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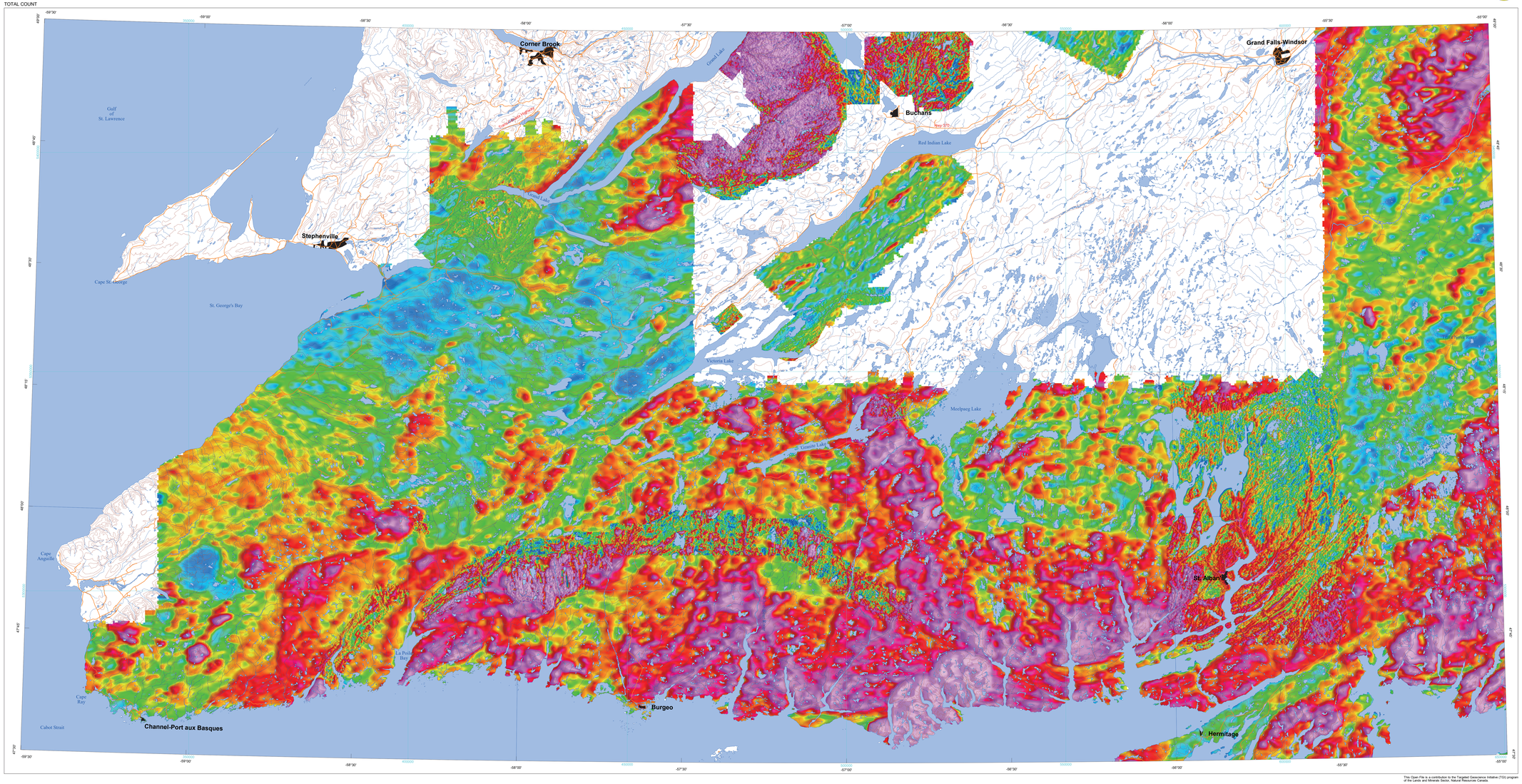
TOTAL COUNT

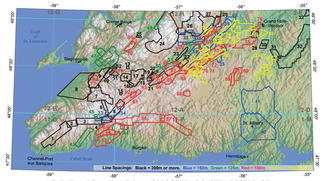


Descriptive Notes

Aeromagnetic data used in this compilation were acquired from the Geological Survey of Canada (GSC) Geophysical Data Repository. Digital data from high-resolution surveys flown by mineral exploration companies and the Geological Survey of Newfoundland and Labrador were made available through the Geoscience Atlas, Newfoundland and Labrador Department of Industry, Energy and Technology. Results from all high-resolution surveys were leveled to each other using the Geosoft Grid Knit utility. 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 https://geoscan.nrcan.gc.ca. Corresponding digital gridded data can be downloaded from the Geological Survey of Canada Geoscience Data Repository for Aeromagnetic Data at http://gdr.agg.nrcan.gc.ca. Digital data and further information regarding detailed Newfoundland surveys can be accessed or downloaded through GSNL's Geoscience Atlas, at https://ga.gov.nl.ca/.

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



SURVEY INDEX AND NATIONAL TOPOGRAPHIC SYSTEM REFERENCE

Index Number	Survey ID	Survey Area	Contractor	Client	Year	Line Spacing (m)	Mag Sensor Height (m)	Survey Type	Platform
1	CN9204	Cape Ray Blocks 1,2,3	Fugro	Cornerstone Capital Resources Inc.	2003	200	100	M	F
2	CN9209	Cape Ray Block 4	Fugro	Cornerstone Capital Resources Inc.	2003	200	100	M	F
3	CN9210	Cape Ray Block 5	Fugro	Cornerstone Capital Resources Inc.	2003	200	100	M	F
4	CN9077	Cape Ray Block 6	Fugro	Cornerstone Capital Resources Inc.	2003	200	100	M	F
5	CN9211	Cape Ray Blocks 7 & 8	Fugro	Cornerstone Capital Resources Inc.	2003	200	100	M	F
6	CN9478	Robinsons River	Aero Surveys	New Island Resources Inc.	1997	200	50	EM	H
7	CN9479	Robinsons River	Aero Surveys	New Island Resources Inc.	1997	200	50	EM	H
8	CN9900	Stephenville / Fat Cat	AeroQuest	Vulcan Minerals Inc.	2003	200	30	M	H
9	CN 13180	Stephenville / Steel Mountain	AeroQuest	Marathon PGM Corp.	2009	200	61	EM	H
10	CN 11185	Tetra Brook Property	AeroQuest	Rambler Resources Corp.	2009	200	61	EM	H
11	CN 16796	Puddle Pond - Barachois Brook Block B	Fugro	Buchans Minerals Corp., Benton Resources Corp., Buchans River Ltd., Quest Inc., R. Quinlan	2009	200	35	EM	H
12	CN 16799	Puddle Pond - Barachois Brook Block A	Fugro	Buchans Minerals Corp., Benton Resources Corp., Buchans River Ltd., Quest Inc., R. Quinlan	2009	200	35	EM	H
13	CN 16763	Puddle Pond - Barachois Brook Block F	Fugro	Buchans Minerals Corp., Benton Resources Corp., Buchans River Ltd., Quest Inc., R. Quinlan	2009	200	35	EM	H
14	CN 16751	Puddle Pond - Barachois Brook Block C	Fugro	Buchans Minerals Corp., Benton Resources Corp., Buchans River Ltd., Quest Inc., R. Quinlan	2009	200	35	EM	H
15	CN 16757	Puddle Pond - Barachois Brook Block D	Fugro	Buchans Minerals Corp., Benton Resources Corp., Buchans River Ltd., Quest Inc., R. Quinlan	2009	200	35	EM	H
16	CN 16819	Puddle Pond - Barachois Brook Block B	Fugro	Buchans Minerals Corp., Benton Resources Corp., Buchans River Ltd., Quest Inc., R. Quinlan	2009	200	35	EM	H
17	CN 14324	Puddle Pond - Long Range	Geotech	Royal Roads Corp., Benton Resources Corp.	2008	200	52	EM	H
18	CN 16752	Puddle Pond - Barachois Brook Block E	Fugro	Buchans Minerals Corp., Benton Resources Corp., Buchans River Ltd., Quest Inc., R. Quinlan	2009	200	35	EM	H
19	CN 17484	Lloyds Lake / Midphase & Horn Mean	Geotech	Puddle Pond Resources Inc., North Range Resources Ltd.	2011	200	55	EM	H
20	CF2020	Lloyds River	Aerodat	Noranda Mining & Exploration Inc.	1995	200	45	E/M-V	H
21	CN3100	Stanley Waters	Aerodat	Noranda Mining & Exploration Inc.	1995	200	45	E/M-V	H
22	CN1302	Harrison's Stack	Aerodat	Noranda Mining & Exploration Inc.	1995	200	45	E/M-V	H
23	CN1302	Red Indian Lake / Healy Bay	AeroQuest	Messina Minerals Inc.	2003	200	51	EM	H
24	CN17484	Lloyds River - Extension	Geotech	Puddle Pond Resources, JNR Resources Inc.	2009	200	55	EM	H
25	CN17190	Black B, Clover Island	Fugro	New Island Minerals Ltd.	2009	200	40	EM	H
26	CN 15609	Topsails Block 3	LTS Geophysics	Altius Resources Inc., JNR Resources Inc.	2009	200	50	M-E	F
27	CN 15608	Topsails Block 1	LTS Geophysics	Altius Resources Inc.,JNR Resources Inc.	2009	200	50	M-E	F
28	CN11109	JJ3 Property	AeroQuest	Benton Resources Corp.	2003	200	40	EM	H
29	CN9481	Twillgate	Fugro	Altius Resources Inc.	2003	200	50	M-V	F
30	CN9250	Paradise Lake	Contrail	Altius Resources Inc.	2002	200	80	M-V	F
31	CN9774	Spring Pond	Contrail	Altius Resources Inc.	2003	200	80	M-V	F
32	CN24999	Gander Lake South	CGG / Fugro	Polaris Metals Inc., Altius Resources, New Found Gold Corp.	2017	200	35	EM	H
33	CN 13678	Forger Pond West	Geotech	Marathon Gold Corp.	2013	150	50	EM	H
34	CN 13660	Forger Pond East	Geotech	Marathon Gold Corp.	2013	150	50	EM	H
35	CN3002	Tally Pond & Duck Pond	Aerodat	Noranda Mining & Exploration Inc.	1996	150	45	E/M-V	H
36	CN08012	Buchans Block C	CGG Geoterrex-Dighem	Billiton Exploration Canada Ltd.	1998	150	73	EM	F
37	CN08011	Buchans Block B	CGG Geoterrex-Dighem	Billiton Exploration Canada Ltd.	1998	150	73	EM	F
38	GSC	Red Indian Line 2 - L	CGG Geoterrex-Dighem	BHP Billiton	1998	150	73	EM	H
39	CN08013	Buchans Block D	CGG Geoterrex-Dighem	Billiton Exploration Canada Ltd.	1998	150	73	EM	F
40	GSC	Red Indian Line 1 - L	CGG Geoterrex-Dighem	Billiton	1998	150	73	EM	H
41	CN08013	Tedlick Brook	Sander Geophysics Ltd	Geological Survey of Newfoundland and Labrador	2015	150	90	M-E-V	F
42	CN09911	St. Alban's	Contrail, Airborne Surveys	Geological Survey of Newfoundland and Labrador	2010	150	125	M/R	F
43	CN-12587	J Pond	AeroQuest	J-Core Uranium Inc.	2007	125	30	E-M-R	H
44	CN-12588	Jet Pond	AeroQuest	J-Core Uranium Inc.	2007	125	30	E-M-R	H
45	CN-12413	Deep Brook	AeroQuest	J-Core Uranium Inc.	2008	125	30	E-M-R	H
46	CN-12415	Jett Pond Ext. 1	AeroQuest	J-Core Uranium Inc.	2008	125	30	E-M-R	H
47	CN-12426	Jett Pond	AeroQuest	Uni Rose Uranium Corp., J-Core Uranium Inc.	2008	125	30	E-M-R	H
48	CN-12510	Jet Pond Ext. 2	AeroQuest	J-Core Uranium Inc.	2008	125	30	E-M-R	H
49	CN-12517	Scanlon Lake	AeroQuest	J-Core Uranium Inc.	2007	125	30	E-M-R	H
50	NB0182	Grifter Point	Dighem	RF Resources Canada Ltd., Noranda Exploration	1995	125	45	E-M-V	H
51	NB0187	Lake Ho-Ho	Aerodat	RF Resources Canada Ltd., Noranda Exploration	1995	125	45	E-M-V	H
52	NB0185.5	Doctors Pond West	Aerodat	RF Resources Canada Ltd., Noranda Exploration	1995	125	45	E/M-V	H
53	CN-14551	Hope Brook	AeroQuest	Rambler Resources Corp., Newfoundland Steel Prospecting	2008	100	40	M	F
54	CN-13209	Goodland	AeroQuest	Commander Resources Ltd.	2008	100	30	E-M-R	H
55	CN-11411	Hermitage West	AeroQuest	Pathfinder Resource Ltd., Commander Resources Ltd.	2006	100	30	E-M-R	H
56	CN-11414	Hermitage Central	AeroQuest	Commander Resources Ltd.	2006	100	30	E-M-R	H
57	CN-11423	Hermitage East	AeroQuest	Pathfinder Resource Ltd., Commander Resources Ltd.	2006	100	30	E-M-R	H
58	CN-11206	Granite Lake (Tiger)	AeroQuest	Terra Mining Ltd.	2005	100	30	E-M-R	H
59	CN9583.1	Great Buroi Lake Block B & A	AeroQuest	Celtic Minerals Ltd.	2007	100	30	EM	H
60	CN9615	Terrenceville Pond	AeroQuest	Celtic Minerals Ltd.	1998	100	30	E-M-V	H
61	CN14441	Stephens Lake	AeroQuest	Metals Creek Resources Corp.	2008	100	50	M	F
62	CN3045	Victoria Lake / Victoria River	Scott Hogg & Associates	Antler Gold Inc., Altius Resources Inc.	2011	100	35	M	H
63	CN11363	Hermitage	AeroQuest	Messina Minerals Inc.	2008	100	30	E-M-R	H
64	CN-16453	Victoria Lake	AeroQuest	Crescent Exploration and Mining Corp., Paragon Minerals Corp.	2011	100	59	E-M	H
65	CN-15843	Valentine Lake	Geophysics GPR International	Richmont Mines Inc., Mountain Lake Resources Inc.	2007	100	30	M/H-V	H
66	CN-12012	Lily Pad	AeroQuest	Frontier Resources Corp.	2006	100	53	EM	H
67	CN-1802	Long Lake	AeroQuest	Messina Minerals Inc.	2008	100	47	E-M	H
68	CN-14164	Gander River	AeroQuest	Paragon Minerals Corp.	2010	100	55	E-M	H
69	CN-14166	South Tally Pond Block 1	AeroQuest	Paragon Minerals Corp.	2011	100	55	E-M	H
70	CN9583	South Tally Pond	McPhar	Altius Resources Inc. / Inundomine Ltd.	2004	100	55	E-M	H
71	CN-13845	South Tally Pond Block 2	AeroQuest	Paragon Minerals Corp.	2011	100	55	E-M	H
72	CN-1054	Tally Pond	Geotech	Buchans River Ltd., Royal Roads Corp.	2008	100	63	M/E	H
73	CN-15044	Duck Pond	Geotech	Hack Limited	2008	100	62	EM	H
74	CN-1081	Sand Pond	Geotech	Buchans River Ltd., Royal Roads Corp.	2008	100	63	EM	H
75	CN3051	Grand Falls / Crystal Lake	Scott Hogg & Associates	Antler Gold Inc., Altius Resources Inc.	2011	100	35	M	H
76	CN09011	Grand Falls - Windsor	Aero Surveys	Copper Hill Resources Inc., Peer Resources Inc.	1997	100	30	EM	H
77	CN-13180	Stephenville / Steel Mountain	AeroQuest	Marathon PGM Corp.	2009	100	61	EM	H
78	CN-7369	Southwest Brook / Nor Corners	Fugro	Cornerstone Mining Corp.; Triple Nine Resources Inc.	2010	100	35	EM	H
79	CN-12245	Crown Island	Geotech	Crew Corp. Corp.	2009	100	65	EM	H
80	CN3164	Stone A, Clover Island	Fugro	New Island Minerals Ltd.	2010	100	61	EM	H
81	CN-2897	Red Indian Lake / Boulder Brook	AeroQuest	Messina Minerals Inc.	2007	100	61	EM	H
82	CN9747	Burgeo Hill	Fugro	Celtic Minerals Ltd.	1998	100	45	E/M-V	H
83	CN20598	Buchans Junction	CGG / Fugro	Xstrata Zinc Canada, Canada Resources Inc.	2012	100	35	EM	H
84	CN20004	Little Joe Gholes	Fugro	Newfoundland Steel Prospecting, Geological Survey of Newfoundland & Labrador	2007	100	40	EM	H
85	CN24310	Wildcat Lake East and West	Scott Hogg & Associates	Antler Gold Inc., Altius Resources Inc.	2012	75	35	M	H
86	CN20036	Lake Douglas	AeroQuest	Paragon Minerals Corp.	2007	75	51	EM	H
87	CN9485	Harrison, Lake & Barren Land	AeroQuest	Paragon Minerals Corp.	2007	75	51	M/E	H
88	CN-18888	South Tally Pond / Lethenbar	AeroQuest	Paragon Minerals Corp.	2011	75	55	EM	H
89	CN20085	South Golden Promise 2	Fugro	Rubicon Minerals Corp.	2008	75	30	EM	H
90	CN24154	Noel Paul's Brook	Scott Hogg & Associates	Antler Gold Inc., Altius Resources Inc.	2012	75	35	M	H
91	CN-17364	Buchans Junction	Geotech	Eagleridge International Ltd., Vinland Resources	2012	52	40	EM	H
92	CN20087	South Golden Promise 3	Fugro	Rubicon Minerals Corp.	2003	75	30	EM	H
93	CN9847	Lawrence Bk/FM	Fugro	Rubicon Minerals Corp.	2003	75	30	EM	H
94	CN20085	Golden Promise West	Fugro	Rubicon Minerals Corp.	2003	75	30	EM	H
95	CN20086	Golden Promise East	Fugro	Rubicon Minerals Corp.	2003	75	30	EM	H
96	CN9873	Golden Star	Fugro	Linear Gold Corp.	2003	75	30	EM	H
97	CN9820	Gill Rattling Brook	Fugro	Rubicon Minerals Corp.	2002	50	30	M	H
98	CN9290	Seven - Miguels	Fugro	Rubicon Minerals Corp.	2003	75	30	EM	H
99	CN9016	Reid	Fugro	Linear Gold Corp.	2003	75	30	EM	H
100	CN-1505	Rattler Lake	AeroQuest	Paragon Minerals Corp.	2006	75	30	EM	H

E=Electromagnetic M=Magnetic R=Radiometric V=VLF F=Fixed Wing H=Helicopter

This Open File is a contribution to the Targeted Geoscience Initiative (TGI) program of the Lands and Minerals Sector, Natural Resources Canada.

CHARACTERIZATION OF A HIGHLY PROSPECTIVE FAULT SYSTEM WITH AIRBORNE GEOPHYSICS DATA WEST-CENTRAL NEWFOUNDLAND

OPEN FILE
DOSSIER PUBLIC
8783
GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA
2021

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Newfoundland and Labrador
Department of Industry, Energy and Technology
Geological Survey Open File
NFLD/3393, Map 2021-08

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Authors: D. Oneschuk and G. Kilfoil

Data compilation and digital cartography by
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Map Series Summary

GSC Open File 8778: Residual total magnetic field
GSC Open File 8777: First vertical derivative of the magnetic field
GSC Open File 8779: Tilt angle of the magnetic field
GSC Open File 8773: Analytic signal of the magnetic field
GSC Open File 8780: Equivalent uranium
GSC Open File 8781: Equivalent uranium
GSC Open File 8782: Equivalent thorium
GSC Open File 8783: Total Count

GEOLOGICAL SURVEY OF CANADA OPEN FILE 8783
NEWFOUNDLAND AND LABRADOR DEPARTMENT OF INDUSTRY, ENERGY AND TECHNOLOGY
GEOLOGICAL SURVEY OPEN FILE NFLD/3393, MAP 2021-08

TOTAL COUNT

CHARACTERIZATION OF A HIGHLY PROSPECTIVE FAULT SYSTEM WITH AIRBORNE GEOPHYSICS DATA WEST-CENTRAL NEWFOUNDLAND

NEWFOUNDLAND AND LABRADOR
NTS 12-A and parts of NTS 1-M, 2-D, 11-O, P and 12-B

Scale 1:250 000

NAD83(CSRS)
6 Degree UTM Zone
Universal Transverse Mercator Projection
North American Datum 1983

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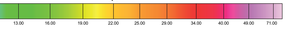
Hydrography base at the scale of 1:250 000 from Natural Resources Canada, with modifications
Topography base at 100 metre intervals



PLANIMETRIC SYMBOLS
Road
Drainage
Topographic Contour
Built Up Area

MAP LOCATION

Canada
Newfoundland Labrador