

Descriptive Notes
 The terrain map and associated data contain additional high resolution surveys in Alaska and the Yukon. Data used in this compilation were acquired from regional aeromagnetic surveys and high-resolution aeromagnetic surveys flown for the Geological Survey of Canada (GSC) by the U.S. Geological Survey (USGS) and the Alaska Division of Geological and Geophysical Surveys (ADGGS). Agreement in magnetic intensity between survey blocks is a result of differing topographic, flight altitude and equipment performance. Additional surveys were flown at a constant elevation and fixed wing aircraft surveys were flown at a constant terrain clearance.

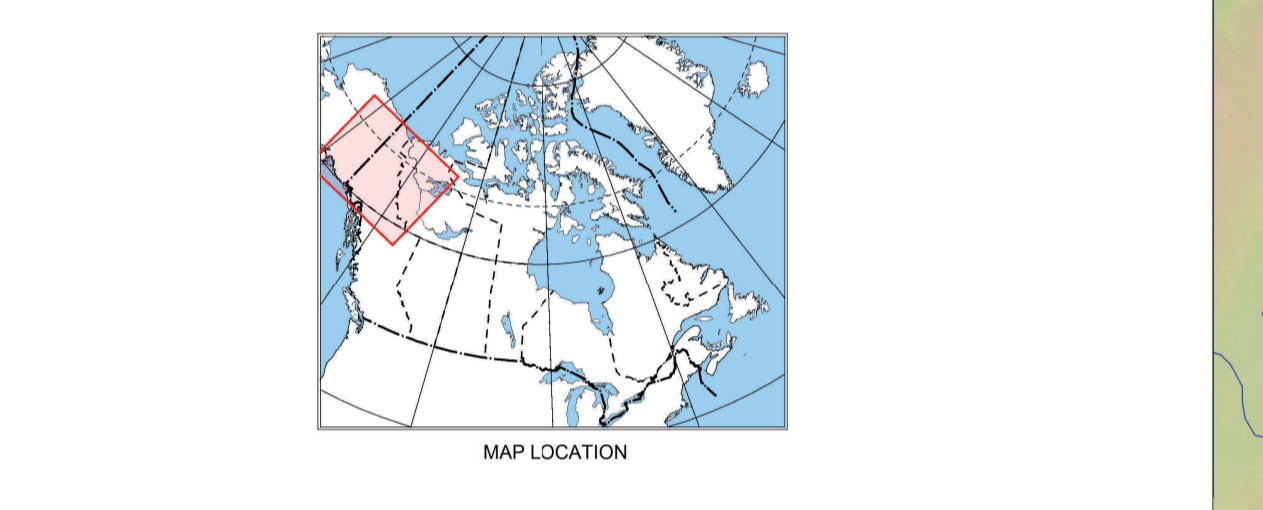
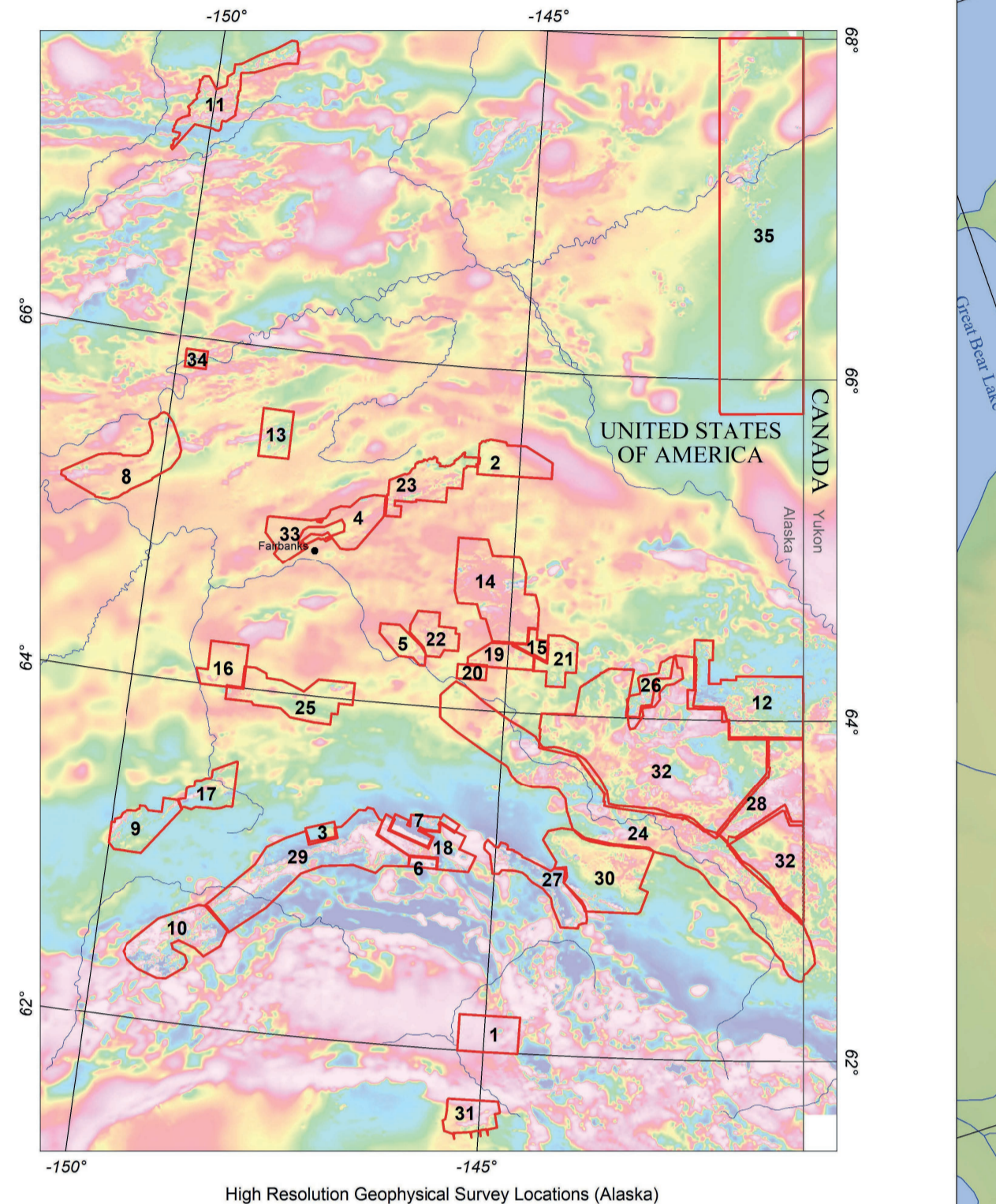
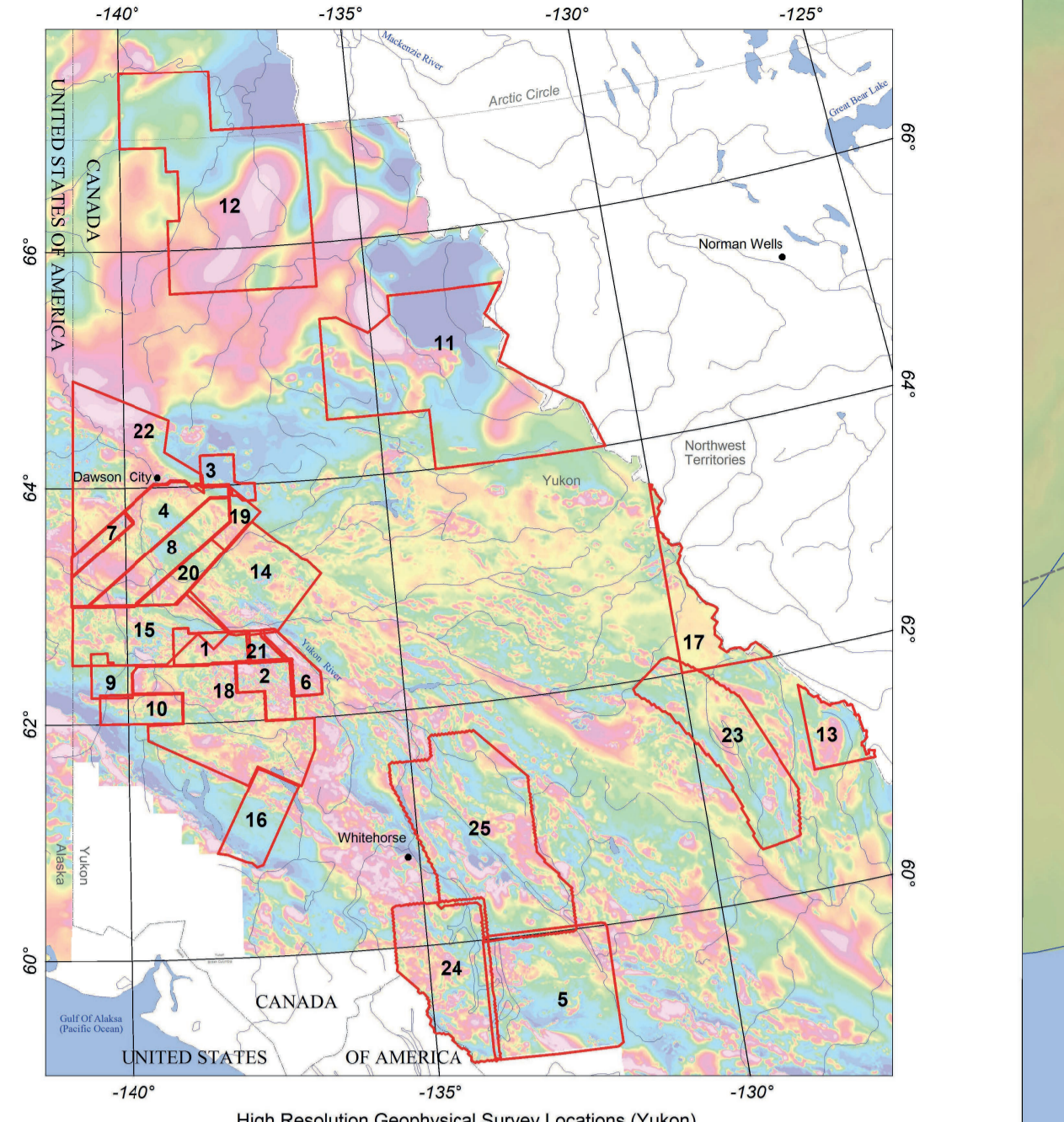
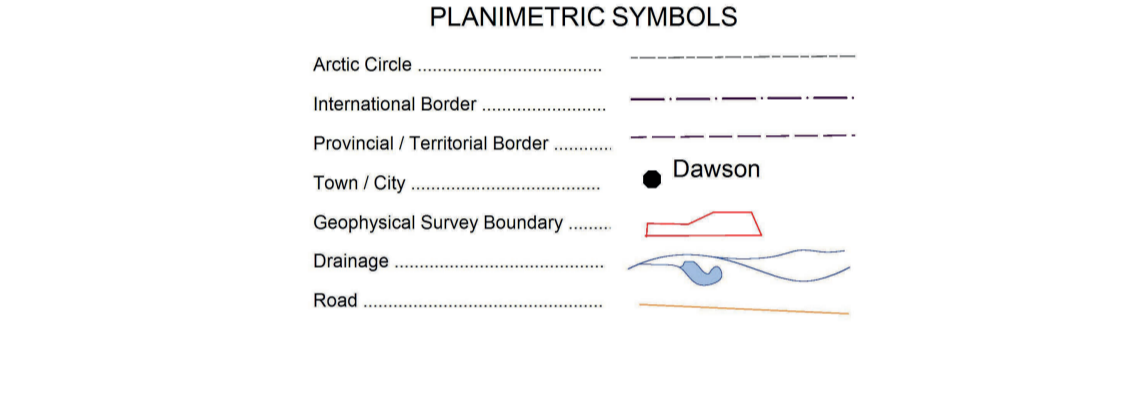
The high-resolution GSC surveys used in this compilation include:

Number	Survey	Year	Line Spacing	Height	Survey Type
1	Silver River	1993	500 m	120 m	Helicopter
2	Mount Napson	1994	500 m	120 m	Helicopter
3	Streny Creek	1997	250-500 m	120 m	Helicopter
4	Stewart River	2000	500 m	120 m	Helicopter
5	Adin	2001	500 m	200 m	Fixed wing
6	Mixon	2001	500 m	120 m	Helicopter
7	Stewart River II	2001	500 m	120 m	Helicopter
8	Stewart River III	2001	500 m	120 m	Helicopter
9	Carlin-Stewart Ridge	2008	400 m	125 m	Fixed wing
10	Southern Stewart Ridge	2008	400 m	125 m	Fixed wing
11	Wenawaka Mountains	2008	800 m	250 m	Fixed wing
12	Flax River	2009	800 m	300 m	Fixed wing
13	Flax River	2009	800 m	300 m	Fixed wing
14	McCarton	2009	400 m	150 m	Fixed wing
15	Northern Stewart Ridge	2009	400 m	100 m	Fixed wing
16	Kiwanuk	2010	400 m	100 m	Helicopter
17	Little Nahoon	2010	800 m	300 m	Fixed wing
18	Nahoon River	2010	400 m	100 m	Fixed wing
19	Sitigagan Creek Block A	2012	400 m	150 m	Fixed wing
20	Sitigagan Creek Block B	2012	400 m	150 m	Fixed wing
21	Wolkeene Creek	2012	400 m	150 m	Fixed wing
22	Dawson	2014	400 m	150 m	Fixed wing
23	Frasier Lake	2016	400 m	150 m	Fixed wing
24	Livelyly	2017	400 m	150 m	Fixed wing
25	Marsh Lake	2018	400 m	150 m	Fixed wing

The high-resolution DGGS and USGS surveys used in this compilation include:

Number	Survey Name	Flown By	Year	Line Spacing	Height	
1	Eastern Copper River	USGS	1962	800 m	150 m	
2	Croft Mining District	DGGS	1993	400 m	30 m	
3	Vastok Creek	DGGS	1993	400 m	30 m	
4	Fairbanks 1st West and East	DGGS	1994	400 m	30 m	
5	Richardson Mining District	DGGS	1994	400 m	30 m	
6	Nikolai (A)	DGGS	1995	200 m	45 m	
7	Nikolai (B, C)	DGGS	1995	200 m	45 m	
8	Rampart-Mantley Mining District	DGGS	1995-96	400 m	30 m	
9	Chulitna Mining District	DGGS	1996	400 m	30 m	
10	Iron Creek	DGGS	1997	400 m	30 m	
11	Koyukuk	DGGS	1997	400 m	30 m	
12	Fortneville District	DGGS	1998	400 m	30 m	
13	Lorenson District	DGGS	1998	400 m	30 m	
14	Sakcha River-Frigo	DGGS	1999-2000	400 m	30 m	
15	Sakcha River-Frigo Extension	DGGS	2000	400 m	30 m	
16	Liberty Hill	DGGS	2001	400 m	30 m	
17	Broad Pass	DGGS	2002	400 m	30 m	
18	S. Delta	DGGS	2002	400 m	30 m	
19	Goodwater	DGGS	2004	400 m	30 m	
20	Litlam	DGGS	2005	400 m	30 m	
21	Black Mountain	DGGS	2005	400 m	30 m	
22	East Richardson	DGGS	2005	400 m	30 m	
23	Northwest Fairbanks	DGGS	2005	400 m	30 m	
24	At Highway Corridor	DGGS	2006-2006	400 m	30 m	
25	Bonfield	DGGS	2006-2007	400 m	30 m	
26	Western Fortneville	DGGS	2007	400 m	30 m	
27	Sare Co-Rena River	DGGS	2008-2009	400 m	30 m	
28	Lake	DGGS	2010	400 m	30 m	
29	Wraggella	DGGS	2013	400 m	30 m	
30	Tok	DGGS	2014	400 m	30 m	
31	Tonina	DGGS	2014	400 m	30 m	
32	Paradise	DGGS	2015	500 m	100 m	
33	Gokhrova Valley	DGGS	2016	100 m	100 m	
34	Yukon Crossing	DGGS	2016	80 m	400 m	30 m
35	Porcupine River	DGGS	2017	300 m	100 m	

References:
 Pilkington, M., and Thurston, J. B. 2001. Draping corrections for aeromagnetic data: line versus grid-based approaches. *Exploration Geophysics*, v. 32, no. 2, p. 95-101.



GEOLOGICAL SURVEY OF CANADA
 OPEN FILE 7862 (VERSION 2.0)
ALASKA AND YUKON MAGNETIC COMPILATION
RESIDUAL TOTAL MAGNETIC FIELD
 Scale 1:1 125 000

Recommended citation:
 Oneschuk, D., Miles, W., Sault, R., and Hayward, N., 2019. Alaska and Yukon Magnetic Compilation: Residual total magnetic field, scale 1:1 125 000. <https://doi.org/10.4095/313537>

