

DOCUMENT

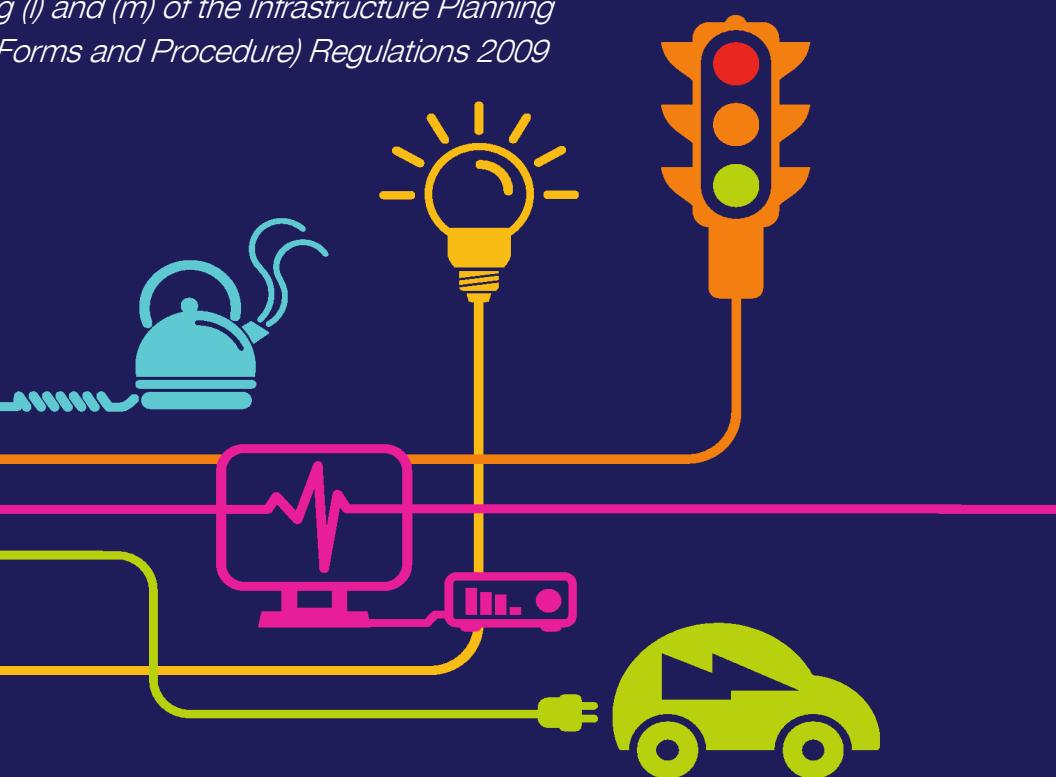
5.10.2.2

(Part 7 of 8)

Geophysical Survey Report Chapter 10 – Appendix 2

National Grid (North Wales Connection Project)

*Regulation 5(2)(a) including (l) and (m) of the Infrastructure Planning
(Applications: Prescribed Forms and Procedure) Regulations 2009*





North Wales Connection Project

Volume 5

Document 5.10.2.2 Appendix 10.2

Geophysical Survey Part 7

National Grid
National Grid House
Warwick Technology Park
Gallows Hill
Warwick
CV34 6DA

Final September 2018

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North Wales Connection Project, Anglesey and Gwynedd, Wales

Section E: Ceint to Afon Braint

Areas 26 - 10

Figures 209 - 253

Client: National Grid





26

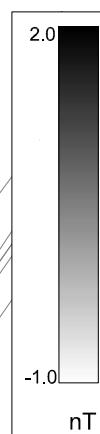
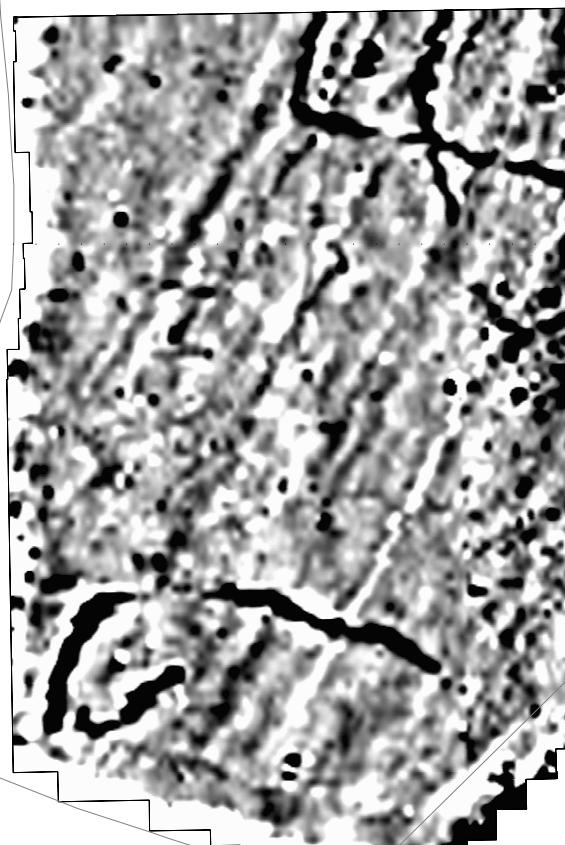


Fig. 209. Processed greyscale magnetometer data;
survey area 26 (1:1000 @ A4)



26

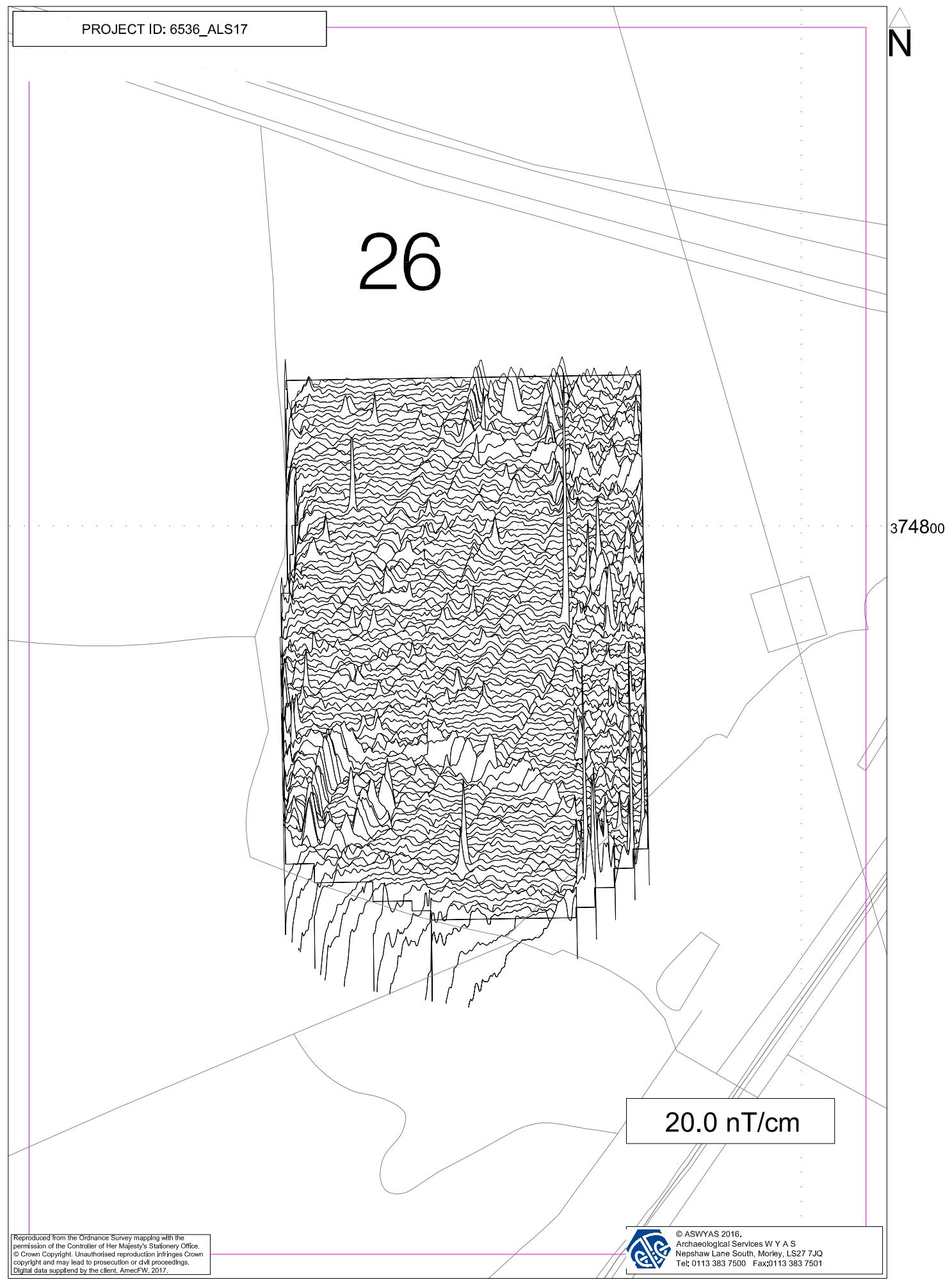


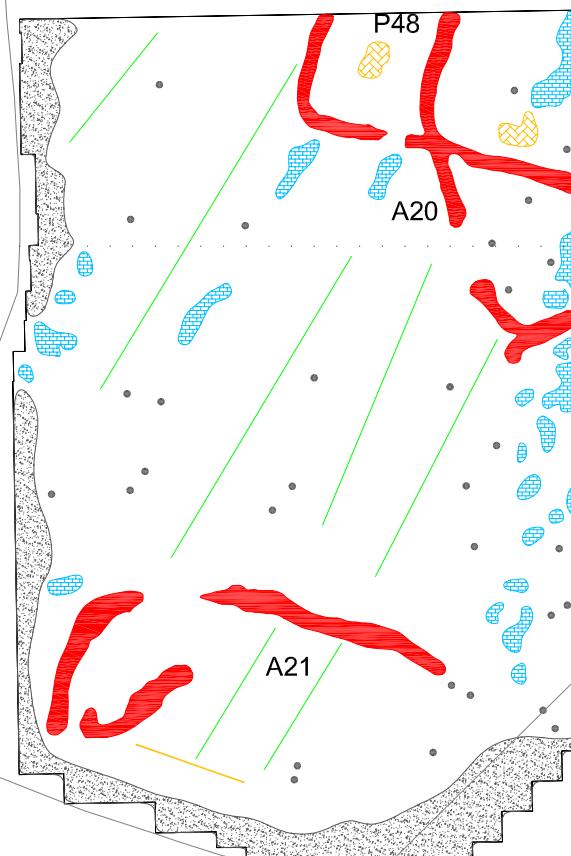
Fig. 210. XY trace plot of minimally processed magnetometer data;
survey area 26 (1:1000 @ A4)

0 30m



26

TYPE OF ANOMALY		INTERPRETATION
•	DIPOLAR ISOLATED	FERROUS MATERIAL
■	MAGNETIC DISTURBANCE	FERROUS MATERIAL
—	LINEAR TREND	AGRICULTURAL
▨	MAGNETIC ENHANCEMENT	GEOLOGY
▨	MAGNETIC ENHANCEMENT	ARCHAEOLOGY?
▨	MAGNETIC ENHANCEMENT	ARCHAEOLOGY - DITCH



374800

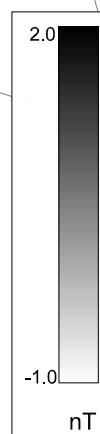
248800

Fig. 211. Interpretation of magnetometer data; survey area 26 (1:1000 @ A4) 0 30m



25

374400



248800

0

30m

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*Fig. 212. Processed greyscale magnetometer data;
survey area 25 (1:1000 @ A4)*



25

374400

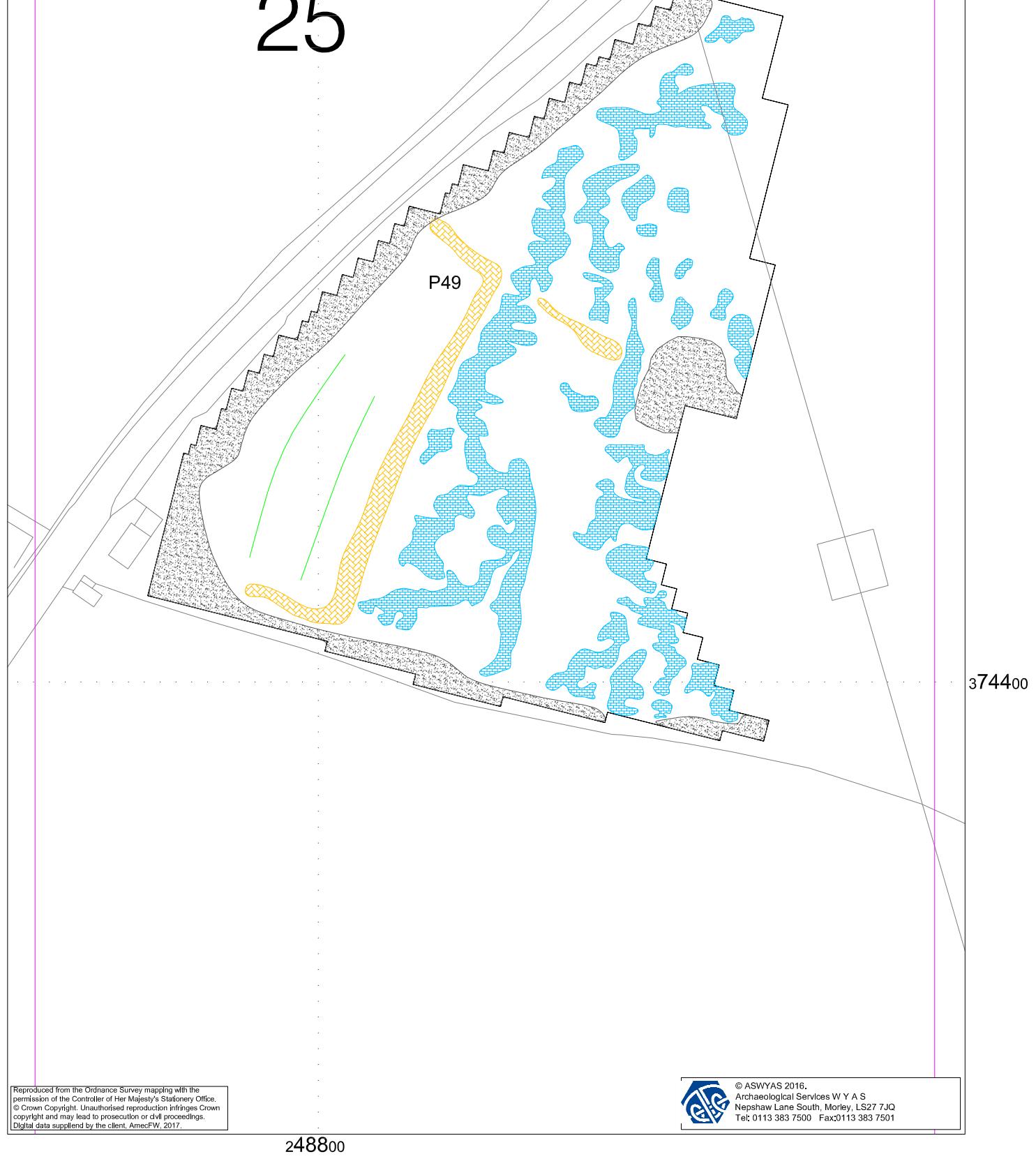
20.0 nT/cm

*Fig. 213. XY trace plot of minimally processed magnetometer data;
survey area 25 (1:1000 @ A4)*

TYPE OF ANOMALY		INTERPRETATION
•	DIPOLAR ISOLATED	FERROUS MATERIAL
●	MAGNETIC DISTURBANCE	FERROUS MATERIAL
—	LINEAR TREND	AGRICULTURAL
■	MAGNETIC ENHANCEMENT	GEOLOGY
■	MAGNETIC ENHANCEMENT	ARCHAEOLOGY?

N

25

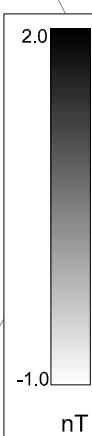


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N

24

374000



249000

0

30m

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Fig. 215. Processed greyscale magnetometer data;
survey area 24 (1:1000 @ A4)

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N

24

374000

20.0 nT/cm

249000

0

30m

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Fig. 216. XY trace plot of minimally processed magnetometer data;
survey area 24 (1:1000 @ A4)

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TYPE OF ANOMALY		INTERPRETATION
●	DIPOLAR ISOLATED	FERROUS MATERIAL
●	MAGNETIC DISTURBANCE	FERROUS MATERIAL
—	LINEAR TREND	AGRICULTURAL
■	MAGNETIC ENHANCEMENT	GEOLOGY

N

24

374000

249000

0

30m

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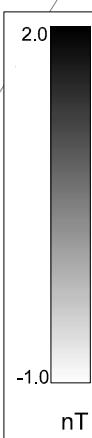
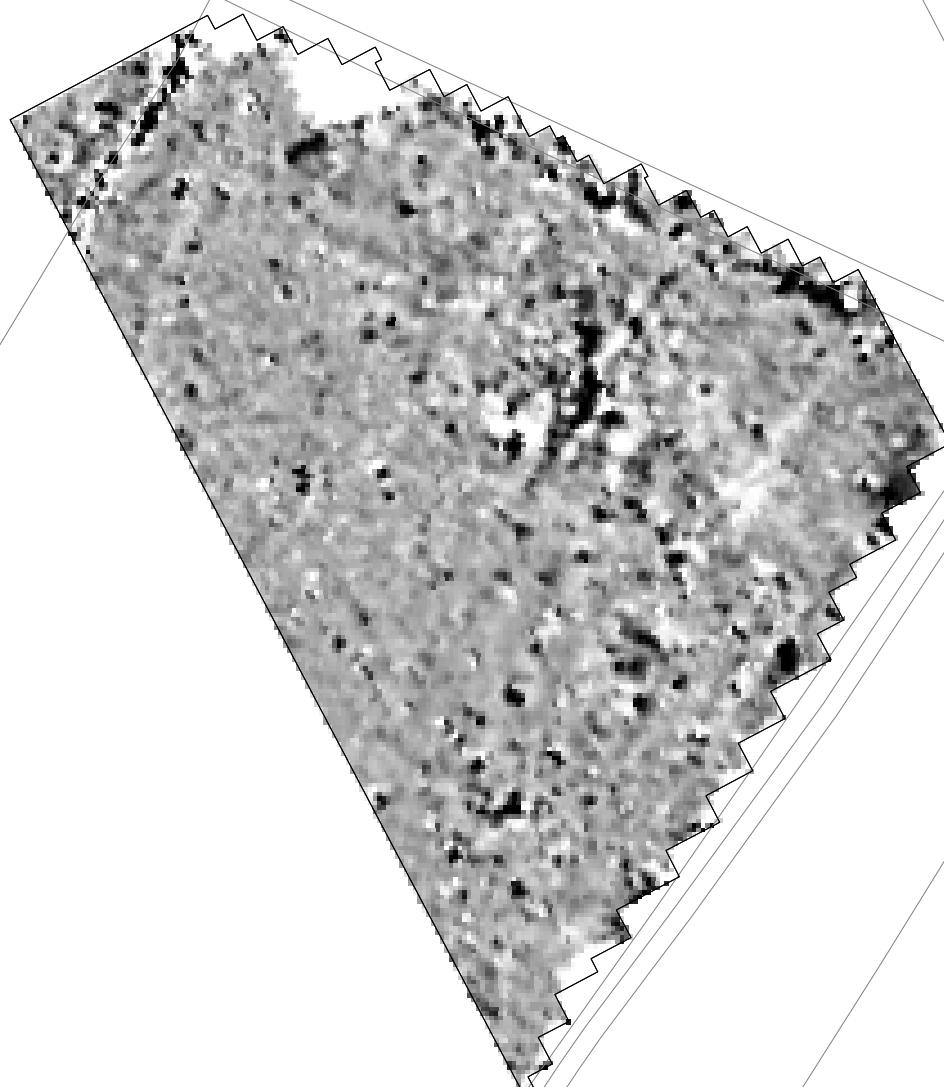
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Fig. 217. Interpretation of magnetometer data; survey area 24 (1:1000 @ A4)



373800

23



373600

*Fig. 218. Processed greyscale magnetometer data;
survey area 23 (1:1000 @ A4)*

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373800

23

20.0 nT/cm

373600

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249000

Fig. 219. XY trace plot of minimally processed magnetometer data;
survey area 23 (1:1000 @ A4)

0

30m

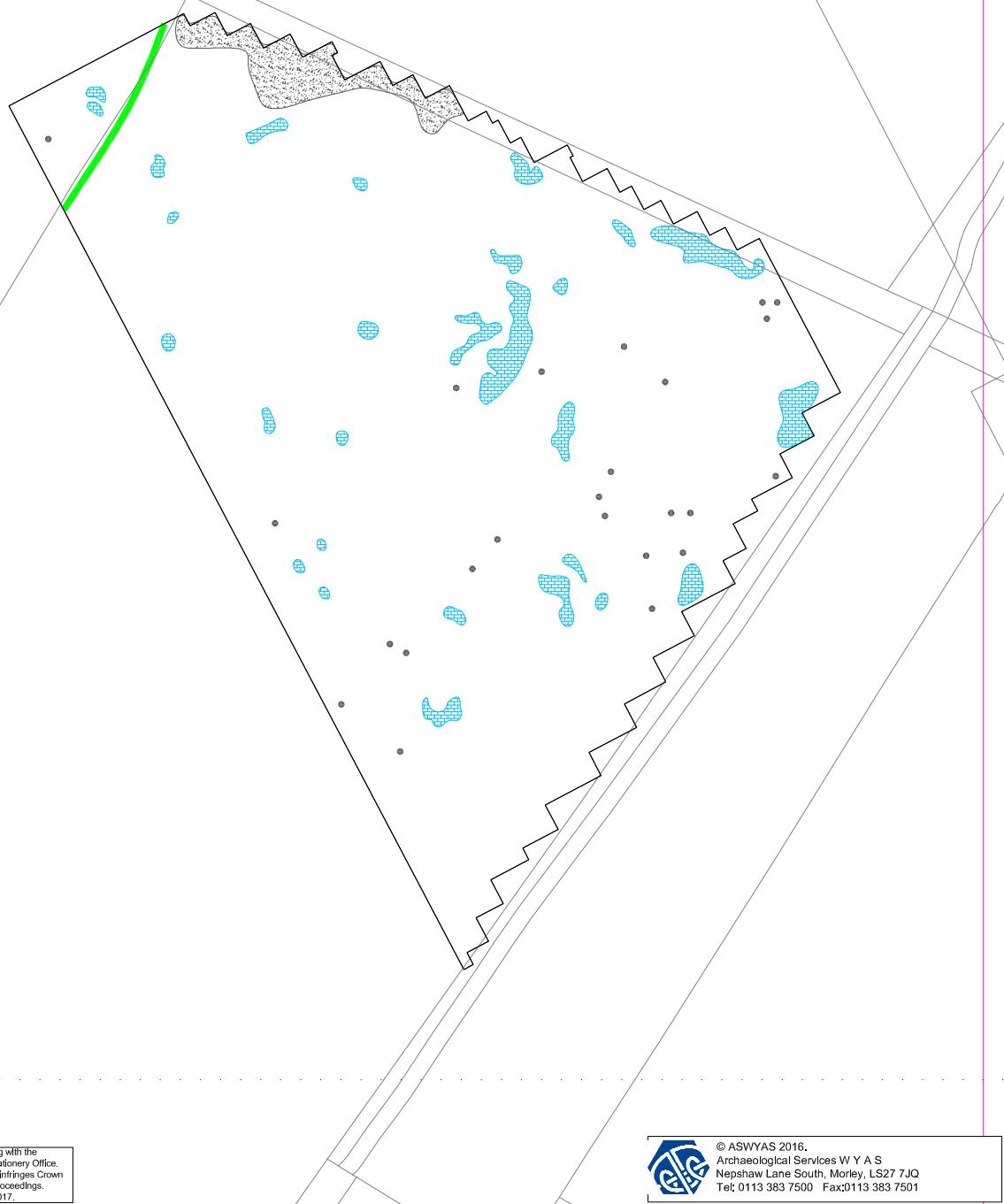
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TYPE OF ANOMALY		INTERPRETATION
•	DIPOLAR ISOLATED	FERROUS MATERIAL
●	MAGNETIC DISTURBANCE	FERROUS MATERIAL
—	LINEAR TREND	AGRICULTURAL
■	MAGNETIC ENHANCEMENT	GEOLOGY

N

373800

23



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249000

Fig. 220. Interpretation of magnetometer data; survey area 23 (1:1000 @ A4) 0 30m



Fig. 221. Processed greyscale magnetometer data; survey area 22 (1:1000 @ 44)

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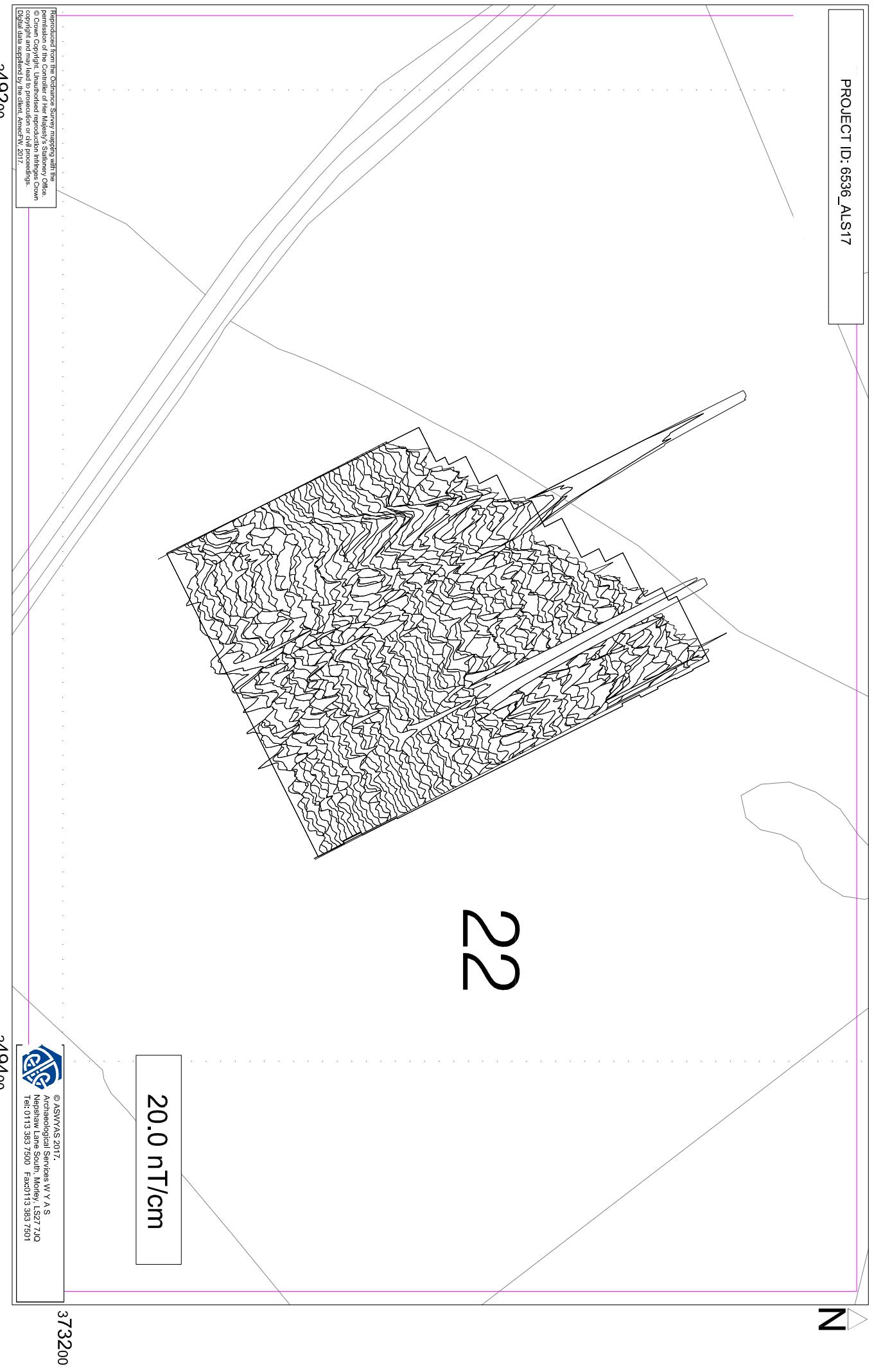


Fig. 222. XY trace plot of minimally processed magnetometer data; survey area 22 (1:1000 @ 44)

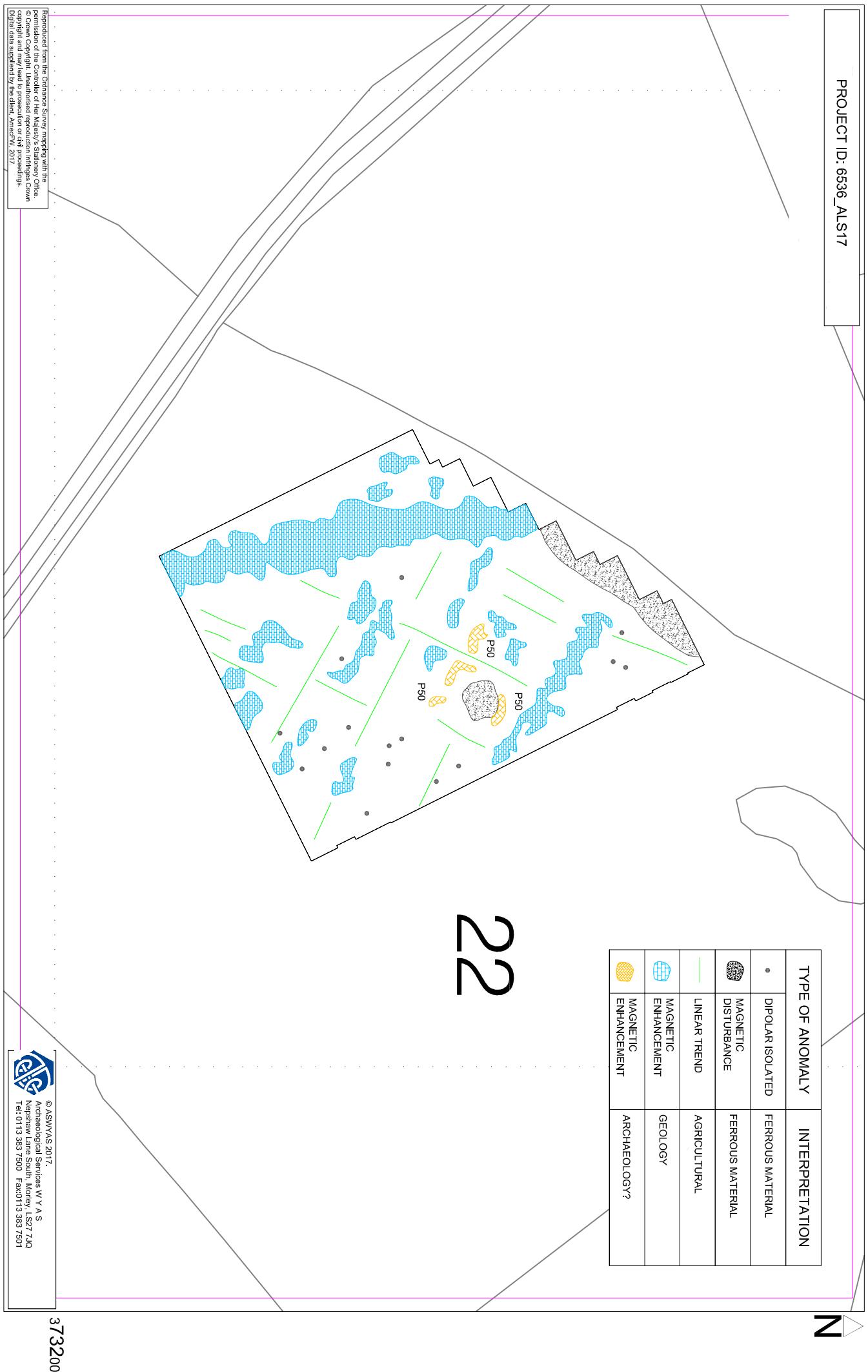


Fig. 223. Interpretation of magnetometer data; survey area 22 (1:1000 @ A4)

249200

249400

373200





21

373000

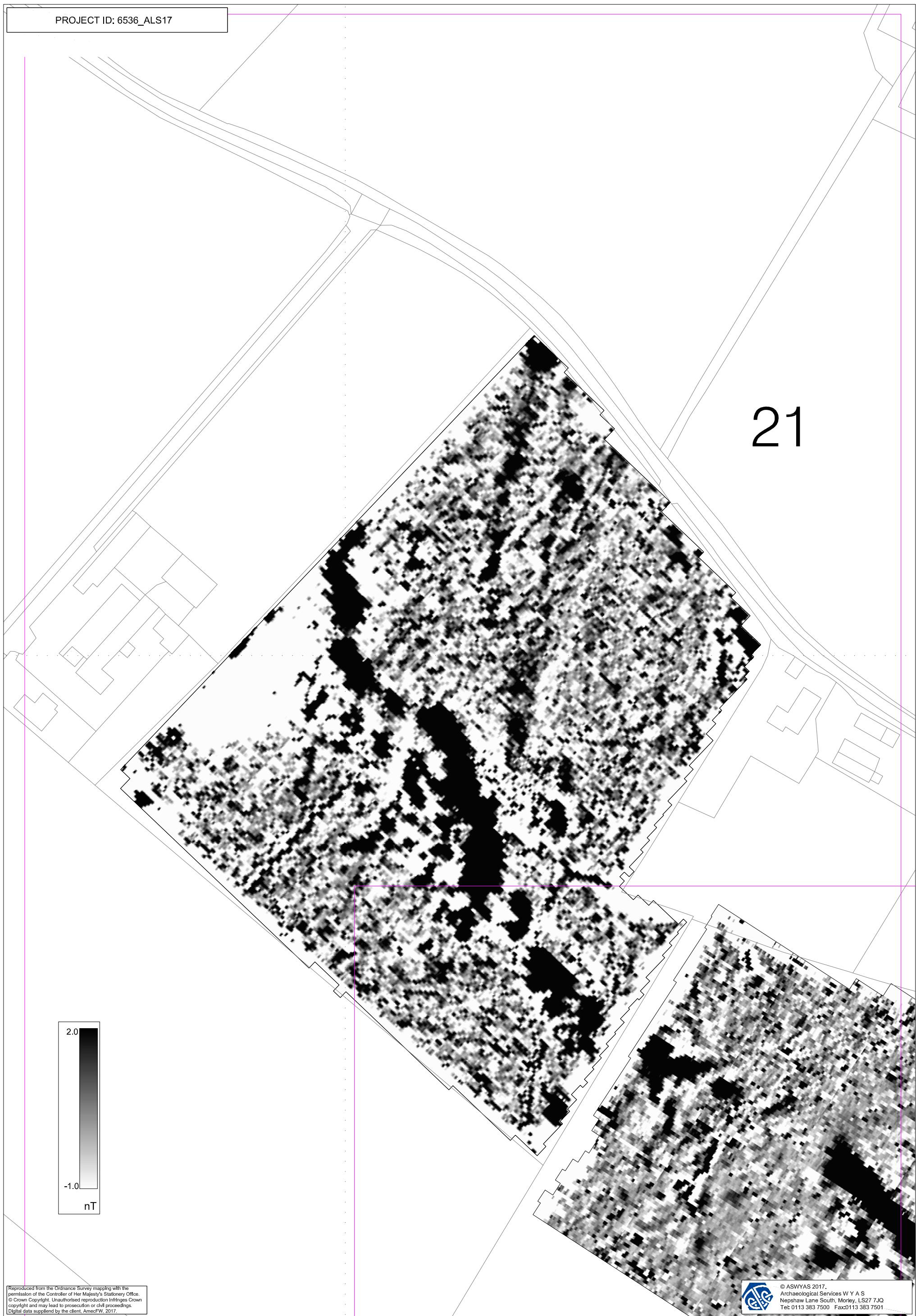
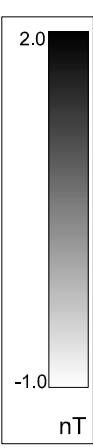


Fig. 224. Processed greyscale magnetometer data; survey area 21 (1:1000 @ A3)

0 30m



21

373000

20.0 nT/cm

249400

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0 30m

Fig. 225. XY trace plot of minimally processed magnetometer data; survey area 21 (1:1000 @ A3)

TYPE OF ANOMALY		INTERPRETATION
•	DIPOLAR ISOLATED	FERROUS MATERIAL
●	MAGNETIC DISTURBANCE	FERROUS MATERIAL
—	LINEAR TREND	AGRICULTURAL
■	MAGNETIC ENHANCEMENT	GEOLGY
■	MAGNETIC ENHANCEMENT	ARCHAEOLOGY?

N

21

373000

P51

249400

0 30m

Fig. 226. Interpretation of magnetometer data; survey area 21 (1:1000 @ A3)

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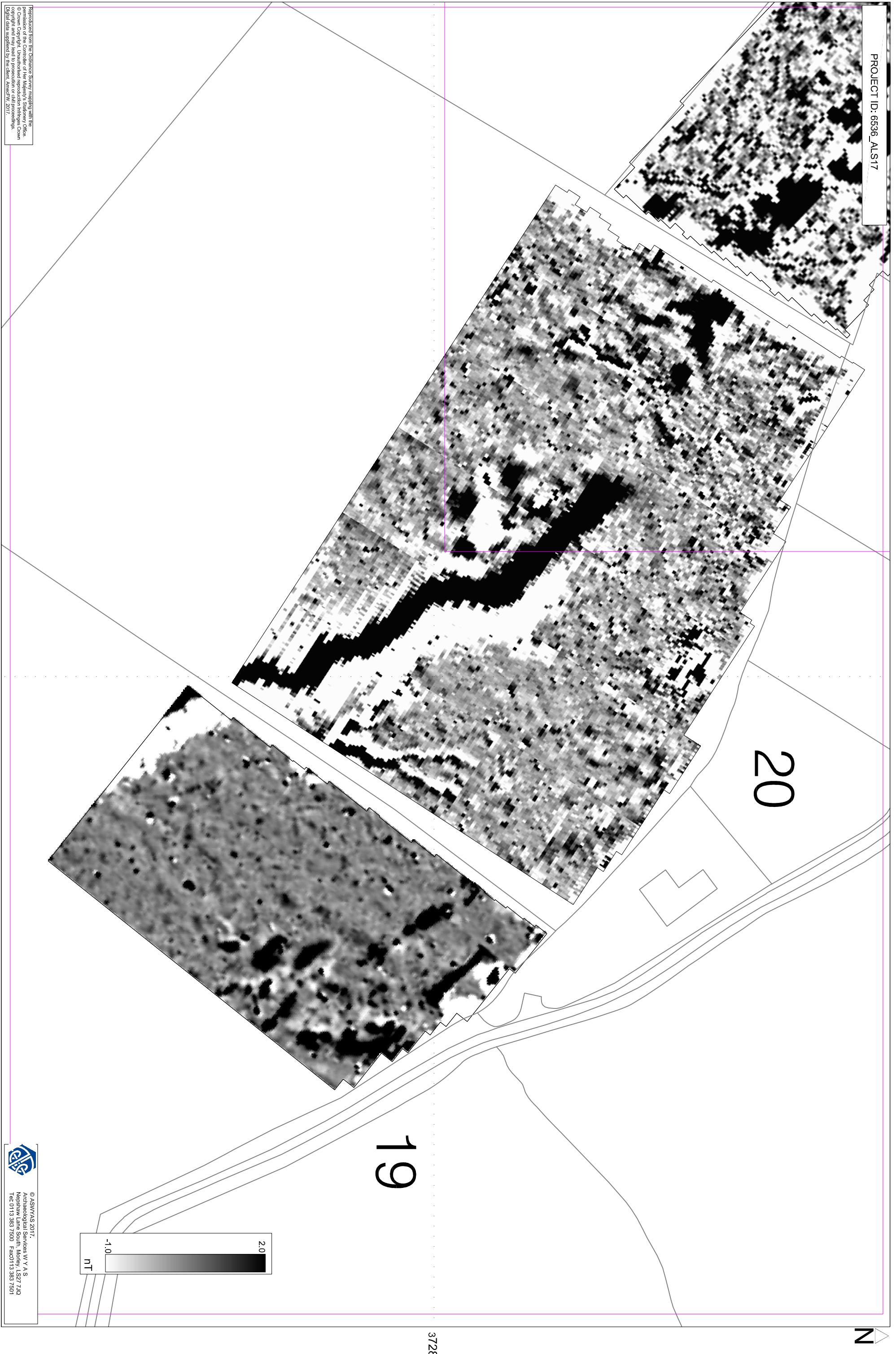


Fig. 227. Processed greyscale magnetometer data; survey area 19 and 20 (1:1000 @ A3)



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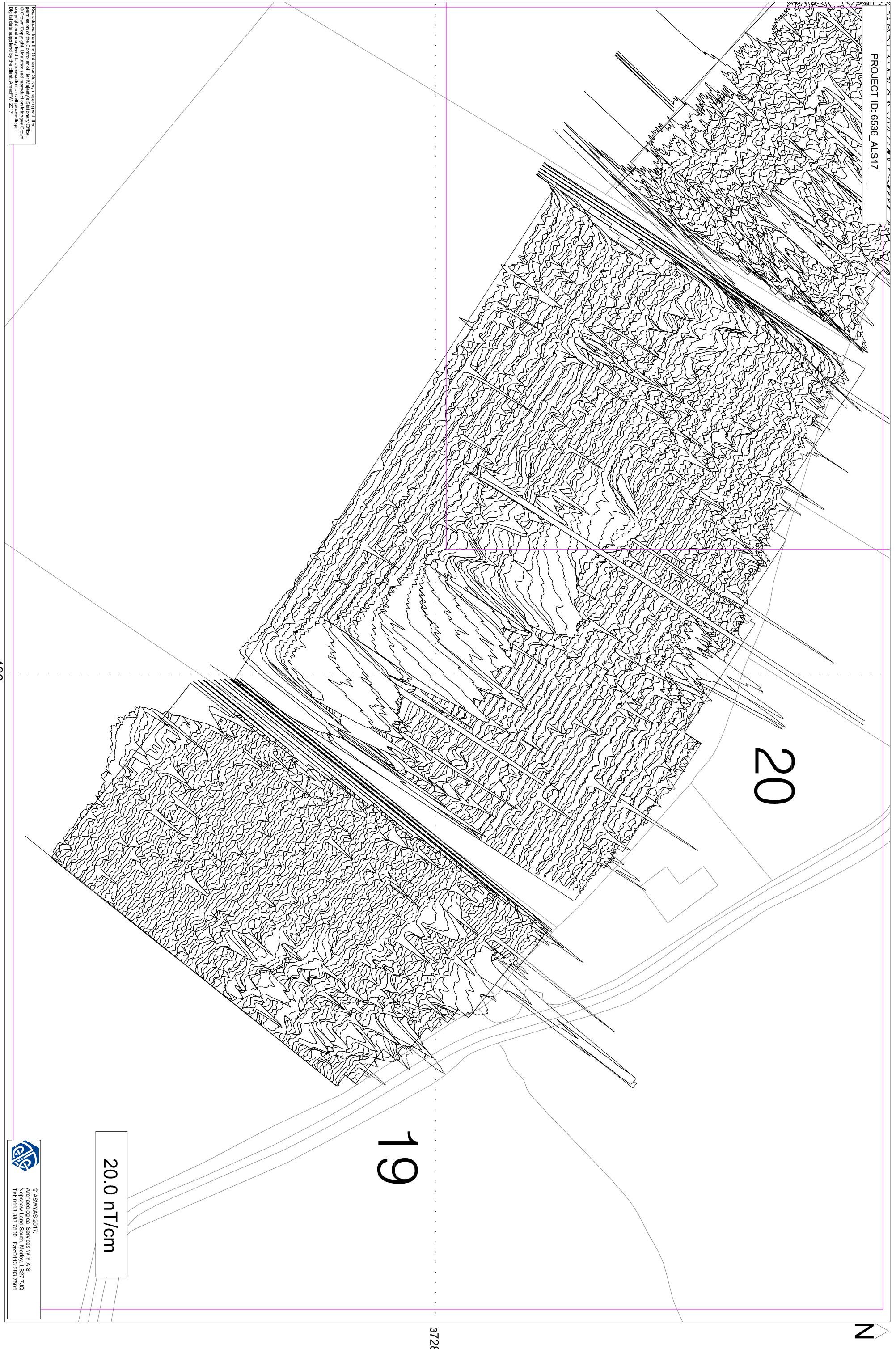


Fig. 228. XY trace plot of minimally processed magnetometer data; survey areas 19 and 20 (1:1000 @ A3)

PROJECT ID: 6536_ALS17

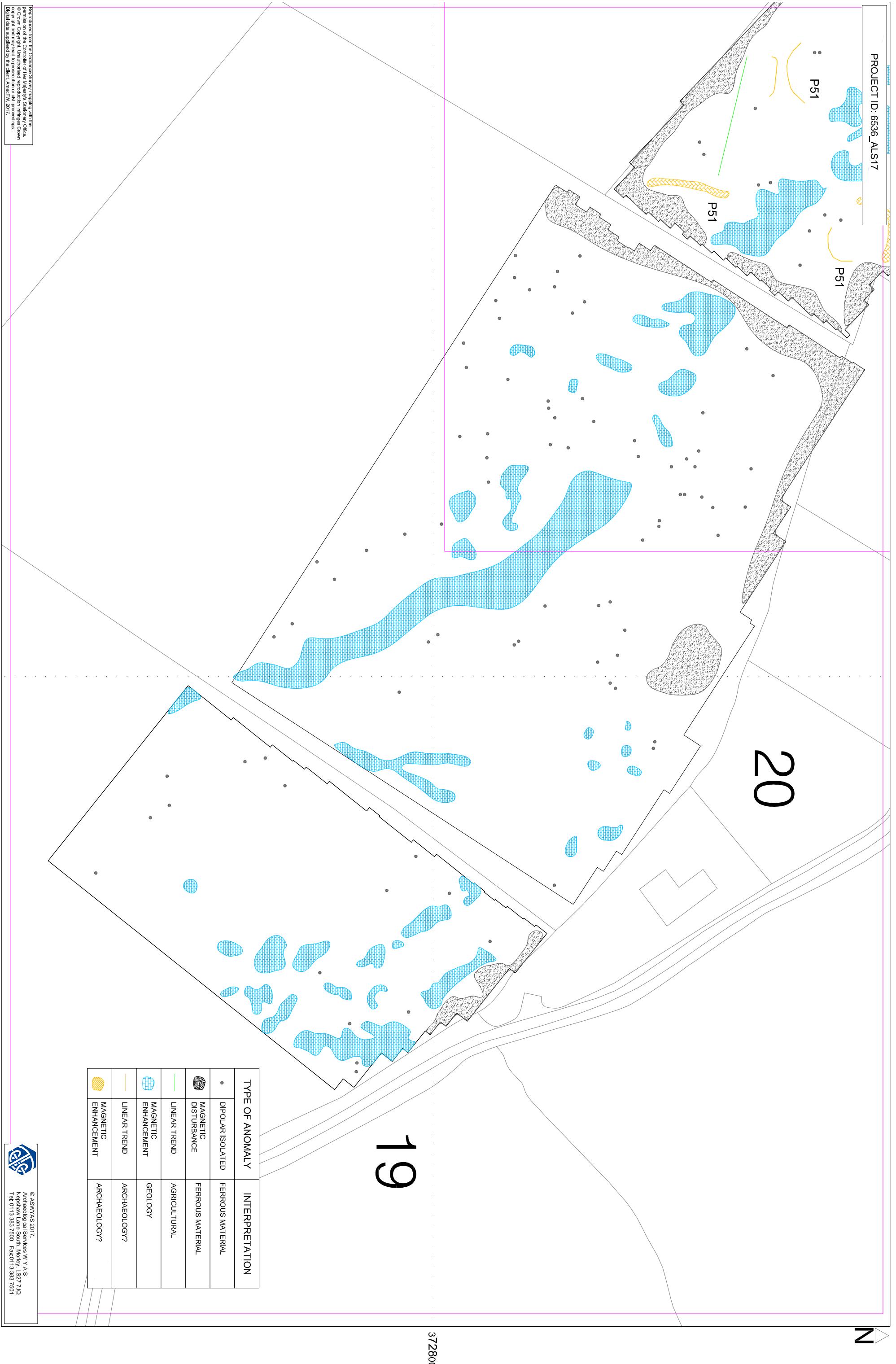
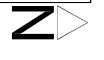


Fig. 229. Interpretation of magnetometer data; survey areas 19 and 20 (1:1000 @ 43)

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18

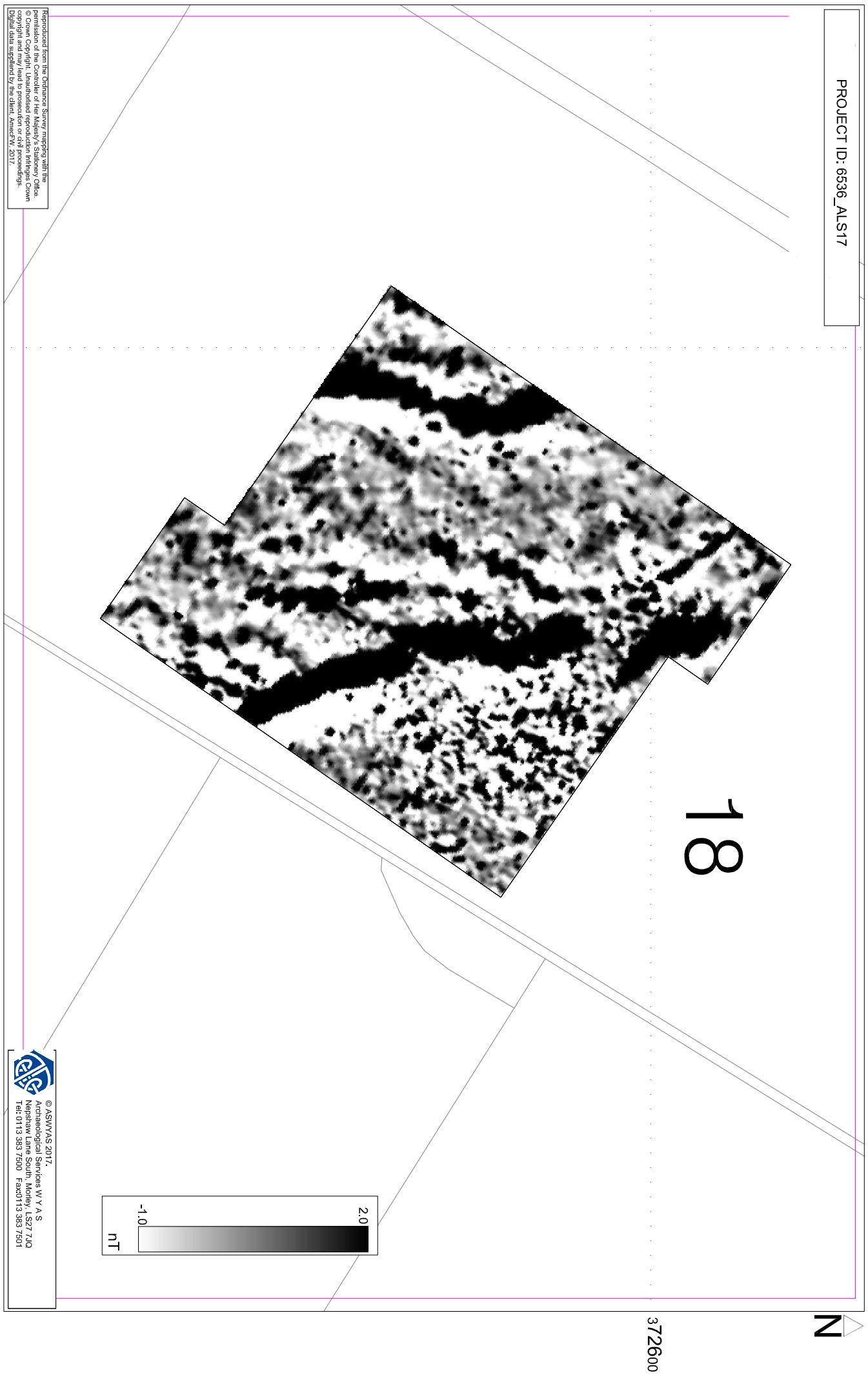


Fig. 230. Processed greyscale magnetometer data; survey area 18 (1:1000 @ 44)

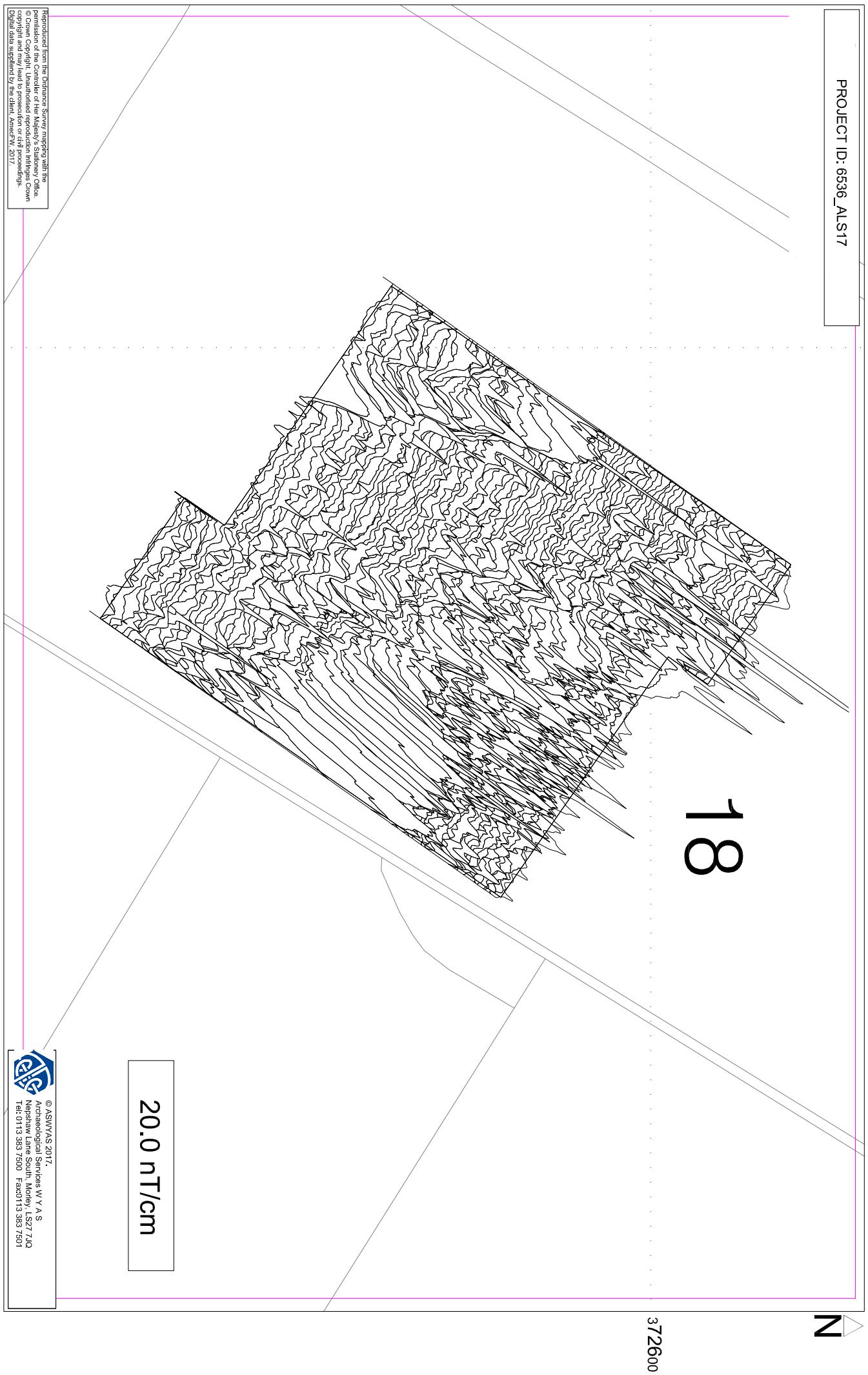
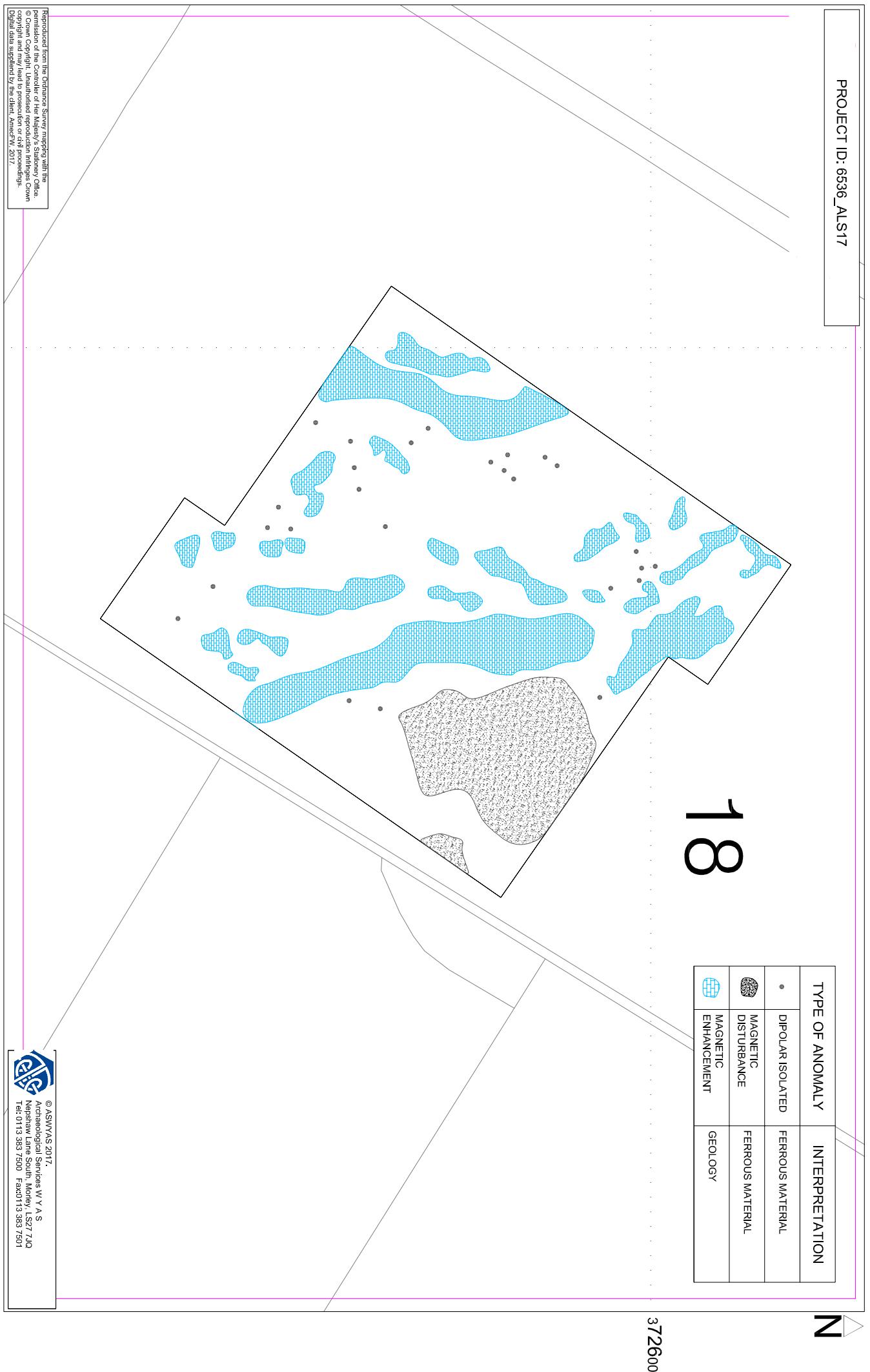


Fig. 231. XY trace plot of minimally processed magnetometer data; survey area 18 (1:1000 @ 44)

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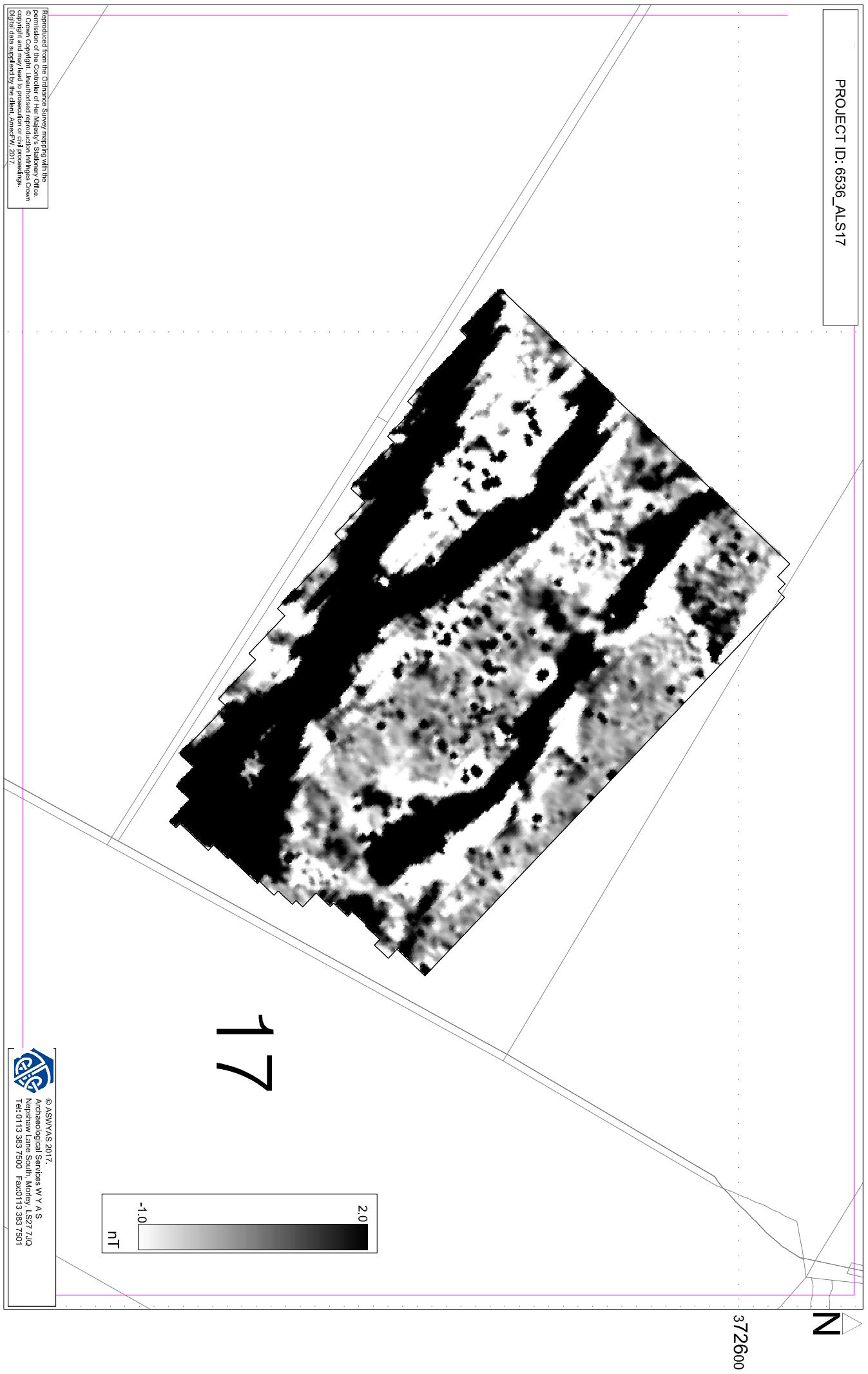


Fig. 233. Processed greyscale magnetometer data; survey area 17 (1:1000 @ 44)

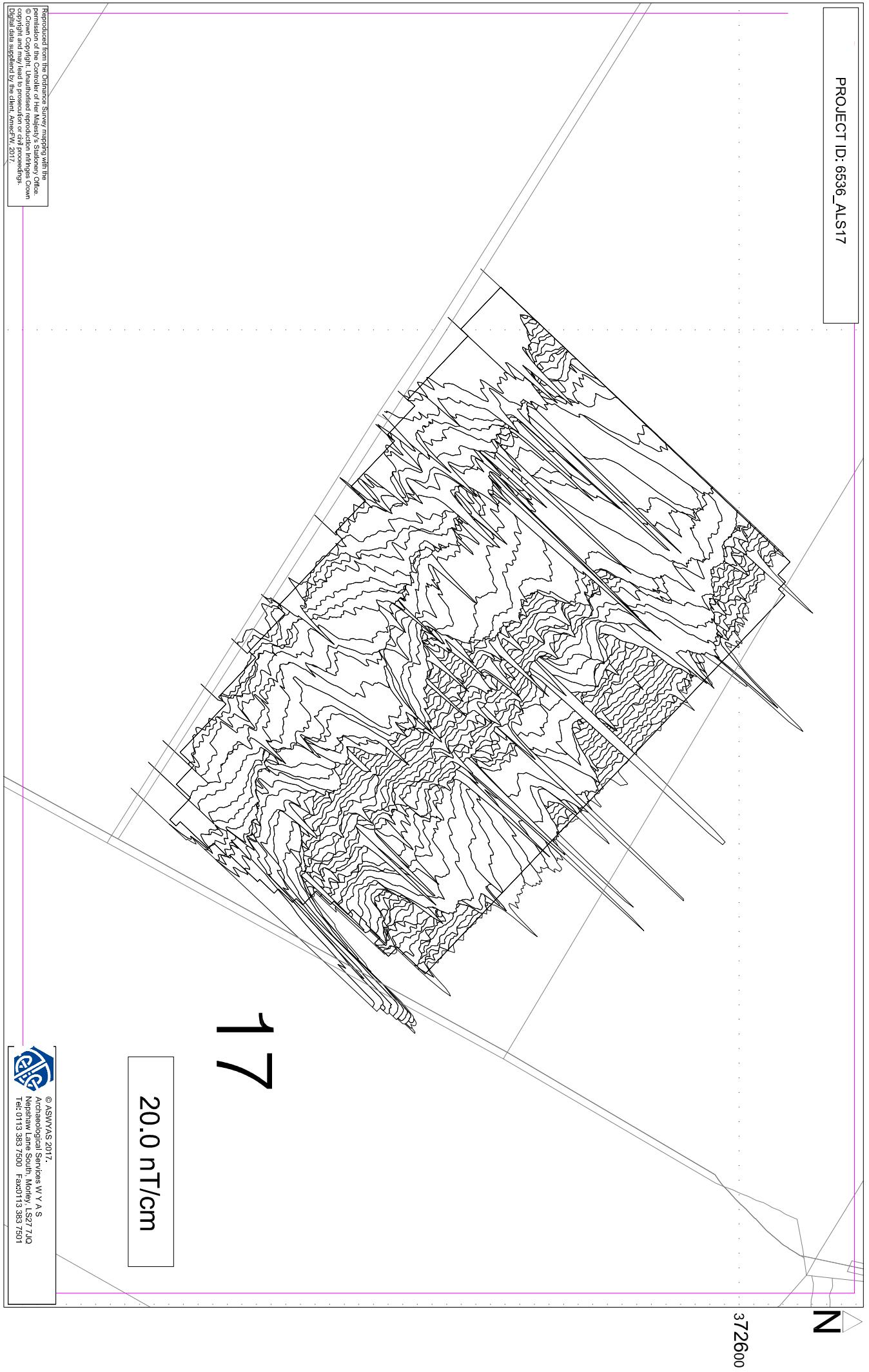


Fig. 234. XY trace plot of minimally processed magnetometer data; survey area 17 (1:1000 @ 44)

PROJECT ID: 6536_ALS17

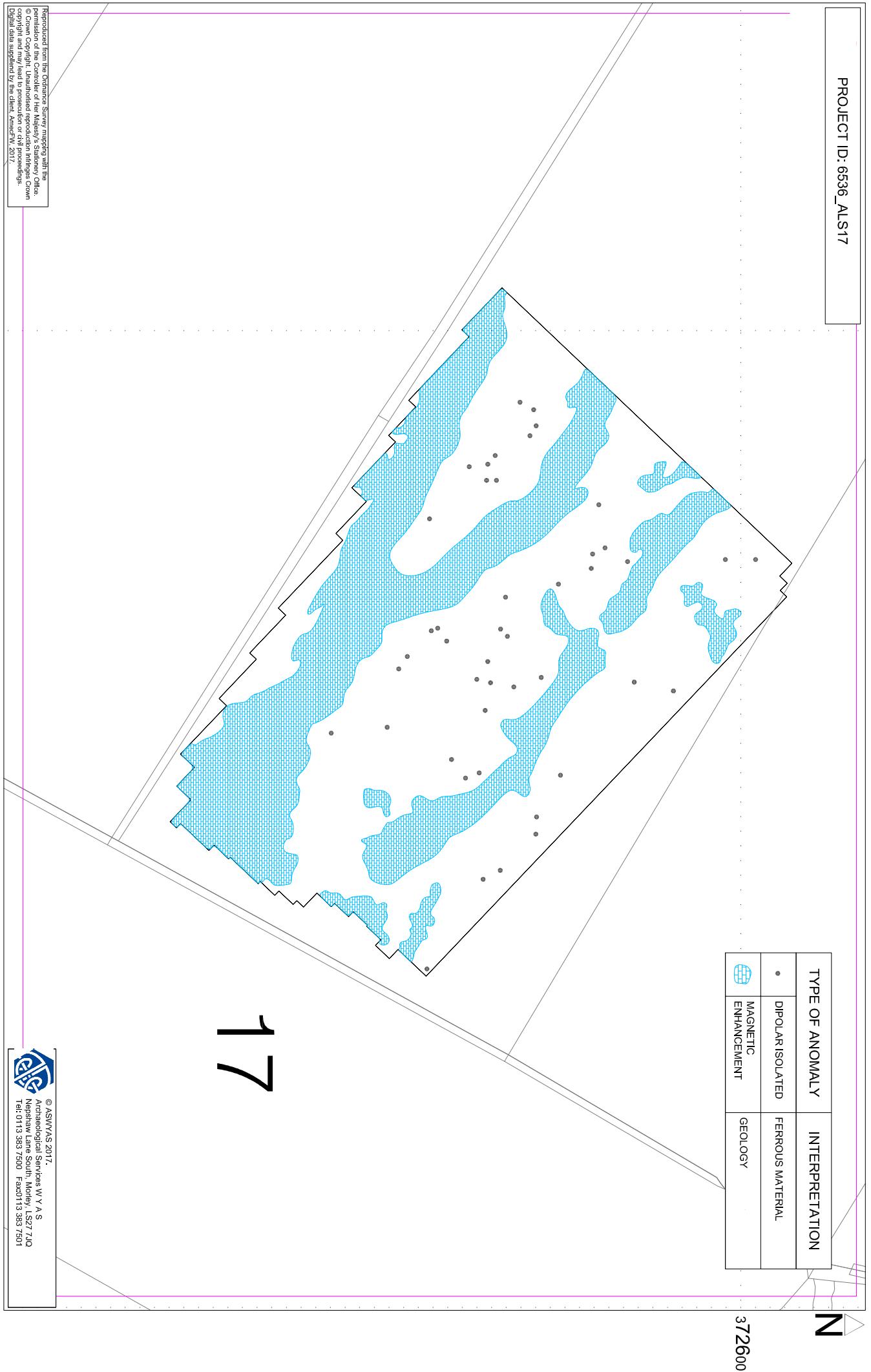


Fig. 235. Interpretation of magnetometer data; survey area 17 (1:1000 @ A4)

PROJECT ID: 6536_ALS17



Fig. 236. Processed greyscale magnetometer data; survey area 16 (1:1000 @ 44)

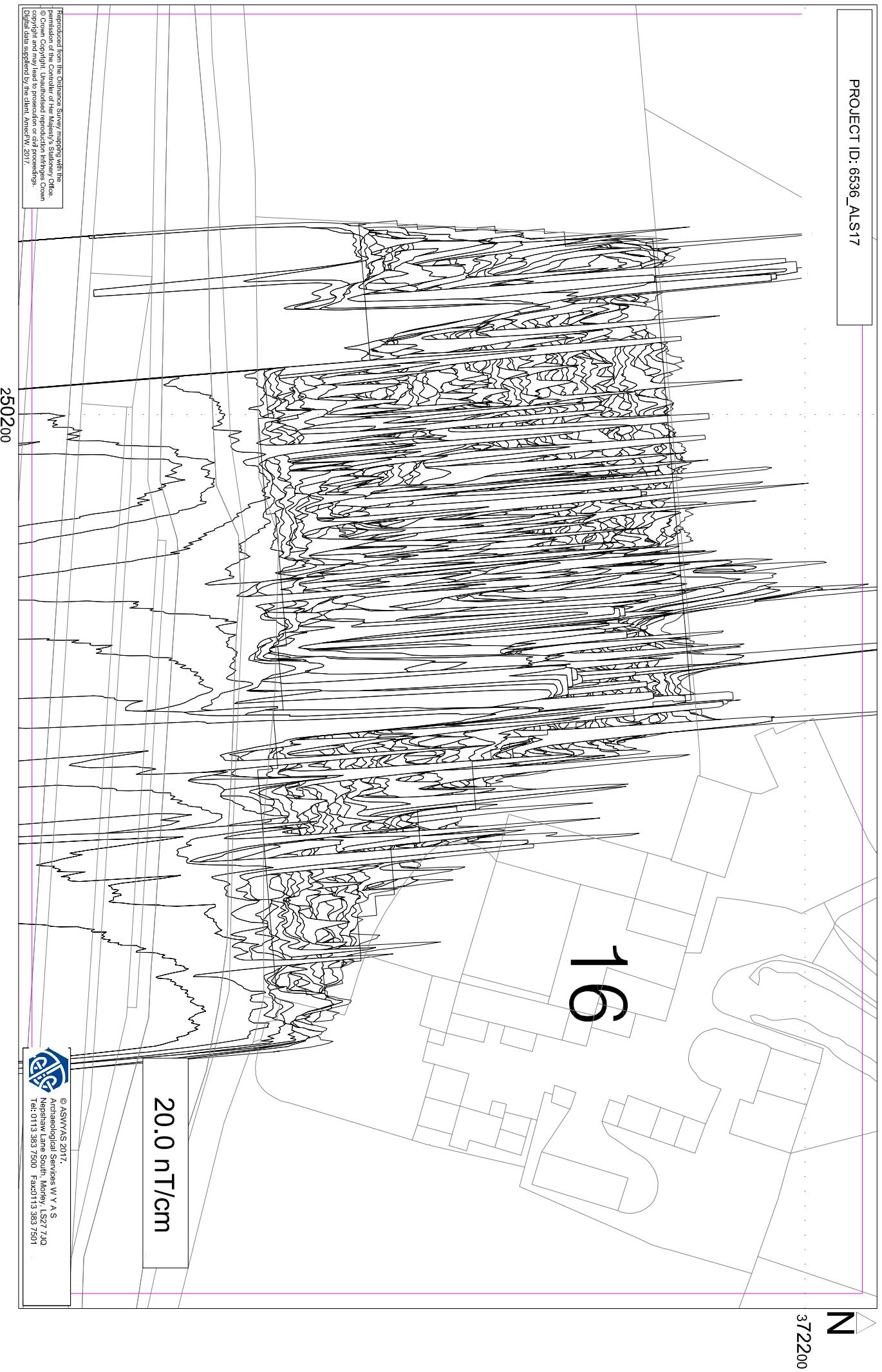


Fig. 237. XY trace plot of processed magnetometer data; survey area 16 (1:1000 @ A4)

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37200

TYPE OF ANOMALY INTERPRETATION

•	DIPOLAR ISOLATED	FERROUS MATERIAL
	MAGNETIC ENHANCEMENT	GEOLOGY

16

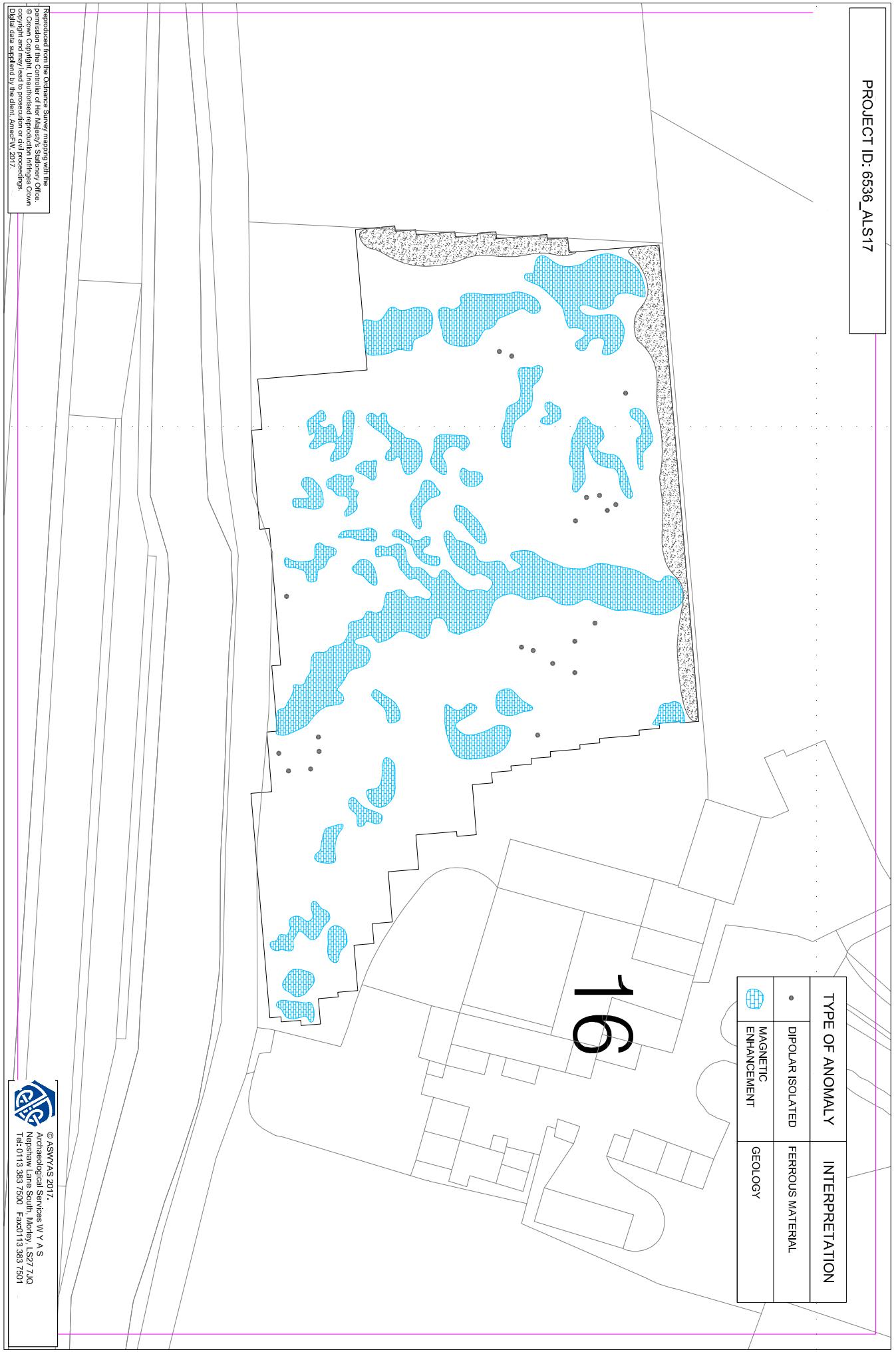


Fig. 238. Interpretation of magnetometer data; survey area 16 (1:1000 @ A4)

PROJECT ID: 6536_ALS17

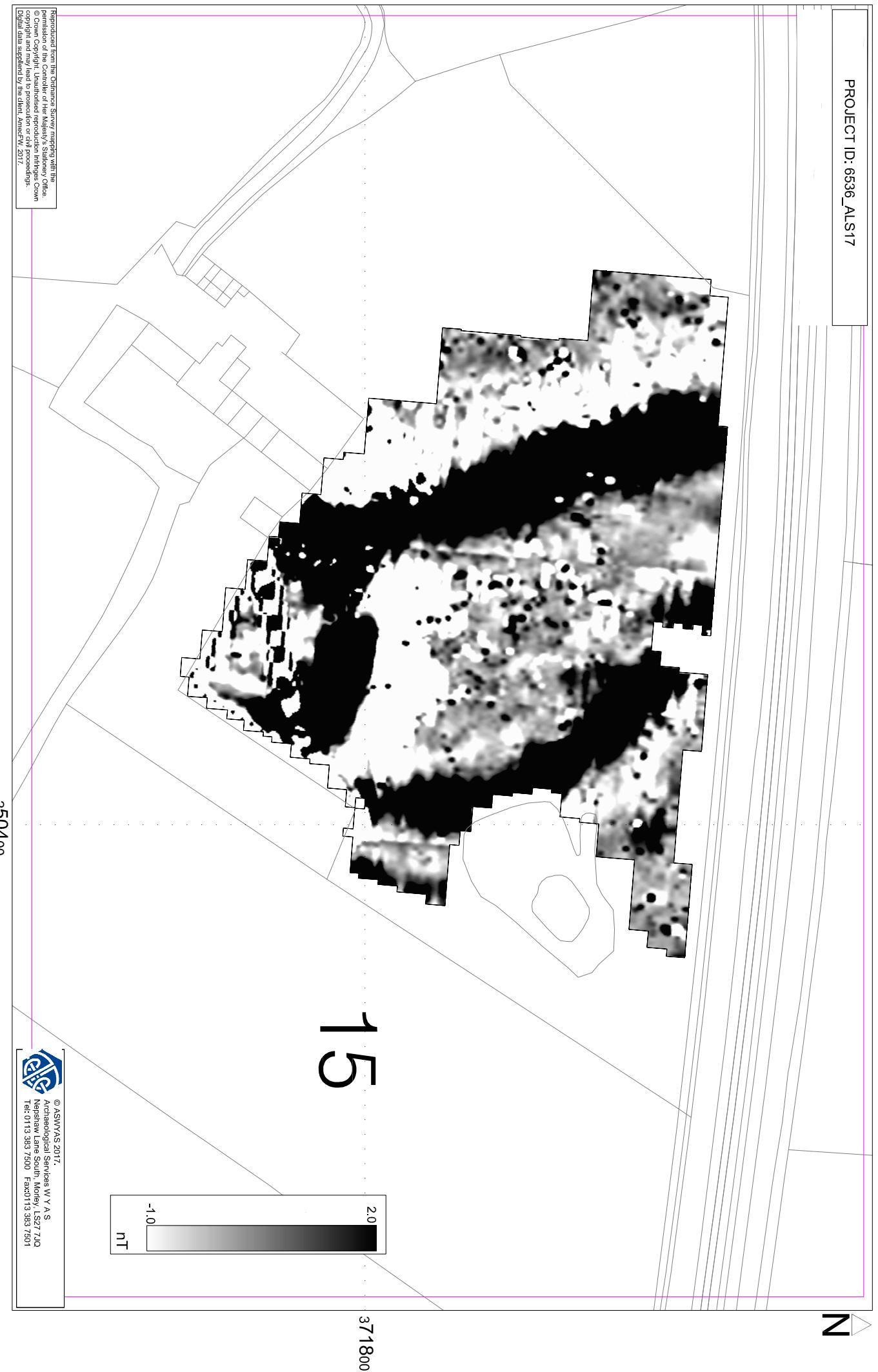


Fig. 239. Processed greyscale magnetometer data; survey area 15 (1:1000 @ 44)

PROJECT ID: 6536_ALS17

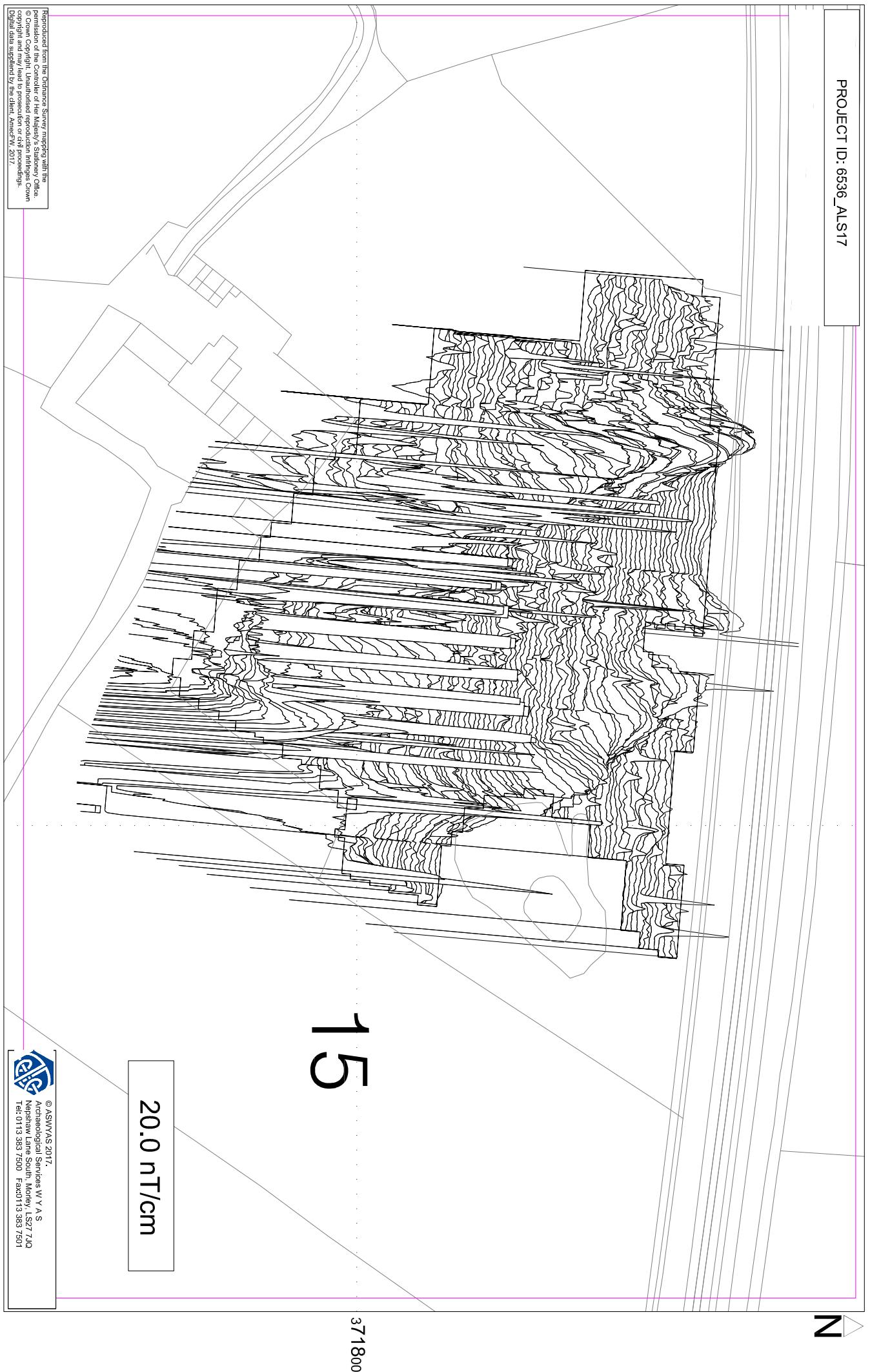


Fig. 240. XY trace plot of minimally processed magnetometer data; survey area 15 (1:1000 @ 44)

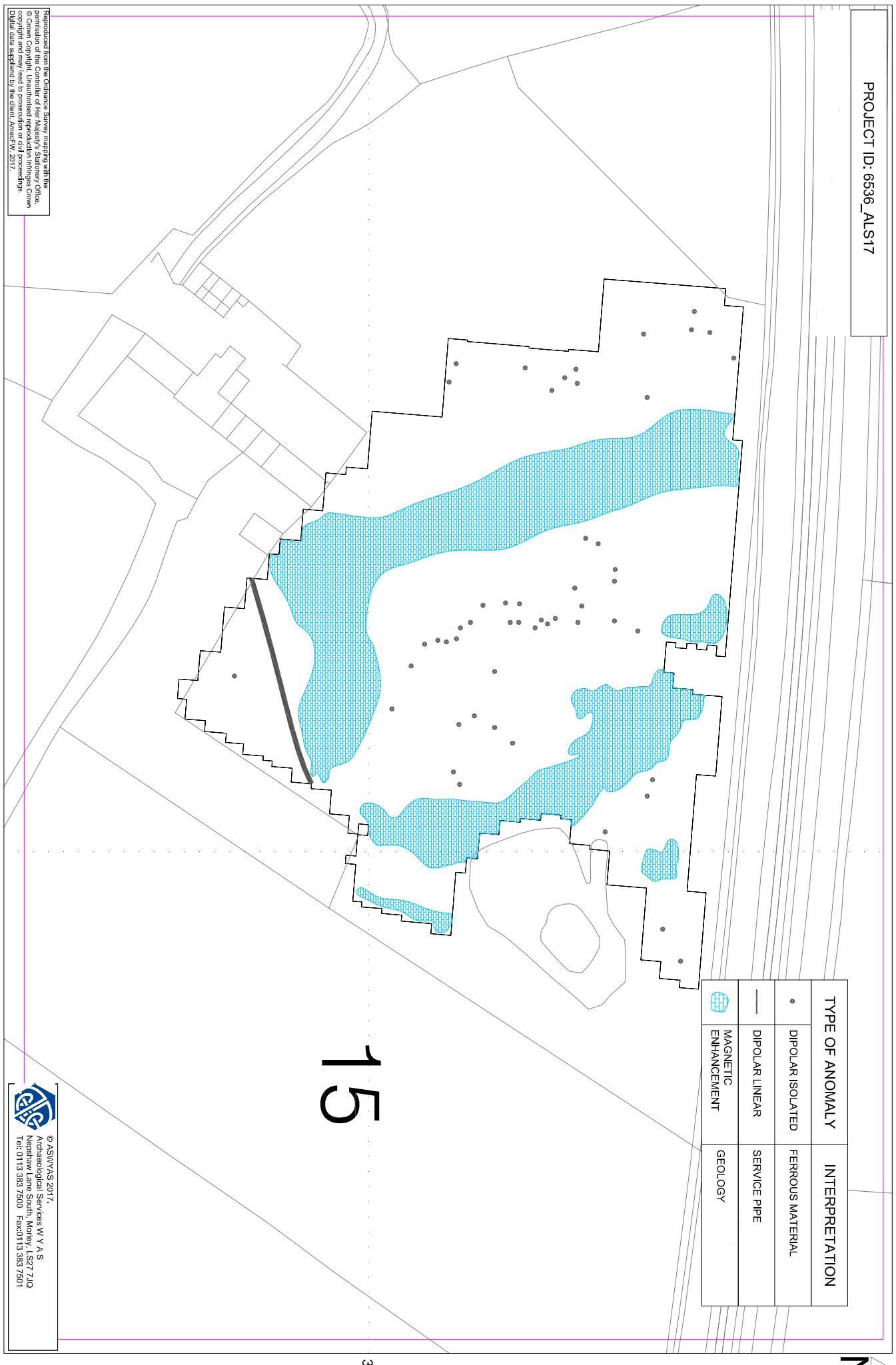


Fig. 241. Interpretation of magnetometer data; survey area 15 (1:1000 @ A4)

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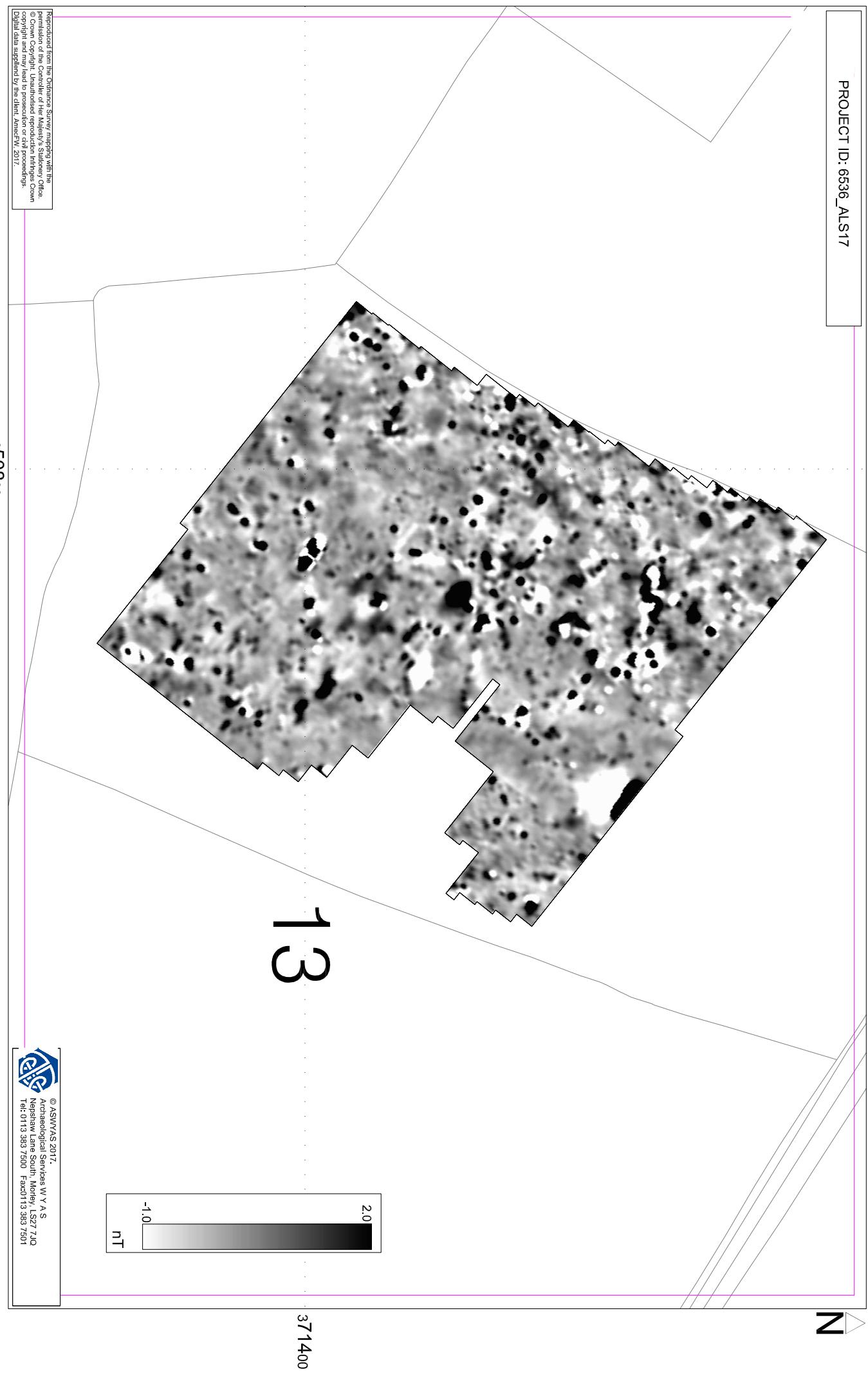


Fig. 242. Processed greyscale magnetometer data; survey area 13 (1:1000 @ 44)

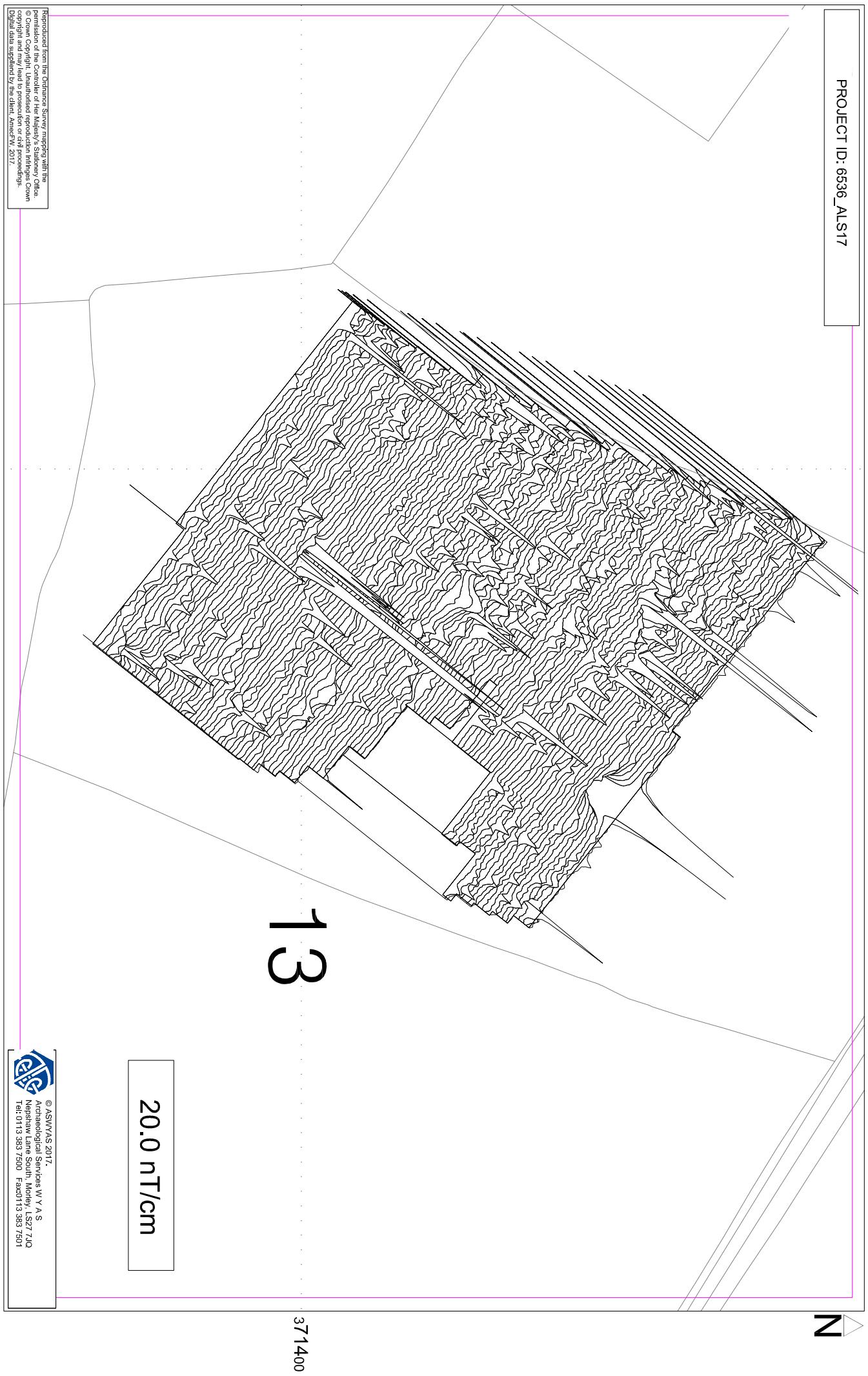


Fig. 243. XY trace plot of minimally processed magnetometer data; survey area 13 (1:1000 @ 44)

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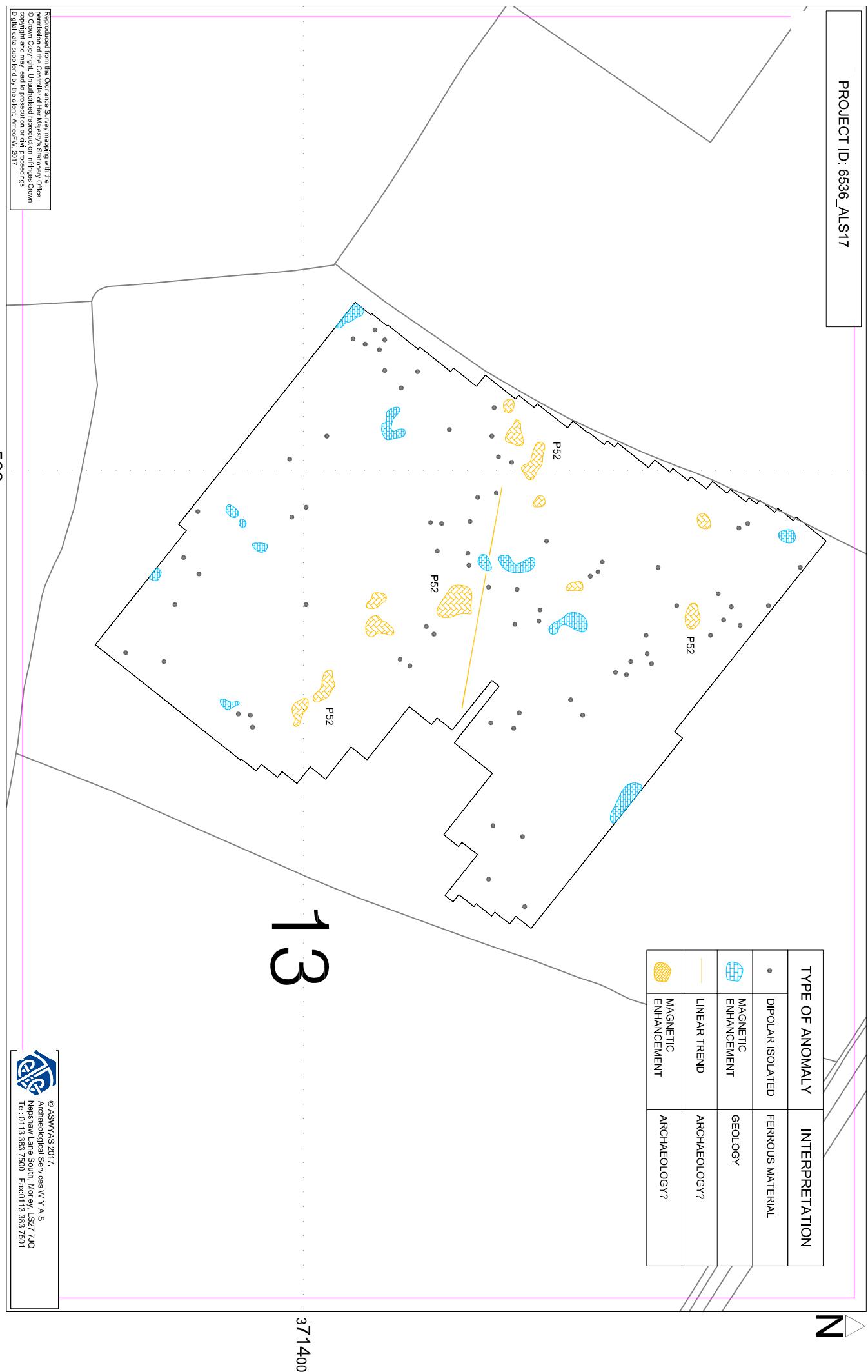


Fig. 244. Interpretation of magnetometer data; survey area 13 (1:1000 @ A4)

PROJECT ID: 6536_ALS17

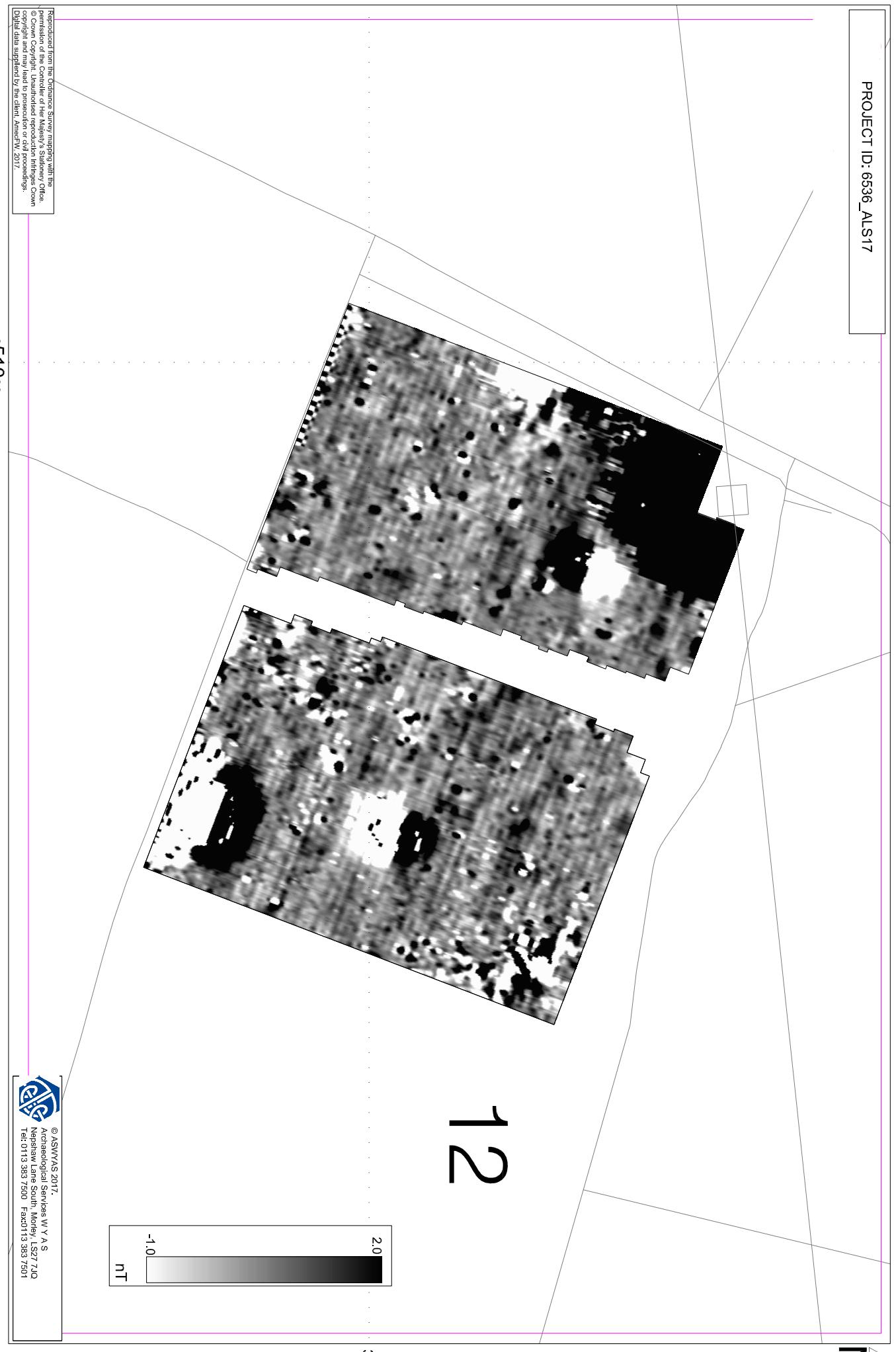


Fig. 245. Processed greyscale magnetometer data; survey area 12 (1:1000 @ 44)

PROJECT ID: 6536_ALS17

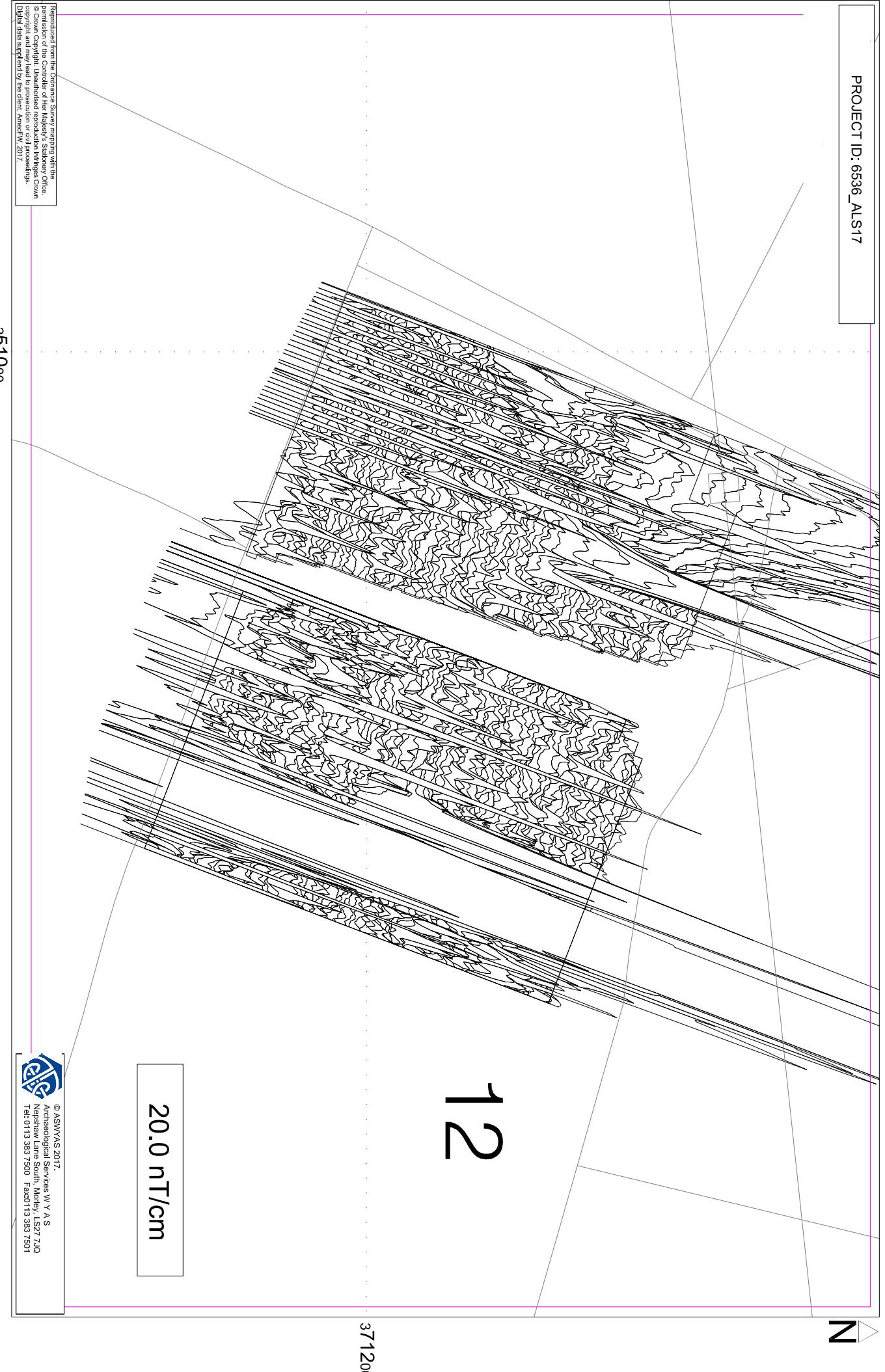


Fig. 246. XY trace plot of minimally processed magnetometer data; survey area 12 (1:1000 @ 44)

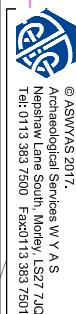
PROJECT ID: 6536_ALS17

TYPE OF ANOMALY	INTERPRETATION
• DIPOLAR ISOLATED	FERROUS MATERIAL
— DIPOLAR LINEAR	SERVICE PIPE
🌐 MAGNETIC ENHANCEMENT	GEOLOGY

12

371200

25100



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Fig. 247. Interpretation of magnetometer data; survey area 12 (1:1000 @ A4)

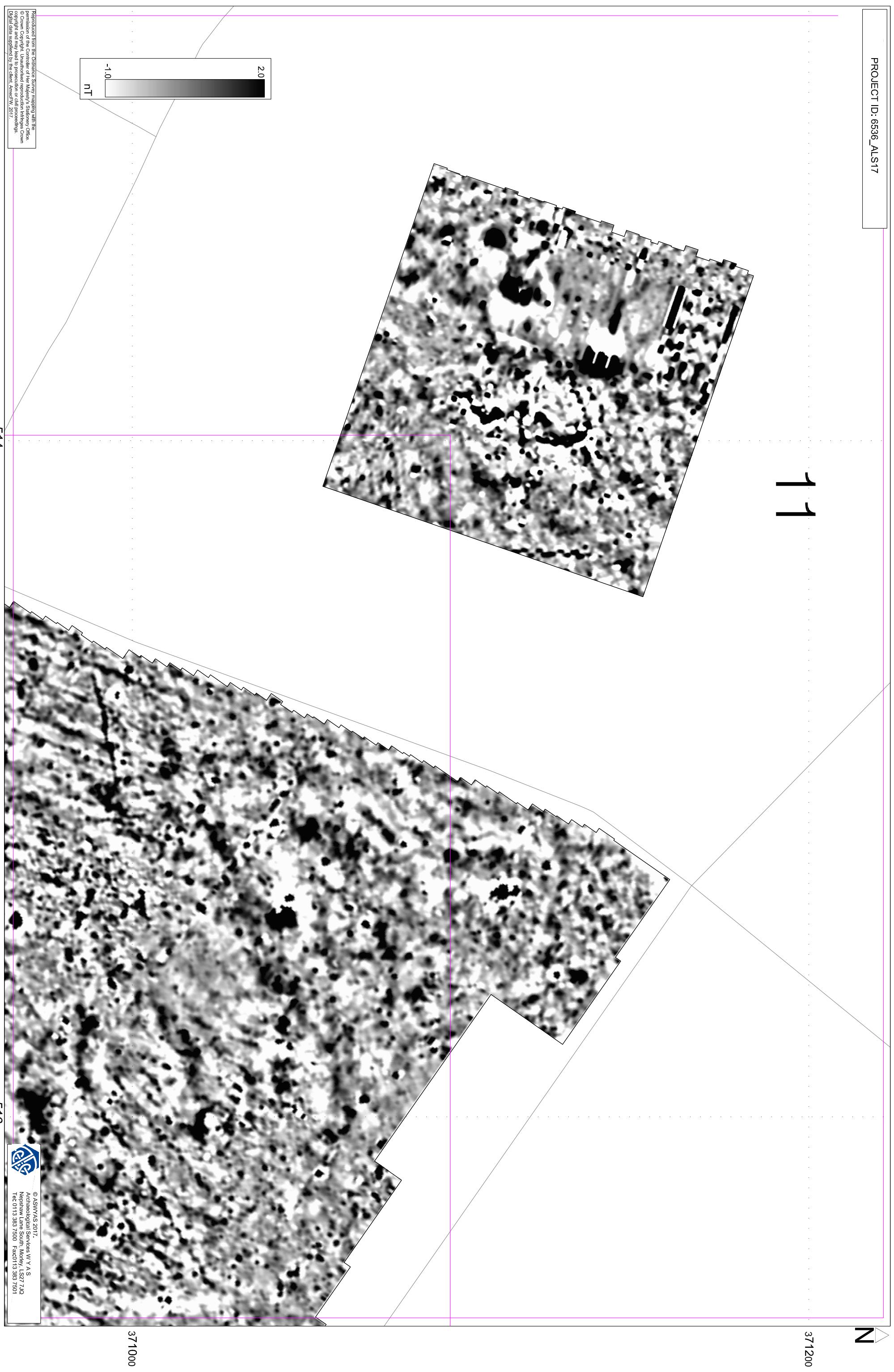


Fig. 248. Processed greyscale magnetometer data; survey areas 10 and 11 (1:1000 @ A3)

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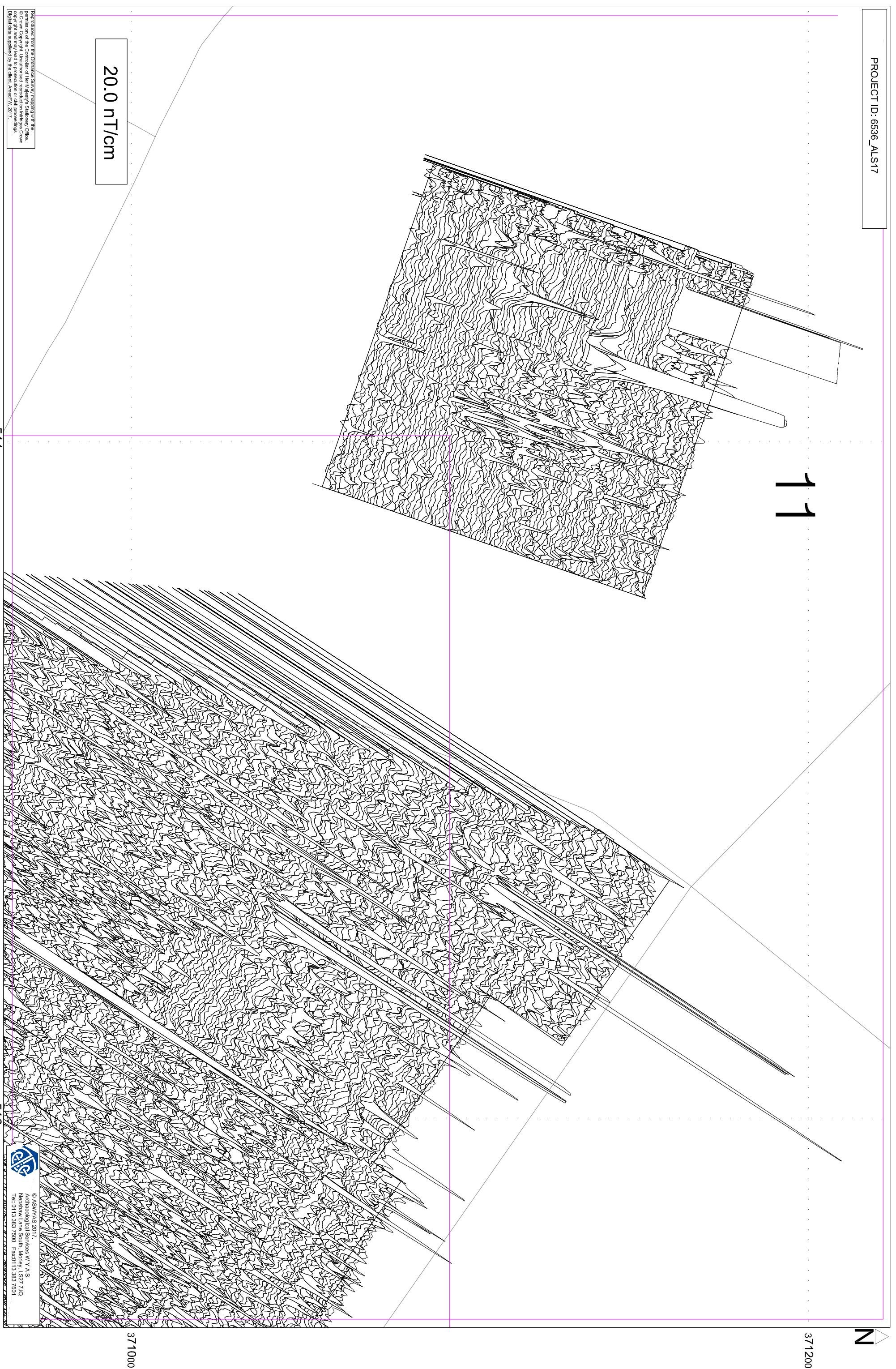


Fig. 249. XY trace plot of minimally processed magnetometer data; survey areas 10 and 11 (1:1000 @ A3)

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TYPE OF ANOMALY	INTERPRETATION
• DIPOLAR ISOLATED	FERROUS MATERIAL
● MAGNETIC DISTURBANCE	FERROUS MATERIAL
LINEAR TREND	FIELD DRAIN
— LINEAR TREND	AGRICULTURAL
— LINEAR TREND	GEOLOGY
● MAGNETIC ENHANCEMENT	GEOLOGY

N

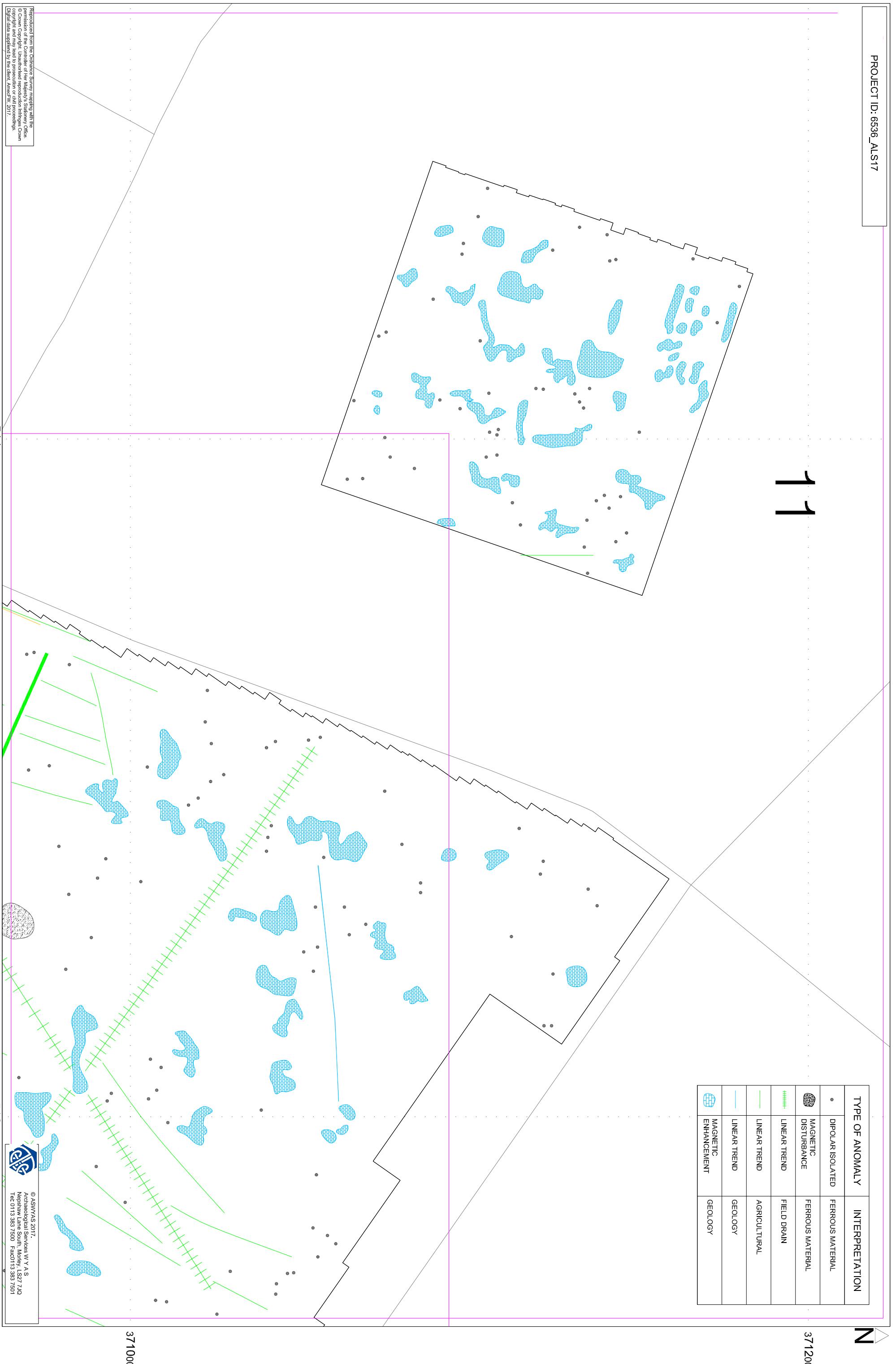


Fig. 250. Interpretation of magnetometer data; survey areas 10 and 11 (1:1000 @ 43)

PROJECT ID: 6536_ALS17

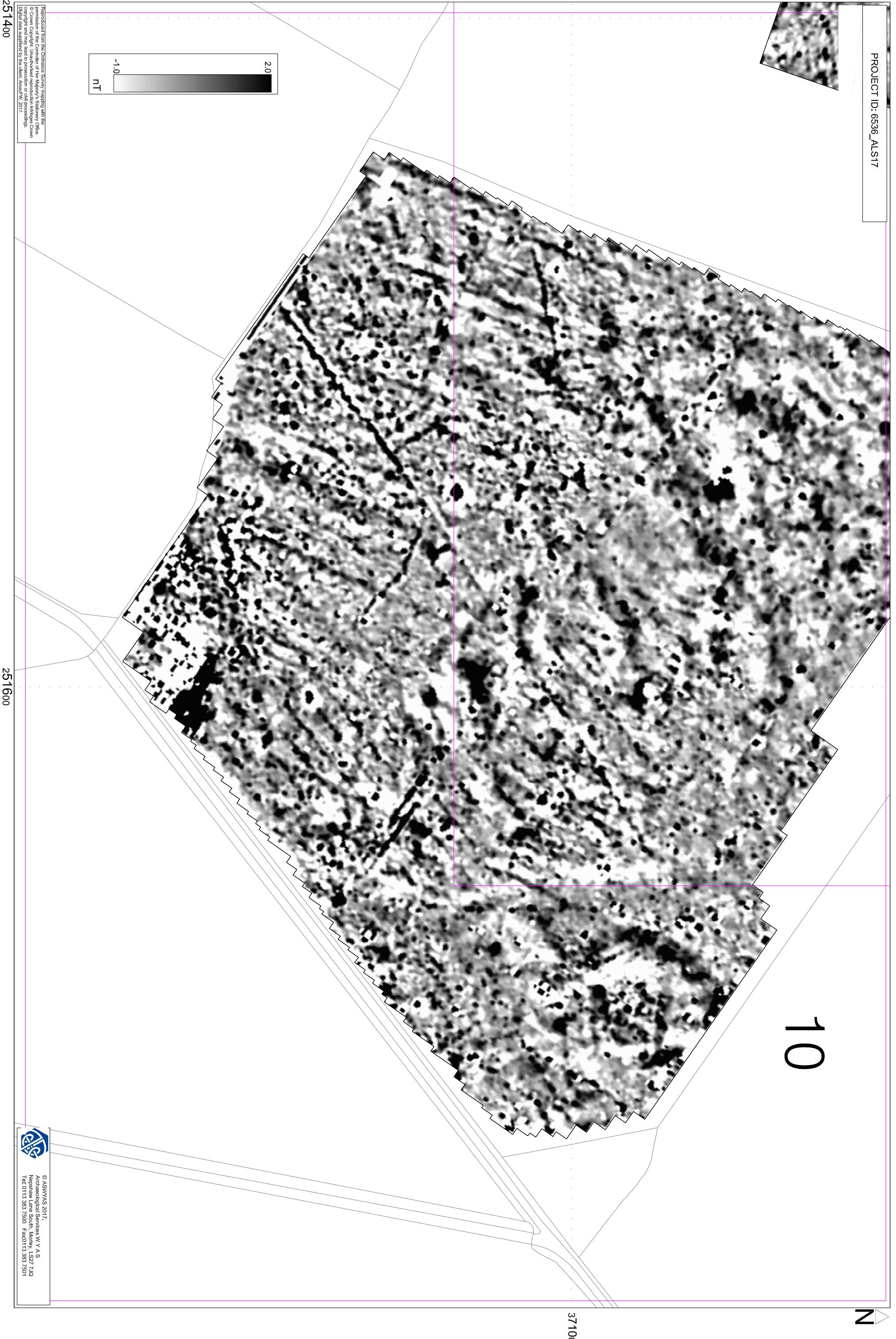
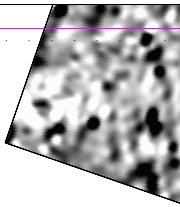


Fig. 251. Processed greyscale magnetometer data; survey area 10 (1:1000 @ A3)

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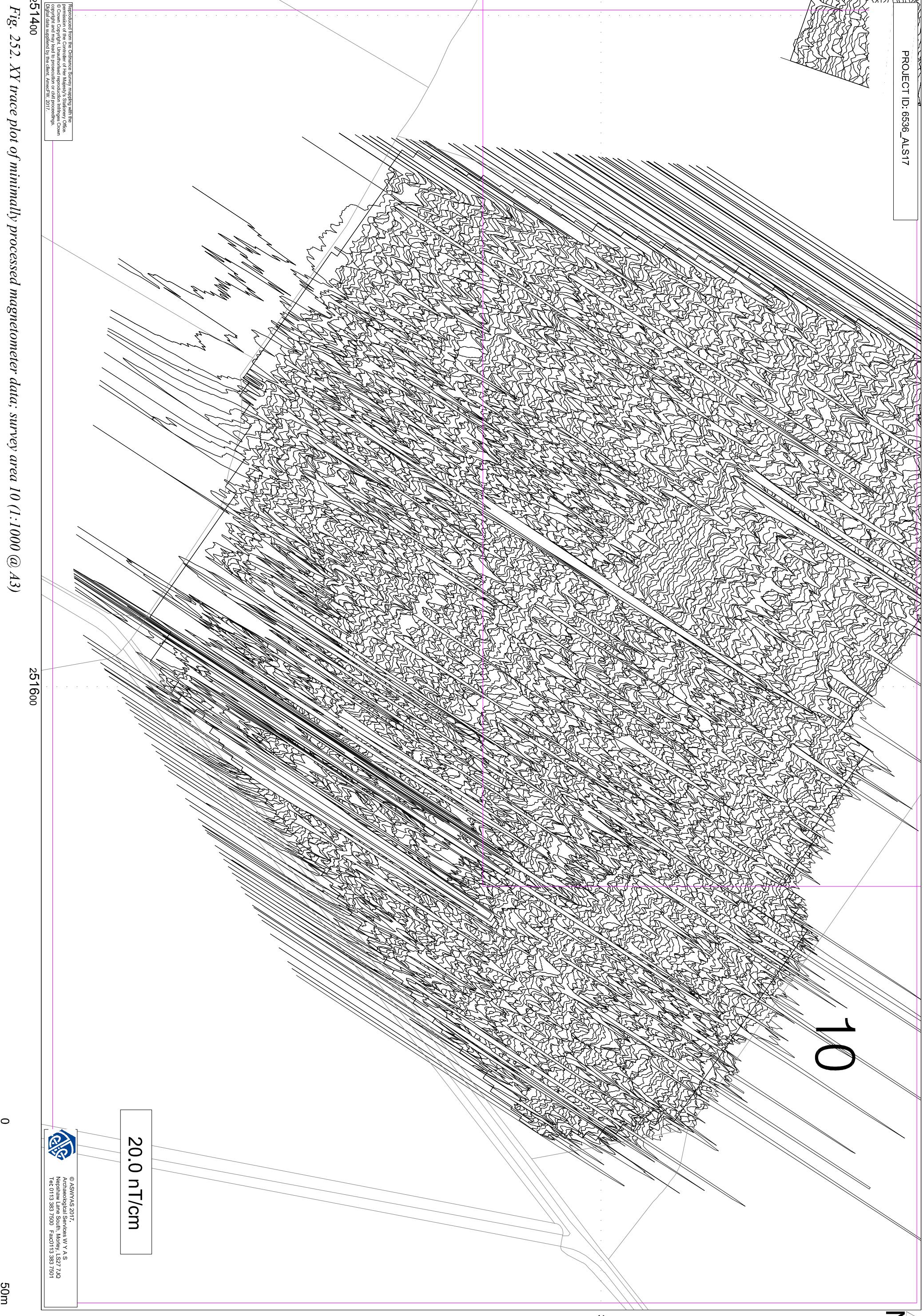
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10

N

371000

20.0 nT/cm



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Fig. 252. XY trace plot of minimally processed magnetometer data; survey area 10 (1:1000 @ A3)

251400

251600



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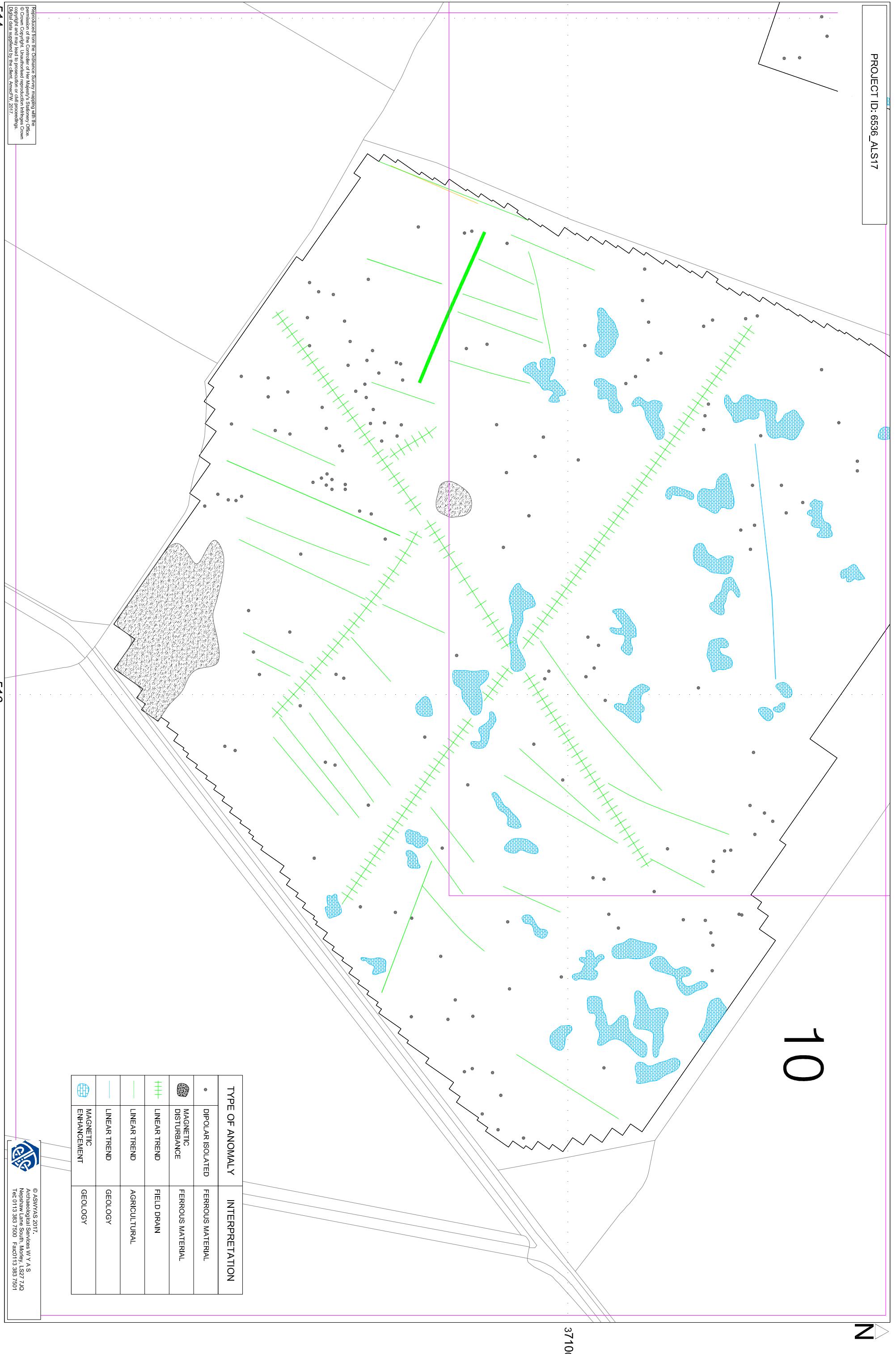


Fig. 253. Interpretation of magnetometer data; survey area 10 (1:1000 @ A3)