BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1964

FROM ARGENTINE ISLANDS A.975

LAT.	-65° 15'
LONG.	295° 44'
GEOMAGNETIC LAT.	-55.8°
GEOMAGNETIC LONG.	3.3°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

ARGENTINE ISLANDS A.973

EXPLANATORY NOTES 1964

1. Instruments

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

2. Time

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

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

Sensitive Magnetograms

Trace	Correction		
	Jan 1-Jun 30	Jul 6-Aug 5	Aug 6-Dec 31
H	+3 mins.	+1 mins.	+1 mins.
D	-1	-1	+2
Z	+1	0	+1
T	+4	+3	+3

Corrections July 1 to July 6 variable due to several baseline changes. They can be deduced by inspection of the relative positions of the traces with the appropriate 2400Z time mark.

Insensitive Magnetograms

Trace	Correction	
	Jan 1-Jun 10	Jun 11-Dec 31
H	-4 mins.	-4 mins.
D	+1	0
Z	-1	+1
T	-2	-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 (when baseline double, upper line used)

H baseline

T trace

H 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 :	4.7 γ/°C	Jan 1–Jun 30	Z :	0.0 γ/°C	Jan 1–Jun 30
	4.15	Jul 1–Dec 31		1.2	Jul 1–Dec 31

T trace	Scale Value	Baseline
Jan 1–Jun 30	0.55 °C/mm	11.3 °C
Jul 1–Aug 12	0.53	0.3
Aug 13–Dec 31	0.53	10.8

6. Scale Values, Sensitive magnetograms

H	4.30γ/mm Jan 1–Aug 12, 4.21γ/mm Aug 13–Dec 31
D	0.92'/mm All year
Z	4.20γ/mm Jan 1–Jun 30, 4.10γ/mm Jul 1–Dec 31

7. Baseline separations, to give scale

Sensitive magnetograms.

Dates	H-D	D-Z
Jan 1–Feb 19	44.0	153.9
Feb 20–Feb 21	43.8 to 43.1	"
Feb 22–Apr 16	43.0	"
Apr 17–May 2	42.6	"
May 3–Jun 24	42.3	"
Jun 25–Jun 30	42.7	"
Jul 1–Aug 5	42.0	146.5
Aug 6–Aug 11	24.2	164.1
Aug 12, part of	21.8	"
Aug 12–Oct 31	24.2	"
Nov 1–Nov 18	23.8	164.4
Nov 19–Nov 28	23.4	164.7
Nov 29–Dec 31	23.0	"

All measured in mm, with probable error of ± 0.2 mm

Insensitive magnetograms /

Insensitive magnetograms

	D-H	H-Z
Jan 1–Apr 30	63.0 mm ±0.2	114.0 mm ±0.3
May 1–May 18	63.4 mm ±0.2	113.6 mm ±0.3
May 18–Jun 10	63.4 mm ±0.2	113.3 mm ±0.3
Jun 11–Dec 31	73.7 mm ±0.3	113.3 mm ±0.3

8. Baseline Values

Sensitive Magnetograms

H baselines		D baselines		Z baselines	
Jan 1–7	23,098 γ	Jan 1–Feb 29	17° 37.5'	Jan 1–31	-36,160γ
Jan 8–11	97	Mar 1– 31	37.6	Feb 1–Apr 30	163
12–15	96	Apr 1–Jun 30	37.8	May 1–31	168
16–20	95	Jul 1–Aug 5	41.9	Jun 1–30	170
21–24	94	Aug 6–Dec 31	19.1	Jul 1–Aug 7	064
25–28	93			Aug 8–Dec 31	073
Jan 29–Feb 1	92				
Feb 2– 5	91				
6–10	90				
11–15	89				
16–19	88				
20–23	87				
24–29	86				
Mar 1–Jun 30	85				
Jul 1–Aug 11	12				
Aug 12–Nov 30	42				
Dec 1–Dec 31	41				

Note: H and Z baselines are at 0°C
Insensitive magnetogram baselines and scale values are calculated where required, by comparison with the sensitive magnetograms.

ARGENTINE ISLANDS A.973 JANUARY 1964

Lower limit KS: 500γ Scale values: H,4.30γ/mm; D,6.24 γ/mm.

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

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	Jan 1-Jun 10	Jun 11-Dec 31
H	-4 mins.	-4 mins.
D	+1	0
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3. **Order of Traces**, from top to bottom:

Sensitive Magnetograms

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T trace

D baseline and trace

Z baseline and trace

Insensitive Magnetograms

D trace and baseline (when baseline double, upper line used)

H baseline

T trace

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11-15	89				
16-19	88				
20-23	87				
24-29	86				
Mar 1-Jun 30	85				
Jul 1-Aug 11	12				
Aug 12-Nov 30	42				
Dec 1-Dec 31	41				

Note: H and Z baselines are at 0°C
Insensitive magnetogram baselines and scale values are calculated where required, by comparison with the sensitive magnetograms.

ARGENTINE ISLANDS A.973 FEBRUARY 1964

Lower limit K9: 500γ Scale values: H,4.30γ/mm; D,6.24γ/mm.

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

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Mar 1-Jun 30	85				
Jul 1-Aug 11	12				
Aug 12-Nov 30	42				
Dec 1-Dec 31	41				

Note: H and Z baselines are at 0°C
Insensitive magnetogram baselines and scale values are calculated where required, by comparison with the sensitive magnetograms.

ARGENTINE ISLANDS A.973 MARCH 1964

Lower limit K9: 500γ Scale values: H, 4.30γ/mm; D, 6.24γ/mm.

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1964

FROM ARGENTINE ISLANDS A.973

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

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

ARGENTINE ISLANDS A.973

EXPLANATORY NOTES 1964

1. Instruments

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

2. Time

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

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

Sensitive Magnetograms

Trace	Correction		
	Jan 1-Jun 30	Jul 6-Aug 5	Aug 6-Dec 31
H	+3 mins.	+1 mins.	+1 mins.
D	-1	-1	+2
Z	+1	0	+1
T	+4	+3	+3

Corrections July 1 to July 6 variable due to several baseline changes. They can be deduced by inspection of the relative positions of the traces with the appropriate 2400Z time mark.

Insensitive Magnetograms

Trace	Correction	
	Jan 1-Jun 10	Jun 11-Dec 31
H	-4 mins.	-4 mins.
D	+1	0
Z	-1	+1
T	-2	-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 (when baseline double, upper line used)

H baseline

T trace

H trace

Z baseline and trace

4. /

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 :	4.7 γ/°C	Jan 1-Jun 30	Z :	0.0 γ/°C	Jan 1-Jun 30
	4.15	Jul 1-Dec 31		1.2	Jul 1-Dec 31

T trace	Scale Value	Baseline
Jan 1-Jun 30	0.55 °C/mm	11.3 °C
Jul 1-Aug 12	0.53	0.3
Aug 13-Dec 31	0.53	10.8

6. Scale Values, Sensitive magnetograms

H	4.30γ/mm Jan 1-Aug 12, 4.21γ/mm Aug 13-Dec 31
D	0.92'/mm All year
Z	4.20γ/mm Jan 1-Jun 30, 4.10γ/mm Jul 1-Dec 31

7. Baseline separations, to give scale

Sensitive magnetograms.

Dates	H-D	D-Z
Jan 1-Feb 19	44.0	153.9
Feb 20-Feb 21	43.8 to 43.1	"
Feb 22-Apr 16	43.0	"
Apr 17-May 2	42.6	"
May 3-Jun 24	42.3	"
Jun 25-Jun 30	42.7	"
Jul 1-Aug 5	42.0	146.5
Aug 6-Aug 11	24.2	164.1
Aug 12, part of	21.8	"
Aug 12-Oct 31	24.2	"
Nov 1-Nov 18	23.8	164.4
Nov 19-Nov 28	23.4	164.7
Nov 29-Dec 31	23.0	"

All measured in mm, with probable error of ± 0.2 mm

Insensitive magnetograms /

Insensitive magnetograms

	D-H	H-Z
Jan 1-Apr 30	63.0 mm ±0.2	114.0 mm ±0.3
May 1-May 18	63.4 mm ±0.2	113.6 mm ±0.3
May 18-Jun 10	63.4 mm ±0.2	113.3 mm ±0.3
Jun 11-Dec 31	73.7 mm ±0.3	113.3 mm ±0.3

8. Baseline Values

Sensitive Magnetograms

H baselines		D baselines		Z baselines	
Jan 1-7	23,098 γ	Jan 1-Feb 29	17° 37.5'	Jan 1-31	-36,160γ
Jan 8-11	97	Mar 1- 31	37.6	Feb 1-Apr 30	163
12-15	96	Apr 1-Jun 30	37.8	May 1-31	168
16-20	95	Jul 1-Aug 5	41.9	Jun 1-30	170
21-24	94	Aug 6-Dec 31	19.1	Jul 1-Aug 7	064
25-28	93			Aug 8-Dec 31	073
Jan 29-Feb 1	92				
Feb 2- 5	91				
6-10	90				
11-15	89				
16-19	88				
20-23	87				
24-29	86				
Mar 1-Jun 30	85				
Jul 1-Aug 11	12				
Aug 12-Nov 30	42				
Dec 1-Dec 31	41				

Note: H and Z baselines are at 0°C
Insensitive magnetogram baselines and scale values are calculated where required, by comparison with the sensitive magnetograms.

ARGENTINE ISLANDS A.973 APRIL 1964

Lower limit K9: 500γ Scale values: H,4.30γ/mm; D,6.24γ/mm.

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1964

FROM ARGENTINE ISLANDS A.973

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

ORIGINAL RECORDS HELD AT:-

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

HEAD OFFICE:-

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

ARGENTINE ISLANDS A.973

EXPLANATORY NOTES 1964

1. Instruments

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

2. Time

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

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

Sensitive Magnetograms

Trace	Correction		
	Jan 1–Jun 30	Jul 6–Aug 5	Aug 6–Dec 31
H	+3 mins.	+1 mins.	+1 mins.
D	-1	-1	+2
Z	+1	0	+1
T	-4	+3	+3

Corrections Jul 1 to July 6 variable due to several baseline changes. They can be deduced by inspection of the relative positions of the traces with the appropriate 2400Z time mark.

Insensitive Magnetograms

Trace	Correction	
	Jan 1–Jun 10	Jun 11–Dec 31
H	-4 mins.	-4 mins.
D	+1	0
Z	-1	+1
T	-2	-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 (when baseline double, upper line used)

H baseline

T trace

H 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 :	4.7 γ/°C	Jan 1-Jun 30	Z :	0.0 γ/°C	Jan 1-Jun 30
	4.15	Jul 1-Dec 31		1.2	Jul 1-Dec 31

T trace	Scale Value	Baseline
Jan 1-Jun 30	0.55 °C/mm	11.3 °C
Jul 1-Aug 12	0.53	0.3
Aug 13-Dec 31	0.53	10.8

6. Scale Values, Sensitive magnetograms

H	4.30γ/mm Jan 1-Aug 12, 4.21γ/mm Aug 13-Dec 31
D	0.92'/mm All year
Z	4.20γ/mm Jan 1-Jun 30, 4.10γ/mm Jul 1-Dec 31

7. Baseline separations, to give scale

Sensitive magnetograms.

Dates	H-D	D-Z
Jan 1-Feb 19	44.0	153.9
Feb 20-Feb 21	43.8 to 43.1	"
Feb 22-Apr 16	43.0	"
Apr 17-May 2	42.6	"
May 3-Jun 24	42.3	"
Jun 25-Jun 30	42.7	"
Jul 1-Aug 5	42.0	146.5
Aug 6-Aug 11	24.2	164.1
Aug 12, part of	21.8	"
Aug 12-Oct 31	24.2	"
Nov 1-Nov 18	23.8	164.4
Nov 19-Nov 28	23.4	164.7
Nov 29-Dec 31	23.0	"

All measured in mm, with probable error of ± 0.2 mm

Insensitive magnetograms /

Insensitive magnetograms

	D-H	H-Z
Jan 1-Apr 30	63.0 mm ±0.2	114.0 mm ±0.3
May 1-May 18	63.4 mm ±0.2	113.6 mm ±0.3
May 18-Jun 10	63.4 mm ±0.2	113.3 mm ±0.3
Jun 11-Dec 31	73.7 mm ±0.3	113.3 mm ±0.3

8. Baseline Values

Sensitive Magnetograms

H baselines		D baselines		Z baselines	
Jan 1-7	23,098 γ	Jan 1-Feb 29	17° 37.5'	Jan 1-31	-36,160γ
Jan 8-11	97	Mar 1- 31	37.6	Feb 1-Apr 30	163
12-15	96	Apr 1-Jun 30	37.8	May 1-31	168
16-20	95	Jul 1-Aug 5	41.9	Jun 1-30	170
21-24	94	Aug 6-Dec 31	19.1	Jul 1-Aug 7	064
25-28	93			Aug 8-Dec 31	073
Jan 29-Feb 1	92				
Feb 2- 5	91				
6-10	90				
11-15	89				
16-19	88				
20-23	87				
24-29	86				
Mar 1-Jun 30	85				
Jul 1-Aug 11	12				
Aug 12-Nov 30	42				
Dec 1-Dec 31	41				

Note: H and Z baselines are at 0°C
Insensitive magnetogram baselines and scale values are calculated where required, by comparison with the sensitive magnetograms.

ARGENTINE ISLANDS 1973 — MAY 1964

Lower limit E9: 500v — Scale values: H,1.30v/mm; D,6.24v/mm.

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1964

FROM ARGENTINE ISLANDS A.973

LAT.	-65° 15'
LONG.	295° 44'
GEOMAGNETIC LAT.	-55.8°
GEOMAGNETIC LONG.	3.5°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

ARGENTINE ISLANDS A.973

EXPLANATORY NOTES 1964

1. Instruments

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

2. Time

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

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

Sensitive Magnetograms

Trace	Correction		
	Jan 1-Jun 30	Jul 6-Aug 5	Aug 6-Dec 31
H	+3 mins.	+1 mins.	+1 mins.
D	-1	-1	+2
Z	+1	0	+1
T	+4	+3	+3

Corrections July 1 to July 6 variable due to several baseline changes. They can be deduced by inspection of the relative positions of the traces with the appropriate 2400Z time mark.

Insensitive Magnetograms

Trace	Correction	
	Jan 1-Jun 10	Jun 11-Dec 31
H	-4 mins.	-4 mins.
D	+1	0
Z	-1	+1
T	-2	-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 (when baseline double, upper line used)

H baseline

T trace

H trace

Z baseline and trace

4. /

Insensitive magnetograms

	D-H	H-Z
Jan 1-Apr 30	63.0 mm ±0.2	114.0 mm ±0.3
May 1-May 18	63.4 mm ±0.2	113.6 mm ±0.3
May 18-Jun 10	63.4 mm ±0.2	113.3 mm ±0.3
Jun 11-Dec 31	73.7 mm ±0.3	113.3 mm ±0.3

8. Baseline Values

Sensitive Magnetograms

H baselines		D baselines		Z baselines	
Jan 1-7	23,098 γ	Jan 1-Feb 29	17° 37.5'	Jan 1-31	-36,160γ
Jan 8-11	97	Mar 1- 31	37.6	Feb 1-Apr 30	163
12-15	96	Apr 1-Jun 30	37.8	May 1-31	168
16-20	95	Jul 1-Aug 5	41.9	Jun 1-30	170
21-24	94	Aug 6-Dec 31	19.1	Jul 1-Aug 7	064
25-28	93			Aug 8-Dec 31	073
Jan 29-Feb 1	92				
Feb 2- 5	91				
6-10	90				
11-15	89				
16-19	88				
20-23	87				
24-29	86				
Mar 1-Jun 30	85				
Jul 1-Aug 11	12				
Aug 12-Nov 30	42				
Dec 1-Dec 31	41				

Note: H and Z baselines are at 0-0
Insensitive magnetogram baselines and scale values are calculated where required, by comparison with the sensitive magnetograms.

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 : 4.7 γ/°C Jan 1-Jun 30 Z : 0.8 γ/°C Jan 1-Jun 30
4.15 Jul 1-Dec 31 1.2 Jul 1-Dec 31

T trace	Scale Value	Baseline
Jan 1-Jun 30	0.55 °C/mm	11.3 °C
Jul 1-Aug 12	0.53	0.3
Aug 13-Dec 31	0.53	10.8

6. Scale Values, Sensitive magnetograms

H 4.30γ mm Jan 1-Aug 12, 4.2γ/mm Aug 13-Dec 31
D 0.92'/mm All year
Z 4.20γ/mm Jan 1-Jun 30, 4.10γ/mm Jul 1-Dec 31

7. Baseline separations, to give scale

Sensitive magnetograms.

Dates	H-D	D-Z
Jan 1-Feb 19	42.0	153.9
Feb 20-Feb 21	43.8 to 43.1	"
Feb 22-Apr 16	43.0	"
Apr 17-May 2	42.6	"
May 3-Jun 24	42.3	"
Jun 25-Jun 30	42.7	"
Jul 1-Aug 5	42.0	146.5
Aug 6-Aug 11	24.2	164.1
Aug 12, part of	24.8	"
Aug 12-Oct 31	24.2	"
Nov 1-Nov 18	23.8	164.1
Nov 19-Nov 28	23.1	164.7
Nov 29-Dec 31	23.0	"

All measured in mm, with probable error of ± 0.2 mm

Insensitive magnetograms /

ARGENTINE ISLANDS A.973 JUNE 1964

Lower limit K9: 500γ Scale values: H,4.30γ/mm; D,6.24γ/mm.

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

BRITISH ANTARCTIC SURVEY

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MAGNETIC RECORDS FOR 1964

FROM ARGENTINE ISLANDS A.973

LAT.	-65° 15'
LONG.	295° 44'
GEOMAGNETIC LAT.	-53.8°
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ARGENTINE ISLANDS A.973

EXPLANATORY NOTES 1964

1. Instruments

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

2. Time

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

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

Sensitive Magnetograms

Trace	Correction		
	Jan 1-Jun 30	Jul 6-Aug 5	Aug 6-Dec 31
H	+3 mins.	+1 mins.	+1 mins.
D	-1	-1	+2
Z	+1	0	+1
T	+4	+3	+3

Corrections July 1 to July 6 variable due to several baseline changes. They can be deduced by inspection of the relative positions of the traces with the appropriate 2400Z time mark.

Insensitive Magnetograms

Trace	Correction	
	Jan 1-Jun 10	Jun 11-Dec 31
H	-4 mins.	-4 mins.
D	+1	0
Z	-1	+1
T	-2	-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 (when baseline double, upper line used)

H baseline

T trace

H trace

Z baseline and trace

4. /

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 : 4.7 γ/°C	Jan 1-Jun 30	Z : 0.0 γ/°C	Jan 1-Jun 30
4.15	Jul 1-Dec 31	1.2	Jul 1-Dec 31

T trace	Scale Value	Baseline
Jan 1-Jun 30	0.55 °C/mm	11.3 °C
Jul 1-Aug 12	0.53	0.3
Aug 13-Dec 31	0.53	10.8

6. Scale Values, Sensitive magnetograms

H	4.30γ/mm Jan 1-Aug 12, 4.21γ/mm Aug 13-Dec 31
D	0.92'/mm All year
Z	4.20γ/mm Jan 1-Jun 30, 4.10γ/mm Jul 1-Dec 31

7. Baseline separations, to give scale

Sensitive magnetograms.

Dates	H-D	D-Z
Jan 1-Feb 19	44.0	153.9
Feb 20-Feb 21	43.8 to 43.1	"
Feb 22-Apr 16	43.0	"
Apr 17-May 2	42.6	"
May 3-Jun 24	42.3	"
Jun 25-Jun 30	42.7	"
Jul 1-Aug 5	42.0	146.5
Aug 6-Aug 11	24.2	164.1
Aug 12, part of	21.8	"
Aug 12-Oct 31	24.2	"
Nov 1-Nov 18	23.8	164.4
Nov 19-Nov 28	23.4	164.7
Nov 29-Dec 31	23.0	"

All measured in mm, with probable error of ± 0.2 mm

Insensitive magnetograms /

Insensitive magnetograms

	D-H	H-Z
Jan 1-Apr 30	63.0 mm ±0.2	114.0 mm ±0.3
May 1-May 18	63.4 mm ±0.2	113.6 mm ±0.3
May 18-Jun 10	63.4 mm ±0.2	113.3 mm ±0.3
Jun 11-Dec 31	73.7 mm ±0.3	113.3 mm ±0.3

8. Baseline Values

Sensitive Magnetograms

H baselines		D baselines		Z baselines	
Jan 1-7	23,098 γ	Jan 1-Feb 29	17° 37.5'	Jan 1-31	-36,160γ
Jan 8-11	97	Mar 1- 31	37.6	Feb 1-Apr 30	163
12-15	96	Apr 1-Jun 30	37.8	May 1-31	168
16-20	95	Jul 1-Aug 5	41.9	Jun 1-30	170
21-24	94	Aug 6-Dec 31	19.1	Jul 1-Aug 7	064
25-28	93			Aug 8-Dec 31	073
Jan 29-Feb 1	92				
Feb 2- 5	91				
6-10	90				
11-15	89				
16-19	88				
20-23	87				
24-29	86				
Mar 1-Jun 30	85				
Jul 1-Aug 11	12				
Aug 12-Nov 30	42				
Dec 1-Dec 31	41				

Note: H and Z baselines are at 0°C
Insensitive magnetogram baselines and scale values are calculated where required, by comparison with the sensitive magnetograms.

ARGENTINE ISLANDS A.973 JULY 1964

Lower limit K9: 500γ Scale values: H, 4.30γ/mm; D, 6.24γ/mm.

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

BRITISH ANTARCTIC SURVEY

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MAGNETIC RECORDS FOR 1964

FROM ARGENTINE ISLANDS A.973

LAT.	-65° 15'
LONG.	295° 44'
GEOMAGNETIC LAT.	-53.8°
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ARGENTINE ISLANDS A.973

EXPLANATORY NOTES 1964

1. Instruments

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

2. Time

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

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

Sensitive Magnetograms

Trace	Correction		
	Jan 1-Jun 30	Jul 6-Aug 5	Aug 6-Dec 31
H	+3 mins.	+1 mins.	+1 mins.
D	-1	-1	+2
Z	+1	0	+1
T	+4	+3	+3

Corrections July 1 to July 6 variable due to several baseline changes. They can be deduced by inspection of the relative positions of the traces with the appropriate 2400Z time mark.

Insensitive Magnetograms

Trace	Correction	
	Jan 1-Jun 10	Jun 11-Dec 31
H	-4 mins.	-4 mins.
D	+1	0
Z	-1	+1
T	-2	-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 (when baseline double, upper line used)

H baseline

T trace

H trace

Z baseline and trace

4. /

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 :	4.7 γ/°C	Jan 1-Jun 30	Z :	0.0 γ/°C	Jan 1-Jun 30
	4.15	Jul 1-Dec 31		1.2	Jul 1-Dec 31

T trace	Scale Value	Baseline
Jan 1-Jun 30	0.55 °C/mm	11.3 °C
Jul 1-Aug 12	0.53	0.3
Aug 13-Dec 31	0.53	10.8

6. Scale Values, Sensitive magnetograms

H	4.30γ/mm Jan 1-Aug 12, 4.21γ/mm Aug 13-Dec 31
D	0.92'/mm All year
Z	4.20γ/mm Jan 1-Jun 30, 4.10γ/mm Jul 1-Dec 31

7. Baseline separations, to give scale

Sensitive magnetograms.

Dates	H-D	D-Z
Jan 1-Feb 19	44.0	153.9
Feb 20-Feb 21	43.8 to 43.1	"
Feb 22-Apr 16	43.0	"
Apr 17-May 2	42.6	"
May 3-Jun 24	42.3	"
Jun 25-Jun 30	42.7	"
Jul 1-Aug 5	42.0	146.5
Aug 6-Aug 11	24.2	164.1
Aug 12, part of	21.8	"
Aug 12-Oct 31	24.2	"
Nov 1-Nov 18	23.8	164.4
Nov 19-Nov 28	23.4	164.7
Nov 29-Dec 31	23.0	"

All measured in mm, with probable error of ± 0.2 mm

Insensitive magnetograms /

Insensitive magnetograms

	D-H	H-Z
Jan 1-Apr 30	63.0 mm ±0.2	114.0 mm ±0.3
May 1-May 18	63.4 mm ±0.2	113.6 mm ±0.3
May 18-Jun 10	63.4 mm ±0.2	113.3 mm ±0.3
Jun 11-Dec 31	73.7 mm ±0.3	113.3 mm ±0.3

8. Baseline Values

Sensitive Magnetograms

H baselines		D baselines		Z baselines	
Jan 1-7	23,098 γ	Jan 1-Feb 29	17° 37.5'	Jan 1-31	-36,160γ
Jan 8-11	97	Mar 1- 31	37.6	Feb 1-Apr 30	163
12-15	96	Apr 1-Jun 30	37.8	May 1-31	168
16-20	95	Jul 1-Aug 5	41.9	Jun 1-30	170
21-24	94	Aug 6-Dec 31	19.1	Jul 1-Aug 7	064
25-28	93			Aug 8-Dec 31	073
Jan 29-Feb 1	92				
Feb 2- 5	91				
6-10	90				
11-15	89				
16-19	88				
20-23	87				
24-29	86				
Mar 1-Jun 30	85				
Jul 1-Aug 11	12				
Aug 12-Nov 30	42				
Dec 1-Dec 31	41				

Note: H and Z baselines are at 0°C
Insensitive magnetogram baselines and scale values are calculated where required, by comparison with the sensitive magnetograms.

ARGENTINE ISLANDS A.973 AUGUST 1964

Lower limit K9: 500γ

Scale values: H,4.30γ/mm; D,6.24γ/mm.
after Aug. 12th H,4.21γ/mm

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1964

FROM ARGENTINE ISLANDS A.973

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

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

ARGENTINE ISLANDS A.973

EXPLANATORY NOTES 1964

1. Instruments

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

2. Time

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

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

Sensitive Magnetograms

Trace	Correction		
	Jan 1-Jun 30	Jul 6-Aug 5	Aug 6-Dec 31
H	+3 mins.	+1 mins.	+1 mins.
D	-1	-1	+2
Z	+1	0	+1
T	+4	+3	+3

Corrections July 1 to July 6 variable due to several baseline changes. They can be deduced by inspection of the relative positions of the traces with the appropriate 2400Z time mark.

Insensitive Magnetograms

Trace	Correction	
	Jan 1-Jun 10	Jun 11-Dec 31
H	-4 mins.	-4 mins.
D	+1	0
Z	-1	+1
T	-2	-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 (when baseline double, upper line used)

H baseline

T trace

H trace

Z baseline and trace

4. /

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 :	4.7 γ/°C	Jan 1-Jun 30	Z :	0.0 γ/°C	Jan 1-Jun 30
	4.15	Jul 1-Dec 31		1.2	Jul 1-Dec 31

T trace	Scale Value	Baseline
Jan 1-Jun 30	0.55 °C/mm	11.3 °C
Jul 1-Aug 12	0.53	0.3
Aug 13-Dec 31	0.53	10.8

6. **Scale Values**, Sensitive magnetograms

H	4.30γ/mm Jan 1-Aug 12, 4.21γ/mm Aug 13-Dec 31
D	0.92'/mm All year
Z	4.20γ/mm Jan 1-Jun 30, 4.10γ/mm Jul 1-Dec 31

7. **Baseline separations**, to give scale

Sensitive magnetograms.

Dates	H-D	D-Z
Jan 1-Feb 19	44.0	153.9
Feb 20-Feb 21	43.8 to 43.1	"
Feb 22-Apr 16	43.0	"
Apr 17-May 2	42.6	"
May 3-Jun 24	42.3	"
Jun 25-Jun 30	42.7	"
Jul 1-Aug 5	42.0	146.5
Aug 6-Aug 11	24.2	164.1
Aug 12, part of	21.8	"
Aug 12-Oct 31	24.2	"
Nov 1-Nov 18	23.8	164.4
Nov 19-Nov 28	23.4	164.7
Nov 29-Dec 31	23.0	"

All measured in mm, with probable error of ± 0.2 mm

Insensitive magnetograms /

Insensitive magnetograms

	D-H	H-Z
Jan 1-Apr 30	63.0 mm ±0.2	114.0 mm ±0.3
May 1-May 18	63.4 mm ±0.2	113.6 mm ±0.3
May 18-Jun 10	63.4 mm ±0.2	113.3 mm ±0.3
Jun 11-Dec 31	73.7 mm ±0.3	113.3 mm ±0.3

8. **Baseline Values**

Sensitive Magnetograms

H baselines		D baselines		Z baselines	
Jan 1-7	23,098 γ	Jan 1-Feb 29	17° 37.5'	Jan 1-31	-36,160γ
Jan 8-11	97	Mar 1- 31	37.6	Feb 1-Apr 30	163
12-15	96	Apr 1-Jun 30	37.8	May 1-31	168
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21-24	94	Aug 6-Dec 31	19.1	Jul 1-Aug 7	064
25-28	93			Aug 8-Dec 31	073
Jan 29-Feb 1	92				
Feb 2- 5	91				
6-10	90				
11-15	89				
16-19	88				
20-23	87				
24-29	86				
Mar 1-Jun 30	85				
Jul 1-Aug 11	12				
Aug 12-Nov 30	42				
Dec 1-Dec 31	41				

Note: H and Z baselines are at 0°C
Insensitive magnetogram baselines and scale values are calculated where required, by comparison with the sensitive magnetograms.

ARGENTINE ISLANDS A.973 SEPTEMBER 1964

Lower limit K9:-500y Scale values: H,4.21y/mm; D,6.24y/mm.

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1964

FROM ARGENTINE ISLANDS A.973

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

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ARGENTINE ISLANDS A.973

EXPLANATORY NOTES 1964

1. Instruments

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

2. Time

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

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

Sensitive Magnetograms

Trace	Correction		
	Jan 1-Jun 30	Jul 6-Aug 5	Aug 6-Dec 31
H	+3 mins.	+1 mins.	+1 mins.
D	-1	-1	+2
Z	+1	0	+1
T	+4	+3	+3

Corrections July 1 to July 6 variable due to several baseline changes. They can be deduced by inspection of the relative positions of the traces with the appropriate 2400Z time mark.

Insensitive Magnetograms

Trace	Correction	
	Jan 1-Jun 10	Jun 11-Dec 31
H	-4 mins.	-4 mins.
D	+1	0
Z	-1	+1
T	-2	-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 (when baseline double, upper line used)

H baseline

T trace

H trace

Z baseline and trace

4. /

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 : 4.7 γ/°C Jan 1-Jun 30 Z : 0.0 γ/°C Jan 1-Jun 30
4.15 Jul 1-Dec 31 1.2 Jul 1-Dec 31

T trace	Scale Value	Baseline
Jan 1-Jun 30	0.55 °C/mm	11.3 °C
Jul 1-Aug 12	0.53	0.3
Aug 13-Dec 31	0.53	10.8

6. Scale Values, Sensitive magnetograms

H	4.30γ/mm Jan 1-Aug 12, 4.21γ/mm Aug 13-Dec 31
D	0.92'/mm All year
Z	4.20γ/mm Jan 1-Jun 30, 4.10γ/mm Jul 1-Dec 31

7. Baseline separations, to give scale

Sensitive magnetograms.

Dates	H-D	D-Z
Jan 1-Feb 19	44.0	153.9
Feb 20-Feb 21	43.8 to 43.1	"
Feb 22-Apr 16	43.0	"
Apr 17-May 2	42.6	"
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Aug 6-Aug 11	24.2	164.1
Aug 12, part of	21.8	"
Aug 12-Oct 31	24.2	"
Nov 1-Nov 18	23.8	164.4
Nov 19-Nov 28	23.4	164.7
Nov 29-Dec 31	23.0	"

All measured in mm. with probable error of ± 0.2 mm

Insensitive magnetograms /

Insensitive magnetograms

	D-H	H-Z
Jan 1-Apr 30	63.0 mm ±0.2	114.0 mm ±0.3
May 1-May 18	63.4 mm ±0.2	113.6 mm ±0.3
May 18-Jun 10	63.4 mm ±0.2	113.3 mm ±0.3
Jun 11-Dec 31	73.7 mm ±0.3	113.3 mm ±0.3

8. Baseline Values

Sensitive Magnetograms

H baselines		D baselines		Z baselines	
Jan 1-7	23,098 γ	Jan 1-Feb 29	17° 37.5'	Jan 1-31	-36,160γ
Jan 8-11	97	Mar 1- 31	37.6	Feb 1-Apr 30	163
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Jan 29-Feb 1	92				
Feb 2- 5	91				
6-10	90				
11-15	89				
16-19	88				
20-23	87				
24-29	86				
Mar 1-Jun 30	85				
Jul 1-Aug 11	12				
Aug 12-Nov 30	42				
Dec 1-Dec 31	41				

Note: H and Z baselines are at 0°C
Insensitive magnetogram baselines and scale values are calculated where required, by comparison with the sensitive magnetograms.

ARGENTINE ISLANDS A.973 OCTOBER 1964

Lower limit K9: 500γ Scale values: H,4.21γ/mm; D,6.24γ/mm.

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1964

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 1964

1. Instruments

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

2. Time

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

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

Sensitive Magnetograms

Trace	Correction		
	Jan 1–Jun 30	Jul 6–Aug 5	Aug 6–Dec 31
H	+3 mins.	+1 mins.	+1 mins.
D	-1	-1	+2
Z	+1	0	+1
T	+4	+3	+3

Corrections July 1 to July 6 variable due to several baseline changes. They can be deduced by inspection of the relative positions of the traces with the appropriate 2400Z time mark.

Insensitive Magnetograms

Trace	Correction	
	Jan 1–Jun 10	Jun 11–Dec 31
H	-4 mins.	-4 mins.
D	+1	0
Z	-1	+1
T	-2	-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 (when baseline double, upper line used)

H baseline

T trace

H trace

Z baseline and trace

4. /

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 :	4.7 γ/°C	Jan 1-Jun 30	Z :	0.0 γ/°C	Jan 1-Jun 30
	4.15	Jul 1-Dec 31		1.2	Jul 1-Dec 31

T trace	Scale Value	Baseline
Jan 1-Jun 30	0.55 °C/mm	11.3 °C
Jul 1-Aug 12	0.53	0.3
Aug 13-Dec 31	0.53	10.8

6. Scale Values, Sensitive magnetograms

H	4.30γ/mm Jan 1-Aug 12, 4.21γ/mm Aug 13-Dec 31
D	0.92'/mm All year
Z	4.20γ/mm Jan 1-Jun 30, 4.10γ/mm Jul 1-Dec 31

7. Baseline separations, to give scale

Sensitive magnetograms.

Dates	H-D	D-Z
Jan 1-Feb 19	44.0	153.9
Feb 20-Feb 21	43.8 to 43.1	"
Feb 22-Apr 16	43.0	"
Apr 17-May 2	42.6	"
May 3-Jun 24	42.3	"
Jun 25-Jun 30	42.7	"
Jul 1-Aug 5	42.0	146.5
Aug 6-Aug 11	24.2	164.1
Aug 12, part of	21.8	"
Aug 12-Oct 31	24.2	"
Nov 1-Nov 18	23.8	164.4
Nov 19-Nov 28	23.4	164.7
Nov 29-Dec 31	23.0	"

All measured in mm, with probable error of ± 0.2 mm

Insensitive magnetograms

	D-H	H-Z
Jan 1-Apr 30	63.0 mm ±0.2	114.0 mm ±0.3
May 1-May 18	63.4 mm ±0.2	113.6 mm ±0.3
May 18-Jun 10	63.4 mm ±0.2	113.3 mm ±0.3
Jun 11-Dec 31	73.7 mm ±0.3	113.3 mm ±0.3

8. Baseline Values

Sensitive Magnetograms

H baselines		D baselines		Z baselines	
Jan 1-7	23,098 γ	Jan 1-Feb 29	17° 37.5'	Jan 1-31	-36,160γ
Jan 8-11	97	Mar 1- 31	37.6	Feb 1-Apr 30	163
12-15	96	Apr 1-Jun 30	37.8	May 1-31	168
16-20	95	Jul 1-Aug 5	41.9	Jun 1-30	170
21-24	94	Aug 6-Dec 31	19.1	Jul 1-Aug 7	064
25-28	93			Aug 8-Dec 31	073
Jan 29-Feb 1	92				
Feb 2- 5	91				
6-10	90				
11-15	89				
16-19	88				
20-23	87				
24-29	86				
Mar 1-Jun 30	85				
Jul 1-Aug 11	12				
Aug 12-Nov 30	42				
Dec 1-Dec 31	41				

Note: H and Z baselines are at 0°C
Insensitive magnetogram baselines and scale values are calculated where required, by comparison with the sensitive magnetograms.

ARGENTINE ISLANDS A.973 — NOVEMBER 1964

Lower limit Kγ. 500γ — Scale values: H,4.24γ/mm; D,6.24γ/mm.

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1964

FROM ARGENTINE ISLANDS A.973

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

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

ARGENTINE ISLANDS A.973

EXPLANATORY NOTES 1964

1. Instruments

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

2. Time

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

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

Sensitive Magnetograms

Trace	Correction		
	Jan 1–Jun 30	Jul 6–Aug 5	Aug 6–Dec 31
H	+3 mins.	+1 mins.	+1 mins.
D	-1	-1	+2
Z	+1	0	+1
T	+4	+3	+3

Corrections July 1 to July 6 variable due to several baseline changes. They can be deduced by inspection of the relative positions of the traces with the appropriate 2400Z time mark.

Insensitive Magnetograms

Trace	Correction	
	Jan 1–Jun 10	Jun 11–Dec 31
H	-4 mins.	-4 mins.
D	+1	0
Z	-1	+1
T	-2	-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 (when baseline double, upper line used)

H baseline

T trace

H trace

Z baseline and trace

4. /

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 : 4.7 γ/°C Jan 1-Jun 30 Z : 0.0 γ/°C Jan 1-Jun 30
4.15 Jul 1-Dec 31 1.2 Jul 1-Dec 31

T trace	Scale Value	Baseline
Jan 1-Jun 30	0.55 °C/mm	11.3 °C
Jul 1-Aug 12	0.53	0.3
Aug 13-Dec 31	0.53	10.8

6. Scale Values, Sensitive magnetograms

H	4.30γ/mm Jan 1-Aug 12, 4.21γ/mm Aug 13-Dec 31
D	0.92'/mm All year
Z	4.20γ/mm Jan 1-Jun 30, 4.10γ/mm Jul 1-Dec 31

7. Baseline separations, to give scale

Sensitive magnetograms.

Dates	H-D	D-Z
Jan 1-Feb 19	44.0	153.9
Feb 20-Feb 21	43.8 to 43.1	"
Feb 22-Apr 16	43.0	"
Apr 17-May 2	42.6	"
May 3-Jun 24	42.3	"
Jun 25-Jun 30	42.7	"
Jul 1-Aug 5	42.0	146.5
Aug 6-Aug 11	24.2	164.1
Aug 12, part of	21.8	"
Aug 12-Oct 31	24.2	"
Nov 1-Nov 18	23.8	164.4
Nov 19-Nov 28	23.4	164.7
Nov 29-Dec 31	23.0	"

All measured in mm, with probable error of ± 0.2 mm

Insensitive magnetograms /

Insensitive magnetograms

	D-H	H-Z
Jan 1-Apr 30	63.0 mm ±0.2	114.0 mm ±0.3
May 1-May 18	63.4 mm ±0.2	113.6 mm ±0.3
May 18-Jun 10	63.4 mm ±0.2	113.3 mm ±0.3
Jun 11-Dec 31	73.7 mm ±0.3	113.3 mm ±0.3

8. Baseline Values

Sensitive Magnetograms

H baselines		D baselines		Z baselines	
Jan 1-7	23,098 γ	Jan 1-Feb 29	17° 37.5'	Jan 1-31	-36,160γ
Jan 8-11	97	Mar 1- 31	37.6	Feb 1-Apr 30	163
12-15	96	Apr 1-Jun 30	37.8	May 1-31	168
16-20	95	Jul 1-Aug 5	41.9	Jun 1-30	170
21-24	94	Aug 6-Dec 31	19.1	Jul 1-Aug 7	064
25-28	93			Aug 8-Dec 31	073
Jan 29-Feb 1	92				
Feb 2- 5	91				
6-10	90				
11-15	89				
16-19	88				
20-23	87				
24-29	86				
Mar 1-Jun 30	85				
Jul 1-Aug 11	12				
Aug 12-Nov 30	42				
Dec 1-Dec 31	41				

Note: H and Z baselines are at 0°C
Insensitive magnetogram baselines and scale values are calculated where required, by comparison with the sensitive magnetograms.

1

ARGENTINE ISLANDS A.973 DECEMBER 1964

Lower limit K9: 500y Scale values: H,4.21y/mm; D,6.24y/mm.

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