

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1966

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 667 1011 EXT. 2497

HEAD OFFICE: -

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1966

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	+1 min.
D	+1½
Z	-1
T	+2½

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	-4
D	+1½
Z	0
T	-2

3. Order of Traces, from top to bottom:

Sensitive Magnetograms

H trace and baseline
T trace
D baseline and trace
Z baseline and trace

Insensitive Magnetograms

D trace and baseline
T trace
H baseline and trace
Z baseline and trace

4. Sense of trace

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

H baseline values increase with increasing temperature.

Z baseline values decrease with increasing temperature.

Temperature coefficients:

H : 4.95 $\gamma/^\circ\text{C}$ Jan 01 - Aug 03 Z : 1.8 $\gamma/^\circ\text{C}$ Jan 01 - Feb 28
3.75 $\gamma/^\circ\text{C}$ Aug 04 - Dec 31 1.2 $\gamma/^\circ\text{C}$ Mar 01 - Dec 31

<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Aug 03	0.51 $^\circ\text{C}/\text{mm}$	9.87 $^\circ\text{C}$
Aug 04 - Dec 31	0.52 $^\circ\text{C}/\text{mm}$	12.46 $^\circ\text{C}$

6. Scale Values, Sensitive magnetograms

H	D	Z
4.13 γ/mm Jan 01 - May 31	0.92' /mm Jan. 01 - Dec 31	4.08 γ/mm Jan 01 - Jan 31
4.15 γ/mm Jun 01 - Aug 03		4.07 γ/mm Feb 01 - Apr 30
4.28 γ/mm Aug 04 - Aug 31		4.08 γ/mm May 01 - May 31
4.29 γ/mm Sep 01 - Oct 31		4.09 γ/mm Jun 01 - Aug 31
4.30 γ/mm Nov 01 - Nov 30		4.10 γ/mm Sep 01 - Oct 31
4.28 γ/mm Dec 01 - Dec 31		4.11 γ/mm Nov 01 - Nov 30
		4.12 γ/mm Dec 01 - Dec 31

7. Scale of reproduction

To give scale a rule of 50 mm. length is reproduced on each magnetogram.

8. Baseline Values

Sensitive Magnetograms

H baselines

Jan 01 - Aug 03	22,971 y
Aug 04 - Aug 05	22,922 y
Aug 06 - Dec 31	22,925 y

Note: H baselines are at 0°C. Chart baselines must be calculated using temperature coefficients.

D baselines

Jan 01 - Aug 03	17° 20.1'
Aug 04 - Dec 31	17° 21.8'

Z baselines

	At 0° C	Chart baselines
Jan 01 - Jan 31		35,975 y
Feb 01 - Feb 28		35,976 y
Mar 01 - Aug 03	35,967 y	
Aug 04 - Oct 05, 0100 z		35,863 y
Oct 08 - Dec 31		35,860 y

Note: In periods when chart baselines are quoted the temperature correction varies by less than 1 y.

Lower limit K9: 500_y

Scale values: E, 4.32_{y/m}; D, 6.24_{y/m}.

	K_H								K_D								$\text{Max}(K_H, K_D)$								
	21	22	23	24	25	26	27	28	21	22	23	24	25	26	27	28	21	22	23	24	25	26	27	28	
1	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	1	0	0	7
2	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	17
3	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	2	3	2	11
4	0	0	0	0	2	3	0	0	0	0	1	0	1	0	0	0	0	1	1	1	2	3	0	3	15
5	0	1	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	1	0	1	0	0	1	2	5
6	0	1	0	0	0	0	0	1	2	1	0	0	0	0	0	0	1	1	0	1	0	0	1	2	6
7	1	1	1	0	0	2	4	4	0	1	1	1	0	1	2	2	1	1	1	1	0	2	1	1	14
8	3	1	2	1	1	1	1	1	2	1	2	1	1	0	0	0	3	1	2	1	1	1	1	1	11
9	1	1	0	0	1	2	3	4	0	0	0	0	1	1	1	3	1	1	0	0	1	2	3	4	12
10	2	2	1	0	1	1	2	1	1	2	1	1	1	0	0	0	2	2	1	1	1	1	2	1	11
11	1	0	0	0	0	1	1	2	0	0	0	1	0	0	0	0	1	0	0	1	0	1	1	2	6
12	0	1	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	3
13	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1	1	4
14	0	0	2	1	1	1	2	1	0	0	1	1	1	0	0	0	0	0	2	1	1	1	2	1	8
15	1	1	0	0	0	1	2	1	0	0	0	0	1	0	1	0	1	1	0	0	1	1	2	1	7
16	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
17	0	1	0	0	1	1	2	1	0	1	1	1	1	0	1	0	0	1	1	1	1	1	2	1	8
18	2	1	1	1	1	2	4	2	0	0	1	2	1	1	2	0	2	1	1	2	1	2	4	2	15
19	0	1	1	1	2	2	1	0	0	0	2	2	3	1	0	0	0	1	2	2	3	2	1	0	11
20	3	2	2	1	3	2	4	3	0	1	2	2	3	3	2	1	3	2	2	2	3	3	4	3	22
21	3	3	2	3	2	3	4	4	3	2	2	3	3	1	3	2	3	3	2	3	3	3	4	4	25
22	3	4	5	3	4	3	3	3	2	2	4	3	3	3	2	2	3	4	5	3	4	3	3	3	28
23	3	1	2	2	1	1	2	2	3	1	2	3	2	1	1	1	3	1	2	3	2	1	2	2	16
24	1	1	2	2	1	3	2	2	0	2	1	2	1	1	2	1	1	2	2	2	1	3	2	2	15
25	2	2	2	1	1	4	2	2	2	1	1	1	2	2	1	0	2	2	2	1	2	4	2	2	17
26	1	1	2	2	2	3	3	3	0	0	3	3	2	1	2	3	1	1	3	3	2	3	3	3	19
27	2	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	1	0	0	0	0	0	0	3
28	0	0	0	1	0	2	3	5	0	0	1	2	0	1	2	2	0	0	1	2	0	2	3	5	13
29	3	3	1	1	1	2	1	0	1	1	2	1	1	0	0	0	3	3	2	1	1	2	1	0	13
30	0	0	0	0	0	2	2	0	0	0	0	1	1	0	1	0	0	0	0	1	1	2	2	0	6
31	0	0	0	0	0	1	2	2	0	0	0	1	0	0	0	0	0	0	0	1	0	1	2	2	6

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1966

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 667 1011 EXT. 2497

HEAD OFFICE: -

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1966

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	+1 min.
D	+1½
Z	-1
T	+2½

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	-4
D	+1½
Z	0
T	-2

3. Order of Traces, from top to bottom:

Sensitive Magnetograms

H trace and baseline
T trace
D baseline and trace
Z baseline and trace

Insensitive Magnetograms

D trace and baseline
T trace
H baseline and trace
Z baseline and trace

4. Sense of trace

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

H baseline values increase with increasing temperature.

Z baseline values decrease with increasing temperature.

Temperature coefficients:

H : 4.95 $\gamma/^\circ\text{C}$ Jan 01 - Aug 03 Z : 1.8 $\gamma/^\circ\text{C}$ Jan 01 - Feb 28
3.75 $\gamma/^\circ\text{C}$ Aug 04 - Dec 31 1.2 $\gamma/^\circ\text{C}$ Mar 01 - Dec 31

<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Aug 03	0.51 $^\circ\text{C}/\text{mm}$	9.87 $^\circ\text{C}$
Aug 04 - Dec 31	0.52 $^\circ\text{C}/\text{mm}$	12.46 $^\circ\text{C}$

6. Scale Values, Sensitive magnetograms

H	D	Z
4.13 γ/mm Jan 01 - May 31	0.92 γ/mm Jan 01 - Dec 31	4.08 γ/mm Jan 01 - Jan 31
4.15 γ/mm Jun 01 - Aug 03		4.07 γ/mm Feb 01 - Apr 30
4.28 γ/mm Aug 04 - Aug 31		4.08 γ/mm May 01 - May 31
4.29 γ/mm Sep 01 - Oct 31		4.09 γ/mm Jun 01 - Aug 31
4.30 γ/mm Nov 01 - Nov 30		4.10 γ/mm Sep 01 - Oct 31
4.28 γ/mm Dec 01 - Dec 31		4.11 γ/mm Nov 01 - Nov 30
		4.12 γ/mm Dec 01 - Dec 31

7. Scale of reproduction

To give scale a rule of 50 mm. length is reproduced on each magnetogram.

H. Baseline Values

Baseline Magnitudes

H baselines

Jan 01 - Aug 03	22,971 y
Aug 04 - Aug 05	22,922 y
Aug 06 - Dec 31	22,925 y

Note: H baselines are at 0°C. Chart baselines must be calculated using temperature coefficients.

D baselines

Jan 01 - Aug 03	17° 20.1'
Aug 04 - Dec 31	17° 21.8'

Z baselines

	At 0° C	Chart baselines
Jan 01 - Jan 31		35,975 y
Feb 01 - Feb 28		35,976 y
Mar 01 - Aug 03	35,967 y	
Aug 04 - Oct 08, 0100 z		35,863 y
Oct 08 - Dec 31		35,860 y

Note: In periods when chart baselines are quoted the temperature correction varies by less than 1 y.

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1966

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 667 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1966

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	+1 min.
D	+1½
Z	-1
T	+2½

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	-4
D	+1½
Z	0
T	-2

3. Order of Traces, from top to bottom:

Sensitive Magnetograms

H trace and baseline
T trace
D baseline and trace
Z baseline and trace

Insensitive Magnetograms

D trace and baseline
T trace
H baseline and trace
Z baseline and trace

4. Sense of trace

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

H baseline values increase with increasing temperature.

Z baseline values decrease with increasing temperature.

Temperature coefficients:

H : 4.95 $\gamma/^\circ\text{C}$ Jan 01 - Aug 03 Z : 1.8 $\gamma/^\circ\text{C}$ Jan 01 - Feb 28
3.75 $\gamma/^\circ\text{C}$ Aug 04 - Dec 31 1.2 $\gamma/^\circ\text{C}$ Mar 01 - Dec 31

<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Aug 03	0.51 $^\circ\text{C}/\text{mm}$	9.87 $^\circ\text{C}$
Aug 04 - Dec 31	0.52 $^\circ\text{C}/\text{mm}$	12.46 $^\circ\text{C}$

6. Scale Values, Sensitive magnetograms

H	D	Z
4.13 γ/mm Jan 01 - May 31	0.92 γ/mm Jan 01 - Dec 31	4.08 γ/mm Jan 01 - Jan 31
4.15 γ/mm Jun 01 - Aug 03		4.07 γ/mm Feb 01 - Apr 30
4.28 γ/mm Aug 04 - Aug 31		4.08 γ/mm May 01 - May 31
4.29 γ/mm Sep 01 - Oct 31		4.09 γ/mm Jun 01 - Aug 31
4.30 γ/mm Nov 01 - Nov 30		4.10 γ/mm Sep 01 - Oct 31
4.28 γ/mm Dec 01 - Dec 31		4.11 γ/mm Nov 01 - Nov 30
		4.12 γ/mm Dec 01 - Dec 31

7. Scale of reproduction

To give scale a rule of 50 mm. length is reproduced on each magnetogram.

8. Baseline Values

Sensitive Magnetograms

H baselines

Jan 01 - Aug 03	22,971 y
Aug 04 - Aug 05	22,922 y
Aug 06 - Dec 31	22.925 y

Note: H baselines are at 0°C. Chart baselines must be calculated using temperature coefficients.

D baselines

Jan 01 - Aug 03	17° 20.1'
Aug 04 - Dec 31	17° 21.8'

Z baselines

	At 0° C	Chart baselines
Jan 01 - Jan 31		35,975 y
Feb 01 - Feb 28		35,976 y
Mar 01 - Aug 03	35,967 y	
Aug 04 - Oct 08, 0100 z		35,863 y
Oct 08 - Dec 31		35,860 y

Note: In periods when chart baselines are quoted the temperature correction varies by less than 1 y.

Lower limit is: 500y

Scale values: H, 4.15y/mm; D, 6.2y/mm

	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	0	2	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	2	0	1	0	0	0	0	3
2	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	3
3	2	0	1	2	2	1	2	3	1	0	0	3	2	0	1	3	2	0	1	3	2	1	2	3	14
4	2	1	0	0	0	0	1	3	4	1	0	1	0	0	1	1	4	1	0	1	0	0	1	3	10
5	2	2	0	0	0	0	0	1	1	2	1	1	0	0	0	0	2	2	1	1	0	0	0	1	7
6	2	1	1	0	1	0	2	1	1	0	1	2	2	0	0	1	2	1	1	2	2	0	2	1	11
7	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
8	0	0	2	0	0	0	0	0	0	1	2	1	0	0	0	0	0	1	2	1	0	0	0	0	4
9	0	0	0	0	0	1	2	3	0	0	0	1	1	0	1	2	0	0	0	1	1	1	2	3	8
10	3	2	1	1	1	1	1	2	4	2	1	2	1	1	0	1	4	2	1	2	1	1	1	2	14
11	2	1	0	0	0	1	1	3	3	2	0	0	0	0	0	2	3	2	0	0	0	1	1	3	10
12	3	0	1	2	1	0	1	1	2	0	1	2	2	0	0	0	3	0	1	2	2	0	1	1	10
13	3	1	2	0	1	2	3	5	1	0	0	0	1	2	3	5	3	1	2	0	1	2	3	5	17
14	3	4	6	4	2	2	2	1	5	5	5	5	2	3	2	1	5	5	6	5	2	3	2	1	29
15	1	2	1	1	1	2	2	2	1	3	1	1	0	2	1	1	1	3	1	1	1	2	2	2	13
16	2	2	1	0	0	0	1	1	3	3	0	1	1	0	0	0	3	3	1	1	1	0	1	1	11
17	1	1	1	0	0	0	2	3	2	1	0	0	0	0	1	3	2	1	1	0	0	0	2	3	9
18	2	2	0	0	0	0	0	0	2	1	0	0	0	0	0	0	2	2	0	0	0	0	0	0	4
19	2	3	2	3	3	2	3	4	1	2	2	3	3	1	2	4	2	3	2	3	3	2	3	4	22
20	3	2	1	1	1	1	1	1	4	2	1	2	1	1	1	2	4	2	1	2	1	1	1	2	14
21	2	3	2	0	1	1	2	3	2	3	1	0	2	1	0	3	2	3	2	0	2	1	2	3	15
22	3	1	2	0	0	1	1	3	2	1	1	0	0	0	0	2	3	1	2	0	0	1	1	3	11
23	3	2	4	6	5	4	4	3	2	3	3	5	5	4	5	2	3	3	4	6	5	4	5	3	33
24	2	0	0	0	0	0	1	2	2	0	0	0	0	0	0	1	2	0	0	0	0	0	1	2	5
25	3	2	1	2	3	2	3	3	1	0	0	3	3	1	1	2	3	2	1	3	3	2	3	3	20
26	2	2	2	2	3	3	2	3	1	3	2	3	4	3	3	1	2	3	2	3	4	3	3	3	23
27	3	2	2	1	1	1	2	2	4	4	2	1	1	1	1	1	4	4	2	1	1	1	2	2	17
28	2	2	4	3	3	2	5	4	3	1	4	4	3	3	5	3	3	2	4	4	3	3	5	4	28
29	3	4	2	0	0	0	0	1	3	4	2	1	0	0	0	0	3	4	2	1	0	0	0	1	11
30	1	2	0	1	1	0	0	1	1	2	0	0	1	0	0	0	1	2	0	1	1	0	0	1	6
31	1	0	1	1	0	0	0	0	3	0	2	1	0	0	0	0	3	0	2	1	0	0	0	0	6

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1966

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 667 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1966

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	+1 min.
D	+1½
Z	-1
T	+2½

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	-4
D	+1½
Z	0
T	-2

3. Order of Traces, from top to bottom:

Sensitive Magnetograms

- H trace and baseline
- T trace
- D baseline and trace
- Z baseline and trace

Insensitive Magnetograms

- D trace and baseline
- T trace
- H baseline and trace
- Z baseline and trace

4. Sense of trace

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

H baseline values increase with increasing temperature.

Z baseline values decrease with increasing temperature.

Temperature coefficients:

H : 4.95 $\gamma/^\circ\text{C}$ Jan 01 - Aug 03
3.75 $\gamma/^\circ\text{C}$ Aug 04 - Dec 31

Z : 1.8 $\gamma/^\circ\text{C}$ Jan 01 - Feb 28
1.2 $\gamma/^\circ\text{C}$ Mar 01 - Dec 31

<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Aug 03	0.51 $^\circ\text{C}/\text{mm}$	9.87 $^\circ\text{C}$
Aug 04 - Dec 31	0.52 $^\circ\text{C}/\text{mm}$	12.46 $^\circ\text{C}$

6. Scale Values, Sensitive magnetograms

H	D	Z
4.13 γ/mm Jan 01 - May 31	0.92 γ/mm Jan 01 - Dec 31	4.08 γ/mm Jan 01 - Jan 31
4.15 γ/mm Jun 01 - Aug 03		4.07 γ/mm Feb 01 - Apr 30
4.28 γ/mm Aug 04 - Aug 31		4.08 γ/mm May 01 - May 31
4.29 γ/mm Sep 01 - Oct 31		4.09 γ/mm Jun 01 - Aug 31
4.30 γ/mm Nov 01 - Nov 30		4.10 γ/mm Sep 01 - Oct 31
4.28 γ/mm Dec 01 - Dec 31		4.11 γ/mm Nov 01 - Nov 30
		4.12 γ/mm Dec 01 - Dec 31

7. Scale of reproduction

To give scale a rule of 50 mm. length is reproduced on each magnetogram.

8. Baseline Values

Sensitive Magnetograms

H baselines

Jan 01 - Aug 03	22,971 y
Aug 04 - Aug 05	22,922 y
Aug 06 - Dec 31	22,925 y

Note: H baselines are at 0°C. Chart baselines must be calculated using temperature coefficients.

D baselines

Jan 01 - Aug 03	17° 20.1'
Aug 04 - Dec 31	17° 21.8'

Z baselines

	At 0° C	Chart baselines
Jan 01 - Jan 31		35,975 y
Feb 01 - Feb 28		35,976 y
Mar 01 - Aug 03	35,967 y	
Aug 04 - Oct 08, 0100 z		35,863 y
Oct 08 - Dec 31		35,860 y

Note: In periods when chart baselines are quoted the temperature correction varies by less than 1 y.

Lower limit K_9 : 500y

Scale values: H, 4.15y/mm; D, 6.21, y/mm

	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	0	1	1	0	3	3	4	3	0	0	0	2	4	3	4	5	0	1	1	2	4	3	4	5	20
2	4	5	2	0	0	0	1	0	5	4	3	0	0	0	0	0	5	5	3	0	0	0	1	0	14
3	2	2	0	0	0	1	0	2	3	3	1	0	1	0	0	2	3	3	1	0	1	1	0	2	11
4	2	3	2	1	0	1	1	2	2	3	2	2	1	1	1	2	2	3	2	2	1	1	1	2	14
5	2	1	2	0	0	0	1	1	0	1	2	2	0	0	0	1	2	1	2	2	0	0	1	1	9
6	2	2	2	1	1	1	1	2	3	1	2	1	2	0	1	1	3	2	2	1	2	1	1	2	14
7	4	3	1	0	0	0	1	1	4	3	2	0	0	0	1	1	4	3	2	0	0	0	1	1	11
8	2	4	1	1	1	1	1	2	3	3	3	2	1	0	0	2	3	4	3	2	1	1	1	2	17
9	2	2	1	0	0	1	1	1	1	2	1	1	0	0	0	0	2	2	1	1	0	1	1	1	9
10	0	0	2	0	0	0	2	0	1	0	1	0	0	1	1	0	1	0	2	0	0	1	2	0	6
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	0	0	1	0	1	0	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1	0	0	4
13	1	3	1	2	2	2	2	3	0	3	1	2	2	1	1	3	1	3	1	2	2	2	2	3	16
14	2	2	2	1	1	1	0	2	2	1	2	2	2	1	0	3	2	2	2	2	2	1	0	3	14
15	3	1	2	0	0	0	0	0	3	1	2	1	0	0	0	0	3	1	2	1	0	0	0	0	7
16	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
17	0	2	2	2	0	0	0	0	0	1	2	1	0	1	0	0	0	2	2	2	0	1	0	0	7
18	1	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	2	1	0	0	0	0	0	0	3
19	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1
20	0	0	2	1	1	1	0	1	0	0	3	3	2	1	0	0	0	0	3	3	2	1	0	1	10
21	2	1	0	1	0	0	0	1	3	3	1	2	0	0	0	1	3	3	1	2	0	0	0	1	10
22	4	2	3	1	2	2	1	0	3	3	3	2	2	2	1	0	4	3	3	2	2	2	1	0	17
23	2	3	3	0	1	0	0	0	1	4	4	1	1	0	0	0	2	4	4	1	1	0	0	0	12
24	1	1	1	1	0	0	2	1	2	1	1	1	1	0	0	1	2	1	1	1	1	0	2	1	9
25	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
26	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	3
27	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
28	0	2	1	1	0	0	1	0	0	1	1	2	0	0	1	0	0	2	1	2	0	0	1	0	6
29	1	2	2	0	0	1	3	2	2	2	3	0	1	0	2	1	2	2	3	0	1	1	3	2	14
30	2	3	3	1	1	1	0	2	3	3	3	2	1	2	1	2	3	3	3	2	1	2	1	2	17

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1966

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 667 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1966

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	+1 min.
D	+1½
Z	-1
T	+2½

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	-4
D	+1½
Z	0
T	-2

3. Order of Traces, from top to bottom:

Sensitive Magnetograms

H trace and baseline
T trace
D baseline and trace
Z baseline and trace

Insensitive Magnetograms

D trace and baseline
T trace
H baseline and trace
Z baseline and trace

4. Sense of trace

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

H baseline values increase with increasing temperature.

Z baseline values decrease with increasing temperature.

Temperature coefficients:

H : 4.95 $\gamma/^\circ\text{C}$ Jan 01 - Aug 03
3.75 $\gamma/^\circ\text{C}$ Aug 04 - Dec 31

Z : 1.8 $\gamma/^\circ\text{C}$ Jan 01 - Feb 28
1.2 $\gamma/^\circ\text{C}$ Mar 01 - Dec 31

<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Aug 03	0.51 $^\circ\text{C}/\text{mm}$	9.87 $^\circ\text{C}$
Aug 04 - Dec 31	0.52 $^\circ\text{C}/\text{mm}$	12.46 $^\circ\text{C}$

6. Scale Values, Sensitive magnetograms

H	D	Z
4.13 γ/mm Jan 01 - May 31	0.92 $^\circ/\text{mm}$ Jan 01 - Dec 31	4.08 γ/mm Jan 01 - Jan 31
4.15 γ/mm Jun 01 - Aug 03		4.07 γ/mm Feb 01 - Apr 30
4.28 γ/mm Aug 04 - Aug 31		4.08 γ/mm May 01 - May 31
4.29 γ/mm Sep 01 - Oct 31		4.09 γ/mm Jun 01 - Aug 31
4.30 γ/mm Nov 01 - Nov 30		4.10 γ/mm Sep 01 - Oct 31
4.28 γ/mm Dec 01 - Dec 31		4.11 γ/mm Nov 01 - Nov 30
		4.12 γ/mm Dec 01 - Dec 31

7. Scale of reproduction

To give scale a rule of 50 mm. length is reproduced on each magnetogram.

8. Baseline Values

Sensitive Magnetograms

H baselines

Jan 01 - Aug 03	22,971 y
Aug 04 - Aug 05	22,922 y
Aug 06 - Dec 31	22.925 y

Note: H baselines are at 0°C. Chart baselines must be calculated using temperature coefficients.

D baselines

Jan 01 - Aug 03	17° 20.1'
Aug 04 - Dec 31	17° 21.8'

Z baselines

	At 0° C	Chart baselines
Jan 01 - Jan 31		35,975 y
Feb 01 - Feb 28		35,976 y
Mar 01 - Aug 03	35,967 y	
Aug 04 - Oct 08, 0100 z		35,863 y
Oct 08 - Dec 31		35,860 y

Note: In periods when chart baselines are quoted the temperature correction varies by less than 1 y.

Lower Limit K₉: 500y

Scale values: H, 4.15y/mm; D, 6.24y/mm

	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	2	0	0	1	1	1	3	3	3	1	0	1	1	1	3	4	3	1	0	1	1	1	14
2	2	4	3	3	2	1	3	3	3	3	4	3	1	2	2	2	3	4	4	3	2	2	3	3	24
3	1	1	1	0	0	1	2	3	1	2	2	0	0	0	1	3	1	2	2	0	0	1	2	3	11
4	2	3	3	2	1	0	2	3	3	3	4	4	2	0	1	4	3	3	4	4	2	0	2	4	22
5	2	0	3	0	1	0	2	2	2	1	3	0	1	0	1	2	2	1	3	0	1	0	2	2	11
6	2	3	3	1	0	0	0	1	3	4	4	2	0	0	0	2	3	4	4	2	0	0	0	2	15
7	2	0	0	1	0	0	0	2	2	0	0	1	0	0	0	2	2	0	0	1	0	0	0	2	5
8	1	0	0	1	0	1	2	2	1	1	0	1	0	1	1	2	1	1	0	1	0	1	2	2	8
9	1	2	2	0	0	0	0	0	2	2	2	0	0	0	0	0	2	2	2	0	0	0	0	0	6
10	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
11	0	0	0	0	1	1	1	3	0	0	0	0	1	1	1	3	0	0	0	0	1	1	1	3	6
12	2	2	1	0	1	1	2	2	2	2	1	0	0	0	1	3	2	2	1	0	1	1	2	3	12
13	3	2	2	2	1	1	0	0	3	2	3	3	1	1	0	0	3	2	3	3	1	1	0	0	13
14	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1
15	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
16	0	0	0	0	0	0	3	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	3	2	5
17	3	2	1	1	0	0	0	1	3	3	2	2	0	0	0	2	3	3	2	2	0	0	0	2	12
18	3	2	1	0	0	0	0	0	4	2	2	1	0	0	0	0	4	2	2	1	0	0	0	0	9
19	1	2	1	0	0	0	1	0	1	2	1	0	0	0	2	1	1	2	1	0	0	0	2	1	7
20	0	1	1	1	0	0	2	3	1	0	2	1	0	0	2	2	1	1	2	1	0	0	2	3	10
21	1	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	3
22	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	2
23	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1
24	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
25	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	3
26	1	2	3	5	4	3	4	6	0	1	3	6	5	5	5	7	1	2	3	6	5	5	5	7	34
27	3	1	2	0	0	0	0	0	4	0	1	0	0	0	0	0	4	1	2	0	0	0	0	0	7
28	1	1	2	0	0	1	1	2	1	0	1	0	0	0	0	2	1	1	2	0	0	1	1	2	8
29	1	1	0	0	0	0	1	0	0	1	1	0	0	0	0	1	1	1	1	0	0	0	1	1	5
30	0	0	0	1	0	0	2	3	1	0	1	2	0	0	2	4	1	0	1	2	0	0	2	4	10
31	3	4	3	3	3	3	5	4	3	5	5	4	4	3	3	5	3	5	5	4	4	3	5	5	34

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1966

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 667 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1966

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	+1 min.
D	+1½
Z	-1
T	+2½

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	-4
D	+1½
Z	0
T	-2

3. Order of Traces, from top to bottom:

Sensitive Magnetograms

H trace and baseline
T trace
D baseline and trace
Z baseline and trace

Insensitive Magnetograms

D trace and baseline
T trace
H baseline and trace
Z baseline and trace

4. Sense of trace

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

H baseline values increase with increasing temperature.
Z baseline values decrease with increasing temperature.

Temperature coefficients:

H : 4.95 $\gamma/^\circ\text{C}$ Jan 01 - Aug 03 Z : 1.8 $\gamma/^\circ\text{C}$ Jan 01 - Feb 28
3.75 $\gamma/^\circ\text{C}$ Aug 04 - Dec 31 1.2 $\gamma/^\circ\text{C}$ Mar 01 - Dec 31

<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Aug 03	0.51 $^\circ\text{C}/\text{mm}$	9.87 $^\circ\text{C}$
Aug 04 - Dec 31	0.52 $^\circ\text{C}/\text{mm}$	12.46 $^\circ\text{C}$

6. Scale Values, Sensitive magnetograms

H	D	Z
4.13 γ/mm Jan 01 - May 31	0.92' /mm Jan 01 - Dec 31	4.08 γ/mm Jan 01 - Jan 31
4.15 γ/mm Jun 01 - Aug 03		4.07 γ/mm Feb 01 - Apr 30
4.28 γ/mm Aug 04 - Aug 31		4.08 γ/mm May 01 - May 31
4.29 γ/mm Sep 01 - Oct 31		4.09 γ/mm Jun 01 - Aug 31
4.30 γ/mm Nov 01 - Nov 30		4.10 γ/mm Sep 01 - Oct 31
4.28 γ/mm Dec 01 - Dec 31		4.11 γ/mm Nov 01 - Nov 30
		4.12 γ/mm Dec 01 - Dec 31

7. Scale of reproduction

To give scale a rule of 50 mm. length is reproduced on each magnetogram.

8. Baseline Values

Sensitive Magnetograms

H baselines

Jan 01 - Aug 03	22,971 y
Aug 04 - Aug 05	22,922 y
Aug 06 - Dec 31	22.925 y

Note: H baselines are at 0°C. Chart baselines must be calculated using temperature coefficients.

D baselines

Jan 01 - Aug 03	17° 20.1'
Aug 04 - Dec 31	17° 21.8'

Z baselines

	At 0° C	Chart baselines
Jan 01 - Jan 31		35,975 y
Feb 01 - Feb 28		35,976 y
Mar 01 - Aug 03	35,967 y	
Aug 04 - Oct 08, 0100 z		35,863 y
Oct 08 - Dec 31		35,860 y

Note: In periods when chart baselines are quoted the temperature correction varies by less than 1 y.

Lower limit K_9 : 500 γ

Scale values: H, 4.15 γ /mm; D, 6.24 γ /mm.

	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	5	3	3	0	0	0	0	0	6	3	4	0	0	0	0	0	6	3	4	0	0	0	0	0	13
2	1	1	1	3	3	1	1	1	0	0	1	3	1	1	1	0	1	1	1	3	3	1	1	1	12
3	0	2	1	1	0	2	2	1	1	2	1	0	0	2	1	0	1	2	1	1	0	2	2	1	10
4	1	2	0	0	0	0	0	1	3	3	0	0	0	0	0	1	3	3	0	0	0	0	0	1	7
5	2	2	1	1	1	0	0	0	2	2	1	0	0	0	0	0	2	2	1	1	1	0	0	0	7
6	2	2	1	0	0	0	0	1	3	3	1	0	0	0	0	0	3	3	1	0	0	0	0	1	8
7	1	3	0	2	2	1	1	0	2	4	2	2	2	1	1	0	2	4	2	2	2	1	1	0	14
8	1	1	1	1	0	0	0	0	1	0	1	2	1	0	0	0	1	1	1	2	1	0	0	0	6
9	0	0	0	1	1	0	0	1	0	0	0	2	1	0	0	0	0	0	0	2	1	0	0	1	4
10	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
11	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1
12	1	3	1	0	1	0	0	1	0	3	3	1	2	1	0	3	1	3	3	1	2	1	0	3	14
13	1	1	2	1	0	0	0	1	2	2	3	1	0	0	0	0	2	2	3	1	0	0	0	1	9
14	2	1	2	2	0	0	1	1	2	1	3	2	0	0	1	1	2	1	3	2	0	0	1	1	10
15	2	0	1	0	0	0	2	3	2	0	0	1	0	0	2	3	2	0	1	1	0	0	2	3	9
16	3	2	0	0	0	0	1	2	2	1	1	1	0	0	1	3	3	2	1	1	0	0	1	3	11
17	1	2	0	0	0	0	0	1	1	2	0	0	0	0	0	1	1	2	0	0	0	0	0	1	4
18	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
19	0	0	1	0	1	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	1	1	0	5
20	0	1	2	1	1	1	1	0	0	2	3	2	2	2	1	0	0	2	3	2	2	2	1	0	12
21	1	1	0	0	0	0	0	0	2	2	1	2	1	0	0	0	2	2	1	2	1	0	0	0	8
22	0	1	1	1	0	0	0	1	0	0	0	1	0	0	0	1	0	1	1	1	0	0	0	1	4
23	1	1	1	2	3	2	2	3	2	0	0	2	2	1	3	3	2	1	1	2	3	2	3	3	17
24	1	1	0	1	1	2	4	3	1	0	0	1	1	1	3	4	1	1	0	1	1	2	4	4	14
25	4	4	2	3	1	3	1	3	4	4	3	3	1	2	2	1	4	4	3	3	1	3	2	3	23
26	1	0	0	1	0	1	1	2	2	0	0	1	1	0	1	3	2	0	0	1	1	1	1	3	9
27	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
28	0	1	0	0	0	1	1	2	0	1	0	0	0	1	2	1	0	1	0	0	0	1	2	2	6
29	2	1	1	0	0	0	2	3	2	1	0	0	0	0	0	2	2	1	1	0	0	0	2	3	9
30	2	2	2	1	0	0	1	4	3	2	3	1	0	1	1	4	3	2	3	1	0	1	1	4	15

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1966

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 667 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1966

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	+1 min.
D	+1½
Z	-1
T	+2½

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	-4
D	+1½
Z	0
T	-2

3. Order of Traces, from top to bottom:

Sensitive Magnetograms

H trace and baseline
T trace
D baseline and trace
Z baseline and trace

Insensitive Magnetograms

D trace and baseline
T trace
H baseline and trace
Z baseline and trace

4. Sense of trace

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

H baseline values increase with increasing temperature.
Z baseline values decrease with increasing temperature.

Temperature coefficients:

H : 4.95 $\gamma/^\circ\text{C}$ Jan 01 - Aug 03 Z : 1.8 $\gamma/^\circ\text{C}$ Jan 01 - Feb 28
 3.75 $\gamma/^\circ\text{C}$ Aug 04 - Dec 31 1.2 $\gamma/^\circ\text{C}$ Mar 01 - Dec 31

<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Aug 03	0.51 $^\circ\text{C}/\text{mm}$	9.87 $^\circ\text{C}$
Aug 04 - Dec 31	0.52 $^\circ\text{C}/\text{mm}$	12.46 $^\circ\text{C}$

6. Scale Values, Sensitive magnetograms

H	D	Z
4.13 γ/mm Jan 01 - May 31	0.92 γ/mm Jan 01 - Dec 31	4.08 γ/mm Jan 01 - Jan 31
4.15 γ/mm Jun 01 - Aug 03		4.07 γ/mm Feb 01 - Apr 30
4.28 γ/mm Aug 04 - Aug 31		4.08 γ/mm May 01 - May 31
4.29 γ/mm Sep 01 - Oct 31		4.09 γ/mm Jun 01 - Aug 31
4.30 γ/mm Nov 01 - Nov 30		4.10 γ/mm Sep 01 - Oct 31
4.28 γ/mm Dec 01 - Dec 31		4.11 γ/mm Nov 01 - Nov 30
		4.12 γ/mm Dec 01 - Dec 31

7. Scale of reproduction

To give scale a rule of 50 mm. length is reproduced on each magnetogram.

8. Baseline Values

Sensitive Magnetograms

H baselines

Jan 01 - Aug 03	22,971 y
Aug 04 - Aug 05	22,922 y
Aug 06 - Dec 31	22.925 y

Note: H baselines are at 0°C. Chart baselines must be calculated using temperature coefficients.

D baselines

Jan 01 - Aug 03	17° 20.1'
Aug 04 - Dec 31	17° 21.8'

Z baselines

	At 0° C	Chart baselines
Jan 01 - Jan 31		35,975 y
Feb 01 - Feb 28		35,976 y
Mar 01 - Aug 03	35,967 y	
Aug 04 - Oct 08, 0100 z		35,863 y
Oct 08 - Dec 31		35,860 y

Note: In periods when chart baselines are quoted the temperature correction varies by less than 1 y.

Lower limit K9: 500y

Scale values: H, 4.15y/mm; D, 6.24y/mm

	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	3	1	0	1	0	0	1	3	3	2	2	0	0	0	2	3	3	2	2	1	0	0	2	13
2	1	0	2	0	0	0	0	2	1	1	2	0	0	0	0	2	1	1	2	0	0	0	0	2	6
3	1	3	1	0	0	0	1	0	1	3	1	0	0	0	1	0	1	3	1	0	0	0	1	0	6
4	1	2	1	2	2	2	1	4	1	2	2	2	1	2	1	3	1	2	2	2	2	2	1	4	16
5	2	2	1	0	0	0	1	0	2	2	2	0	0	0	1	0	2	2	2	0	0	0	1	0	7
6	1	1	1	0	0	0	0	0	1	1	2	1	1	0	0	0	1	1	2	1	1	0	0	0	6
7	2	1	0	0	0	0	0	0	2	1	0	0	0	0	0	1	2	1	0	0	0	0	0	1	4
8	2	3	4	3	2	2	2	4	2	2	4	3	2	2	2	4	2	3	4	3	2	2	2	4	22
9	4	4	5	2	1	2	2	3	6	5	6	3	2	1	2	0	6	5	6	3	2	2	2	3	29
10	3	3	3	4	3	1	2	2	3	5	5	5	2	1	0	3	3	5	5	5	3	1	2	3	27
11	2	2	2	0	0	1	0	5	3	3	4	1	0	1	0	4	3	3	4	1	0	1	0	5	17
12	4	5	4	3	2	0	0	0	3	5	4	3	2	0	0	0	4	5	4	3	2	0	0	0	18
13	1	1	0	0	0	0	0	0	2	2	1	0	0	0	0	0	2	2	1	0	0	0	0	0	5
14	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	4
15	0	1	0	0	0	1	1	3	0	1	0	0	0	1	1	2	0	1	0	0	0	1	1	3	6
16	1	1	1	0	0	0	1	3	1	1	2	0	0	0	0	2	1	1	2	0	0	0	1	3	8
17	4	3	2	2	1	0	1	2	3	4	3	2	0	1	1	2	4	4	3	2	1	1	1	2	18
18	0	2	1	1	0	0	1	0	0	3	2	2	0	0	1	0	0	3	2	2	0	0	1	0	8
19	0	2	2	0	0	1	0	0	0	2	2	0	0	0	0	0	0	2	2	0	0	1	0	0	5
20	1	0	2	1	0	0	1	2	0	2	2	1	0	0	0	3	1	2	2	1	0	0	1	3	10
21	3	3	2	1	2	2	2	2	4	3	2	2	2	2	2	3	4	3	2	2	2	2	2	3	20
22	4	2	0	0	0	0	2	1	5	3	2	1	0	0	2	1	5	3	2	1	0	0	2	1	14
23	1	2	2	2	1	0	0	2	1	3	2	2	0	0	0	2	1	3	2	2	1	0	0	2	11
24	3	2	1	2	1	0	0	1	3	3	0	1	1	0	0	0	3	3	1	2	1	0	0	1	11
25	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	2
26	2	1	0	1	0	1	2	2	3	2	1	2	0	0	1	2	3	2	1	2	0	1	2	2	13
27	2	2	3	2	3	2	1	1	2	2	3	2	3	2	0	0	2	2	3	2	3	2	1	1	16
28	2	3	3	2	1	0	0	1	4	5	4	2	1	1	1	1	4	5	4	2	1	1	1	1	19
29	3	2	1	0	1	1	1	0	3	2	1	1	1	0	0	0	3	2	1	1	1	1	1	0	10
30	0	3	2	1	0	0	0	0	0	3	4	0	0	0	0	0	0	3	4	1	0	0	0	0	8
31	1	1	2	1	0	0	1	2	2	1	2	1	0	1	0	2	2	1	2	1	0	1	1	2	10

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1966

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 667 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1966

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	+1 min.
D	+1½
Z	-1
T	+2½

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	-4
D	+1½
Z	0
T	-2

3. Order of Traces, from top to bottom:

Sensitive Magnetograms

H trace and baseline
T trace
D baseline and trace
Z baseline and trace

Insensitive Magnetograms

D trace and baseline
T trace
H baseline and trace
Z baseline and trace

4. Sense of trace

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

H baseline values increase with increasing temperature.

Z baseline values decrease with increasing temperature.

Temperature coefficients:

H : 4.95 $\gamma/^\circ\text{C}$ Jan 01 - Aug 03
3.75 $\gamma/^\circ\text{C}$ Aug 04 - Dec 31

Z : 1.8 $\gamma/^\circ\text{C}$ Jan 01 - Feb 28
1.2 $\gamma/^\circ\text{C}$ Mar 01 - Dec 31

<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Aug 03	0.51 $^\circ\text{C}/\text{mm}$	9.87 $^\circ\text{C}$
Aug 04 - Dec 31	0.52 $^\circ\text{C}/\text{mm}$	12.46 $^\circ\text{C}$

6. Scale Values, Sensitive magnetograms

H	D	Z
4.13 γ/mm Jan 01 - May 31	0.92 γ/mm Jan 01 - Dec 31	4.08 γ/mm Jan 01 - Jan 31
4.15 γ/mm Jun 01 - Aug 03		4.07 γ/mm Feb 01 - Apr 30
4.28 γ/mm Aug 04 - Aug 31		4.08 γ/mm May 01 - May 31
4.29 γ/mm Sep 01 - Oct 31		4.09 γ/mm Jun 01 - Aug 31
4.30 γ/mm Nov 01 - Nov 30		4.10 γ/mm Sep 01 - Oct 31
4.28 γ/mm Dec 01 - Dec 31		4.11 γ/mm Nov 01 - Nov 30
		4.12 γ/mm Dec 01 - Dec 31

7. Scale of reproduction

To give scale a rule of 50 mm. length is reproduced on each magnetogram.

8. Baseline Values

Sensitive Magnetograms

H baselines

Jan 01 - Aug 03	22,971 y
Aug 04 - Aug 05	22,922 y
Aug 06 - Dec 31	22.925 y

Note: H baselines are at 0°C. Chart baselines must be calculated using temperature coefficients.

D baselines

Jan 01 - Aug 03	17° 20.1'
Aug 04 - Dec 31	17° 21.8'

Z baselines

	At 0° C	Chart baselines
Jan 01 - Jan 31		35,975 y
Feb 01 - Feb 28		35,976 y
Mar 01 - Aug 03	35,967 y	
Aug 04 - Oct 08, 0100 z		35,863 y
Oct 08 - Dec 31		35,860 y

Note: In periods when chart baselines are quoted the temperature correction varies by less than 1 y.

... limit is: 500γ

... values: H, 4.28γ/mm; D, 6.21γ/mm

	K_{H_1}								K_{D_1}								Lux(K_{H_1}, K_{D_1})								Sum
	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	
1	2	2	2	0	0	0	1	1	2	3	2	1	1	0	0	2	2	3	2	1	1	0	1	2	12
2	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
3	1	3	2	1	0	2	1	1	0	3	2	2	0	2	0	0	1	3	2	2	0	2	1	1	12
4	1	0	1	2	2	1	1	2	0	0	2	2	3	2	1	3	1	0	2	2	3	2	1	3	14
5	3	2	1	2	2	2	1	1	2	3	3	2	1	2	1	1	3	3	4	2	2	2	1	1	18
6	2	2	2	2	0	1	1	1	2	3	2	2	0	1	1	1	2	3	2	2	0	1	1	1	12
7	3	3	0	0	0	0	0	1	3	1	0	0	0	0	0	1	3	3	0	0	0	0	0	1	7
8	0	0	1	0	0	0	1	2	1	0	0	0	0	0	0	2	1	0	1	0	0	0	1	2	5
9	3	3	3	0	1	1	3	2	2	2	3	1	0	1	3	2	3	3	3	1	1	1	3	2	17
10	3	2	1	2	3	1	1	2	3	3	2	3	2	1	1	2	3	3	2	3	3	1	1	2	18
11	1	3	3	2	2	2	2	2	0	3	3	3	2	1	1	2	1	3	3	3	2	2	2	2	18
12	2	4	3	2	2	2	2	2	4	4	3	3	2	2	0	3	4	4	3	3	2	2	2	3	23
13	3	3	1	1	0	1	1	2	3	3	1	1	0	0	0	0	3	3	1	1	0	1	1	2	12
14	2	3	3	2	0	0	1	1	3	3	4	3	0	0	0	0	3	3	4	3	0	0	1	1	15
15	1	1	2	1	1	1	0	0	1	2	2	2	1	1	0	0	1	2	2	2	1	1	0	0	9
16	2	1	1	0	0	0	0	0	3	1	2	1	0	0	0	0	3	1	2	1	0	0	0	0	7
17	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2
18	0	1	1	2	3	2	2	0	0	1	1	2	1	2	2	0	0	1	1	2	3	2	2	0	11
19	3	4	2	3	4	3	3	2	3	5	2	4	3	3	3	1	3	5	2	4	4	3	3	2	26
20	2	1	2	1	0	1	1	2	4	2	3	2	0	0	0	2	4	2	3	2	0	1	1	2	15
21	3	2	0	0	0	1	1	1	2	1	1	0	0	0	0	0	3	2	1	0	0	1	1	1	9
22	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	3
23	3	2	2	3	3	3	3	4	3	3	2	4	3	3	3	4	3	3	2	4	3	3	3	4	25
24	3	2	1	1	2	1	2	3	5	1	0	4	4	1	1	3	5	2	1	4	4	1	2	3	22
25	3	2	1	2	1	1	2	2	3	2	1	2	2	1	1	3	3	2	1	2	2	1	2	3	16
26	2	3	1	0	0	0	0	2	3	3	1	0	0	0	0	3	3	3	1	0	0	0	0	3	10
27	2	2	1	1	0	1	0	0	2	3	1	2	0	0	0	0	2	3	1	2	0	1	0	0	9
28	0	0	1	0	1	2	1	2	0	0	0	0	0	1	1	0	0	0	1	0	1	2	1	2	7
29	1	0	0	0	3	1	1	5	0	0	0	0	3	0	0	4	1	0	0	0	3	1	1	5	11
30	4	4	3	4	3	4	5	5	6	6	3	3	3	4	6	5	6	6	3	4	3	4	6	5	37
31	5	3	3	1	3	2	3	3	5	3	2	1	3	2	2	2	5	3	3	1	3	2	3	3	23

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1966

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 667 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1966

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	+1 min.
D	+1½
Z	-1
T	+2½

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	-4
D	+1½
Z	0
T	-2

3. Order of Traces, from top to bottom:

Sensitive Magnetograms

H trace and baseline
T trace
D baseline and trace
Z baseline and trace

Insensitive Magnetograms

D trace and baseline
T trace
H baseline and trace
Z baseline and trace

4. Sense of trace

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

H baseline values increase with increasing temperature.
Z baseline values decrease with increasing temperature.

Temperature coefficients:

H : 4.95 $\gamma/^\circ\text{C}$ Jan 01 - Aug 03 Z : 1.8 $\gamma/^\circ\text{C}$ Jan 01 - Feb 28
3.75 $\gamma/^\circ\text{C}$ Aug 04 - Dec 31 1.2 $\gamma/^\circ\text{C}$ Mar 01 - Dec 31

<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Aug 03	0.51 $^\circ\text{C}/\text{mm}$	9.87 $^\circ\text{C}$
Aug 04 - Dec 31	0.52 $^\circ\text{C}/\text{mm}$	12.46 $^\circ\text{C}$

6. Scale Values, Sensitive magnetograms

H	D	Z
4.13 γ/mm Jan 01 - May 31	0.92 γ/mm Jan 01 - Dec 31	4.08 γ/mm Jan 01 - Jan 31
4.15 γ/mm Jun 01 - Aug 03		4.07 γ/mm Feb 01 - Apr 30
4.28 γ/mm Aug 04 - Aug 31		4.08 γ/mm May 01 - May 31
4.29 γ/mm Sep 01 - Oct 31		4.09 γ/mm Jun 01 - Aug 31
4.30 γ/mm Nov 01 - Nov 30		4.10 γ/mm Sep 01 - Oct 31
4.28 γ/mm Dec 01 - Dec 31		4.11 γ/mm Nov 01 - Nov 30
		4.12 γ/mm Dec 01 - Dec 31

7. Scale of reproduction

To give scale a rule of 50 mm. length is reproduced on each magnetogram.

8. Baseline Values

Sensitive Magnetograms

H baselines

Jan 01 - Aug 03	22,971 y
Aug 04 - Aug 05	22,922 y
Aug 06 - Dec 31	22.925 y

Note: H baselines are at 0°C. Chart baselines must be calculated using temperature coefficients.

D baselines

Jan 01 - Aug 03	17° 20.1'
Aug 04 - Dec 31	17° 21.8'

Z baselines

	At 0° C	Chart baselines
Jan 01 - Jan 31		35,975 y
Feb 01 - Feb 28		35,976 y
Mar 01 - Aug 03	35,967 y	
Aug 04 - Oct 08, 0100 z		35,863 y
Oct 08 - Dec 31		35,860 y

Note: In periods when chart baselines are quoted the temperature correction varies by less than 1 y.

Lower limit K_9 : 500y

Scale values: H, 4.28y/mm; D, 6.24y/mm

	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	3	3	1	3	3	2	3	3	3	1	3	3	4	2	3	3	3	3	3	3	4	24
2	3	2	1	0	2	2	4	3	5	1	1	0	2	2	3	1	5	2	1	0	2	2	4	3	19
3	3	3	3	5	5	3	4	6	2	2	5	5	3	3	4	7	3	3	5	5	5	3	4	7	35
4	7	6	6	4	3	3	5	2	8	8	6	6	4	3	3	2	8	8	6	6	4	3	3	2	40
5	1	2	1	1	4	2	2	2	2	1	0	2	3	1	0	1	2	2	1	2	4	2	2	2	17
6	3	4	4	3	4	3	1	1	5	5	4	4	2	3	1	1	5	5	4	4	4	3	1	1	27
7	2	2	1	2	3	2	2	3	3	3	1	1	2	3	3	3	3	3	1	2	3	3	3	3	21
8	2	3	3	3	4	3	2	4	4	4	4	5	4	2	3	4	4	4	4	5	4	3	3	4	31
9	2	2	3	3	2	3	2	4	3	2	3	3	2	2	2	5	3	2	3	3	2	3	2	5	23
10	4	4	1	2	2	2	2	2	3	3	3	3	2	2	2	3	4	4	3	3	2	2	2	3	23
11	1	2	3	1	1	1	0	1	2	2	2	1	0	0	0	0	2	2	3	1	1	1	0	1	11
12	0	0	1	1	1	1	0	1	0	0	1	1	1	0	0	1	0	0	1	1	1	1	0	1	5
13	1	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	2	0	0	0	0	0	0	3
14	1	1	1	0	0	3	2	3	0	0	1	0	1	2	1	3	1	1	1	0	1	3	2	3	12
15	4	4	3	2	1	0	4	3	5	4	3	3	3	0	2	3	5	4	3	3	3	0	4	3	25
16	3	2	1	0	1	1	2	2	4	1	0	2	2	1	1	1	4	2	1	2	2	1	2	2	16
17	3	3	2	1	0	0	0	1	4	4	2	1	0	0	0	1	4	4	2	1	0	0	0	1	12
18	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	1	0	0	0	1	1	0	0	1	3
19	3	3	2	1	0	2	3	4	2	3	2	0	2	2	1	4	3	3	2	1	2	2	3	4	20
20	2	3	2	2	3	3	3	2	3	3	3	3	3	3	2	4	3	3	3	3	3	3	3	4	25
21	2	3	1	1	3	0	1	1	4	4	1	2	2	0	0	0	4	4	1	2	3	0	1	1	16
22	2	1	1	0	0	1	2	2	2	2	1	1	0	0	1	1	2	2	1	1	0	1	2	2	11
23	2	2	3	1	2	3	3	3	2	3	3	3	3	4	4	1	2	3	3	3	3	4	4	3	25
24	3	2	3	2	2	3	3	1	2	1	2	2	2	2	3	0	3	2	3	2	2	3	3	1	19
25	3	4	3	1	0	0	0	3	3	4	3	0	0	0	0	2	3	4	3	1	0	0	0	3	14
26	4	2	3	3	3	3	4	3	4	1	3	3	3	3	5	3	4	2	3	3	3	3	5	3	26
27	4	3	2	2	3	3	2	3	4	4	3	3	3	2	1	2	4	4	3	3	3	3	2	3	25
28	4	4	1	2	1	2	1	3	4	4	2	2	3	3	1	2	4	4	2	2	3	3	1	3	22
29	3	3	3	2	1	3	3	1	3	5	3	2	2	2	2	1	3	5	3	2	2	3	3	1	22
30	1	3	3	3	2	2	1	3	2	4	4	2	3	2	1	3	2	4	4	3	3	2	1	3	22

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1966

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 667 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1966

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	+1 min.
D	+1½
Z	-1
T	+2½

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	-4
D	+1½
Z	0
T	-2

3. Order of Traces, from top to bottom:

Sensitive Magnetograms

H trace and baseline
T trace
D baseline and trace
Z baseline and trace

Insensitive Magnetograms

D trace and baseline
T trace
H baseline and trace
Z baseline and trace

4. Sense of trace

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

H baseline values increase with increasing temperature.

Z baseline values decrease with increasing temperature.

Temperature coefficients:

H : 4.95 $\gamma/^\circ\text{C}$ Jan 01 - Aug 03
3.75 $\gamma/^\circ\text{C}$ Aug 04 - Dec 31

Z : 1.8 $\gamma/^\circ\text{C}$ Jan 01 - Feb 28
1.2 $\gamma/^\circ\text{C}$ Mar 01 - Dec 31

<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Aug 03	0.51 $^\circ\text{C}/\text{mm}$	9.87 $^\circ\text{C}$
Aug 04 - Dec 31	0.52 $^\circ\text{C}/\text{mm}$	12.46 $^\circ\text{C}$

6. Scale Values, Sensitive magnetograms

H	D	Z
4.13 γ/mm Jan 01 - May 31	0.92 γ/mm Jan 01 - Dec 31	4.08 γ/mm Jan 01 - Jan 31
4.15 γ/mm Jun 01 - Aug 03		4.07 γ/mm Feb 01 - Apr 30
4.28 γ/mm Aug 04 - Aug 31		4.08 γ/mm May 01 - May 31
4.29 γ/mm Sep 01 - Oct 31		4.09 γ/mm Jun 01 - Aug 31
4.30 γ/mm Nov 01 - Nov 30		4.10 γ/mm Sep 01 - Oct 31
4.28 γ/mm Dec 01 - Dec 31		4.11 γ/mm Nov 01 - Nov 30
		4.12 γ/mm Dec 01 - Dec 31

7. Scale of reproduction

To give scale a rule of 50 mm. length is reproduced on each magnetogram.

Lower limit K9: 500y

Scale values: H, 4.28y/mm; D, 6.24y/mm

	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	1	1	0	0	0	1	3	1	2	1	1	0	0	0	3	2	2	1	1	0	0	1	10
2	0	0	1	0	1	0	0	1	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	1	5
3	0	1	2	0	0	0	1	2	0	1	2	0	0	0	0	0	0	1	2	0	0	0	1	2	6
4	2	2	2	2	1	2	5	4	1	2	1	3	2	2	4	5	2	2	2	3	2	2	5	5	23
5	4	3	4	4	2	3	3	3	4	5	4	4	2	3	3	3	4	5	4	4	2	3	3	3	28
6	2	3	3	2	3	2	2	2	3	4	4	3	2	1	1	3	3	4	4	3	3	2	2	3	24
7	2	2	1	0	0	0	1	3	1	2	0	0	1	0	0	2	2	2	1	0	1	0	1	3	10
8	2	1	1	0	0	0	0	0	0	1	2	2	1	1	1	0	2	1	2	2	1	1	1	0	10
9	2	2	2	1	1	2	2	3	1	2	3	2	1	0	1	0	2	2	3	2	1	2	2	3	17
10	1	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	1	0	0	1	0	0	2	1	5
11	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	1	0	3
12	1	1	3	1	1	2	3	3	1	2	3	3	2	1	1	1	1	2	3	3	2	2	3	3	19
13	2	0	1	2	1	2	1	3	3	0	1	2	1	0	0	3	3	0	1	2	1	2	1	3	13
14	1	2	2	0	0	0	1	1	2	2	2	0	0	0	0	0	2	2	2	0	0	0	1	1	8
15	1	1	1	2	1	3	4	4	2	1	1	2	2	3	3	2	2	1	1	2	2	3	4	4	19
16	3	4	4	3	3	3	3	2	3	3	5	5	4	3	2	0	3	4	5	5	4	3	3	2	29
17	0	1	0	0	0	2	1	1	0	2	0	0	0	2	0	0	0	2	0	0	0	2	1	1	6
18	3	1	1	0	0	0	1	1	2	0	0	1	1	0	0	1	3	1	1	1	1	0	1	1	9
19	1	0	1	0	0	1	1	2	1	2	1	1	0	1	1	1	1	2	1	1	0	1	1	2	9
20	1	1	0	0	0	1	1	1	2	2	1	1	1	1	1	0	2	2	1	1	1	1	1	1	10
21	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	2
22	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
23	1	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	2	5
24	2	2	2	2	2	3	3	3	1	1	2	3	3	3	2	2	2	2	2	3	3	3	3	3	21
25	3	1	3	3	3	2	3	4	4	3	4	3	3	2	2	5	4	3	4	3	3	2	3	5	27
26	2	3	1	2	2	3	2	2	4	4	1	2	2	2	1	1	4	4	1	2	2	3	2	2	20
27	1	0	1	1	1	2	2	3	2	0	1	2	1	1	1	3	2	0	1	2	1	2	2	3	13
28	1	0	0	0	0	0	1	2	2	0	1	1	0	0	1	2	2	0	1	1	0	0	1	2	7
29	0	0	1	0	0	1	1	0	0	0	1	0	0	1	0	0	0	0	1	0	0	1	1	0	3
30	2	1	0	0	1	3	2	4	1	1	0	1	2	3	3	3	2	1	0	1	2	3	3	4	16
31	4	3	2	3	3	4	4	3	5	3	4	4	3	3	4	2	5	3	4	4	3	4	4	3	30

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1966

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 667 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1966

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	+1 min.
D	+1½
Z	-1
T	+2½

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	-4
D	+1½
Z	0
T	-2

3. Order of Traces, from top to bottom:

Sensitive Magnetograms

H trace and baseline
T trace
D baseline and trace
Z baseline and trace

Insensitive Magnetograms

D trace and baseline
T trace
H baseline and trace
Z baseline and trace

4. Sense of trace

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

H baseline values increase with increasing temperature.
Z baseline values decrease with increasing temperature.

Temperature coefficients:

H : 4.95 $\gamma/^\circ\text{C}$ Jan 01 - Aug 03 Z : 1.8 $\gamma/^\circ\text{C}$ Jan 01 - Feb 28
 3.75 $\gamma/^\circ\text{C}$ Aug 04 - Dec 31 1.2 $\gamma/^\circ\text{C}$ Mar 01 - Dec 31

<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Aug 03	0.51 $^\circ\text{C}/\text{mm}$	9.87 $^\circ\text{C}$
Aug 04 - Dec 31	0.52 $^\circ\text{C}/\text{mm}$	12.46 $^\circ\text{C}$

6. Scale Values, Sensitive magnetograms

H	D	Z
4.13 γ/mm Jan 01 - May 31	0.92 γ/mm Jan 01 - Dec 31	4.08 γ/mm Jan 01 - Jan 31
4.15 γ/mm Jun 01 - Aug 03		4.07 γ/mm Feb 01 - Apr 30
4.28 γ/mm Aug 04 - Aug 31		4.08 γ/mm May 01 - May 31
4.29 γ/mm Sep 01 - Oct 31		4.09 γ/mm Jun 01 - Aug 31
4.30 γ/mm Nov 01 - Nov 30		4.10 γ/mm Sep 01 - Oct 31
4.28 γ/mm Dec 01 - Dec 31		4.11 γ/mm Nov 01 - Nov 30
		4.12 γ/mm Dec 01 - Dec 31

7. Scale of reproduction

To give scale a rule of 50 mm. length is reproduced on each magnetogram.

8. Baseline Values

Sensitive Magnetograms

H baselines

Jan 01 - Aug 03	22,971 y
Aug 04 - Aug 05	22,922 y
Aug 06 - Dec 31	22,925 y

Note: H baselines are at 0°C. Chart baselines must be calculated using temperature coefficients.

D baselines

Jan 01 - Aug 03	17° 20.1'
Aug 04 - Dec 31	17° 21.8'

Z baselines

	At 0° C	Chart baselines
Jan 01 - Jan 31		35,975 y
Feb 01 - Feb 28		35,976 y
Mar 01 - Aug 03	35,967 y	
Aug 04 - Oct 08, 0100 z		35,863 y
Oct 08 - Dec 31		35,860 y

Note: In periods when chart baselines are quoted the temperature correction varies by less than 1 y.

lower limit K9: 500y

scale values: H, 4.28y/mm; D, 6.24y/mm

	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	3	3	2	3	3	1	4	4	3	3	2	3	4	3	4	4	3	3	2	3	26
2	3	1	1	1	1	2	3	3	3	0	1	3	2	2	3	3	3	1	1	3	2	2	3	3	18
3	1	2	2	3	2	2	2	3	1	2	3	3	2	2	2	2	1	2	3	3	2	2	2	3	18
4	2	2	1	0	0	0	3	2	2	1	1	0	1	0	3	1	2	2	1	0	1	0	3	2	11
5	1	2	2	1		1	2	1	1	2	2	2	1	0	1	0	1	2	2	2	1	1	2	1	12
6	1	2	1	1	1	1	1	1	0	1	1	2	2	0	0	0	1	2	1	2	2	1	1	1	11
7	1	0	0	0	0	0	2	3	0	0	1	1	0	0	1	4	1	0	1	1	0	0	2	4	9
8	3	2	1	0	1	2	2	0	3	2	1	1	1	2	2	0	3	2	1	1	1	2	2	0	12
9	1	1	0	0	0	0	1	1	0	1	1	1	0	0	0	0	1	1	1	1	0	0	1	1	6
10	1	1	2	2	2	2	2	2	0	2	3	3	3	1	2	0	1	2	3	3	3	2	2	2	18
11	2	2	2	1	1	1	1	0	1	2	1	3	0	0	0	0	2	2	2	3	1	1	1	0	12
12	0	1	0	1	1	1	3	2	0	1	1	2	1	0	2	0	0	1	1	2	1	1	3	2	11
13	2	2	1	2	1	1	2	3	1	1	1	3	2	0	1	2	2	2	1	3	2	1	2	3	16
14	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	2	3
15	1	0	1	1	0	1	1	1	0	0	1	1	0	0	0	0	1	0	1	1	0	1	1	1	6
16	1	1	1	0	0	1	2	0	0	1	2	2	1	0	0	0	1	1	2	2	1	1	2	0	10
17	3	2	2	0	0	5	4	2	2	3	3	2	0	4	3	0	3	3	3	2	0	5	4	2	22
18	0	0	0	1	2	4	3	4	0	0	0	2	3	3	2	2	0	0	0	2	3	4	3	4	16
19	2	2	1	2	1	2	3	3	2	2	2	2	1	2	1	1	2	2	2	2	1	2	3	3	17
20	3	2	0	0	1	2	3	3	3	1	0	2	2	1	2	2	3	2	0	2	2	2	3	3	17
21	1	1	1	1	1	0	2	2	0	2	2	1	1	0	0	0	1	2	2	1	1	0	2	2	11
22	2	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	2	1	1	1	0	0	0	1	6
23	1	0	1	0	0	1	1	2	1	0	0	1	0	0	0	0	1	0	1	1	0	1	1	2	7
24	2	3	1	1	1	1	2	1	1	3	3	2	1	0	0	0	2	3	3	2	1	1	2	1	15
25	0	0	0	0	1	1	2	3	0	0	1	1	1	0	0	1	0	0	1	1	1	1	2	3	9
26	3	3	3	2	1	2	2	1	2	2	2	3	3	1	1	0	3	3	3	3	3	2	2	1	20
27	1	3	1	0	0	1	3	3	0	2	2	2	1	0	1	0	1	3	2	2	1	1	3	3	16
28	2	2	1	2	2	3	4	3	1	1	2	3	2	3	4	2	2	2	2	3	2	3	4	3	21
29	4	2	2	1	1	2	3	2	3	2	2	2	1	1	1	0	4	2	2	2	1	2	3	2	18
30	2	3	3	3	2	4	3	3	1	2	3	4	3	3	2	3	2	3	3	4	3	4	3	3	25

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1966

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 667 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1966

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	+1 min.
D	+1½
Z	-1
T	+2½

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
H	-4
D	+1½
Z	0
T	-2

3. Order of Traces, from top to bottom:

Sensitive Magnetograms

H trace and baseline
T trace
D baseline and trace
Z baseline and trace

Insensitive Magnetograms

D trace and baseline
T trace
H baseline and trace
Z baseline and trace

4. Sense of trace

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

H baseline values increase with increasing temperature.

Z baseline values decrease with increasing temperature.

Temperature coefficients:

H : 4.95 $\gamma/^\circ\text{C}$ Jan 01 - Aug 03

3.75 $\gamma/^\circ\text{C}$ Aug 04 - Dec 31

Z : 1.8 $\gamma/^\circ\text{C}$ Jan 01 - Feb 28

1.2 $\gamma/^\circ\text{C}$ Mar 01 - Dec 31

<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Aug 03	0.51 $^\circ\text{C}/\text{mm}$	9.87 $^\circ\text{C}$
Aug 04 - Dec 31	0.52 $^\circ\text{C}/\text{mm}$	12.46 $^\circ\text{C}$

6. Scale Values, Sensitive magnetograms

H	D	Z
4.13 γ/mm Jan 01 - May 31	0.92 $^\circ/\text{mm}$ Jan 01 - Dec 31	4.08 γ/mm Jan 01 - Jan 31
4.15 γ/mm Jun 01 - Aug 03		4.07 γ/mm Feb 01 - Apr 30
4.23 γ/mm Aug 04 - Aug 31		4.08 γ/mm May 01 - May 31
4.29 γ/mm Sep 01 - Oct 31		4.09 γ/mm Jun 01 - Aug 31
4.30 γ/mm Nov 01 - Nov 30		4.10 γ/mm Sep 01 - Oct 31
4.28 γ/mm Dec 01 - Dec 31		4.11 γ/mm Nov 01 - Nov 30
		4.12 γ/mm Dec 01 - Dec 31

7. Scale of reproduction

To give scale a rule of 50 mm. length is reproduced on each magnetogram.

8. Baseline Values

Sensitive Magnetograms

H baselines

Jan 01 - Aug 03	22,971 y
Aug 04 - Aug 05	22,922 y
Aug 06 - Dec 31	22.925 y

Note: H baselines are at 0°C. Chart baselines must be calculated using temperature coefficients.

D baselines

Jan 01 - Aug 03	17° 20.1'
Aug 04 - Dec 31	17° 21.8'

Z baselines

	At 0° C	Chart baselines
Jan 01 - Jan 31		35,975 y
Feb 01 - Feb 28		35,976 y
Mar 01 - Aug 03	35,967 y	
Aug 04 - Oct 08, 0100 z		35,863 y
Oct 08 - Dec 31		35,860 y

Note: In periods when chart baselines are quoted the temperature correction varies by less than 1 y.

Lower limit K₉: 500y

Scale values: H, 4.28y/mm; D, 6.24y/mm

	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	2	1	1	3	2	2	3	3	2	1	1	3	1	3	3	3	2	1	1	3	2	18
2	1	1	1	1	0	1	1	1	1	1	1	2	0	1	1	0	1	1	1	2	0	1	1	1	8
3	0	0	0	1	0	1	1	2	0	0	1	1	1	0	1	0	0	0	1	1	1	1	1	2	7
4	1	1	4	3	2	2	4	3	1	2	4	3	3	2	2	3	1	2	4	3	3	2	4	3	22
5	3	3	2	1	0	3	3	3	3	2	2	2	1	1	2	1	3	3	2	2	1	3	3	3	20
6	3	1	1	0	0	1	2	1	2	1	1	1	1	1	0	0	3	1	1	1	1	1	2	1	11
7	1	1	0	0	0	1	2	1	0	0	0	1	0	0	0	0	1	1	0	1	0	1	2	1	7
8	1	1	0	0	0	1	3	3	0	0	0	0	0	0	1	1	1	1	0	0	0	1	3	3	9
9	1	0	0	0	0	1	2	2	0	0	1	0	1	1	1	0	1	0	1	0	1	1	2	2	8
10	1	0	0	1	0	1	1	2	0	0	2	2	0	0	0	0	1	0	2	2	0	1	1	2	9
11	2	1	0	0	0	3	3	1	0	0	1	0	1	0	0	0	2	1	1	0	1	3	3	1	12
12	1	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	1	0	0	0	1	1	1	1	5
13	4	5	3	1	3	5	2	3	3	4	4	4	3	3	1	1	4	5	4	4	3	5	2	3	30
14	3	3	3	1	5	5	4	5	1	3	1	2	4	5	3	5	3	3	3	2	5	5	4	5	30
15	3	3	2	2	2	3	2	1	4	2	1	3	2	2	1	0	4	3	2	3	2	3	2	1	20
16	2	1	1	1	0	3	3	2	2	1	0	1	2	2	1	0	2	1	1	1	2	3	3	2	15
17	2	1	0	0	1	2	2	4	1	1	0	2	1	0	0	2	2	1	0	2	1	2	2	4	14
18	2	2	1	0	1	1	2	2	0	1	2	2	1	1	0	0	2	2	2	2	1	1	2	2	14
19	1	0	1	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	1	1	5
20	0	1	1	0	1	2	3	3	0	0	1	2	2	2	2	1	0	1	1	2	2	2	3	3	14
21	2	2	1	1	1	2	3	3	1	1	2	2	1	1	1	1	2	2	2	2	1	2	3	3	17
22	2	3	1	2	3	3	2	3	1	2	2	3	2	2	2	3	2	3	2	3	3	3	2	3	21
23	2	0	1	1	1	2	4	3	2	0	2	1	2	1	2	1	2	0	2	1	2	2	4	3	16
24	2	1	3	1	1	2	2	2	2	2	3	3	2	0	0	1	2	4	3	3	2	2	2	2	20
25	2	1	3	3	2	2	3	4	2	2	2	3	2	1	2	2	2	2	3	3	2	2	3	4	21
26	3	2	3	3	3	4	3	4	3	1	3	3	3	3	3	4	3	2	3	3	3	4	3	4	25
27	4	3	2	3	4	3	3	4	4	3	4	3	3	1	2	3	4	3	4	3	4	3	3	4	28
28	2	1	2	2	3	3	2	3	2	0	2	2	3	2	2	3	2	1	2	2	3	3	2	3	18
29	2	1	2	1	1	2	1	1	0	0	1	1	1	0	0	0	2	1	2	1	1	2	1	1	11
30	1	1	1	1	1	1	1	2	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	2	9
31	2	0	0	0	0	0	1	2	0	0	0	2	2	0	0	0	2	0	0	2	2	0	1	2	9