DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

AEROMAGNETIC DATA PREPARED IN COOPERATION WITH
THE MAINE GEOLOGICAL SURVEY

GEOPHYSICAL INVESTIGATIONS
MAP GP-312

EXPLANATION

POST-DEVONIAN

d — Diabase; t — Teschenite

Middle Devonian

Dm — Mapleton Sandstone
Poorly consolidated red sandstone, conglomerate, and shale

Middle(?) Devonian

Dg, Dga, Dd — Plutonic rocks
Dg, *light-colored granitic rocks*
Dga, *gabbro*
Dd, *diorite*

DEVONIAN

Dssc — Sandstone, slate, and conglomerate
Predominantly dark-colored. Includes Tomhegan Formation

Dv, Dl — Felsic igneous rock
Dv, *volcanic rock. Includes Kineo Volcanic Member*
Dl, *intrusive equivalents*

Ddg — Diabase and greenstone
Includes intrusive and extrusive rocks

Lower Devonian

Dss, Ds, Dsg — Sandstone, slate, and greenstone
Dss, *dark-colored sandstone and slate, includes Turrentine Formation*
Ds, *dark-colored, commonly cyclically layered slate, includes Seboomook Formation*
Dsg, *fine to medium grained sandstone and greenstone includes Prentenoe Formation*

Dls, Dvg, Dsl, Dsc, Drs, Da — Sedimentary and volcanic rocks
Dls, *limestone, limestone conglomerate, and slate; includes Beck Pond Limestone*
Dvg, *felsic and mafic volcanic rocks with interbedded sedimentary rocks*
Dsl, *olive-drab, cyclically layered slate*
Dsc, *Chapman Sandstone, dark-colored sandstone and slate*
Drs, *red slate, contains some green slate, volcanic rocks, and quartzite, includes Whisky Quartzite and Cupsuptic Formation*
Da, *Elmwade Hill Andesite of Gregory (1900); dark-colored andesite*

SILURIAN OR ORDOVICIAN

DSv — Greenstone, diabase, and trachyte

DSls — Calcareous sedimentary rocks
Calcareous slate, calcareous sandstone, limestone, limestone conglomerate, and tuffaceous sandstone

SILURIAN

Upper Silurian

Scs — Conglomerate, sandstone, and arkose
Includes Hobbstown Formation, which may be Devonian in part

Ssl — Calcareous sedimentary rocks
Limestone, calcareous sandstone, and slate. Includes Hardwood Mountain and Lobster Lake Formations

Lower Silurian

Ssm, Svf, Sls, Ssc — Sedimentary and volcanic rocks
Ssm, *slate with manganese-rich bands. Contains basal felsic volcanic rocks (Svf) near Haven Mountain*
Sls, *limestone and calcareous sandstone*
Ssc, *sandstone and conglomerate*

Svf, Ssg — Sedimentary and volcanic rocks
Ssg, *green slate and greywacke enclosing lenses of felsic volcanic rocks (Svp)*

Su — Sedimentary rocks
Undifferentiated limestone, calcareous slate, and calcareous sandstone, some conglomerate and tuff locally

ORDOVICIAN OR SILURIAN

SOv — Felsic and mafic volcanic rocks

ORDOVICIAN

Og, Od, Oga, Os — Intrusive igneous rocks
Og, *light-colored granitic rocks*
Od, *diorite*
Oga, *gabbro*
Os, *serpentine*

Upper Ordovician

Osc, Osg — Sandstone and slate
Osc, *calcareous sandstone and siltstone*
Osg, *gray slate*

Middle Ordovician

Ols — Limestone
Platy beds of limestone separated by thin shale partings and occasional greywacke beds

Oss, Ot, Ov — Sedimentary and volcanic rocks
Oss, *dark-colored slate, sandstone, and chert*
Ot, *felsic tuff. Includes Kennebec Formation*
Ov, *mafic and felsic flows and tuffs*

Osl — Sedimentary rocks
Calcareous greywacke, conglomerate and gray slate

Lower Ordovician

Ovm — Mafic volcanic rocks

CAMBRIAN OR ORDOVICIAN

OCu, OCvf, OCvm — Sedimentary and volcanic rocks
OCu, *undifferentiated sedimentary rocks, may include some igneous rocks locally*
OCvf, *felsic volcanic rocks*
OCvm, *mafic volcanic rocks*

CAMBRIAN(?)

Cs — Slate and sandstone
Thin-bedded phyllitic slates with interbedded sandstone and rare tuff

CAMBRIAN, ORDOVICIAN, SILURIAN OR DEVONIAN

DCus, DCuv — Sedimentary and volcanic rocks
DCus, *undifferentiated sedimentary and volcanic rocks*
DCuv, *felsic and mafic volcanic rocks*

PRE-CAMBRIAN(?)

pCsg — Schist and gneiss

Contact
Solid in areas of detailed mapping; dashed where inferred on basis of lithologic similarity, topography, magnetic anomalies, or paleontology; dotted where concealed by water

Schematic contact showing facies change or interfingering sedimentary rocks

Boundary between area where map units are shown in detail and where they are not differentiated

Fault
Dashed where inferred

Contact-metamorphosed rocks (hornfels)

3000 — Magnetic contours
Dashed where data are incomplete; show total intensity relative to an arbitrary datum. Contour intervals 10, 50, and 100 gammas.

LINE 6 — 02 — 03 — Flight line showing check points

Magnetic contour enclosing area of lower magnetic intensity

AEROMAGNETIC PROFILES ACROSS THE ALLAGASH RIVER ALONG FLIGHT LINES SHOWN IN NORTH-CENTRAL PART OF MAP

INDEX MAP EXPLANATION

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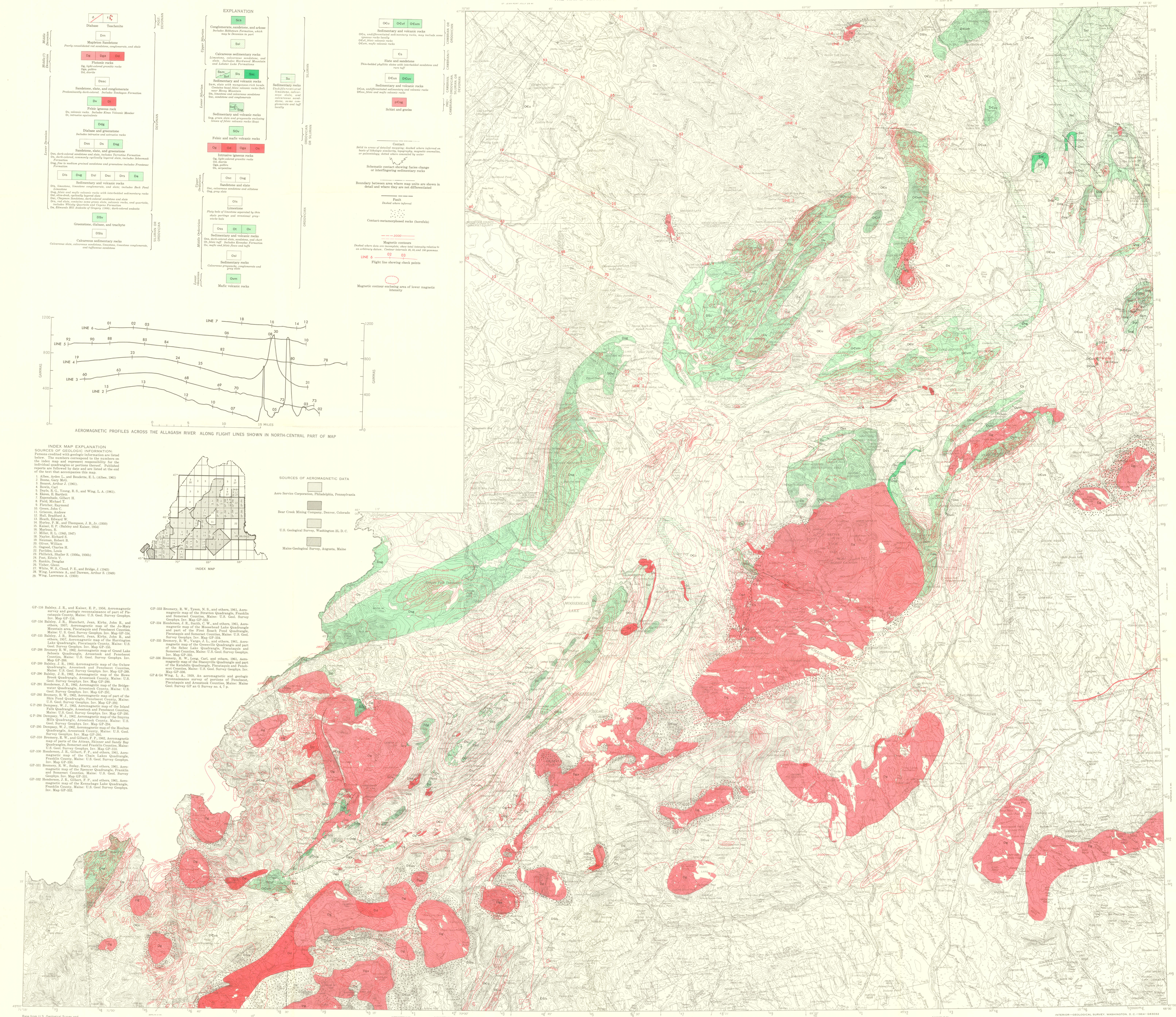

Base from U.S. Geological Survey and Army Map Service topographic maps

APPROXIMATE MEAN DECLINATION, 1964

GEOLOGIC AND AEROMAGNETIC MAP OF NORTHERN MAINE

By

Arthur J. Boucot, Andrew Griscom, and John W. Allingham

SCALE 1:250 000

CONTOUR INTERVAL 100 FEET
DATUM IS MEAN SEA LEVEL

1964

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1964—G63032

Geology compiled by Arthur J. Boucot and Andrew Griscom
Aeromagnetic data compiled under the supervision of William J. Dempsey and John W. Allingham

Magnetic data used on this map includes preliminary contouring, which may differ from contours shown on GP Maps published in 1962 or later.

For sale by the U.S. Geological Survey, price 75 cents

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