

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1961

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 1961

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	0.53°C/mm.
Baseline	- 33.8°C
Parallax Correction	+ 4 minutes

Horizontal Force trace.

Scale Value:	4.38 γ /mm.
Baselines:	1-22: 23,295 γ (at 0°C) 23-31: 23,294 γ (" ")
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:	4.05 γ /mm.
Base Line (at 0°C)	-36,515 γ
Temperature Coefficient	2.1 γ /°C
Parallax Correction	+ 1 minute.

Distance between baselines:	H to D: 33.2 mm.
	D to Z: 135.3 mm.

Lower limit K9 : 500 γ Scale values: H, 4.37 γ/mm ; D, 6.24 γ/mm .

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

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(Temperature trace reflection, sometimes present)	Temperature trace
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INSENSITIVE MAGNETOGRAM

Temperature trace.

Scale Value	0.53 °C/mm.
Baseline	- 33.8 °C
Parallax Correction	+ 4 minutes

Horizontal Force trace.

Scale Value:	4.38 γ /mm.
Baselines:	1-9: 23,294 γ (at 0 °C) 10-28: 23,293 γ (" ")
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:	4.05 γ /mm.
Base Lines	1-3 : -36,515 γ (at 0 °C) 4-23: -36,514 γ (" ") 24-28: -36,515 γ (" ")
Temperature coefficient	2.1 γ /°C
Parallax Correction	+ 1 minute
Reflection Distance:	
Trace to 1st Reflection Down	80.2 mm.

Distance between baselines:	H to D	33.2 mm.
	D to Z	136.0 mm.

Lower limit K9 : 500 y

Scale values: H, 4.37 y/mm ; D, 6.24 y/mm .

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

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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. (Temperature trace reflection, sometimes present)	H base-line.
D base-line.	Temperature trace
D trace.	H trace.
Z base-line and trace.	Z base-line and trace.

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MARCH, 1961

SENSITIVE MAGNETOGRAM

INSENSITIVE MAGNETOGRAM

Temperature trace.

Scale Value	0.53 °C/mm.
Baseline	- 33.8 °C
Parallax Correction	+ 4 minutes

Horizontal Force trace.

Scale Values	1-25: 4.38 δ /mm. 26-31: 4.34 δ /mm.	16.0 δ /mm. (All days)
Baseline	23,293 δ (At 0 °C)	23,992 (Actual)
Temperature coefficient	4.2 δ /°C.	
Parallax Correction	+ 2 minutes	Nil.
Reflection Distance:		
Trace to 1st Reflection up	93.5 mm.	

Declination trace.

Scale Value:	0.92' /mm.	2.59' /mm.
Base Lines (Actual)	1-13: 17 37.7' E 14,15,16: 17 37.5' E 17-31: 17 37.2' E	16 28' 7 E
Parallax Correction:	- 1 minute	- 1 minute

Vertical Force trace

Scale Value:	4.05 δ /mm.	11.1 δ /mm.
Base Lines:	1-18: -36,515 δ (At 0 °C) 19-31: -36,514 δ (At 0 °C)	-36,906 (Actual)
Temperature coefficient	2.1 δ /°C	
Parallax Correction	+ 1 minute	- 2 minutes

Distance between baselines:	D to H	33.2 mm.	470 mm.
	D to Z	136.0 mm.	178.0 mm.

Lower limit K9 : 500 γ

Scale values: H, 4.37 γ/mm ; D, 6.24 γ/mm .

K_H

K_D

Max(K_H, K_D)

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

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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. (Temperature trace reflection, sometimes present)	H base-line.
D base-line.	Temperature trace
D trace.	H 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	0.53 °C/mm.
Baseline	- 33.8
Parallax Correction	+ 4 minutes

Horizontal Force trace

Scale Value:	4.34 γ /mm.
Baselines:	1-15: 23,293 γ (at 0°C)
	16: 23,292 γ (" ")
	17-27: 23,291 γ (" ")
	28-30: 23,292 γ (" ")

Temperature coefficient	4.2 δ /°C
Parallax Correction	+ 2 minutes
Reflection Distance:	
Trace to 1st Reflection up	93.5 mm.

Declination trace

Scale Value	0.92'/mm.
Baseline (Actual)	17 37.2'E
Parallax Correction:	- 1 minute

Vertical Force trace

Scale Value	4.05 γ /mm.
Baselines	1-4: -36,514 γ (at 0°C)
	5-24: -36,516 γ (" ")
	25-30: -36,517 γ (" ")

Temperature Coefficient	2.1 δ /°C
Parallax Correction	Nil

<u>Distance between baselines:</u>	H to D: 33.1 mm.
	D to Z: 136.1 mm.

Lower limit K9 : 500 γ

Scale values: H, 4.37 γ/mm ; D, 6.24 γ/mm .

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1961

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 1961

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. (Temperature trace reflection, sometimes present)	H base-line.
D base-line.	Temperature trace
D trace.	H trace.
Z base-line and trace.	Z base-line and trace.

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 (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.
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MAY, 1961

SENSITIVE MAGNETOGRAM

INSENSITIVE MAGNETOGRAM

Temperature trace.

Scale Value	0.53 °C/mm.
Baseline	- 33.8 °C
Parallax Correction	+ 4 minutes

Horizontal Force trace.

Scale Value	4.34 γ /mm.
Baseline	23,292 γ (at 0 °C)
Temperature coefficient	4.2 γ /°C
Parallax Correction	+ 2 minutes

Declination trace

Scale Value	0.92' /mm.
Baseline (Actual)	17 37.2' E
Parallax Correction	- 1 minute

Vertical Force trace

Scale Value	4.05 γ /mm.
Baselines	1: -36,517 γ (at 0° C) 2,3: -36,518 γ (" ") 4-17: -36,519 γ (" ") 18-29: -36,520 γ (" ") 30,31: -36,521 γ (" ")

Temperature Coefficient	2.1 γ /°C
Parallax Correction	Nil

Distance between baselines:	H to D: 33.1 mm.
	D to Z: 136.1 mm.

Lower limit K9 : 500 γ

Scale values: H, 4.37 γ/mm ; D, 6.24 γ/mm .

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1961

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 1961

JUNE, 1961

SENSITIVE MAGNETOGRAM

INSENSITIVE MAGNETOGRAM

Temperature trace.

Scale Value 0.53°C/mm.
 Baseline - 33.8°C
 Parallax Correction + 4 minutes

Horizontal Force trace.

Scale Value 4.34 γ/mm.
 Baseline 23,292 γ (at 0°C)
 Temperature coefficient 4.2 γ/°C
 Parallax Correction + 2 minutes
 Reflection Distance:
 Trace to 1st Reflection up 93.5 mm.

Declination trace.

Scale Value 0.92'/mm.
 Baseline (Actual) 17 37.2' E.
 Parallax Correction - 1 minute.

Vertical Force trace.

Scale Value 4.05 γ/mm.
 Baselines:
 1-15: - 36,521 γ (at 0°C)
 16-22: - 36,522 γ (" ")
 23-30: - 36,523 γ (" ")

Temperature coefficient 2.1 γ/°C
 Parallax Correction Nil

Distance between baselines:

H to D: 53.1 mm.
 D to Z: 136.1 mm.

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 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. (Temperature trace reflection, sometimes present)	H base-line.
D base-line.	Temperature trace
D trace.	H 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.
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 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.

Lower limit K_9 : 500 γ

Scale values: H, 4.37 γ /mm; D, 6.24 γ /mm.

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1961

FROM ARGENTINE ISLANDS A.973

LAT. $-65^{\circ} 15'$

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GEOMAGNETIC LONG. 3.3°

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BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

JULY 1961

EXPLANATORY NOTES 1961SENSITIVE MAGNETOGRAMINSENSITIVE MAGNETOGRAM1. 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.

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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.

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 (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.

Temperature trace.

Scale Value	0.53 °C/mm.
Baseline	- 33.8 °C
Parallax Correction	+ 4 minutes

Horizontal Force trace.

Scale Value	4.34 γ /mm.	16.0 γ /mm.
Baselines	1-14: 23,292 γ (at 0 °C) 15-31: 23,293 γ (" ")	23,996 (Actual)

Temperature coefficient	4.2 γ /°C
Parallax Correction	+ 2 minutes
Reflection Distance	Nil
Trace to 1st Reflection up	93.5 mm.

Declination trace

Scale Value	0.92' /mm.	2.59' /mm.
Baseline (Actual)	17 37.2'E	16 28.5'E
Parallax Correction	- 1 minute	- 1 minute

Vertical Force trace.

Scale Value	4.05 γ /mm.	11.1 γ /mm.
Baselines	1,2: - 36,524 γ (at 0 °C) 3-19: - 36,525 γ (" ") 20,21: - 36,524 γ (" ") 22: - 36,523 γ (" ") 23,24,25: - 36,522 γ (" ") 26,27,28: - 36,523 γ (" ") 29,30,31: - 36,524 γ (" ")	- 36,914 (Actual)

Temperature coefficient	4.2 γ /°C
Parallax Correction	Nil
Reflection distance:	- 2 minute
Trace to 1st Reflection up	82.5 mm.

Distance between baselines:

H to D:	33.1 mm.	46.9 mm.
D to Z:	136.1 mm.	178.2 mm.

Lower limit K9 : 500 γ

Scale values: H, 4.37 γ/mm ; D, 6.24 γ/mm .

Day	K_H								K_D								Max(K_H, K_D)								Sum
	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	
1	2	2	3	2	1	0	0	0	3	3	4	4	2	1	0	0	3	3	4	4	2	1	0	0	17
2	1	2	3	2	1	1	2	1	1	2	3	2	0	2	2	1	1	2	3	2	1	2	2	1	14
3	1	2	3	3	3	2	1	0	1	0	3	4	3	3	2	0	1	2	3	4	3	3	2	0	18
4	2	1	1	2	1	1	2	4	1	1	1	1	1	0	0	4	2	1	1	2	1	1	2	4	14
5	5	4	3	2	3	2	2	3	5	5	4	4	3	3	1	5	5	5	4	4	3	3	2	5	31
6	3	4	2	1	2	3	1	1	3	4	2	2	1	3	1	2	3	4	2	2	2	3	1	2	19
7	4	3	2	2	0	1	2	0	4	3	3	2	0	1	1	0	4	3	3	2	0	1	2	0	15
8	2	2	2	2	2	0	1	2	3	3	3	2	2	2	1	3	3	3	3	2	2	2	1	3	19
9	3	3	3	1	1	1	0	0	3	4	4	3	0	0	0	0	3	4	4	3	1	1	0	0	16
10	3	4	3	3	2	2	1	2	2	4	3	3	2	2	0	1	3	4	3	3	2	2	1	2	20
11	3	2	1	2	0	1	0	1	3	3	2	2	1	1	0	1	3	3	2	2	1	1	0	1	13
12	1	0	3	2	0	0	0	0	2	1	4	3	0	0	0	0	2	1	4	3	0	0	0	0	10
13	0	0	0	5	6	6	5	4	0	1	0	5	7	6	5	4	0	1	0	5	7	6	5	4	28
14	2	2	4	6	5	4	3	3	4	2	6	7	4	5	5	3	4	2	6	7	5	5	5	3	37
15	3	2	2	3	2	1	4	3	3	5	4	4	2	1	2	4	3	5	4	4	2	1	4	4	27
16	5	4	3	2	2	2	3	2	5	4	2	2	2	1	1	1	5	4	3	2	2	2	3	2	23
17	3	3	3	2	2	1	4	5	3	3	2	4	3	1	5	5	3	3	3	4	3	1	5	5	27
18	4	5	5	3	6	4	4	4	5	6	6	4	5	3	3	5	5	6	6	4	6	4	4	5	40
19	5	4	0	0	0	0	0	1	5	4	1	0	0	0	0	0	5	4	1	0	0	0	0	1	11
20	2	3	4	2	0	2	3	4	0	2	4	0	0	0	2	5	2	3	4	2	0	2	3	5	21
21	5	5	5	3	3	3	2	1	5	5	5	4	2	2	3	2	5	5	5	4	3	3	3	2	30
22	3	3	4	2	2	1	0	1	2	3	5	5	2	1	1	0	3	3	5	5	2	1	1	1	21
23	0	0	1	2	3	3	2	2	0	1	1	3	3	3	2	2	0	1	1	3	3	3	2	2	15
24	2	3	2	3	2	1	0	2	3	4	3	3	1	2	0	2	3	4	3	3	2	2	0	2	19
25	3	3	3	2	2	1	1	2	4	4	3	3	1	0	0	1	4	4	3	3	2	1	1	2	20
26	3	3	1	1	1	0	3	3	4	4	2	2	1	1	3	4	4	4	2	2	1	1	3	4	21
27	3	3	5	7	4	4	4	6	3	3	6	7	4	3	3	7	3	3	6	7	4	4	4	7	38
28	4	4	3	3	2	1	3	2	5	3	3	3	2	1	3	1	5	4	3	3	2	1	3	2	23
29	1	4	2	2	1	1	0	0	1	3	3	1	1	1	0	1	1	4	3	1	1	1	0	1	12
30	1	2	2	1	1	0	2	2	2	2	3	3	2	0	2	1	2	2	3	3	2	0	2	2	16
31	1	1	0	1	1	1	2	1	0	0	1	1	1	0	2	1	1	1	1	1	1	1	2	1	9

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1961

FROM ARGENTINE ISLANDS A.973

LAT. $-65^{\circ} 15'$

LONG. $295^{\circ} 44'$

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 1961

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 0.53 °C/mm
 Baseline - 33.8 °C
 Parallax Correction + 4 minutes

Horizontal Force trace.

Scale Value 4.34 γ /mm. 16.0 γ /mm.
 Baseline 23,293 γ (at 0 °C) 23,996 (Actual)
 Temperature coefficient + 2 γ /°C
 Parallax Correction + 2 minutes Nil

Declination trace

Scale Value 0.92' /mm. 2.59' /mm.
 Baseline (Actual) 17 37.0'E 16 31.0'E
 Parallax Correction - 1 minute - 1 minute

Vertical Force trace.

Scale Values 1-18: 4.05 γ /mm. 11.1 γ /mm.
 20-31: 3.94 γ /mm.
 Baselines 1-4: -36,525 γ (at 0 °C)
 5-7: -36,526 γ (" ")
 8-10: -36,527 γ (" ")
 11-13: -36,528 γ (" ")
 14-18: -36,529 γ (" ")
 20-31: -36,338 γ (" ")
 Temperature coefficients 1-18: 2.1 γ /°C
 20-31: - 1.0 γ /°C
 Parallax Correction Nil - 2 minutes

Distance between baselines

H to D 35.1 mm. 46.9 mm.
 D to Z 1-18: 136.1 mm. 178.2 mm.
 20-31: 154.9 mm.

Lower limit K9 : 500 γ

Scale values: $\bar{H}, 4.37 \gamma/\text{mm}$; $D, 6.24 \gamma/\text{mm}$.

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1961

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 1961

SENSITIVE MAGNETOGRAM

INSENSITIVE MAGNETOGRAM

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. (Temperature trace reflection, sometimes present)	H base-line.
D base-line.	Temperature trace
D trace.	H 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.

Temperature trace

Scale Value	0.53°C/mm.
Baseline	- 33.8°C
Parallax Corrections	+ 4 minutes

Horizontal Force trace.

Scale Value	4.34 γ /mm.
Baseline	23,293 γ (at 0°C)
Temperature coefficient	+ 2 γ /°C
Parallax Correction	+ 2 minutes

Declination trace

Scale Value	0.92'/mm.
Baseline (Actual)	17 37.0'E
Parallax Correction	- 1 minute

Vertical Force trace

Scale Value	3.94 γ /mm.
Baseline	1-8: -36,338 γ (at 0°C) 9-20: -36,336 γ (" ") 21: -36,338 γ (" ") 22-28: -36,339 γ (" ") 29,30: -36,338 γ (" ")
Temperature coefficient	- 1.0 γ /°C.
Parallax Correction	+ 1 minute

Distance between baselines:

H to D	33.2 mm.
D to Z	154.7 mm.

Lower limit K₉ : 500 γ

Scale values: H, 4.37 γ/μm; D, 6.24 γ/μm.

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

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H base-line. (Temperature trace reflection, sometimes present)	H base-line.
D base-line.	Temperature trace
D trace.	H trace.
Z base-line and trace.	Z base-line and trace.

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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.

OCTOBER 1961

SENSITIVE MAGNETOGRAM

INSENSITIVE MAGNETOGRAM

Temperature trace

Scale Value	0.53°C/mm.
Baseline	- 33.8°C
Parallax Correction	+ 4 minutes

Horizontal Force trace

Scale Value	4.34 γ /mm.	16.0 γ /mm.
Baseline	23,293 γ (at 0°C)	23,997 γ (Actual)
Temperature coefficient	4.2 γ /°C	
Parallax Correction	+ 2 minutes	Nil
Reflection Distance		
Trace to 1st reflection up	92.5 mm.	

Declination trace

Scale Value	0.92' /mm.	2.59' /mm.
Baseline (Actual)	17 37.0' E	16 30.7' E
Parallax Correction	- 1 minute	- 1 minute

Vertical Force trace

Scale Value	3.94 γ /mm.	11.1 γ /mm.
Baselines	1-19: - 36,338 γ (at 0°C) 20-26: - 36,340 γ (" " " 27-30: - 36,339 γ (" " " 31: - 36,337 γ (" " ")	- 36,316 γ (Actual)
Temperature coefficient	- 1.0 γ /°C	
Parallax Correction	+ 1 minute	- 2 minute
Reflection Distances		
Trace to 1st reflection up		82.5 mm.
Trace to 1st reflection down	92 mm.	

Distance between baselines:

H to D	33.2 mm.	46.9 mm.
D to Z	154.8 mm.	178.2 mm.

Lower limit K9 : 500 y

Scale values: H, 4.37 y/mm ; D, 6.24 y/mm .

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1961

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 1961

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.

NOVEMBER 1961

SENSITIVE MAGNETOGRAM

INSENSITIVE MAGNETOGRAM

Temperature trace

Scale Value 0.53°C/mm.

Baseline 1st: -33.8°C
 2,3: -31.4°C
 4-30: -34.2°C

Parallax Correction + 4 minutes

Horizontal Force trace

Scale Value 4.34 γ /mm. 16.0 γ /mm.

Baseline 1-3: 23,293 γ (at 0°C) 23,994 γ (actual)
 4-30: 23,292 γ (" ")

Temperature coefficient + 4.2 γ /°C

Parallax Correction + 2 minutes Nil

Reflection distance:

Trace to 1st reflection up 33.5 mm

Declination trace

Scale Value 0.52', mm. 1.59' mm.

Baselines (actual) 1-3: 17 37.0'E 16 36.9'E
 4-30: 17 37.3'E

Parallax correction - 1 minute - 1 minute

Vertical Force trace

Scale Value 3.34 γ mm. 11.1 γ /mm.

Baselines 1: -36,337 γ (at 0°C) -36,920 γ (actual)
 2,3: -36,361 γ (actual)
 4-30: -36,332 γ (at 0°C)

Temperature coefficient - 1.0 γ /°C

Parallax Correction + 2 minutes - 2 minutes

Distance between baselines:

H to D 33.3 mm. 46.9 mm.

D to Z 155.0 mm. 178.2 mm.

Lower limit K₉ : 500 y

Scale values: H, 4.37 y/mm ; D, 6.24 y/mm.

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1961

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

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HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1961

DECEMBER 1961

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. (Temperature trace reflection, sometimes present)	H base-line.
D base-line.	Temperature trace
D trace.	H 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	0.53 °C/mm.
Baseline	- 34.2°C
Parallax Correction	+ 4 minutes

Horizontal Force trace

Scale Value	4.34 δ /mm.	16.0 δ /mm.
Baselines	1-3: 23,293 δ (at 0°C) 4-31: 23,292 δ (" ")	23,988 δ (Actual)
Temperature coefficient	+ 4.2 δ /°C	
Parallax Correction	+ 2 minutes	Nil
Reflection Distance:		
Trace to 1st Reflection up	93.5 mm.	

Declination trace

Scale Value	0.92'/mm.	2.59'/mm.
Baseline (Actual)	17 37.3'E	17 30.6'E
Parallax Correction	- 1 minute	- 1 minute

Vertical Force trace

Scale Value	3.94 δ /mm.	11.1 δ /mm.
Baselines	1-14: - 36,334 δ 15-31: - 36,336 δ	- 36,924 δ (Actual)
Temperature coefficient	- 1.0 δ /°C	
Parallax Correction	+ 2 minutes	- 2 minutes
Reflection Distance:		
Trace to 1st Reflection up		82.1 mm

Distance between baselines:

H to D	33.4 mm.	47.0 mm.
D to Z	155.0 mm.	178.0 mm.

Lower limit K9 : 500 y

Scale values: H, 4.37 y/mm ; D, 6.24 y/mm .

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