(FORMERLY FALKLAND ISLANDS DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1975

FROM ARGENTINE ISLANDS A.973

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

ORIGINAL RECORDS HELD AT: -

1. Instruments

These are standard La Cour Variometers and an E.D.A. fluxgate magnetometer, all recording H, D and Z.

2. Time

The La Cour charts are usually changed at Greenwich midnight, so that each chart shows a complete Greenwich day.

On all La Cour records where time dots are present, the parallax correction is negligible provided that the relevant moving time dots are used, except for the insensitive D trace from Nov. O1 onwards for which a correction of -1 minute should be added to times read on the trace. On the normal La Cour records from Nov. 18 onwards, time lines are in use and corrections of +1 minute should be added to times read on the H and D traces. On the fluxgate records, a correction of -1 minute should be added to times read on the

3. Order of Traces

From top to bottom of chart,

~	
La	Cour

		Fluxgate
Normal	Storm	
T trace (when present)	Z trace	H trace
H trace	Z baseline	Time
H baseline	T trace	D trace
T trace (when present)	H trace	Z trace
D trace	H baseline	
D baseline	D trace	
Z trace	D baseline	
Z baseline		

4. Sense of traces

- T increases up the chart
- H increases up the chart
- D increases easterly up the chart
- Z increases (becomes less negative) down the chart

5. Temperature Coefficients

Temperature coefficients (the ordinate, in gammas, increases with increasing temperature when the coefficient is positive) for the normal La Cour records are:

H Jan O1 - May 19
$$-3.8 \text{ y/}^{\circ}\text{C}$$
 Z +3.1 y/ $^{\circ}\text{C}$ May 20 - Jun O2, 2000Z -4.6
Jun O2 - Dec 31 -3.1

	H y/mm	D'/mmn		T OC/mm
Normal	4.34	0.92	-2.76 JanO1-Nov1O, 1800Z -2.34 Nov1O-Dec31	0.55 Jan01-May19 0.59 May20-Jun02, 20002 0.48 Jun02-Dec31
Storm	15.6	2.31	-11.3	Not required
Fluxgate	15.2	2.18	-14.6	Not required

7. Scale of Reproduction

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

8. Baselines

Baselines for each calendar month are given on separate sheets. For the normal La Cour records, baselines at 0°C are quoted. Chart baselines must be calculated using the information given in section 5. The values given for the T baseline (H) are valid when the T trace is below H. When the upper T trace is used, subtract 91.7 mm. from the measured ordinate.

For the storm La Cour and fluxgate records, chart baselines can be deduced by comparison with the normal records or are given on the monthly sheet.

9. Example of computation of absolute values

Sensitive la Com Baselines for January 1979,

074γ " " " " " " " " " " " "
" '' '' '' '' '' '' '' ''
" '' '' '' '' '' '' '' '' ''
" "" ""
075Υ "
<pre> :: :: :: :: :: :: :: :: :: :: :: :: ::</pre>
;; ;; ;;
†† ††
11
T 1
71
Ħ
11
ŤŤ
C76Y
tt
71
TT
TŤ
††
11
††
††
TT
077γ
**
**
77
17
TT

Insensitive La Cour baselines for Jan 19, 1975:

- Η 22,486γ
- D 16°23.0'
- $Z = -35, 190\gamma$

(FORMERLY FALKLAND ISLANDS DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1975

FROM ARGENTINE ISLANDS A.973

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

ORIGINAL RECORDS HELD AT: -

1. Instruments

These are standard La Cour Variometers and an E.D.A. fluxgate magnetometer, all recording H, D and Z.

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3. Order of Traces

From top to bottom of chart,

La Cour		
Normal	Storm	Fluxgate
T trace (when present)	Z trace	H trace
H trace	Z baseline	Time
H baseline	T trace	D trace
T trace (when present)	H trace	Z trace
D trace	H baseline	
D baseline	D trace	
Z trace	D baseline	
Z baseline		

4. Sense of traces

T increases up the chart

H increases up the chart

D increases easterly up the chart

Z increases (becomes less negative) down the chart

5. Temperature Coefficients

Temperature coefficients (the ordinate, in gammas, increases with increasing temperature when the coefficient is positive) for the normal La Cour records are:-

H Jan 01 - May 19
$$-3.8 \text{ y/}^{\circ}\text{C}$$
 Z +3.1 y/ $^{\circ}\text{C}$
May 20 - Jun 02, 2000Z -4.6
Jun 02 - Dec 31 -3.1

	H y/mm	D'/mm	Z y/mm	T C/mm
Norma 1	4.34	0.92	-2.76 JanO1-Nov1O, 1800Z -2.34 Nov1O-Dec31	0.55 Jan01-May19 0.59 May20-Jun02, 20002 0.48 Jun02-Dec31
Storm	15-6	2.31	-11.3	Not required
Fluxgate	15.2	2.18	-14.6	Not required

7. Scale of Reproduction

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

8. Baselines

Baselines for each calendar month are given on separate sheets. For the normal La Cour records, baselines at 0°C are quoted. Chart baselines must be calculated using the information given in section 5. The values given for the T baseline (H) are valid when the T trace is below H. When the upper T trace is used, subtract 91.7 mm. from the measured ordinate.

For the storm La Cour and fluxgate records, chart baselines can be deduced by comparison with the normal records or are given on the monthly sheet.

9. Example of computation of absolute values

Seminative La Coma Basellaness for February 1975

Day	i i	T	D	Z
1	22,5477	22.9°C	16039.41	-35,077Y
2	† †	ff	† †	ijij
3	† †	† †	† †	† f
4	† †	† †	† †	† †
5	**	ţt	? 1	**
6	* *	† T	11	-35,078 _Y
7	f f	11	t 1	**
8	. Tt	† †	**	71
9	**	**	**	11
10	*1	**	††	**
11	11	77	11	ŤŤ
12	**	71	71	**
13	77	77	**	† †
14		**	**	**
15	T†	**	**	Tt
16	22,546γ	? **	11	-35,079γ
17	**	11	**	tt
18	11	**	ŢŢ	***
19	17	**	7:	**
20	11	**	11	tt
21	**	11	33	-35,080γ
22.	††	7.7	ŤŤ	77
23	**	33	TT	tt
24	**	**	**	71
25	***	***	**	**
26	† †	22.8°C	ŤŤ	77
27	**	T 1	t ¶	ŤŤ
28	7 7	**	**	11

(FORMERLY FALKLAND ISLANDS DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1975

FROM ARGENTINE ISLANDS A.973

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

ORIGINAL RECORDS HELD AT: -

1. Instruments

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2. Time

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3. Order of Traces

From top to bottom of chart,

	Fluxgate	
Normal	Storm	
T trace (when present)	Z trace	H trace
H trace	Z baseline	Time
H baseline	T trace	D trace
T trace (when present)	H trace	Z trace
D trace	H baseline	
D baseline	D trace	
Z trace	D baseline	
Z baseline		

4. Sense of traces

T increases up the chart

H increases up the chart

D increases easterly up the chart

Z increases (becomes less negative) down the chart

5. Temperature Coefficients

Temperature coefficients (the ordinate, in gammas, increases with increasing temperature when the coefficient is positive) for the normal La Cour records are:-

H Jan 01 - May 19 -3.8
$$\gamma$$
/°C Z +3.1 γ /°C May 20 - Jun 02, 2000Z -4.6 Jun 02 - Dec 31 -3.1

	H //mm	D'/mm	Z //mun	T OC/mm
Normal	4.34	0.92	-2.76 Jan01-Nov10, 1800Z -2.34 Nov10-Dec31	0.55 Jan01-May19 0.59 May20-Jun02, 20002 0.48 Jun02-Dec31
Storm	15.6	2.31	-11-3	Not required
Fluxgate	15.2	2.18	-14.6	Not required

7. Scale of Reproduction

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

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Baselines for each calendar month are given on separate sheets. For the normal La Cour records, baselines at 0°C are quoted. Chart baselines must be calculated using the information given in section 5. The values given for the T baseline (H) are valid when the T trace is below H. When the upper T trace is used, subtract 91.7 mm. from the measured ordinate.

For the storm La Cour and fluxgate records, chart baselines can be deduced by comparison with the normal records or are given on the monthly sheet.

9. Example of computation of absolute values

1975 Jan O1, 1200Z

H etc., baselines (at
$$T = 0^{\circ}C$$
 for H and Z)

q , temperature coefficients

s , scale values

n , ordinates in millimetres

$$H = H_{o} + s_{H}n_{H} + q_{H} (T_{s} - (T_{o} + s_{T}n_{T}))$$

$$= 22549 + 4.34 \times 13.1 + (-3.8)(0 - (22.9 + 0.55 \times (-23.7)))$$

$$= 22643\gamma$$

$$Z = Z_{o} + s_{Z}n_{Z} + q_{Z} (T_{s} - (T_{o} + s_{T}n_{T}))$$

$$= -35074 + (-2.76) \times 26.6 + 3.1(0 - (22.9 - 0.55 \times (-23.7)))$$

$$= -35178\gamma$$

$$D = D_{o} + s_{D}n_{D}$$

$$= 16^{\circ}39.4^{\circ} + 0.92 \times 12.9$$

$$= 16^{\circ}51.3^{\circ} East$$

Sensitive La Cour baselines for March 197,

1 22,545y 22.8°C 16°39.41 -55,081y 2 " " " " " " 3 " " " " " " " 4 " " " " " " " 5 " " " " " " " " 8 " " " " " " " " 8 " " " "	Day	11	T	D	<i>L</i> .
3	1	22,545Y	22.8°C	16039.41	-35,081Y
4	2	71	††	11	• 1
5	3	• 1	71	11	11
6 " " " " " " " " " " " " " " " " " " "	4	77	7 7	9 9	7 7
7 8 11 11 11 11 11 11 11 11 11 11 11 11 1	5	††	7 7	7 7	tt
8				**	11
9 " " " " " " " " " " " " " " " " " " "	7	~ † †	ŤŤ	**	27
10 " " " " " " " " 11 11 " " " " " " " "	8		**	?1	† 1
11	9	••	11	tt	Tt
12	10	t t	TT	ff	TT
13	11	**	71	77	-35,082 _Y
14 " " " " " " " " " " " " " " " " " " "	12	***	**	**	77
15	13	**	11	Tf	tt
16	14	***	ŤŤ	7.7	71
17	15	? ?	**	ŤŤ	***
18	16	27	77	TT.	**
19	17	32	**	**	77
20	18	**	**	77	**
21 22,544\(\gamma\) " " " -35,083\(\gamma\) 22 " " " " " " " " 23 " " " " " " " " " 24 " " " " " " " " " 25 " " " " " " " " -35,084\(\gamma\) 26 " " " " " " " " " 28 " " " " " " " " " 29 " " " " " " " " " 30 " " " " " " " " " "	19	Tt	TI	77	ŤŤ
22	2 0	T1	**	TT	77
23 " " " " " " " " " " " 24 " " " " " " "	21	22,544 _Y	7.7	71	-35,083 _Y
24 " " " " " " " " " 25 " " " " " " " -35,084 \gamma \	22	71	***	**	**
25	23	*1	11	***	**
26 " " " -35,084γ 27 " " " " " " " 28 " " " " " " " " 29 " " " " " " " " " 30 " " " " " " " " " " " " " " " " " " "	24	† †	**	Ť₹	73
27	25	t1	ŤŤ	**	77
28 " " " " " " " " " " " " " " " " " " "	26	t i	7 \$*	***	-35,084y
29 " " " " " " " " " " " " " " " " " " "	27	11	11	1 †	ff
30 II II II II	28	77	ŤŤ	37	***
	29	11	***	ŤŤ	-77
3 1 11 11 11	30	11	11	11	TT
	31	ŤŤ	ŢŢ	77	TŤ

(FORMERLY FALKLAND ISLANDS DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1975

FROM ARGENTINE ISLANDS A.973

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

ORIGINAL RECORDS HELD AT: -

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3. Order of Traces

From top to bottom of chart,

La	Cour

		Fluxgate
Normal	Storm	
T trace (when present)	Z trace	H trace
H trace	Z baseline	Time
H baseline	T trace	D trace
T trace (when present)	H trace	Z trace
D trace	H baseline	
D baseline	D trace	
Z trace	D baseline	
Z baseline		

4. Sense of traces

T increases up the chart

H increases up the chart

D increases easterly up the chart

Z increases (becomes less negative) down the chart

5. Temperature Coefficients

Temperature coefficients (the ordinate, in gammas, increases with increasing temperature when the coefficient is positive) for the normal La Cour records are:-

H Jan 01 - May 19
$$-3.8 \text{ y/}^{\circ}\text{C}$$
 Z +3.1 $\text{y/}^{\circ}\text{C}$ May 20 - Jun 02, 2000Z -4.6 Jun 02 - Dec 31 -3.1

	H y/mm	D ¹/mm	Z y/mm	T OC/mm
Normal	4.34	0.92	-2.76 Jan01-Nov10, 1800Z -2.34 Nov10-Dec31	0.55 Jan01-May19 0.59 May20-Jun02, 2000Z 0.48 Jun02-Dec31
Storm	15.6	2.31	-11.3	Not required
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7. Scale of Reproduction

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

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For the storm La Cour and fluxgate records, chart baselines can be deduced by comparison with the normal records or are given on the monthly sheet.

9. Example of computation of absolute values

1975 Jan O1, 1200Z

H etc., baselines (at
$$T = 0^{\circ}C$$
 for H and Z)

q , temperature coefficients

s , scale values

n , ordinates in millimetres

$$H = H_{0} + s_{H}^{n}H^{+} + q_{H} (T_{s} - (T_{0} + s_{T}^{n}T_{T}))$$

$$= 22549 + 4.34 \times 13.1 + (-3.8)(0 - (22.9 + 0.55 \times (-23.7)))$$

$$= 22643\gamma$$

$$Z = Z_{0} + s_{Z}^{n}Z + q_{Z} (T_{s} - (T_{0} + s_{T}^{n}T_{T}))$$

$$= -35074 + (-2.76) \times 26.6 + 3.1(0 - (22.9 + 0.55 \times (-23.7)))$$

$$= -35178\gamma$$

$$D = D_{0} + s_{D}^{n}D$$

$$= 16^{\circ}39.4^{\circ} + 0.92 \times 12.9$$

$$= 16^{\circ}51.3^{\circ} \text{ East}$$

Sensitive La Cour Baselines for April 1975

Day	11	T	D	Z
1	22,544 _Y	22.8°C	16°39.4.	-35,084y
2	**	**	**	71
3	71	11	??	71
4	**	7*	TT	tt
5	77	73	71	***
6	22,5437	ŤŤ	***	ŤŤ
7	*1	71	77	**
8	**	T1	**	77
9	***	ŤŤ	71	r r
10	**	Tİ	Tİ	77
11	**	ff	71	-35,085γ
12	***	#1	**	77
13	TT	††	TT	ŤŤ
14	††	ŤŤ	11	ŤŤ
15	ŤŤ	**	**	77
16	77	**	***	TŤ
17	**	***	71	77
18	77	77	***	TT
19	ff	77	††	**
20	***	ft	**	TT
21	22,5427	22.7°C	ÎÌ	77
22	***	***	ŤŤ	***
23	***	71	11	TT
24	**	***	***	***
25	***	TT	***	***
26	TI	**	***	-35,086 _Y
27	77	***	TT	***
28	##	TT	TT .	tt
29	TT	f f	77	**
30	TT	TT	77	77

(FORMERLY FALKLAND ISLANDS DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1975

FROM ARGENTINE ISLANDS A.973

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

ORIGINAL RECORDS HELD AT: -

1, Instruments

These are standard La Cour Variometers and an E.D.A. fluxgate magnetometer, all recording H, D and Z.

2. Time

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3. Order of Traces

From top to bottom of chart,

_ 		Fluxgate
Normal	Storm	
T trace (when present)	Z trace	H trace
H trace	Z baseline	Time
H baseline	T trace	D trace
T trace (when present)	H trace	Z trace
D trace	H baseline	
D baseline	D trace	
Z trace	D baseline	
Z baseline		

4. Sense of traces

- T increases up the chart
- H increases up the chart
- D increases easterly up the chart
- Z increases (becomes less negative) down the chart

5. Temperature Coefficients

Temperature coefficients (the ordinate, in gammas, increases with increasing temperature when the coefficient is positive) for the normal La Cour records are:-

H Jan 01 - May 19
$$-3.8 \text{ y/}^{\circ}\text{C}$$
 Z +3.1 $\text{y/}^{\circ}\text{C}$ May 20 - Jun 02, 2000Z -4.6 Jun 02 - Dec 31 -3.1

	H // man	t) */mmn	L Y/mm	T C/mm
Normal	4.34	0.92	-2.76 Jan01-Nov10, 18002 -2.34 Nov10-Dec31	0.55 Jan01-May19 0.59 May20-Jun02, 20002 0.48 Jun02-Dec31
Storm	15.6	2.31	-11.3	Not required
Fluxgate	15.2	2.18	-14.6	Not required

7. Scale of Reproduction

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

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For the storm La Cour and fluxgate records, chart baselines can be deduced by comparison with the normal records or are given on the monthly sheet.

9. Example of computation of absolute values

1975 Jan 01, 1200Z
H_o etc., baselines (at
$$T_s = 0^{\circ}C$$
 for H and Z) q , temperature coefficients s , scale values n , ordinates in millimetres

H = H_o + s_Hn_H+ q_H ($T_s - (T_o + s_T n_T)$)
= 22549 + 4.34 x 13.1 + (-3.8)(0 - (22.9 + 0.55 x (-23.7)))
= 22643 γ

Z = Z_o + s_Zn_Z + q_Z ($T_s - (T_o + s_T n_T)$)
= -35074 + (-2.76) x 26.6 + 3.1(0 - (22.9 + 0.55 x (-23.7)))
= -35178 γ

D = D_o + s_Dn_D
= 16°39.4° + 0.92 x 12.9
= 16°51.3° East

Normal La Cour Busselines May 1975

Day		T	D	1.
1	22,5427	22.7°C	16039-41	-35,0867
2	11	• • • • • • • • • • • • • • • • • • •	71	7 7
3	***	* *	11	**
4	• •	71	71	71
5	† †	ŤŤ	**	* *
6	††	71	**	*1
7	**	**	**	**
8	77	ff	77	71
9	***	71	**	**
10	77	71	***	**
11	22,541γ	TT	**	77
12	***	T1	77	**
13	**	*1	71	77
14	***	1 1	77	77
15	**	71	TT	71
16	77	**	TT	-35,087 _Y
17	**	71	TT	**
18	**	t t	**	**
19	***	F f	TT	77
20	22,491γ	13.7°C	**	**
21	ŤŤ	***	***	71
22	77	**	**	**
23		TT	***	TT
24	TT	17.6°C*	TT	**
25	TT	8.5°c*	77	**
26	**	6.9°C*	11	77
27	77	7.0°C*	ŤŤ	77
28	***	7.0°C*	ŤŤ	77
29	TT	6.9°C*	TT	TT
30	73	7.0°C*	ŤŤ	ŢŢ
`3 1	77	7.0°C*	ŤŤ	51

^{*} No temperature trace. Value given is the temperature of the variometer at 00000Z.

(FORMERLY FALKLAND ISLANDS DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1975

FROM ARGENTINE ISLANDS A.973

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

ORIGINAL RECORDS HELD AT: -

1. Instruments

These are standard La Cour Variometers and an E.D.A. fluxgate magnetometer, all recording H, D and Z.

2. Time

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3. Order of Traces

From top to bottom of chart,

La Cour

		Fluxgate
Normal	Storm	
T trace (when present)	Z trace	H trace
H trace	Z baseline	Time
H baseline	T trace	D trace
T trace (when present)	H trace	Z trace
D trace	H baseline	
D baseline .	D trace	
Z trace	D baseline	
Z baseline		

4. Sense of traces

- T increases up the chart.
- H increases up the chart
- D increases easterly up the chart
- Z increases (becomes less negative) down the chart

5. Temperature Coefficients

Temperature coefficients (the ordinate, in gammas, increases with increasing temperature when the coefficient is positive) for the normal La Cour records are:-

H Jan O1 - May 19
$$-3.8 \text{ y/}^{\circ}\text{C}$$
 Z +3.1 $\text{y/}^{\circ}\text{C}$ May 20 - Jun O2, 2000Z -4.6 Jun O2 - Dec 31 -3.1

	H y/mm	1) '/mm		T OC/mm
Normal	4.34	0.92	-2.76 Jan01-Nov10, 18(X)Z -2.34 Nov10-Dec31	0.55 Jan01-May 19 0.59 May 20-Jun02, 2000Z 0.48 Jun02-Dec 31
Storm	15.6	2-31	-11.3	Not required
Fluxgate	15.2	2-18	-14.6	Not required

7- Scale of Reproduction

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

8. Baselines

Baselines for each calendar month are given on separate sheets. For the normal La Cour records, baselines at 0°C are quoted. Chart baselines must be calculated using the information given in section 5. The values given for the T baseline (H) are valid when the T trace is below H. When the upper T trace is used, subtract 91.7 mm. from the measured ordinate.

For the storm La Cour and fluxgate records, chart baselines can be deduced by comparison with the normal records or are given on the monthly sheet:

9. Example of computation of absolute values

Normal La Cour Baselines June 1975

The values of the H and T baselines varied rapidly during the period Jun 03 to Jun 12. For these dates, the values given below apply at 0000Z and values at other times can be found by interpolation.

Day	H	T	D	Z
1	22,491~	7.0°C*	16°39.5'	-35,088 _Y
2	77	6.7°C*	**	***
3	22;512;	6.9°C*	Tt	TŤ
4	22.548~	17-6°C	27	**
5	22,561~	18.7°C	**	77
6	22,570γ	19-4°C	77	***
7	22,573 _Y	20.0°C	71	77
8	22,577γ	20.4°C	***	***
9	22,580γ	20.6°C	T T	***
10	22,582γ	20.8°C	***	***
11	22,584γ	21.0°C	**	77
12	22,585 _Y	21.2°C	Tt.	77
13	22,586γ	21.3°C	***	77
14	22,587 _Y	***	***	31
15	22,588γ	21.4°C	TT	***
16	22,589γ	71	16°39.61	T1
17	22,590γ	77	77	77
18	22,591γ	21.5°C	TT	***************************************
19	****	***	tt	? †
20	22,592γ	TT	T 7	***
21	ŤŤ	21.6°C	Tt	-35,089 _Y
22	22,593γ	tt	11	***
23	***	***************************************	TT	***
24	22,594γ	****	11	***
25		11	TT	***
26		21.7°C	TT	***************************************
27	22,595γ	***	***	TT
28	T	TT	77	77
29	22,596γ	21.8°C	***************************************	***
30	· TT	***		TT

^{*} No temperature trace. Value given is the temperature of the variometer at 00000Z.

(FORMERLY FALKLAND ISLANDS DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1975

FROM ARGENTINE ISLANDS A.973

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

ORIGINAL RECORDS HELD AT: -

EXPLANATORY NOTES 1975,

1. Instruments

These are standard La Cour Variometers and an E.D.A. fluxgate magnetometer, all recording H, D and Z.

2. Time

The La Cour charts are usually changed at Greenwich midnight, so that each chart shows a complete Greenwich day.

On all La Cour records where time dots are present, the parallax correction is negligible provided that the relevant moving time dots are used, except for the insensitive D trace from Nov. 01 onwards for which a correction of -1 minute should be added to times read on the trace. On the normal La Cour records from Nov. 18 onwards, time lines are in use and corrections of +1 minute should be added to times read on the H and D traces. On the fluxgate records, a correction of -1 minute should be added to times read on the

3. Order of Traces

From top to bottom of chart,

La Cour

		Fluxgate
Normal	Storm	1142944
T trace (when present)	Z trace	H trace
H trace	Z baseline	Time
H baseline	T trace	D trace
T trace (when present)	H trace	Z trace
D trace	H baseline	
D baseline	D trace	
Z trace	D baseline	
Z baseline		

4. Sense of traces

T increases up the chart

H increases up the chart

D increases easterly up the chart

Z increases (becomes less negative) down the chart

5. Temperature Coefficients

Temperature coefficients (the ordinate, in gammas, increases with increasing temperature when the coefficient is positive) for the normal La Cour records are:-

H Jan O1 - May 19 -3.8
$$\gamma$$
°C Z +3.1 γ °C May 20 - Jun O2, 2000Z -4.6 -3.1

	11 Y/mm	ը '/տտո	L y/mm	T C/mm
Normal	4.34	0.92	-2.76 Jan01-Nov10, 1800Z -2.34 Nov10-Dec31	0.55 Jan01-May19 0.59 May20-Jun02, 20002 0.48 Jun02-Dec31
Storm	15.6	2.31	-11.3	Not required
Fluxgate	15.2	2.18	-14.6	Not required

7. Scale of Reproduction

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

8. Baselines

Baselines for each calendar month are given on separate sheets. For the normal La Cour records, baselines at 0°C are quoted. Chart baselines must be calculated using the information given in section 5. The values given for the T baseline (H) are valid when the T trace is below H. When the upper T trace is used, subtract 91.7 mm. from the measured ordinate.

For the storm La Cour and fluxgate records, chart baselines can be deduced by comparison with the normal records or are given on the monthly sheet.

9. Example of computation of absolute values

Sensitive La Cour Baselines for July 1975

Day	Ħ	T	Ŋ	Z
1	$22,596\gamma$	21.8°C	16°39.71	-35,089 _Y
2	22,597 _Y	ff	? 1	11
3	81	21.9°C	11	#1
4	***	ŧ1	11	11
5	22,598γ	11	11 1	***
6	11	22.0°C	11	-35,090y
7	Ħ	ff	77	71
8	22,599Y	22.1°C	11	71
9	11	11	71	11
10	71	tt	ŧŧ	11
11	22,600γ	22.2°C	ft	tt
12	~ 11	ŤŤ	77	11
13	ff	22.3°C	71	11
14	11	71	11	71
15	11	22.4°C	tt	77
16	ŤŤ.	.11	16°39.81	ff
17	22,601γ	71	tt	17
18	TT .	? T	71	n
19	11	22.5°C	***	n
20	***	***	TÍ	71
21	***	11	11	-35,091 _Y
22	22,602 _Y	ft	ff	71
23	***	? ?	11	11
24	***	? 1	"	11
25	11	11	11	n
26	22,603γ	22.6°C	16°39.91	11
27	n	***	tt	π
28	11	tt	et	11
29	tt	tt	17	***
30	et	77	TI	. 11
31	41	11	भा	11

(FORMERLY FALKLAND ISLANDS DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1975

FROM ARGENTINE ISLANDS A.973

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

ORIGINAL RECORDS HELD AT: -

1. Instruments

These are standard La Cour Variometers and an E.D.A. fluxgate magnetometer, all recording H, D and Z.

2. Time

The La Cour charts are usually changed at Greenwich midnight, so that each chart shows a complete Greenwich day.

On all La Cour records where time dots are present, the parallax correction is negligible provided that the relevant moving time dots are used, except for the insensitive D trace from Nov. 01 onwards for which a correction of -1 minute should be added to times read on the trace. On the normal La Cour records from Nov. 18 onwards, time lines are in use and corrections of +1 minute should be added to times read on the H and D traces. On the fluxgate records, a correction of -1 minute should be added to times read on the

3. Order of Traces

From top to bottom of chart,

La Cour			
Normal	Storm	Fluxgate	
T trace (when present)	Z trace	.H trace	
H trace	Z baseline	Time	
H baseline	T trace	D trace	
T trace (when present)	H trace ~	Z trace	
D trace	H baseline		
D baseline	D trace		
Z trace	D baseline		

4. Sense of traces

Z baseline

- T increases up the chart
- H increases up the chart
- D increases easterly up the chart
- Z increases (becomes less negative) down the chart

5. Temperature Coefficients

Temperature coefficients (the ordinate, in gammas, increases with increasing temperature when the coefficient is positive) for the normal La Cour records are:-

H Jan 01 - May 19 -3.8
$$\gamma$$
/°C Z +3.1 γ /°C May 20 - Jun 02, 2000Z -4.6
Jun 02 - Dec 31 -3.1

	H y/mm	D ,\max	Z y/mm	T OC/mm
Normal	4.34	0.92	-2.76 JanO1-Nov1O, 1800Z -2.34 Nov10-Dec31	0.55 Jan01-May19 0.59 May20-Jun02, 2000Z 0.48 Jun02-Dec31
Storm	15.6	2.31	-11.3	Not required
Fluxgate	15.2	2.18	-14.6	Not required

7. Scale of Reproduction

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

8. Baselines

Baselines for each calendar month are given on separate sheets. For the normal La Cour records, baselines at 0°C are quoted. Chart baselines must be calculated using the information given in section 5. The values given for the T baseline (H) are valid when the T trace is below H. When the upper T trace is used, subtract 91.7 mm. from the measured ordinate.

For the storm La Cour and fluxgate records, chart baselines can be deduced by comparison with the normal records or are given on the monthly sheet.

9. Example of computation of absolute values

Sensitive La Cour Baselines for August 1975

Day		T	D	2
1	22,603γ	22.7°C	16039.91	-35,091 _Y
2	**	**	**	••
3	***	31	TT	***
4	***	**	**	**
5	***	71	***	***
6	22,604γ	**	***	77
7	? †	\$1	TŢ	***
8	**	***	**	**
9	**	71	77	***
10	***	**	77	77
11	**	***	16°40.0°	-35,092 _Y
12	***	*1	TT	***
13	**	***	77	***
14	TI	*1	***	ŤŤ
15	***	7 1	***	ît
16	tt	***	**	***
17	***	* 1	TT	***
18	***	T	***	***
19	tt	T 1	TT	***
20	***	31	***	***
21	***	T T	***************************************	ŤĬ
22	TT	77	***	***
23	***	TT	**	***
24	***	77	77	77
25	***	11	TT	***
26	***	T	16040.1	-35.093Y
27	77	97	ÎŤ	***
28	TT	11	***	***
29	***	T	11	***
30	***	T T	ŤŤ	**
31	**	T1	***	***

(FORMERLY FALKLAND ISLANDS DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1975

FROM ARGENTINE ISLANDS A.973

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

ORIGINAL RECORDS HELD AT: -

1. Instruments

These are standard La Cour Variometers and an E.D.A. fluxgate magnetometer, all recording H, D and Z.

2. Time

The La Cour charts are usually changed at Greenwich midnight, so that each chart shows a complete Greenwich day.

On all La Cour records where time dots are present, the parallax correction is negligible provided that the relevant moving time dots are used, except for the insensitive D trace from Nov. O1 onwards for which a correction of -1 minute should be added to times read on the trace. On the normal La Cour records from Nov. 18 onwards, time lines are in use and corrections of +1 minute should be added to times read on the H and D traces. On the fluxgate records, a correction of -1 minute should be added to times read on the

3. Order of Traces

From top to bottom of chart,

La Cour

		Fluxgate
Normal	Storm	
T trace (when present)	Z trace	H trace
`H trace	Z baseline	Time
H baseline	T trace	D trace
T trace (when present)	H trace	Z trace
D trace ;	H baseline	
D baseline	D trace	
Z trace	D baseline	
Z baseline		

4. Sense of traces

- T increases up the chart
- H increases up the chart
- D increases easterly up the chart
- Z increases (becomes less negative) down the chart

5. Temperature Coefficients

Temperature coefficients (the ordinate, in gammas, increases with increasing temperature when the coefficient is positive) for the normal La Cour records are:-

H Jan 01 - May 19 -3.8
$$\gamma$$
°C Z +3.1 γ °C May 20 - Jun 02, 2000Z -4.6 -3.1

	H y/mm	D '/mm		T ()
Normal	4.34	0.92	-2.76 Jan01-Nov10, 18002 -2.34 Nov10-Dec31	0.55 Jan01-May19 0.59 May20-Jun02, 2000Z 0.48 Jun02-Dec31
Storm	15.6	2.31	-11.3	Not required
Fluxgate	15.2	2.18	-14.6	Not required

7. Scale of Reproduction

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

8. Baselines

Baselines for each calendar month are given on separate sheets. For the normal La Cour records, baselines at 0°C are quoted. Chart baselines must be calculated using the information given in section 5. The values given for the T baseline (H) are valid when the T trace is below H. When the upper T trace is used, subtract 91.7 mm. from the measured ordinate.

For the storm La Cour and fluxgate records, chart baselines can be deduced by comparison with the normal records or are given on the monthly sheet.

9. Example of computation of absolute values

Sensitive La Cour Baselines for September 1979,

Day	11	T	D	2
1	22,604γ	22.7°C	16040.1	-35,093y
2	***	77	**	*1
3	***	11	71	77
4	**	71	**	71
5	77	77	71	***
6	***	***	16°40.2'	TT
7	***	Tİ	71	71
8	***	***	*1	71
9	***	***	91	71
10		71	***	***
11	***	TT	T 1	-35,094y
12	***	77	T 1	TT
13	**	71	71	t t
14	71	TT	***	77
15		***	71	77
16	22,605γ	72.	16°40-3°	77
17		77	***	17 .
18	**	TT	***	***
19	***	77	****	***
20		***	***	***
21	21	***	11	††
22	***	***		TT
23	`#1	TT	11	***
24		***	31	TT
25	11 ,	TT	***	***************************************
26	***	77	TT	***
27	***	***	***	71
28	T T	Ťī	***	TŤ
29	77	***	***	TT
30	***************************************	***	***	TT

(FORMERLY FALKLAND ISLANDS DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1975

FROM ARGENTINE ISLANDS A.973

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

ORIGINAL RECORDS HELD AT: -

1. Instruments

These are standard La Cour Variometers and an E.D.A. fluxgate magnetometer, all recording H, D and Z.

2. Time

The La Cour charts are usually changed at Greenwich midnight, so that each chart shows a complete Greenwich day.

On all La Cour records where time dots are present, the parallax correction is negligible provided that the relevant moving time dots are used, except for the insensitive D trace from Nov. 01 onwards for which a correction of -1 minute should be added to times read on the trace. On the normal La Cour records from Nov. 18 onwards, time lines are in use and corrections of +1 minute should be added to times read on the H and D traces. On the fluxgate records, a correction of -1 minute should be added to times read on the

3. Order of Traces

From top to bottom of chart,

La	Cour

		Fluxgate	
Normal	Storm		
T trace (when present)	Z trace	H trace	
H trace .	Z baseline	Time	
H baseline	T trace	D trace	
T trace (when present)	H trace	Z trace	
D trace	H baseline		
D baseline	D trace		
Z trace	D baseline		
Z baseline			

4. Sense of traces

- T increases up the chart
- H increases up the chart
- D increases easterly up the chart
- Z increases (becomes less negative) down the chart

5. Temperature Coefficients

Temperature coefficients (the ordinate, in gammas, increases with increasing temperature when the coefficient is positive) for the normal La Cour records are:-

H Jan O1 - May 19
$$-3.8 \text{ y/}^{\circ}\text{C}$$
 Z +3.1 y/ $^{\circ}\text{C}$ May 20 - Jun O2, 2000Z -4.6
Jun O2 - Dec 31 -3.1

	H y/man	D '/mm	Z y/men	T OC/mm
Normal	4-34	0.92	-2.76 JanO1-Nov10, 1800Z -2.34 Nov10-Dec31	0.55 Jan01-May19 0.59 May20-Jun02, 2000Z 0.48 Jun02-Dec31
Storm	15.6	2.31	-11.3	Not required
Fluxgate	15.2	2.18	-14.6	Not required

7. Scale of Reproduction

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

8. Baselines

Baselines for each calendar month are given on separate sheets. For the normal La Cour records, baselines at 0°C are quoted. Chart baselines must be calculated using the information given in section 5. The values given for the T baseline (H) are valid when the T trace is below H. When the upper T trace is used, subtract 91.7 mm. from the measured ordinate.

For the storm La Cour and fluxgate records, chart baselines can be deduced by comparison with the normal records or are given on the monthly sheet.

9. Example of computation of absolute values

1975—Jan O1, 1200Z. Ho etc., baselines (at
$$T = 0^{\circ}C$$
 for H and Z) q , temperature coefficients s , scale values n , ordinates in millimetres

H = H₀ + $s_{H}n_{H}$ + q_{H} - $(T_{S} - (T_{O} + s_{T}n_{T}))$
= 22549 + 4.34 x 13.1 + (-3.8)(0 - (22.9 + 0.55 x (-23.7)))
= 22643 γ

Z = Z_O + $s_{T}n_{T}$ + q_{T} ($T_{S} - (T_{O} + s_{T}n_{T})$)
= -35074 + (-2.76) x 26.6 + 3.1(0 - (22.9 + 0.55 x (-23.7)))
= -35178 γ

D = D_O + s_{D} + s_{D} D_O = 16°39.4° + 0.92 x 12.9
= 16°51.3° East

Sensitive La Cour Baselines for October, 1975

Day	H	T	D	Z
1	22,605 _Y	22.7°C	16°40.4	-35,095 _Y
2	**	**	ft	27
3	11	***	***	77
4	**	11	ft	Tt
5	***	,33 ,	73	ff
6	22,606γ	***	**	TT
7	71	**	71	TT
8	73	TT	****	**
9	77	77	***	11
10	**	77	***	***
11	Pt	22.8°C	16°40-5'	***
12	***	81	77	tt
13	Tt	T	***	77
14	II	77	***************************************	71
15	TT	***	77	***
16	TT	TT	TT	-35,096 _Y
17	***	'tt'	TT	***
18	11	***	**	***
19	***	*1		ŤŤ
20	÷ T †	***	***	71
21	TT	77	***	***
22	TT	77	***	TT
23	**	-11	77	***
24	***	ft	***************************************	71
25	77	TT	***	71
26	22,607	***	16°40.6°	77
27	***	TT	***	77
28	**	tt	***	TT .
29	***	TT	***	TT
30	***************************************	***	TT	tt
31	***	77	**	Tt

(FORMERLY FALKLAND ISLANDS DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1975

FROM ARGENTINE ISLANDS A.973

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

ORIGINAL RECORDS HELD AT: -

1. Instruments

These are standard La Cour Variometers and an E.D.A. fluxgate magnetometer, all recording H, D and Z,

2. Time

The La Cour charts are usually changed at Greenwich midnight, so that each chart shows a complete Greenwich day.

On all La Cour records where time dots are present, the parallax correction is negligible provided that the relevant moving time dots are used, except for the insensitive D trace from Nov. O1 onwards for which a correction of -1 minute should be added to times read on the trace. On the normal La Cour records from Nov. 18 onwards, time lines are in use and corrections of +1 minute should be added to times read on the H and D traces. On the fluxgate records, a correction of -1 minute should be added to times read on the H trace.

3. Order of Traces

From top to bottom of chart,

La	Cour

		Fluxgate	
Normal	Storm		
T trate (when present)	Z trace	H trace	
H trace	Z baseline	Time	
H baseline	T trace	D trace	
T trace (when present)	H trace	Z trace	
D trace	H baseline		
D baseline	D trace		
Z trace	D baseline		
Z baseline			

4. Sense of traces

T increases up the chart

H increases up the chart

D increases easterly up the chart

Z increases (becomes less negative) down the chart

5. Temperature Coefficients

Temperature coefficients (the ordinate, in gammas, increases with increasing temperature when the coefficient is positive) for the normal La Cour records are:-

H Jan O1 - May 19 -3.8
$$\gamma$$
/°C Z +3.1 γ /°C May 20 - Jun O2, 2000Z -4.6 Jun O2 - Dec 31 -3.1

	H Y/==	D '/mm	Z y/mm	T OC/mm
Normal	.4-34	Q.92	-2.76 Jan01-Nov10, 1800Z -2.34 Nov10-Dec31	0.55 Jan01-May19 0.59 May20-Jun02, 2000Z 0.48 Jun02-Dec31
Storm	15.6	2.31	-11.3	Not required
Fluxgate	15.2	2.18	-14.6	Not required

7. Scale of Reproduction

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

8. Baselines

Baselines for each calendar month are given on separate sheets. For the normal La Cour records, baselines at 0°C are quoted. Chart baselines must be calculated using the information given in section 5. The values given for the T baseline (H) are valid when the T trace is below H. When the upper T trace is used, subtract 91.7 mm. from the measured ordinate.

For the storm La Cour and fluxgate records, chart baselines can be deduced by comparison with the normal records or are given on the monthly sheet.

9. Example of computation of absolute values

1975 Jan 01, 1200Z' H etc., baselines (at
$$T_s = 0^{\circ}C$$
 for H and Z) q , temperature coefficients s , scale values q , ordinates in millimetres

H = H_o + $s_H n_H + q_H$ ($T_s - (T_o + s_T n_T)$)

= 22549 + 4.34 x 13.1 + (-3.8)(0 - (22.9 + 0.55 x (-23.7)))

= 22643 γ

Z = Z_o + $s_Z n_Z + q_Z$ ($T_s - (T_o + s_T n_T)$)

= -35074 + (-2.76) x 26.6 + 3.1(0 - (22.9 + 0.55 x (-23.7)))

= -35178 γ

D = D_o + $s_D n_D$

= 16°39.4' + 0.92 x 12.9

= 16°51.3' East

Sensitive La Cour Baselines for November, 1975

Day	H	T	D	Z
1	22,607Y	22.9°C	16°40.6'	-35,097Y
2	11	*1	11	*1
3	†f	71	11	tt
L _k	tt	71	78	11
5	††	11	77	11
6	71	ŤĪ	***	tt
7	t1	71	Ħ	21 -
8	22,569 _Y	11	16024.31	71
9	11	tt	TT .	Ħ
10	Ħ	ff	71	-35,062 _Y , 1800Z.
11	Ħ	tt	TT	***
12	Ħ	71	T T	***
13	11	11	TT	11
14	71	11	71	ŢĬ
15	11 '	11	I I	11
16	77	23.0°C	Ħ	11
17	71	Ħ	11	TT .
18	11,	·u	11	*1 ·
19	tt	ŧf	***	Ħ
20	77	11	77	***
21	11	tt	16°24.2'	***
22	11-	tt	71	TT.
23	τt	77	77	1 1
24	Ħ	Ħ	π	11 ~
25	ŧı	11	TT	11
26	22,570 _Y	n	11	11
27	11	11	***	tt
28	71	11	n	` 'YI
29	TÎ	71	11	TT
30	tt	11	Ħ	rt .

(FORMERLY FALKLAND ISLANDS DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1975

FROM ARGENTINE ISLANDS A.973

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

ORIGINAL RECORDS HELD AT: -

1. Instruments

These are standard La Cour Variometers and an E.D.A. fluxgate magnetometer, all recording H, D and Z.

2. Time

The La Cour charts are usually changed at Greenwich midnight, so that each chart shows a complete Greenwich day.

On all La Cour records where time dots are present, the parallax correction is negligible provided that the relevant moving time dots are used, except for the insensitive D trace from Nov. 01 onwards for which a correction of -1 minute should be added to times read on the trace. On the normal La Cour records from Nov. 18 onwards, time lines are in use and corrections of +1 minute should be added to times read on the H and D traces. On the fluxgate records, a correction of -1 minute should be added to times read on the

3. Order of Traces

From top to bottom of chart,

La Cour

Storm				
Z trace	H trace			
Z baseline	Time			
T trace	D trace			
H trace	Z trace			
H baseline				
D trace				
D baseline				
	Z trace Z baseline T trace H trace H baseline D trace			

4. Sense of traces

- T increases up the chart
- H increases up the chart
- D increases easterly up the chart
- Z increases (becomes less negative) down the chart

5. Temperature Coefficients

Temperature coefficients (the ordinate, in gammas, increases with increasing temperature when the coefficient is positive) for the normal La Cour records are:-

H Jan 01 - May 19 -3.8
$$\gamma$$
/°C Z +3.1 γ /°C May 20 - Jun 02, 2000Z -4.6 Jun 02 - Dec 31 -3.1

	H y/mm	D '/mm	L Y/	T OC/
Normal	4.34	0.92	-2.76 Jan01-Nov10, 1800Z -2.34 Nov10-Dec31	0.55 Jan01-May19 0.59 May20-Jun02, 2000Z 0.48 Jun02-Dec31
Storm	15.6	2.31	-11.3	Not required
Fluxgate	15.2	2.18	-14.6	Not required

7. Scale of Reproduction

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

8. Baselines

Baselines for each calendar month are given on separate sheets. For the normal La Cour records, baselines at 0°C are quoted. Chart baselines must be calculated using the information given in section 5. The values given for the T baseline (H) are valid when the T trace is below H. When the upper T trace is used, subtract 91.7 mm. from the measured ordinate.

For the storm La Cour and fluxgate records, chart baselines can be deduced by comparison with the normal records or are given on the monthly sheet.

9. Example of computation of absolute values

Sensitive La Cour Baselines for December, 1975

Day	H	T	D	Z
1	22,570 _Y	23.0°C	16°24.2"	-35,062 _Y
2	11	16	11	*1
3	***	11	71	71
4	33	71	***	71
5	11	71	ŧī	Ħ
6	11	23.1°C	16°24.1"	***
7	n	Ħ	TT .	11
8	ŧ	ŧτ	11	11
9	ft	27	rr -	ŧī
10	***	ŧŧ	77	11
11	22,571γ	Ħ	ft	11
12	Ħ	***	Ħ	ff
13	21	n	77	11
14	11	Ħ	***	tt
15	Ħ	11	n	n
16	11	Ħ	11	Ħ
17	11	Ħ	11	n
18	***	11	11	Ħ
19	***	77	***	11
20	11	tt	11	11
21	· ?1	23.2°C	16°24.0'	11
22	11	Ħ	n	n
23	n	Ħ	tt	Ħ
23 24	n	Ħ	Ħ	Ħ
	11	Ħ	11	n
25 26	22,572 _Y	77	11	71
27	11	n .	11	11
28	Ħ	11	TÎ ·	11
29	11	π	tt	11
	11	11	11	π
30 31	Ħ	τf	11	11