

BRITISH ANTARCTIC SURVEY
(Formerly Falkland Islands Dependencies Survey)

MAGNETIC RECORDS FOR 1979 FROM
ARGENTINE ISLANDS A 973

LATITUDE -65° 15'
LONGITUDE 64° 16'W
GEOMAGNETIC LATITUDE -53.8°
GEOMAGNETIC LONGITUDE 3.3°

Original records held at:

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ARGENTINE ISLANDS, 1979.

Explanatory Notes to Magnetograms.

1) Instruments.

These are normal sensitivity La Cour Variometers, low sensitivity La Cour Variometers, and an E.D.A. Fluxgate Magnetometer. All the instruments record H, D, and Z.

Where possible the normal record has been filmed; but, where the normal record is confused or missing, the fluxgate record and occasionally the low sensitivity ('storm') La Cour record has been filmed.

A 50mm scale is reproduced with each chart.

2) Time.

All times are given in UTC.

The La Cour charts are changed daily at 24.00 UTC so that each chart shows a complete day. The time marks on all the charts are controlled by a crystal clock.

Most of the La Cour charts have one or more time gaps from which the parallax correction for that chart may be deduced. Parallax corrections for other La Cour charts may be deduced by comparison with neighbouring charts. Parallax corrections for the Fluxgate charts can usually be deduced by comparison with the equivalent La Cour Chart.

3) Order of Traces.

The traces on all the charts are labelled as follows:

H_t	H Temperature Trace,
H	H Trace,
H_o	H Baseline,
D	D Trace,
D_o	D Baseline,
Z	Z Trace,
Z_o	Z Baseline,
Z_t	Z Temperature Trace.

This is also the normal order of the traces on the Normal La Cour Records, but the location of the Z_t trace changes from time to time, and there is occasionally a second H_t trace. The lower of the two H_t -traces is usually used for temperature measurements.

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4) Sense of Traces

The three types of recorder are arranged so that the senses of equivalent traces are the same, i.e.:

- H_t increases up the charts
- H increases up the charts
- D increases Easterly up the charts
- Z_t increases up the charts
- Z increases down the charts, becoming less negative

5) Temperature Coefficients

All the normal La Cour baselines are quoted at 0°C. The temperature coefficients, q, of the normal La Cour variometers are:

	q_h	q_z
0000 Jan 01 - 2400 Jul 20	-1.4 $\gamma/^{\circ}\text{C}$	+2.8 $\gamma/^{\circ}\text{C}$
0000 Jul 21 - 2400 Dec 31	-1.3 $\gamma/^{\circ}\text{C}$	+2.6 $\gamma/^{\circ}\text{C}$

The scale values, s_t , of the temperature traces of the normal La Cour charts are:

	H	Z
0000 Jan 01 - 2400 Mar 18	0.42 $^{\circ}\text{C}/\text{mm}$	(not determined)
0000 Mar 19 - 2400 Jul 20	0.42 $^{\circ}\text{C}/\text{mm}$	0.50 $^{\circ}\text{C}/\text{mm}$
0000 Jul 21 - 2400 Dec 31	0.43 $^{\circ}\text{C}/\text{mm}$	0.50 $^{\circ}\text{C}/\text{mm}$

The values of the temperature baselines H_0 and Z_0 for the normal La Cours are given below. Where two H temperature traces appear, the lower one should be used.

	H_0 ($^{\circ}\text{C}$)	Z_0 ($^{\circ}\text{C}$)
0000 Jan 01 - 2035 Mar 12	+14.8	-
2215 Mar 12 - 2400 Mar 18	+16.2	-
0930 Mar 19 - 1750 Mar 24	+17.8	-7.3
0000 Mar 25 - 1930 Mar 27	+15.3	-7.3
2230 Mar 27 - 1940 Mar 29	+15.3	-
2110 Mar 29 - 1858 Apr 19	+15.3	+14.3
2030 Apr 19 - 1730 Jun 12	+15.3	+10.5
2309 Jun 12 - 1834 Dec 05	+12.9	+10.5
2335 Dec 05 - 1711 Dec 24	+3.7	+10.5
2220 Dec 24 - 1650 Dec 26	+17.4	+10.5
2100 Dec 26 - 2400 Dec 31	+10.5	+10.5

No temperature corrections are required for the EDA fluxgate or Storm La Cours.

6) Scale Values

	H (γ/mm)	D (γ/mm)	Z (γ/mm)
0000 Jan 01 - 2400 Feb 28	4.47	0.93	-2.65
0000 Mar 01 - 2400 Apr 30	4.47	0.93	-2.56
0000 May 01 - 2400 Dec 31	4.46	0.93	-2.56

Fluxgate

All year	5.5	0.9	-5.8
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Storm La Cours

All year	15.5	2.36	-10.5
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7) La Cour Baselines

The baselines quoted are corrected to 0°C

	H
0000 Jan 01 - 2110 Mar 10	22262
2210 Mar 12 - 2400 Mar 18	22252
0730 Mar 19 - 1750 Mar 24	22264
0000 Mar 25 - 1750 Jun 12	22240
2310 Jun 12 - 1700 Jul 18	22253
0000 Jul 21 - 2400 Aug 06	22257
0000 Aug 07 - 2400 Aug 25	22258
0000 Aug 26 - 2400 Sep 13	22259
0000 Sep 14 - 2400 Oct 09	22260
0000 Oct 10 - 2400 Oct 31	22261
0000 Nov 01 - 2400 Nov 24	22262
0000 Nov 25 - 1830 Dec 05	22263
2335 Dec 05 - 1740 Dec 06	22282
1800 Dec 06 - 1710 Dec 24	22308
2200 Dec 24 - 1650 Dec 26	22272
2100 Dec 26 - 2400 Dec 31	22307

* Note from 1700 on July 18 to 2400 on July 20 rapid temperature changes make accurate baseline calculations unreliable even using quoted temperature coefficients. Detailed information is available from the British Antarctic Survey address on the title page.

Jan 01 - Jan 09	16° 18.7' East
Jan 10 - Jan 31	16° 15.7' East
Feb 01 - Feb 28	16° 15.8' East
Mar 01 - Apr 30	16° 15.9' East
May 01 - May 31	16° 16.1' East
Jun 01 - Jun 30	16° 16.3' East
Jul 01 - Dec 31	16° 16.5' East

Starting at 0000 and finishing at 2400 in each case.

	<u>Z (γ)</u>
0000 Jan 01 - 2400 Mar 06	-34798
0100 Mar 07 - 2400 Mar 10	-34824
0000 Mar 11 - 2400 Mar 18	-34820
0800 Mar 19 - 1900 Mar 27	-34734
2300 Mar 27 - 1900 Mar 29	-34767
2200 Mar 29 - 1900 Apr 19	-34828
2100 Apr 19 - 2400 May 01	-34764
0000 May 02 - 2400 May 09	-34765
0000 May 10 - 2400 May 17	-34766
0000 May 18 - 2400 May 25	-34767
0000 May 26 - 2400 Jun 02	-34768
0000 Jun 03 - 2400 Jun 10	-34769
0000 Jun 11 - 2400 Jun 18	-34770
0000 Jun 19 - 2400 Jun 26	-34771
0000 Jun 27 - 2400 Jul 04	-34772
0000 Jul 05 - 2400 Jul 12	-34773
0000 Jul 13 - 2400 Jul 20	-34774
0000 Jul 21 - 2400 Jul 28	-34775
0000 Jul 29 - 2400 Aug 05	-34776
0000 Aug 06 - 2400 Aug 13	-34777
0000 Aug 14 - 2400 Oct 31	-34778
0000 Nov 01 - 2400 Nov 30	-34779
0000 Dec 01 - 2400 Dec 31	-34780

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8) K-Indices

Definitive K-indices for each month follow that month's magnetograms.

9) Examples of computation of absolute values

May 02, 1200 UTC

H₀, etc are baselines at 0°C

n_h etc are the ordinates in mm.

all other notation as defined in earlier sections of these notes.

$$\begin{aligned}
 H &= H_0 + S_h * n_h - q_h * (H_{t0} + s_t * n_t) \\
 &= 22241 + (4.46 * 37.4) - (-1.4) * (15.3 + (0.42 * -24.5)) \\
 &= 22241 + 166.8 - (-1.4) * 4.91 \\
 &= 22241 + 166.8 + 6.87 \\
 &= 22415\gamma
 \end{aligned}$$

$$\begin{aligned}
 D &= D_0 + s_d * n_d \\
 &= 16° 17.1' + (0.93 * 38.8) \\
 &= 16° 17.0' + 36.1' \\
 &= 16° 53.1' East
 \end{aligned}$$

$$\begin{aligned}
 Z &= Z_0 + s_z * n_z - q_z * (Z_{t0} + s_t * n_t) \\
 &= -34766 + (-2.56 * 34.9) - 2.8(10.5 + (0.5 * -11.8)) \\
 &= -34766 + (-89.3) - 2.8 * 4.6 \\
 &= -34766 - 89.3 - 12.9 \\
 &= -34868\gamma
 \end{aligned}$$

197: JANUARY ACCEPTANCE TRIALS

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

[illegible]

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

1970	APRIL								APRIL								TIME								TSI								APRIL								TIME							
1	3	4	2	2	3	2	2	4	5	5	2	2	4	2	2	6	5	5	2	2	4	2	2	6	20	2	3	4	2	2	3	2	2	4	5	5	2	2	4	2	2	6	27					
3	5	1	3	2	2	3	4	6	4	4	7	2	3	4	4	6	4	4	3	2	3	4	4	6	30	4	5	6	3	3	1	1	1	6	5	5	6	3	3	1	1	1	26					
5	5	4	4	5	5	4	3	3	3	3	5	5	4	2	1	5	5	4	4	5	5	4	7	3	33	6	3	2	1	2	1	2	2	3	4	3	1	2	2	2	18							
7	2	1	2	1	2	1	1	1	2	3	3	2	1	1	1	4	2	3	3	2	1	1	1	4	17	8	3	2	1	1	1	2	2	3	4	3	2	2	1	1	2	2	16					
9	3	4	1	1	1	1	1	1	4	3	1	2	1	1	2	2	4	4	1	1	1	1	1	1	14	10	1	4	3	1	1	1	2	2	1	1	2	2	1	1	2	16						
11	2	1	1	2	2	1	1	1	2	2	2	1	1	1	2	2	2	1	1	1	1	1	1	1	7	12	1	2	3	1	2	1	4	1	2	3	2	1	2	4	18							
13	2	2	2	1	2	2	2	2	2	1	2	3	2	2	2	1	2	2	2	2	2	2	2	17	14	2	2	2	2	1	2	2	2	3	2	2	2	4	2	2	2	17						
15	4	2	1	1	1	2	2	2	4	3	1	2	3	3	2	2	4	3	1	2	3	3	2	20	16	3	4	2	2	1	1	2	1	4	5	3	2	2	1	1	2	20						
17	3	1	3	2	1	2	2	2	3	1	2	2	2	2	2	3	3	1	3	2	2	2	2	17	18	3	2	1	2	2	2	2	2	2	2	2	2	2	2	2	11							
19	1	3	2	1	2	2	1	1	1	2	2	2	2	2	1	2	1	3	2	1	2	2	2	10	20	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1							
21	1	2	3	2	1	2	2	4	2	1	3	2	2	2	3	6	1	2	3	2	2	2	3	21	22	5	5	3	3	2	4	3	3	5	4	5	2	4	3	4	30							
23	4	4	3	2	3	2	1	1	5	5	3	3	3	2	1	1	5	5	3	3	3	2	1	23	24	4	4	3	1	1	1	1	2	3	4	4	3	1	1	1	2	21						
25	7	5	6	6	5	2	3	5	6	6	7	7	6	3	3	5	7	6	7	7	6	3	3	44	26	4	3	1	1	2	1	2	3	5	4	1	1	2	3	17								
27	2	3	2	2	2	3	3	5	4	4	2	3	3	3	3	6	4	4	2	3	3	3	3	28	28	4	4	4	4	2	1	3	4	5	4	4	4	2	1	3	4	26						
29	4	4	5	3	3	3	4	4	5	5	6	4	3	2	3	4	5	5	6	4	3	3	4	34	30	4	4	3	3	3	2	2	1	5	5	5	4	3	2	2	1	27						

1070 WAY	ARCHITECTURE								TOTALS																
1	4	3	2	1	1	1	0	4	5	11	11	7	0	1	1	11	5	11	11	2	0	1	2	11	25
2	4	11	3	1	1	1	0	1	4	11	7	0	1	1	1	11	4	4	3	0	1	1	0	1	18
3	2	0	1	1	1	0	1	3	3	7	0	1	0	0	0	1	7	3	1	1	0	0	1	7	14
4	2	1	1	1	0	1	2	3	3	0	0	1	0	0	1	4	3	1	1	1	0	0	0	4	12
5	2	0	2	0	1	1	1	0	0	0	1	0	1	1	1	0	0	0	0	2	1	1	1	0	11
6	0	1	1	1	1	0	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	1	0	1	8
7	2	1	1	2	0	2	2	2	1	7	1	0	0	0	1	1	0	1	1	2	0	2	0	0	14
8	0	1	3	2	0	0	1	2	0	1	3	0	0	0	0	1	0	1	3	0	0	1	0	0	9
9	1	0	3	2	0	2	3	2	0	0	0	7	0	0	3	0	1	0	3	3	0	0	7	0	18
10	1	0	1	0	1	1	1	1	0	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	8
11	2	0	4	2	2	2	2	3	0	0	11	3	3	0	0	0	0	0	4	3	3	0	0	3	21
12	3	1	1	0	1	1	0	1	3	0	0	0	1	1	1	1	3	0	0	0	1	1	1	1	13
13	1	1	0	1	0	1	1	0	1	1	0	1	1	0	1	0	1	1	0	1	1	1	1	0	8
14	2	0	2	2	1	2	1	2	0	0	1	0	1	1	1	2	2	0	0	2	1	2	1	0	14
15	2	0	3	1	1	1	1	2	0	11	3	2	0	2	1	2	2	4	3	0	0	2	1	0	18
16	2	2	2	0	0	0	0	0	3	3	0	1	0	0	0	0	3	3	0	1	0	0	0	0	9
17	1	1	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	5
18	1	0	0	0	0	1	2	4	0	5	0	1	1	0	0	4	1	0	0	1	1	1	0	4	10
19	4	4	2	3	2	1	0	4	4	4	11	11	11	1	2	4	4	4	4	4	4	1	0	4	27
20	3	4	2	2	1	1	0	3	3	4	3	0	0	0	0	2	3	4	3	0	0	1	2	3	20
21	1	0	2	1	2	0	3	3	0	1	0	1	2	2	3	3	1	1	0	1	0	0	7	3	15
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23	3	3	1	0	1	0	3	3	4	3	3	0	0	0	0	3	4	3	3	0	1	0	3	3	17
24	4	0	4	2	3	0	3	4	4	11	5	4	3	0	3	5	4	4	6	4	3	0	3	5	21
25	4	4	3	0	3	3	4	3	4	5	4	3	3	0	4	4	4	4	4	3	3	3	4	4	20
26	4	3	3	0	2	7	0	0	5	11	11	0	7	0	0	0	5	4	4	0	3	7	0	0	25
27	3	4	4	3	1	1	0	2	4	7	4	11	0	2	1	2	4	4	4	4	0	0	0	0	24
28	3	0	1	0	1	1	0	3	4	0	1	0	1	1	2	0	4	2	1	0	1	1	0	3	14
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30	3	3	2	1	0	1	0	0	2	4	2	0	0	0	0	0	3	4	2	1	0	1	0	0	11
31	0	0	0	1	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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3	1	1	1	1	1	1	1	1	3	2	1	1	1	1	1	1	2	3	1	1	1	1	1	2	14	
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12	3	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	12	
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14	2	1	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	14	
15	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	11	
16	2	2	2	1	1	1	1	1	2	2	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11	
19	4	4	2	3	2	1	1	4	4	11	11	11	11	1	1	4	4	4	4	4	4	1	1	1	1	17
20	3	4	2	2	1	1	1	3	3	1	1	1	1	1	1	1	3	4	3	1	1	1	1	1	1	
21	1	1	2	1	2	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15	
22	5	4	4	4	1	1	1	4	6	5	5	5	1	1	1	1	6	5	5	5	1	1	1	1	1	25
23	3	2	1	1	1	1	1	4	4	2	1	1	1	1	1	1	4	2	2	1	1	1	1	1	1	17
24	4	1	4	2	3	1	1	4	4	11	11	11	11	1	1	1	4	4	4	4	4	1	1	1	1	21
25	4	1	3	1	2	1	1	3	4	1	1	1	1	1	1	1	4	4	4	3	3	3	1	1	1	11
26	4	2	2	1	2	1	1	2	5	11	11	1	1	1	1	1	5	4	4	1	2	1	1	1	1	11
27	3	1	1	2	1	1	1	2	4	2	1	1	1	1	1	1	4	4	4	4	1	1	1	1	1	11
28	3	1	1	1	1	1	1	2	4	1	1	1	1	1	1	1	4	2	1	1	1	1	1	1	1	14
29	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11
30	3	3	2	1	1	1	1	1	2	1	1	1	1	1	1	1	3	4	2	1	1	1	1	1	1	11
31	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

1970 JULY				ARGENTINE				ISLANDS																
1	2	2	2	1	0	0	0	1	2	2	2	0	0	0	0	2	2	2	0	0	0	1	10	
2	2	1	0	0	0	0	0	0	2	1	0	0	0	0	0	3	1	0	0	0	0	0	4	
3	0	0	2	2	1	1	2	2	0	0	2	2	1	1	2	0	0	2	3	2	1	2	2	12
4	3	2	2	1	0	0	0	1	2	5	4	1	0	0	0	3	5	4	1	0	0	0	1	14
5	0	2	2	2	1	1	2	1	0	2	2	2	0	2	1	0	2	2	2	1	2	2	1	12
6	1	1	2	2	1	1	4	2	0	1	2	2	1	2	2	1	1	2	2	1	4	2	12	
7	4	2	2	2	2	2	2	1	4	2	2	2	5	4	2	0	4	2	2	5	4	2	1	24
8	2	2	1	2	1	1	1	2	2	2	2	2	1	1	0	2	2	2	2	1	1	1	2	12
9	1	1	0	0	0	1	0	1	0	2	1	1	1	0	0	0	1	2	1	1	1	0	1	9
10	0	2	0	0	1	0	1	1	0	2	0	0	1	0	1	1	0	3	0	0	1	0	1	6
11	0	1	2	1	0	0	0	0	0	1	0	2	0	0	0	0	0	1	2	2	0	0	0	5
12	0	1	0	0	1	2	2	1	0	0	0	0	0	1	1	1	0	1	0	0	1	2	1	7
13	3	2	2	2	3	2	1	0	2	2	2	2	1	1	0	3	2	3	3	2	2	1	0	10
14	2	2	1	1	1	1	2	3	2	2	0	1	1	0	2	2	3	2	1	1	1	2	2	16
15	3	2	2	2	1	1	2	2	2	4	4	2	1	1	2	2	3	4	4	2	1	1	2	20
16	3	2	2	1	0	0	1	2	4	2	2	2	0	0	1	2	4	2	2	0	0	1	2	16
17	2	4	2	2	3	2	1	4	2	2	0	2	1	1	1	2	3	4	2	2	2	1	4	22
18	4	2	2	2	2	2	2	2	5	2	4	2	2	2	1	4	5	2	4	2	2	2	4	25
19	4	2	2	0	2	1	0	2	5	2	0	1	1	1	0	4	5	2	2	1	2	1	0	12
20	1	2	1	1	2	2	2	5	0	2	0	2	2	1	2	4	1	3	2	3	2	2	5	21
21	3	2	2	2	1	1	2	2	3	4	0	2	0	1	1	3	2	4	2	2	1	1	2	12
22	2	2	1	1	0	0	0	0	1	2	2	1	0	0	0	0	2	2	2	1	0	0	0	9
23	0	2	1	0	0	0	1	1	0	2	2	0	0	0	1	1	0	3	2	0	0	0	1	9
24	3	2	1	0	0	0	0	0	2	2	0	0	1	0	0	1	2	2	0	1	0	0	1	10
25	2	1	0	0	0	0	0	0	2	2	0	0	0	0	0	0	2	2	0	0	0	0	0	4
26	0	0	2	1	0	0	2	5	0	1	2	1	1	0	2	5	0	1	2	1	1	0	2	12
27	5	5	2	2	1	2	2	2	6	5	1	1	1	1	1	1	6	5	2	2	1	2	2	22
28	3	2	0	0	0	1	1	2	5	2	0	0	0	1	0	1	5	2	0	0	0	1	1	12
29	2	2	2	1	2	2	2	4	2	2	1	2	1	1	2	4	3	2	2	2	2	2	4	22
30	2	2	1	1	1	1	1	0	3	1	1	2	1	0	0	0	3	2	1	2	1	1	1	11
31	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1

1979 AUGUST ARGENTINE ISLANDS

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

1979 SEPTEMBER ARGENTINE ISLANDS

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

1979 OCTOBER	ARGENTINE								ISLANDS																
1	2	2	1	2	1	2	1	1	4	1	2	2	1	1	0	0	4	2	2	2	1	2	1	1	15
2	0	2	1	0	0	1	2	3	0	0	0	1	1	1	1	1	0	2	1	1	1	1	2	3	11
3	4	3	3	0	1	3	2	2	3	3	3	1	1	2	2	1	4	3	3	1	1	3	2	2	19
4	3	2	3	3	0	2	0	0	3	1	3	4	1	0	0	0	3	2	3	4	1	2	0	0	15
5	0	1	1	0	0	1	2	2	0	0	0	0	1	1	2	2	0	1	1	0	1	1	2	2	8
6	3	3	3	3	4	4	3	3	4	3	3	4	5	3	2	1	4	3	3	4	5	4	3	3	29
7	3	4	4	3	4	3	3	4	4	3	4	3	5	4	3	3	4	4	4	3	5	4	3	4	31
8	5	4	3	4	2	3	3	4	6	4	4	5	3	3	3	5	6	4	4	5	3	3	3	5	33
9	3	2	4	2	2	2	3	3	3	3	3	4	1	3	3	2	3	3	4	4	2	3	3	3	25
10	3	2	2	2	2	2	2	2	4	3	2	3	2	2	2	1	4	3	2	3	2	2	2	2	20
11	0	1	2	2	1	3	2	2	0	0	2	3	3	2	2	0	0	1	2	3	3	3	2	2	16
12	1	1	2	1	1	1	3	4	0	0	0	3	1	1	3	4	1	1	2	3	1	1	3	4	16
13	3	3	3	2	0	2	2	3	2	3	1	2	1	2	2	2	3	3	3	2	1	2	2	3	19
14	2	0	2	2	0	1	0	1	2	2	0	1	1	1	0	0	2	2	2	2	1	1	0	1	11
15	1	0	1	1	2	1	2	2	0	0	1	2	2	1	2	0	1	0	1	2	2	1	2	2	11
16	2	3	1	0	0	1	2	2	2	3	1	1	2	1	0	0	2	3	1	1	2	1	2	2	14
17	1	2	1	0	0	0	0	1	0	1	1	1	1	1	0	0	1	2	1	1	1	1	0	1	8
18	1	1	1	0	0	0	0	1	0	1	1	0	0	0	0	0	1	1	1	0	0	0	0	1	4
19	1	1	1	0	1	2	1	2	0	1	0	1	1	1	0	0	1	1	1	1	1	2	1	2	10
20	2	0	2	2	0	2	2	2	1	0	3	2	1	1	1	1	2	0	3	2	1	2	2	2	14
21	2	3	1	1	1	2	3	3	2	2	1	3	1	2	2	3	2	3	1	3	1	2	3	3	18
22	3	3	2	1	2	2	3	3	4	3	3	2	2	2	3	1	4	3	3	2	2	2	3	3	22
23	2	2	1	1	0	2	3	3	1	2	0	2	2	1	2	1	2	2	1	2	2	2	3	3	17
24	1	3	2	1	1	2	3	1	1	3	3	3	2	2	2	0	1	3	3	3	2	2	3	1	18
25	2	3	2	1	1	1	2	3	2	2	3	3	2	1	2	1	2	3	3	3	2	1	2	3	18
26	2	2	1	0	1	1	2	2	0	3	1	2	2	2	2	1	2	3	1	2	2	2	2	2	16
27	0	2	2	1	0	2	2	1	0	2	3	1	0	1	1	0	0	2	3	1	0	2	2	1	11
28	3	2	2	1	2	2	3	3	1	2	2	2	3	2	1	2	3	2	2	2	3	2	3	3	20
29	3	3	0	0	0	1	2	2	4	3	0	1	0	1	1	1	4	3	0	1	0	1	2	2	13
30	3	1	1	1	0	0	1	0	0	1	1	2	1	0	0	0	3	1	1	2	1	0	1	0	9
31	0	0	1	1	0	1	2	3	0	0	1	2	0	0	2	1	0	0	1	2	0	1	2	3	9

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1	2	3	3	2	2	3	4	3	2	2	2	4	2	3	3	2	2	3	2	4	2	3	4	3	24
2	2	2	2	0	2	1	2	1	3	3	2	2	2	2	1	0	3	3	2	2	2	2	2	1	17
3	1	1	1	1	1	2	3	3	0	0	0	3	2	2	3	2	1	1	1	3	2	2	3	3	16
4	3	2	1	2	1	1	3	2	2	1	3	3	0	0	1	0	3	2	3	3	1	1	3	2	18
5	1	0	0	0	0	0	1	1	1	0	0	1	1	0	0	0	1	0	0	1	1	0	1	1	5
6	1	1	1	0	1	0	0	1	0	0	0	2	1	1	0	0	1	1	1	2	1	1	0	1	8
7	1	2	1	1	1	2	3	3	1	2	1	3	3	2	2	2	1	2	1	3	3	2	3	3	18
8	2	3	2	3	1	2	2	3	1	1	4	4	3	2	1	1	2	3	4	4	3	2	2	3	23
9	3	3	2	1	2	4	4	4	2	2	2	1	3	3	3	1	3	3	2	1	3	4	4	4	24
10	0	2	1	0	0	1	3	4	0	0	1	1	1	1	1	2	0	2	1	1	1	1	3	4	13
11	4	3	2	1	1	3	3	2	2	3	3	3	2	2	1	1	4	3	3	3	2	3	3	2	23
12	1	1	2	2	2	2	3	3	0	1	2	2	2	1	1	0	1	1	2	2	2	2	3	3	16
13	4	4	3	3	3	4	4	4	3	4	4	4	4	3	4	3	4	4	4	4	4	4	4	4	32
14	3	3	2	0	0	0	0	0	5	4	2	1	0	1	0	0	5	4	2	1	0	1	0	0	13
15	0	2	0	1	0	0	0	2	0	0	0	1	1	0	0	0	0	2	0	1	1	0	0	2	6
16	4	3	2	1	1	2	3	3	2	3	3	2	2	1	2	1	4	3	3	2	2	2	3	3	22
17	2	3	3	1	0	1	3	2	2	3	2	3	0	1	1	1	2	3	3	3	0	1	3	2	17
18	3	2	0	0	0	2	1	1	2	1	0	1	1	0	1	0	3	2	0	1	1	2	1	1	11
19	0	1	0	1	1	2	3	3	0	1	1	2	2	1	2	2	0	1	1	2	2	2	3	3	14
20	3	1	1	1	1	2	2	1	0	1	2	3	3	2	2	0	3	1	2	3	3	2	2	1	17
21	2	1	1	0	0	1	2	1	2	1	2	1	0	0	1	0	2	1	2	1	0	1	2	1	10
22	1	1	1	1	0	0	0	1	0	0	1	2	0	0	0	0	1	1	1	2	0	0	0	1	6
23	1	0	0	0	0	1	2	2	0	0	0	1	1	0	1	1	1	0	0	1	1	1	2	2	8
24	3	4	3	3	2	3	4	3	2	3	4	4	3	4	3	2	3	4	4	4	3	4	4	3	29
25	4	4	3	1	0	1	2	2	4	4	2	2	2	0	1	0	4	4	3	2	2	1	2	2	20
26	2	0	0	0	0	1	3	2	0	0	1	0	1	1	1	1	2	0	1	0	1	1	3	2	10
27	2	1	2	0	0	1	1	1	1	1	1	1	0	0	0	0	2	1	2	1	0	1	1	1	0
28	0	0	0	0	0	1	2	2	0	0	1	1	1	0	1	0	0	0	1	1	1	1	2	2	8
29	0	0	1	0	0	3	3	3	0	0	0	2	1	1	2	0	0	0	1	2	1	3	3	3	13
30	2	2	4	3	2	2	3	3	0	1	5	4	3	2	1	0	2	2	5	4	3	2	3	3	24

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