

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1960

FROM ARGENTINE ISLANDS A.973

LAT. -65° 15'

LONG. 295° 44'

GEOMAGNETIC LAT. -53.8°

GEOMAGNETIC LONG. 3.3°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1960

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.

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

3. Order of traces, from top to bottom:

Sensitive magnetogram.

Insensitive magnetogram

Temperature trace.
H trace.

D trace
D base-line (double,
upper line is used).

H base-line.
(Temperature trace reflection,
sometimes present)

H base-line.
Temperature trace

D base-line.
D trace.
Z base-line and trace.

H trace.
Z base-line and trace.

4. Sense of traces.

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.

The sensitive H and Z variometers have appreciable temperature coefficients.

H base-line values increase with increasing temperature.
Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

SENSITIVE MAGNETOGRAM

INSENSITIVE MAGNETOGRAM

Temperature trace.

Scale Value 0.527°C/mm.
Baseline - 31.5°C
Parallax Correction + 4 minutes

Horizontal Force trace.

| | | |
|-------------------------|---|-----------------------------------|
| Scale Value: | +39 γ /mm. | 16.0 γ /mm. |
| Baselines: | 1-7: 23,301 γ (at 0°C) 8-31: 23,300 γ (" ") | All days 23,308 γ (actual) |
| Temperature coefficient | +2 γ /°C | |
| Parallax Correction | + 2 minutes | nil. |

Declination trace:

| | | |
|----------------------|------------|------------|
| Scale Value: | 0.52' /mm. | 0.39' /mm. |
| Base line (actual) | 17°38' ± | 16°31' ± |
| Parallax correction: | + 1 minute | - 1 minute |

Vertical Force trace:

| | | |
|-----------------------------|---|---------------------------------------|
| Scale Value: | 1-5: 4.10 γ /mm. 6-31: 4.13 γ /mm. | All days 4.25 γ /mm. |
| Base lines | 1-29: - 36,408 γ (at 0°C) 30-31: - 36,409 γ (" ") | " - 36,418 (actual). |
| Temperature coefficient | 2.4 γ /°C | |
| Parallax Correction | nil | - 1 minutes |
| Reflection distance. | | |
| Main trace to 1st refl. up | 75.3 mm. | |
| Distance between baselines: | H to D: 37.1 mm. D to Z: 131.3 mm. | D to H: 46.6 mm. H to Z: 131.2 mm. |

Lower limit K_9 : 500 γ

Scale values: H, 4.39 γ_{mm} ; D, 6.28 γ_{mm} .

| Day | K_H | | | | | | | | K_D | | | | | | | | Max(K_H, K_D) | | | | | | | | Sum |
|-----|-------|----|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|-------------------|----|----|----|----|----|----|----|-----|
| | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | |
| 1 | 2 | 2 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 1 | 0 | 0 | 1 | 10 |
| 2 | 1 | 2 | 1 | 0 | 0 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 12 |
| 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 11 |
| 4 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 3 | 4 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 2 | 3 | 2 | 20 |
| 5 | 3 | 4 | 2 | 3 | 3 | 2 | 3 | 4 | 1 | 3 | 3 | 4 | 4 | 2 | 1 | 2 | 3 | 4 | 3 | 4 | 4 | 2 | 3 | 4 | 27 |
| 6 | 4 | 3 | 2 | 1 | 1 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 0 | 4 | 3 | 2 | 1 | 2 | 2 | 3 | 2 | 19 |
| 7 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | 0 | 1 | 3 | 3 | 1 | 1 | 1 | 0 | 2 | 2 | 3 | 3 | 2 | 3 | 1 | 2 | 18 |
| 8 | 2 | 1 | 0 | 2 | 1 | 2 | 2 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 14 |
| 9 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 3 | 3 | 14 |
| 10 | 3 | 3 | 5 | 4 | 5 | 4 | 4 | 4 | 1 | 1 | 5 | 5 | 4 | 3 | 3 | 2 | 3 | 3 | 5 | 5 | 5 | 4 | 4 | 4 | 33 |
| 11 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 1 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 24 |
| 12 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 4 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 4 | 20 |
| 13 | 1 | 1 | 1 | 1 | q | q | 4 | 4 | 1 | 1 | 1 | 2 | q | q | 3 | 3 | 1 | 1 | 1 | 2 | q | q | 4 | 4 | 13+ |
| 14 | 4 | 3 | 4 | 3 | 4 | 4 | 6 | 5 | 4 | 3 | 5 | 5 | 4 | 1 | 3 | 5 | 4 | 3 | 5 | 5 | 4 | 4 | 6 | 5 | 36 |
| 15 | 5 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 5 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 5 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 24 |
| 16 | 2 | 2 | 0 | 0 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 0 | 1 | 1 | 2 | 1 | 4 | 13 |
| 17 | 3 | 2 | 1 | 1 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 4 | 2 | 1 | 1 | 3 | 3 | 2 | 3 | 4 | 3 | 2 | 3 | 23 |
| 18 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 3 | 1 | 2 | 5 | 4 | 4 | 2 | 2 | 1 | 3 | 3 | 5 | 4 | 4 | 4 | 4 | 3 | 30 |
| 19 | 3 | 1 | 0 | 0 | 0 | 3 | 2 | 3 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 3 | 1 | 1 | 2 | 2 | 3 | 2 | 3 | 17 |
| 20 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 1 | 3 | 4 | 4 | 3 | 2 | 3 | 1 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 28 |
| 21 | 5 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 4 | 3 | 4 | 4 | 5 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 35 |
| 22 | 4 | 3 | 2 | 4 | q | q | q | 3 | 2 | 2 | 2 | 4 | 3 | q | q | q | 4 | 3 | 2 | 4 | 3 | q | q | 3 | 19+ |
| 23 | 3 | q | 3 | q | q | 3 | 3 | 3 | q | 3 | q | 3 | 3 | q | 3 | q | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 24 |
| 24 | q | q | q | q | q | 3 | q | q | q | q | q | 3 | q | 3 | 3 | q | q | q | q | 3 | q | 3 | 3 | q | 9+ |
| 25 | 3 | q | q | q | q | q | q | q | q | q | q | q | q | q | q | q | 3 | q | q | q | q | q | q | q | 3+ |
| 26 | q | q | q | q | q | 3 | 3 | 3 | q | q | q | 3 | 3 | 1 | 2 | 2 | q | q | q | 3 | 3 | 3 | 3 | 3 | 15+ |
| 27 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 3 | 16 |
| 28 | 2 | q | q | q | q | q | 3 | q | 1 | q | q | q | q | q | q | q | 2 | q | q | q | q | q | 3 | q | 5+ |
| 29 | 4 | 4 | 3 | 2 | 2 | 2 | 3 | q | q | 1 | 3 | 3 | 3 | 1 | q | q | 4 | 4 | 3 | 3 | 3 | 2 | 3 | q | 22+ |
| 30 | 2 | 1 | 0 | 1 | 1 | 1 | 1 | 2 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 2 | 1 | 1 | 1 | 2 | 10 |
| 31 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 0 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 13 |

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GEOMAGNETIC LAT. -53.8°

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EXPLANATORY NOTES 1960

FEBRUARY 1960

SENSITIVE MAGNETOGRAM

INSENSITIVE MAGNETOGRAM

1. Instruments

These are standard La Cour varicometers, 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 1/2 minute.

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

3. Order of traces, from top to bottom:

| Sensitive magnetogram. | Insensitive magnetogram |
|---|---|
| Temperature trace. | D trace |
| H trace. | D base-line (double, upper line is used). |
| H base-line. | H base-line. |
| (Temperature trace reflection, sometimes present) | Temperature trace |
| D base-line. | H trace. |
| D trace. | Z base-line and trace. |
| Z base-line and trace. | |

4. Sense of traces.

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.

The sensitive H and Z variometers have appreciable temperature coefficients.

H base-line values increase with increasing temperature.
Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

Temperature trace:

| | |
|---------------------|-------------|
| Scale Value | 0.527°C/mm. |
| Base Line | - 31.5°C. |
| Parallax Correction | + 4 minutes |

Horizontal Force trace:

| | |
|--------------------------|---|
| Scale Value | 4.39 γ /mm. |
| Base Lines | 1: 23,300 γ (at 0°C) 2: 23,299 γ (" ") 3-29: 23,298 γ (" ") |
| Temperature Coefficient: | 4.2 γ /°C. |
| Parallax correction | + 2 minutes |

Declination trace:

| | |
|----------------------|--------------|
| Scale Value: | 0.92' /mm. |
| Base Line (Actual): | 17° 32' 4 E. |
| Parallax Correction: | + 1 minute. |

Vertical Force trace:

| | |
|--------------------------|--|
| Scale Value: | 4.15 γ /mm. |
| Base Lines: | 1-15: - 36,609 γ (at 0°C) 16-21: - 36,610 γ (" ") 22-23: - 36,611 γ (" ") 24-29: - 36,612 γ (" ") |
| Temperature coefficient: | 2.1 γ /°C. |
| Parallax Correction | Nil. |

Distance between baselines: H to D: 37.1 mm.
D to Z: 136.5 mm.

Lower limit K_9 : 500 γ

Scale values: H, 4.39 γ ; D, 6.28 γ .

K_H

K_D

$\text{Max}(K_H, K_D)$

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

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EXPLANATORY NOTES 1960

MARCH 1960

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INSENSITIVE MAGNETOGRAM

1. Instruments

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

3. Order of traces, from top to bottom:

Sensitive magnetogram.

Insensitive magnetogram

Temperature trace.
H trace.

D trace
D base-line (double,
upper line is used).

H base-line.
(Temperature trace reflection,
sometimes present)

H base-line.
Temperature trace

D base-line.
D trace.
Z base-line and trace.

H trace.
Z base-line and trace.

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All magnetograms: Temperature increases up the sheet.
H increases up the sheet.
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Z increases down the sheet.
(N.B. Z is negative, hence as Z increases, modulus of Z decreases).

5. Temperature coefficients.

The sensitive H and Z variometers have appreciable temperature coefficients.

H base-line values increase with increasing temperature.
Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

Temperature trace

Scale Value: 0.527°C /mm.

Base Lines:

1-22 (1450Z) : - 31.5°C.
22(1450Z)-27 (2314Z) : - 33.2°C.
27(2314Z)-31 : - 33.6°C.

Parallax Correction: + 4 minutes.

Horizontal Force Trace:

Scale Value: 4.39 γ /mm.

Base Lines 1-20: 23,298 γ (at 0°C)
21-27: 23,297 γ (" ")
28-31: 23,300 γ (" ")

Temperature Coefficient: 4.2 γ /°C.

Parallax Correction: + 2 minutes

Reflection distance:

Main trace to 1st refl. down 95.5 mm.

Declination trace:

Scale Value: 0.92' /mm.

Base Lines (Actual) 1-22 (1450Z) : 17° 38' 4" E.
22nd(1450Z) -27th: 17° 38' 0" E.
28-31 : 17° 37' 7" E.

Parallax Correction: + 1 minute.

Vertical Force trace:

Scale Value: 4.15 γ /mm.

Base Lines: 1-9: - 36,612 γ (at 0°C)
10: - 36,613 γ (" ")
11-31: - 36,614 γ (" ")

Temperature coefficient: 2.1 γ /°C.

Parallax Correction: Nil.

11.25 γ /mm.

31: - 36,891 γ (Actual)

- 2 minutes.

Distance between baselines:

1-22: H to D: 37.1 mm.
D to Z: 136.3 mm.

22-27: H to D: 37.5 mm.) Bulb
D to Z: 131.7 mm.) changed

27-31: H to D: 37.6 mm.) Bulb
D to Z: 131.0 mm.) adjusted

31: D to H: 46.6 mm.
H to Z: 131.2 mm.

ARGENTINE ISLANDS A.973

MARCH 1960

Lower limit K₉: 500 γ

Scale values: H, 4.39 γ ; D, 6.28 γ .

| 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 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 22 |
| 2 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 1 | 2 | 2 | 4 | 3 | 4 | 4 | 3 | 2 | 3 | 3 | 25 |
| 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 1 | 3 | 4 | 3 | 3 | 2 | 2 | 1 | 2 | 3 | 4 | 3 | 3 | 2 | 2 | 3 | 22 |
| 4 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 20 |
| 5 | 2 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 1 | 3 | 4 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 3 | 2 | 3 | 22 |
| 6 | 3 | 4 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 4 | 1 | 2 | 1 | 1 | 2 | 1 | 3 | 4 | 2 | 2 | 1 | 2 | 2 | 2 | 18 |
| 7 | 0 | 2 | 1 | 1 | 1 | 0 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 1 | 1 | 1 | 0 | 3 | 1 | 10 |
| 8 | 0 | 2 | 3 | 1 | 2 | 2 | 3 | 3 | 1 | 2 | 5 | 4 | 2 | 2 | 1 | 1 | 1 | 2 | 5 | 4 | 2 | 2 | 3 | 3 | 22 |
| 9 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 3 | 3 | 2 | 1 | 1 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 20 |
| 10 | 2 | 2 | 4 | 3 | 2 | 3 | 4 | 2 | 1 | 2 | 4 | 5 | 2 | 3 | 2 | 2 | 2 | 2 | 4 | 5 | 2 | 3 | 4 | 2 | 24 |
| 11 | 3 | 3 | 2 | 4 | 3 | 3 | 4 | 2 | 2 | 2 | 3 | 4 | 4 | 3 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 3 | 4 | 2 | 26 |
| 12 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 15 |
| 13 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 15 |
| 14 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 11 |
| 15 | 2 | 1 | 1 | 1 | 2 | 2 | 4 | 4 | 1 | 0 | 1 | 1 | 3 | 2 | 4 | 3 | 2 | 1 | 1 | 1 | 3 | 2 | 4 | 4 | 18 |
| 16 | 5 | 4 | 5 | 3 | 2 | 3 | 4 | 4 | 7 | 5 | 5 | 2 | 2 | 3 | 3 | 4 | 7 | 5 | 5 | 3 | 2 | 3 | 4 | 4 | 33 |
| 17 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 1 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 17 |
| 18 | 2 | 3 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 2 | 3 | 3 | 2 | 2 | 1 | 1 | 2 | 16 |
| 19 | 1 | 2 | 2 | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 0 | 2 | 2 | 2 | 3 | 1 | 1 | 1 | 1 | 13 |
| 20 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 2 | 1 | 0 | 1 | 0 | 0 | 1 | 2 | 2 | 1 | 0 | 1 | 0 | 1 | 8 |
| 21 | 1 | 2 | 2 | 1 | 3 | 1 | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 1 | 0 | 0 | 1 | 2 | 2 | 2 | 3 | 1 | 0 | 0 | 11 |
| 22 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 1 | 1 | 1 | 0 | 1 | 2 | 9 |
| 23 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 1 | 0 | 0 | 1 | 2 | 8 |
| 24 | 3 | 3 | 2 | 1 | 1 | 2 | 3 | 2 | 4 | 3 | 2 | 2 | 1 | 1 | 2 | 1 | 4 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 19 |
| 25 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 2 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 2 | 8 |
| 26 | 2 | 0 | 2 | 2 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 2 | 1 | 1 | 1 | 0 | 2 | 0 | 2 | 2 | 1 | 1 | 1 | 0 | 9 |
| 27 | 2 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 1 | 2 | 3 | 3 | 1 | 0 | 0 | 0 | 2 | 3 | 3 | 3 | 1 | 0 | 0 | 0 | 12 |
| 28 | 0 | 2 | 3 | 3 | 1 | 3 | 3 | 3 | 0 | 1 | 3 | 4 | 2 | 1 | 3 | 2 | 0 | 2 | 3 | 4 | 2 | 3 | 3 | 3 | 20 |
| 29 | 4 | 3 | 3 | 2 | 1 | 1 | 1 | 3 | 5 | 3 | 5 | 3 | 1 | 1 | 0 | 5 | 5 | 3 | 5 | 3 | 1 | 1 | 1 | 5 | 24 |
| 30 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 4 | 5 | 2 | 2 | 3 | 3 | 2 | 1 | 4 | 5 | 2 | 2 | 3 | 3 | 2 | 2 | 4 | 23 |
| 31 | 3 | 3 | 3 | 6 | 5 | 6 | 5 | 7 | 3 | 4 | 5 | 5 | 5 | 5 | 5 | 8 | 3 | 4 | 5 | 6 | 5 | 6 | 5 | 8 | 42 |

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1960

FROM ARGENTINE ISLANDS A.973

LAT. -65° 15'

LONG. 295° 44'

GEOMAGNETIC LAT. -53.8°

GEOMAGNETIC LONG. 3.3°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES - 1960

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.

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

3. Order of traces, from top to bottom:

| Sensitive magnetogram. | Insensitive magnetogram |
|---|---|
| Temperature trace. | D trace |
| H trace. | D base-line (double, upper line is used). |
| H base-line. (Temperature trace reflection, sometimes present) | H base-line. |
| D base-line. | Temperature trace |
| D trace. | H trace. |
| Z base-line and trace. | Z base-line and trace. |

4. Sense of traces.

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.

The sensitive H and Z variometers have appreciable temperature coefficients.

H base-line values increase with increasing temperature.

Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

APRIL 1960

SENSITIVE MAGNETOGRAM

INSENSITIVE MAGNETOGRAM

Temperature trace

Scale Value: 0.527°C /mm.
 Base Line: - 33.6°C
 Parallax Correction: + 4 minutes

Horizontal Force trace:

| | | |
|--------------|-------------------------------|-----------------------------|
| Scale Value: | 4.39 γ /mm. | 16.0 γ /mm. |
| Base Lines: | 1-5: 23,300 γ (at 0°C) | 1: 24,007 γ (Actual) |
| | 6-14: 23,299 γ (" ") | 15: 24,000 γ (" ") |
| | 15-18: 23,298 γ (" ") | 30: 23,993 γ (" ") |
| | 19-30: 23,297 γ (" ") | |

Temperature coefficient 4.2 γ /°C.
 Parallax correction + 2 minutes
 Reflection distance
 Main trace to 1st refl. down 93.3 mm.

Declination trace:

| | | |
|------------------------------|-------------|-----------------|
| Scale Value: | 0.92' /mm. | 2.39' /mm. |
| Base Lines (Actual) | 17° 37.7 E. | 1: 16° 32.0 E. |
| | | 15: 16° 31.9 E. |
| Parallax correction | + 1 minute | - 1 minute |
| Reflection distance: | | |
| Main trace to 1st refl. down | | 76.3 mm. |

Vertical Force trace

| | | |
|--------------|---------------------------------|------------------------------|
| Scale Value: | 4.15 γ /mm. | 11.25 γ /mm. |
| Base Lines: | 1-28: -36,614 γ (at 0°C) | 1: -36,892 γ (Actual) |
| | 29: -36,613 γ (" ") | 15: -36,894 γ (" ") |
| | 30: -36,612 γ (" ") | 30: -36,893 γ (" ") |

Temperature coefficient 2.1 γ /°C.
 Parallax correction Nil
 Reflection distance
 Main trace to 1st refl. down 80.0 mm.

| | | |
|----------------------------|-------------------|-------------------|
| Distance between baselines | H to D: 37.6 mm. | D to H: 46.6 mm. |
| | D to Z: 131.2 mm. | H to Z: 131.2 mm. |

Lower limit 19 : 500 y

Scale values: H, 4.39 $\frac{r}{mm}$; D, 6.28 $\frac{r}{mm}$.

| 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 | 8 | 7 | 5 | 6 | 7 | 7 | 7 | 5 | 7 | 9 | 5 | 6 | 6 | 6 | 6 | 5 | 8 | 9 | 5 | 6 | 7 | 7 | 7 | 5 | 54 |
| 2 | 5 | 5 | 4 | 5 | 3 | 1 | 3 | 4 | 6 | 5 | 4 | 4 | 2 | 1 | 1 | 2 | 6 | 5 | 4 | 5 | 3 | 1 | 3 | 4 | 31 |
| 3 | 5 | 5 | 4 | 3 | 2 | 3 | 3 | 2 | 4 | 6 | 7 | 2 | 3 | 2 | 3 | 0 | 5 | 6 | 7 | 3 | 3 | 3 | 3 | 2 | 32 |
| 4 | 2 | 4 | 2 | 2 | 2 | 3 | 3 | 4 | 1 | 2 | 1 | 2 | 3 | 2 | 3 | 4 | 2 | 4 | 2 | 2 | 3 | 3 | 3 | 4 | 23 |
| 5 | 3 | 5 | 4 | 2 | 3 | 3 | 2 | 1 | 2 | 4 | 3 | 2 | 3 | 3 | 1 | 0 | 3 | 5 | 4 | 2 | 3 | 3 | 2 | 1 | 23 |
| 6 | 0 | 3 | 3 | 1 | 2 | 3 | 3 | 3 | 0 | 3 | 2 | 2 | 1 | 4 | 1 | 2 | 0 | 3 | 3 | 2 | 2 | 4 | 3 | 3 | 20 |
| 7 | 3 | 3 | 2 | 0 | 0 | 3 | 3 | 2 | 4 | 4 | 2 | 0 | 1 | 2 | 2 | 2 | 4 | 4 | 2 | 0 | 1 | 3 | 3 | 2 | 19 |
| 8 | 4 | 2 | 3 | 3 | 1 | 2 | 2 | 2 | 4 | 4 | 3 | 3 | 2 | 1 | 2 | 1 | 4 | 4 | 3 | 3 | 2 | 2 | 2 | 2 | 22 |
| 9 | 2 | 4 | 3 | 2 | 0 | 1 | 0 | 1 | 3 | 3 | 4 | 2 | 1 | 0 | 1 | 0 | 3 | 4 | 4 | 2 | 1 | 1 | 1 | 1 | 17 |
| 10 | 2 | 4 | 3 | 3 | 2 | 2 | 3 | 4 | 1 | 4 | 4 | 3 | 2 | 1 | 2 | 6 | 2 | 4 | 4 | 3 | 2 | 2 | 3 | 6 | 26 |
| 11 | 4 | 3 | 2 | 2 | 2 | 2 | 1 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 20 |
| 12 | 5 | 4 | 2 | 2 | 2 | 2 | 3 | 4 | 5 | 4 | 4 | 2 | 2 | 2 | 2 | 4 | 5 | 4 | 4 | 2 | 2 | 2 | 3 | 4 | 26 |
| 13 | 4 | 4 | 5 | 1 | 1 | 1 | 2 | 3 | 5 | 5 | 5 | 2 | 1 | 1 | 1 | 2 | 5 | 5 | 5 | 2 | 1 | 1 | 2 | 3 | 24 |
| 14 | 3 | 2 | 2 | 3 | 2 | 1 | 2 | 3 | 4 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 4 | 3 | 2 | 3 | 2 | 1 | 2 | 3 | 20 |
| 15 | 3 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 5 | 3 | 4 | 4 | 4 | 4 | 4 | 11+ |
| 16 | 2 | 3 | 1 | 1 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 21 |
| 17 | 4 | 5 | 5 | 2 | 1 | 2 | 2 | 4 | 6 | 4 | 4 | 3 | 1 | 2 | 3 | 4 | 6 | 4 | 4 | 3 | 1 | 2 | 3 | 4 | 27 |
| 18 | 4 | 3 | 3 | 3 | 1 | 2 | 1 | 1 | 6 | 2 | 3 | 4 | 2 | 1 | 1 | 1 | 6 | 3 | 3 | 4 | 2 | 2 | 1 | 1 | 22 |
| 19 | 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 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 21 | 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 |
| 22 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 5 |
| 23 | 1 | 2 | 2 | 1 | 0 | 0 | 1 | 4 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 5 | 1 | 2 | 2 | 1 | 0 | 0 | 1 | 5 | 12 |
| 24 | 6 | 5 | 5 | 3 | 3 | 3 | 3 | 5 | 6 | 6 | 5 | 2 | 4 | 1 | 1 | 6 | 6 | 6 | 5 | 3 | 4 | 3 | 3 | 6 | 36 |
| 25 | 5 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 6 | 3 | 4 | 5 | 3 | 2 | 3 | 4 | 6 | 3 | 4 | 5 | 4 | 4 | 3 | 4 | 33 |
| 26 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 1 | 1 | 1 | 5 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 5 | 21 |
| 27 | 2 | 1 | 3 | 1 | 2 | 1 | 3 | 6 | 3 | 2 | 4 | 1 | 2 | 1 | 3 | 6 | 3 | 2 | 4 | 1 | 2 | 1 | 3 | 6 | 22 |
| 28 | 5 | 6 | 5 | 5 | 5 | 2 | 3 | 3 | 7 | 6 | 6 | 5 | 4 | 2 | 4 | 3 | 7 | 6 | 6 | 5 | 5 | 2 | 4 | 3 | 38 |
| 29 | 5 | 5 | 4 | 3 | 3 | 2 | 3 | 4 | 6 | 6 | 4 | 4 | 2 | 2 | 3 | 5 | 6 | 6 | 4 | 4 | 3 | 2 | 3 | 5 | 33 |
| 30 | 6 | 5 | 4 | 4 | 8 | 9 | 7 | 4 | 5 | 7 | 5 | 5 | 7 | 7 | 7 | 5 | 6 | 7 | 5 | 5 | 8 | 9 | 7 | 5 | 52 |

BRITISH ANTARCTIC SURVEY

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LAT. -65° 15'

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GEOMAGNETIC LAT. -53.8°

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30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1960

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.

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

3. Order of traces, from top to bottom:

| Sensitive magnetogram. | Insensitive magnetogram |
|---|---|
| Temperature trace. | D trace |
| H trace. | D base-line (double, upper line is used). |
| H base-line. (Temperature trace reflection, sometimes present) | H base-line. |
| D base-line. | Temperature trace |
| D trace. | H trace. |
| Z base-line and trace. | Z base-line and trace. |

4. Sense of traces.

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.

The sensitive H and Z variometers have appreciable temperature coefficients.
 H base-line values increase with increasing temperature.
 Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

SENSITIVE MAGNETOGRAM

INSENSITIVE MAGNETOGRAM

Temperature trace:

Scale Value: 0.527°C /mm.
 Base Line: - 33.6°C.
 Parallax correction: + 4 minutes

Horizontal Force trace:

Scale Value: 4.39 γ /mm.
 Base Line: 3,98 γ (at 0°C)
 Temperature coefficient: 4.1 γ /°C.
 Parallax correction: + 2 minutes.

Declination trace:

Scale Value: 0.92' /mm.
 Base Line (Actual): 17° 37.7 S.
 Parallax correction: - 1 minute.

Vertical Force trace:

Scale Value: 4.15 γ /mm.
 Base Line: - 36,611 γ (at 0°C)
 Temperature coefficient: 2.1 γ /°C.
 Parallax correction: 1-13: Nil
 14-31: - 1 minute

Distance between baseline:

H to D: 37.6 mm.
 D to Z: 131.2 mm.

Scale values: H, 4.39 x/m; D, 6.28 x/m.

Scale values: H, 4.39 x/m; D, 6.28 x/m.

| No. | K_H | | | | | | | | K_D | | | | | | | | Max(K_H, K_D) | | | | | | | | Sum |
|-----|-------|----|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|-------------------|----|----|----|----|----|----|----|-----|
| | E1 | E2 | E3 | E4 | E5 | E6 | E7 | E8 | E1 | E2 | E3 | E4 | E5 | E6 | E7 | E8 | E1 | E2 | E3 | E4 | E5 | E6 | E7 | E8 | |
| 1 | 5 | 5 | 4 | 3 | 2 | 2 | 2 | 4 | 5 | 3 | 4 | 4 | 3 | 2 | 0 | 4 | 5 | 5 | 4 | 4 | 3 | 2 | 2 | 4 | 29 |
| 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 18 |
| 3 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 4 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 4 | 2 | 1 | 1 | 1 | 14 |
| 4 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 9 |
| 5 | 2 | 2 | 1 | 0 | 0 | 0 | 2 | 3 | 0 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 3 | 14 |
| 6 | 4 | 3 | 3 | 3 | 3 | 4 | 5 | 5 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 5 | 5 | 31 |
| 7 | 5 | 4 | 3 | 3 | 4 | 4 | 3 | 5 | 6 | 4 | 3 | 3 | 3 | 3 | 2 | 5 | 6 | 4 | 3 | 3 | 4 | 4 | 3 | 5 | 32 |
| 8 | 2 | 5 | 4 | 5 | 5 | 6 | 4 | 4 | 4 | 5 | 5 | 6 | 5 | 5 | 3 | 4 | 4 | 5 | 5 | 6 | 5 | 6 | 4 | 4 | 39 |
| 9 | 3 | 4 | 3 | 3 | 2 | 2 | 0 | 0 | 3 | 1 | 2 | 3 | 2 | 1 | 1 | 0 | 3 | 4 | 3 | 3 | 2 | 2 | 1 | 0 | 18 |
| 10 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 4 | 16 |
| 11 | 4 | 5 | 5 | 3 | 0 | 0 | 3 | 3 | 4 | 5 | 5 | 5 | 1 | 1 | 1 | 3 | 4 | 5 | 5 | 5 | 1 | 1 | 3 | 3 | 27 |
| 12 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 4 | 5 | 3 | 2 | 3 | 1 | 2 | 2 | 4 | 5 | 3 | 2 | 3 | 2 | 2 | 23 |
| 13 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 3 | 2 | 2 | 1 | 2 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 15 |
| 14 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 1 | 3 | 4 | 4 | 3 | 1 | 1 | 1 | 0 | 3 | 4 | 4 | 3 | 2 | 1 | 1 | 1 | 19 |
| 15 | 0 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 2 | 3 | 2 | 1 | 0 | 1 | 0 | 0 | 2 | 3 | 2 | 1 | 1 | 1 | 0 | 10 |
| 16 | 1 | 1 | 0 | 0 | 3 | 4 | 4 | 4 | 1 | 2 | 1 | 2 | 3 | 3 | 3 | 3 | 1 | 2 | 1 | 2 | 3 | 4 | 4 | 4 | 21 |
| 17 | 3 | 2 | 3 | 2 | 3 | 1 | 1 | 0 | 2 | 1 | 2 | 3 | 2 | 1 | 0 | 0 | 3 | 2 | 3 | 3 | 3 | 1 | 1 | 0 | 16 |
| 18 | 2 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 2 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 2 | 3 | 2 | 1 | 1 | 0 | 1 | 0 | 10 |
| 19 | 2 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 2 | 0 | 0 | 0 | 1 | 2 | 2 | 3 | 2 | 0 | 0 | 0 | 1 | 10 |
| 20 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 21 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 4 |
| 22 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 4 |
| 23 | 0 | 1 | 1 | 0 | 3 | 3 | 4 | 4 | 0 | 0 | 1 | 1 | 2 | 1 | 3 | 3 | 0 | 1 | 1 | 1 | 3 | 3 | 4 | 4 | 17 |
| 24 | 3 | 4 | 5 | 3 | 2 | 0 | 3 | 4 | 3 | 4 | 5 | 4 | 2 | 2 | 3 | 4 | 3 | 4 | 5 | 4 | 2 | 2 | 3 | 4 | 27 |
| 25 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 5 | 4 | 3 | 2 | 3 | 2 | 2 | 2 | 5 | 4 | 3 | 2 | 3 | 3 | 3 | 3 | 26 |
| 26 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | 3 | 5 | 4 | 4 | 3 | 2 | 1 | 1 | 3 | 5 | 4 | 4 | 3 | 2 | 2 | 2 | 3 | 25 |
| 27 | 4 | 4 | 1 | 0 | 0 | 0 | 2 | 2 | 5 | 4 | 1 | 0 | 0 | 0 | 1 | 2 | 5 | 4 | 1 | 0 | 0 | 0 | 2 | 2 | 14 |
| 28 | 3 | 1 | 0 | 0 | 0 | 0 | 4 | 3 | 3 | 1 | 1 | 2 | 0 | 0 | 3 | 2 | 3 | 1 | 1 | 2 | 0 | 0 | 4 | 3 | 14 |
| 29 | 6 | 4 | 4 | 2 | 3 | 2 | 4 | 4 | 6 | 4 | 4 | 2 | 2 | 2 | 4 | 3 | 6 | 4 | 4 | 2 | 3 | 2 | 4 | 4 | 29 |
| 30 | 3 | 2 | 2 | 4 | 4 | 0 | 1 | 1 | 1 | 1 | 2 | 4 | 4 | 2 | 1 | 1 | 3 | 2 | 2 | 4 | 4 | 2 | 1 | 1 | 19 |
| 31 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 16 |

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JUNE, 1960

EXPLANATORY NOTES 1960SENSITIVE MAGNETOGRAMINSENSITIVE MAGNETOGRAM1. 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.

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

3. Order of traces, from top to bottom:

Sensitive magnetogram.

Insensitive magnetogram

Temperature trace.

D trace

H trace.

D base-line (double,
upper line is used).

H base-line.

H base-line.

(Temperature trace reflection,
sometimes present)

Temperature trace

D base-line.

H trace.

D trace.

Z base-line and trace.

Z base-line and trace.

4. Sense of traces.

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.

The sensitive H and Z variometers have appreciable temperature coefficients.

H base-line values increase with increasing temperature.

Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

Temperature trace:

Scale Value: 0.527°C/mm.
Base Line: - 33.6°C.
Parallax correction: + 4 minutes.

Horizontal Force trace:

Scale Value: 4.39 γ /mm.
Base Lines: 1-6: 23,298 γ (at 0°C)
7: 23,299 γ (" "
8-24: 23,300 γ (" "
25: 23,299 γ (" "
26: 23,298 γ (" "
27-30: 23,297 γ (" "

Temperature coefficient: 4.2 γ /°C.
Parallax correction: + 2 minutes

Declination trace:

Scale Value: 0.92' /mm.
Baseline: (actual) 17° 37.7'.
Parallax correction: + 1 minute

Vertical Force trace.

Scale Value: 4.15 γ /mm.
Baselines: 1-12: -36,611 γ (at 0°C)
23: -36,612 γ (" "
24-30: -36,613 γ (" "
Temperature coefficient: 2.1 γ /°C.
Parallax correction: + 1 minute

Distance between baselines: H to D: 37.6 mm.

D to Z: 151.2 mm.

(Time mark bulb failed 23rd - replaced 24th).

ARGENTINE ISLANDS A.973

JUNE 1960

Lower limit K9 : 500 %

Scale values: H, 4.39 %; D, 6.28 %

| 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 | 3 | 5 | 4 | 4 | 4 | 1 | 0 | 0 | 4 | 4 | 5 | 5 | 3 | 1 | 0 | 0 | 4 | 5 | 5 | 5 | 4 | 1 | 0 | 0 | 24 |
| 2 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 4 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 4 |
| 4 | 4 | 5 | 5 | 3 | 2 | 2 | 2 | 4 | 3 | 5 | 6 | 5 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 5 | 2 | 2 | 2 | 4 | 30 |
| 5 | 4 | 4 | 5 | 4 | 2 | 2 | 2 | 2 | 5 | 5 | 5 | 6 | 4 | 1 | 1 | 1 | 5 | 5 | 5 | 6 | 4 | 2 | 2 | 2 | 31 |
| 6 | 4 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 5 | 5 | 4 | 4 | 2 | 2 | 0 | 2 | 5 | 5 | 4 | 4 | 2 | 2 | 1 | 2 | 25 |
| 7 | 3 | 3 | 3 | 2 | 1 | 0 | 1 | 0 | 3 | 3 | 2 | 3 | 1 | 0 | 1 | 1 | 3 | 3 | 3 | 3 | 1 | 0 | 1 | 1 | 15 |
| 8 | 3 | 4 | 3 | 3 | 1 | 1 | 2 | 4 | 3 | 5 | 4 | 3 | 1 | 1 | 2 | 3 | 3 | 5 | 4 | 3 | 1 | 1 | 2 | 4 | 23 |
| 9 | 3 | 5 | 3 | 2 | 1 | 1 | 2 | 0 | 4 | 4 | 3 | 3 | 1 | 1 | 1 | 0 | 4 | 5 | 3 | 3 | 1 | 1 | 2 | 0 | 19 |
| 10 | 0 | 2 | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 0 | 1 | 1 | 2 | 2 | 11 |
| 11 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 7 |
| 12 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 3 |
| 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 4 |
| 14 | 1 | 1 | 3 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 2 | 1 | 2 | 1 | 1 | 1 | 3 | 3 | 3 | 1 | 2 | 1 | 15 |
| 15 | 1 | 0 | 3 | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 4 | 3 | 2 | 1 | 1 | 0 | 2 | 0 | 4 | 3 | 2 | 1 | 1 | 0 | 13 |
| 16 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 7 |
| 17 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 |
| 18 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 0 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 17 |
| 19 | 5 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 2 | 3 | 4 | 4 | 2 | 1 | 1 | 1 | 3 | 3 | 4 | 4 | 2 | 1 | 3 | 3 | 23 |
| 20 | 2 | 3 | 2 | 1 | 0 | 0 | 1 | 1 | 4 | 3 | 3 | 1 | 1 | 0 | 0 | 3 | 4 | 3 | 3 | 1 | 1 | 0 | 1 | 3 | 16 |
| 21 | 2 | 3 | 3 | 3 | 1 | 2 | 2 | 2 | 2 | 4 | 3 | 5 | 2 | 2 | 1 | 2 | 2 | 4 | 3 | 5 | 2 | 2 | 2 | 2 | 22 |
| 22 | 2 | 3 | 2 | 1 | 1 | 0 | 1 | 2 | 5 | 5 | 3 | 1 | 1 | 0 | 1 | 2 | 5 | 5 | 3 | 1 | 1 | 0 | 1 | 2 | 18 |
| 23 | 3 | 3 | 1 | 1 | 1 | 2 | 1 | 2 | 4 | 4 | 4 | 1 | 1 | 1 | 0 | 1 | 4 | 4 | 4 | 1 | 1 | 2 | 1 | 2 | 19 |
| 24 | 3 | 2 | 3 | 1 | 1 | 0 | 2 | 3 | 2 | 2 | 3 | 3 | 1 | 0 | 3 | 1 | 3 | 2 | 3 | 3 | 1 | 0 | 3 | 3 | 18 |
| 25 | 4 | 3 | 1 | 1 | 2 | 2 | 3 | 5 | 3 | 2 | 1 | 1 | 3 | 2 | 3 | 5 | 4 | 3 | 1 | 1 | 3 | 2 | 3 | 5 | 22 |
| 26 | 4 | 4 | 3 | 1 | 1 | 1 | 2 | 3 | 5 | 5 | 4 | 2 | 1 | 1 | 1 | 4 | 5 | 5 | 4 | 2 | 1 | 1 | 2 | 4 | 24 |
| 27 | 5 | 5 | 3 | 3 | 2 | 3 | 3 | 4 | 5 | 6 | 5 | 3 | 2 | 2 | 3 | 5 | 5 | 6 | 5 | 3 | 2 | 3 | 3 | 5 | 32 |
| 28 | 3 | 4 | 3 | 4 | 2 | 2 | 3 | 4 | 2 | 2 | 3 | 4 | 3 | 1 | 2 | 3 | 3 | 4 | 3 | 4 | 3 | 2 | 3 | 4 | 26 |
| 29 | 4 | 4 | 3 | 0 | 0 | 1 | 4 | 5 | 3 | 4 | 4 | 2 | 0 | 1 | 2 | 5 | 4 | 4 | 4 | 2 | 0 | 1 | 4 | 5 | 24 |
| 30 | 5 | 5 | 1 | 3 | 2 | 2 | 4 | 3 | 5 | 5 | 3 | 2 | 2 | 2 | 2 | 3 | 5 | 5 | 3 | 3 | 2 | 2 | 4 | 3 | 27 |

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1960

FROM ARGENTINE ISLANDS A.973

LAT. -65° 15'

LONG. 295° 44'

GEOMAGNETIC LAT. -53.8°

GEOMAGNETIC LONG. 3.3°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1960

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.

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

3. Order of traces, from top to bottom:

| Sensitive magnetogram. | Insensitive magnetogram |
|---|---|
| Temperature trace. | D trace |
| H trace. | D base-line (double, upper line is used). |
| H base-line. (Temperature trace reflection, sometimes present) | H base-line. |
| D base-line. | Temperature trace |
| D trace. | H trace. |
| Z base-line and trace. | Z base-line and trace. |

4. Sense of traces.

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.

The sensitive H and Z variometers have appreciable temperature coefficients.
 H base-line values increase with increasing temperature.
 Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

JULY 1960

SENSITIVE MAGNETOGRAM

INSENSITIVE MAGNETOGRAM

Temperature trace:

Scale Value: 0.527°C/mm.
 Base Line: - 33.6°C.
 Parallax Correction: + 4 minutes.

Horizontal Force trace:

Scale Value: 4.39 γ /mm.
 Base Lines: 1-8: 23,297 γ (at 0°C)
 9: 23,296 γ (" ")
 10: 23,295 γ (" ")
 11-20: 23,294 γ (" ")
 21: 23,295 γ (" ")
 22-29: 23,296 γ (" ")
 30: 23,297 γ (" ")
 31: 23,298 γ (" ")

Temperature coefficient: 4.2 γ /°C.
 Parallax correction: + 2 minutes.
 Reflection distance:
 Main trace to 1st refl. down: 93.5 mm.

Declination trace:

Scale Value: 0.92' /mm.
 Baseline (Actual) 17°37.7 E.
 Parallax correction: + 1 minute.

Vertical Force trace:

Scale Value: 4.15 γ /mm.
 Base Lines: 1-7: -36,613 γ (at 0°C)
 8: -36,614 γ (" ")
 9: -36,615 γ (" ")
 10: -36,616 γ (" ")
 11-20: -36,617 γ (" ")
 21-24: -36,618 γ (" ")
 25-31: -36,619 γ (" ")

Temperature coefficient: 2.1 γ /mm°C
 Parallax correction: + 1 minute.

Distance between baselines: H to D: 37.7 mm.
 D to Z: 131.2 mm.

ARGENTINE ISLANDS A.973

JULY 1960

Lower limit K9 : 500 γ

Scale values: H, 4.39 γ/m ; D, 6.28 γ/m .

| 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 | 4 | 3 | 3 | 2 | 2 | 0 | 2 | 1 | 5 | 5 | 3 | 4 | 2 | 2 | 2 | 2 | 5 | 5 | 3 | 4 | 2 | 2 | 2 | 2 | 25 |
| 2 | 3 | 3 | 2 | 2 | 2 | 1 | 0 | 0 | 3 | 4 | 3 | 3 | 1 | 1 | 1 | 1 | 3 | 4 | 3 | 3 | 2 | 1 | 1 | 1 | 18 |
| 3 | 1 | 3 | 1 | 0 | 0 | 1 | 3 | 3 | 2 | 3 | 3 | 3 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 1 | 1 | 3 | 3 | 19 |
| 4 | 3 | 3 | 3 | 2 | 1 | 1 | 1 | 2 | 5 | 4 | 4 | 4 | 1 | 2 | 1 | 2 | 5 | 4 | 4 | 4 | 1 | 2 | 1 | 2 | 23 |
| 5 | 3 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 4 | 3 | 3 | 1 | 1 | 2 | 3 | 3 | 4 | 3 | 3 | 1 | 2 | 2 | 21 |
| 6 | 3 | 2 | 0 | 4 | 1 | 2 | 0 | 0 | 3 | 2 | 1 | 4 | 1 | 1 | 1 | 0 | 3 | 2 | 1 | 4 | 1 | 2 | 1 | 0 | 14 |
| 7 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 3 |
| 8 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 9 | 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 |
| 10 | 3 | 2 | 2 | 0 | 1 | 0 | 0 | 1 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 2 | 3 | 2 | 2 | 1 | 1 | 0 | 0 | 2 | 11 |
| 11 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 0 | 0 | 1 | 1 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 13 |
| 12 | 3 | 3 | 2 | 2 | 1 | 0 | 1 | 1 | 3 | 2 | 3 | 3 | 1 | 0 | 1 | 1 | 3 | 3 | 3 | 3 | 1 | 0 | 1 | 1 | 15 |
| 13 | 2 | 3 | 3 | 2 | 0 | 1 | 3 | 3 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 2 | 1 | 1 | 3 | 3 | 18 |
| 14 | 0 | 3 | 1 | 3 | 2 | 3 | 3 | 4 | 0 | 4 | 4 | 4 | 2 | 3 | 2 | 3 | 0 | 4 | 4 | 4 | 2 | 3 | 3 | 4 | 24 |
| 15 | 2 | 4 | 3 | 4 | 4 | 5 | 5 | 5 | 1 | 3 | 4 | 6 | 4 | 4 | 3 | 6 | 2 | 4 | 4 | 6 | 4 | 5 | 5 | 6 | 36 |
| 16 | 7 | 5 | 5 | 3 | 3 | 2 | 3 | 3 | 8 | 5 | 5 | 5 | 4 | 3 | 2 | 3 | 8 | 5 | 5 | 5 | 4 | 3 | 3 | 3 | 36 |
| 17 | 5 | 3 | 4 | 2 | 0 | 0 | 0 | 3 | 6 | 4 | 4 | 5 | 2 | 2 | 0 | 4 | 6 | 4 | 4 | 5 | 2 | 2 | 0 | 4 | 27 |
| 18 | 4 | 3 | 3 | 1 | 1 | 1 | 1 | 0 | 3 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 4 | 3 | 4 | 1 | 1 | 1 | 1 | 1 | 16 |
| 19 | 0 | 2 | 4 | 4 | 2 | 2 | 3 | 4 | 0 | 1 | 5 | 6 | 3 | 2 | 3 | 5 | 0 | 2 | 5 | 6 | 3 | 2 | 3 | 5 | 26 |
| 20 | 4 | 3 | 1 | 2 | 2 | 1 | 3 | 4 | 5 | 2 | 2 | 3 | 2 | 1 | 2 | 4 | 5 | 3 | 2 | 3 | 2 | 1 | 3 | 4 | 23 |
| 21 | 2 | 4 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 4 | 3 | 0 | 1 | 1 | 0 | 2 | 2 | 4 | 3 | 0 | 1 | 1 | 0 | 2 | 13 |
| 22 | 1 | 3 | 2 | 1 | 1 | 1 | 0 | 3 | 2 | 3 | 3 | 2 | 1 | 0 | 1 | 3 | 2 | 3 | 3 | 2 | 1 | 1 | 1 | 3 | 16 |
| 23 | 5 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 5 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 2 | 0 | 0 | 0 | 1 | 0 | 10 |
| 24 | 2 | 3 | 2 | 1 | 0 | 0 | 1 | 0 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 1 | 0 | 0 | 1 | 0 | 10 |
| 25 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 3 |
| 26 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 4 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 3 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 4 | 9 |
| 27 | 3 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 7 |
| 28 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 0 | 1 | 1 | 7 |
| 29 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 5 | 4 | 4 | 2 | 1 | 2 | 2 | 1 | 5 | 4 | 4 | 2 | 2 | 2 | 3 | 3 | 25 |
| 30 | 4 | 4 | 2 | 3 | 1 | 1 | 1 | 2 | 3 | 4 | 3 | 3 | 2 | 1 | 1 | 1 | 4 | 4 | 3 | 3 | 2 | 1 | 1 | 2 | 20 |
| 31 | 5 | 3 | 4 | 3 | 2 | 2 | 2 | 3 | 6 | 5 | 5 | 4 | 2 | 2 | 2 | 3 | 6 | 5 | 5 | 4 | 2 | 2 | 2 | 3 | 29 |

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1960

FROM ARGENTINE ISLANDS A.973

LAT. -65° 15'

LONG. 295° 44'

GEOMAGNETIC LAT. -53.8°

GEOMAGNETIC LONG. 3.3°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1960

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.

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

3. Order of traces, from top to bottom:

| Sensitive magnetogram. | Insensitive magnetogram |
|---|---|
| Temperature trace. | D trace |
| H trace. | D base-line (double, upper line is used). |
| H base-line. (Temperature trace reflection, sometimes present) | H base-line. |
| D base-line. | Temperature trace |
| D trace. | H trace. |
| Z base-line and trace. | Z base-line and trace. |

4. Sense of traces.

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.

The sensitive H and Z variometers have appreciable temperature coefficients.
 H base-line values increase with increasing temperature.
 Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

SENSITIVE MAGNETOGRAM

INSENSITIVE MAGNETOGRAM

Temperature trace:

Scale Value: 0.527 °C/mm.
 Base Line: - 33.6 °C.
 Parallax correction: + 4 minutes

Horizontal force trace:

Scale Value: 4.39 γ /mm.
 Base Line: 23,298 γ (at 0 °C).
 Temperature coefficient: 4.2 γ /°C.
 Parallax correction: + 2 minutes

16.0 γ /mm.
 24,007 γ (Actual)

Declination trace:

Scale Value: 0.32' /mm.
 Base Line (actual): 17° 57.7' .
 Parallax correction: 1-21: + 1 minute
 22-31: - 1 minute

0.35' /mm.
 16° 32.0' .
 (All days) - 1 minute.

Vertical Force trace

Scale Value: 1-21: 4.15 γ /mm.
 22-31: 4.00 γ /mm.
 Base Lines: 1-21: -36,619 γ (at 0 °C)
 22-29: -36,501 γ " "
 30: -36,328 γ " "
 31: -36,503 γ " "

11.25 γ /mm.
 -16,903 γ (actual)

Temperature coefficient: 2.1 γ /°C.
 Parallax correction: + 1 minute
 reflection distance
 Main trace to 1st refl. up: 50.1 : .

- 2 minutes

Distance between base-lines: 1- 1: H to D: 37.7 mm.
 D to Z: 131.2 mm.
 1-15: H to D: 40.7 mm.
 D to Z: 128.2 mm.
 25-31: H to D: 35.2 mm.
 D to Z: 135.7 mm.

(All days) D to H: 46.6 mm.
 H to Z: 131.2 mm.

Lower limit K9 : 500 ✓

Scale values: H, 4.39 $\frac{r}{mm}$; D, 6.26 $\frac{r}{mm}$.

| 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 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 4 | 4 | 3 | 2 | 2 | 2 | 0 | 2 | 4 | 4 | 3 | 2 | 2 | 2 | 1 | 2 | 20 |
| 2 | 2 | 4 | 2 | 2 | 1 | 1 | 2 | 3 | 3 | 4 | 3 | 3 | 1 | 2 | 1 | 2 | 3 | 4 | 3 | 3 | 1 | 2 | 2 | 3 | 21 |
| 3 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 2 | 1 | 0 | 1 | 0 | 2 | 2 | 1 | 2 | 1 | 0 | 1 | 1 | 2 | 10 |
| 4 | 3 | 3 | 2 | 3 | 1 | 0 | 0 | 0 | 3 | 3 | 2 | 3 | 1 | 0 | 0 | 0 | 3 | 3 | 2 | 3 | 1 | 0 | 0 | 0 | 12 |
| 5 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 3 |
| 6 | 1 | 1 | 2 | 2 | 1 | 0 | 1 | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 0 | 1 | 1 | 9 |
| 7 | 3 | 2 | 1 | 1 | 1 | 2 | 0 | 0 | 4 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 4 | 2 | 1 | 1 | 1 | 2 | 0 | 0 | 11 |
| 8 | 0 | 2 | 3 | 1 | 1 | 1 | 2 | 3 | 0 | 2 | 3 | 2 | 2 | 1 | 2 | 5 | 0 | 2 | 3 | 2 | 2 | 1 | 2 | 5 | 17 |
| 9 | 3 | 3 | 2 | 3 | 2 | 0 | 1 | 2 | 3 | 5 | 6 | 4 | 2 | 1 | 1 | 0 | 3 | 5 | 6 | 4 | 2 | 1 | 1 | 2 | 24 |
| 10 | 2 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 3 | 1 | 1 | 1 | 2 | 2 | 4 | 4 | 3 | 1 | 1 | 1 | 18 |
| 11 | 2 | 4 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 4 | 3 | 3 | 2 | 2 | 1 | 1 | 2 | 4 | 3 | 3 | 2 | 2 | 1 | 2 | 19 |
| 12 | 3 | 3 | 4 | 2 | 1 | 1 | 1 | 1 | 3 | 5 | 4 | 5 | 3 | 1 | 1 | 0 | 3 | 5 | 4 | 5 | 3 | 1 | 1 | 1 | 23 |
| 13 | 1 | 3 | 2 | 1 | 1 | 1 | 0 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 12 |
| 14 | 1 | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 17 |
| 15 | 3 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 3 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 10 |
| 16 | 0 | 0 | 1 | 0 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 4 | 3 | 5 | 5 | 0 | 0 | 1 | 0 | 4 | 4 | 5 | 5 | 19 |
| 17 | 5 | 5 | 5 | 3 | 3 | 4 | 4 | 4 | 6 | 6 | 5 | 5 | 2 | 5 | 4 | 4 | 6 | 6 | 5 | 5 | 3 | 5 | 4 | 4 | 38 |
| 18 | 2 | 3 | 4 | 4 | 1 | 1 | 1 | 0 | 3 | 3 | 3 | 5 | 2 | 0 | 0 | 0 | 3 | 3 | 4 | 5 | 2 | 1 | 1 | 0 | 19 |
| 19 | 2 | 0 | 1 | 1 | 1 | 2 | 3 | 5 | 1 | 0 | 1 | 2 | 1 | 2 | 2 | 4 | 2 | 0 | 1 | 2 | 1 | 2 | 3 | 5 | 16 |
| 20 | 2 | 3 | 4 | 2 | 1 | 2 | 3 | 3 | 1 | 3 | 6 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 6 | 3 | 2 | 2 | 3 | 3 | 24 |
| 21 | 4 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 4 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 4 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 22 |
| 22 | 4 | 2 | 1 | 0 | 1 | 0 | 2 | 3 | 6 | 3 | 1 | 1 | 0 | 0 | 1 | 4 | 6 | 3 | 1 | 1 | 1 | 0 | 2 | 4 | 18 |
| 23 | 3 | 2 | 0 | 0 | 0 | 1 | 2 | 0 | 3 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 3 | 2 | 1 | 1 | 0 | 1 | 2 | 0 | 10 |
| 24 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4+ |
| 25 | 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 |
| 26 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 3 |
| 27 | 3 | 2 | 2 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 2 | 2 | 2 | 1 | 3 | 3 | 2 | 1 | 2 | 3 | 3 | 3 | 20 |
| 28 | 3 | 4 | 3 | 0 | 1 | 2 | 0 | 0 | 3 | 4 | 4 | 0 | 2 | 1 | 0 | 0 | 3 | 4 | 4 | 0 | 2 | 2 | 0 | 0 | 15 |
| 29 | 5 | 5 | 4 | 2 | 3 | 3 | 3 | 5 | 4 | 6 | 5 | 2 | 3 | 3 | 2 | 5 | 5 | 6 | 5 | 2 | 3 | 3 | 3 | 5 | 32 |
| 30 | 6 | 6 | 5 | 4 | 3 | 2 | 3 | 2 | 4 | 6 | 7 | 4 | 3 | 2 | 2 | 2 | 6 | 6 | 7 | 4 | 3 | 2 | 3 | 2 | 33 |
| 31 | 2 | 3 | 3 | 3 | 2 | 1 | 1 | 2 | 3 | 4 | 3 | 3 | 1 | 0 | 0 | 2 | 3 | 4 | 3 | 3 | 2 | 1 | 1 | 2 | 19 |

BRITISH ANTARCTIC SURVEY

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MAGNETIC RECORDS FOR 1960

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LAT. -65° 15'

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GEOMAGNETIC LAT. -53.8°

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ORIGINAL RECORDS HELD AT:-

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HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1960

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.

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

3. Order of traces, from top to bottom:

| Sensitive magnetogram. | Insensitive magnetogram |
|---|---|
| Temperature trace. | D trace |
| H trace. | D base-line (double, upper line is used). |
| H base-line. (Temperature trace reflection, sometimes present) | H base-line. |
| D base-line. | Temperature trace |
| D trace. | H trace. |
| Z base-line and trace. | Z base-line and trace. |

4. Sense of traces.

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.

The sensitive H and Z variometers have appreciable temperature coefficients.
 H base-line values increase with increasing temperature.
 Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

SENSITIVE MAGNETOGRAM.

INSENSITIVE MAGNETOGRAM

Temperature trace:

Scale Value: 0.527°C/mm.
 Base Line: - 33.6°C.
 Parallax correction: + 4 minutes

Horizontal Force trace:

Scale Value: 4.39 γ /mm.
 Base Lines: 1-15: 23,298 γ (at 0°C)
 16-30: 23,297 γ (" ")
 Temperature coefficient: +.2 γ /°C.
 Parallax correction: + 2 minutes

16.0 γ /mm.
 (All days) 24,004 γ (Actual)
 Nil.

Declination trace

Scale Value: 0.2' /mm.
 Base Line (Actual) 17° 37.7'.
 Parallax correction: - 1 minute
 Reflection distance:

2.39' /mm.
 16° 32.5'.
 - 1 minute

Vertical Force trace:

Scale Value: 4.00 γ /mm.
 Base Lines: 1-15: -36,503 γ (at 0°C)
 16-28: -36,504 γ (" ")
 29-30: -36,505 γ (" ")
 Temperature coefficient: 2.1 γ /°C.

11.05 γ /mm.
 (All days) -36,500 γ (Actual)

Parallax correction: + 1 minute
 Reflection distance
 Main trace to 1st refl. up 30.2 mm.
 Main trace to 1st refl. down

- 1 minutes
 30.3 mm.

Distance between baselines: A to D: 33.3 mm.
 D to E: 135.6 mm.

D to A: 46.6 mm.
 A to E: 131.2 mm.

ARGENTINE ISLANDS A.973

SEPTEMBER 1960

Lower limit K9 : 500 y

Scale values: H, 4.39 y/m; D, 6.28 y/m

| 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 | 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 |
| 2 | 0 | 2 | 2 | 1 | 2 | 2 | 3 | 4 | 0 | 3 | 1 | 1 | 2 | 2 | 3 | 4 | 0 | 3 | 2 | 1 | 2 | 2 | 3 | 4 | 17 | |
| 3 | 3 | 4 | 5 | 1 | 2 | 1 | 2 | 2 | 6 | 4 | 5 | 2 | 1 | 1 | 2 | 1 | 6 | 4 | 5 | 2 | 2 | 1 | 2 | 2 | 24 | |
| 4 | 2 | 3 | 5 | 4 | 3 | 3 | 4 | 6 | 3 | 4 | 5 | 6 | 4 | 3 | 3 | 7 | 3 | 4 | 5 | 6 | 4 | 3 | 4 | 7 | 36 | |
| 5 | 5 | 6 | 7 | 6 | 3 | 3 | 4 | 5 | 6 | 7 | 7 | 6 | 3 | 3 | 3 | 4 | 6 | 7 | 7 | 6 | 3 | 3 | 4 | 5 | 41 | |
| 6 | 5 | 4 | 4 | 1 | 1 | 1 | 2 | 3 | 5 | 4 | 5 | 2 | 1 | 0 | 1 | 5 | 5 | 4 | 5 | 2 | 1 | 1 | 2 | 5 | 25 | |
| 7 | 2 | 1 | 1 | 2 | 3 | 2 | 3 | 4 | 3 | 2 | 1 | 2 | 3 | 2 | 1 | 3 | 3 | 2 | 1 | 2 | 3 | 2 | 3 | 4 | 20 | |
| 8 | 3 | 2 | 3 | 2 | 1 | 2 | 1 | 0 | 3 | 2 | 3 | 2 | 2 | 1 | 2 | 0 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 0 | 16 | |
| 9 | 3 | 3 | 4 | 2 | 1 | 0 | 1 | 2 | 3 | 3 | 3 | 2 | 2 | 0 | 1 | 2 | 3 | 3 | 4 | 2 | 2 | 0 | 1 | 2 | 17 | |
| 10 | 2 | 2 | 3 | 1 | 1 | 2 | 2 | 0 | 2 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 1 | 15 | |
| 11 | 4 | 2 | 2 | 0 | 0 | 1 | 2 | 2 | 4 | 3 | 2 | 0 | 2 | 1 | 2 | 2 | 4 | 3 | 2 | 0 | 2 | 1 | 2 | 2 | 16 | |
| 12 | 3 | 2 | 3 | 2 | 0 | 0 | 1 | 0 | 4 | 1 | 3 | 3 | 1 | 0 | 1 | 0 | 4 | 2 | 3 | 3 | 1 | 0 | 1 | 0 | 14 | |
| 13 | 3 | 4 | 4 | 3 | 1 | 0 | 1 | 2 | 2 | 4 | 5 | 3 | 2 | 0 | 0 | 3 | 3 | 4 | 5 | 3 | 2 | 0 | 1 | 3 | 21 | |
| 14 | 4 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 5 | 4 | 3 | 2 | 1 | 0 | 0 | 0 | 5 | 4 | 3 | 2 | 1 | 0 | 0 | 0 | 15 | |
| 15 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 1 | 0 | 6 | |
| 16 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 4 | |
| 17 | 1 | 2 | 0 | 0 | 0 | 1 | 3 | 2 | 0 | 2 | 0 | 0 | 2 | 1 | 1 | 3 | 1 | 2 | 0 | 0 | 2 | 1 | 3 | 3 | 12 | |
| 18 | 4 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 4 | 3 | 3 | 3 | 1 | 1 | 1 | 5 | 4 | 3 | 3 | 3 | 1 | 1 | 1 | 21 | |
| 19 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 4 | |
| 20 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 3 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 3 | 8 | |
| 21 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 1 | 1 | 2 | 0 | 0 | 2 | 3 | 1 | 1 | 1 | 2 | 0 | 0 | 3 | 11 | |
| 22 | 2 | 1 | 2 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 0 | 2 | 2 | 2 | 2 | 15 | |
| 23 | 3 | 2 | 3 | 3 | 0 | 0 | 1 | 3 | 3 | 2 | 4 | 4 | 0 | 0 | 1 | 1 | 3 | 2 | 4 | 4 | 0 | 0 | 1 | 3 | 17 | |
| 24 | 4 | 4 | 4 | 4 | 1 | 2 | 2 | 1 | 6 | 5 | 4 | 5 | 2 | 1 | 1 | 1 | 6 | 5 | 4 | 5 | 2 | 2 | 2 | 1 | 27 | |
| 25 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 5 | |
| 26 | 3 | 2 | 2 | 1 | 0 | 1 | 3 | 3 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 2 | 1 | 1 | 1 | 3 | 3 | 16 | |
| 27 | 3 | 4 | 3 | 1 | 1 | 1 | 1 | 1 | 4 | 3 | 4 | 3 | 1 | 0 | 1 | 0 | 4 | 4 | 4 | 3 | 1 | 1 | 1 | 1 | 19 | |
| 28 | 1 | 1 | 1 | 3 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 0 | 0 | 1 | 1 | 9 | |
| 29 | 1 | 0 | 3 | 1 | 3 | 1 | 2 | 4 | 0 | 1 | 3 | 2 | 3 | 1 | 1 | 4 | 1 | 1 | 3 | 2 | 3 | 1 | 2 | 4 | 17 | |
| 30 | 3 | 3 | 2 | 1 | 2 | 1 | 3 | 3 | 4 | 3 | 3 | 2 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 2 | 3 | 3 | 4 | 3 | 25 | |

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1960

FROM ARGENTINE ISLANDS A.973

LAT. -65° 15'

LONG. 295° 44'

GEOMAGNETIC LAT. -55.8°

GEOMAGNETIC LONG. 3.3°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY
DEPARTMENT OF NATURAL PHILOSOPHY
DRUMMOND STREET
EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY
30 GILLINGHAM STREET
LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1960

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.

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

3. Order of traces, from top to bottom:

Sensitive magnetogram.

Insensitive magnetogram

Temperature trace.
H trace.

D trace
D base-line (double,
upper line is used).
H base-line.
Temperature trace

H base-line.
(Temperature trace reflection,
sometimes present)

D base-line.
D trace.
Z base-line and trace.

H trace.
Z base-line and trace.

4. Sense of traces.

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.

The sensitive H and Z variometers have appreciable temperature coefficients.

H base-line values increase with increasing temperature.

Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

SENSITIVE MAGNETOGRAM

INSENSITIVE MAGNETOGRAM

Temperature trace:

Scale Value: 0.527°C/mm.
Base Line: - 33.6°C.
Parallax correction: + 4 minutes

Horizontal Force trace:

Scale Value: $\pm 39 \times$ /mm.
Base Lines: 1-3: 23,297 \times (at 0°C)
4-31: 23,296 \times (" ")
Temperature coefficient: $4.2 \times$ /°C.
Parallax correction: - 2 minutes
Reflection distances
Main trace to 1st refl. down: 7: 23.3 mm.
5: 23.4 mm.

16.0 \times /mm.
All days: 23,937 \times (actual)
11.

Declination trace:

Scale Value: 0.39' /mm.
Base Line (actual): 17° 27.7'
Parallax correction: - 1 minute
Reflection distances
Main trace to 1st refl. down: 76.3 mm.

0.39' /mm.
16° 32.4'
- 1 minute
76.3 mm.

Vertical Force trace:

Scale Value: $-1.00 \times$ /mm.
Base Lines: 1-10: -36,505 \times (at 0°C)
11-20: -36,506 \times (" ")
21-31: -36,507 \times (" ")
Temperature coefficient: $0.1 \times$ /°C.
Parallax correction: - 1 minute
Reflection distances
Main trace to 1st refl. up: 0.2 mm.
Main trace to 1st refl. down: 22.3 mm.

11.25 \times /mm.
All days: -36,503 \times
- 1 minutes

Distance between baselines:

H to D: 35.3 mm.
D to H: 115.6 mm.
H to Z: 131.2 mm.

(Time mark bulb replaced 10th)

ARGENTINE ISLANDS A.973

OCTOBER 1960

Lower limit K9 : 500 γ

Scale values: H, 4.39 δ/μ ; D, 6.28 δ/μ .

| 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 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 2 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 30 | |
| 2 | 4 | 3 | 3 | 5 | 4 | 3 | 3 | 3 | 4 | 3 | 5 | 3 | 4 | 2 | 3 | 2 | 4 | 3 | 5 | 5 | 4 | 3 | 3 | 3 | 30 |
| 3 | 3 | 2 | 2 | 4 | 0 | 1 | 1 | 1 | 3 | 1 | 1 | 4 | 2 | 1 | 1 | 0 | 3 | 2 | 2 | 4 | 2 | 1 | 1 | 1 | 16 |
| 4 | 1 | 1 | 2 | 1 | 2 | 4 | 5 | 5 | 1 | 0 | 1 | 2 | 1 | 5 | 4 | 6 | 1 | 1 | 2 | 2 | 2 | 5 | 5 | 6 | 24 |
| 5 | 3 | 3 | 2 | 1 | 1 | 3 | 3 | 5 | 4 | 4 | 3 | 2 | 2 | 3 | 2 | 4 | 4 | 4 | 3 | 2 | 2 | 3 | 3 | 5 | 26 |
| 6 | 4 | 7 | 6 | 5 | 6 | 6 | 6 | 8 | 6 | 5 | 6 | 6 | 6 | 5 | 5 | 8 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 8 | 51 |
| 7 | 7 | 6 | 5 | 6 | 4 | 4 | 4 | 4 | 8 | 7 | 6 | 5 | 3 | 4 | 5 | 4 | 8 | 7 | 6 | 6 | 4 | 4 | 5 | 4 | 44 |
| 8 | 5 | 3 | 2 | 3 | 1 | 1 | 2 | 3 | 5 | 3 | 2 | 3 | 2 | 1 | 2 | 3 | 5 | 3 | 2 | 3 | 2 | 1 | 2 | 3 | 21 |
| 9 | 3 | 4 | 3 | 2 | 2 | 1 | 2 | 4 | 2 | 4 | 4 | 3 | 2 | 2 | 2 | 5 | 3 | 4 | 4 | 3 | 2 | 2 | 2 | 5 | 25 |
| 10 | 2 | 3 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 1 | 1 | 0 | 1 | 1 | 2 | 3 | 4 | 1 | 1 | 0 | 1 | 1 | 2 | 13 |
| 11 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 0 | 1 | 0 | 0 | 3 | 3 | 3 | 3 | 1 | 1 | 1 | 2 | 17 |
| 12 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 3 | 8 |
| 13 | 1 | 2 | 2 | 0 | 0 | 1 | 1 | 3 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 1 | 1 | 1 | 3 | 11 |
| 14 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 2 | 0 | 0 | 0 | 1 | 7 |
| 15 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 22 |
| 16 | 1 | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 2 | 1 | 0 | 2 | 9 |
| 17 | 2 | 1 | 0 | 1 | 0 | 1 | 2 | 3 | 2 | 0 | 2 | 2 | 2 | 1 | 1 | 0 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 3 | 15 |
| 18 | 3 | 3 | 2 | 3 | 1 | 2 | 4 | 3 | 4 | 3 | 4 | 2 | 2 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 2 | 3 | 4 | 3 | 26 |
| 19 | 1 | 3 | 2 | 1 | 1 | 1 | 0 | 2 | 0 | 3 | 0 | 2 | 2 | 1 | 0 | 1 | 1 | 3 | 2 | 2 | 2 | 1 | 0 | 2 | 15 |
| 20 | 1 | 1 | 1 | 1 | 0 | 1 | 2 | 2 | 1 | 2 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 2 | 2 | 13 |
| 21 | 2 | 1 | 2 | 1 | 0 | 1 | 1 | 2 | 2 | 0 | 2 | 1 | 1 | 0 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 11 |
| 22 | 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 |
| 23 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 5 |
| 24 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 1 | 3 | 3 | 3 | 1 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 15 |
| 25 | 3 | 3 | 5 | 4 | 4 | 5 | 6 | 5 | 1 | 2 | 5 | 5 | 4 | 4 | 4 | 4 | 3 | 3 | 5 | 5 | 4 | 5 | 6 | 5 | 36 |
| 26 | 4 | 4 | 4 | 3 | 3 | 2 | 3 | 4 | 5 | 4 | 4 | 4 | 3 | 2 | 3 | 4 | 5 | 4 | 4 | 4 | 3 | 2 | 3 | 4 | 29 |
| 27 | 3 | 2 | 2 | 3 | 3 | 3 | 4 | 5 | 3 | 3 | 2 | 3 | 4 | 3 | 3 | 5 | 3 | 3 | 2 | 3 | 4 | 3 | 4 | 5 | 27 |
| 28 | 4 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 5 | 4 | 3 | 3 | 1 | 4 | 4 | 3 | 5 | 4 | 3 | 3 | 3 | 29 |
| 29 | 3 | 2 | 3 | 3 | 4 | 4 | 3 | 3 | 5 | 2 | 3 | 4 | 2 | 3 | 3 | 3 | 5 | 2 | 3 | 4 | 4 | 4 | 3 | 3 | 28 |
| 30 | 2 | 2 | 2 | 3 | 4 | 3 | 3 | 4 | 3 | 2 | 4 | 4 | 4 | 3 | 3 | 5 | 3 | 2 | 4 | 4 | 4 | 3 | 3 | 5 | 28 |
| 31 | 4 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 4 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 4 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 23 |

BRITISH ANTARCTIC SURVEY

(FORMERLY FALKLAND ISLAND DEPENDENCIES SURVEY)

MAGNETIC RECORDS FOR 1960

FROM ARGENTINE ISLANDS A.973

LAT. -65° 15'

LONG. 295° 44'

GEOMAGNETIC LAT. -53.8°

GEOMAGNETIC LONG. 3.3°

ORIGINAL RECORDS HELD AT:-

BRITISH ANTARCTIC SURVEY

DEPARTMENT OF NATURAL PHILOSOPHY

DRUMMOND STREET

EDINBURGH, 8.

Phone: EDINBURGH NEWINGTON 1011 EXT. 2497

HEAD OFFICE:-

BRITISH ANTARCTIC SURVEY

30 GILLINGHAM STREET

LONDON, S.W. 1.

Phone: LONDON VICTORIA 3687

EXPLANATORY NOTES 1960

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.

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

3. Order of traces, from top to bottom:

Sensitive magnetogram.

Insensitive magnetogram

Temperature trace.
H trace.

H base-line.
(Temperature trace reflection,
sometimes present)

D base-line.
D trace.
Z base-line and trace.

D trace
D base-line (double,
upper line is used).
H base-line.
Temperature trace
H trace.
Z base-line and trace.

4. Sense of traces.

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.

The sensitive H and Z variometers have appreciable temperature coefficients.

H base-line values increase with increasing temperature.
Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

SENSITIVE MAGNETOGRAM

INSENSITIVE MAGNETOGRAM

Temperature trace:

Scale Value: 0.527°C/mm.
Base Line: - 33.6°C.
Parallax correction: + 4 minutes

Horizontal Force trace:

| | | |
|------------------------------|--------------------------|--------------------------|
| Scale Value: | 4.39 γ /mm. | 16.0 γ /mm. |
| Base Line: | 23,296 γ (at 0°C) | 13,998 γ (actual) |
| Temperature coefficient: | 4.2 γ /°C. | |
| Parallax correction: | + 2 minutes | Nil. |
| Reflection distance: | | |
| Main trace to 1st refl. down | 93.2 mm. | |

Declination trace:

| | | |
|------------------------------|-------------|-------------|
| Scale Value: | 0.92' /mm. | 2.39' /mm. |
| Base Line (Actual) | 17° 37.7 E. | 16° 32.1 E. |
| Parallax correction: | - 1 minute | - 1 minute |
| Reflection distance: | | |
| Main trace to 1st refl. down | | 76.3 mm. |

Vertical Force trace

| | | |
|-------------------------------|---------------------------------|-------------------------------------|
| Scale Value: | 4.00 γ /mm. | 11.25 γ /mm. |
| Base Lines: | 1-14: -36,507 γ (at 0°C) | all days: -36,900 γ (actual) |
| | 15-17: -36,508 γ (" ") | |
| | 18-20: -36,509 γ (" ") | |
| | 21-30: -36,510 γ (" ") | |
| Temperature coefficient: | 2.1 γ /°C. | |
| Parallax correction: | + 1 minute | - 2 minutes. |
| Reflection distances: | | |
| Main trace to 1st refl. up: | 80.3 mm. | |
| Main trace to 1st refl. down: | | 82.4 mm. |
| Distance between baselines: | H to D: 33.3 mm. | D to H: 46.6 mm. |
| | D to Z: 135.7 mm. | H to Z: 131.2 mm. |

ARGENTINE ISLANDS A.973

NOVEMBER 1960

Lower limit K9 : 500 γ

Scale values: H, 4.39 $\gamma/\mu\text{m}$; D, 6.28 $\gamma/\mu\text{m}$.

| 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 | 2 | 1 | 0 | 0 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 3 | 17 |
| 2 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 1 | 3 | 3 | 20 |
| 3 | 4 | 2 | 1 | 2 | 1 | 2 | 3 | 4 | 4 | 2 | 1 | 3 | 3 | 2 | 1 | 3 | 4 | 2 | 1 | 3 | 3 | 2 | 3 | 4 | 22 |
| 4 | 5 | 4 | 4 | 3 | 2 | 2 | 3 | 3 | 5 | 4 | 4 | 5 | 2 | 2 | 1 | 5 | 5 | 4 | 4 | 5 | 2 | 2 | 3 | 5 | 30 |
| 5 | 3 | 3 | 2 | 1 | 0 | 0 | 1 | 1 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 3 | 3 | 2 | 1 | 1 | 0 | 1 | 1 | 12 |
| 6 | 0 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 0 | 0 | 3 | 2 | 2 | 0 | 1 | 1 | 0 | 1 | 3 | 2 | 2 | 1 | 3 | 2 | 14 |
| 7 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 3 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 10 |
| 8 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 1 | 1 | 1 | 7 |
| 9 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 7 |
| 10 | 0 | 0 | 2 | 0 | 2 | 2 | 1 | 2 | 0 | 0 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 1 | 2 | 11 |
| 11 | 3 | 3 | 3 | 4 | 3 | 2 | 4 | 3 | 2 | 3 | 3 | 4 | 3 | 1 | 2 | 1 | 3 | 3 | 3 | 4 | 3 | 2 | 4 | 3 | 25 |
| 12 | 2 | 1 | 2 | 1 | 4 | 4 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 3 | 6 | 5 | 2 | 1 | 2 | 3 | 4 | 4 | 7 | 8 | 31 |
| 13 | 7 | 7 | 9 | 9 | 8 | 6 | 6 | 5 | 8 | 7 | 9 | 9 | 7 | 6 | 6 | 5 | 8 | 7 | 9 | 9 | 8 | 6 | 6 | 5 | 58 |
| 14 | 6 | 3 | 3 | 2 | 2 | 3 | 5 | 4 | 6 | 3 | 3 | 3 | 2 | 1 | 4 | 3 | 6 | 3 | 3 | 3 | 2 | 3 | 5 | 4 | 29 |
| 15 | 4 | 2 | 3 | 2 | 6 | 3 | 5 | 7 | 4 | 3 | 3 | 2 | 4 | 3 | 4 | 7 | 4 | 3 | 3 | 2 | 6 | 3 | 5 | 7 | 33 |
| 16 | 7 | 6 | 3 | 3 | 4 | 3 | 4 | 4 | 7 | 7 | 4 | 3 | 5 | 2 | 2 | 1 | 7 | 7 | 4 | 3 | 5 | 3 | 4 | 4 | 37 |
| 17 | 3 | 3 | 2 | 2 | 1 | 3 | 4 | 4 | 3 | 1 | 3 | 2 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 4 | 4 | 23 |
| 18 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 3 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 7 |
| 19 | 0 | 2 | 1 | 2 | 1 | 1 | 1 | 3 | 0 | 1 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 3 | 1 | 1 | 3 | 14 |
| 20 | 3 | 2 | 1 | 2 | 2 | 3 | 3 | 3 | 1 | 2 | 3 | 3 | 1 | 1 | 1 | 1 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 22 |
| 21 | 2 | 3 | 4 | 4 | 3 | 4 | 4 | 5 | 0 | 4 | 5 | 3 | 4 | 4 | 3 | 2 | 2 | 4 | 5 | 4 | 4 | 4 | 4 | 5 | 32 |
| 22 | 4 | 3 | 3 | 2 | 1 | 3 | 3 | 3 | 4 | 4 | 3 | 2 | 2 | 1 | 2 | 3 | 4 | 4 | 3 | 2 | 2 | 3 | 3 | 3 | 24 |
| 23 | 2 | 2 | 2 | 0 | 0 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 1 | 0 | 0 | 0 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 3 | 16 |
| 24 | 3 | 1 | 2 | 0 | 1 | 2 | 4 | 5 | 4 | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 4 | 1 | 2 | 1 | 2 | 2 | 4 | 5 | 21 |
| 25 | 3 | 4 | 2 | 3 | 3 | 1 | 4 | 4 | 2 | 4 | 5 | 4 | 4 | 1 | 3 | 3 | 3 | 4 | 5 | 4 | 4 | 1 | 4 | 4 | 29 |
| 26 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 0 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 18 |
| 27 | 2 | 3 | 2 | 1 | 1 | 4 | 4 | 2 | 1 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 4 | 4 | 2 | 22 |
| 28 | 2 | 3 | 1 | 2 | 2 | 1 | 2 | 1 | 3 | 4 | 2 | 2 | 2 | 1 | 1 | 0 | 3 | 4 | 2 | 2 | 2 | 1 | 2 | 1 | 17 |
| 29 | 1 | 2 | 1 | 0 | 1 | 1 | 3 | 3 | 2 | 1 | 1 | 2 | 1 | 0 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 3 | 3 | 15 |
| 30 | 2 | 3 | 1 | 1 | 0 | 2 | 5 | 5 | 1 | 3 | 1 | 2 | 1 | 1 | 3 | 3 | 2 | 3 | 1 | 2 | 1 | 2 | 5 | 5 | 21 |

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EXPLANATORY NOTES 1960

SENSITIVE MAGNETOGRAM

INSENSITIVE MAGNETOGRAM

1. Instuments

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.

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

3. Order of traces, from top to bottom:

Sensitive magnetogram.

Insensitive magnetogram

Temperature trace.

D trace

H trace.

D base-line (double, upper line is used).

H base-line.

H base-line.

(Temperature trace reflection, sometimes present)

Temperature trace

D base-line.

H trace.

D trace.

Z base-line and trace.

Z base-line and trace.

4. Sense of traces.

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.

The sensitive H and Z variometers have appreciable temperature coefficients.
 H base-line values increase with increasing temperature.
 Z base-line values decrease (i.e. their moduli increase) with increasing temperature.

Temperature trace:

Scale Value: 0.527°C/mm.
 Base Line: - 33.6°C.
 Parallax correction: + 4 minutes

Horizontal Force trace:

Scale Value: 4.39 γ /mm.
 Base Line: 23,295 γ (at 0°C)
 Temperature coefficient: 4.2 γ /°C.
 Parallax correction: + 2 minutes

Declination trace:

Scale Value: 0.92' /mm.
 Base Line (Actual) : 7° 37.7 E
 Parallax correction: - 1 minute.

Vertical Force trace:

Scale Value: 4.00 γ /mm.
 Base Lines: 1-4: -36,511 γ (at 0°C)
 5-8: -36,512 γ (" ")
 9-13: -36,513 γ (" ")
 14-17: -36,514 γ (" ")
 18-27: -36,515 γ (" ")
 28-31: -36,514 γ (" ")
 Temperature coefficient: 2.1 γ /°C.
 Parallax correction: + 1 minute.

Distance between baselines: H to D: 33.3 mm
 D to Z: 135.7 mm.

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Lower limit K9 : 500 γ

Scale values: H, 4.39 $\gamma/\mu\text{m}$; D, 6.28 $\gamma/\mu\text{m}$

| 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 | 5 | 6 | 5 | 4 | 3 | 4 | 4 | 4 | 4 | 6 | 5 | 5 | 4 | 3 | 4 | 4 | 5 | 6 | 5 | 5 | 4 | 4 | 4 | 4 | 37 |
| 2 | 3 | 3 | 2 | 2 | 4 | 3 | 3 | 3 | 2 | 3 | 2 | 4 | 4 | 2 | 1 | 2 | 3 | 3 | 2 | 4 | 4 | 3 | 3 | 3 | 25 |
| 3 | 2 | 3 | 0 | 1 | 1 | 1 | 0 | 2 | 1 | 3 | 1 | 2 | 1 | 0 | 0 | 0 | 2 | 3 | 1 | 2 | 1 | 1 | 0 | 2 | 12 |
| 4 | 1 | 1 | 1 | 1 | 0 | 2 | 2 | 1 | 0 | 1 | 1 | 1 | 2 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 11 |
| 5 | 1 | 2 | 0 | 0 | 1 | 2 | 4 | 3 | 0 | 3 | 1 | 2 | 2 | 1 | 3 | 0 | 1 | 3 | 1 | 2 | 2 | 2 | 4 | 3 | 18 |
| 6 | 2 | 2 | 1 | 3 | 3 | 2 | 3 | 3 | 0 | 3 | 1 | 3 | 4 | 1 | 2 | 4 | 2 | 3 | 1 | 3 | 4 | 2 | 3 | 4 | 22 |
| 7 | 1 | 2 | 1 | 2 | 1 | 2 | 5 | 4 | 2 | 3 | 1 | 3 | 3 | 0 | 3 | 5 | 2 | 3 | 1 | 3 | 3 | 2 | 5 | 5 | 24 |
| 8 | 3 | 4 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 4 | 3 | 4 | 2 | 0 | 0 | 0 | 3 | 4 | 3 | 4 | 2 | 2 | 2 | 3 | 23 |
| 9 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 1 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 23 |
| 10 | 2 | 1 | 0 | 1 | 1 | 1 | 2 | 2 | 0 | 1 | 0 | 2 | 2 | 0 | 1 | 0 | 2 | 1 | 0 | 2 | 2 | 1 | 2 | 2 | 12 |
| 11 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 0 | 0 | 2 | 1 | 2 | 0 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 3 | 14 |
| 12 | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 3 | 0 | 1 | 2 | 3 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 18 |
| 13 | 2 | 2 | 3 | 3 | 3 | 1 | 0 | 2 | 2 | 3 | 4 | 2 | 3 | 0 | 0 | 0 | 2 | 3 | 4 | 3 | 3 | 1 | 0 | 2 | 18 |
| 14 | 1 | 2 | 1 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 3 | 2 | 1 | 0 | 0 | 1 | 2 | 1 | 3 | 2 | 2 | 0 | 1 | 12 |
| 15 | 2 | 1 | 1 | 3 | 3 | 3 | 3 | 4 | 1 | 3 | 3 | 5 | 3 | 3 | 3 | 4 | 2 | 3 | 3 | 5 | 3 | 3 | 3 | 4 | 26 |
| 16 | 5 | 3 | 4 | 3 | 3 | 0 | 1 | 3 | 3 | 5 | 4 | 4 | 3 | 0 | 0 | 1 | 5 | 5 | 4 | 4 | 3 | 0 | 1 | 3 | 25 |
| 17 | 0 | 2 | 1 | 0 | 1 | 0 | 2 | 4 | 0 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 0 | 2 | 4 | 12 |
| 18 | 2 | 3 | 4 | 3 | 2 | 4 | 4 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 2 | 3 | 4 | 3 | 3 | 4 | 4 | 2 | 25 |
| 19 | 2 | 1 | 2 | 2 | 1 | 3 | 2 | 3 | 1 | 2 | 2 | 3 | 3 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 20 |
| 20 | 3 | 3 | 2 | 2 | 2 | 2 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 4 | 4 | 24 |
| 21 | 3 | 1 | 2 | 2 | 2 | 3 | 4 | 3 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 2 | 2 | 2 | 2 | 3 | 4 | 3 | 23 |
| 22 | 4 | 2 | 2 | 2 | 1 | 2 | 3 | 4 | 4 | 2 | 3 | 3 | 2 | 1 | 1 | 2 | 4 | 2 | 3 | 3 | 2 | 2 | 3 | 4 | 23 |
| 23 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 3 | 2 | 1 | 1 | 1 | 0 | 4 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 19 |
| 24 | 2 | 2 | 1 | 2 | 3 | 3 | 3 | 3 | 1 | 0 | 1 | 2 | 3 | 2 | 1 | 3 | 2 | 2 | 1 | 2 | 3 | 3 | 3 | 3 | 19 |
| 25 | 3 | 1 | 1 | 0 | 0 | 0 | 4 | 3 | 3 | 0 | 0 | 2 | 1 | 0 | 2 | 0 | 3 | 1 | 1 | 2 | 1 | 0 | 4 | 3 | 15 |
| 26 | 3 | 3 | 2 | 1 | 2 | 2 | 3 | 3 | 2 | 4 | 4 | 3 | 3 | 1 | 2 | 1 | 3 | 4 | 4 | 3 | 3 | 2 | 3 | 3 | 25 |
| 27 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 1 | 3 | 4 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 29 |
| 28 | 3 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | 0 | 2 | 3 | 3 | 1 | 2 | 1 | 3 | 1 | 2 | 3 | 3 | 2 | 2 | 2 | 18 |
| 29 | 3 | 2 | 1 | 2 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 23 |
| 30 | 1 | 1 | 1 | 2 | 1 | 2 | 4 | 3 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 4 | 3 | 18 |
| 31 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 0 | 3 | 2 | 3 | 2 | 1 | 1 | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 19 |