BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1960

FROM ARGENTINE ISLANDS A.973

LAT.	-65° 15'
LONG.	295° 44'
GEOMAGNETIC LAT.	-53.8°
GEOMAGNETIC LONG.	3.3°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1960

1. Instruments

These are standard La Cour variometers, recording H, D, and Z.

2. Time

Charts were changed at Greenwich midnight, so that each chart shows a complete Greenwich day. The master clock was adjusted to keep the clock error less than ½ minute.

The parallax correction for each trace is given opposite. The correction is to be added to the times read from the magnetograms.

3. Order of traces, from top to bottom:

Sensitive magnetogram.	Insensitive magnetogram
Temperature trace.	D trace
H trace.	D base-line (double, upper line is used).
H base-line.	H base-line.
(Temperature trace reflection, sometimes present)	Temperature trace
D base-line.	H trace.
D trace.	Z base-line and trace.
Z base-line and trace.	

4. Sense of traces.

All magnetograms: Temperature increases up the sheet.
H increases up the sheet.
D increases easterly up the sheet.
Z increases down the sheet.
(N.B. Z is negative, hence as Z increases, modulus of Z decreases).

5. Temperature coefficients.

The sensitive H and Z variometers have appreciable temperature coefficients.
H base-line values increase with increasing temperature.
Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

	SENSITIVE MAGNETOGRAM	INSENSITIVE MAGNETOGRAM
Temperature trace.		
Scale Value	0.527°C/mm.	
Baseline	- 31.5°C	
Parallax Correction	+ 4 minutes	
Horizontal Force trace.		
Scale Value:	+.39 γ /mm.	-6.0 γ /mm.
Baselines:	1-7: 23,301 γ (at 0°C) 8-31: 23,300 γ (" ")	All days 23,358 γ (actual)
Temperature coefficient	+.2 γ /°C	
Parallax Correction	+ 2 minutes	Nil.
Declination trace:		
Scale Value:	0.31'/mm.	.33'/mm.
Base Line (actual)	17°38'.4 W.	16°31'.0 W.
Parallax Correction:	+ 1 minute	- 1 minute
Vertical Force trace:		
Scale Value:	1-5: +.10 γ /mm. 6-31: +.13 γ /mm.	All days +.25 γ /mm.
Base Lines	1-29: - 36,409 γ (at 0°C) 30-31: - 36,409 γ (" ")	" - 36,391 γ (actual).
Temperature coefficient	2.1 γ /°C	
Parallax Correction	Nil	- 1 minutes
Reflection distance.		
Main trace to 1st refl. up	75.3 m.	
Distance between baselines:	H to D: 37.1 mm.	D to H: 46.6 mm.
	D to Z. 137.3 mm.	H to Z: 131.2 mm.

ARGENTINE ISLANDS A.973 **JANUARY 1960**

Lower limit K9: 500 γ **Scale values: H,4.39 ‰; D,6.28 ‰.**

	K_H								K_D								$Max(K_H,K_D)$								
	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	Sum
Day																									
1	2	2	2	1	1	0	0	1	1	1	1	2	0	0	0	0	2	2	2	2	1	0	0	1	10
2	1	2	1	0	0	1	2	2	1	1	1	2	1	1	1	1	1	2	1	2	1	1	2	2	12
3	1	1	1	1	1	1	2	2	1	1	1	2	1	1	1	1	1	1	1	2	1	1	2	2	11
4	2	2	2	3	2	2	3	2	1	1	2	3	4	1	1	1	2	2	2	3	4	2	3	2	20
5	3	4	2	3	3	2	3	4	1	3	3	4	4	2	1	2	3	4	3	4	4	2	3	4	27
6	4	3	2	1	1	2	3	2	2	2	1	1	2	1	1	0	4	3	2	1	2	2	3	2	19
7	2	2	2	2	2	3	1	2	0	1	3	3	1	1	1	0	2	2	3	3	2	3	1	2	18
8	2	1	0	2	1	2	2	3	1	1	1	2	1	1	1	2	2	1	1	2	1	2	2	3	14
9	2	1	1	1	1	1	3	3	1	1	1	2	1	1	1	1	2	1	1	2	1	1	3	3	14
10	3	3	5	4	5	4	4	4	1	1	5	5	4	3	3	2	3	3	5	5	5	4	4	4	33
11	4	3	3	3	3	3	3	2	3	2	3	3	3	2	2	1	4	3	3	3	3	3	3	2	24
12	3	2	2	1	1	2	2	4	3	2	3	2	2	2	2	2	3	2	3	2	2	2	2	4	20
13	1	1	1	1	q	q	4	4	1	1	1	2	q	q	3	3	1	1	1	2	q	q	4	4	13+
14	4	3	4	3	4	4	6	5	4	3	5	5	4	1	3	5	4	3	5	5	4	4	6	5	36
15	5	3	3	2	2	3	3	2	5	3	3	3	2	2	1	1	5	3	3	3	2	3	3	2	24
16	2	2	0	0	1	2	1	4	1	1	0	1	1	1	1	2	2	2	0	1	1	2	1	4	13
17	3	2	1	1	3	3	2	3	2	3	2	3	4	2	1	1	3	3	2	3	4	3	2	3	23
18	3	3	4	3	4	4	4	3	1	2	5	4	4	2	2	1	3	3	5	4	4	4	4	3	30
19	3	1	0	0	0	3	2	3	3	1	1	2	2	2	2	1	3	1	1	2	2	3	2	3	17
20	3	3	3	4	3	3	4	4	1	3	4	4	3	2	3	1	3	3	4	4	3	3	4	4	28
21	5	3	3	3	3	4	4	5	4	4	4	5	4	3	4	4	5	4	4	5	4	4	4	5	35
22	4	3	2	4	q	q	q	3	2	2	2	4	3	q	q	q	4	3	2	4	3	q	q	3	19+
23	3	q	3	q	q	3	3	3	q	3	q	3	3	q	3	q	3	3	3	3	3	3	3	3	24
24	q	q	q	q	q	3	q	q	q	q	q	3	q	3	3	q	q	q	q	3	q	3	3	q	9+
25	3	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	3	q	q	q	q	q	q	q	3+
26	q	q	q	q	q	3	3	3	q	q	q	3	3	1	2	2	q	q	q	3	3	3	3	3	15+
27	3	1	1	1	1	1	1	3	2	3	2	2	1	1	1	1	3	3	2	2	1	1	1	3	16
28	2	q	q	q	q	q	3	q	1	q	q	q	q	q	q	q	2	q	q	q	q	q	3	q	5+
29	4	4	3	2	2	2	3	q	q	1	3	3	3	1	q	q	4	4	3	3	3	2	3	q	22+
30	2	1	0	1	1	1	1	2	1	0	0	2	0	0	0	0	2	1	0	2	1	1	1	2	10
31	1	2	1	1	1	2	2	1	1	1	1	2	2	1	1	0	1	2	1	2	2	2	2	1	13

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2. Time

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Sensitive magnetogram.	Insensitive magnetogram
Temperature trace.	D trace
H trace.	D base-line (double, upper line is used).
H base-line.	H base-line.
(Temperature trace reflection, sometimes present)	Temperature trace
D base-line.	H trace.
D trace.	Z base-line and trace.
Z base-line and trace.	

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H base-line values increase with increasing temperature.
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FEBRUARY 1960

	SENSITIVE MAGNETOGRAM	INSENSITIVE MAGNETOGRAM
Temperature trace:		
Scale Value	0.527°C/mm.	
Base Line	- 31.5°C.	
Parallax Correction	+ 4 minutes	
Horizontal Force trace:		
Scale Value	4.39 γ /mm.	
Base Lines	1: 23,300γ (at 0°C) 2: 23,299γ (" ") 3-29: 23,298γ (" ")	
Temperature Coefficient:	4.2 γ /°C.	
Parallax correction	+ 2 minutes	
Declination trace:		
Scale Value:	0.92' /mm.	
Base Line (Actual):	17°32'.4 E.	
Parallax Correction:	+ 1 minute.	
Vertical Force trace:		
Scale Value:	4.15 γ /mm.	
Base Lines:	1-15: - 36,609 γ (at 0°C) 16-21: - 36,610 γ (" ") 22-23: - 36,611 γ (" ") 24-29: - 36,612 γ (" ")	
Temperature coefficient:	2.1 γ /°C.	
Parallax Correction	Nil.	
Distance between baselines:	H to D: 37.1 mm. D to Z: 156.3 mm.	

ARGENTINE ISLANDS A.973 — FEBRUARY 1960

Lower limit K9: 500 γ — Scale values: H, 4.39 γ/__; D, 6.28 γ/__.

	K_H								K_D								$Max(K_H, K_D)$								
	B1	B2	B3	B4	B5	B6	B7	B8	B1	B2	B3	B4	B5	B6	B7	B8	B1	B2	B3	B4	B5	B6	B7	B8	Sum
1	1	3	2	2	2	2	2	1	0	3	3	3	3	1	0	0	1	3	3	3	3	2	2	1	18
2	2	1	2	2	2	3	4	3	1	1	2	3	3	2	2	2	2	1	2	3	3	3	4	3	21
3	2	1	2	2	2	4	4	3	1	2	2	3	4	2	2	4	2	2	2	3	4	4	4	4	25
4	3	3	2	2	2	2	4	4	3	3	3	4	3	2	3	2	3	3	3	4	3	2	4	4	26
5	2	1	2	4	4	3	3	3	1	1	2	4	4	3	3	1	2	1	2	4	4	3	3	3	22
6	4	4	3	1	1	3	2	3	5	4	4	2	1	2	1	1	5	4	4	2	1	3	2	3	24
7	3	3	1	1	1	1	1	2	1	3	1	2	1	0	1	1	3	3	1	2	1	1	1	2	14
8	2	3	4	3	3	2	1	2	0	1	2	3	3	1	1	1	2	3	4	3	3	2	1	2	20
9	3	1	0	0	1	2	3	2	2	1	0	1	1	1	1	1	3	1	0	1	1	2	3	2	13
10	1	2	1	1	1	1	1	1	1	2	2	2	2	0	1	0	1	2	2	2	2	1	1	1	12
11	1	1	1	1	1	2	3	4	0	0	1	2	1	1	2	1	1	1	1	2	1	2	3	4	15
12	2	1	2	1	1	0	2	0	2	1	1	1	2	0	1	0	2	1	2	1	2	0	2	0	10
13	1	1	2	2	1	1	3	5	0	0	2	2	1	1	1	5	1	1	2	2	1	1	3	5	16
14	4	3	3	2	3	3	3	3	5	4	4	3	2	2	5	3	5	4	4	3	3	3	5	3	30
15	2	0	1	1	2	3	3	2	1	0	0	1	2	2	1	1	2	0	1	1	2	3	3	2	14
16	2	2	2	3	4	4	3	3	3	3	2	4	5	4	1	2	3	3	2	4	5	4	3	3	27
17	4	3	4	3	2	2	3	4	4	2	3	4	3	1	2	2	4	3	4	4	3	2	3	4	27
18	4	4	3	2	1	3	3	3	5	4	3	3	2	2	3	1	5	4	3	3	2	3	3	3	26
19	2	2	2	2	2	3	4	3	1	2	3	3	2	2	3	2	2	2	3	3	2	3	4	3	22
20	3	4	2	2	2	2	2	3	3	3	2	2	3	1	2	1	3	4	2	2	3	2	2	3	21
21	3	3	3	3	2	3	2	2	2	2	3	3	2	2	2	1	3	3	3	3	2	3	2	2	21
22	2	1	3	1	2	2	3	3	1	1	2	2	2	1	2	1	2	1	3	2	2	2	3	3	18
23	1	3	1	1	1	3	1	1	1	1	1	2	2	2	1	0	1	3	1	2	2	3	1	1	14
24	1	2	1	0	0	0	2	2	1	2	0	1	1	0	1	0	1	2	1	1	1	0	2	2	10
25	1	0	1	0	1	1	2	2	1	0	1	0	0	0	1	1	1	0	1	0	1	1	2	2	8
26	0	0	0	1	1	2	2	2	0	0	1	2	2	1	1	1	0	0	1	2	2	2	2	2	11
27	2	3	4	3	2	3	4	3	3	4	4	3	3	2	2	1	3	4	4	3	3	3	4	3	27
28	1	3	2	1	1	2	1	2	1	1	2	2	1	1	0	1	1	3	2	2	1	2	1	2	14
29	3	3	3	1	2	1	3	4	3	3	4	3	2	1	2	2	3	3	4	3	2	1	3	4	23

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3. Order of traces, from top to bottom:

Sensitive magnetogram.	Insensitive magnetogram
Temperature trace.	D trace
H trace.	D base-line (double, upper line is used).
H base-line.	H base-line.
(Temperature trace reflection, sometimes present)	Temperature trace
D base-line.	H trace.
D trace.	Z base-line and trace.
Z base-line and trace.	

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H base-line values increase with increasing temperature.
Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

	SENSITIVE MAGNETOGRAM	INSENSITIVE MAGNETOGRAM
Temperature trace		
Scale Value:	0.527°C /mm.	
Base Lines:	1-22 (1450Z) : - 31.5°C. 22(1450Z)-27 (2314Z) : - 33.2°C. 27(2314Z)-31 : - 33.6°C.	
Parallax Correction:	+ 4 minutes.	
Horizontal Force Trace:		
Scale Value:	4.39 γ /mm.	
Base Lines	1-20: 23,298 γ (at 0°C) 21-27: 23,297 γ (" ") 28-31: 23,300 γ (" ")	
Temperature Coefficient:	4.2 γ /°C.	
Parallax Correction:	+ 2 minutes	
Reflection distance:		
Main trace to 1st refl. down	93.5 mm.	
Declination trace:		
Scale Value:	0.92' /mm.	
Base Lines (Actual)	1-22 (1450Z) : 17° 38'.4 E. 22nd(1450Z) -27th: 17° 38'.0 E. 28-31 : 17° 37'.7 E.	
Parallax Correction:	+ 1 minute.	
Vertical Force trace:		
Scale Value:	4.15 γ /mm.	11.25 γ /mm.
Base Lines:	1-9: - 36,612 γ (at 0°C) 10: - 36,613 γ (" ") 11-31: - 36,614 γ (" ")	31: - 36,891 γ (Actual)
Temperature coefficient:	2.1 γ /°C.	
Parallax Correction:	Nil.	- 2 minutes.

Distance between baselines:

1-22:	H to D: 37.1 mm. D to Z: 136.3 mm.	31: D to H: 46.6 mm. H to Z: 131.2 mm.
22-27:	H to D: 37.5 mm.) Bulb D to Z: 131.7 mm.) changed	
27-31:	H to D: 37.6 mm.) Bulb D to Z: 131.3 mm.) adjusted	

ARGENTINE ISLANDS A.973 — MARCH 1960

Lower limit K9: 500 ɣ — Scale values: H, 4.39 ɣ/__; D, 6.28 ɣ/__.

	K_H								K_D								$Max(K_H, K_D)$								
Day	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	Sum
1	2	3	3	3	2	3	2	3	3	3	3	2	2	1	2	2	3	3	3	3	2	3	2	3	22
2	3	3	3	2	2	2	3	3	4	3	4	4	3	1	2	2	4	3	4	4	3	2	3	3	26
3	2	3	3	3	2	2	2	3	1	3	4	3	3	2	2	1	2	3	4	3	3	2	2	3	22
4	2	2	2	2	3	3	3	3	1	2	2	2	3	2	1	3	2	2	2	2	3	3	3	3	20
5	2	2	3	1	2	3	2	2	1	3	4	2	3	2	2	3	2	3	4	2	3	3	2	3	22
6	3	4	2	2	1	2	2	2	3	4	1	2	1	1	2	1	3	4	2	2	1	2	2	2	18
7	0	2	1	1	1	0	3	1	1	1	1	1	1	0	1	0	1	2	1	1	1	0	3	1	10
8	0	2	3	1	2	2	3	3	1	2	5	4	2	2	1	1	1	2	5	4	2	2	3	3	22
9	2	3	2	2	3	3	2	2	1	2	2	3	3	2	1	1	2	3	2	3	3	3	2	2	20
10	2	2	4	3	2	3	4	2	1	2	4	5	2	3	2	2	2	2	4	5	2	3	4	2	24
11	3	3	2	4	3	3	4	2	2	2	3	4	4	3	2	2	3	3	3	4	4	3	4	2	26
12	1	2	2	1	2	2	2	2	1	1	2	2	2	2	1	1	1	2	2	2	2	2	2	2	15
13	2	1	1	2	1	1	2	2	1	1	2	2	2	2	1	2	2	1	2	2	2	2	2	2	15
14	1	1	1	2	1	2	1	2	1	1	1	2	1	1	1	1	1	1	1	2	1	2	1	2	11
15	2	1	1	1	2	2	4	4	1	0	1	1	3	2	4	3	2	1	1	1	3	2	4	4	18
16	5	4	5	3	2	3	4	4	7	5	5	2	2	3	3	4	7	5	5	3	2	3	4	4	33
17	2	3	2	2	1	2	2	2	3	3	2	2	1	2	2	1	3	3	2	2	1	2	2	2	17
18	2	3	3	2	2	1	1	2	2	3	3	2	2	1	1	1	2	3	3	2	2	1	1	2	16
19	1	2	2	3	1	1	1	1	2	1	1	2	1	1	1	0	2	2	2	3	1	1	1	1	13
20	1	2	0	1	0	1	0	1	0	2	2	1	0	1	0	0	1	2	2	1	0	1	0	1	8
21	1	2	2	1	3	1	0	0	0	1	2	2	2	1	0	0	1	2	2	2	3	1	0	0	11
22	1	0	0	1	1	0	1	2	1	2	1	1	1	0	0	1	1	2	1	1	1	0	1	2	9
23	2	2	0	0	0	0	1	2	2	1	1	1	0	0	1	1	2	2	1	1	0	0	1	2	8
24	3	3	2	1	1	2	3	2	4	3	2	2	1	1	2	1	4	3	2	2	1	2	3	2	19
25	1	1	1	1	1	0	1	2	0	1	1	1	1	0	1	1	1	1	1	1	1	0	1	2	8
26	2	0	2	2	0	1	1	0	2	0	2	2	1	1	1	0	2	0	2	2	1	1	1	0	9
27	2	3	2	2	1	0	0	0	1	2	3	3	1	0	0	0	2	3	3	3	1	0	0	0	12
28	0	2	3	3	1	3	3	3	0	1	3	4	2	1	3	2	0	2	3	4	2	3	3	3	20
29	4	3	3	2	1	1	1	3	5	3	5	3	1	1	0	5	5	3	5	3	1	1	1	5	24
30	3	2	2	1	2	2	2	4	5	2	2	3	3	2	1	4	5	2	2	3	3	2	2	4	23
31	3	3	3	6	5	6	5	7	3	4	5	5	5	5	5	8	3	4	5	6	5	6	5	8	42

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1960

FROM ARGENTINE ISLANDS A.973

LAT.	-65° 15'
LONG.	295° 44'
GEOMAGNETIC LAT.	-53.8°
GEOMAGNETIC LONG.	3.3°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1960

1. Instruments

These are standard La Cour variometers, recording H, D, and Z.

2. Time

Charts were changed at Greenwich midnight, so that each chart shows a complete Greenwich day. The master clock was adjusted to keep the clock error less than ½ minute.

The parallax correction for each trace is given opposite. The correction is to be added to the times read from the magnetograms.

3. Order of traces, from top to bottom:

Sensitive magnetogram.	Insensitive magnetogram
Temperature trace.	D trace
H trace.	D base-line (double, upper line is used).
H base-line.	H base-line.
(Temperature trace reflection, sometimes present)	Temperature trace
D base-line.	H trace.
D trace.	Z base-line and trace.
Z base-line and trace.	

4. Sense of traces.

All magnetograms: Temperature increases up the sheet.
H increases up the sheet.
D increases easterly up the sheet.
Z increases down the sheet.
(N.B. Z is negative, hence as Z increases, modulus of Z decreases).

5. Temperature coefficients.

The sensitive H and Z variometers have appreciable temperature coefficients.
H base-line values increase with increasing temperature.
Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

	SENSITIVE MAGNETOGRAM	INSENSITIVE MAGNETOGRAM
Temperature trace		
Scale Value:	0.527°C /mm.	
Base Line:	- 33.6°C	
Parallax Correction:	+ 4 minutes	
Horizontal Force trace:		
Scale Value:	4.39 γ /mm.	16.0 γ /mm.
Base Lines:	1-5: 23,300 γ (at 0 C) 6-14: 23,299 γ (" ") 15-18: 23,298 γ (" ") 19-30: 23,297 γ (" ")	1: 24,007 γ (Actual) 15: 24,000 γ (") 30: 23,993 γ (")
Temperature coefficient	4.2 γ/°C.	
Parallax correction	+ 2 minutes	Nil.
Reflection distance		
Main trace to 1st refl. down	93.3 mm.	
Declination trace:		
Scale Value:	0.92′ /mm.	2.39′ /mm.
Base Lines (Actual)	17° 37.7′ E.	1: 16° 32.0′ E. 15: 16° 31.9′ E.
Parallax correction	+ 1 minute	- 1 minute
Reflection distance:		
Main trace to 1st refl. down		76.3 mm.
Vertical Force trace		
Scale Value:	4.15 γ /mm.	11.25 γ /mm.
Base Lines:	1-28: -36,614 γ (at 0°C) 29: -36,613 γ (" ") 30: -36,612 γ (" ")	1: -36,892 γ (Actual) 15: -36,894 γ (") 30: -36,893 γ (")
Temperature coefficient	2.1 γ /°C.	
Parallax correction	Nil	- 2 minutes.
Reflection distance		
Main trace to 1st refl. down	80.0 mm.	
Distance between baselines	H to D: 37.6 mm.	D to H: 46.6 mm.
	D to Z: 131.2 mm.	H to Z: 131.2 mm.

ARGENTINE ISLANDS A.973

APRIL 1960

Lower Limit K9 : 500 γ

Scale values: H,4.39 γ/..; D,6.28 γ/...

	K_H								K_D								Max(K_H,K_D)								
	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	Sum
Day																									
1	8	7	5	6	7	7	7	5	7	9	5	6	6	6	6	5	8	9	5	6	7	7	7	5	54
2	5	5	4	5	3	1	3	4	6	5	4	4	2	1	1	2	6	5	4	5	3	1	3	4	31
3	5	5	4	3	2	3	3	2	4	6	7	2	3	2	3	0	5	6	7	3	3	3	3	2	32
4	2	4	2	2	2	3	3	4	1	2	1	2	3	2	3	4	2	4	2	2	3	3	3	4	23
5	3	5	4	2	3	3	2	1	2	4	3	2	3	3	1	0	3	5	4	2	3	3	2	1	23
6	0	3	3	1	2	3	3	3	0	3	2	2	1	4	1	2	0	3	3	2	2	4	3	3	20
7	3	3	2	0	0	3	3	2	4	4	2	0	1	2	2	2	4	4	2	0	1	3	3	2	19
8	4	2	3	3	1	2	2	2	4	4	3	3	2	1	2	1	4	4	3	3	2	2	2	2	22
9	2	4	3	2	0	1	0	1	3	3	4	2	1	0	1	0	3	4	4	2	1	1	1	1	17
10	2	4	3	3	2	2	3	4	1	4	4	3	2	1	2	6	2	4	4	3	2	2	3	6	26
11	4	3	2	2	2	2	1	3	3	3	2	2	2	2	2	3	4	3	2	2	2	2	2	3	20
12	5	4	2	2	2	2	3	4	5	4	4	2	2	2	2	4	5	4	4	2	2	2	3	4	26
13	4	4	5	1	1	1	2	3	5	5	5	2	1	1	1	2	5	5	5	2	1	1	2	3	24
14	3	2	2	3	2	1	2	3	4	3	2	2	2	1	2	2	4	3	2	3	2	1	2	3	20
15	3	5	q	q	q	q	q	q	q	5	3	q	q	q	q	q	3	5	3	q	q	q	q	q	11+
16	2	3	1	1	3	3	3	3	2	2	2	2	3	3	3	2	2	3	2	2	3	3	3	3	21
17	4	3	3	2	1	2	2	4	6	4	4	3	1	2	3	4	6	4	4	3	1	2	3	4	27
18	4	3	3	3	1	2	1	1	6	2	3	4	2	1	1	1	6	3	3	4	2	2	1	1	22
19	1	2	1	0	0	0	0	0	1	2	1	0	0	0	0	0	1	2	1	0	0	0	0	0	4
20	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	1	1	1	0	0	0	0	0	1	1	2	1	0	0	0	0	1	1	2	1	0	0	0	0	5
23	1	2	2	1	0	0	1	4	0	2	1	0	0	0	1	5	1	2	2	1	0	0	1	5	12
24	6	5	5	3	3	3	3	5	6	6	5	2	4	1	1	6	6	6	5	3	4	3	3	6	36
25	5	3	3	4	4	4	3	3	6	3	4	5	3	2	3	4	6	3	4	5	4	4	3	4	33
26	3	2	3	2	2	2	2	3	3	2	3	2	1	1	1	5	3	2	3	2	2	2	2	5	21
27	2	1	3	1	2	1	3	6	3	2	4	1	2	1	3	6	3	2	4	1	2	1	3	6	22
28	5	6	5	5	5	2	3	3	7	6	6	5	4	2	4	3	7	6	6	5	5	2	4	3	38
29	5	5	4	3	3	2	3	4	6	6	4	4	2	2	3	5	6	6	4	4	3	2	3	5	33
30	6	5	4	4	8	9	7	4	5	7	5	5	7	7	7	5	6	7	5	5	8	9	7	5	52

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1960

FROM ARGENTINE ISLANDS A.973

LAT.	-65° 15'
LONG.	295° 44'
GEOMAGNETIC LAT.	-53.8°
GEOMAGNETIC LONG.	3.3°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1960

1. Instruments

These are standard La Cour variometers, recording H, D, and Z.

2. Time

Charts were changed at Greenwich midnight, so that each chart shows a complete Greenwich day. The master clock was adjusted to keep the clock error less than $\frac{1}{2}$ minute.

The parallax correction for each trace is given opposite. The correction is to be added to the times read from the magnetograms.

3. Order of traces, from top to bottom:

Sensitive magnetogram.	Insensitive magnetogram
Temperature trace.	D trace
H trace.	D base-line (double, upper line is used).
H base-line.	H base-line.
(Temperature trace reflection, sometimes present)	Temperature trace
D base-line.	H trace.
D trace.	Z base-line and trace.
Z base-line and trace.	

4. Sense of traces.

All magnetograms: Temperature increases up the sheet.
H increases up the sheet.
D increases easterly up the sheet.
Z increases down the sheet.
(N.B. Z is negative, hence as Z increases, modulus of Z decreases).

5. Temperature coefficients.

The sensitive H and Z variometers have appreciable temperature coefficients.
H base-line values increase with increasing temperature.
Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

	SENSITIVE MAGNETOGRAM	INSENSITIVE MAGNETOGRAM
Temperature trace:		
Scale Value:	0.527°C /mm.	
Base Line:	- 33.6°C.	
Parallax correction:	+ 4 minutes	
Horizontal Force trace:		
Scale Value:	+.39 γ /mm.	
Base Line	3,+93 γ (at 0°C)	
Temperature coefficient	+.[illegible] γ /°C.	
Parallax correction	+ 2 minutes.	
Declination trace:		
Scale Value:	0.92′ /mm.	
Base Line (Actual):	17° 37.7′ W.	
Parallax correction:	- 1 minute.	
Vertical Force trace:		
Scale Value:	+.15 γ /mm.	
Base Line:	- 36,611 γ (at 0°C)	
Temperature coefficient:	2.1 γ /°C.	
Parallax correction:	1-13: Nil 14-31: - 1 minute	
Distance between baseline:	H to D: 37.6 mm. D to Z: 131.2 mm.	

ARGENTINE ISLANDS A.973 MAY 1960

Scale values: H,4.39 ½_; D,6.28 ½_.

	K_H								K_D								$\max(K_H, K_D)$								
	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	Sum
1	5	5	4	3	2	2	2	4	5	3	4	4	3	2	0	4	5	5	4	4	3	2	2	4	29
2	2	3	2	2	2	2	2	1	3	2	3	2	2	2	1	1	3	3	3	2	2	2	2	1	18
3	1	2	2	2	1	1	1	1	1	1	2	4	2	1	1	1	1	2	2	4	2	1	1	1	14
4	0	1	1	0	1	1	1	2	0	0	1	1	1	1	1	3	0	1	1	1	1	1	1	3	9
5	2	2	1	0	0	0	2	3	0	2	2	1	1	1	1	2	2	2	2	1	1	1	2	3	14
6	4	3	3	3	3	4	5	5	4	3	3	4	3	3	4	4	4	3	3	4	3	4	5	5	31
7	5	4	3	3	4	4	3	5	6	4	3	3	3	3	2	5	6	4	3	3	4	4	3	5	32
8	2	5	4	5	5	6	4	4	4	5	5	6	5	5	3	4	4	5	5	6	5	6	4	4	39
9	3	4	3	3	2	2	0	0	3	1	2	3	2	1	1	0	3	4	3	3	2	2	1	0	18
10	2	1	1	1	1	2	1	4	1	1	2	2	2	2	1	3	2	1	2	2	2	2	1	4	16
11	4	5	5	3	0	0	3	3	4	5	5	5	1	1	1	3	4	5	5	5	1	1	3	3	27
12	2	2	3	3	2	2	2	2	2	4	5	3	2	3	1	2	2	4	5	3	2	3	2	2	23
13	2	2	2	1	1	1	2	3	2	2	1	2	0	1	1	1	2	2	2	2	1	1	2	3	15
14	2	2	2	3	2	1	1	1	3	4	4	3	1	1	1	0	3	4	4	3	2	1	1	1	19
15	0	1	1	2	1	1	0	0	0	2	3	2	1	0	1	0	0	2	3	2	1	1	1	0	10
16	1	1	0	0	3	4	4	4	1	2	1	2	3	3	3	3	1	2	1	2	3	4	4	4	21
17	3	2	3	2	3	1	1	0	2	1	2	3	2	1	0	0	3	2	3	3	3	1	1	0	16
18	2	2	2	1	0	0	1	0	2	3	2	1	1	0	0	0	2	3	2	1	1	0	1	0	10
19	2	2	3	1	0	0	0	0	2	0	3	2	0	0	0	1	2	2	3	2	0	0	0	1	10
20	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
21	2	0	1	1	0	0	0	0	1	0	1	1	0	0	0	0	2	0	1	1	0	0	0	0	4
22	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	4
23	0	1	1	0	3	3	4	4	0	0	1	1	2	1	3	3	0	1	1	1	3	3	4	4	17
24	3	4	5	3	2	0	3	4	3	4	5	4	2	2	3	4	3	4	5	4	2	2	3	4	27
25	3	3	2	2	2	3	3	3	5	4	3	2	3	2	2	2	5	4	3	2	3	3	3	3	26
26	4	4	3	2	2	2	2	3	5	4	4	3	2	1	1	3	5	4	4	3	2	2	2	3	25
27	4	4	1	0	0	0	2	2	5	4	1	0	0	0	1	2	5	4	1	0	0	0	2	2	14
28	3	1	0	0	0	0	4	3	3	1	1	2	0	0	3	2	3	1	1	2	0	0	4	3	14
29	6	4	4	2	3	2	4	4	6	4	4	2	2	2	4	3	6	4	4	2	3	2	4	4	29
30	3	2	2	4	4	0	1	1	1	1	2	4	4	2	1	1	3	2	2	4	4	2	1	1	19
31	2	2	2	2	1	2	2	3	2	2	2	1	1	0	1	1	2	2	2	2	1	2	2	3	16

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1960

FROM ARGENTINE ISLANDS A.973

LAT.	-65° 15'
LONG.	295° 44'
GEOMAGNETIC LAT.	-53.8°
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ORIGINAL RECORDS HELD AT:-

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EXPLANATORY NOTES 1960

1. Instruments

These are standard La Cour variometers, recording H, D, and Z.

2. Time

Charts were changed at Greenwich midnight, so that each chart shows a complete Greenwich day. The master clock was adjusted to keep the clock error less than ½ minute.

The parallax correction for each trace is given opposite. The correction is to be added to the times read from the magnetograms.

3. Order of traces, from top to bottom:

Sensitive magnetogram.	Insensitive magnetogram
Temperature trace.	D trace
H trace.	D base-line (double, upper line is used).
H base-line.	H base-line.
(Temperature trace reflection, sometimes present)	Temperature trace
D base-line.	H trace.
D trace.	Z base-line and trace.
Z base-line and trace.	

4. Sense of traces.

All magnetograms: Temperature increases up the sheet.
H increases up the sheet.
D increases easterly up the sheet.
Z increases down the sheet.
(N.B. Z is negative, hence as Z increases, modulus of Z decreases).

5. Temperature coefficients.

The sensitive H and Z variometers have appreciable temperature coefficients.
H base-line values increase with increasing temperature.
Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

	SENSITIVE MAGNETOGRAM	INSENSITIVE MAGNETOGRAM
Temperature trace:		
Scale Value:	0.527°C/mm.	
Base Line:	- 33.6°C.	
Parallax correction:	+ 4 minutes.	
Horizontal Force trace:		
Scale Value:	4.39 γ /mm.	
Base Lines:	1-6: 23,298 γ (at 0°C) 7: 23,299 γ (" ") 8-24: 23,300 γ (" ") 25: 23,299 γ (" ") 26: 23,298 γ (" ") 27-30: 23,297 γ (" ")	
Temperature coefficient	4.2 γ /°C.	
Parallax correction:	+ 2 minutes	
Declination trace:		
Scale Value:	0.92′/mm.	
Baseline: (actual)	17° 37.7′ E.	
Parallax correction:	+ 1 minute	
Vertical Force trace.		
Scale Value	4.15 γ /mm.	
Baselines:	1-22: -36,611 γ (at 0°C) 23: -36,612 γ (" ") 24-30: -36,613 γ (" ")	
Temperature coefficient:	2.1 γ /°C.	
Parallax correction:	+ 1 minute	

Distance between baselines: H to D: 37.6 mm.
D to Z: 151.2 mm.
(Time mark bulb failed 23rd - replaced 24th).

ARGENTINE ISLANDS A.973 **JUNE 1960**

Lower limit K9 : 500 γ **Scale values: H,4.39 γ/mm ; D,6.28 γ/mm.**

	K_H								K_D								$Max(K_H, K_D)$								
	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	Sum
Day																									
1	3	5	4	4	4	1	0	0	4	4	5	5	3	1	0	0	4	5	5	5	4	1	0	0	24
2	2	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	2	0	0	1	0	0	1	0	4
3	0	0	0	0	0	0	2	2	0	0	0	0	0	0	1	2	0	0	0	0	0	0	2	2	4
4	4	5	5	3	2	2	2	4	3	5	6	5	1	1	2	3	4	5	6	5	2	2	2	4	30
5	4	4	5	4	2	2	2	2	5	5	5	6	4	1	1	1	5	5	5	6	4	2	2	2	31
6	4	3	3	2	2	2	1	1	5	5	4	4	2	2	0	2	5	5	4	4	2	2	1	2	25
7	3	3	3	2	1	0	1	0	3	3	2	3	1	0	1	1	3	3	3	3	1	0	1	1	15
8	3	4	3	3	1	1	2	4	3	5	4	3	1	1	2	3	3	5	4	3	1	1	2	4	23
9	3	5	3	2	1	1	2	0	4	4	3	3	1	1	1	0	4	5	3	3	1	1	2	0	19
10	0	2	0	0	0	1	2	2	2	1	1	0	1	1	1	1	2	2	1	0	1	1	2	2	11
11	1	1	1	0	0	0	0	0	3	2	0	1	0	0	0	0	3	2	1	1	0	0	0	0	7
12	0	0	1	0	0	0	1	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	1	0	3
13	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	4
14	1	1	3	2	3	1	1	1	1	1	3	3	2	1	2	1	1	1	3	3	3	1	2	1	15
15	1	0	3	1	2	0	0	0	2	0	4	3	2	1	1	0	2	0	4	3	2	1	1	0	13
16	1	3	0	0	0	0	0	0	1	2	3	0	0	0	0	0	1	3	3	0	0	0	0	0	7
17	2	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	3
18	2	1	1	2	1	2	1	1	3	2	2	3	2	2	2	0	3	2	2	3	2	2	2	1	17
19	3	3	3	3	2	1	3	3	2	3	4	4	2	1	1	1	3	3	4	4	2	1	3	3	23
20	2	3	2	1	0	0	1	1	4	3	3	1	1	0	0	3	4	3	3	1	1	0	1	3	16
21	2	3	3	3	1	2	2	2	2	4	3	5	2	2	1	2	2	4	3	5	2	2	2	2	22
22	2	3	2	1	1	0	1	2	5	5	3	1	1	0	1	2	5	5	3	1	1	0	1	2	16
23	3	3	1	1	1	2	1	2	4	4	4	1	1	1	0	1	4	4	4	1	1	2	1	2	19
24	3	2	3	1	1	0	2	3	2	2	3	3	1	0	3	1	3	2	3	3	1	0	3	3	18
25	4	3	1	1	2	2	3	5	3	2	1	1	3	2	3	5	4	3	1	1	3	2	3	5	22
26	4	4	3	1	1	1	2	3	5	5	4	2	1	1	1	4	5	5	4	2	1	1	2	4	24
27	5	5	3	3	2	3	3	4	5	6	5	3	2	2	3	5	5	6	5	3	2	3	3	5	32
28	3	4	3	4	2	2	3	4	2	2	3	4	3	1	2	3	3	4	3	4	3	2	3	4	26
29	4	4	3	0	0	1	4	5	3	4	4	2	0	1	2	5	4	4	4	2	0	1	4	5	24
30	5	5	1	3	2	2	4	3	5	5	3	2	2	2	2	3	5	5	3	3	2	2	4	3	27

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1960

FROM ARGENTINE ISLANDS A.973

LAT.	-65° 15'
LONG.	295° 44'
GEOMAGNETIC LAT.	-53.8°
GEOMAGNETIC LONG.	3.3°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1960

1. Instruments

These are standard La Cour variometers, recording H, D, and Z.

2. Time

Charts were changed at Greenwich midnight, so that each chart shows a complete Greenwich day. The master clock was adjusted to keep the clock error less than ½ minute.

The parallax correction for each trace is given opposite. The correction is to be added to the times read from the magnetograms.

3. Order of traces, from top to bottom:

Sensitive magnetogram.	Insensitive magnetogram
Temperature trace.	D trace
H trace.	D base-line (double, upper line is used).
H base-line.	H base-line.
(Temperature trace reflection, sometimes present)	Temperature trace
D base-line.	H trace.
D trace.	Z base-line and trace.
Z base-line and trace.	

4. Sense of traces.

All magnetograms: Temperature increases up the sheet.
H increases up the sheet.
D increases easterly up the sheet.
Z increases down the sheet.
(N.B. Z is negative, hence as Z increases, modulus of Z decreases).

5. Temperature coefficients.

The sensitive H and Z variometers have appreciable temperature coefficients.
H base-line values increase with increasing temperature.
Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

	SENSITIVE MAGNETOGRAM	INSENSITIVE MAGNETOGRAM
Temperature trace:		
Scale Value:	0.527°C/mm.	
Base Line:	- 33.6°C.	
Parallax Correction:	+ 4 minutes.	
Horizontal Force trace:		
Scale Value:	4.39 γ /mm.	
Base Lines:	1-8: 23,297 γ (at 0°C) 9: 23,296 γ (" ") 10: 23,295 γ (" ") 11-20: 23,294 γ (" ") 21: 23,295 γ (" ") 22-29: 23,296 γ (" ") 30: 23,297 γ (" ") 31: 23,298 γ (" ")	
Temperature coefficient:	4.2 γ /°C.	
Parallax correction:	+ 2 minutes.	
Reflection distance:		
Main trace to 1st refl. down:	93.5 mm.	
Declination trace:		
Scale Value:	0.92' /mm.	
Baseline (Actual)	17°37.7 E.	
Parallax correction:	+ 1 minute.	
Vertical Force trace:		
Scale Value:	4.15 γ /mm.	
Base Lines:	1-7: -36,613 γ (at 0°C) 8: -36,614 γ (" ") 9: -36,615 γ (" ") 10: -36,616 γ (" ") 11-20: -36,617 γ (" ") 21-24: -36,618 γ (" ") 25-31: -36,619 γ (" ")	
Temperature coefficient:	2.1 γ /mm.°C	
Parallax correction:	+ 1 minute.	
Distance between baselines:	H to D: 37.7 mm.	
	D to Z: 131.2 mm.	

ARGENTINE ISLANDS A.973 **JULY 1960**

Lower limit K9 : 500 γ **Scale values: H,4.39 γ/__; D,6.28 γ/__.**

Day	K_H								K_D								$Max(K_H,K_D)$								
	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	Sum
1	4	3	3	2	2	0	2	1	5	5	3	4	2	2	2	2	5	5	3	4	2	2	2	2	25
2	3	3	2	2	2	1	0	0	3	4	3	3	1	1	1	1	3	4	3	3	2	1	1	1	18
3	1	3	1	0	0	1	3	3	2	3	3	3	1	1	2	2	2	3	3	3	1	1	3	3	19
4	3	3	3	2	1	1	1	2	5	4	4	4	1	2	1	2	5	4	4	4	1	2	1	2	23
5	3	3	3	2	2	1	2	2	3	2	4	3	3	1	1	2	3	3	4	3	3	1	2	2	21
6	3	2	0	4	1	2	0	0	3	2	1	4	1	1	1	0	3	2	1	4	1	2	1	0	14
7	0	0	1	1	0	1	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	1	0	0	3
8	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
9	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1
10	3	2	2	0	1	0	0	1	3	2	1	1	0	0	0	2	3	2	2	1	1	0	0	2	11
11	3	2	2	1	1	1	1	2	2	2	2	1	0	0	1	1	3	2	2	1	1	1	1	2	13
12	3	3	2	2	1	0	1	1	3	2	3	3	1	0	1	1	3	3	3	3	1	0	1	1	15
13	2	3	3	2	0	1	3	3	1	2	2	2	1	1	1	2	2	3	3	2	1	1	3	3	18
14	0	3	1	3	2	3	3	4	0	4	4	4	2	3	2	3	0	4	4	4	2	3	3	4	24
15	2	4	3	4	4	5	5	5	1	3	4	6	4	4	3	6	2	4	4	6	4	5	5	6	36
16	7	5	5	3	3	2	3	3	8	5	5	5	4	3	2	3	8	5	5	5	4	3	3	3	36
17	5	3	4	2	0	0	0	3	6	4	4	5	2	2	0	4	6	4	4	5	2	2	0	4	27
18	4	3	3	1	1	1	1	0	3	2	4	1	1	1	1	1	4	3	4	1	1	1	1	1	16
19	0	2	4	4	2	2	3	4	0	1	5	6	3	2	3	5	0	2	5	6	3	2	3	5	26
20	4	3	1	2	2	1	3	4	5	2	2	3	2	1	2	4	5	3	2	3	2	1	3	4	23
21	2	4	1	0	1	1	0	2	2	4	3	0	1	1	0	2	2	4	3	0	1	1	0	2	13
22	1	3	2	1	1	1	0	3	2	3	3	2	1	0	1	3	2	3	3	2	1	1	1	3	16
23	5	1	1	0	0	0	1	0	5	2	2	0	0	0	0	0	5	2	2	0	0	0	1	0	10
24	2	3	2	1	0	0	1	0	3	2	2	0	0	0	0	0	3	3	2	1	0	0	1	0	10
25	0	1	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	1	3
26	1	1	0	0	1	1	1	4	1	1	0	0	1	0	1	3	1	1	0	0	1	1	1	4	9
27	3	1	2	1	0	0	0	0	2	0	1	0	0	0	0	0	3	1	2	1	0	0	0	0	7
28	0	1	1	1	1	0	1	1	0	0	1	1	2	0	0	0	0	1	1	1	2	0	1	1	7
29	3	3	3	2	2	2	3	3	5	4	4	2	1	2	2	1	5	4	4	2	2	2	3	3	25
30	4	4	2	3	1	1	1	2	3	4	3	3	2	1	1	1	4	4	3	3	2	1	1	2	20
31	5	3	4	3	2	2	2	3	6	5	5	4	2	2	2	3	6	5	5	4	2	2	2	3	29

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1960

FROM ARGENTINE ISLANDS A.973

LAT.	-65° 15'
LONG.	295° 44'
GEOMAGNETIC LAT.	-53.8°
GEOMAGNETIC LONG.	3.3°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1960

1. Instruments

These are standard La Cour variometers, recording H, D, and Z.

2. Time

Charts were changed at Greenwich midnight, so that each chart shows a complete Greenwich day. The master clock was adjusted to keep the clock error less than ½ minute.

The parallax correction for each trace is given opposite. The correction is to be added to the times read from the magnetograms.

3. Order of traces, from top to bottom:

Sensitive magnetogram.	Insensitive magnetogram
Temperature trace.	D trace
H trace.	D base-line (double, upper line is used).
H base-line.	H base-line.
(Temperature trace reflection, sometimes present)	Temperature trace
D base-line.	H trace.
D trace.	Z base-line and trace.
Z base-line and trace.	

4. Sense of traces.

All magnetograms: Temperature increases up the sheet.
H increases up the sheet.
D increases easterly up the sheet.
Z increases down the sheet.
(N.B. Z is negative, hence as Z increases, modulus of Z decreases).

5. Temperature coefficients.

The sensitive H and Z variometers have appreciable temperature coefficients.
H base-line values increase with increasing temperature.
Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

	SENSITIVE MAGNETOGRAM	INSENSITIVE MAGNETOGRAM
Temperature trace:		
Scale Value:	0.527 °C/mm.	
Base Line:	- 33.6°C.	
Parallax correction:	+ 4 minutes	
Horizontal force trace:		
Scale Value:	4.39 γ /mm.	16.0 γ /mm.
Base Line:	25,298 γ (at 0°C).	24,007 γ (Actual)
Temperature coefficient:	4.2 γ /°C.	
Parallax correction:	+ 2 minutes	Nil.
Declination trace:		
Scale Value:	0.52' /mm.	2.39' /mm.
Base Line (actual)	17° 37.7' W.	18° 32.0' W.
Parallax correction:	1-21: + 1 minute 22-31: - 1 minute	(All days) - 1 minute.
Vertical Force trace		
Scale Value:	1-21: 4.15 γ /mm. 22-31: 4.00 γ /mm.	(All days) 11.25 γ /mm.
Base Lines:	1-21: -36,619 γ (at 0°C) 22-29: -36,501 γ (" ") 30: -36,482 γ (" ") 31: -36,503 γ (" ")	(All days) -36,503 γ (Actual)
Temperature coefficient	2.1 γ /°C.	
Parallax correction:	+ 1 minute	+ 4 minutes
Reflection distance		
Main trace to 1st refl. up:	80.1 mm.	
Distance between baselines:	1- 1: H to D: 37.7 mm. D to Z: 131.2 mm.	(All days) D to H: 46.6 mm. H to Z: 131.2 mm.
	2-15: H to D: 40.7 mm. D to Z: 128.2 mm.	
	25-31: H to D: 39.2 mm. D to Z: 135.7 mm.	

ARGENTINE ISLANDS A.973 AUGUST 1960

Lower limit K9 : 500 γ Scale values: H,4.39 γ/m; D,6.28 γ/m.

	K_H								K_D								$Max(K_H,K_D)$								
Day	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	Sum
1	2	3	2	2	2	1	1	2	4	4	3	2	2	2	0	2	4	4	3	2	2	2	1	2	20
2	2	4	2	2	1	1	2	3	3	4	3	3	1	2	1	2	3	4	3	3	1	2	2	3	21
3	2	1	1	0	0	0	1	2	2	1	2	1	0	1	0	2	2	1	2	1	0	1	1	2	10
4	3	3	2	3	1	0	0	0	3	3	2	3	1	0	0	0	3	3	2	3	1	0	0	0	12
5	0	1	1	0	1	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	1	0	0	0	3
6	1	1	2	2	1	0	1	1	0	0	2	2	0	0	0	0	1	1	2	2	1	0	1	1	9
7	3	2	1	1	1	2	0	0	4	2	1	0	0	1	0	0	4	2	1	1	1	2	0	0	11
8	0	2	3	1	1	1	2	3	0	2	3	2	2	1	2	5	0	2	3	2	2	1	2	5	17
9	3	3	2	3	2	0	1	2	3	5	6	4	2	1	1	0	3	5	6	4	2	1	1	2	24
10	2	2	3	2	1	1	1	1	1	1	4	4	3	1	1	1	2	2	4	4	3	1	1	1	18
11	2	4	2	2	1	2	1	2	1	4	3	3	2	2	1	1	2	4	3	3	2	2	1	2	19
12	3	3	4	2	1	1	1	1	3	5	4	5	3	1	1	0	3	5	4	5	3	1	1	1	23
13	1	3	2	1	1	1	0	1	2	3	1	1	1	1	1	1	2	3	2	1	1	1	1	1	12
14	1	2	1	1	0	2	2	2	3	2	2	1	2	3	2	2	3	2	2	1	2	3	2	2	17
15	3	3	0	1	0	0	0	0	3	3	2	2	0	0	0	0	3	3	2	2	0	0	0	0	10
16	0	0	1	0	4	4	4	4	0	0	0	0	4	3	5	5	0	0	1	0	4	4	5	5	19
17	5	5	5	3	3	4	4	4	6	6	5	5	2	5	4	4	6	6	5	5	3	5	4	4	38
18	2	3	4	4	1	1	1	0	3	3	3	5	2	0	0	0	3	3	4	5	2	1	1	0	19
19	2	0	1	1	1	2	3	5	1	0	1	2	1	2	2	4	2	0	1	2	1	2	3	5	16
20	2	3	4	2	1	2	3	3	1	3	6	3	2	2	2	2	2	3	6	3	2	2	3	3	24
21	4	3	2	2	1	2	3	2	4	3	3	2	2	2	2	3	4	3	3	2	2	2	3	3	22
22	4	2	1	0	1	0	2	3	6	3	1	1	0	0	1	4	6	3	1	1	1	0	2	4	18
23	3	2	0	0	0	1	2	0	3	2	1	1	0	0	1	0	3	2	1	1	0	1	2	0	10
24	1	0	1	2	0	0	0	0	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	4+
25	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
26	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	3
27	3	2	2	1	2	3	3	3	3	3	1	1	2	2	2	1	3	3	2	1	2	3	3	3	20
28	3	4	3	0	1	2	0	0	3	4	4	0	2	1	0	0	3	4	4	0	2	2	0	0	15
29	5	5	4	2	3	3	3	5	4	6	5	2	3	3	2	5	5	6	5	2	3	3	3	5	32
30	6	6	5	4	3	2	3	2	4	6	7	4	3	2	2	2	6	6	7	4	3	2	3	2	33
31	2	3	3	3	2	1	1	2	3	4	3	3	1	0	0	2	3	4	3	3	2	1	1	2	19

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1960

FROM ARGENTINE ISLANDS A.973

LAT.	-65° 15'
LONG.	295° 44'
GEOMAGNETIC LAT.	-53.8°
GEOMAGNETIC LONG.	3.3°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1960

1. Instruments

These are standard La Cour variometers, recording H, D, and Z.

2. Time

Charts were changed at Greenwich midnight, so that each chart shows a complete Greenwich day. The master clock was adjusted to keep the clock error less than ½ minute.

The parallax correction for each trace is given opposite. The correction is to be added to the times read from the magnetograms.

3. Order of traces, from top to bottom:

Sensitive magnetogram.	Insensitive magnetogram
Temperature trace.	D trace
H trace.	D base-line (double, upper line is used).
H base-line.	H base-line.
(Temperature trace reflection, sometimes present)	Temperature trace
D base-line.	H trace.
D trace.	Z base-line and trace.
Z base-line and trace.	

4. Sense of traces.

All magnetograms: Temperature increases up the sheet.
H increases up the sheet.
D increases easterly up the sheet.
Z increases down the sheet.
(N.B. Z is negative, hence as Z increases, modulus of Z decreases).

5. Temperature coefficients.

The sensitive H and Z variometers have appreciable temperature coefficients.
H base-line values increase with increasing temperature.
Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

	SENSITIVE MAGNETOGRAM	INSENSITIVE MAGNETOGRAM
Temperature trace:		
Scale Value:	0.527°C/mm.	
Base Line:	- 33.6°C.	
Parallax correction:	+ 4 minutes	
Horizontal Force trace:		
Scale Value:	4.39 γ /mm.	16.0 γ /mm.
Base Lines:	1-15: 23,298 γ (at 0°C) 16-30: 23,297 γ (" ")	(All days:) 24,004 γ (Actual)
Temperature coefficient:	4.2 γ /°C.	
Parallax correction:	+ 3 minutes	Nil.
Declination trace		
Scale Value:	0.52 '/mm.	2.39 '/mm.
Base Line (Actual)	17° 37.7 W.	16° 32.8 W.
Parallax correction:	- 1 minute	- 1 minute
Reflection distance:		
Vertical Force trace:		
Scale Value:	4.00 γ /mm.	11.05 γ /mm.
Base Lines:	1-15: -36,503 γ (at 0°C) 16-28: -36,504 γ (" ") 29-30: -36,505 γ (" ")	(All days) -36,501 γ (Actual)
Temperature coefficient:	2.1 γ /°C.	
Parallax correction:	+ 1 minute	- 2 minutes
Reflection distance		
Main trace to 1st refl. up	30.2 mm.	
Main trace to 1st refl. down		80.3 mm.
Distance between baselines:	H to D: 33.3 mm.	D to H: 46.6 mm.
	D to Z: 135.6 mm.	H to Z: 131.2 mm.

ARGENTINE ISLANDS A.973 SEPTEMBER 1960

Lower limit K9 : 500 γ Scale values: H,4.39 γ/__; D,6.28 γ/__

	K_H								K_D								$Max(K_H,K_D)$								
Day	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	Sum
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	2	2	1	2	2	3	4	0	3	1	1	2	2	3	4	0	3	2	1	2	2	3	4	17
3	3	4	5	1	2	1	2	2	6	4	5	2	1	1	2	1	6	4	5	2	2	1	2	2	24
4	2	3	5	4	3	3	4	6	3	4	5	6	4	3	3	7	3	4	5	6	4	3	4	7	36
5	5	6	7	6	3	3	4	5	6	7	7	6	3	3	3	4	6	7	7	6	3	3	4	5	41
6	5	4	4	1	1	1	2	3	5	4	5	2	1	0	1	5	5	4	5	2	1	1	2	5	25
7	2	1	1	2	3	2	3	4	3	2	1	2	3	2	1	3	3	2	1	2	3	2	3	4	20
8	3	2	3	2	1	2	1	0	3	2	3	2	2	1	2	0	3	2	3	2	2	2	2	0	16
9	3	3	4	2	1	0	1	2	3	3	3	2	2	0	1	2	3	3	4	2	2	0	1	2	17
10	2	2	3	1	1	2	2	0	2	2	3	2	1	1	1	1	2	2	3	2	1	2	2	1	15
11	4	2	2	0	0	1	2	2	4	3	2	0	2	1	2	2	4	3	2	0	2	1	2	2	16
12	3	2	3	2	0	0	1	0	4	1	3	3	1	0	1	0	4	2	3	3	1	0	1	0	14
13	3	4	4	3	1	0	1	2	2	4	5	3	2	0	0	3	3	4	5	3	2	0	1	3	21
14	4	4	2	1	0	0	0	0	5	4	3	2	1	0	0	0	5	4	3	2	1	0	0	0	15
15	0	1	0	0	0	0	1	0	0	2	2	0	1	0	0	0	0	2	2	0	1	0	1	0	6
16	1	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0	1	1	0	0	1	1	0	0	4
17	1	2	0	0	0	1	3	2	0	2	0	0	2	1	1	3	1	2	0	0	2	1	3	3	12
18	4	3	1	1	1	1	1	1	5	4	3	3	3	1	1	1	5	4	3	3	3	1	1	1	21
19	0	0	2	0	0	0	0	0	1	0	1	0	1	0	0	0	1	0	2	0	1	0	0	0	4
20	0	1	1	0	0	1	1	2	0	0	0	0	1	1	0	3	0	1	1	0	1	1	1	3	8
21	1	1	1	0	0	0	0	3	3	0	1	1	2	0	0	2	3	1	1	1	2	0	0	3	11
22	2	1	2	0	1	1	2	2	2	3	2	0	2	2	2	2	2	3	2	0	2	2	2	2	15
23	3	2	3	3	0	0	1	3	3	2	4	4	0	0	1	1	3	2	4	4	0	0	1	3	17
24	4	4	4	4	1	2	2	1	6	5	4	5	2	1	1	1	6	5	4	5	2	2	2	1	27
25	1	1	1	0	0	0	1	1	0	0	0	0	0	0	1	0	1	1	1	0	0	0	1	1	5
26	3	2	2	1	0	1	3	3	3	1	2	1	1	1	1	2	3	2	2	1	1	1	3	3	16
27	3	4	3	1	1	1	1	1	4	3	4	3	1	0	1	0	4	4	4	3	1	1	1	1	19
28	1	1	1	3	0	0	1	1	0	0	2	3	0	0	0	0	1	1	2	3	0	0	1	1	9
29	1	0	3	1	3	1	2	4	0	1	3	2	3	1	1	4	1	1	3	2	3	1	2	4	17
30	3	3	2	1	2	1	3	3	4	3	3	2	3	3	4	3	4	3	3	2	3	3	4	3	25

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1960

FROM ARGENTINE ISLANDS A.973

LAT.	-65° 15'
LONG.	295° 44'
GEOMAGNETIC LAT.	-53.8°
GEOMAGNETIC LONG.	3.3°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1960

1. Instruments

These are standard La Cour variometers, recording H, D, and Z.

2. Time

Charts were changed at Greenwich midnight, so that each chart shows a complete Greenwich day. The master clock was adjusted to keep the clock error less than ½ minute.

The parallax correction for each trace is given opposite. The correction is to be added to the times read from the magnetograms.

3. Order of traces, from top to bottom:

Sensitive magnetogram.	Insensitive magnetogram
Temperature trace.	D trace
H trace.	D base-line (double, upper line is used).
H base-line.	H base-line.
(Temperature trace reflection, sometimes present)	Temperature trace
D base-line.	H trace.
D trace.	Z base-line and trace.
Z base-line and trace.	

4. Sense of traces.

All magnetograms: Temperature increases up the sheet.
H increases up the sheet.
D increases easterly up the sheet.
Z increases down the sheet.
(N.B. Z is negative, hence as Z increases, modulus of Z decreases).

5. Temperature coefficients.

The sensitive H and Z variometers have appreciable temperature coefficients.
H base-line values increase with increasing temperature.
Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

	SENSITIVE MAGNETOGRAM	INSENSITIVE MAGNETOGRAM
Temperature trace:		
Scale Value:	0.527°C/mm.	
Base Line:	- 33.6°C.	
Parallax correction:	+ 4 minutes	
Horizontal Force trace:		
Scale Value:	.39 γ /mm.	16.0 γ /mm.
Base Lines:	1-3: 23,297 γ (at 0°C)	All days: 23,997 γ (actual)
	4-31: 23,296 γ (" ")	
Temperature coefficient:	4.2 γ /°C.	
Parallax correction:	- 2 minutes	nil.
Reflection distance		
Main trace to 1st refl. down	7: 99.3 mm.	
	15: 98.4 mm.	
Declination trace:		
Scale Value:	0.[illegible] /mm.	.39 /mm.
Base Line (actual)	17°37.7 W.	16°32.4 W.
Parallax correction:	- 1 minute	- 1 minute
Reflection distances:		
Main trace to 1st refl. down		76.3 mm.
Vertical Force trace:		
Scale Value:	.30 γ /m.	11.25 γ /m.
Base Lines:	1-10: -36,505 γ (at 0°C)	
	11-20: -36,506 γ (" ")	All days: -36,503 γ
	19-31: -36,507 γ (" ")	
Temperature coefficient:	.1 γ /°C.	
Parallax correction:	- 1 minute	- 1 minutes
Reflection distances:		
Main trace to 1st refl. up:	9.2 mm.	
Main trace to 1st refl. down:		82.3 mm.
Distance between baselines:	H to D: 5[illegible].3 mm.	D to H: 46.6 mm.
	D to Z: 175.[illegible] mm.	H to Z: 131.2 mm.

(Time mark bulb replaced 10th)

ARGENTINE ISLANDS A.973 — OCTOBER 1960

Lower limit K9 : 500 γ — Scale values: H,4.39 γ/—; D,6.28 γ/—.

	K_H								K_D								$Max(K_H,K_D)$								
Day	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	Sum
1	3	4	4	4	3	3	3	4	4	4	4	4	4	3	2	4	4	4	4	4	4	3	3	4	30
2	4	3	3	5	4	3	3	3	4	3	5	3	4	2	3	2	4	3	5	5	4	3	3	3	30
3	3	2	2	4	0	1	1	1	3	1	1	4	2	1	1	0	3	2	2	4	2	1	1	1	16
4	1	1	2	1	2	4	5	5	1	0	1	2	1	5	4	6	1	1	2	2	2	5	5	6	24
5	3	3	2	1	1	3	3	5	4	4	3	2	2	3	2	4	4	4	3	2	2	3	3	5	26
6	4	7	6	5	6	6	6	8	6	5	6	6	6	5	5	8	6	7	6	6	6	6	6	8	51
7	7	6	5	6	4	4	4	4	8	7	6	5	3	4	5	4	8	7	6	6	4	4	5	4	44
8	5	3	2	3	1	1	2	3	5	3	2	3	2	1	2	3	5	3	2	3	2	1	2	3	21
9	3	4	3	2	2	1	2	4	2	4	4	3	2	2	2	5	3	4	4	3	2	2	2	5	25
10	2	3	0	0	0	0	1	2	3	4	1	1	0	1	1	2	3	4	1	1	0	1	1	2	13
11	2	2	2	2	1	1	1	2	3	3	3	3	0	1	0	0	3	3	3	3	1	1	1	2	17
12	0	1	1	0	0	1	1	3	0	0	0	1	0	1	1	0	0	1	1	1	0	1	1	3	8
13	1	2	2	0	0	1	1	3	0	1	1	0	1	0	0	0	1	2	2	0	1	1	1	3	11
14	2	1	1	1	0	0	0	1	1	0	0	2	0	0	0	0	2	1	1	2	0	0	0	1	7
15	2	3	3	2	2	3	2	3	1	1	1	2	3	3	3	3	2	3	3	2	3	3	3	3	22
16	1	2	1	0	1	1	0	2	0	1	1	0	2	0	0	1	1	2	1	0	2	1	0	2	9
17	2	1	0	1	0	1	2	3	2	0	2	2	2	1	1	0	2	1	2	2	2	1	2	3	15
18	3	3	2	3	1	2	4	3	4	3	4	2	2	3	4	3	4	3	4	3	2	3	4	3	26
19	1	3	2	1	1	1	0	2	0	3	0	2	2	1	0	1	1	3	2	2	2	1	0	2	15
20	1	1	1	1	0	1	2	2	1	2	1	3	1	1	1	1	1	2	1	3	1	1	2	2	13
21	2	1	2	1	0	1	1	2	2	0	2	1	1	0	1	2	2	1	2	1	1	1	1	2	11
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	1	5
24	0	1	1	1	3	3	3	3	0	0	0	1	3	3	3	1	0	1	1	1	3	3	3	3	15
25	3	3	5	4	4	5	6	5	1	2	5	5	4	4	4	4	3	3	5	5	4	5	6	5	36
26	4	4	4	3	3	2	3	4	5	4	4	4	3	2	3	4	5	4	4	4	3	2	3	4	29
27	3	2	2	3	3	3	4	5	3	3	2	3	4	3	3	5	3	3	2	3	4	3	4	5	27
28	4	3	3	4	4	3	3	3	4	4	3	5	4	3	3	1	4	4	3	5	4	3	3	3	29
29	3	2	3	3	4	4	3	3	5	2	3	4	2	3	3	3	5	2	3	4	4	4	3	3	28
30	2	2	2	3	4	3	3	4	3	2	4	4	4	3	3	5	3	2	4	4	4	3	3	5	28
31	4	2	3	2	2	3	3	3	4	2	3	3	2	3	3	3	4	2	3	3	2	3	3	3	23

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1960

FROM ARGENTINE ISLANDS A.973

LAT.	-65° 15'
LONG.	295° 44'
GEOMAGNETIC LAT.	-53.8°
GEOMAGNETIC LONG.	3.3°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY
DEPARTMENT OF NATURAL PHILOSOPHY
DRUMMOND STREET
EDINBURGH, 8.
Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY
30 GILLINGHAM STREET
LONDON, S.W. 1.
Phone: LONDON VICTORIA 3687

ARGENTINE ISLANDS A. 973

NOVEMBER 1960

EXPLANATORY NOTES 1960

1. Instruments

These are standard La Cour variometers, recording H, D, and Z.

2. Time

Charts were changed at Greenwich midnight, so that each chart shows a complete Greenwich day. The master clock was adjusted to keep the clock error less than ½ minute.
The parallax correction for each trace is given opposite. The correction is to be added to the times read from the magnetograms.

3. Order of traces, from top to bottom:

Sensitive magnetogram.	Insensitive magnetogram
Temperature trace.	D trace
H trace.	D base-line (double, upper line is used).
H base-line.	H base-line.
(Temperature trace reflection, sometimes present)	Temperature trace
D base-line.	H trace.
D trace.	Z base-line and trace.
Z base-line and trace.	

4. Sense of traces.

All magnetograms: Temperature increases up the sheet.
H increases up the sheet.
D increases easterly up the sheet.
Z increases down the sheet.
(N.B. Z is negative, hence as Z increases, modulus of Z decreases).

5. Temperature coefficients.

The sensitive H and Z variometers have appreciable temperature coefficients.
H base-line values increase with increasing temperature.
Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

	SENSITIVE MAGNETOGRAM	INSENSITIVE MAGNETOGRAM
Temperature trace:		
Scale Value:	0.527°C/mm.	
Base Line:	- 33.6°C.	
Parallax correction:	+ 4 minutes	
Horizontal Force trace:		
Scale Value:	4.39 γ /mm.	16.0 γ /mm.
Base Line:	23,296 γ (at 0°C)	23,998 γ (actual)
Temperature coefficient:	4.2 γ /°C.	
Parallax correction:	+ 2 minutes	Nil.
Reflection distance:		
Main trace to 1st refl. down	93.2 mm.	
Declination trace:		
Scale Value:	0.92′ /mm.	2.39′ /mm.
Base Line (Actual)	17° 37.7′ E.	16° 32.1′ E.
Parallax correction:	- 1 minute	- 1 minute
Reflection distance		
Main trace to 1st refl. down		76.3 mm.
Vertical Force trace		
Scale Value:	4.00 γ /mm.	11.25 γ /mm.
Base Lines:	1-14: -36,507 γ (at 0°C) 15-17: -36,508 γ (" ") 18-20: -36,509 γ (" ") 21-30: -36,510 γ (" ")	All days: -36,900 γ (actual
Temperature coefficient:	2.1 γ /°C.	
Parallax correction:	+ 1 minute	- 2 minutes.
Reflection distances		
Main trace to 1st refl. up:	80.3 mm.	
Main trace to 1st refl. down:		82.4 mm.
Distance between baselines:	H to D: 33.3 mm. D to Z: 135.7 mm.	D to H: 46.6 mm. H to Z: 131.2 mm.

ARGENTINE ISLANDS A.973 **NOVEMBER 1960**

Lower limit K9 : 500 γ **Scale values: H,4.39 γ/__ ; D,6.28 γ/__.**

	K_H								K_D								$Max(K_H,K_D)$								
Day	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	Sum
1	2	2	1	0	0	2	2	2	2	3	2	2	1	2	2	3	2	3	2	2	1	2	2	3	17
2	2	2	2	2	2	1	3	3	2	2	3	3	3	0	1	1	2	2	3	3	3	1	3	3	20
3	4	2	1	2	1	2	3	4	4	2	1	3	3	2	1	3	4	2	1	3	3	2	3	4	22
4	5	4	4	3	2	2	3	3	5	4	4	5	2	2	1	5	5	4	4	5	2	2	3	5	30
5	3	3	2	1	0	0	1	1	3	3	1	1	1	0	0	0	3	3	2	1	1	0	1	1	12
6	0	1	1	1	1	1	3	2	0	0	3	2	2	0	1	1	0	1	3	2	2	1	3	2	14
7	3	2	2	1	0	0	0	0	2	2	2	2	1	0	0	0	3	2	2	2	1	0	0	0	10
8	0	0	1	0	0	1	1	1	0	1	2	1	0	0	0	0	0	1	2	1	0	1	1	1	7
9	0	2	2	1	0	0	0	0	0	2	1	2	1	0	0	0	0	2	2	2	1	0	0	0	7
10	0	0	2	0	2	2	1	2	0	0	2	2	2	1	0	0	0	0	2	2	2	2	1	2	11
11	3	3	3	4	3	2	4	3	2	3	3	4	3	1	2	1	3	3	3	4	3	2	4	3	25
12	2	1	2	1	4	4	7	8	0	1	2	3	4	3	6	5	2	1	2	3	4	4	7	8	31
13	7	7	9	9	8	6	6	5	8	7	9	9	7	6	6	5	8	7	9	9	8	6	6	5	58
14	6	3	3	2	2	3	5	4	6	3	3	3	2	1	4	3	6	3	3	3	2	3	-5	4	29
15	4	2	3	2	6	3	5	7	4	3	3	2	4	3	4	7	4	3	3	2	6	3	5	7	33
16	7	6	3	3	4	3	4	4	7	7	4	3	5	2	2	1	7	7	4	3	5	3	4	4	37
17	3	3	2	2	1	3	4	4	3	1	3	2	1	1	2	3	3	3	3	2	1	3	4	4	23
18	2	1	0	0	0	1	0	0	3	1	0	1	1	0	0	0	3	1	0	1	1	1	0	0	7
19	0	2	1	2	1	1	1	3	0	1	1	3	3	0	0	0	0	2	1	3	3	1	1	3	14
20	3	2	1	2	2	3	3	3	1	2	3	3	1	1	1	1	3	2	3	3	2	3	3	3	22
21	2	3	4	4	3	4	4	5	0	4	5	3	4	4	3	2	2	4	5	4	4	4	4	5	32
22	4	3	3	2	1	3	3	3	4	4	3	2	2	1	2	3	4	4	3	2	2	3	3	3	24
23	2	2	2	0	0	1	2	3	2	2	3	2	1	0	0	0	2	2	3	2	1	1	2	3	16
24	3	1	2	0	1	2	4	5	4	1	2	1	2	1	2	3	4	1	2	1	2	2	4	5	21
25	3	4	2	3	3	1	4	4	2	4	5	4	4	1	3	3	3	4	5	4	4	1	4	4	29
26	2	2	1	2	2	2	3	3	0	2	2	2	2	1	1	1	2	2	2	2	2	2	3	3	18
27	2	3	2	1	1	4	4	2	1	3	3	2	2	2	3	2	2	3	3	2	2	4	4	2	22
28	2	3	1	2	2	1	2	1	3	4	2	2	2	1	1	0	3	4	2	2	2	1	2	1	17
29	1	2	1	0	1	1	3	3	2	1	1	2	1	0	1	2	2	2	1	2	1	1	3	3	15
30	2	3	1	1	0	2	5	5	1	3	1	2	1	1	3	3	2	3	1	2	1	2	5	5	21

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1960

FROM ARGENTINE ISLANDS A.973

LAT.	-65° 15'
LONG.	295° 44'
GEOMAGNETIC LAT.	-53.8°
GEOMAGNETIC LONG.	3.3°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1960

1. Instruments

These are standard La Cour variometers, recording H, D, and Z.

2. Time

Charts were changed at Greenwich midnight, so that each chart shows a complete Greenwich day. The master clock was adjusted to keep the clock error less than ½ minute.

The parallax correction for each trace is given opposite. The correction is to be added to the times read from the magnetograms.

3. Order of traces, from top to bottom:

Sensitive magnetogram.	Insensitive magnetogram
Temperature trace.	D trace
H trace.	D base-line (double, upper line is used).
H base-line.	H base-line.
(Temperature trace reflection, sometimes present)	Temperature trace
D base-line.	H trace.
D trace.	Z base-line and trace.
Z base-line and trace.	

4. Sense of traces.

All magnetograms: Temperature increases up the sheet.
H increases up the sheet.
D increases easterly up the sheet.
Z increases down the sheet.
(N.B. Z is negative, hence as Z increases, modulus of Z decreases).

5. Temperature coefficients.

The sensitive H and Z variometers have appreciable temperature coefficients.
H base-line values increase with increasing temperature.
Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

DECEMBER 1960

	SENSITIVE MAGNETOGRAM	INSENSITIVE MAGNETOGRAM
Temperature trace:		
Scale Value:	0.527°C/mm.	
Base Line:	- 33.6 °C.	
Parallax correction:	+ 4 minutes	
Horizontal Force trace:		
Scale Value:	4.39 γ /mm.	
Base Line:	23,295 γ (at 0°C)	
Temperature coefficient:	4.2 γ /°C.	
Parallax correction:	+ 2 minutes	
Declination trace:		
Scale Value:	0.92′/mm.	
Base Line (Actual)	17° 37.7′ E	
Parallax correction:	- 1 minute.	
Vertical Force trace:		
Scale Value:	4.00 γ /mm.	
Base Lines:	1-4: -36,511 γ (at 0°C)	
	5-8: -36,512 γ (" ")	
	9-13: -36,513 γ (" ")	
	14-17: -36,514 γ (" ")	
	18-27: -36,515 γ (" ")	
	28-31: -36,514 γ (" ")	
Temperature coefficient:	2.1 γ /°C.	
Parallax correction:	+ 1 minute.	
Distance between baselines:	H to D: 33.3 mm	
	D to Z: 135.7 mm.	

ARGENTINE ISLANDS A.973 **DECEMBER 1960**

Lower limit K9 : 500 γ **Scale values: H,4.39 γ/m.; D,6.28 γ/m.**

	K_H								K_D								$Max(K_H,K_D)$								
Day	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	Sum
1	5	6	5	4	3	4	4	4	4	6	5	5	4	3	4	4	5	6	5	5	4	4	4	4	37
2	3	3	2	2	4	3	3	3	2	3	2	4	4	2	1	2	3	3	2	4	4	3	3	3	25
3	2	3	0	1	1	1	0	2	1	3	1	2	1	0	0	0	2	3	1	2	1	1	0	2	12
4	1	1	1	1	0	2	2	1	0	1	1	1	2	1	0	0	1	1	1	1	2	2	2	1	11
5	1	2	0	0	1	2	4	3	0	3	1	2	2	1	3	0	1	3	1	2	2	2	4	3	18
6	2	2	1	3	3	2	3	3	0	3	1	3	4	1	2	4	2	3	1	3	4	2	3	4	22
7	1	2	1	2	1	2	5	4	2	3	1	3	3	0	3	5	2	3	1	3	3	2	5	5	24
8	3	4	3	3	2	2	2	3	3	4	3	4	2	0	0	0	3	4	3	4	2	2	2	3	23
9	3	2	2	2	3	3	3	3	1	3	3	2	3	1	2	1	3	3	3	2	3	3	3	3	23
10	2	1	0	1	1	1	2	2	0	1	0	2	2	0	1	0	2	1	0	2	2	1	2	2	12
11	1	1	1	1	1	2	2	3	0	0	2	1	2	0	1	1	1	1	2	1	2	2	2	3	14
12	1	2	1	2	1	2	3	3	0	1	2	3	2	1	1	2	1	2	2	3	2	2	3	3	18
13	2	2	3	3	3	1	0	2	2	3	4	2	3	0	0	0	2	3	4	3	3	1	0	2	18
14	1	2	1	1	0	2	0	1	0	0	1	3	2	1	0	0	1	2	1	3	2	2	0	1	12
15	2	1	1	3	3	3	3	4	1	3	3	5	3	3	3	4	2	3	3	5	3	3	3	4	26
16	5	3	4	3	3	0	1	3	3	5	4	4	3	0	0	1	5	5	4	4	3	0	1	3	25
17	0	2	1	0	1	0	2	4	0	2	2	1	1	0	0	0	0	2	2	1	1	0	2	4	12
18	2	3	4	3	2	4	4	2	2	3	3	3	3	2	2	1	2	3	4	3	3	4	4	2	25
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21	3	1	2	2	2	3	4	3	5	2	2	2	2	2	2	2	5	2	2	2	2	3	4	3	23
22	4	2	2	2	1	2	3	4	4	2	3	3	2	1	1	2	4	2	3	3	2	2	3	4	23
23	3	1	1	2	2	2	2	2	4	2	3	2	1	1	1	0	4	2	3	2	2	2	2	2	19
24	2	2	1	2	3	3	3	3	1	0	1	2	3	2	1	3	2	2	1	2	3	3	3	3	19
25	3	1	1	0	0	0	4	3	3	0	0	2	1	0	2	0	3	1	1	2	1	0	4	3	15
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27	3	3	4	4	4	4	4	3	1	3	4	4	3	4	4	3	3	3	4	4	4	4	4	3	29
28	3	1	2	3	2	2	2	2	1	0	2	3	3	1	2	1	3	1	2	3	3	2	2	2	18
29	3	2	1	2	0	3	3	3	3	3	3	3	2	2	1	1	3	3	3	3	2	3	3	3	23
30	1	1	1	2	1	2	4	3	0	2	2	2	2	2	2	0	1	2	2	2	2	2	4	3	18
31	2	2	2	2	2	3	2	2	0	3	2	3	2	1	1	1	2	3	2	3	2	3	2	2	19