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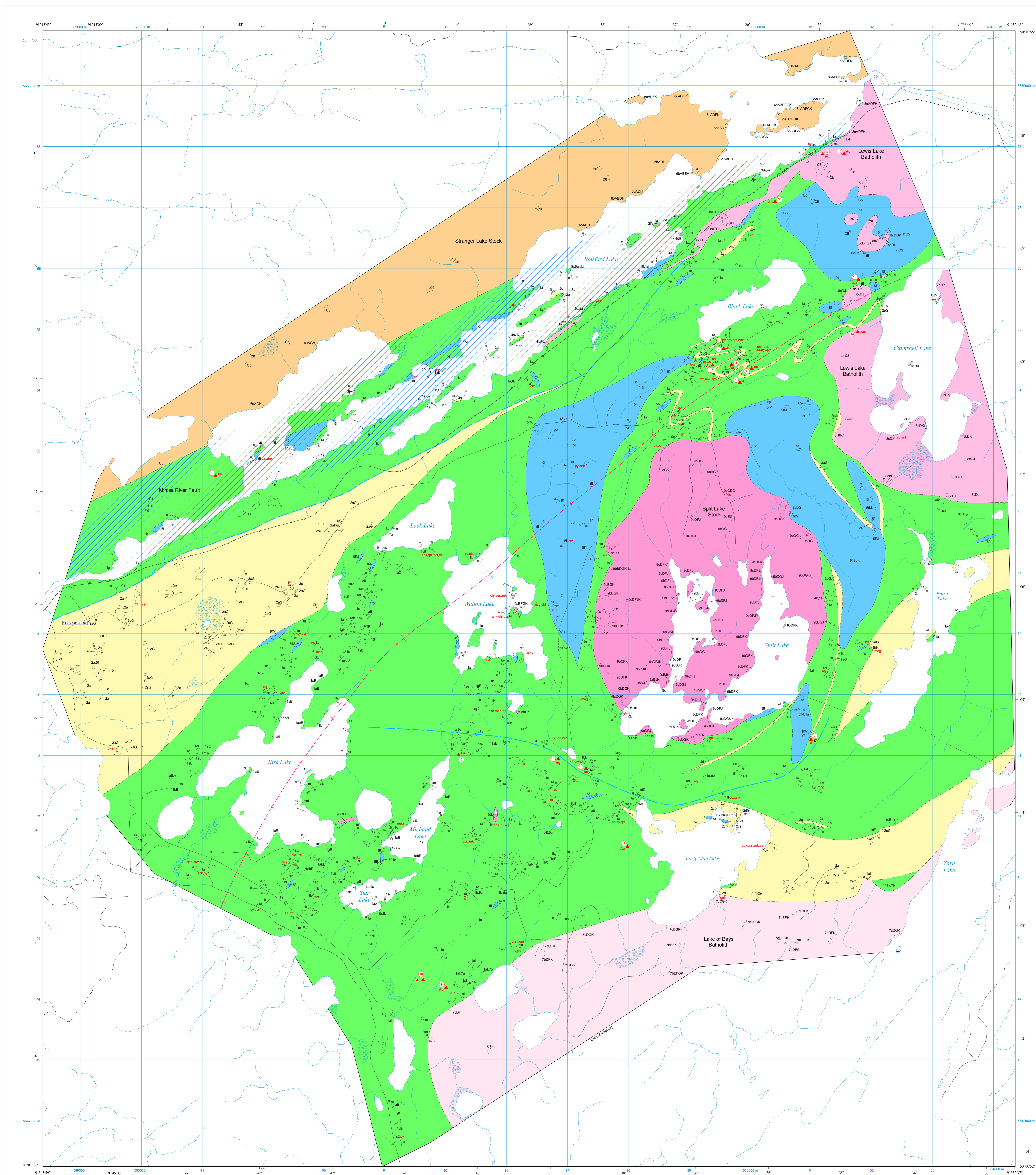
It is recommended that reference to the Content be made in the following form:

Lewis, D., Lintner, N. and Shilson, J. 2011. Precambrian geology of the Split Lake area, northwestern Ontario; Ontario Geological Survey, Preliminary Map P.3761, scale 1:20 000.

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LEGEND**

PHANEROZOIC

CENOZOIC

QUATERNARY

RECENT
Till, sand and gravel deposits

PLEISTOCENE
Clay, glacial and glaciofluvial deposits, sand, gravel, clay silt

UNCONFORMITY

PRECAMBRIAN

ARCHEAN

INTRUSIVE ROCKS

Unmetamorphosed Late Tectonic to Proterozoic Intermediate to Felsic Intrusive Rocks

9 Split Lake Stock

COMPOSITION
Ba: Granite
Bs: Gneiss
Bt: Tonalite
Bm: Monzonite

TEXTURE, MINERAL, FEATURES
A: Amphibole assemblage
C: Fine grained
D: Medium grained
E: Coarse grained
F: Biotite
G: Hornblende
H: Hornblende and plagioclase porphyritic
I: Plagioclase porphyritic
J: Amphibole porphyritic
K: Epigranular
L: Line

INTRUSIVE CONTACT

Unmetamorphosed Late Tectonic to Proterozoic Intermediate to Felsic Intrusive Rocks

8 Lewis Lake Batholith

COMPOSITION
Ba: Granite
Bs: Gneiss
Bt: Tonalite

TEXTURE, MINERAL, FEATURES
A: Amphibole assemblage
C: Fine grained
D: Medium grained
E: Coarse grained
F: Biotite
G: Hornblende
H: Hornblende and plagioclase porphyritic
I: Plagioclase porphyritic
J: Amphibole porphyritic
K: Epigranular
L: Line

INTRUSIVE CONTACT

Unmetamorphosed Late Tectonic to Proterozoic Intermediate to Felsic Intrusive Rocks

7 Lake of Bays Batholith

COMPOSITION
Ba: Granite
Bs: Gneiss
Bt: Tonalite

TEXTURE, MINERAL, FEATURES
A: Amphibole assemblage
C: Fine grained
D: Medium grained
E: Coarse grained
F: Biotite
G: Hornblende
H: Hornblende and plagioclase porphyritic
I: Plagioclase porphyritic
J: Amphibole porphyritic
K: Epigranular
L: Line

INTRUSIVE CONTACT

Proterozoic Metamorphosed Intermediate to Felsic Intrusive Rocks

6 Stranger Lake Stock

COMPOSITION
Ba: Granite
Bs: Gneiss
Bt: Tonalite
Bm: Monzonite
Bc: Alkali feldspar granite

TEXTURE, MINERAL, FEATURES
A: Amphibole assemblage
C: Fine grained
D: Medium grained
E: Coarse grained
F: Biotite
G: Hornblende
H: Hornblende and plagioclase porphyritic
I: Plagioclase porphyritic
J: Amphibole porphyritic
K: Epigranular
L: Line

TECTONIC CONTACT

5 Metamorphosed Synvolcanic to Proterozoic Metamorphosed Intermediate to Felsic Intrusive Rocks

COMPOSITION
Ba: Granite

TEXTURE, MINERAL, FEATURES
A: Amphibole assemblage
C: Fine grained
D: Medium grained
E: Coarse grained
F: Biotite
G: Hornblende
H: Hornblende and plagioclase porphyritic
I: Plagioclase porphyritic
J: Amphibole porphyritic
K: Epigranular
L: Line

INTRUSIVE CONTACT

4 Volcanic and Sedimentary Rocks

3 Chert Metasedimentary Rocks

2 Felsic Metasedimentary Rocks

1 Meta Metasedimentary Rocks

LITHOFACIES
L1: Massive flow
L2: Flow with low to moderate, flow top breccia
L3: Hydroclastic breccia
L4: Clay-grained flow
L5: Tuft
L6: Tuft breccia

TEXTURE, MINERAL, FEATURES
A: Amphibole
B: Hornblende
C: Plagioclase
D: Amphibole and high calcic plagioclase
E: Amphibole
F: Amphibole

INTRUSIVE CONTACT

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ABBREVIATIONS

SOURCES OF INFORMATION

CREDITS

ACKNOWLEDGEMENTS

TABLE 1: Mineral occurrences in the Split Lake area

Map No.	Deposit Name	Commodity	Status	MDI Number	Easting	Northing
1	Black Lake - No. 1 vein	Au, Ag	Occurrence	JOSE0004	60082	55623
2	Black Lake - No. 2 vein	Au	Occurrence	JOSE0005	60082	55636
3	Black Lake - No. 3 vein	Au	Discretionary Occurrence	JOSE0007	60085	556416
4	Black Lake - No. 4 vein	Au	Discretionary Occurrence	JOSE0008	60089	556478
5	Black Lake - No. 4 Shouling	Au	Discretionary Occurrence	JOSE0009	60043	556448
6	New Mineium	Au	Occurrence	JOSE0027	60030	556170
7	Split Lake	Au	Discretionary Occurrence	JOSE0003	60111	556468
8	Boatline Lake Iron Formation	Fe	Occurrence	JOSE0002	59175	556362
9	Alkovee Buffer Zone 3	Au	Occurrence	JOSE0009	59483	556423
10	Alkovee Buffer Zone 9	Au	Occurrence	JOSE0010	59181	556412
11	Alkovee Buffer Zone 10	Au	Occurrence	JOSE0004	59132	556477
12	Alkovee	Au	Project	JOSE0006	59179	556467
13	Alkovee Iron Vein	Au, Cu, Pb, Zn	Occurrence	JOSE0008	59179	556467
14	Clanville Lake	Au	Discretionary Occurrence	JOSE0002	60178	556486
15	Black Lake	Au	Occurrence	JOSE0006	60178	556486
16	Black Lake	Au	Discretionary Occurrence	JOSE0004	60047	556123
17	Roscoe North Vein - West	Au	Discretionary Occurrence	JOSE0010	60196	556970
18	Roscoe North Vein - East	Au	Discretionary Occurrence	JOSE0011	60142	556906

TABLE 2: Uranium (ppm) and Thorium (ppm) concentrations in the Split Lake area

Map No.	Rock Type	Easting	Northing	U (ppm)	Th (ppm)	Age (Ma)	Interpretation
1	Felsic volcanic	595137	555337	UPH ID-T185	273.04 ± 0.9	Age of felsic volcanic	
2	Felsic volcanic	59796	55695	UPH ID-T185	274.8 ± 0.5	Age of felsic volcanic	

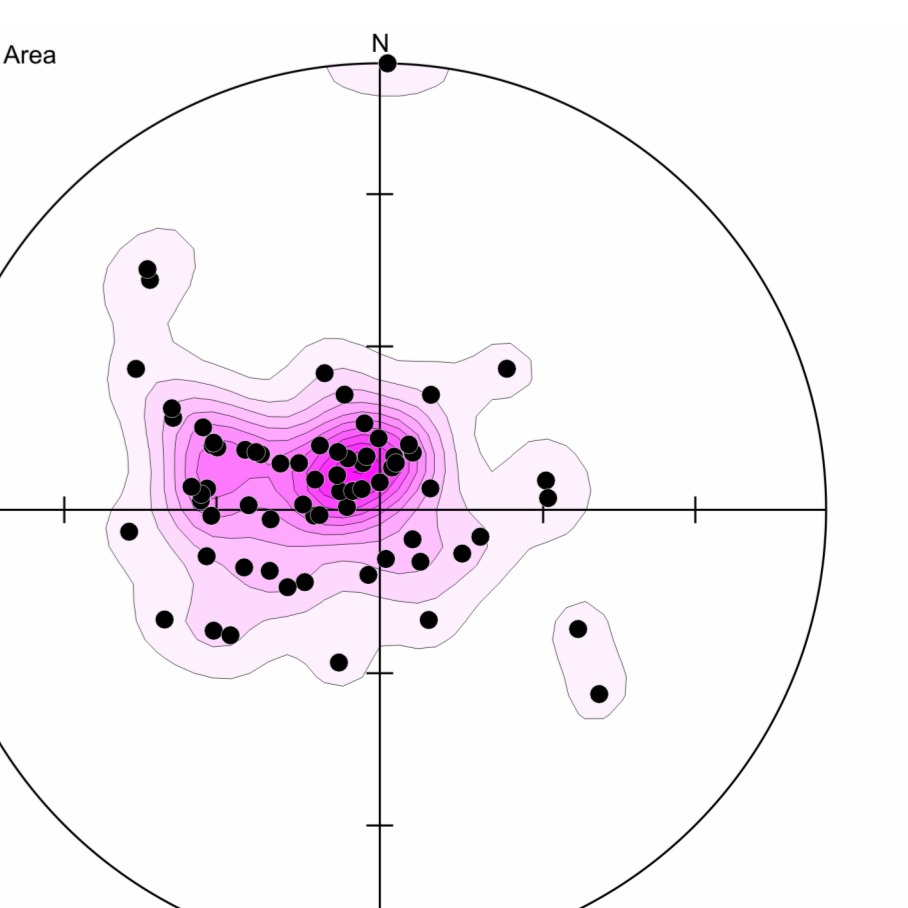
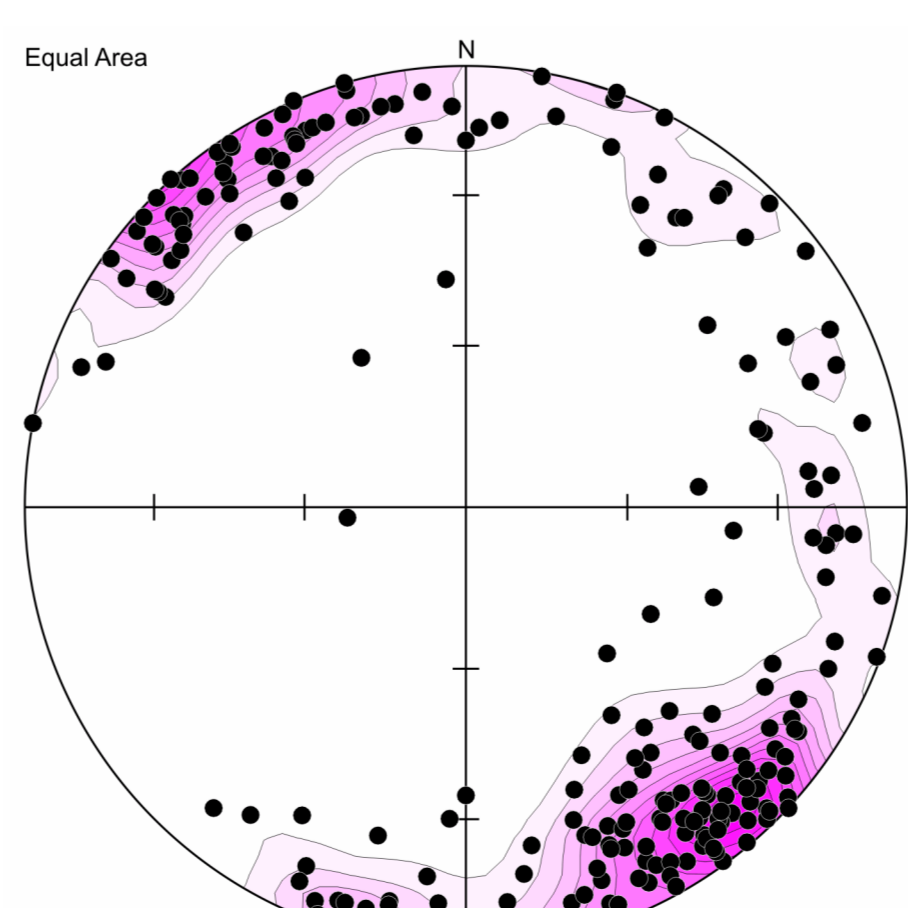
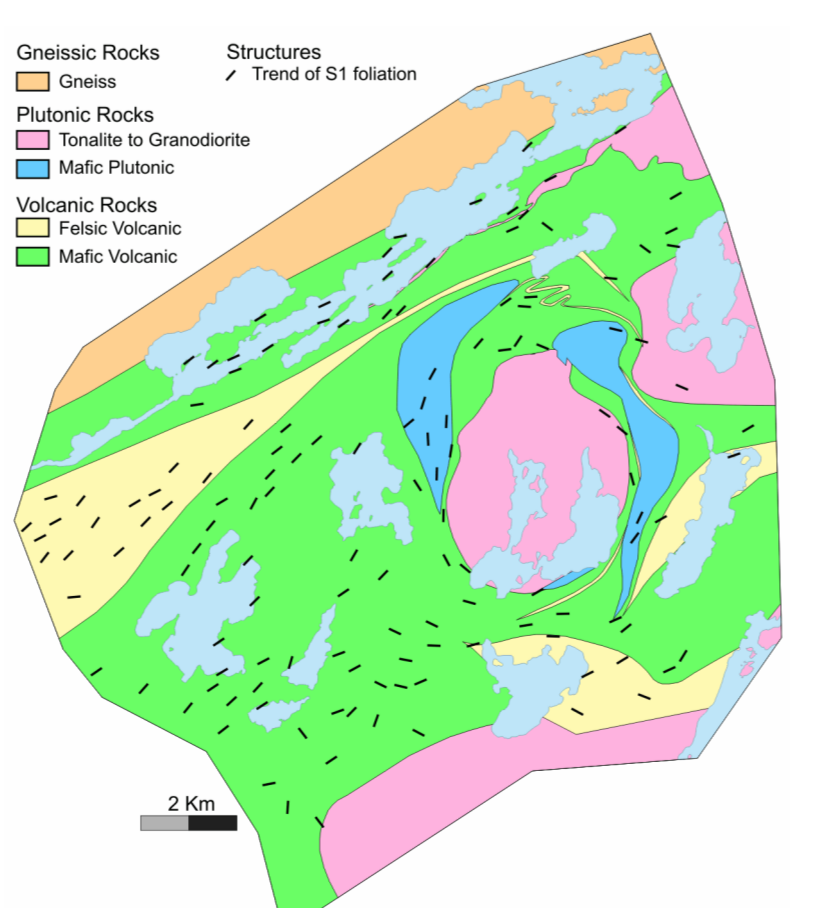
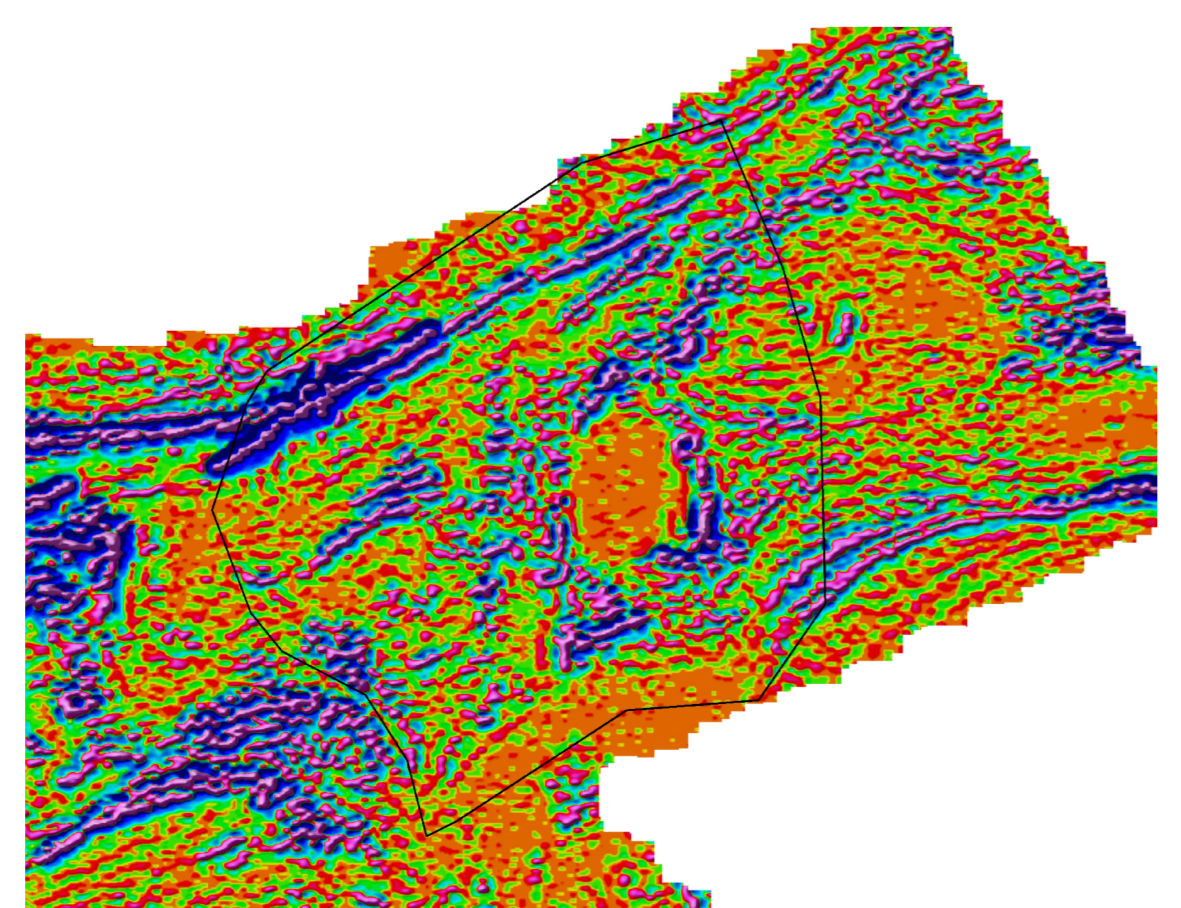
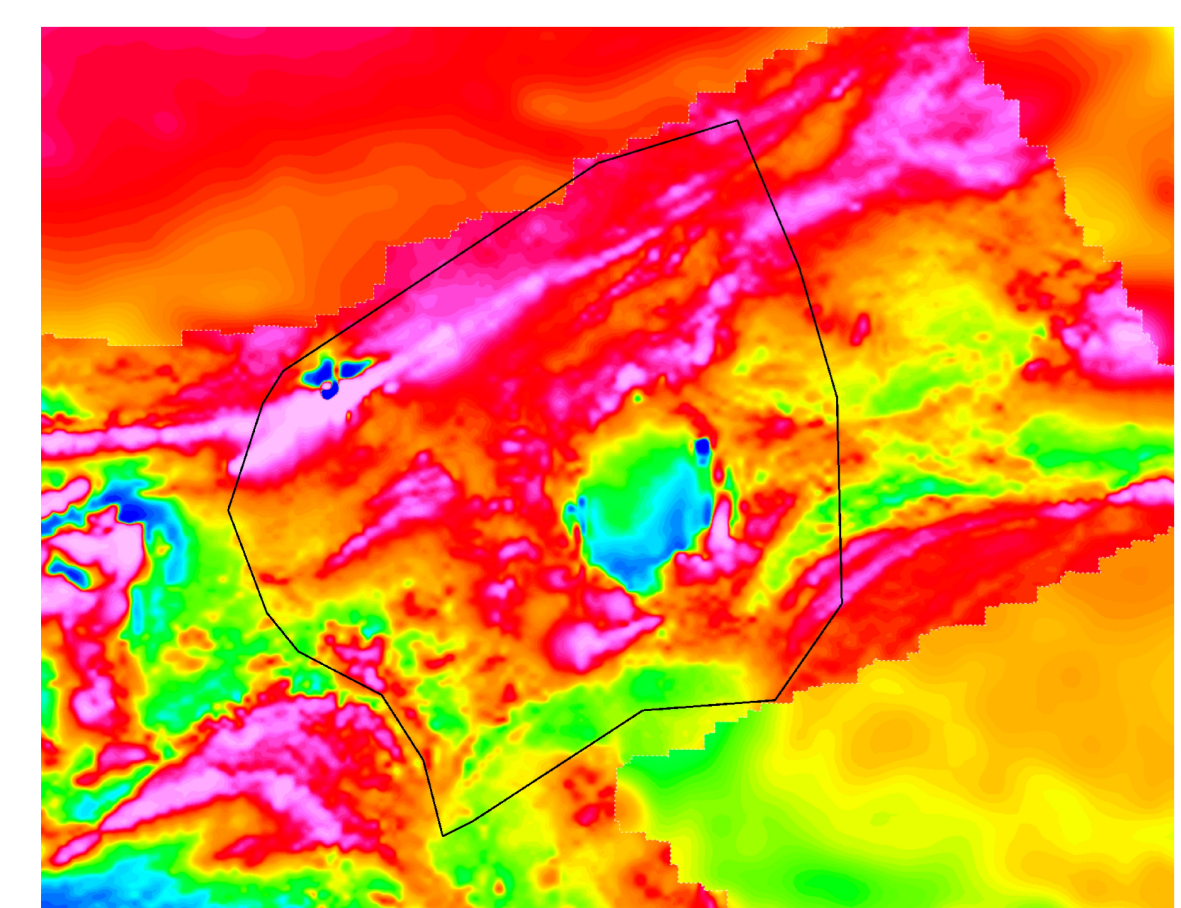


Figure 2. Map of the total magnetic field of the Split Lake area. Outline of mapped area is shown in black.

Figure 3. Second vertical derivative of total magnetic field map of the Split Lake area. Outline of mapped area is shown in black.

Figure 4. Regional map of the Split Lake area showing the trend of the S1 foliation.

Figure 5. Equal area stereonet diagram of the S1 foliation in the Split Lake area. Foliation zone measurements are represented on the diagram as poles to the plane. The number of measurements is represented in the lower right corner.

Figure 6. Regional map of the Split Lake area showing the trend of the L1 lineation.

Figure 7. Equal area stereonet diagram of the L1 lineation in the Split Lake area. The number of measurements is represented in the lower right corner.