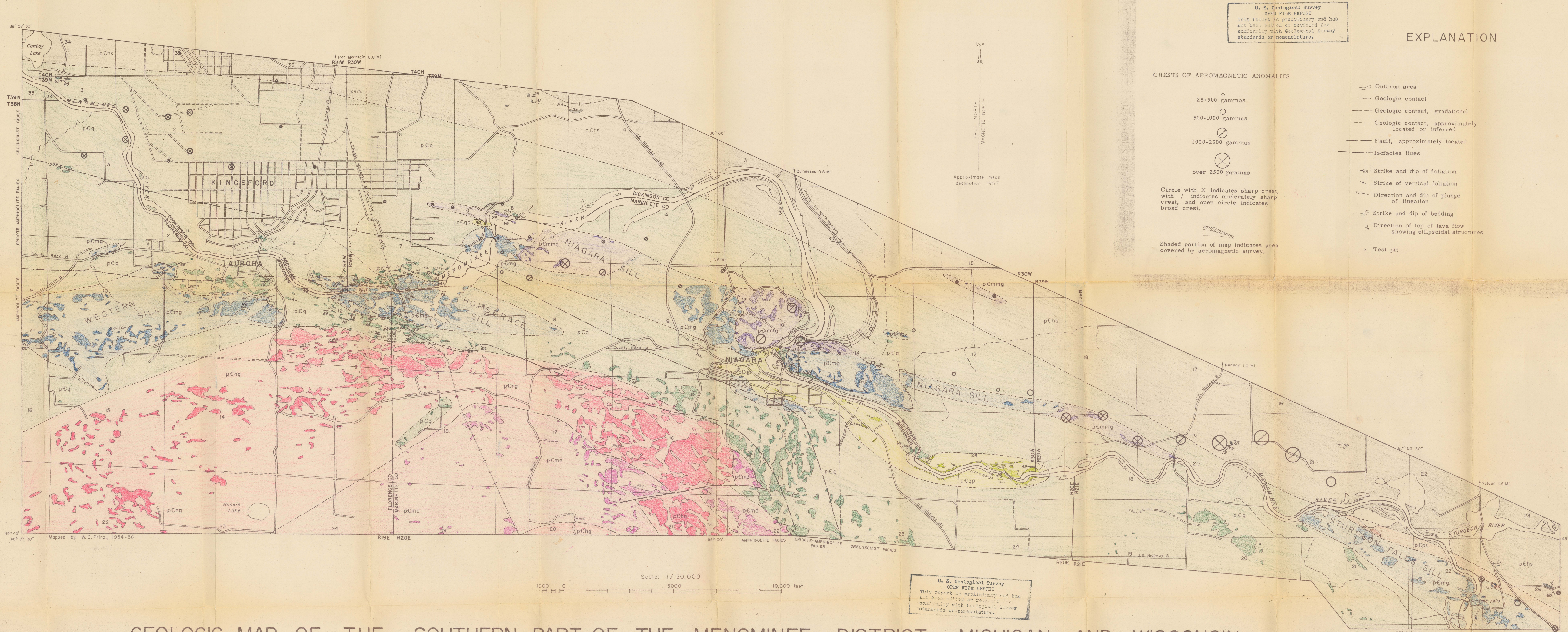
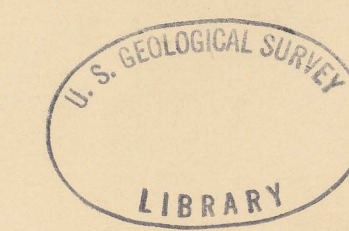


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U. S. Geological Survey
OPEN FILE REPORT
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not been edited or reviewed for
conformity with Geological Survey
standards or nomenclature.

EXPLANATION

CRESTS OF AEROMAGNETIC ANOMALIES

- 25-500 gammas
- 500-1000 gammas
- 1000-2500 gammas
- over 2500 gammas

Circle with X indicates sharp crest,
with / indicates moderately sharp
crest, and open circle indicates
broad crest.

Shaded portion of map indicates area
covered by aeromagnetic survey.

- Outcrop area
- Geologic contact
- Geologic contact, gradational
- Geologic contact, approximately
located or inferred
- Fault, approximately located
- Isotach lines
- Strike and dip of foliation
- Strike of vertical foliation
- Direction and dip of plunge
of lineation
- Strike and dip of bedding
- Direction of top of lava flow
showing ellipsoidal structures
- Test pit

- UPPER PRECAMBRIAN
 - Dol
 - Diabase dikes
 - Rhy
 - Aplite dikes
 - BD
 - Metadolerite dikes
- MIDDLE PRECAMBRIAN
 - pCmg
 - Metagabbro sills. Contain patches of porphyritic
metagabbro, Por, or granophyre, Gph;
and inclusions of granitic rock, Gr, or
black slate, BSl. Also contain inclusions
of, or grade into, amphibolite, Am. Some
stippled parts of outcrops are identified by
letter symbol.
 - pCmng
 - Magnetite-rich metagabbro member
- LOWER PRECAMBRIAN ?
 - pChs
 - Michigamme formation. Sericitic and dolomitic slate
and some carbonate iron-formation, If.
- UNCONFORMITY
- LOWER PRECAMBRIAN
 - Dac
 - Dacite porphyry dikes
 - pChg
 - Hoskin Lake granite. Contains inclusions of am-
phibolite, Am, shown by stipple pattern
and letter symbol.
 - pCmd
 - Marquette quartz diorite
 - pCq
 - Quinneses formation. Mainly mafic extrusive rocks
metamorphosed to greenstone and amphibolite.
Contains some ellipsoidal, E1, and amyg-
daloidal, Amy, structures. Also includes
some pyroclastic rocks, Pyr, biotite, chlo-
rite, or hornblende schist, Sch, quartzite,
Qtz, arkose, Ark, and iron-formation, If;
and is cut by granitic dikes, Gr. Some
stippled parts of outcrops are identified by
letter symbol.
 - pCqp
 - Pier Gorge schist member. Sericitic and
chloritic schist. Also includes some
greenstone, Gst, and ellipsoidal
greenstone, E1.
- PRECAMBRIAN (relative age unknown)
 - pCps
 - Pyroxenite and serpentinite

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GEOLOGIC MAP OF THE SOUTHERN PART OF THE MENOMINEE DISTRICT, MICHIGAN AND WISCONSIN