

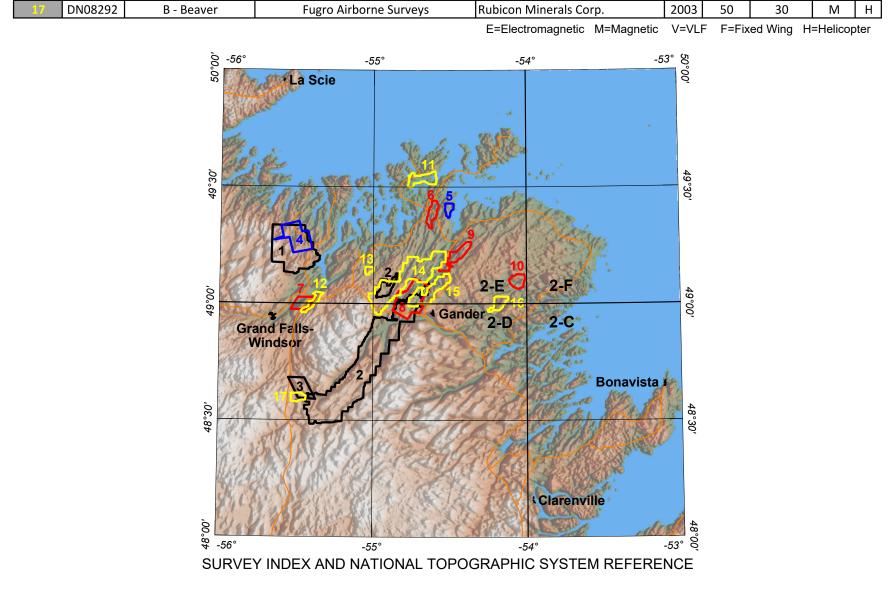
Descriptive Notes

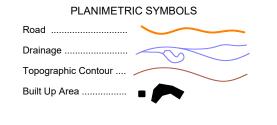
Regional aeromagnetic data used in this compilation were acquired from the Geological Survey of Canada Geophysical Data Repository. Digital data from high-resolution surveys flown by mineral exploration companies were made available through the Geoscience Atlas, Newfoundland and Labrador Department of Industry, Energy and Technology. Results from all high-resolution surveys were levelled to the regional data using the Geosoft Grid Knit utility. The tilt angle equalizes the anomalous effects of magnetic sources at different depths and is useful for mapping shallow basement structures. It is defined as arctan (first vertical derivative/total horizontal derivative) of the magnetic field. Apparent mismatches between survey blocks are a result of differing line spacing, flight altitudes and equipment platforms. For more detailed information regarding this data presentation, please refer to the online open file documentation.

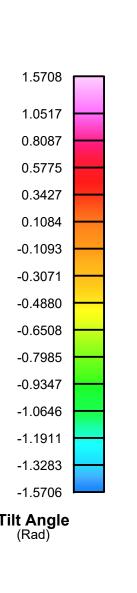
This publication is available for free download through GEOSCAN at <a href="https://geoscan.nrcan.gc.ca">https://geoscan.nrcan.gc.ca</a>. Corresponding digital gridded data can be downloaded from the Geological Survey of Canada's Repository for Geophysical Data at <a href="http://gdr.agg.nrcan.gc.ca">http://gdr.agg.nrcan.gc.ca</a>. For more information, please contact the Geophysical Data Centre, Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0E8. Telephone 613-995-5326, email: <a href="https://gde.nrcan-rncan.gc.ca">lnfogdc-infocdg@nrcan-rncan.gc.ca</a>. Digital data and further information regarding detailed Newfoundland surveys can be accessed or downloaded through the GSNL Geoscience Atlas, at <a href="https://gis.geosurv.gov.nl.ca/">https://gis.geosurv.gov.nl.ca/</a>.

The following table and index map provide locational and source information for the industry surveys that were merged in this project. Individual surveys on the index map can be identified by their corresponding colour and number in the table below.

Index Number	Survey ID	Survey Area	Contractor	Client	Year	Line Spacing (m)	Mag Sensor Height (m)	Survey Type	Platform
				Calibre Mining Corp.; TLC					
1	DN12330	Point Leamington	Fugro Airborne Surveys	Ventures Corp.; Paragon Minerals	2007	200	75	E-M	Н
				Corp.					
2				Palisade Resources; Krinor					
	DN24569	1 -Gander Lake South	CGG / Fugro Airborne Surveys	Resources; New Found Gold	2017	200	35	E-M	Н
				Corp.					
3	DN07724	Rolling	Goldak Exploration Technology Ltd.	Altius Resources Inc.	2002	200	80	М	F
4	DN05435	Lewis Lake	Geoterrex-Dighem	Rubicon Minerals Corp	1999	150	73	E-M	F
5	DN05241	Tims Cove - GBA	Aero Surveys Inc	Copper Hill Resources Inc.	1997	150	30	E-M	Ι
6	DN08784	Duder Lake - Bloc4	Sial Geosciences Inc.	Celtic Minerals Ltd.	1996	100	45	E-M-V	Ι
7	DN08413	Moosehead	Goldak Exploration Technology Ltd.	Altius Resources Inc.	2002	100	80	М	F
8	DN15698	Appleton/JBP Linear	Goldak Airborne Surveys	Northern Skye Res., True Claim Res., KriASK Synd., ASK Prosp., Krinor Res., Canadian Zinc Corp.	2012	100	80	M	F
9	DN18072	Cripple Creek	Geotech Ltd	Capstone Mining Corporation; 0840559 B.C. Limited; Fancey, D.; LeDrew, D.	2012	100/50	52	E-M	Н
10	DN08782	Wing Pond - Bloc2	Sial Geosciences Inc.	Celtic Minerals Ltd.	1996	100	45	E-M-V	Н
11	DN10981	New World Island	AeroQuest Ltd	Rubicon Minerals Corp.	2006	75	30	E-M	Н
12	DN08259	A - Moosehorn	Fugro Airborne Surveys	Rubicon Minerals Corp.	2002	50	30	М	Н
13	DN08262	E - Peyton Satellite	Fugro Airborne Surveys	Rubicon Minerals Corp.	2002	50	30	М	Н
14	DN08606	H - Glenwood Break	Fugro Airborne Surveys	Rubicon Minerals Corp.	2003	75	30	E-M	Н
15	DN08607	I - Gander Area	Fugro Airborne Surveys	Rubicon Minerals Corp.	2003	75	30	E-M	Н
16	DN08350	G - Wing Pond	Fugro Airborne Surveys	Rubicon Minerals Corp.	2003	50	30	М	Н
17	DNOSSOS	D. Dooyer	Fugra Airbarna Curvous	Bubican Minarals Carn	2002	ΕO	20	Ν4	







**Map Series Summary** GSC Open File 8844: Residual total magnetic field GSC Open File 8845: First vertical derivative of the magnetic field GSC Open File 8846: Tilt angle of the magnetic field GSC Open File 8847: Analytic signal of the magnetic field

Airborne Geophysical Data Compilation north-central Newfoundland



Newfoundland and Labrador Department of Industry, Energy and Technology Geological Survey Open File NFLD/3396, Map 2021-11

Recommended citation

MAP LOCATION

Recommended citation

Oneschuk, D. and Kilfoil, G., 2021.

Tilt Angle of the Magnetic Field,
Airborne Geophysical Data Compilation, north-central Newfoundland,
Newfoundland and Labrador, parts of NTS 2-C, D, E and F;
Geological Survey of Canada, Open File 8846;
Newfoundland and Labrador Department of Industry, Energy and Technology,
Geological Survey Open File NFLD/3396, Map 2021-11;
Scale 1:200 000. https://doi.org/10.4095/329229



and suggestions to improve the maps.

NAD83 / UTM zone 21N Universal Transverse Mercator Projection North American Datum 1983

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2021 Hydrography base at the scale of 1:250 000 from Natural Resources Canada, with modifications Topography base at 100 metre intervals