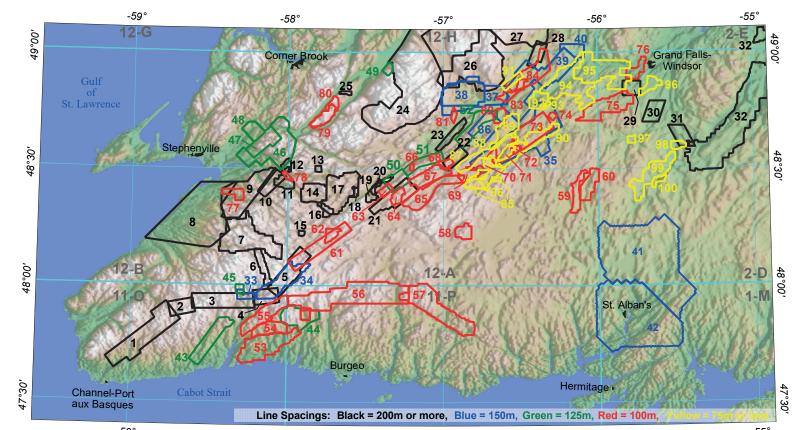




Descriptive Notes Regional aeromagnetic data used in this compilation were acquired from the Geological Survey of Canada (GSC) Geophysical Data Repository. Digital data from high-resolution surveys flown by mineral exploration companies and the Geological Survey of Newfoundland and Labrador were made available through the Geoscience Atlas, Newfoundland and Labrador Department of Industry, Energy and Technology and the Geological Survey of Canada (GSC) Geophysical Data Repository. 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 https://geoscan.nrcan.gc.ca. Corresponding digital gridded data can be downloaded from the Geological Survey of Canada Data Repository for Aeromagnetic Data at http://gdr.agg.nrcan.gc.ca. Corresponding digital gridded data can be downloaded from the Geological Survey of Canada 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://gis.geosurv.gov.nl.ca/.

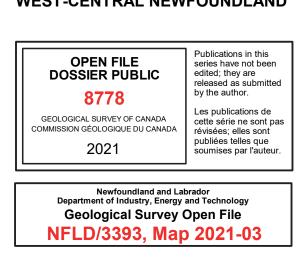
The following index map and table provide locational and source information for the industry surveys that were merged in this project. Individual surveys on the index map can be identified by their corresponding colour and number in the table below.



-59° *-58*° -57° SURVEY INDEX AND NATIONAL TOPOGRAPHIC SYSTEM REFERENCE

| Index Number 1 | Survey ID | Survey Area | Contractor | Client Cornerstone Capital Resources Inc. | Year 2003 | Line Spacing (m) 200 | Mag Sensor Height (m) 100 | Survey Type M | Platform F |
|----------------------|--------------------|---|----------------------------------|---|----------------------|-------------------------------|---------------------------------------|---------------------|------------|
| 2 | DN09269 DN09270 | Cape Ray Block 4 Cape Ray Block 5 | Fugro Fugro | Cornerstone Capital Resources Inc. | 2003 | 200 200 200 | 100 | M | F |
| 4 | DN09272 | Cape Ray Block 6 | Fugro | Cornerstone Capital Resources Inc. | 2003 | 200 | 100 | М | F |
| 5 | DN09273 DN04730 | Cape Ray Blocks 7,8,9 Prospectors Pond | Fugro Aero Surveys | Cornerstone Capital Resources Inc. New Island Resources Inc. | 2003 1997 | 200 220 | 100 30 | M E-M | F H |
| 7 8 | DN04729 DN08003 | Robinsons River Stephenville / Flat Bay | Aero Surveys AeroQuest | New Island Resources Inc. Vulcan Minerals Inc. | 1997 2006 | 220 200 | 30 30 | E-M M | H H |
| 9 10 | DN13780 DN11185 | Stephenville / Steel Mountain Nita's Brook Property | AeroQuest AeroQuest | Marathon PGM Corp. Benton Resources Corp. | 2008 2005 | 250 200 | 51 47 | E-M E-M | H H |
| 11 | DN16756 | Puddle Pond - Barachois Brook Block E | Fugro | Buchans Minerals Corp.; Benton Resources Corp.; Buchans River Ltd.; Quest Inc.; R. Quinlan | 2009 | 200 | 35 | E-M | н |
| 12 | DN16755 | Puddle Pond - Barachois Brook Block G | Fugro | Buchans Minerals Corp.; Benton Resources Corp.; Buchans River Ltd.; Quest Inc.; R. Quinlan | 2009 | 200 | 35 | E-M | н |
| 13 | DN16753 | Puddle Pond - Barachois Brook | Fugro | Buchans Minerals Corp.; Benton Resources Corp.; | 2009 | 200 | 35 | E-M | н |
| 14 | DN16751 | Block F Puddle Pond - Barachois Brook | Fugro | Buchans River Ltd.; Quest Inc.; R. Quinlan Buchans Minerals Corp.; Benton Resources Corp.; | 2009 | 200 | 35 | E-M | н |
| | | Block C Puddle Pond - Barachois Brook | | Buchans River Ltd.; Quest Inc.; R. Quinlan Buchans Minerals Corp.; Benton Resources Corp.; | | | | | |
| 15 | DN16757 | Block D Puddle Pond - Barachois Brook | Fugro | Buchans River Ltd.; Quest Inc.; R. Quinlan Buchans Minerals Corp.; Benton Resources Corp.; | 2009 | 200 | 35 | E-M | H |
| 16 | DN16519 | Block B | Fugro | Buchans River Ltd.; Quest Inc.; R. Quinlan | 2009 | 200 | 35 | E-M | Н |
| <u>17</u> 18 | DN14324 DN16752 | Puddle Pond / Long Range Puddle Pond - Barachois Brook | Geotech Fugro | Royal Roads Corp.; Benton Resources Corp. Buchans Minerals Corp.; Benton Resources Corp.; | 2008 2009 | 200 200 | 62 35 | E-M E-M | н н |
| 19 | DN17484 | Block A Lloyds Lake / MolyPeak & Horn- | Geotech | Buchans River Ltd.; Quest Inc.; R. Quinlan Puddle Pond Resources Inc.; North Range | 2011 | 200 | 69 | E-M | н |
| 20 | DN01003 | Mesh Lloyds River | Aerodat | Resources Ltd. Noranda Mining & Exploration Inc. | 1995 | 200 | 45 | E-M-V | н |
| 21 22 | DN01001 DN01002 | Stanley Waters Harmsworth Steady | Aerodat Aerodat | Noranda Mining & Exploration Inc. Noranda Mining & Exploration Inc. | 1995 1995 | 200 200 | 45 45 | E-M-V E-M-V | H H |
| 23 | DN13692 | Red Indian Lake / Healy Bay | AeroQuest | Messina Minerals Inc. | 2007 | 200 200 200 | 51 50 | E-M | H |
| 24 25 | DN14044 DN07590 | Topsails Block 2 Block B, Glover Island | UTS Geophysics Fugro | Altius Resources Inc.; JNR Resources Inc. New Island Minerals Ltd. | 2008 2000 | 200 | 40 | M-R E-M | н |
| 26 27 | DN15609 DN15629 | Topsails Block 3 Topsails Block 1 | UTS Geophysics UTS Geophysics | Altius Resources Inc.; JNR Resources Inc. Altius Resources Inc.; JNR Resources Inc. | 2008 2008 | 200 200 | 50 50 | M-R M-R | F F |
| 28 29 | DN11109 DN08867 | LJG Property Twilight | AeroQuest Goldak | Benton Resources Corp. Altius Resources Inc. | 2005 2002 | 200 200 | 47 80 | E-M M-V | H |
| <u>30</u> 31 | DN08250 DN07724 | Paradise Lake Rolling Pond | Goldak Goldak Goldak | Altius Resources Inc. Altius Resources Inc. | 2002 | 200 200 200 | 80 80 | M-V M-V | F |
| 31 | DN07724 DN24569 | Gander Lake South | CGG / Fugro | Palisade Resources; Krinor Resources; New Found | 2002 | 200 | 35 | E-M | н Н |
| 33 | DN17878 | Finger Pond West | Geotech | Gold Corp. Marathon Gold Corp. | 2012 | 150 | 50 | E-M | н |
| 34 35 | DN17860 DN02032 | Finger Pond East Tally Pond & Duck Pond | Geotech Aerodat | Marathon Gold Corp. Noranda Mining & Exploration Inc. | 2012 1988 | 150 150 | 50 45 | E-M E-M-V | H H |
| 36 | DN08012 | Buchans Block C | CGG Geoterrex- Dighem | Billiton Exploration Canada Ltd. | 1998 | 150 | 73 | E-M | F |
| 37 | DN08011 | Buchans Block B | CGG Geoterrex- Dighem | Billiton Exploration Canada Ltd. | 1998 | 150 | 73 | E-M | F |
| 38 | GSC | Red Indian Line II - L | CGG Geoterrex- | BHP Billiton | 1998 | 150 | 73 | E-M | н |
| 39 | DN08013 | Buchans Block D | Dighem CGG Geoterrex- | Billiton Exploration Canada Ltd. | 1998 | 150 | 73 | E-M | F |
| | | | Dighem CGG Geoterrex- | · · · · · · · · · · · · · · · · · · · | | | | | |
| 40 | GSC | Red Indian Line II - I | Dighem Sander | Billiton | 1998 | 150 | 73 | E-M | н |
| 41 | DN09913 | Twillick Brook | Geophysics Ltd. | Geological Survey of Newfoundland and Labrador | 2019 | 150 | 90 | M-R-V | F |
| 42 | DN09911 | St. Alban's | Goldak Airborne Surveys | Geological Survey of Newfoundland and Labrador | 2015 | 150 | 125 | M-R | F |
| 43 44 | DN12507 DN12421 | La Poile Peter Snout | AeroQuest AeroQuest | UCore Uranium Inc. UCore Uranium Inc. | 2007 2007 | 125 125 | 30 30 | E-M-R E-M-R | H H |
| 45 46 | DN12513 DN12145 | Deep Brook Lost Pond Ext. 1 | AeroQuest AeroQuest | UCore Uranium Inc. UCore Uranium Inc. | 2007 2006 | 125 125 | 30 30 | E-M-R E-M-R | H H |
| 47 48 | DN12128 DN12510 | Lost Pond Lost Pond Ext. 2 | AeroQuest AeroQuest | Hot Rock Uranium Corp.; UCore Uranium Inc. UCore Uranium Inc. | 2006 2006 | 125 125 | 30 30 | E-M-R E-M-R | H H |
| 49 | DN12512 | Grommit Lake | AeroQuest | UCore Uranium Inc. | 2007 | 125 | 30 | E-M-R | Н |
| 50 51 | N00192 N00197,8 | Glitter Pond Tulks Hill | Dighem Aerodat | BP Resources Canada Ltd.; Noranda Exploration BP Resources Canada Ltd.; Noranda Exploration | 1990 1990 | 125 125 | 48 48 | E-M-V E-M-V | H H |
| 52 | N00195,6 | Bobby's Pond West | Aerodat | BP Resources Canada Ltd.; Noranda Exploration Quest Inc.; Quinlan Prospecting; Stares Prospecting; | 1990 | 125 | 48 | E-M-V | H |
| 53 54 | DN14551 DN12359 | Hope Brook Strickland | AeroQuest AeroQuest | Benton Resources Corp. Commander Resources Ltd. | 2008 2006 | 100 100 | 40 30 | M E-M-R | F H |
| 55 | DN11417 | Hermitage West | AeroQuest | Pathfinder Resources Ltd.; Commander Resources | 2006 | 100 | 30 | E-M-R | н |
| 56 | DN11414 | Hermitage Central | AeroQuest | Ltd. Commander Resources Ltd. | 2006 | 100 | 30 | E-M-R | н |
| 57 | DN11423 | Hermitage East | AeroQuest | Pathfinder Resources Ltd.; Commander Resources Ltd. | 2006 | 100 | 30 | E-M-R | н |
| 58 59 | | Granite Lake Project Great Burnt Lake Block B & A | AeroQuest AeroQuest | Playfair Mining Ltd. Celtic Minerals Ltd. | 2006 2007 | 100 100 | 30 30 | E-M-R E-M | H H |
| 60 61 | DN08783 DN14441 | Pipestone Pond Staghorn Lake | Sial AeroQuest | Celtic Minerals Ltd. Metals Creek Resources Corp. | 1996 2009 | 100 100 | 45 50 | E-M-V M | H |
| 62 | DN24339 | Victoria Lake / Victoria River | Scott Hogg & | Antler Gold Inc.; Altius Resources Inc | 2003 | 100 | 35 | M | н Н |
| 63 | DN11925 | Boomerang | Associates AeroQuest | Messina Minerals Inc. | 2006 | 100 | 30 | E-M-R | н |
| 64 | DN18453 | Victoria Lake | AeroQuest | Crosshair Exploration and Mining Corp.; Paragon Minerals Corp. | 2011 | 100 | 59 | E-M | н |
| 65 | DN10943 | Valentine Lake | Geophysics GPR International | Richmont Mines Inc.; Mountain Lake Resources Inc. | 2007 | 100 | 30 | M-R-V | н |
| 66 67 | DN10212 DN11802 | Tulks Hill Long Lake | AeroQuest AeroQuest | Prominex Resources Corp. Messina Minerals Inc. | 2006 2006 | 100 100 | 51 47 | M-E E-M | H |
| 68 | DN12569 | Costigan Lake | AeroQuest | Messina Minerals Inc. | 2007 | 100 | 51 | E-M | Н |
| 69 70 | DN14158 DN08183 | South Tally Pond Block 1 South Tally Pond | AeroQuest McPhar | Paragon Minerals Corp. Altius Resources Inc.; Thundermin Ltd. | 2011 2004 | 100 100 | 59 65 | E-M E-M | H H |
| 71 72 | DN13583 DN10541 | South Tally Pond Block 2 Tally Pond | AeroQuest Geotech | Paragon Minerals Corp. Buchans River Ltd.; Royal Roads Corp. | 2011 2008 | 100 100 | 59 63 | E-M M-E | H H |
| 73 74 | DN10044 DN11681 | Duck Pond Burnt Pond | Geotech Geotech | Teck Limited Buchans River Ltd.; Royal Roads Corp. | 2008 2008 | 100 | 62 63 | M-E E-M | H |
| 74 | DN11681 | Grand Falls / Crystal Lake | Scott Hogg & | Antler Gold Inc.; Altius Resources Inc. | 2008 | 100 | 35 | E-IVI M | н |
| 76 | DN05015 | Grand Falls - Windsor | Associates Aero Surveys | Copper Hill Resources Inc.; Pearl Resources Inc. | 1997 | 100 | 30 | E-M | н |
| 77 | DN13780 | Stephenville / Steel Mountain | AeroQuest | Marathon PGM Corp. Four Corners Mining Corp.; Triple Nine Resources | 2008 | 100 | 51 | E-M | н |
| 78 | DN17369 | Southwest Brook / Four Corners | Fugro | Ltd. | 2010 | 100 | 35 | E-M | H |
| 79 80 | DN12245 DN07584 | Glover Island Block A, Glover Island | Geotech Fugro | Crew Gold Corp. New Island Minerals Ltd. | 2008 2000 | 100 100 | 68 40 | E-M E-M | H H |
| 81 82 | DN12697 DN08787 | Red Indian Lake / Skidder Brook Hungry Hill | AeroQuest Sial | Messina Minerals Inc. Celtic Minerals Ltd. | 2007 1996 | 100 100 | 51 45 | E-M E-M-V | H H |
| 83 | DN20398 | Buchans Junction | CGG / Fugro | Xstrata Zinc Canada; Canstar Resources Inc. Geological Survey of Canada; Geological Survey of | 2012 | 100 | 35 | E-M | н |
| 84 | DN09904 | Little Joe Glodes | Fugro Scott Hogg & | Newfoundland & Labrador | 2007 | 100 | 40 | М | Н |
| 85 | DN24310 | Wilding Lake East and West | Associates | Antler Gold Inc.; Altius Resources Inc. | 2017 | 75 | 35 | M | Н |
| 86 87 | DN09336 DN10465 | Lake Douglas Harpoon Lake & Barren Lake | AeroQuest AeroQuest | Paragon Minerals Corp. Paragon Minerals Corp. | 2007 2007 | 75 75 | 51 51 | E-M M-E | H H |
| 88 89 | DN18888 DN03088 | South Tally Pond / Lemarchant South Golden Promise 2 | AeroQuest Fugro | Paragon Minerals Corp. Rubicon Minerals Corp. | 201 1 2003 | 75 75 | 59 30 | E-M E-M | H H |
| 90 | DN24154 | Noel Paul's Brook | Scott Hogg & Associates | Antler Gold Inc.; Altius Resources Inc. | 2017 | 75 | 35 | м | н |
| 91 92 | DN17364 | Buchans Junction | Geotech | Eagleridge International Ltd.; Vinland Resources | 2012 | 50 | 49 | E-M | Н |
| 92 93 | DN03087 DN08947 | South Golden Promise 1 Licence 8947M | Fugro Fugro | Rubicon Minerals Corp. Rubicon Minerals Corp. | 2003 2003 | 75 75 | 30 30 | E-M E-M | H |
| 94 95 | DN03080 DN03079 | Golden Promise West Golden Promise East | Fugro Fugro | Rubicon Minerals Corp. Rubicon Minerals Corp. | 2003 2003 | 75 75 | 30 30 | E-M E-M | H H |
| 96 | DN09215 DN08291 | Golden Star SW Rattling Brook | Fugro Fugro | Linear Gold Corp. Rubicon Minerals Corp. | 2003 2002 | 75 50 | 30 30 | E-M M | H |
| 97 | | - | | Rubicon Minerals Corp. | | 50 | 30 | M | н |
| 97 98 99 | DN08292 DN09216 | Beaver - Miguels Reid | Fugro Fugro | Linear Gold Corp. | 2003 2003 | 75 | 30 | E-M | н |





Recommended citation

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Oneschuk, D. and Kilfoil, G., 2021. Tilt Angle of the Magnetic Field, 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; Geological Survey of Canada, Open File 8778; Newfoundland and Labrador Department of Industry, Energy and Technology, Geological Survey Open File NFLD/3393, Map 2021-03; Scale 1:250 000. https://doi.org/10.4095/328204