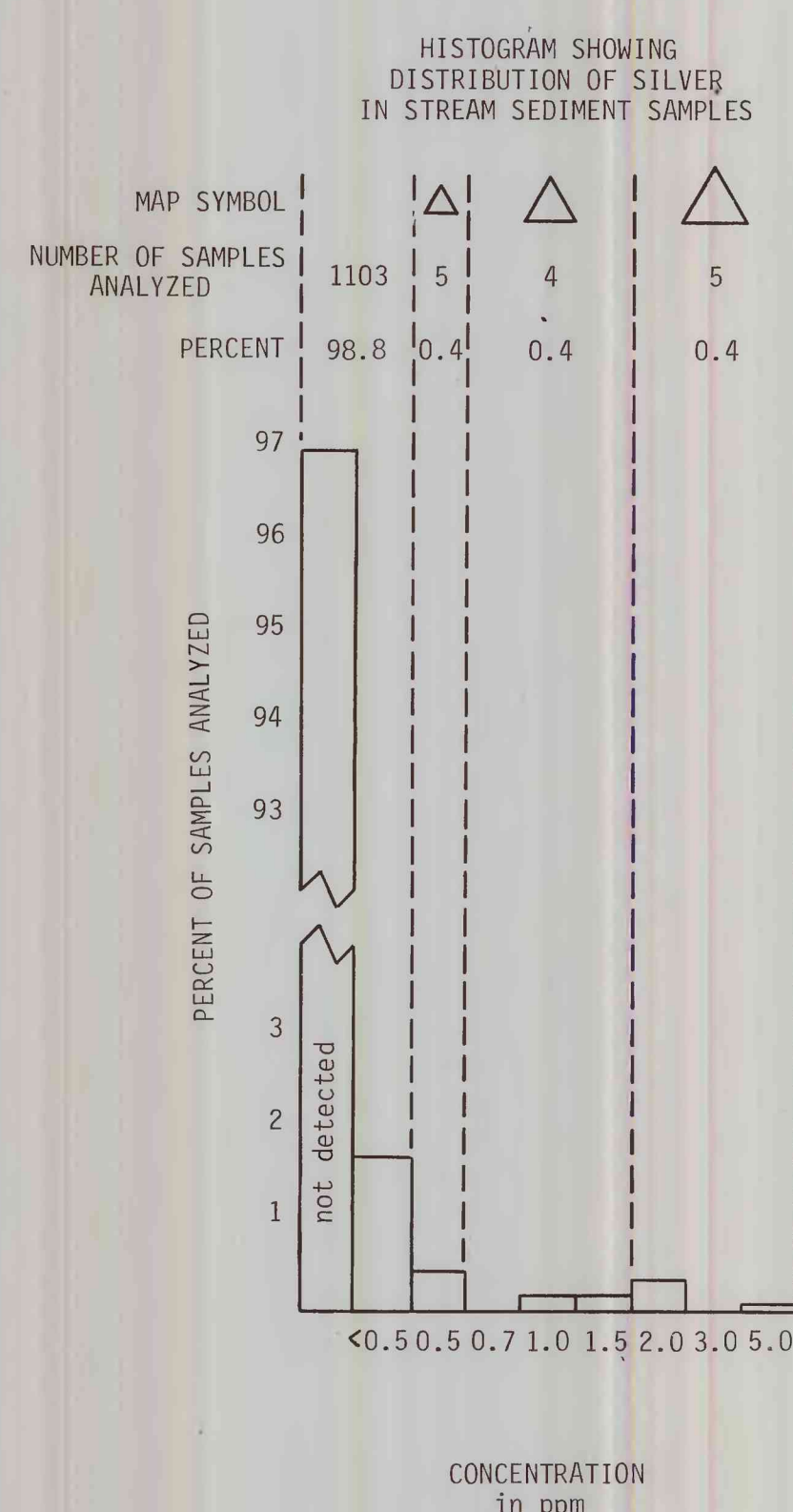
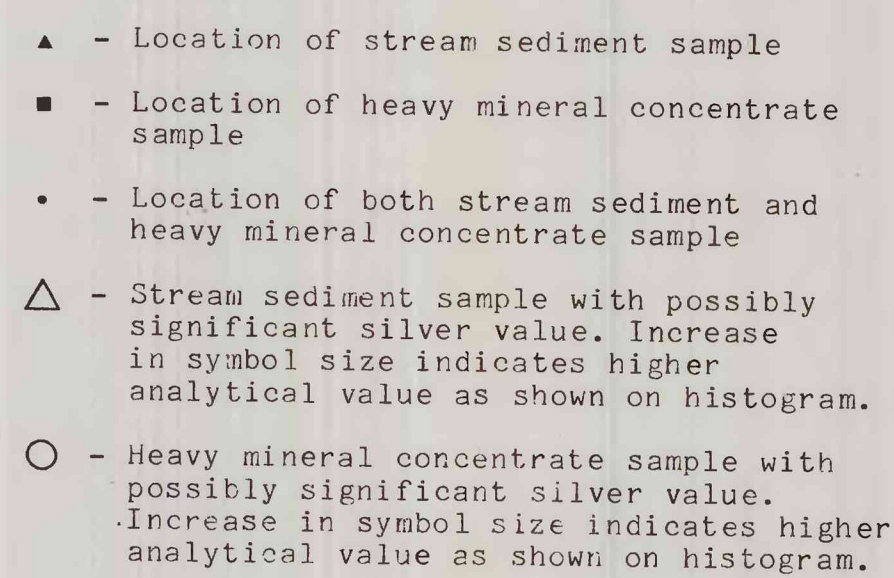
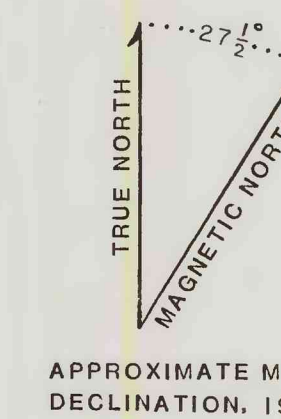
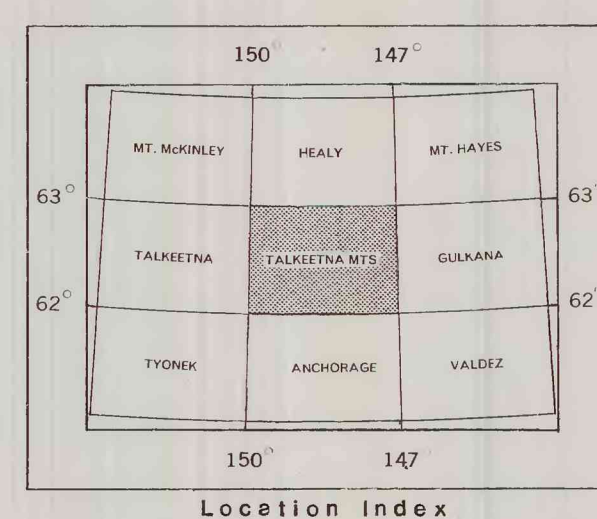
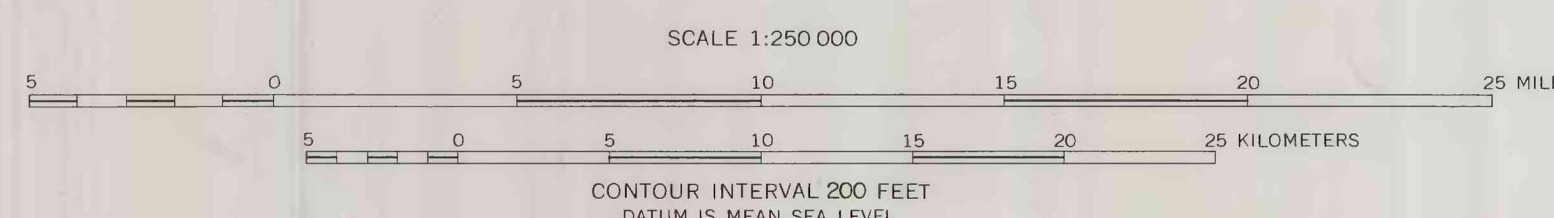
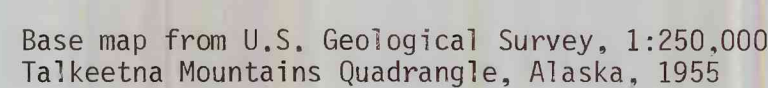
Concentration of metals in geochemical samples varies for different lithologies and in different areas. Because of this, as well as variability introduced from other sources such as analytical and analytical methods, and regional and local weathering, it is impossible to select a specific analytical level above which values might indicate the presence of silver deposits. For this reason, the analytical results have been grouped into ranges (see histograms) each range being represented by a different symbol on the map. Higher values may indicate a greater likelihood of silver deposits, but confidence in the low to "high" ranges is low, and for results which are not supported by neighboring values.

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This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.