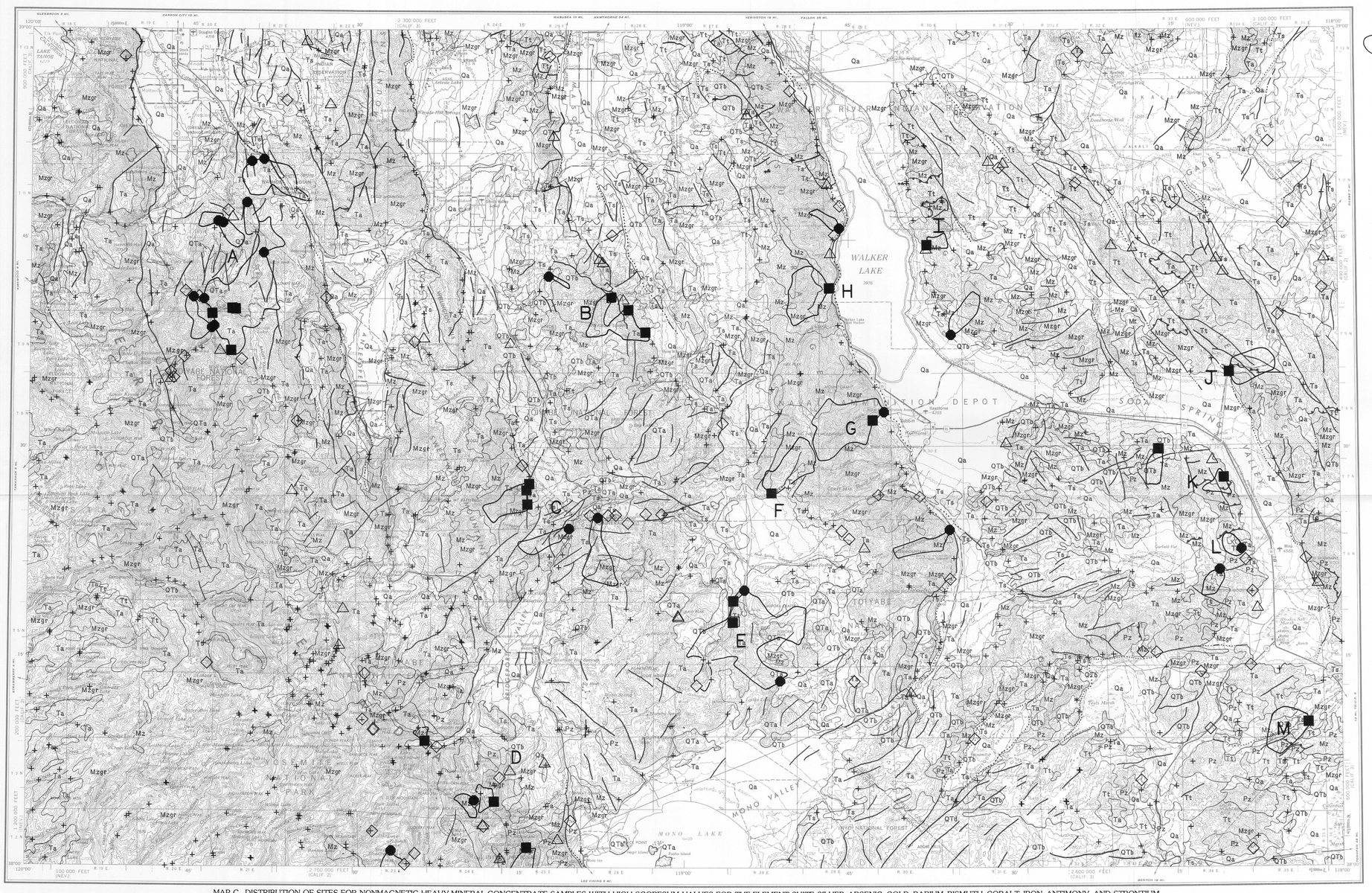


MAP C. DISTRIBUTION OF SITES FOR NONMAGNETIC HEAVY-MINERAL-CONCENTRATE SAMPLES WITH HIGH SCORESUM VALUES FOR THE ELEMENT SUITE SILVER, ARSENIC, GOLD, BARIUM, BISMUTH, COBALT, IRON, ANTIMONY, AND STRONTIUM

EXPLANATION

SAMPLE LOCALITY AND BOUNDARY OF ASSOCIATED DRAINAGE BASIN--Anomalous for three or more selected elements. Locality is at center of plotted symbol. Square symbol indicates upper 2% of the data (98th percentile). Circle symbol is next 3%; diamond, next 5%; triangle, next 5%; and plus symbol (+), remaining 85%. Darkened symbols identify the most significant sample sites

J SIGNIFICANT ANOMALOUS AREA OR SITE--Letter is keyed to list in text

MAP D. DISTRIBUTION OF SITES FOR NONMAGNETIC HEAVY-MINERAL-CONCENTRATE SAMPLES WITH HIGH SCORESUM VALUES FOR THE ELEMENT SUITE SILVER, ARSENIC, GOLD, BORON, BARIUM, BISMUTH, CADMIUM, COBALT, COPPER, IRON, LEAD, ANTIMONY, STRONTIUM, AND ZINC

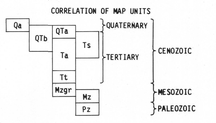
EXPLANATION

SAMPLE LOCALITY AND BOUNDARY OF ASSOCIATED DRAINAGE BASIN--Anomalous for two or more selected elements. Locality is at center of plotted symbol. Square symbol indicates upper 2% of the data (98th percentile). Circle symbol is next 3%; diamond, next 5%; triangle, next 5%; and plus symbol (+), remaining 85%. Darkened symbols identify the most significant sample sites

H SIGNIFICANT ANOMALOUS AREA OR SITE--Letter is keyed to list in text

Note: The following correlation and description of map units are for the geologic base map shown in gray

CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

Qa ALLUVIAL, LACUSTRINE, EOLIAN, LANDSLIDE, AND GLACIAL DEPOSITS, UNDIVIDED (QUATERNARY)--As mapped locally includes uppermost Tertiary gravel

QTb BASALT (QUATERNARY AND TERTIARY)--Ranges in age from about 9 m.y. to less than 1 m.y.

QTa ANDESITE TO RHYOLITE (QUATERNARY AND TERTIARY)--Andesite flows and breccia. Minor rhyolitic flows and shallow intrusive rocks. Ranges in age from about 5 m.y. to less than 1 m.y.

Ts SEDIMENTARY ROCKS (TERTIARY)--Tuffaceous sandstone, siltstone, and conglomerate to gravel. Minor tuff and volcanic breccia. Ranges in age from about 12 m.y. to 2 m.y.

Ta ANDESITE TO RHYOLITE (TERTIARY)--Andesite flows and breccia. Minor rhyolitic flows and shallow intrusive rocks, latitic to rhyolitic ash-flow tuffs, and sedimentary rocks; sparse basalt; includes some intrusive rocks. Ranges in age from about 22 m.y. to 5 m.y.

Tt TUFF (TERTIARY)--Welded and nonwelded rhyolitic ash-flow tuff. Minor rhyolite flows and shallow intrusive rocks, andesite flows, and sedimentary rocks; sparse basalt; includes some intrusive rocks. Ranges in age from 30 m.y. to 22 m.y.

Mzgr GRANITIC ROCKS (MESOZOIC)--Granite to granodiorite. Minor dioritic, gabbroic, and felsic intrusive rocks

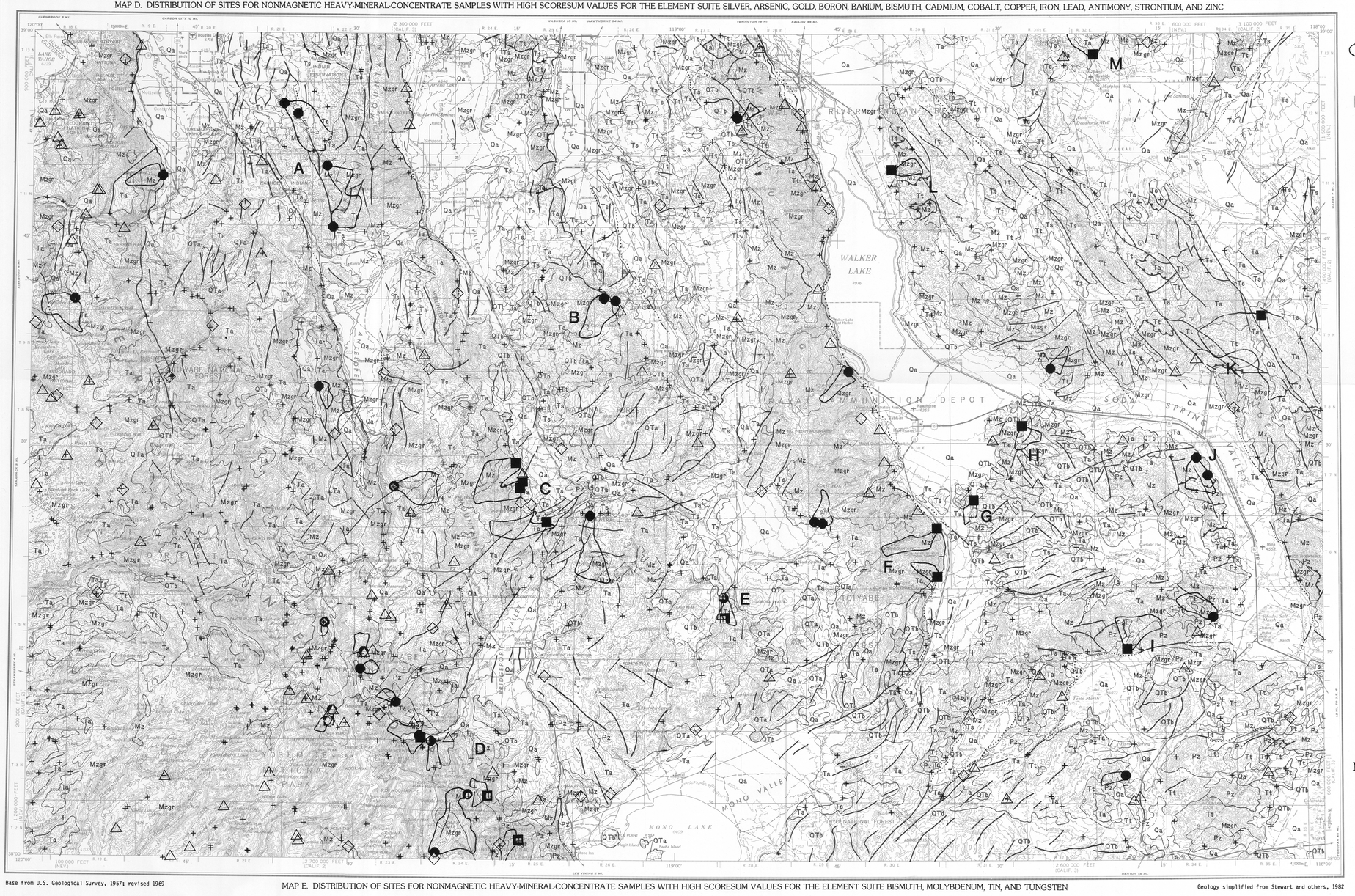
Mz VOLCANIC AND SEDIMENTARY ROCKS, UNDIVIDED (MESOZOIC)--Andesitic to rhyolitic lava flows, breccia, tuff, volcanic sandstone, and conglomerate; shallow marine siltstone, sandstone, conglomerate, and limestone; continental sandstone and conglomerate. Metamorphosed near granitic rocks

Pz SEDIMENTARY AND VOLCANIC ROCKS, UNDIVIDED (PALEOZOIC)--Deep-water marine chert, phyllite, shale; carbonate rocks, volcanogenic turbidite, sandstone, and conglomerate (Ordovician, Devonian, Pennsylvanian, and Permian); shallow-water siltstone, sandstone, conglomerate, and carbonate (Cambrian, Mississippian, and Permian; as mapped includes upper Proterozoic rocks at one locality); and andesitic breccia and lava (Permian). Metamorphosed near granitic rocks

GEOLOGIC CONTACT

HIGH-ANGLE FAULT--Dotted where concealed

THRUST OR LOW-ANGLE FAULT



MAP E. DISTRIBUTION OF SITES FOR NONMAGNETIC HEAVY-MINERAL-CONCENTRATE SAMPLES WITH HIGH SCORESUM VALUES FOR THE ELEMENT SUITE BISMUTH, MOLYBDENUM, TIN, AND TUNGSTEN

EXPLANATION

SAMPLE LOCALITY AND BOUNDARY OF ASSOCIATED DRAINAGE BASIN--Anomalous for two or more selected elements. Locality is at center of plotted symbol. Square symbol indicates upper 2% of the data (98th percentile). Circle symbol is next 3%; diamond, next 5%; triangle, next 5%; and plus symbol (+), remaining 85%. Darkened symbols identify the most significant sample sites

M SIGNIFICANT ANOMALOUS AREA OR SITE--Letter is keyed to list in text

QUADRANGLE LOCATION

SCALE 1:250 000

CONTOUR INTERVAL 200 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MAPS SHOWING DISTRIBUTION OF ANOMALIES BASED ON THE USE OF SCORESUM PLOTS FOR SELECTED GROUPINGS OF ELEMENTS IN SAMPLES OF NONMAGNETIC HEAVY-MINERAL CONCENTRATE, WALKER LAKE 1° X 2° QUADRANGLE, CALIFORNIA AND NEVADA

By
M.A. Chaffee
1988

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1988

For sale by U.S. Geological Survey Map Distribution, Box 25286, Federal Center, Denver, CO 80225

Base from U.S. Geological Survey, 1957; revised 1969

Geology simplified from Stewart and others, 1982