

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1965

FROM ARGENTINE ISLANDS A.975

LAT. -65° 15'

LONG. 295° 44'

GEOMAGNETIC LAT. -55.3°

GEOMAGNETIC LONG. 5.5°

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 5687

ARGENTINE ISLANDS A.973

EXPLANATORY NOTES 1965

1. Instruments

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

2. Time

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

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>	
	Jan 01-07	Jan 08-Dec 31
H	+1 min.	+1 min.
D	+1 $\frac{1}{2}$	+1 $\frac{1}{2}$
Z	-3	- $\frac{1}{2}$
T	+3	+3

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
	Jan 01-Dec 31
H	-4 mins.
D	0
Z	+1
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

From May until September the 2nd reflexion of the T trace appears at the top of the chart.

Insensitive Magnetograms

D trace and baseline
(when baseline double,
upper line used)
T trace
H baseline
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 : 4.6 $\gamma/^\circ\text{C}$ Jan 01 - Jun 30 Z : 0.35 $\gamma/^\circ\text{C}$ Jan 01 - Jun 30
 3.8 $\gamma/^\circ\text{C}$ Jul 01 - Dec 31 1.8 $\gamma/^\circ\text{C}$ Jul 01 - Dec 31

<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Jun 30	0.53 $^\circ\text{C}/\text{mm}$	10.2 $^\circ\text{C}$
Jul 01 - Dec 31	0.48 $^\circ\text{C}/\text{mm}$	9.7 $^\circ\text{C}$

6. Scale Values, Sensitive magnetograms

H 4.19 γ/mm Jan 01 - Jan 31 4.14 γ/mm Feb 01 - Dec 31
 D 0.92 γ/mm Jan 01 - Dec 31
 Z 4.08 γ/mm Jan 01 - Dec 31

7. Baseline separations, to give scale

Sensitive magnetograms.

<u>Dates</u>	<u>H-D</u>	<u>D-Z</u>
Jan 1 - Feb 19	22.7	165.2
Feb 20 - Mar 19	"	165.1
Mar 20 - Mar 31	"	165.0
Apr 1 - May 12	22.8	"
May 13 - May 31	"	164.4
Jun 1 - Jul 31	22.9	164.7
Aug 1 - Aug 5	23.0	"
Aug 6 - Aug 28	"	164.4
Aug 29 - Nov 1	"	164.7
Nov 2 - Nov 22	"	165.0
Nov 23 - Dec 31	22.6	"

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

Insensitive magnetograms

	<u>D-H</u>	<u>H-Z</u>
Jan 1 - Oct 13	73.9	113.2
Oct 14 - Oct 17	76.0	"
Oct 18 - Dec 31	74.9	"

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

8. Baseline Values

Sensitive magnetograms

<u>H baselines</u>		<u>D baselines</u>		<u>Z baselines</u>	
Jan 01 - Jun 30	23,035 γ	Jan 01 - Jan 02	17 $^\circ$ 19.1'	Jan 01 - May 19	-36,085 γ
Jul 01 - Dec 31	22,980 γ	Jan 03 - Jan 26	19.4	May 20 - May 26	086
		Jan 27 - Feb 21	19.5	May 27 - Jun 04	087
		Feb 22 - Mar 18	19.6	Jun 05 - Jun 11	088
		Mar 19 - Mar 31	19.7	Jun 12 - Jun 18	089
		Apr 01 - Jun 19	19.9	Jun 19 - Jun 25	090
		Jun 20 - Nov 21	20.0	Jun 26 - Jun 30	091
		Nov 22 - Dec 31	20.1	Jul 01 - Jul 10	-35,955
				Jul 11 - Aug 13	957
				Aug 14 - Dec 31	959

Note: H and Z baselines are at 0 $^\circ\text{C}$

Insensitive magnetogram baselines and scale values are calculated where required, by comparison with the sensitive magnetograms

Lower limit K9: 500y

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

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

q indicates K = 0, 1 or 2 when storm magnetogram has been used.

x indicates record missing.

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Note: H and Z baselines are at 0°C

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1965

FROM ARGENTINE ISLANDS A.975

LAT. -65° 15'

LONG. 295° 44'

GEOMAGNETIC LAT. -55.3°

GEOMAGNETIC LONG. 5.5°

ORIGINAL RECORDS HELD AT:-

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DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

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Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

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30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 5687

ARGENTINE ISLANDS A.973

EXPLANATORY NOTES 1965

1. Instruments

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

2. Time

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

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>	
	Jan 01-07	Jan 08-Dec 31
H	+1 min.	+1 min.
D	+1 $\frac{1}{2}$	+1 $\frac{1}{2}$
Z	-3	- $\frac{1}{2}$
T	+3	+3

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
	Jan 01-Dec 31
H	-4 mins.
D	0
Z	+1
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

From May until September the 2nd reflexion of the T trace appears at the top of the chart.

Insensitive Magnetograms

D trace and baseline
(when baseline double,
upper line used)
T trace
H baseline
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 : 4.6 $\gamma/^\circ\text{C}$ Jan 01 - Jun 30 Z : 0.35 $\gamma/^\circ\text{C}$ Jan 01 - Jun 30
 3.8 $\gamma/^\circ\text{C}$ Jul 01 - Dec 31 1.8 $\gamma/^\circ\text{C}$ Jul 01 - Dec 31

<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Jun 30	0.53 $^\circ\text{C}/\text{mm}$	10.2 $^\circ\text{C}$
Jul 01 - Dec 31	0.48 $^\circ\text{C}/\text{mm}$	9.7 $^\circ\text{C}$

6. Scale Values, Sensitive magnetograms

H 4.19 γ/mm Jan 01 - Jan 31 4.14 γ/mm Feb 01 - Dec 31
 D 0.92 γ/mm Jan 01 - Dec 31
 Z 4.08 γ/mm Jan 01 - Dec 31

7. Baseline separations, to give scale

Sensitive magnetograms.

<u>Dates</u>	<u>H-D</u>	<u>D-Z</u>
Jan 1 - Feb 19	22.7	165.2
Feb 20 - Mar 19	"	165.1
Mar 20 - Mar 31	"	165.0
Apr 1 - May 12	22.8	"
May 13 - May 31	"	164.4
Jun 1 - Jul 31	22.9	164.7
Aug 1 - Aug 5	23.0	"
Aug 6 - Aug 28	"	164.4
Aug 29 - Nov 1	"	164.7
Nov 2 - Nov 22	"	165.0
Nov 23 - Dec 31	22.6	"

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

Insensitive magnetograms

	<u>D-H</u>	<u>H-Z</u>
Jan 1 - Oct 13	73.9	113.2
Oct 14 - Oct 17	76.0	"
Oct 18 - Dec 31	74.9	"

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

8. Baseline Values

Sensitive magnetograms

<u>H baselines</u>		<u>D baselines</u>		<u>Z baselines</u>	
Jan 01 - Jun 30	23,035 γ	Jan 01 - Jan 02	17 $^\circ$ 19.1'	Jan 01 - May 19	-36,085 γ
Jul 01 - Dec 31	22,980 γ	Jan 03 - Jan 26	19.4	May 20 - May 26	086
		Jan 27 - Feb 21	19.5	May 27 - Jun 04	087
		Feb 22 - Mar 18	19.6	Jun 05 - Jun 11	088
		Mar 19 - Mar 31	19.7	Jun 12 - Jun 18	089
		Apr 01 - Jun 19	19.9	Jun 19 - Jun 25	090
		Jun 20 - Nov 21	20.0	Jun 26 - Jun 30	091
		Nov 22 - Dec 31	20.1	Jul 01 - Jul 10	-35,955
				Jul 11 - Aug 13	957
				Aug 14 - Dec 31	959

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

Lower limit K₉: 500y

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

Day	K _H								K _D								Max(K _H , K _D)								Sum
	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	
1	2	0	1	0	0	1	1	0	2	2	1	0	1	0	0	0	2	2	1	0	1	1	1	0	8
2	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	3
3	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
4	0	2	3	2	1	1	0	0	0	2	3	1	1	0	0	0	0	2	3	2	1	1	0	0	9
5	1	3	0	0	0	0	0	1	0	3	1	0	0	0	0	0	1	3	1	0	0	0	0	1	6
6	1	2	1	0	1	2	0	2	1	1	1	0	1	0	0	2	1	2	1	0	1	2	0	2	9
7	2	3	1	1	2	0	0	1	3	3	3	2	1	0	0	2	3	3	3	2	2	0	0	2	15
8	1	0	0	0	0	1	0	1	1	0	0	1	0	0	0	0	1	0	0	1	0	1	0	1	4
9	4	3	2	1	0	1	1	3	3	4	3	1	0	0	0	1	4	4	3	1	0	1	1	3	17
10	3	3	1	1	0	0	0	0	1	2	1	2	0	0	0	0	3	3	1	2	0	0	0	0	9
11	1	0	0	0	1	2	3	1	2	0	1	0	0	0	2	1	2	0	1	0	1	2	3	1	10
12	2	2	1	1	0	0	2	2	2	3	1	0	0	0	1	1	2	3	1	1	0	0	2	2	11
13	2	1	1	0	0	0	0	0	3	2	2	2	0	0	0	0	3	2	2	2	0	0	0	0	9
14	1	1	1	1	1	0	0	1	1	2	0	1	0	0	0	0	1	2	1	1	1	0	0	1	7
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16	2	2	1	0	0	0	0	0	1	2	1	0	0	0	0	0	2	2	1	0	0	0	0	0	5
17	0	1	0	0	2	3	3	2	0	1	2	0	0	2	1	1	0	1	2	0	2	3	3	2	13
18	4	5	7	4	3	3	1	2	5	5	6	6	3	2	2	2	5	5	7	6	3	3	2	2	33
19	2	1	1	2	1	3	3	2	4	1	1	2	1	2	2	4	4	1	1	2	1	3	3	4	19
20	3	3	1	2	2	2	1	1	4	2	1	2	3	1	0	1	4	3	1	2	3	2	1	1	17
21	2	0	0	1	0	1	0	0	2	1	0	0	0	0	0	0	2	1	0	1	0	1	0	0	5
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29	0	1	1	0	0	1	1	1	0	1	1	0	0	0	0	0	0	1	1	0	0	1	1	1	5
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From May until September the 2nd reflexion of the T trace appears at the top of the chart.

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		Mar 19 - Mar 31	19.7	Jun 12 - Jun 18	089
		Apr 01 - Jun 19	19.9	Jun 19 - Jun 25	090
		Jun 20 - Nov 21	20.0	Jun 26 - Jun 30	091
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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

Lower limit K9: 500y

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

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1965

FROM ARGENTINE ISLANDS A.975

LAT. -65° 15'

LONG. 295° 44'

GEOMAGNETIC LAT. -55.3°

GEOMAGNETIC LONG. 5.5°

ORIGINAL RECORDS HELD AT:-

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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 5687

EXPLANATORY NOTES 1965

1. Instruments

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

2. Time

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

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>	
	Jan 01-07	Jan 08-Dec 31
H	+1 min.	+1 min.
D	+1 $\frac{1}{2}$	+1 $\frac{1}{2}$
Z	-3	- $\frac{1}{2}$
T	+3	+3

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
	Jan 01-Dec 31
H	-4 mins.
D	0
Z	+1
T	-2

3. Order of Traces, from top to bottom:

Sensitive Magnetograms

H trace and baseline
T trace
D baseline and trace
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From May until September the 2nd reflexion of the T trace appears at the top of the chart.

Insensitive Magnetograms

D trace and baseline
(when baseline double,
upper line used)
T trace
H baseline
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.
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 (N.B. Z is negative, hence as Z increases, modulus of Z decreases.)

5. Temperature coefficients

H baseline values increase with increasing temperature.
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Temperature coefficients:

H : 4.6 $\gamma/^\circ\text{C}$ Jan 01 - Jun 30 Z : 0.35 $\gamma/^\circ\text{C}$ Jan 01 - Jun 30
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<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Jun 30	0.53 $^\circ\text{C}/\text{mm}$	10.2 $^\circ\text{C}$
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H 4.19 γ/mm Jan 01 - Jan 31 4.14 γ/mm Feb 01 - Dec 31
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Sensitive magnetograms.

<u>Dates</u>	<u>H-D</u>	<u>D-Z</u>
Jan 1 - Feb 19	22.7	165.2
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Jul 01 - Dec 31	22,980 γ	Jan 03 - Jan 26	19.4	May 20 - May 26	086
		Jan 27 - Feb 21	19.5	May 27 - Jun 04	087
		Feb 22 - Mar 18	19.6	Jun 05 - Jun 11	088
		Mar 19 - Mar 31	19.7	Jun 12 - Jun 18	089
		Apr 01 - Jun 19	19.9	Jun 19 - Jun 25	090
		Jun 20 - Nov 21	20.0	Jun 26 - Jun 30	091
		Nov 22 - Dec 31	20.1	Jul 01 - Jul 10	-35,955
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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

Lower limit K9: 500y

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1	0	0	1	0	0	0	1	2	0	0	1	1	0	0	0	0	0	0	1	1	0	0	1	2	5
2	1	0	1	1	0	1	1	2	2	0	0	0	1	0	1	1	2	0	1	1	1	1	1	2	9
3	1	1	1	0	1	1	3	3	1	0	0	0	0	0	3	2	1	1	1	0	1	1	3	3	11
4	1	2	2	3	2	2	2	2	0	0	2	3	1	2	1	4	1	2	2	3	2	2	2	4	18
5	3	3	1	0	0	0	0	0	3	3	2	0	0	0	0	0	3	3	2	0	0	0	0	0	8
6	0	2	2	1	0	1	1	1	0	2	1	1	1	0	1	0	0	2	2	1	1	1	1	1	9
7	2	1	0	0	0	0	0	0	2	2	0	0	0	0	0	0	2	2	0	0	0	0	0	0	4
8	1	0	2	2	2	1	2	3	2	0	2	1	1	0	2	3	2	0	2	2	2	1	2	3	14
9	3	4	3	1	2	2	2	1	4	3	3	3	2	3	1	1	4	4	3	3	2	3	2	1	22
10	2	2	0	0	0	0	0	0	1	2	0	0	0	0	0	0	2	2	0	0	0	0	0	0	4
11	0	1	0	0	0	1	1	0	0	1	0	0	0	0	1	0	0	1	0	0	0	1	1	0	3
12	1	0	1	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	2	1	1	1	1	3	2	0	2	2	1	1	1	2	3	0	2	2	1	1	1	3	3	13
15	0	1	2	3	3	3	4	4	1	1	2	2	3	3	3	3	1	1	2	3	3	3	4	4	21
16	4	4	4	4	4	3	4	4	6	5	5	5	4	3	5	5	6	5	5	5	4	3	5	5	38
17	5	4	3	2	3	3	1	5	5	4	5	4	3	2	2	6	5	4	5	4	3	3	2	6	32
18	5	3	1	1	0	0	2	3	4	3	1	0	0	0	2	1	5	3	1	1	0	0	2	3	15
19	3	1	1	0	0	0	0	0	2	1	1	0	0	0	0	0	3	1	1	0	0	0	0	0	5
20	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
21	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
22	1	1	1	1	0	0	0	1	2	2	0	1	0	0	0	0	2	2	1	1	0	0	0	1	7
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27	3	2	1	1	1	1	1	0	4	2	2	2	1	0	0	0	4	2	2	2	1	1	1	0	13
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29	2	2	3	2	1	1	1	3	0	2	3	3	1	2	2	3	2	2	3	3	1	2	2	3	18
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1	3	3	3	3	2	1	2	2	5	3	3	3	2	1	2	4	5	3	3	3	2	1	2	4	23
2	2	2	1	1	1	1	1	1	2	3	1	1	1	1	1	1	2	3	1	1	1	1	1	1	11
3	3	1	2	0	0	0	3	1	3	2	2	0	0	0	1	2	3	2	2	0	0	0	3	2	12
4	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	1	4
5	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
6	1	4	3	2	2	2	1	1	2	4	4	3	3	2	2	2	2	4	4	3	3	2	2	2	22
7	2	3	2	1	0	0	1	2	2	2	2	2	0	0	0	1	2	3	2	2	0	0	1	2	12
8	4	4	1	1	2	3	2	3	4	4	1	0	0	2	3	4	4	4	1	1	2	3	3	4	22
9	3	3	1	1	1	1	2	2	5	5	1	1	0	1	1	1	5	5	1	1	1	1	2	2	18
10	3	4	3	3	1	1	0	0	3	5	4	3	1	2	1	0	3	5	4	3	1	2	1	0	19
11	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	2
12	0	0	0	0	0	2	2	2	0	0	0	0	0	1	1	0	0	0	0	0	0	2	2	2	6
13	0	1	1	2	1	0	1	0	0	0	1	2	1	0	1	0	0	1	1	2	1	0	1	0	6
14	2	3	1	0	0	1	0	1	2	2	2	0	0	0	0	2	2	3	2	0	0	1	0	2	10
15	1	2	2	1	1	0	1	3	1	1	4	2	2	1	0	2	1	2	4	2	2	1	1	3	16
16	2	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	2	1	1	0	0	0	0	0	4
17	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
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19	2	2	4	4	2	3	1	1	1	1	4	5	2	2	1	1	2	2	4	5	2	3	1	1	20
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21	3	2	2	0	0	0	1	0	2	1	1	0	0	0	0	0	3	2	2	0	0	0	1	0	8
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<u>Dates</u>	<u>H-D</u>	<u>D-Z</u>
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	<u>D-H</u>	<u>H-Z</u>
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		Jan 27 - Feb 21	19.5	May 27 - Jun 04	087
		Feb 22 - Mar 18	19.6	Jun 05 - Jun 11	088
		Mar 19 - Mar 31	19.7	Jun 12 - Jun 18	089
		Apr 01 - Jun 19	19.9	Jun 19 - Jun 25	090
		Jun 20 - Nov 21	20.0	Jun 26 - Jun 30	091
		Nov 22 - Dec 31	20.1	Jul 01 - Jul 10	-35,955
				Jul 11 - Aug 13	957
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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

Lower limit K9: 500y

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

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1965

FROM ARGENTINE ISLANDS A.975

LAT. -65° 15'

LONG. 295° 44'

GEOMAGNETIC LAT. -55.3°

GEOMAGNETIC LONG. 5.5°

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 5687

ARGENTINE ISLANDS A.973

EXPLANATORY NOTES 1965

1. Instruments

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

2. Time

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

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>	
	Jan 01-07	Jan 08-Dec 31
H	+1 min.	+1 min.
D	+1 $\frac{1}{2}$	+1 $\frac{1}{2}$
Z	-3	- $\frac{1}{2}$
T	+3	+3

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
	Jan 01-Dec 31
H	-4 mins.
D	0
Z	+1
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

From May until September the 2nd reflexion of the T trace appears at the top of the chart.

Insensitive Magnetograms

D trace and baseline
(when baseline double,
upper line used)
T trace
H baseline
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.
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Temperature coefficients:

H : 4.6 $\gamma/^\circ\text{C}$ Jan 01 - Jun 30 Z : 0.35 $\gamma/^\circ\text{C}$ Jan 01 - Jun 30
 3.8 $\gamma/^\circ\text{C}$ Jul 01 - Dec 31 1.8 $\gamma/^\circ\text{C}$ Jul 01 - Dec 31

<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Jun 30	0.53 $^\circ\text{C}/\text{mm}$	10.2 $^\circ\text{C}$
Jul 01 - Dec 31	0.48 $^\circ\text{C}/\text{mm}$	9.7 $^\circ\text{C}$

6. Scale Values, Sensitive magnetograms

H 4.19 γ/mm Jan 01 - Jan 31 4.14 γ/mm Feb 01 - Dec 31
 D 0.92 γ/mm Jan 01 - Dec 31
 Z 4.08 γ/mm Jan 01 - Dec 31

7. Baseline separations, to give scale

Sensitive magnetograms.

<u>Dates</u>	<u>H-D</u>	<u>D-Z</u>
Jan 1 - Feb 19	22.7	165.2
Feb 20 - Mar 19	"	165.1
Mar 20 - Mar 31	"	165.0
Apr 1 - May 12	22.8	"
May 13 - May 31	"	164.4
Jun 1 - Jul 31	22.9	164.7
Aug 1 - Aug 5	23.0	"
Aug 6 - Aug 28	"	164.4
Aug 29 - Nov 1	"	164.7
Nov 2 - Nov 22	"	165.0
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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 1965

Lower limit K9: 500y

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

Day	K_H								K_D								Max(K_H, K_D)								Sum
	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	E1	E2	E3	E4	E5	E6	E7	E8	
1	1	2	2	0	0	1	1	1	1	2	2	0	0	0	1	1	1	2	2	0	0	1	1	1	8
2	3	2	1	1	1	0	1	1	3	1	1	1	2	0	0	1	3	2	1	1	2	0	1	1	11
3	0	1	0	0	0	1	0	3	0	0	0	0	0	0	0	2	0	1	0	0	0	1	0	3	5
4	2	3	2	2	3	2	2	1	2	3	3	2	2	2	2	2	2	3	3	2	3	2	2	2	19
5	3	2	2	2	2	0	2	1	3	3	3	1	1	0	1	1	3	3	3	2	2	0	2	1	16
6	2	2	0	1	1	3	2	2	3	1	1	1	1	2	1	0	3	2	1	1	1	3	2	2	15
7	1	2	2	1	0	3	0	2	0	2	1	1	1	2	0	2	1	2	2	1	1	3	0	2	12
8	2	2	0	0	0	0	1	0	2	2	0	0	0	0	0	0	2	2	0	0	0	0	1	0	5
9	1	1	0	0	0	1	0	0	2	1	0	0	0	1	0	0	2	1	0	0	0	1	0	0	4
10	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2
11	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2	3
12	3	2	0	0	0	2	2	3	5	5	0	0	0	0	0	3	5	5	0	0	0	2	2	3	17
13	3	2	1	0	0	0	0	1	4	1	0	0	0	0	0	0	4	2	1	0	0	0	0	1	8
14	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	1	3
15	1	1	2	1	1	3	3	3	1	2	2	3	0	3	2	3	1	2	2	3	1	3	3	3	18
16	5	3	3	3	4	2	3	3	5	2	5	4	3	2	3	2	5	3	5	4	4	2	3	3	29
17	3	3	3	2	2	3	3	3	3	3	4	2	1	2	3	3	3	3	4	2	2	3	3	3	23
18	3	3	1	1	2	1	3	3	1	3	2	1	1	1	2	5	3	3	2	1	2	1	3	5	20
19	2	3	3	2	2	2	2	2	2	2	2	2	3	1	2	1	2	3	3	2	3	2	2	2	19
20	1	0	1	0	0	1	1	2	2	0	2	0	0	1	0	3	2	0	2	0	0	1	1	3	9
21	2	1	1	0	0	0	1	2	2	0	0	0	0	0	1	1	2	1	1	0	0	0	1	2	7
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29	0	1	2	1	0	2	1	3	0	0	1	1	0	0	0	3	0	1	2	1	0	2	1	3	10
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Lower limit K9: 500y

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

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1965

FROM ARGENTINE ISLANDS A.975

LAT. -65° 15'

LONG. 295° 44'

GEOMAGNETIC LAT. -55.3°

GEOMAGNETIC LONG. 5.5°

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 5687

ARGENTINE ISLANDS A.973

EXPLANATORY NOTES 1965

1. Instruments

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

2. Time

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

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>	
	Jan 01-07	Jan 08-Dec 31
H	+1 min.	+1 min.
D	+1 $\frac{1}{2}$	+1 $\frac{1}{2}$
Z	-3	$-\frac{1}{2}$
T	+3	+3

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
	Jan 01-Dec 31
H	-4 mins.
D	0
Z	+1
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

From May until September the 2nd reflexion of the T trace appears at the top of the chart.

Insensitive Magnetograms

D trace and baseline
(when baseline double,
upper line used)
T trace
H baseline
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 : 4.6 $\gamma/^\circ\text{C}$ Jan 01 - Jun 30 Z : 0.35 $\gamma/^\circ\text{C}$ Jan 01 - Jun 30
 3.8 $\gamma/^\circ\text{C}$ Jul 01 - Dec 31 1.8 $\gamma/^\circ\text{C}$ Jul 01 - Dec 31

<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Jun 30	0.53 $^\circ\text{C}/\text{mm}$	10.2 $^\circ\text{C}$
Jul 01 - Dec 31	0.48 $^\circ\text{C}/\text{mm}$	9.7 $^\circ\text{C}$

6. Scale Values, Sensitive magnetograms

H 4.19 γ/mm Jan 01 - Jan 31 4.14 γ/mm Feb 01 - Dec 31
 D 0.92 γ/mm Jan 01 - Dec 31
 Z 4.08 γ/mm Jan 01 - Dec 31

7. Baseline separations, to give scale

Sensitive magnetograms.

<u>Dates</u>	<u>H-D</u>	<u>D-Z</u>
Jan 1 - Feb 19	22.7	165.2
Feb 20 - Mar 19	"	165.1
Mar 20 - Mar 31	"	165.0
Apr 1 - May 12	22.8	"
May 13 - May 31	"	164.4
Jun 1 - Jul 31	22.9	164.7
Aug 1 - Aug 5	23.0	"
Aug 6 - Aug 28	"	164.4
Aug 29 - Nov 1	"	164.7
Nov 2 - Nov 22	"	165.0
Nov 23 - Dec 31	22.6	"

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

Insensitive magnetograms

	<u>D-H</u>	<u>H-Z</u>
Jan 1 - Oct 13	73.9	113.2
Oct 14 - Oct 17	76.0	"
Oct 18 - Dec 31	74.9	"

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

8. Baseline Values

Sensitive magnetograms

<u>H baselines</u>		<u>D baselines</u>		<u>Z baselines</u>	
Jan 01 - Jun 30	23,035 γ	Jan 01 - Jan 02	17 $^\circ$ 19.1'	Jan 01 - May 19	-36,085 γ
Jul 01 - Dec 31	22,980 γ	Jan 03 - Jan 26	19.4	May 20 - May 26	086
		Jan 27 - Feb 21	19.5	May 27 - Jun 04	087
		Feb 22 - Mar 18	19.6	Jun 05 - Jun 11	088
		Mar 19 - Mar 31	19.7	Jun 12 - Jun 18	089
		Apr 01 - Jun 19	19.9	Jun 19 - Jun 25	090
		Jun 20 - Nov 21	20.0	Jun 26 - Jun 30	091
		Nov 22 - Dec 31	20.1	Jul 01 - Jul 10	-35,955
				Jul 11 - Aug 13	957
				Aug 14 - Dec 31	959

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

Lower limit K9: 500y

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

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

Phone: LONDON VICTORIA 5687

EXPLANATORY NOTES 1965

1. Instruments

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

2. Time

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

Sensitive Magnetograms

<u>Trace</u>	<u>Correction</u>	
	Jan 01-07	Jan 08-Dec 31
H	+1 min.	+1 min.
D	+1 $\frac{1}{2}$	+1 $\frac{1}{2}$
Z	-3	- $\frac{1}{2}$
T	+3	+3

Insensitive Magnetograms

<u>Trace</u>	<u>Correction</u>
	Jan 01-Dec 31
H	-4 mins.
D	0
Z	+1
T	-2

3. Order of Traces, from top to bottom:

Sensitive Magnetograms

H trace and baseline
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From May until September the 2nd reflexion of the T trace appears at the top of the chart.

Insensitive Magnetograms

D trace and baseline
(when baseline double,
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<u>T trace</u>	<u>Scale Value</u>	<u>Baseline</u>
Jan 01 - Jun 30	0.53 $^\circ\text{C}/\text{mm}$	10.2 $^\circ\text{C}$
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6. Scale Values, Sensitive magnetograms

H	4.19 γ/mm	Jan 01 - Jan 31	4.14 γ/mm	Feb 01 - Dec 31
D	0.92' /mm	Jan 01 - Dec 31		
Z	4.08 γ/mm	Jan 01 - Dec 31		

7. Baseline separations, to give scale

Sensitive magnetograms.

<u>Dates</u>	<u>H-D</u>	<u>D-Z</u>
Jan 1 - Feb 19	22.7	165.2
Feb 20 - Mar 19	"	165.1
Mar 20 - Mar 31	"	165.0
Apr 1 - May 12	22.8	"
May 13 - May 31	"	164.4
Jun 1 - Jul 31	22.9	164.7
Aug 1 - Aug 5	23.0	"
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Aug 29 - Nov 1	"	164.7
Nov 2 - Nov 22	"	165.0
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All measured in mm, with probable error of ± 0.2 mm

Insensitive magnetograms

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Jul 01 - Dec 31	22,980 γ	Jan 03 - Jan 26	19.4	May 20 - May 26	086
		Jan 27 - Feb 21	19.5	May 27 - Jun 04	087
		Feb 22 - Mar 18	19.6	Jun 05 - Jun 11	088
		Mar 19 - Mar 31	19.7	Jun 12 - Jun 18	089
		Apr 01 - Jun 19	19.9	Jun 19 - Jun 25	090
		Jun 20 - Nov 21	20.0	Jun 26 - Jun 30	091
		Nov 22 - Dec 31	20.1	Jul 01 - Jul 10	-35,955
				Jul 11 - Aug 13	957
				Aug 14 - Dec 31	959

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.

Lower limit K9: 500y

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

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