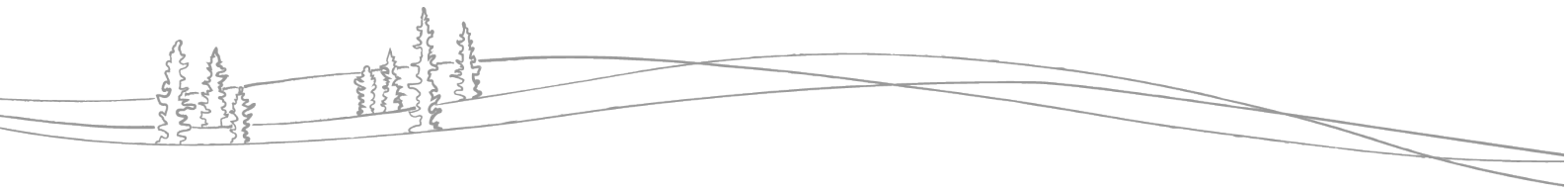


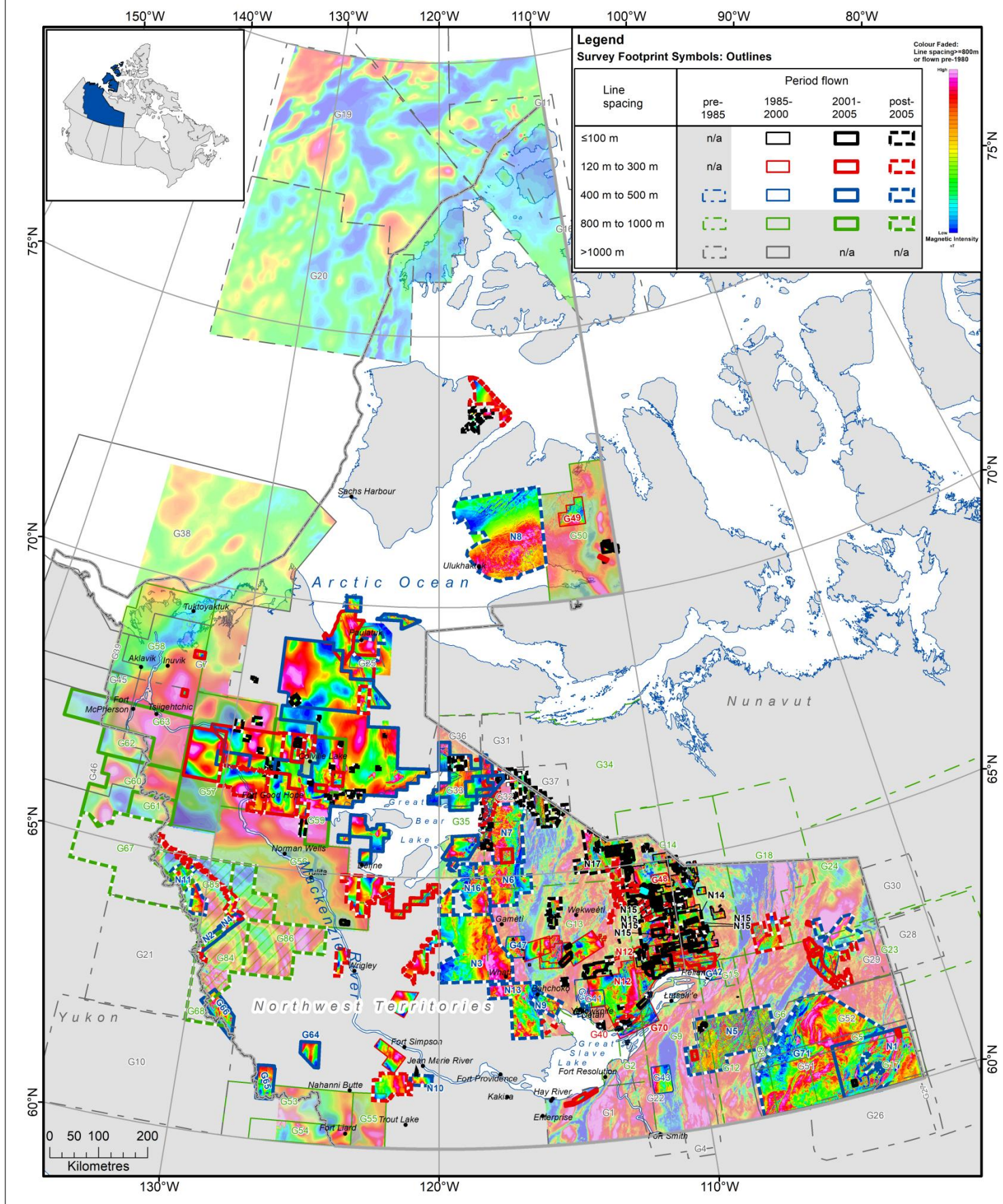


Government of
Northwest Territories

Northwest Territories Geological Survey Northwest Territories Airborne Geophysics



Updated: November 2025



Northwest Territories Geological Survey and Industry airborne electromagnetic datasets can be downloaded using the NTGS WebApp: The [References Search](#) tool allows for the download of multiple Assessment Reports at once, or of selected files within an Assessment Report.

Map Label	Pub-lisher	Publication Series and Number	Line Spacing	Year Flown	Flying Height	Citation
N1	NTGS	NWT Open File 2004-04	400	2004	150	C.S. Lord Northern Geoscience Centre and the Geological Survey of Canada, 2004. Aeromagnetic Survey, Snowbird-Wholdaia Lakes Area, Northwest Territories, 065D/075A (E half). Northwest Territories Geological Survey, NWT Open File 2004-04; 2 maps (1:250,000), 24 maps (1:50,000), 59p report & digital data.
N2	NTGS &GSC	NTGS Contributions 0015-0020	400	2005	135	Carson, J.M., Dumont, R., Potvin, J., Shives, R.B.K., Harvey, B., and Fisher, B. 2006. Geophysical Series - NTS 105-O and 105 P - Sekwi Mountain, Northwest Territories. Northwest Territories Geological Survey Contributions 0015-0020; 6 maps, digital data from ntgs@gov.nt.ca .
N3	NTGS	NWT Open File 2006-04	400	2006	150	NTGO, 2006. Aeromagnetic Survey, Lac la Martre Area, Northwest Territories, parts of 85N, 85M, 86C, 86D. Northwest Territories Geological Survey, NWT Open File 2006-04; 8 maps (1:100,000), 38p report & digital data.
N4	NTGS	NWT Open File 2006-05	400	2005	100	NTGO, 2006. Aeromagnetic and Gamma Ray Spectrometric Survey, Canol Block, Sekwi Mountain Area, Northwest Territories, parts of 105P and 106A. Northwest Territories Geological Survey, NWT Open File 2006-05; 10 maps (1:100,000), 51p report & digital data.
N5	NTGS	NWT Open File 2007-04	400	2007	150	NTGO, 2007. High resolution total field and gradient aeromagnetic survey of the Nonacho Basin and Environs, Northwest Territories, parts of NTS 75E, 75F and 75G. Northwest Territories Geological Survey, NWT Open File 2007-04; 8 maps (1:100,000), 49p report & digital data.
N6	NTGS	NWT Open File 2008-02	400	2007	125	NTGO, 2008. Airborne Magnetic and Gamma-ray Spectrometric Survey of the Southwestern Wopmay Orogen, Northwest Territories, Parts of NTS 086C, 086E and 086F. Northwest Territories Geological Survey, NWT Open File 2008-02; 10 maps (1:250,000), 60 maps (1:50,000) & digital data.
N7	NTGS	NWT Open File 2009-05	400	2009	125	Harvey, B.J.A., Kiss, F. and Carson, J.M., 2009. Geophysical Series, NTS 86 K/7, 86 K/8 and part of 86 J/5, Airborne Geophysical Survey of the Northern Great Bear Magmatic Zone, Northwest Territories. Northwest Territories Geological Survey, NWT Open File 2009-05; 10 maps (1:250,000), 60 maps (1:50,000), 58p report & digital data.
N8	NTGS	NWT Open File 2010-06	400	2010	150	Kiss, F. and Oneschuk, D., 2010. Minto Inlier Aeromagnetic Survey, Victoria Island, Northwest Territories, parts of NTS 87 E, F, G, H and NTS 88 A, B. Northwest Territories Geological Survey, NWT Open File 2010-06; 12 maps (1:100,000) & digital data.
N9	NTGS	NWT Open File 2011-04	500	2010	125	NTGO, 2011. Aeromagnetic Survey of the North Arm Area, Northwest Territories, Parts of 086J and 086K. Northwest Territories Geological Survey, NWT Open File 2011-04; 2 maps (1:100,000), 42p report & digital data.
N10	NTGS	NWT Open File 2012-02	400	2012	125	NTGO, 2012. Aeromagnetic Survey, Jean Marie River Area, Northwest Territories, Part of 95H; Northwest Territories Geological Survey, NWT Open File 2012-02; 2 maps (1:50,000), 26p report & digital data.
N11	NTGS	NWT Open File 2012-15	500	2011	120	Fortin, R., Coyle, M., Fischer, B.J., Carson, J. and Dumont, R., 2012. Airborne geophysical survey of the Source Peaks area, Northwest Territories NTS 106 B Bonnet Plume Lake and parts of 105 O, 105 P, and 106 A; Northwest Territories Geological Survey, NWT Open File 2012-15; 10 maps (1:250,000), 50 maps (1:50,000), 105p report & digital data.
N12	NTGS	NWT Open File 2015-02	200	1998	120	Fischer, B.J., Covello, L., and Mirza, A., 2015. Historical aeromagnetic surveys over the north shore of the East Arm, Great Slave Lake, NWT; Northwest Territories Geological Survey, NWT Open File 2015-02; 12p report & digital data.
N13	NTGS	NWT Open File 2016-03	500	2016	150	Mirza, A.M., 2016. High resolution total field and gradient aeromagnetic survey of the Chan Lake area, Northwest Territories, NTS 085K. Northwest Territories Geological Survey, NWT Open File 2016-03; 15 maps (1:250,000), 38p report & digital data.
N14	NTGS	NWT Open Report 2017-014	100	2017	100	Mirza, A.M., and Elliott, B., 2017. Aeromagnetic survey of the central Slave craton area, Northwest Territories, parts of NTS 75M and N; Northwest Territories Geological Survey. NWT Open Report 2017-014, 44 pages with 10 maps and digital data.
N15	NTGS	NWT Open Report 2017-015	75	2017	25	Mirza, A.M., and Elliott, B., 2017. Airborne electromagnetic and horizontal-gradient magnetic survey of the central Slave craton area, Northwest Territories, parts of NTS 75M, N, and 76D; Northwest Territories Geological Survey. NWT Open Report 2017-015, 121 pages with 54 maps and digital data.
N16	NTGS	NWT Open File 2011-03	400	2011	125	Kiss, F. and Coyle, M., 2010. Hottah Lake Aeromagnetic Survey, Northwest Territories, Parts of NTS 86 C/5, 12, 86 D/5, 6, 7, 8, 9, 10, 11, 12; BLOCK A, Sheet 1 of 2, 1:100 000 scale, Northwest Territories Geoscience Office, NWT Open File 2011-03; 4 maps and digital data.
N17	NTGS	NWT Open Report 2019-003	100	2019	60	Mirza, A.M., and Elliott, B., 2019. Aeromagnetic survey of the Itchen Lake and Point Lake area, Northwest Territories, parts of NTS 086H, 086A, and 076E; Northwest Territories Geological Survey, NWT Open Report 2019-003, 48 pages with 5 map sheets and digital data.

Other government aeromagnetic datasets can be downloaded from the Canadian Aeromagnetic Data Base, Geological Survey of Canada. Line spacing and height are in metres. Height is that of the aircraft.

Map Label	Name of Survey in GSC Database	Line Spacing	Year Flown	Flying Height	Map Label	Name of Survey in GSC Database	Line Spacing	Year Flown	Flying Height	Map Label	Name of Survey in GSC Database	Line Spacing	Year Flown	Flying Height
G1	Northwest Territories #26	1609	1950	305	G24	Northwest Territories #04	805	1972	305	G54	BC/Yukon/NWT II area B2	800	1996	1525
G2	Northwest Territories #25	805	1950	305	G25	Darnley Bay (Amundsen Gulf)	2000	1973	610	G55	BC/Yukon/NWT II area B3	800	1996	850
G3	Northwest Territories #24	402	1950	152	G26	Fond du Lac (East)	5000	1974	120	G56	Mackenzie Corridor I: Norman Wells	800	1999	200
G4	Northwest Territories #32 OVERLAP	1829	1953	152	G27	Kasmere Lake	5000	1975	120	G57	Mackenzie Corridor II: Fort Good Hope	800	2000	200
G5	Northwest Territories #11	805	1954	305	G28	65K	5000	1976	120	G58	Mackenzie Corridor III: Mackenzie Delta	800	2000	200
G6	Northwest Territories #16	805	1955	305	G29	65L	5000	1976	120	G59	Mackenzie Corridor IV: Colville Lake	800	2001	200
G7	Mackenzie River Delta	1500	1959	762	G30	65N	5000	1976	120	G60	Mackenzie V: Bonnet Plume and Peel Plateau	800	2002	200
G8	Northwest Territories #17	805	1960	305	G31	Dismal Lakes	5000	1976	120	G61	Mackenzie VI: Peel Plateau area A	800	2003	200
G9	Northwest Territories #20	805	1960	305	G32	Sloan River	5000	1976	120	G62	Mackenzie VI: Peel Plateau area B	800	2003	200
G10	Yukon - 61-43	1207	1961	305	G33	Takatcho River	5000	1976	120	G63	Mackenzie VII: Fort McPherson	800	2003	200
G11	Northwest Territories - 62-37: Prince Gustaf Adolf Sea	1609	1962	305	G34	Northwest Territories #21	805	1977	305	G64	Nahanni, area A - Prairie Creek	500	2004	135
G12	Northwest Territories #19	805	1962	305	G35	Northwest Territories #22	805	1977	305	G65	Nahanni, area B - Caribou River	500	2005	135
G13	Northwest Territories #23	805	1962	305	G36	Bebensee Lake	5000	1978	120	G66	Nahanni, area C - Flat River	500	2005	135
G14	Northwest Territories #15	805	1963	305	G37	Hepburn Lake	5000	1978	120	G67	Wernecke Mountains	800	2007	250
G15	Northwest Territories #18	805	1963	305	G38	Beaufort Sea	2000	1985	305	G68	Little Nahanni	800	2010	250
G16	Northwest Territories - 34-9: Melville Is. / Arctic Ocean	3218	1964	305	G39	Beaufort Sea (Yukon)	2000	1985	1829	G69	Hottah Lake	400	2011	125
G17	Northwest Territories #08-3	805	1964	305	G40	Blachford Lake complex	250	1988	120	G70	Blachford Lake MAG	250	2011	100
G18	Northwest Territories #14	805	1966	305	G41	Prosperous Lake	500	1988	120	G71	South Rae Craton	400	2012	125
G19	Northwest Territories - 4023: Prince Patrick Island / Arctic Ocean	6437	1967	305	G42	Fort Reliance	500	1988	120	G72	Keele River	800	2018	250
G20	Northwest Territories - 68-3: M'Clure Strait / Arctic Ocean	2414	1968	305	G43	Rutledge River	500	1988	120	G73	Mountain River	800	2018	250
G21	Yukon - 177 C	1207	1968	305	G44	N. Yukon Area 3f	3000	1989	2134	G74	Redstone River	800	2018	250
G22	Fort Smith	5000	1970	120	G45	Porcupine River	3000	1990	2134					
G23	Northwest Territories #10	805	1970	305	G46	Mazenod Lake	500	1993	120					
					G47	Paul Lake	250	1993	120					
					G48	Monopros: Victoria Island (I)	250	1994	100					
					G49	Victoria Island I	800	1995	200					
					G50	Stony Rapids (A)	5000	1996	120					
					G51	Stony Rapids (B)	5000	1996	120					
					G52	BC/Yukon/NWT II area B1	800	1996	2000					

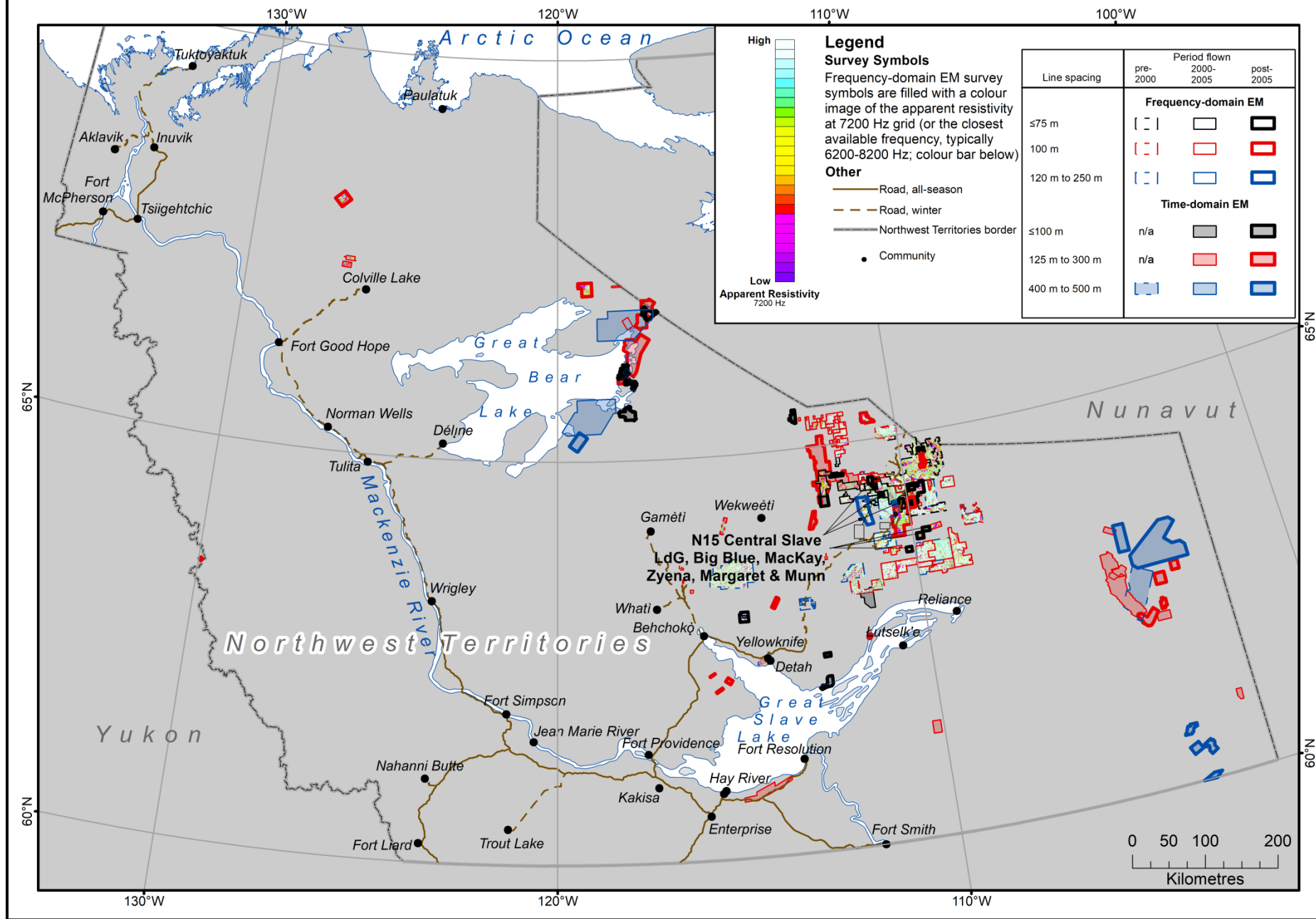


Airborne Electromagnetic Data, Northwest Territories, Canada

Government of
Northwest Territories

NWT Open Report 2019-018

A.M. Mirza and B.J. Fischer



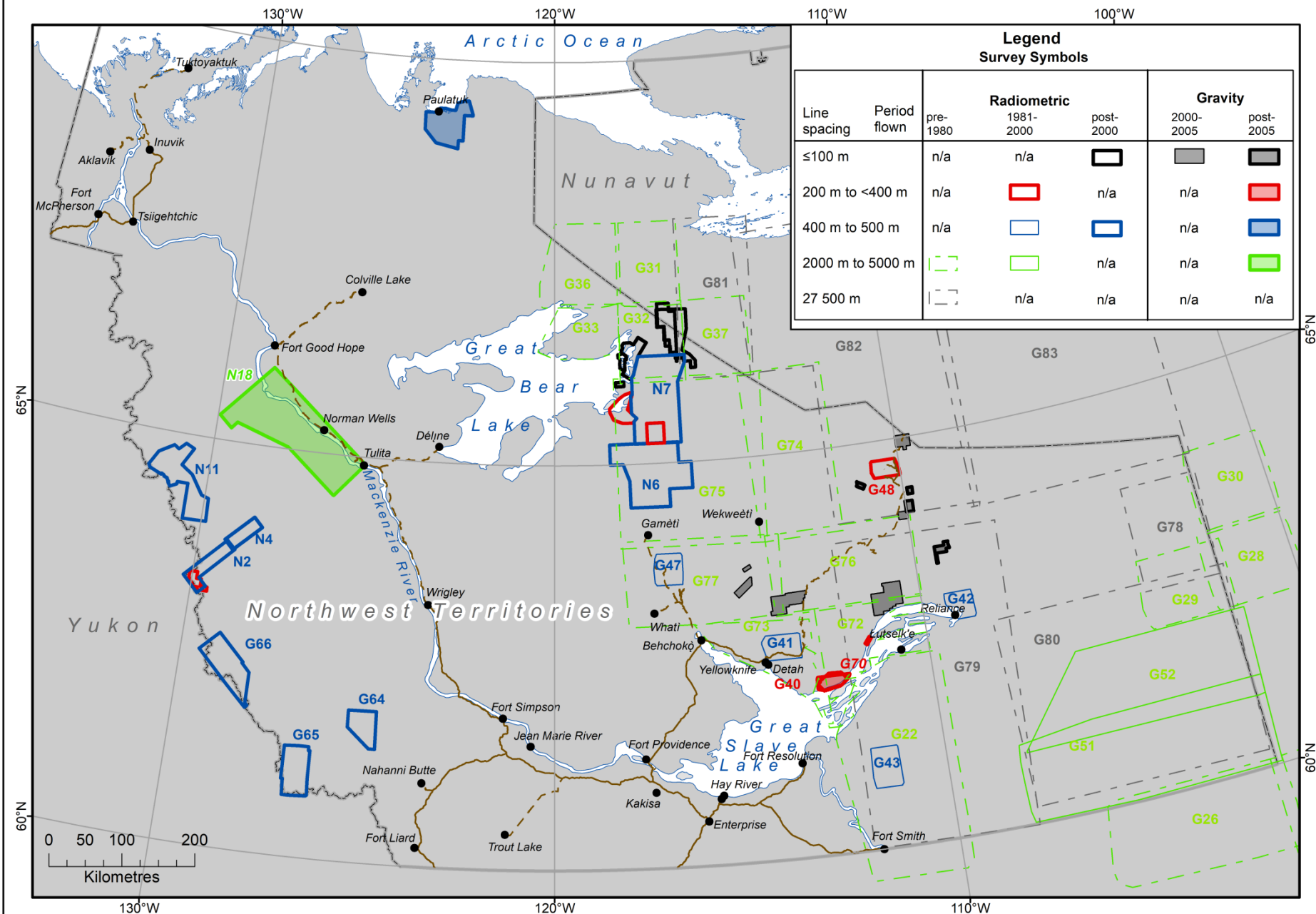


Airborne Radiometric and Gravity data, Northwest Territories, Canada

Government of
Northwest Territories

NWT Open Report 2019-018

A.M. Mirza and B.J. Fischer



Map Label	Pub-lisher	Publication Series and Number	Line Spacing	Year Flown	Flying Height	Citation
N2	NTGS &GSC	NTGS Contributions 0015-0020	400	2005	135	Carson, J.M., Dumont, R., Potvin, J., Shives, R.B.K., Harvey, B., and Fisher, B. 2006. Geophysical Series - NTS 105-O and 105 P - Sekwi Mountain, Northwest Territories. Northwest Territories Geological Survey Contributions 0015-0020; 6 maps, digital data from ntgs@gov.nt.ca.
N4	NTGS	NWT Open File 2006-05	400	2005	100	NTGO, 2006. Aeromagnetic and Gamma Ray Spectrometric Survey, Canol Block, Sekwi Mountain Area, Northwest Territories, parts of 105P and 106A. Northwest Territories Geological Survey, NWT Open File 2006-05; 10 maps (1:100,000), 51p report & digital data.
N6	NTGS	NWT Open File 2008-02	400	2007	125	NTGO, 2008. Airborne Magnetic and Gamma-ray Spectrometric Survey of the Southwestern Wopmay Orogen, Northwest Territories, Parts of NTS 086C, 086E and 086F. Northwest Territories Geological Survey, NWT Open File 2008-02; 10 maps (1:250,000), 60 maps (1:50,000) & digital data.
N7	NTGS	NWT Open File 2009-05	400	2009	125	Harvey, B.J.A., Kiss, F. and Carson, J.M., 2009. Geophysical Series, NTS 86 K/7, 86 K/8 and part of 86 J/5, Airborne Geophysical Survey of the Northern Great Bear Magmatic Zone, Northwest Territories. Northwest Territories Geological Survey, NWT Open File 2009-05; 10 maps (1:250,000), 60 maps (1:50,000), 58p report & digital data.
N11	NTGS	NWT Open File 2012-15	500	2011	120	Fortin, R., Coyle, M., Fischer, B.J., Carson, J. and Dumont, R., 2012. Airborne geophysical survey of the Source Peaks area, Northwest Territories NTS 106 B Bonnet Plume Lake and parts of 105 O, 105 P, and 106 A; Northwest Territories Geological Survey, NWT Open File 2012-15; 10 maps (1:250,000), 50 maps (1:50,000), 105p report & digital data.
N18	NTGS	NWT Open File 2009-01	2000	2008	150	Geophysical series, NTS 96E, 106H and parts of 96C, 96D, 96F and 106A, Central Mackenzie Valley Airborne Gravity Survey, Norman Wells, Northwest Territories.

Other government airborne gravity and radiometric datasets can be downloaded from the Canadian Airborne Data Base, Geological Survey of Canada. Line spacing and height are in metres. Height is that of the aircraft.

Map Label	Name of Survey in GSC Database	Line Spacing	Year Flown	Flying Height	Map Label	Name of Survey in GSC Database	Line Spacing	Year Flown	Flying Height
G22	Fort Smith	5000	1970	120	G51	Stony Rapids (A)	5000	1996	120
G26	Fond du Lac (East)	5000	1974	120	G52	Stony Rapids (B)	5000	1996	120
G27	Kasmere Lake	5000	1975	120	G64	Nahanni, area A - Prairie Creek	500	2004	135
G28	65K	5000	1976	120	G65	Nahanni, area B - Caribou River	500	2005	135
G29	65L	5000	1976	120	G66	Nahanni, area C - Flat River	500	2005	135
G30	65N	5000	1976	120	G70	Blachford Lake	250	2011	100
G31	Dismal Lakes	5000	1976	120	G72	Yellowknife East	2500	1972	120
G32	Sloan River	5000	1976	120	G73	Yellowknife West	2500	1972	120
G33	Takaatcho River	5000	1976	120	G74	Bear Slave East	5000	1972	120
G36	Bebensee Lake	5000	1978	120	G75	Bear Slave West	5000	1972	120
G37	Hepburn Lake	5000	1978	120	G76	Marion River East	5000	1973	120
G40	Blachford Lake complex	250	1988	120	G77	Marion River West	5000	1973	120
G41	Prosperous Lake	500	1988	120	G78	Dubawnt	27500	1975	120
G42	Fort Reliance	500	1988	120	G79	Kwcd01	27500	1975	120
G43	Rutledge River	500	1988	120	G80	Kwcd02	27500	1975	120
G47	Mazenod Lake	500	1993	120	G81	Kwcd05	27500	1975	120
G48	Paul Lake	250	1993	120	G82	Kwcd06	27500	1975	120
					G83	Kwcd07	27500	1975	120