

**BC Geological Survey
Assessment Report
37871**



TYPE OF REPORT [type of survey(s)]: Airborne Magnetic Inversion

TOTAL COST: 2500.00

AUTHOR(S): Walcott, A.

SIGNATURE(S): Digital

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): Sept 1-8th

YEAR OF WORK: 2018

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5713921

PROPERTY NAME: Frog South

CLAIM NAME(S) (on which the work was done): 1038654

COMMODITIES SOUGHT: Copper, Molybdenum, Silver, Gold

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 094E164,094E030

MINING DIVISION: Liard

NTS/BCGS: 094E14

LATITUDE: 57 ° 57 ' 32 " LONGITUDE: 127 ° 15 ' 07 " (at centre of work)

OWNER(S):

1) Charles Greig, Lorne Warren, Alex Walcott

2) _____

MAILING ADDRESS:

38-181 Ravine Dr, Port Moody, V3H 3T3

OPERATOR(S) [who paid for the work]:

1) as above

2) _____

MAILING ADDRESS:

as above

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 1674, 30681,30934, 33391

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	_____	_____	_____
Photo interpretation	_____	_____	_____
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic	_____	_____	_____
Electromagnetic	_____	_____	_____
Induced Polarization	_____	_____	_____
Radiometric	_____	_____	_____
Seismic	_____	_____	_____
Other Inversions	_____	_____	2500.00
Airborne			
_____	_____	_____	_____
GEOCHEMICAL (number of samples analysed for...)			
Soil	_____	_____	_____
Silt	_____	_____	_____
Rock	_____	_____	_____
Other	_____	_____	_____
DRILLING (total metres; number of holes, size)			
Core	_____	_____	_____
Non-core	_____	_____	_____
RELATED TECHNICAL			
Sampling/assaying	_____	_____	_____
Petrographic	_____	_____	_____
Mineralographic	_____	_____	_____
Metallurgic	_____	_____	_____
PROSPECTING (scale, area)			
_____	_____	_____	_____
PREPARATORY / PHYSICAL			
Line/grid (kilometres)	_____	_____	_____
Topographic/Photogrammetric (scale, area)	_____	_____	_____
Legal surveys (scale, area)	_____	_____	_____
Road, local access (kilometres)/trail	_____	_____	_____
Trench (metres)	_____	_____	_____
Underground dev. (metres)	_____	_____	_____
Other	_____	_____	_____
		TOTAL COST:	2500.00

EVENT #5713921
AN ASSESSMENT REPORT
ON
3D MAGNETIC MODELLING
FROG SOUTH PROPERTIES
TOODOGGONE AREA, BRITISH COLUMBIA

LIARD M.D.
57° 58.9 'N, 127° 12.2'W
NTS 93E/ 14 & 94L/03

Claims: 1038654

Work Dates: September 1st-8th, 2018

FOR
Charles Greig, Lorne Warren, Alex Walcott
BRITISH COLUMBIA

BY
ALEX WALCOTT, B. Sc.

PETER E. WALCOTT & ASSOCIATES LIMITED
Coquitlam, British Columbia

JANUARY 2019

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APPENDIX I

Cost of Project
 Personnel Employed on Survey
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ACCOMPANYING MAPS

Claim & Line Location Map Frog South	Scale 1:10,000
Contours of Total Field Intensity (nT) Frog South	Scale 1: 10,000
3D Inverted Susceptibility Slices of Respective Survey Lines	Scale 1: 10,000

INTRODUCTION.

Between September 1st and 8th, 2018, Peter E. Walcott & Associates Limited 3D Magnetic Modelling over the Frog South properties for Charles Greig, Lorne Warren, Alex Walcott

The modelling dataset consisted of some 61.1 line kilometers of detailed airborne magnetics flown with a nominal line spacing 100 m line spacing flown the previous year.

Title Number	Area Ha	Issue Date	Expire Date	Owners
1038654	1013.51	2015/Sep/18	2019/Jan/05	Charles Greig (33.3%) Lorne Warren (33.3%) Alex Walcott (33.3%)

Claim List

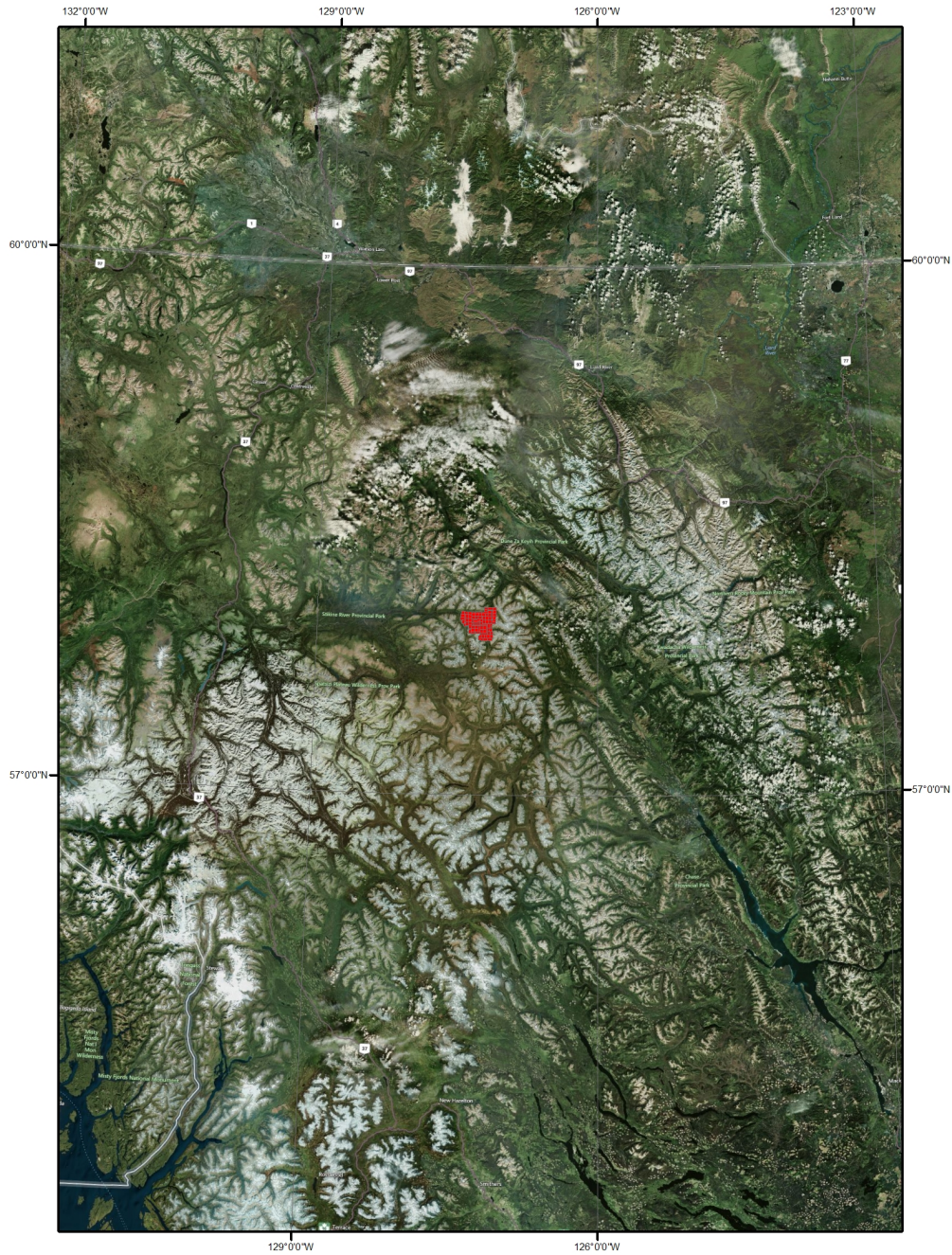
PROPERTY LOCATION AND ACCESS

The Frog property is located some 115 kilometres in the Stikine mountain range northwest of the community of Ft. Ware, British Columbia.

Access to the property is obtained via float plane from Muncho Lake situated on the Alaska Highway, some 137 kilometers to the northeast, and then by helicopter from a small fishing cabin situated on the northern shore of Frog lake.

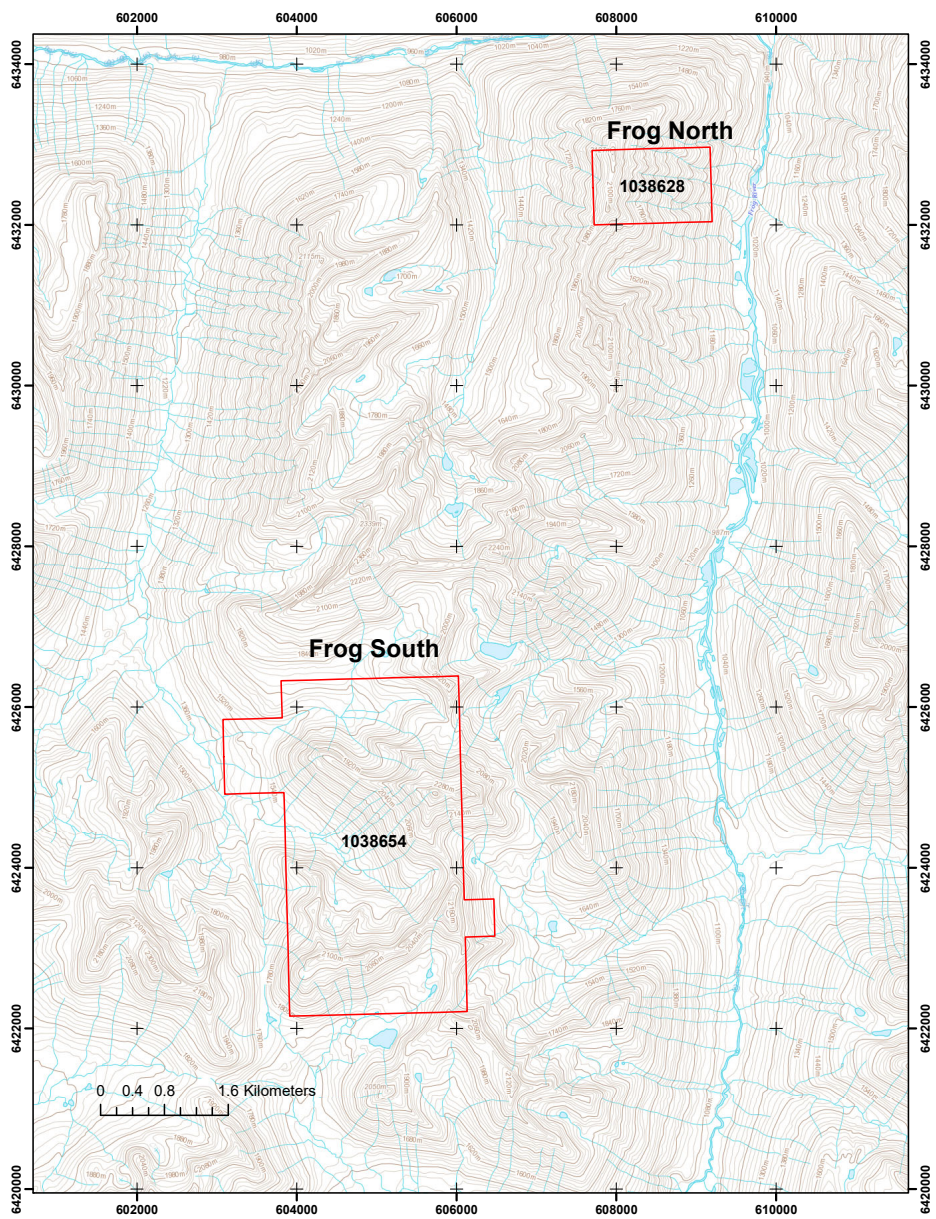
Alternatively, the project can be accessed by helicopter from Kemess mine site some 120 kilometers to the south-southeast where the crew was housed for the duration of this survey.

PROPERTY LOCATION AND ACCESS cont'd



Property Location Map

PROPERTY LOCATION AND ACCESS con't



Claim Map

PREVIOUS WORK.

The first recorded work in the area was conducted in 1968 by Cordilleran Engineering Limited for Quebec Cartier Mining Company. Geological mapping and stream sediment sampling were undertaken, investigating for copper and molybdenum occurrences.

Bitterroot Resources Ltd. staked a portion of the Frog property in April 2007 to investigate elevated RGS stream sediments samples and in July of 2008, a four person crew spent a single day on the property collecting stream sediment samples. The results of the survey yielded extremely anomalous copper and molybdenum, with the highest value being 3200 ppm copper.

In 2011 International Samuel Limited optioned the Frog property from Alex Walcott and Charles Greig, and in late spring of 2011, flew a 1029 kilometer airborne magnetic survey with a nominal line spacing of some 200 meters.

A follow up prospecting and sampling program was later carried out in the summer with the collection of 117 samples. The results of the program proved sufficiently encouraging to conduct a second program in the following year.

In 2012, International Samuel Limited collected some 520 rock and talus samples, and recorded some 80 regional observation points. The results of the program showed highly anomalous copper / molybdenum values over a broad region.

However, given the remoteness of the project, International Samuel Limited terminated the option in September 2014.

In 2015, Peter E. Walcott & Associates undertook a review of geophysical and remote sensing data.

For further information the reader is referred to the Government of British Columbia Aris website.

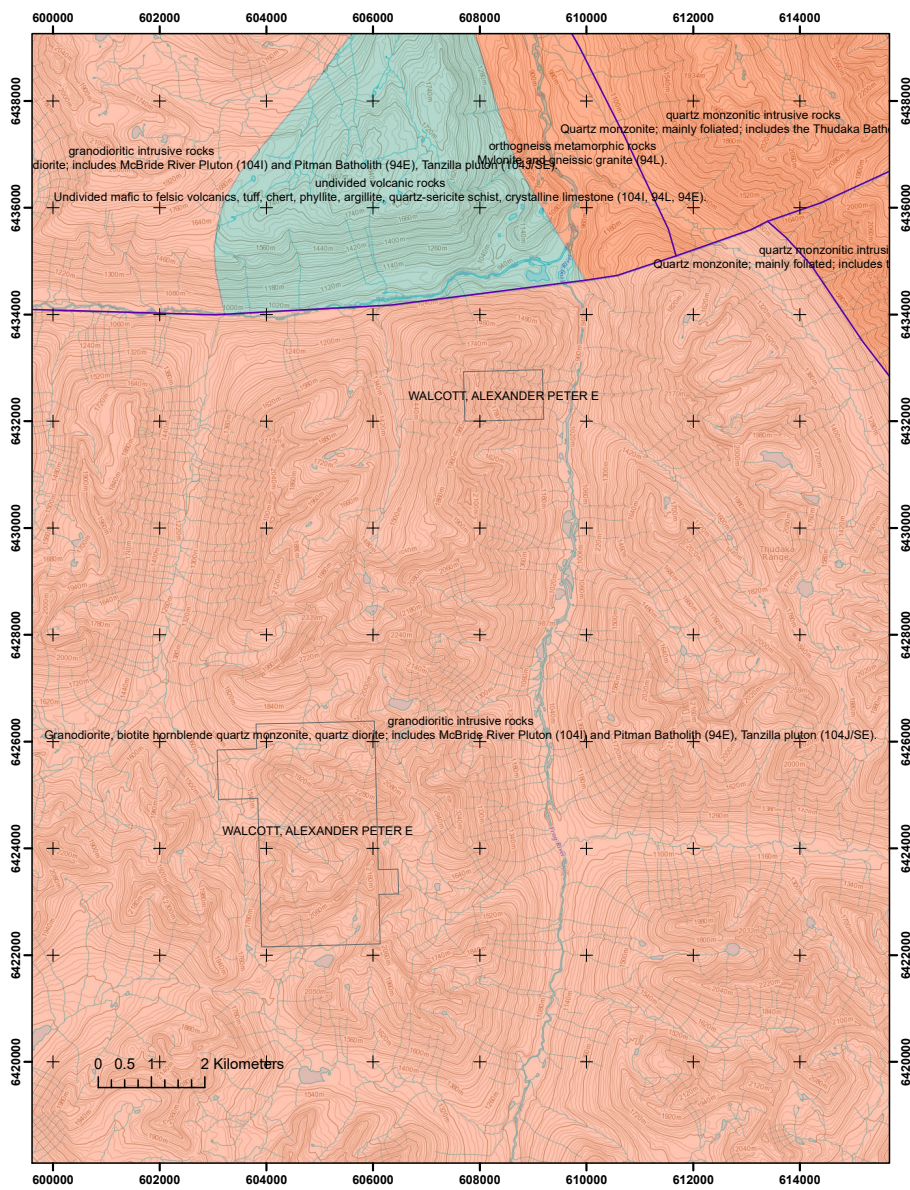
GEOLOGY.

The Frog property located in the Quesnellia terrane. Based on regional mapping the property appears to be underlain entirely by early Jurassic granodiorite intrusive rocks related to the Pitman Batholith. The property is bounded by the Pitman fault to the north, and Frog River fault in the east.

To date limited geological mapping has been undertaken in the project area, however the author would refer the reader to Aris reports 1674 and 30934, for a general synopsis of the geology.

For a detailed overview the author would refer the reader to the various assessment reports which contain detailed descriptions of the property geology.

GEOLOGY cont'd.



Property Geology After BCGS

PURPOSE.

The purpose of the of the modelling was to attempt to utilize the data from the detailed high resolution magnetic survey to locate discrete features beneath an creek which contained extremely anomalous copper values.

SURVEY SPECIFICATIONS.

The Historic Airborne Magnetic Survey.

The airborne magnetic survey was conducted using a bird type system towed on a 65' line by a ASTAR BA (GSKJ) operated by Silver King Helicopters Ltd of Smithers, British Columbia.

The bird unit consists of three main components – C-824 Cesium Magnetometer manufactured by Geometrics San Jose, California, AR3000 Laser Range Finder manufactured by Acuity of Portland, Oregon and a 19x GPS manufactured by Garmin International Inc. of Kansas City, Kansas.

The C-824 Cesium Magnetometer is a highly sensitive magnetic sensor capable of providing sensitivity up to 0.01 nT and sampling rates up to 1000 Hz. On this survey a sampling rate of 10 Hz was employed.

The respective components were in turn connected to the helicopter via a shielded multi-conductor cable within the tow line for power and data transmission to the logging units on the helicopter.

Flight line navigation data was obtained using Hemisphere R330 GNSS receiver with a 10 Hz update rate.

Data logging and navigation were carried out utilizing Geometrics MagLogPro software on a Panasonic CF-19 Toughbook computer with a secondary 7" daylight viewable pilot navigation monitor.

In addition to the airborne unit the survey also utilized two GSM 19 overhauser magnetometer manufactured by GEM Instruments of Richmond Hill, Ontario as base magnetometers. These instruments measure variations in the total intensity of the earth's magnetic field to an accuracy of plus or minus one nanotesla.

DATA PROCESSING AND PRESENTATION.

The data was first exported from MagLogPro, where the various sensor inputs were merged into Geosoft compatible ascii files. This merged dataset was then loaded into Geosoft Oasis Montaj for data reduction and processing.

The data was first corrected for diurnal magnetic drift, utilizing the magnetic base stations. The data was then lag corrected to account for positioning errors due to instrument delay and other positional errors. Tie line levelling was then undertaken prior to gridding.

Gridding was then undertaken on the levelled line data utilizing Geosoft's Rangrid algorithm using a 17.5 meter cell size.

The reduced and leveled data set was then subject to several filtering techniques using the Geosoft MagMap module for evaluation and presentation.

The magnetic data for each of the respective blocks presented in this report is Contours of Total Magnetic Intensity.

DATA INVERSION.

The base station corrected results were then exported into two separate datasets; a Geosoft data base and a format compatible with UBC-GIF Mag3dInv.

Topography for the respective models was obtained from BC Trim data, and formatted appropriately for the respective code.

The UBC inversion was done only a secondary check for the Geosoft Voxi inversion code, and was not presented.

Utilizing Geosoft Voxi potential field modelling a 25-meter mesh was generated, and the data imported. The height for the magnetic sensor was obtained from the bird laser. The none leveled corrected data was then uploaded to the model.

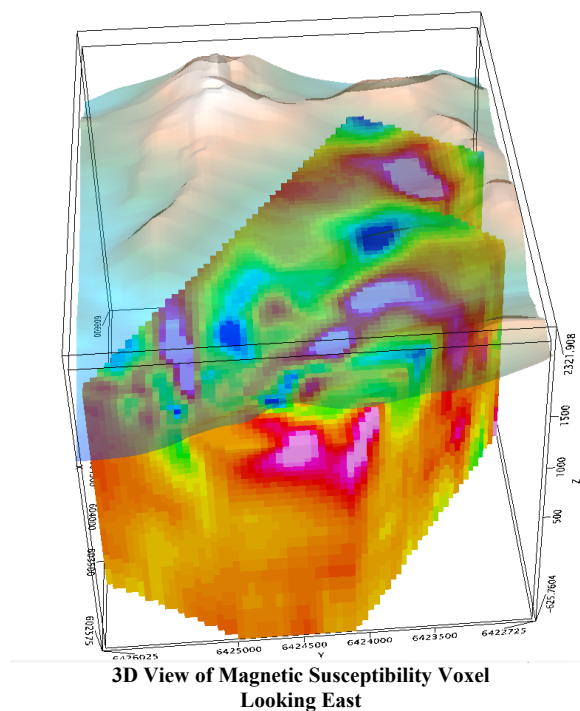
Two separate modelling techniques were utilized. First a conventional magnetic susceptibility model was carried out, and the resulting product was analyzed. A subsequent inversion was then carried out using a magnetic vector inversion. Results for the former are presented in Appendix A.

DISCUSSION OF RESULTS.

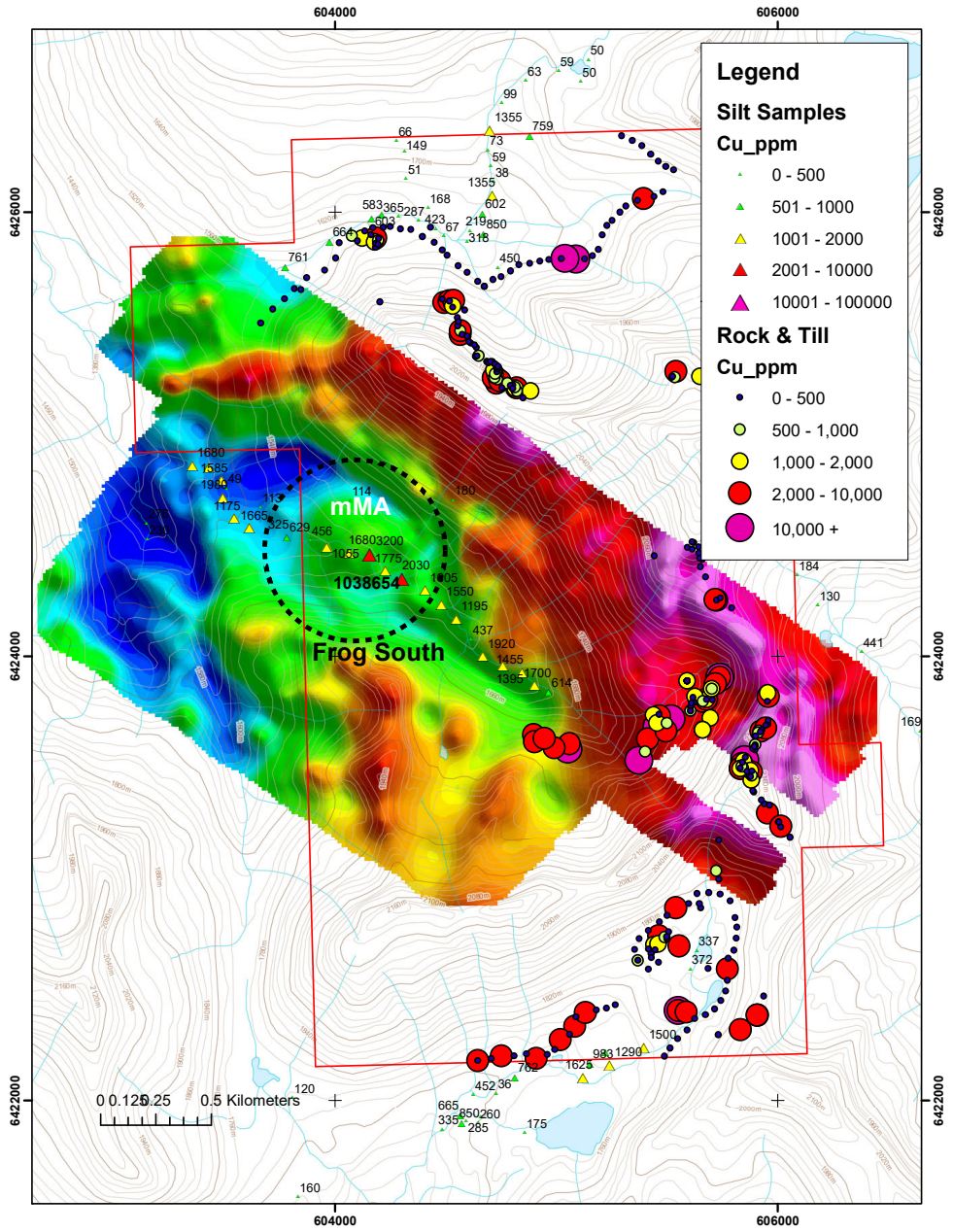
The 2017 high resolution airborne magnetic survey conducted over the Frog properties was designed to re-fly select portions of the Frog property which were previously flown by International Samuel Limited in 2011. This was carried out for two reasons; A) to achieve a higher density data B) to attempt to reduce the instrument high by varying the flight line directions.

The subsequent 3D inversion of the 2017 high resolution dataset was to attempt to gain any additional information proximal to target mMA.

The resulting products produced several zones of elevated magnetic susceptibility, associated with ridge top features, however only weak signature was observed proximal to mMA.



DISCUSSION OF RESULTS cont'd.



*Historic Copper Geochemistry of
2017 Airborne Magnetics*

SUMMARY, CONCLUSIONS & RECOMMENDATIONS.

Between September 4th and 8th, 2018, Peter E. Walcott & Associates Limited undertook a 3D magnetic inversion over the Frog South properties, located in the Toadoggone area of British Columbia.

The inversion was carried out on a high resolution data set with a nominal spacing of some 100 meters on northwest-southeast orientations

The results of the inversion met with limited success in identifying additional targets.

Despite the highly anomalous copper values, given the remoteness of the project, no further work is recommended at this time.

Respectfully submitted,

PETER E. WALCOTT & ASSOCIATES LTD.

**Alexander Walcott
Geophysicist**

**Coquitlam, B.C.
January 2018**

APPENDIX I

COST OF PROJECT.

Peter E. Walcott & Associates Limited undertook 3D inversion of the Frog property for a flat rate of \$1900.00, and additional \$600.00 was charged for reporting thus the total cost of services provided was \$2,500.00

PERSONNEL EMPLOYED.

Name	Occupation	Address	Dates
Peter E. Walcott	Geophysicist	Unit 111- 17 Fawcett Rd. Coquitlam, B.C. V3K 6V2	
Alexander Walcott	"	"	Sept 1 th -8 th , 2018

CERTIFICATION.

I, Alexander Walcott, of 38-181 Ravine Dr., Port Moody, British Columbia, hereby certify that:

1. I am a graduate of the University of Alberta with a B.Sc. Earth Sciences Major, with a Physics Minor.
2. I have been active in mineral exploration for the past 20 years.
3. I am currently employed by Peter E. Walcott & Associated Limited.

Alexander Walcott, B.Sc.

**Coquitlam, B.C.
January 2018**

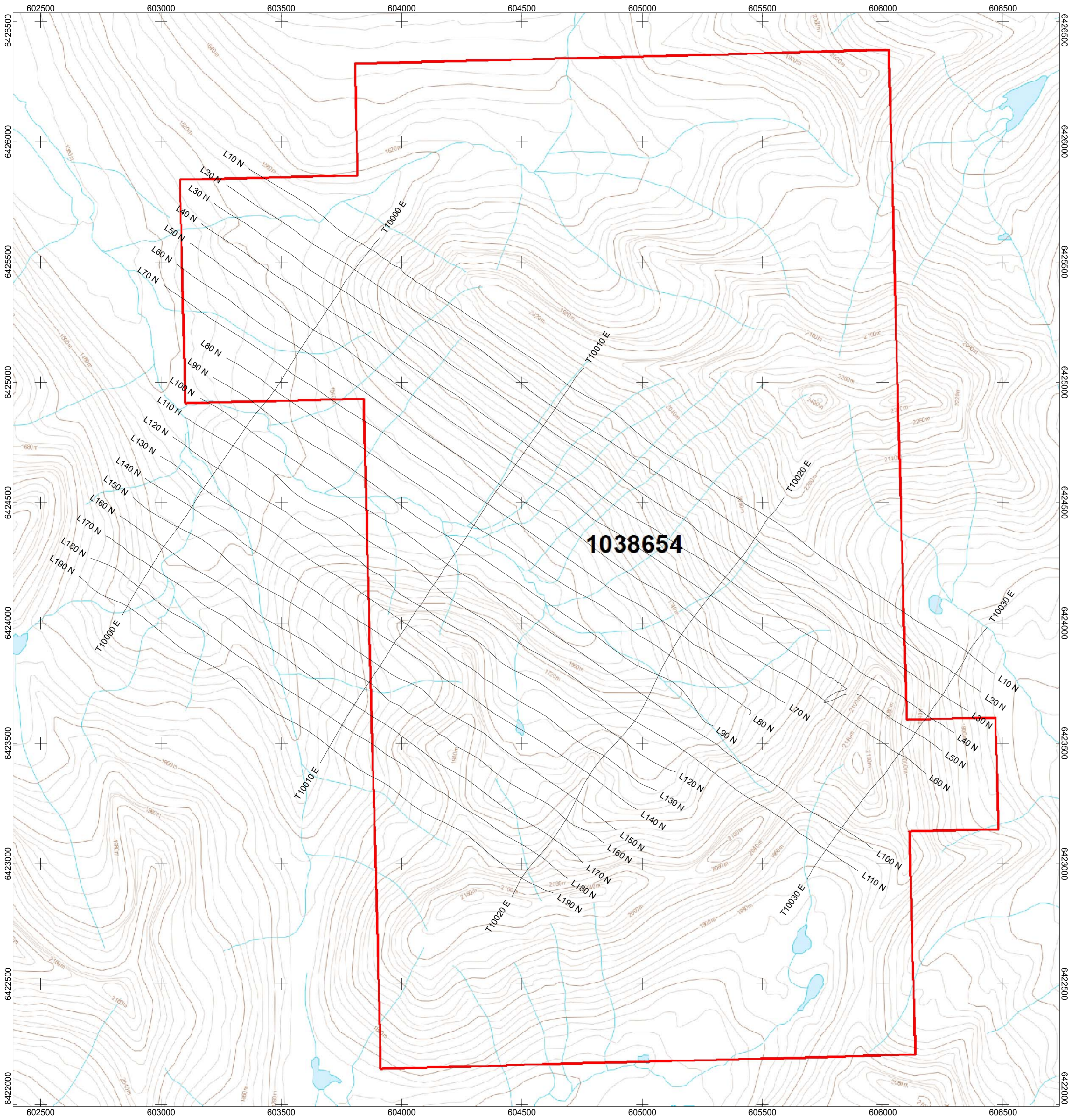
REFERENCES.

Bell, T. , A geochemical and Prospecting Report on the Copper Frog Property,
Liard Mining Division, British Columbia, Assessment Report 30934

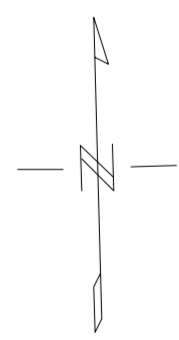
Flasha, S.T. and Greig C.J. , 2008 Stream Sediment Geochemistry,
Pit Bullfrog Property, Toodoggone River Area
Liard Mining Division, Northern British Columbia, Assessment Report 30681.

Kalninus, T. and Stollery, J.W. , Geological and Geochemical Report from July 21 to
August 6, 1968 on the TK Nos. 1 – 88 Claims,
Liard Mining Division, British Columbia, Assessment Report No 1674.

Strickland, Derrick, Assessment Report on the Frog Property,
Liard Mining Division, Northern British Columbia, Assessment Report 33391

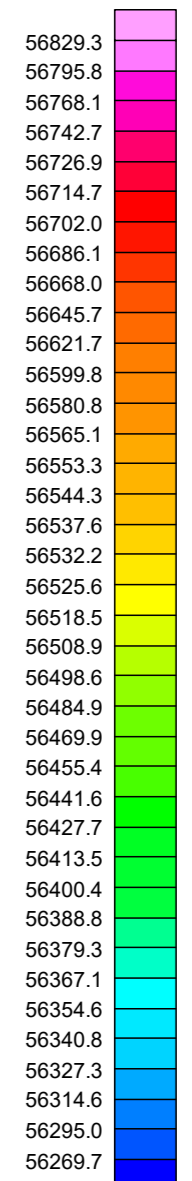
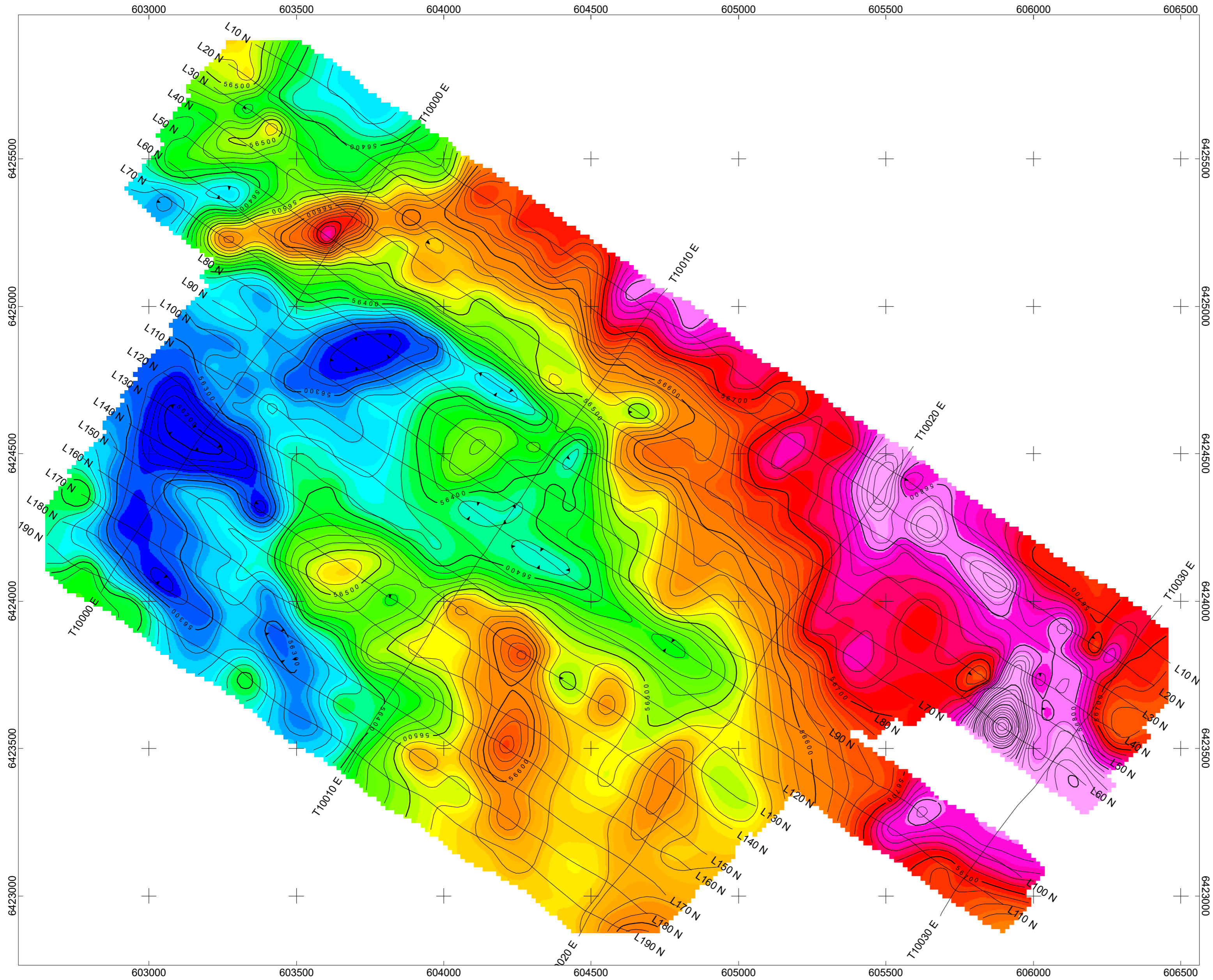


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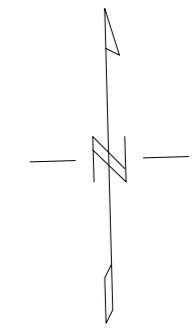


Scale 1:10000
(meters)
NAD83 / UTM zone 9N

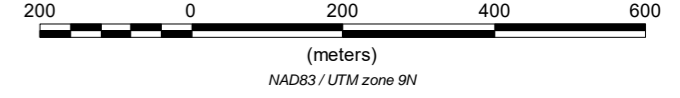
GREIG, WARREN, WALCOTT
AIRBORNE MAGNETIC SURVEY
CLAIM AND FLIGHT LINE LOCATION MAP
FROG SOUTH
TOODOGGONE AREA, BRITISH COLUMBIA
SEPTEMBER 2018
PETER E. WALCOTT & ASSOCIATES LIMITED



nT

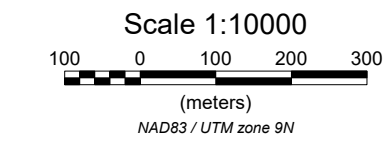
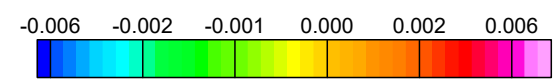
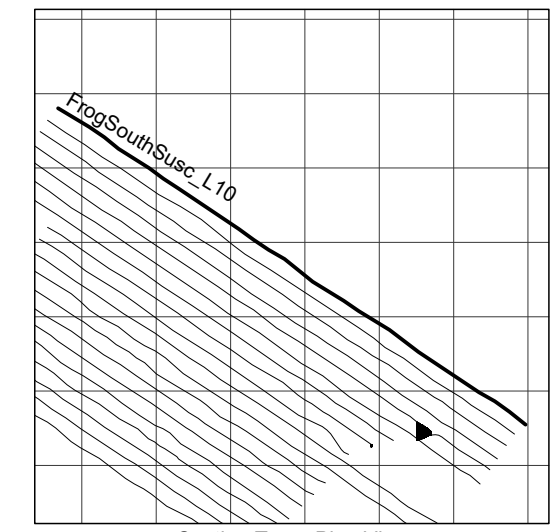
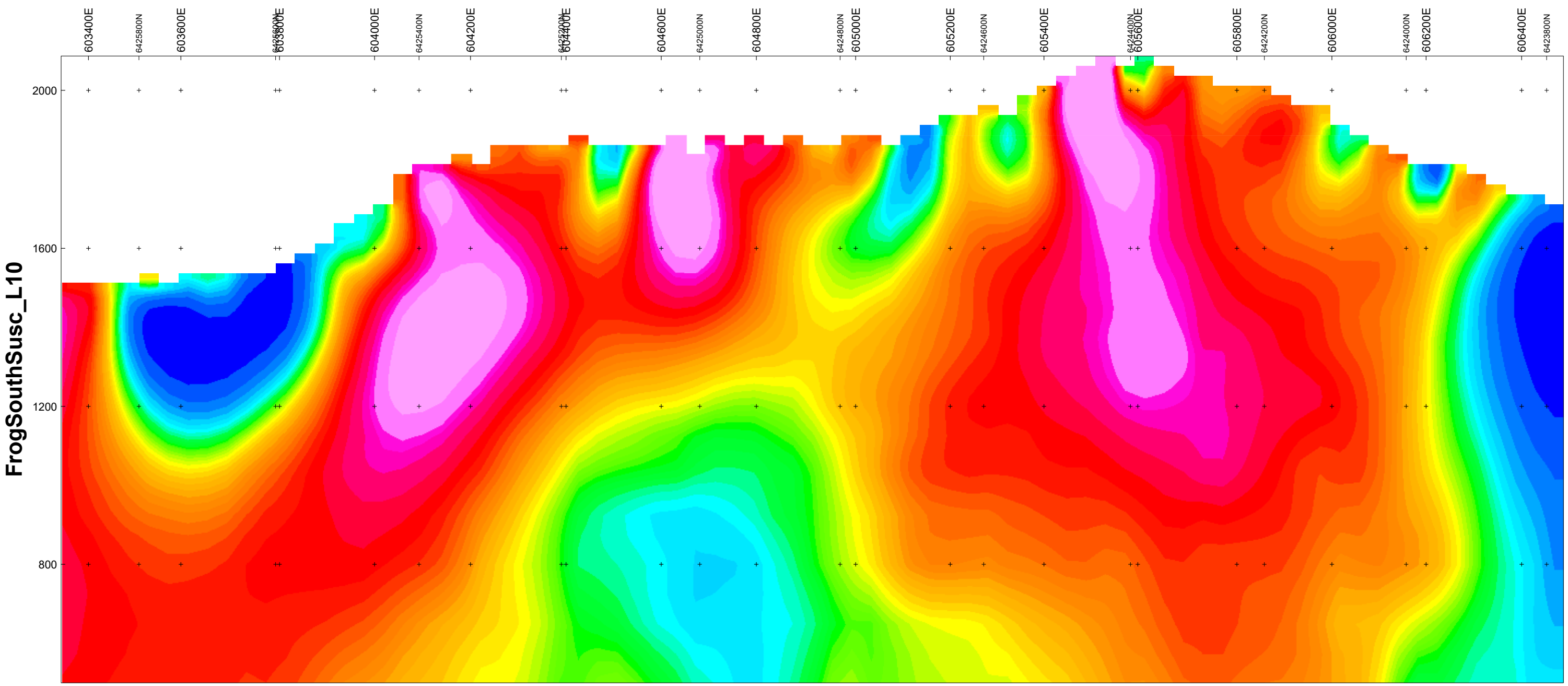


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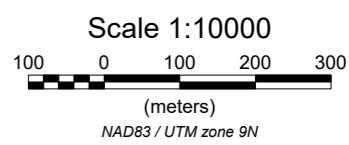
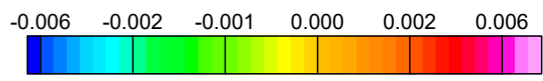
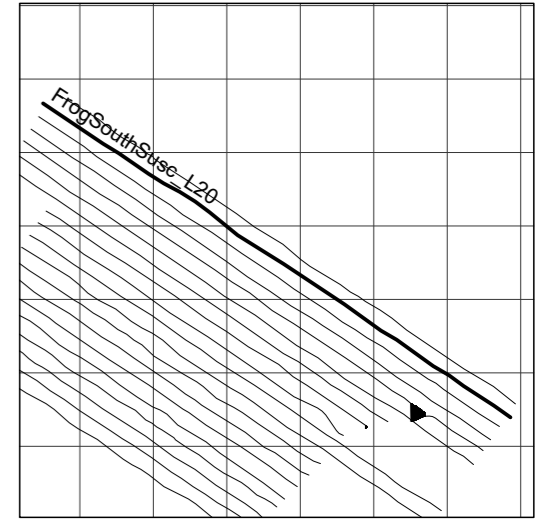
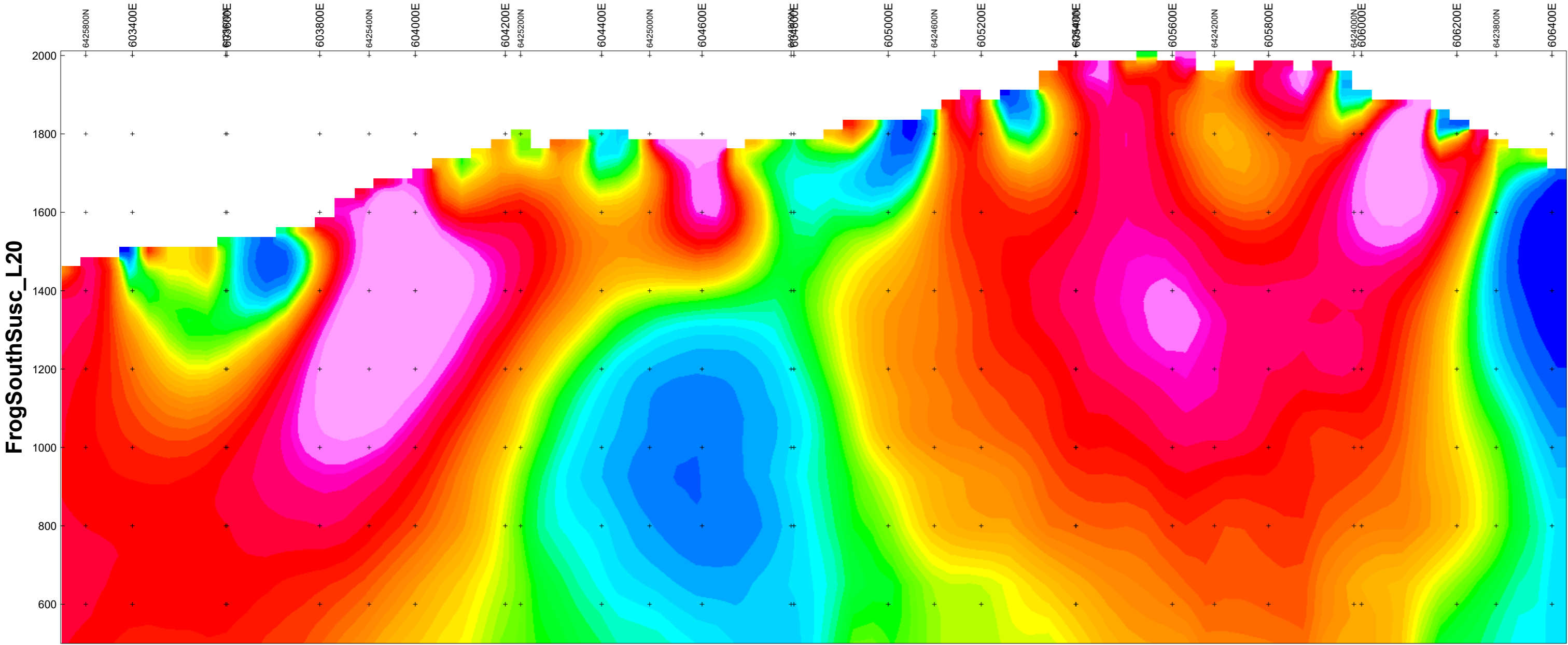
(meters)
NAD83 / UTM zone 9N

GREIG, WARREN, WALCOTT
AIRBORNE MAGNETIC SURVEY
CONTOURS OF TOTAL FIELD INTENSITY (nT)
 FROG SOUTH
 TOODOGGONE AREA, BRITISH COLUMBIA
 SEPTEMBER 2018
PETER E. WALCOTT & ASSOCIATES LIMITED



Vertical Exaggeration: 1

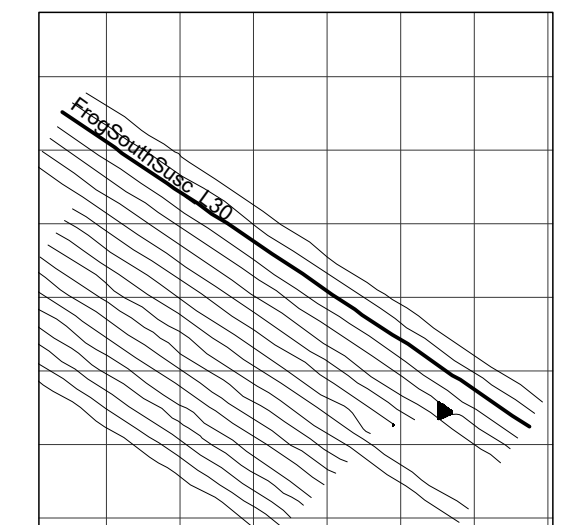
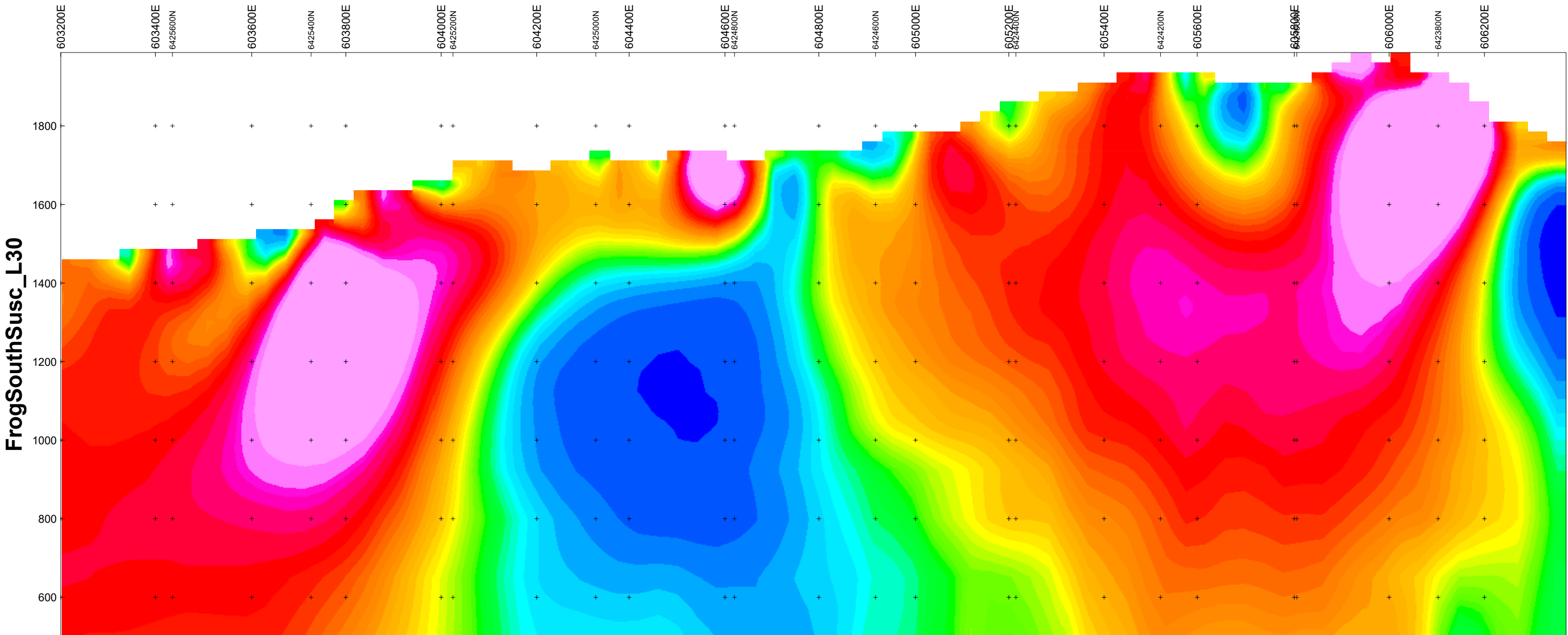
3D MAGNETIC SUSCEPTIBILITY MODEL
 FROG SOUTH



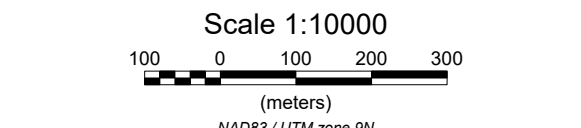
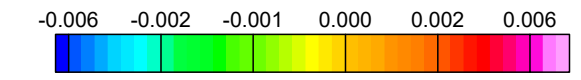
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3D MAGNETIC SUSCEPTIBILITY MODEL

FROG SOUTH

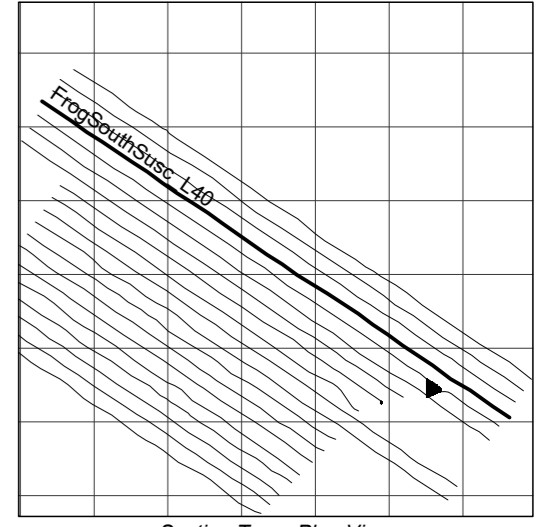
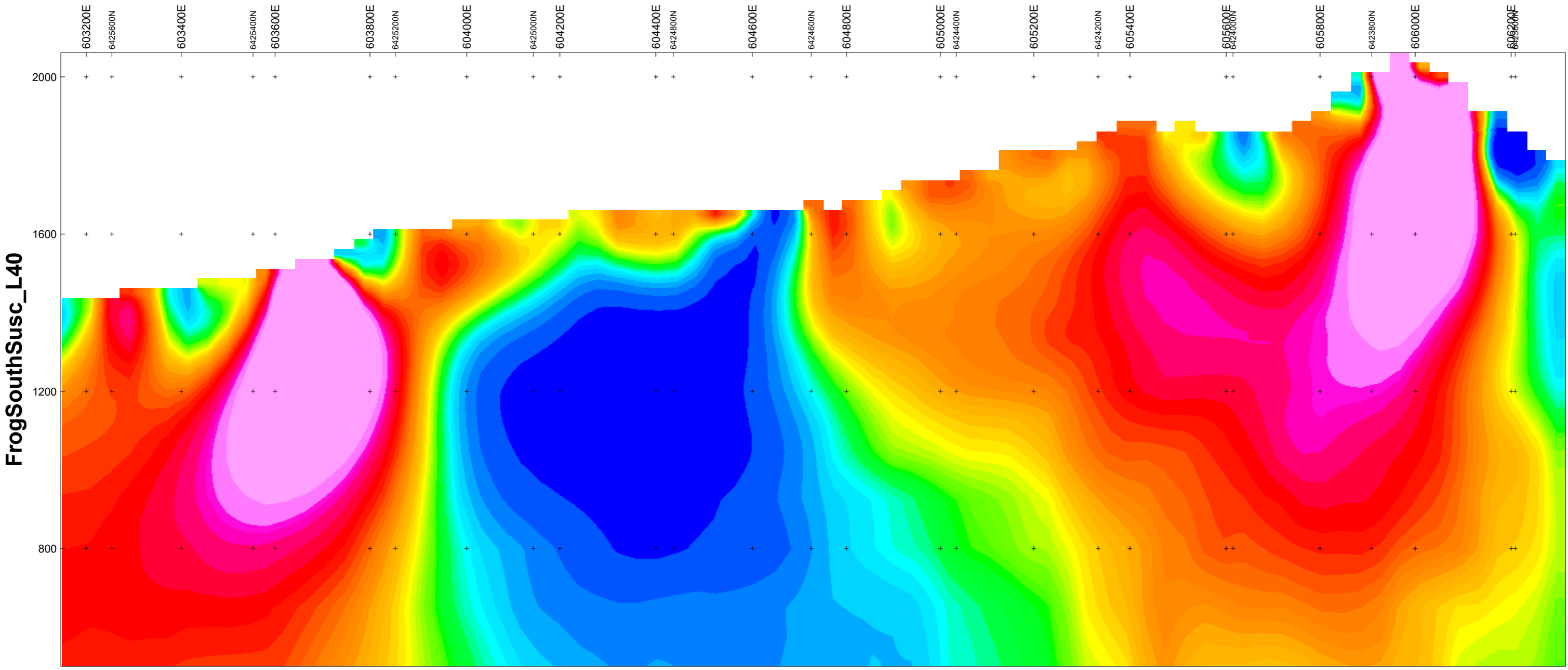


Section Trace Plan View

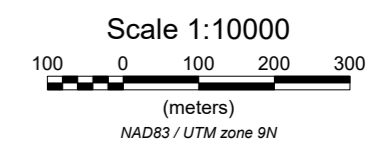
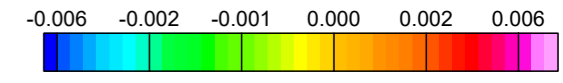


Vertical Exaggeration: 1

3D MAGNETIC SUSCEPTIBILITY MODEL
FROG SOUTH



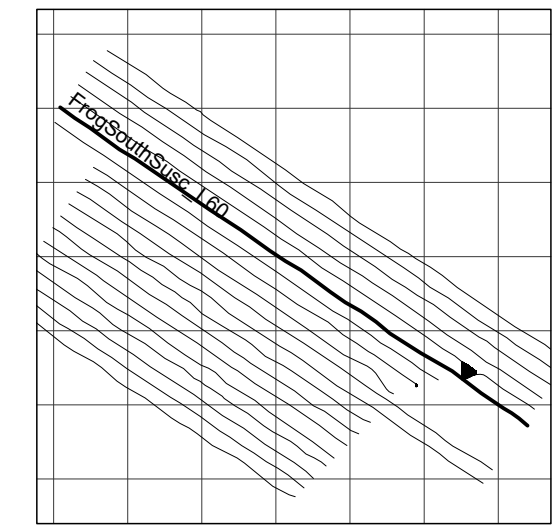
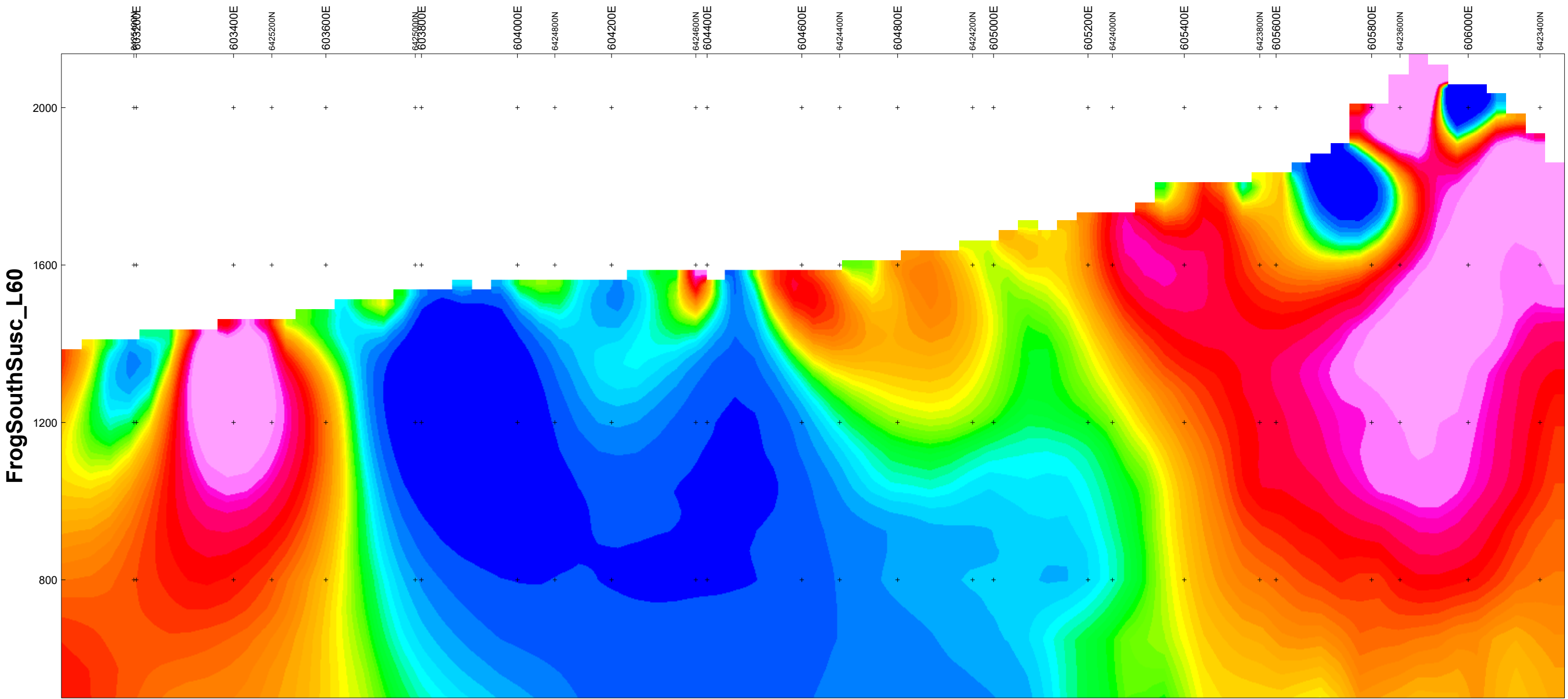
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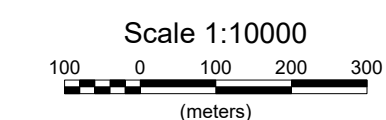
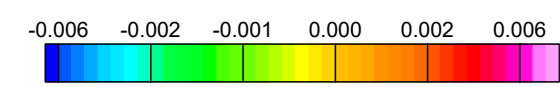
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3D MAGNETIC SUSCEPTIBILITY MODEL

FROG SOUTH



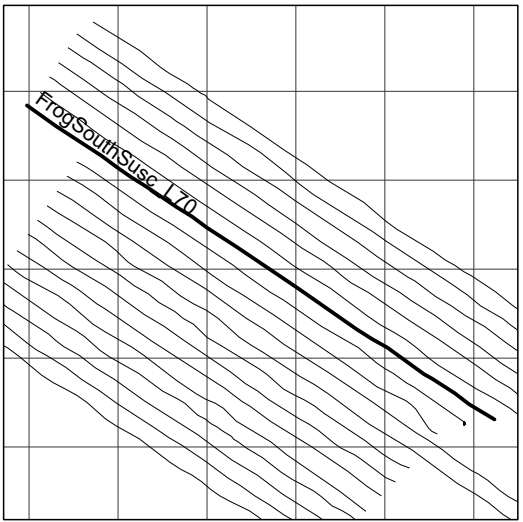
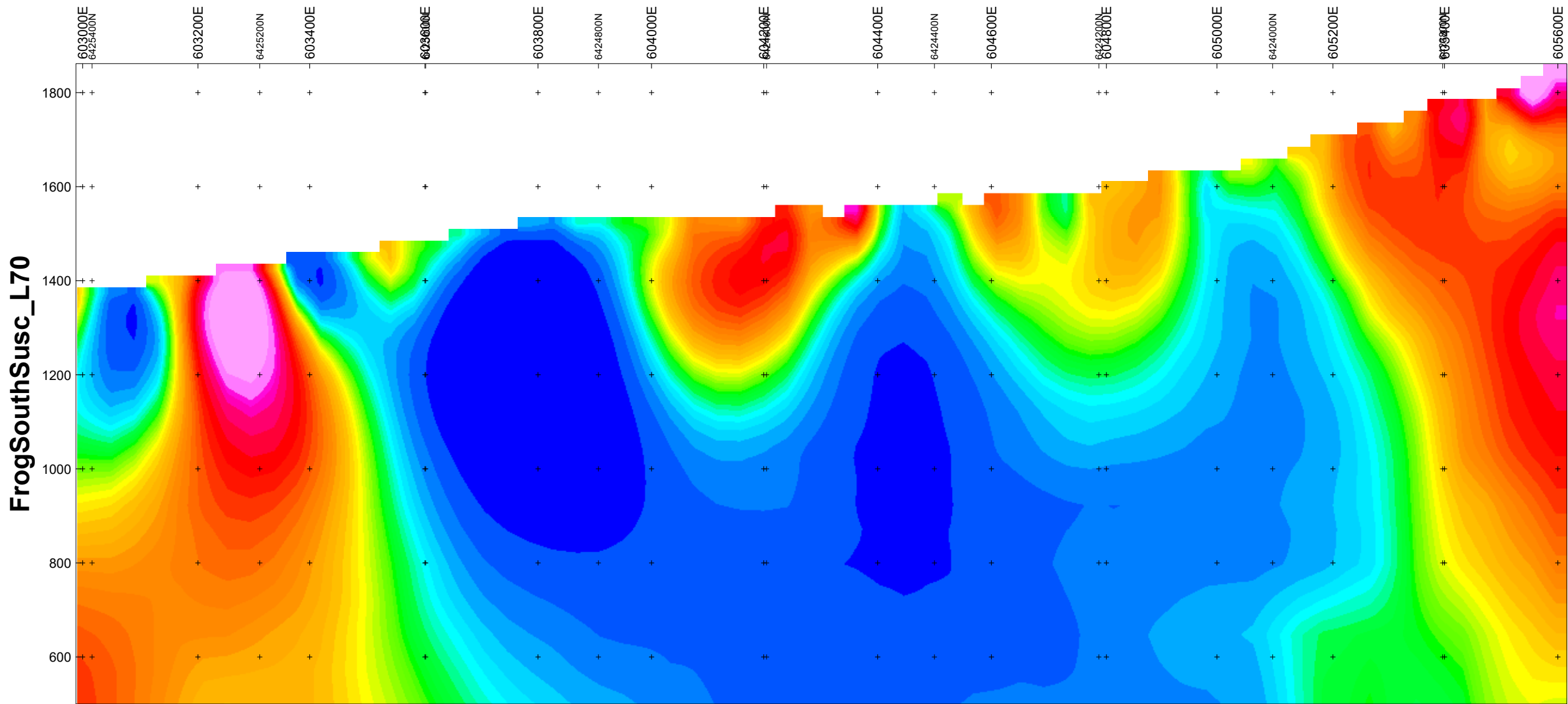
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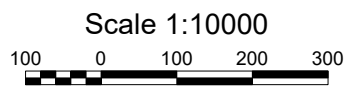
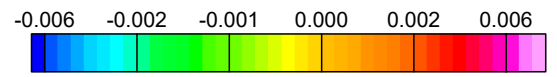
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3D MAGNETIC SUSCEPTIBILITY MODEL

FROG SOUTH



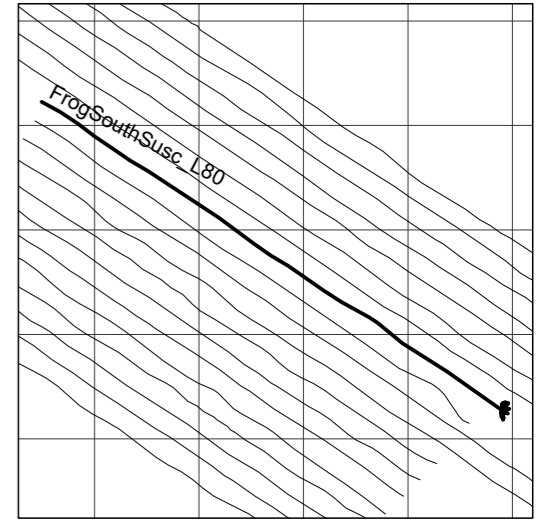
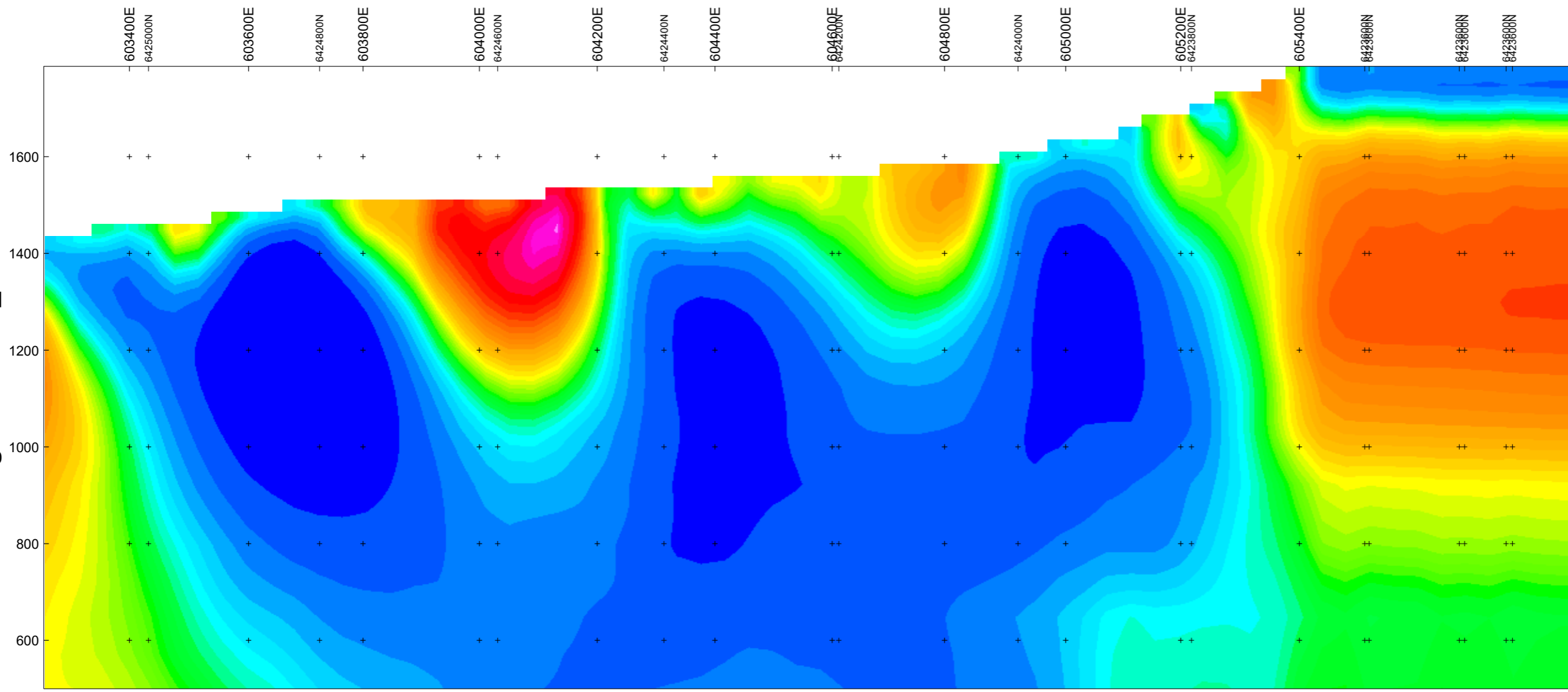
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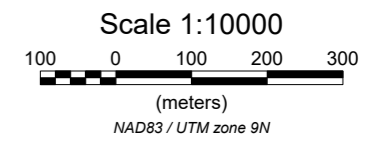
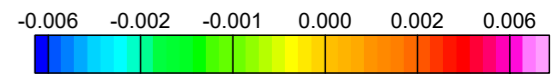
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3D MAGNETIC SUSCEPTIBILITY MODEL
FROG SOUTH

FrogSouthSusc_L80



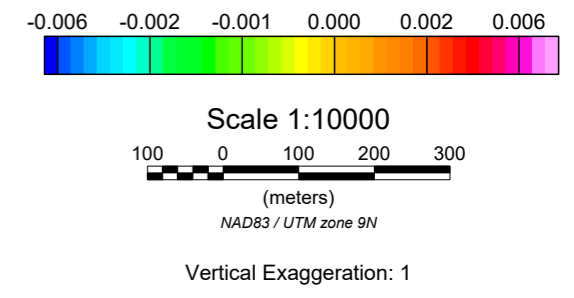
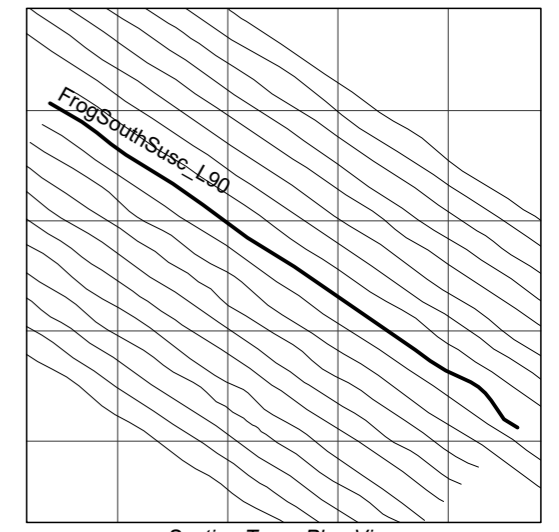
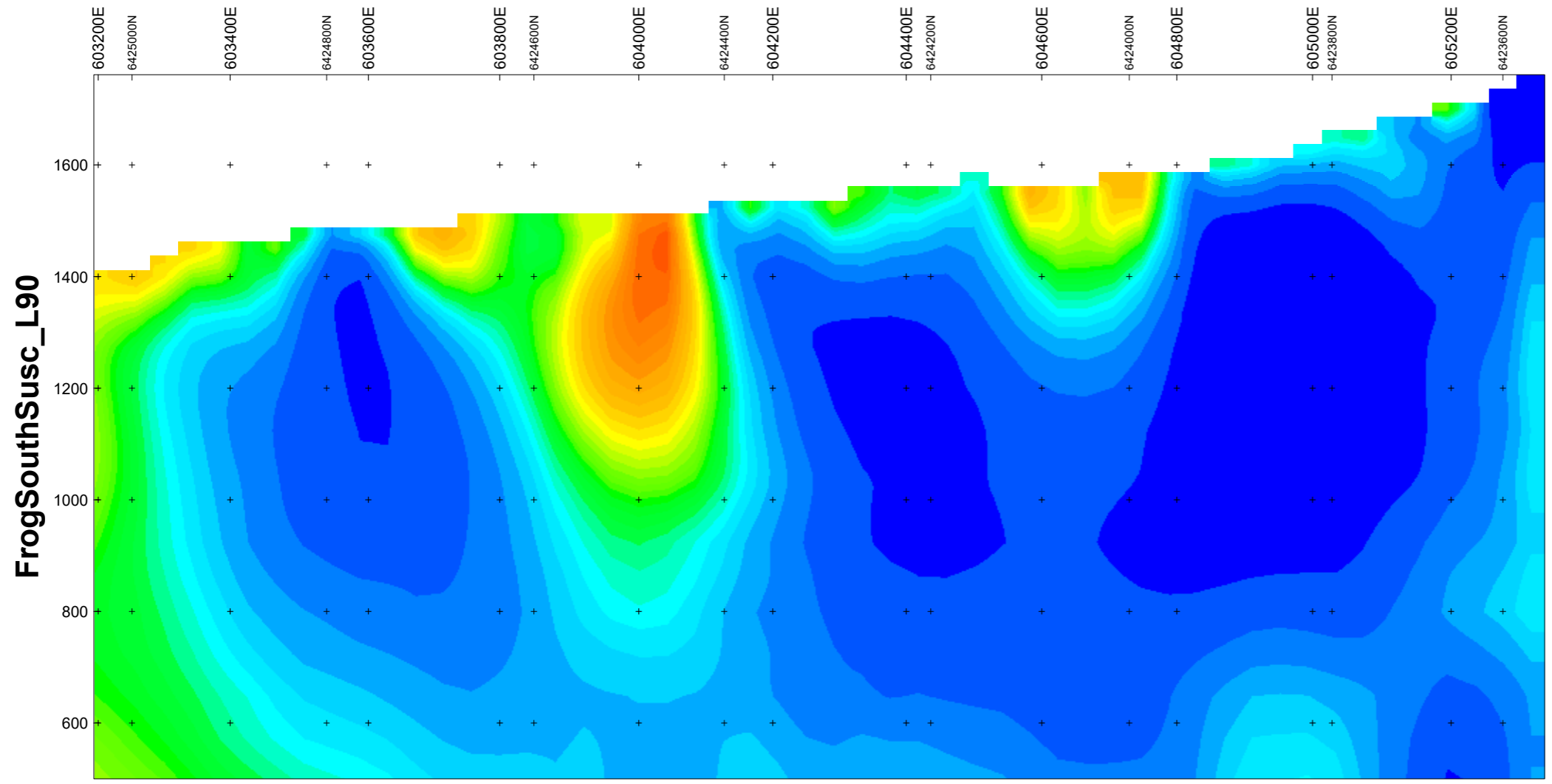
Section Trace Plan View



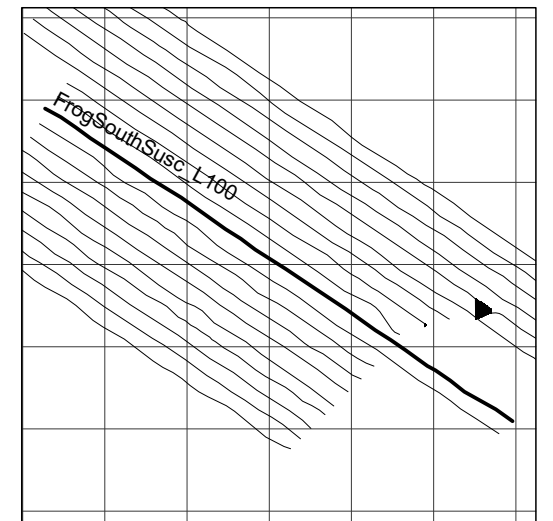
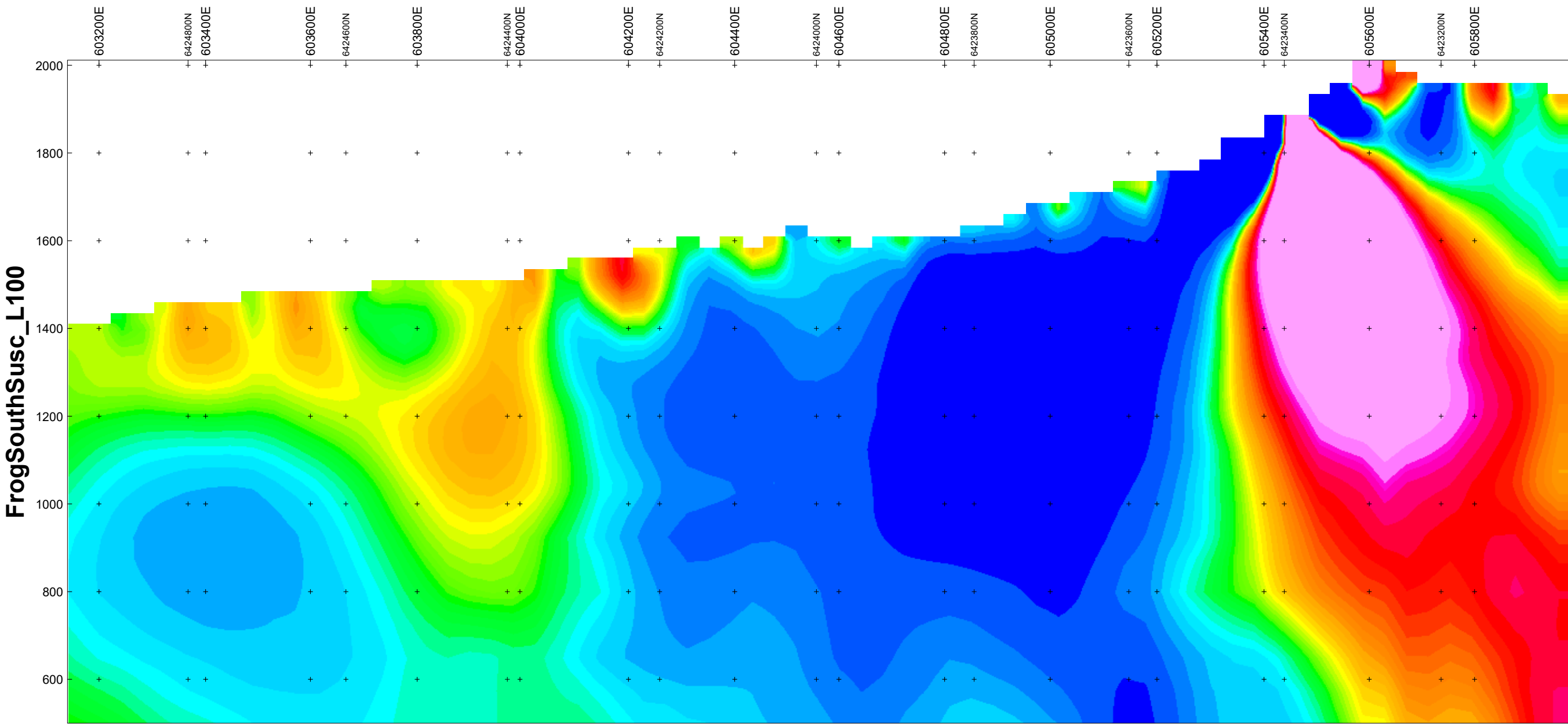
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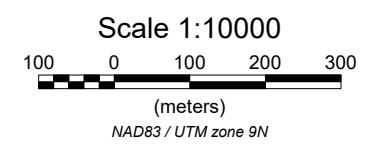
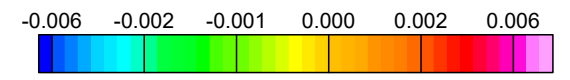
FROG SOUTH



3D MAGNETIC SUSCEPTIBILITY MODEL
 FROG SOUTH



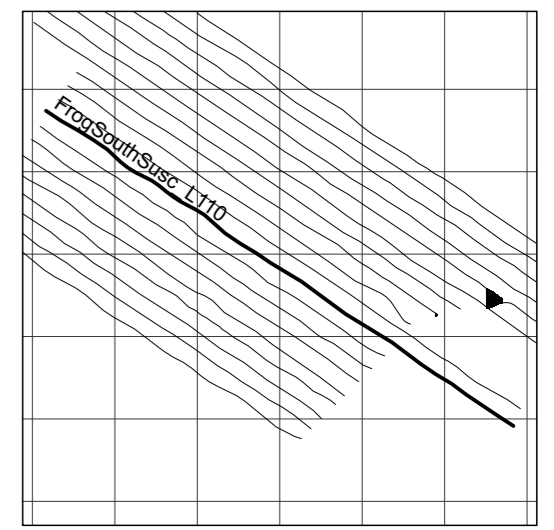
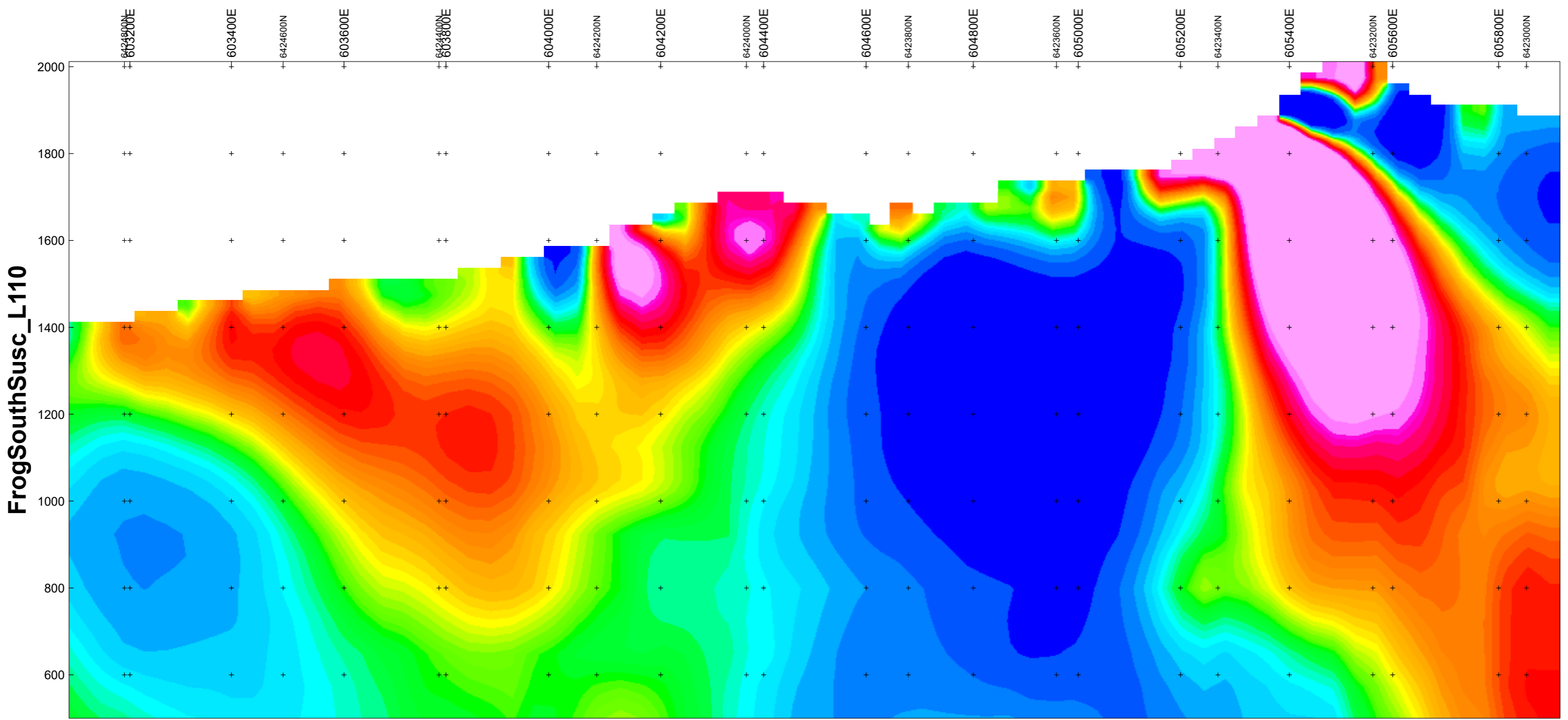
Section Trace Plan View



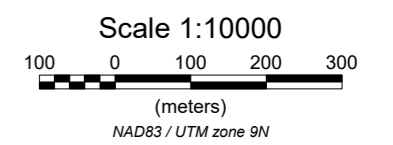
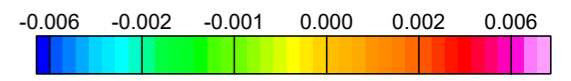
Vertical Exaggeration: 1

3D MAGNETIC SUSCEPTIBILITY MODEL

FROG SOUTH



Section Trace Plan View

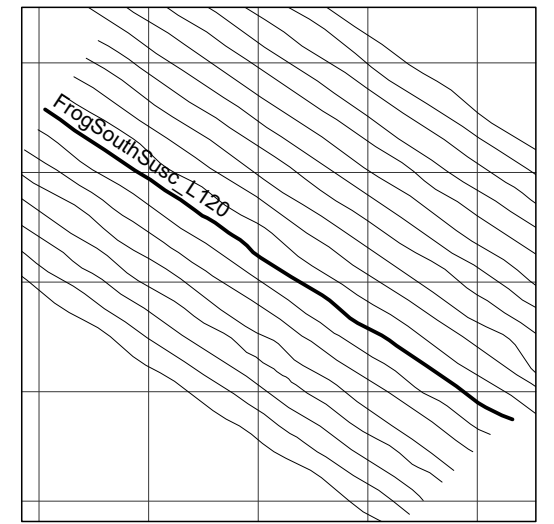
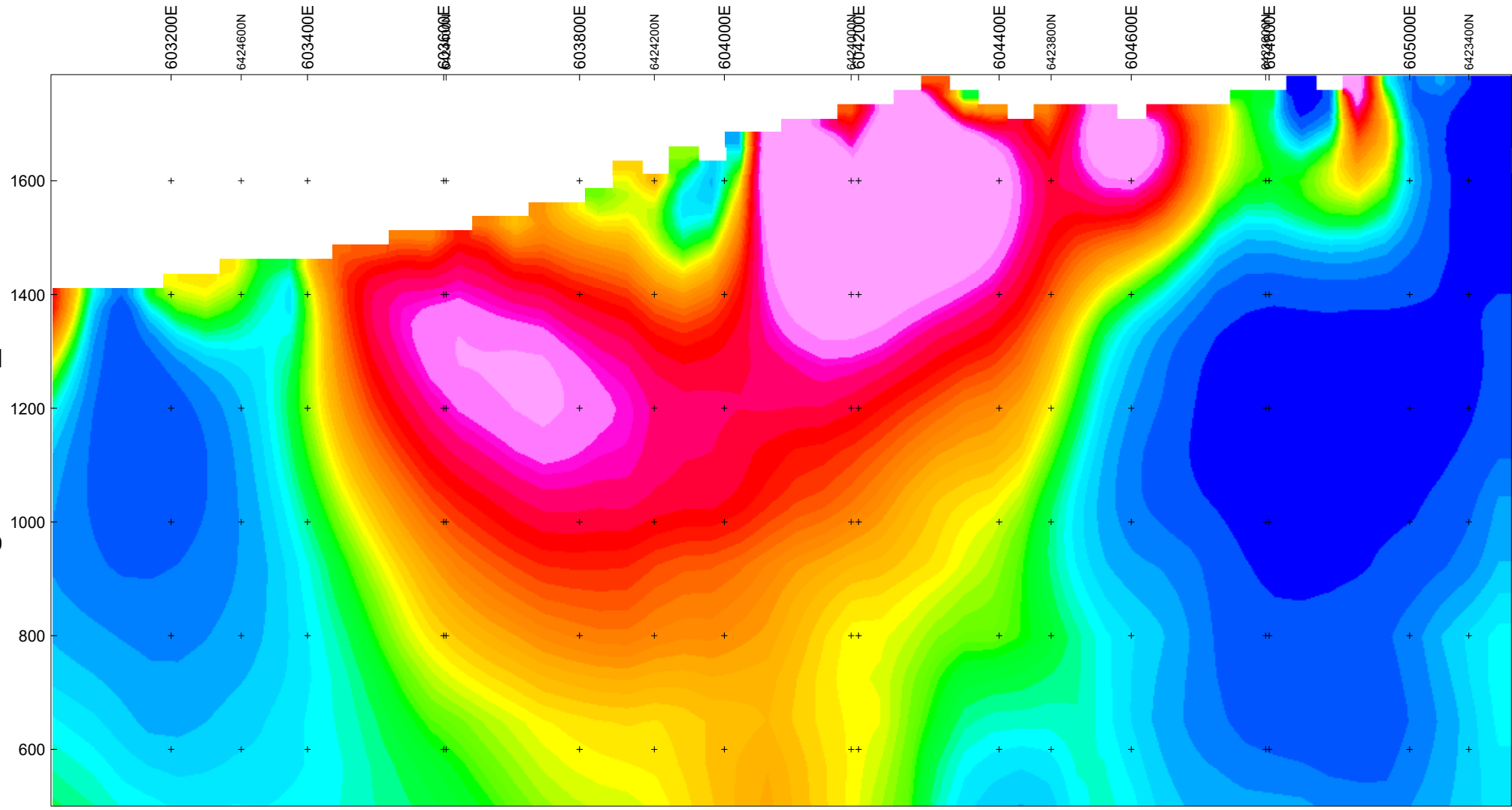


Vertical Exaggeration: 1

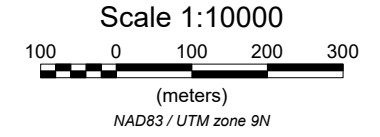
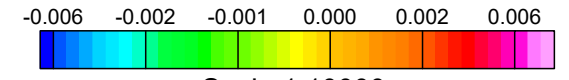
3D MAGNETIC SUSCEPTIBILITY MODEL

FROG SOUTH

FrogSouthSusc_L120



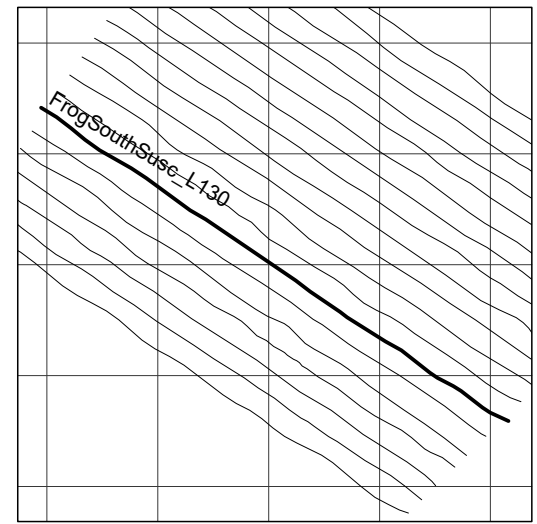
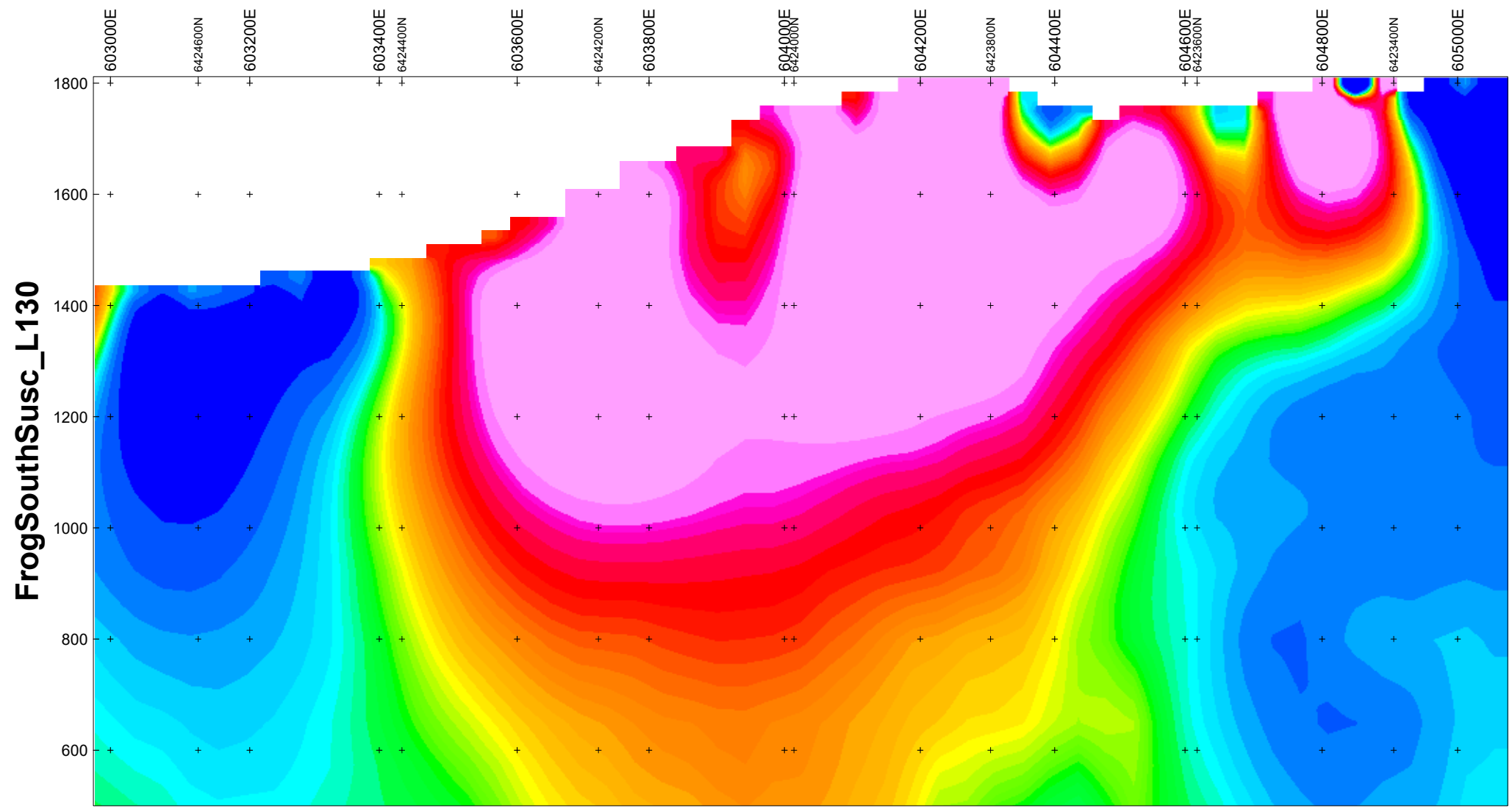
Section Trace Plan View



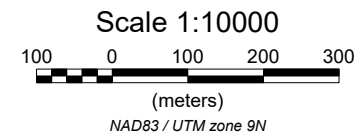
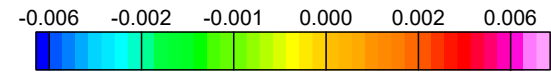
Vertical Exaggeration: 1

3D MAGNETIC SUSCEPTIBILITY MODEL

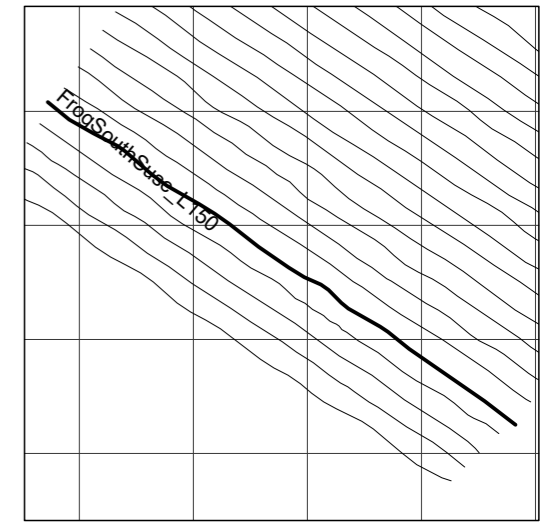
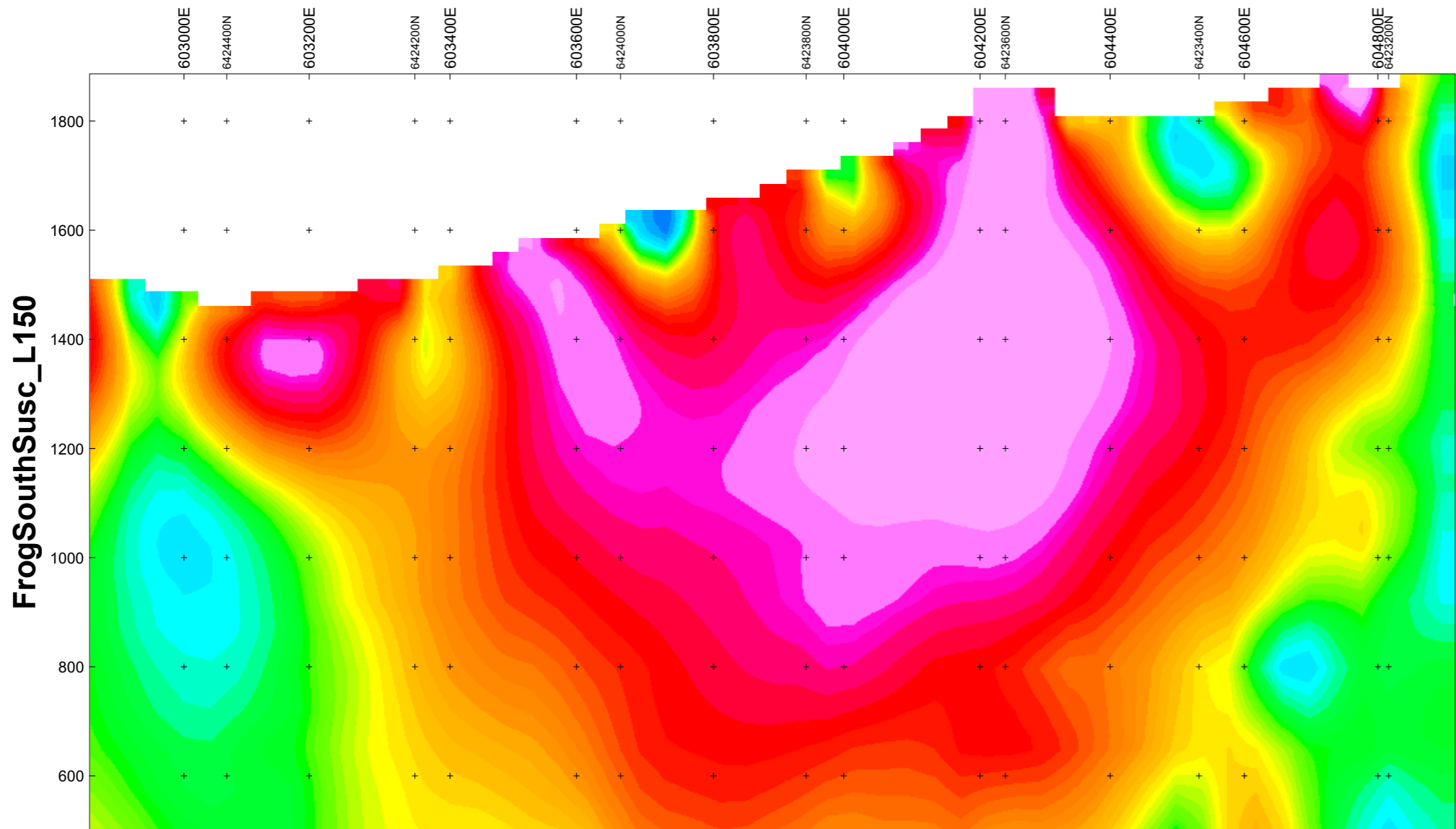
FROG SOUTH



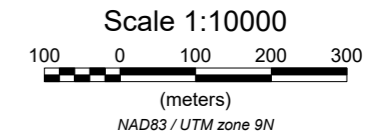
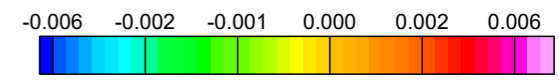
Section Trace Plan View



Vertical Exaggeration: 1



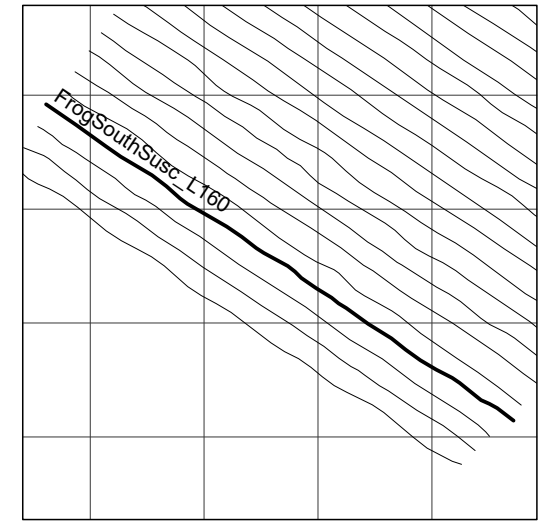
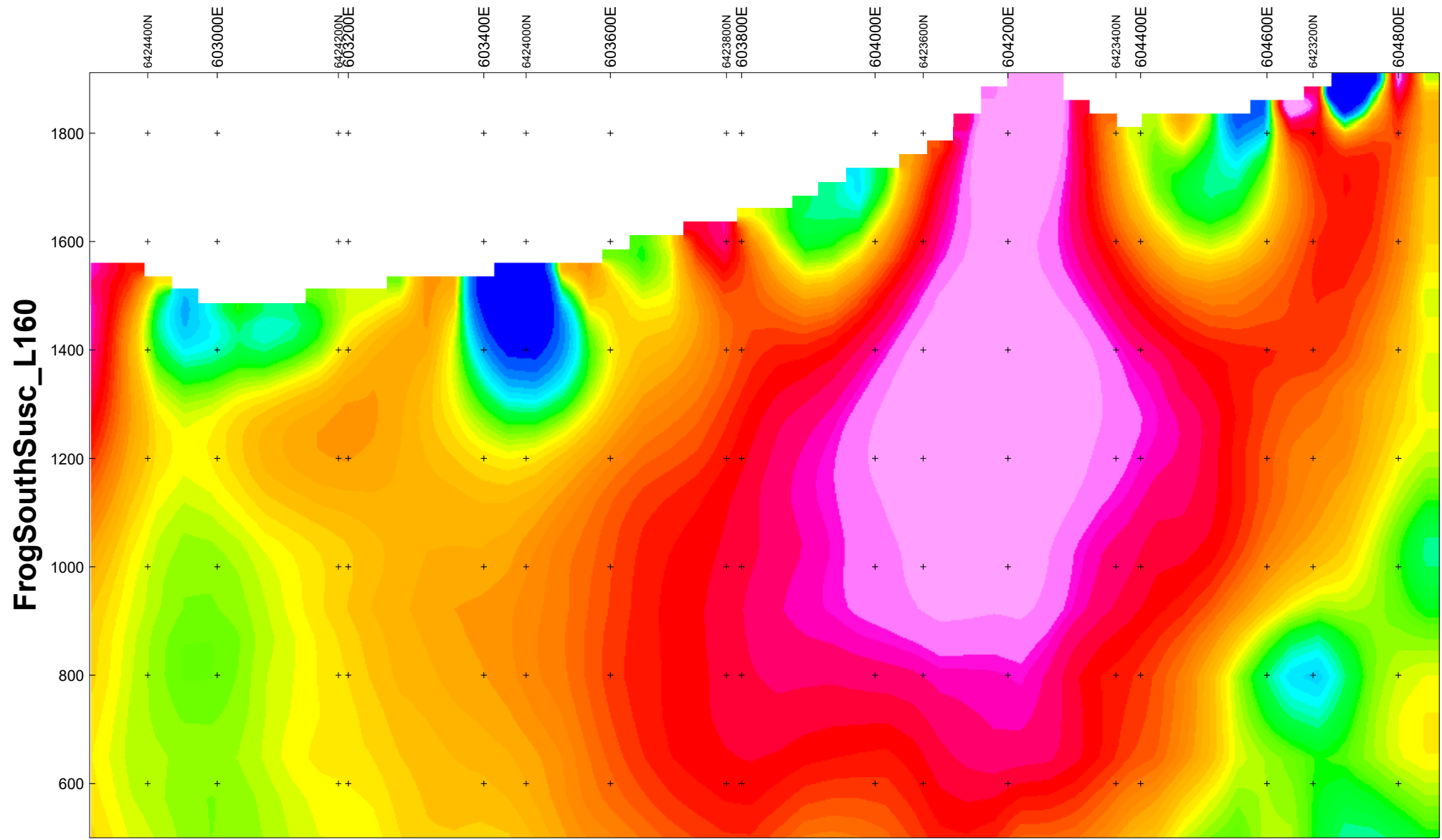
Section Trace Plan View



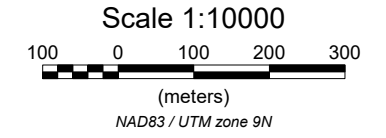
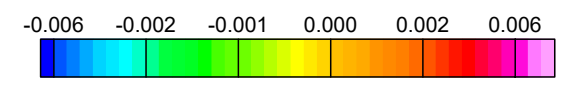
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3D MAGNETIC SUSCEPTIBILITY MODEL

FROG SOUTH



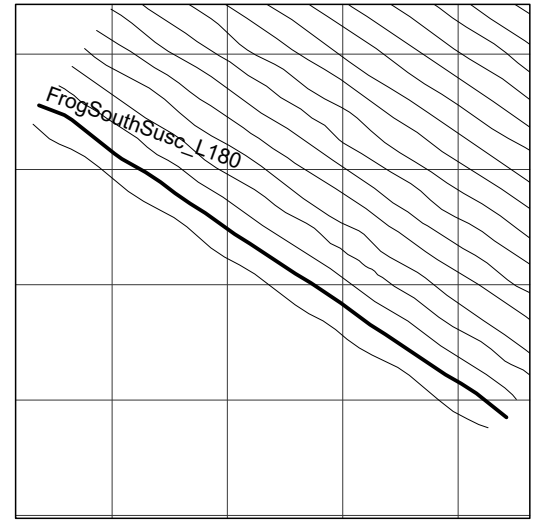
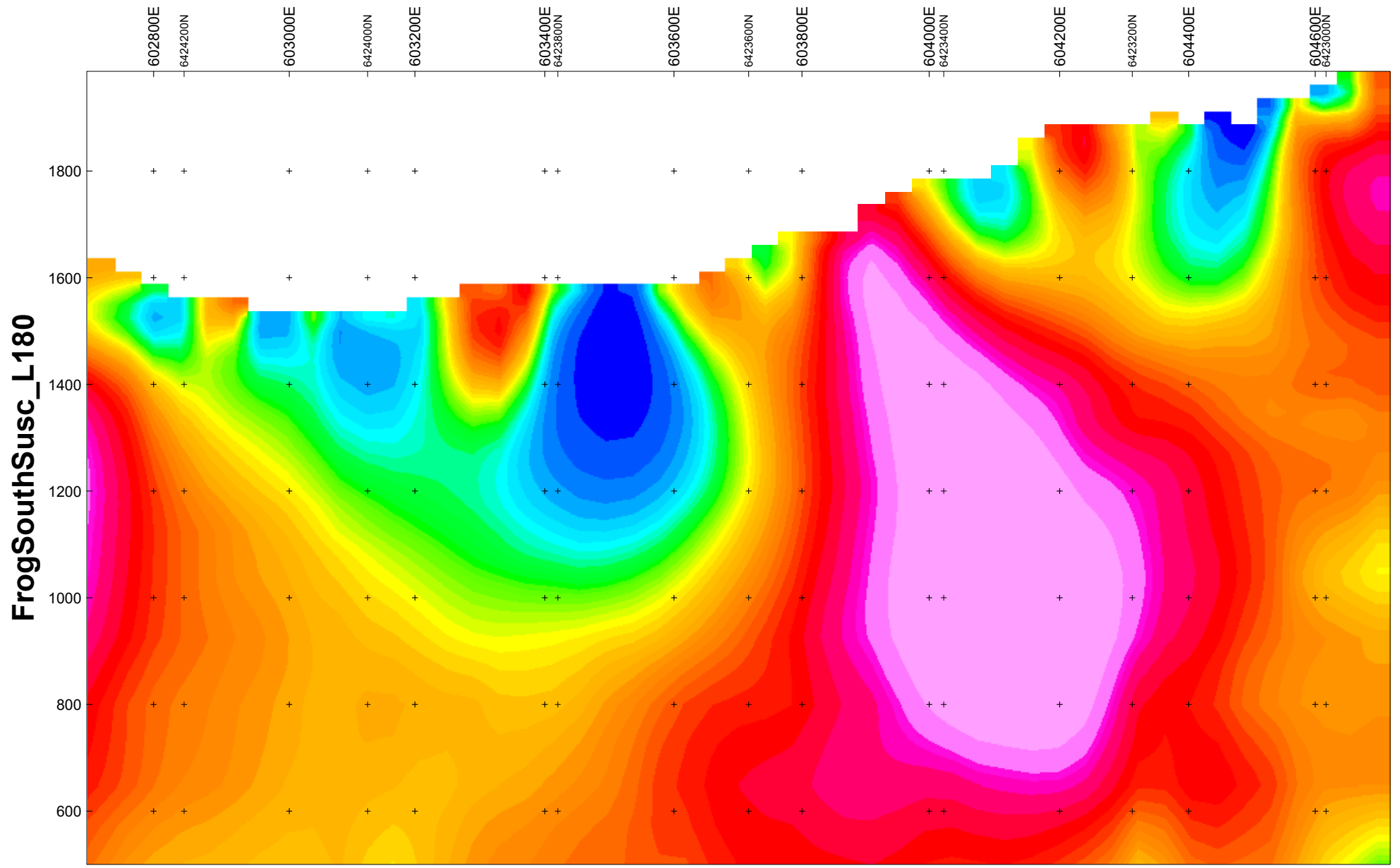
Section Trace Plan View



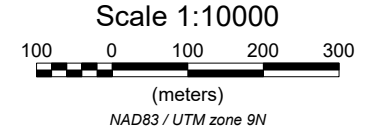
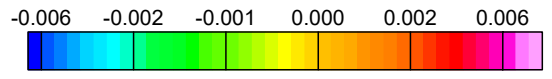
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3D MAGNETIC SUSCEPTIBILITY MODEL

FROG SOUTH



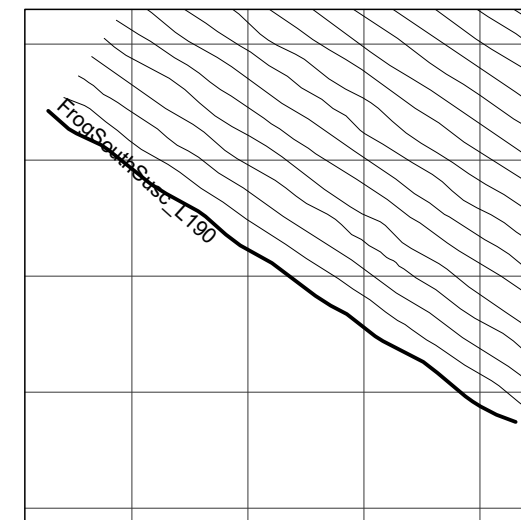
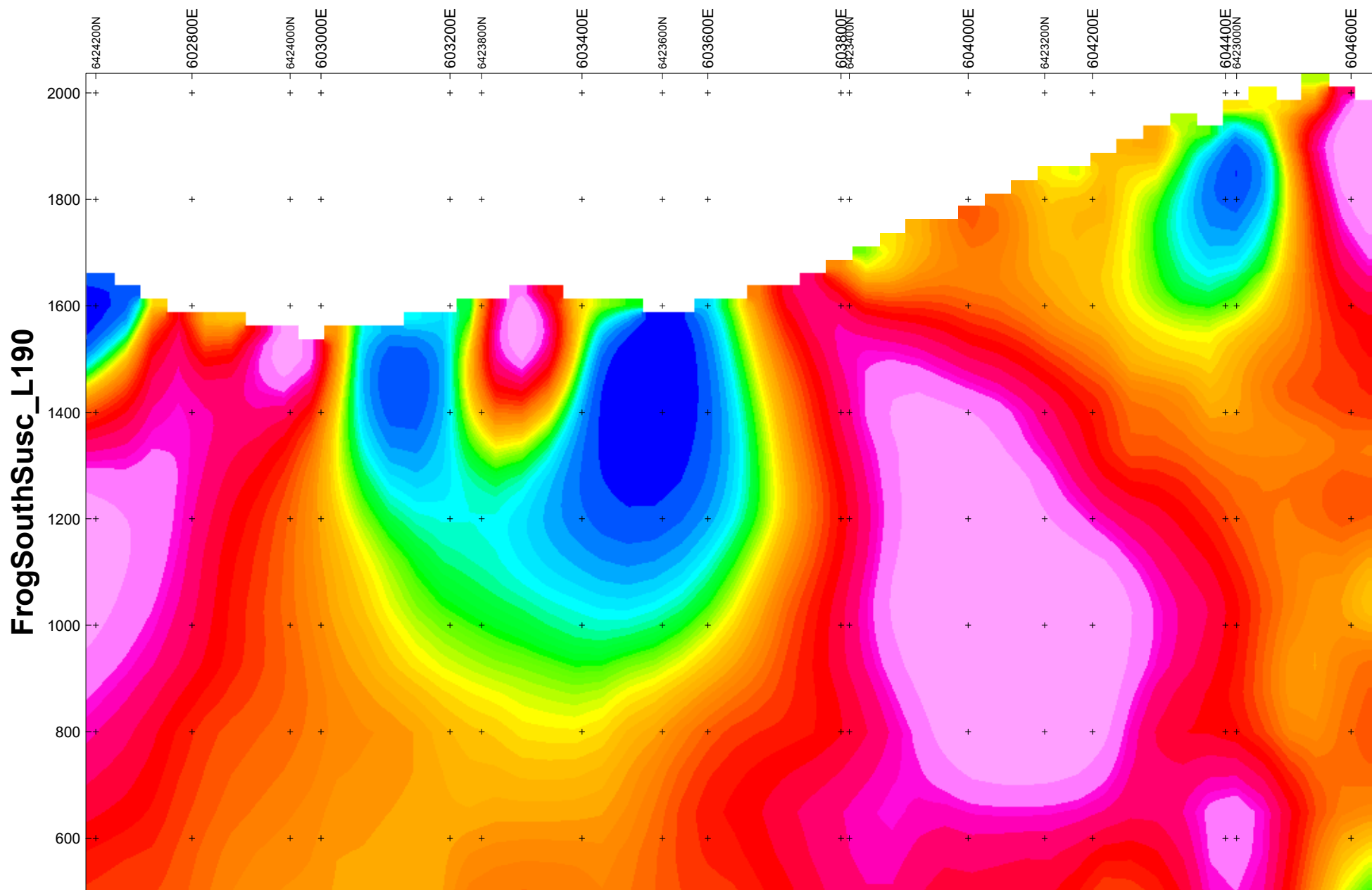
Section Trace Plan View



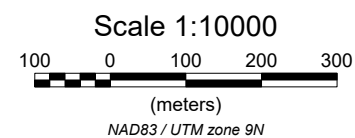
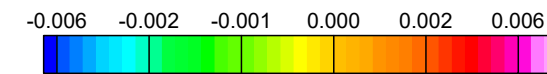
Vertical Exaggeration: 1

3D MAGNETIC SUSCEPTIBILITY MODEL

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Section Trace Plan View



Vertical Exaggeration: 1

3D MAGNETIC SUSCEPTIBILITY MODEL

FROG SOUTH