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SEISMOLOGICAL BULLETIN.

July - December, 1956.

MAGNETIC OBSERVATORY, HERMANUS.

LOCATION.

Lat. 34°25'.5S., Long. 19°13'.5E.
85 feet above mean sea-level, 700 yards from coast.

LITHOLOGICAL FOUNDATION.

Gravel on sandstone, with a 4 - 5 ft., overburden of sandy soil. The instrument piers rest on the gravel.

INSTRUMENTS.

Two Milne-Shaw seismographs recording N - S and E - W horizontal ground movements. Nominal magnification 250; damping ratio 20:1; recording speed 8mm/min. Free periods: E-W, 12 secs; N-S, 10 secs.

The time is recorded in the form of a 2 - 3 sec. break in the record every minute excepting on the hour and half-hour. The clock correction is determined daily to an accuracy of 0.2 sec.

Due to the breakdown of the driving clock, the E-W seismograph was out of commission from Oct. 8 onwards.

CORRESPONDENCE.

The Magnetic Observatory, Hermanus, is a Branch of the Trigonometrical Survey Office, Department of Lands, Union of South Africa.

Any enquiries relating to this Bulletin should, however be addressed direct to :-

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South Africa.

SEISMOLOGICAL BULLETIN.

Magnetic Observatory, Hermanus, South Africa.

Date 1956.	Phase.	G.M.T. h m s	Epicentre and time of shock.	Δ meas.	Remarks.
Jul. 3	e F	00 08 .. 01 12 ca.			Traces.
Jul. 4	e F	04 07 .. 04 15			Traces.
Jul. 4	e F	04 46 05 00			Traces.
Jul. 9	F	07 32 ca.	USCGS: 37°N, 26°E. (Aegean Sea.) H = 03h 11m 39s.	71½°	Early part of quake lost through power break.
Jul. 9	i(SKS) i F	10 20 48 10 31 21 11 12 ca.	USCGS: 20°N, 73°W. (N. coast of Haiti.) H = 09h 56m 13s h = 100 Km. ca.	102½°	Very weak.
Jul. 10	e F	03 40 .. 03 46 ca.			Traces.
Jul. 12	e F	17 36 .. 17 57			Traces.
Jul. 16	e(S) e(sS) F	15 30 53 15 31 25 17 ca.	USCGS: 22°N, 95½°E. (Central Burmah.) H = 15h 07m 10s. h = 100 Km. ca.	92°	
Jul. 17	e(SKS) i F	07 57 12 08 00 33 08 50	USCGS: 7°S, 126½°E. (Banda Sea.) H = 07h 34m 07s. h = 450 Km. ca.	100°	Weak.
Jul. 18	e(P) i i iS i F	06 33 .. 06 38 27 06 44 08 06 44 45 06 45 00 06 48 30 09 12 ca.	BCIS: 5°S, 130°E. (Banda Sea.) H = 06h 39m 33s. h = 150 Km. ca.	104°	
Jul. 21	e F	15 53 .. 16 40 ca.			Very weak.
Jul. 23	e F	19 59 21 30 ca.			Traces.
Jul. 30	e F	09 51 .. 10 12 ..	USCGS: 37°N, 26°E. (N.E. Isle of Crete.) H = 09h 15m 00s.	71½°	
Jul. 30	e F	11 18 11 30			Weak.
Jul. 31	e F	06 47 .. 07 00			Traces.

Date. 1956.	Phase.	G.M.T. h m s	Epicentre and time of shock.	Δ meas.	Remarks.
Aug. 9	ePP i(SS)	23 21.4 23 38 15	USCGS: 15°S, 176°W. (Samoan Is. region.) H = 23h 00m 42s. h = 250 Km. ca.	129°	Weak.
		24 ca.			
Aug. 14	iP iS iSS	02 54 33 02 58 07 02 58 29	BCIS: 53°S, 22°E. (Prince Edward Isl. region. S indian Ocean.) H = 02h 50.2m.	18½°	
		04 32 ca.			
Aug. 15	e	14 37 .. 15 ca.			Traces.
Aug. 16	e	01 17 01 26 ..			Traces.
Aug. 23	iScS	14 10 34	USCGS: 15°S, 68°W. (Bolivia.) H = 13h 48m 30s. h = 100 Km. ca.	79°	
		15 20			
Aug. 24	e	05 00 .. 06 30 ca.			Traces.
Sep. 1	e	16 37 .. 16 41 ca.			Traces.
Sep. 3	e	21 43 21 48			Traces.
Sep. 6	e	12 22 .. 12 36 ca.			Traces.
Sep. 15	e	08 00.7 09 03			Traces.
Sep. 16	e	09 22 09 55			Confused by microseisms.
Sep. 20 21	e(P) ePS	23 12.6 23 19 44 00 30 ca.	BCIS: 1°S, 24°W. (Atlantic Ocean.) H = 23h 03m 05s.	52°	Weak.
Sep. 28	e	03 33 04 ca.			Traces.
Sep. 29	e	10 40 .. 11 15 ca.			Very weak.
Oct. 4	e	13 05.9 13 10			Traces.
Oct. 8	e	16 04 .. 16 40 ca.			Traces.
Oct. 9	e	07 29 .. 07 39			Traces.
Oct. 11	e	02 46 .. 05 ca.			Confused by microseisms.
Oct. 11	e	17 46 .. 19 00 ca.			Very weak.

Date. 1956.	Phase.	G.M.T. h m s	Epicentre and time of shock.	$\Delta_{meas.}$	Remarks.
Oct. 19 ✓	e e E	14 19 .. 14 28.4 15 22			Weak.
Oct. 22 ✓	e E	13 34 14 06			Confused by microseisms.
Oct. 24 ✓	e E	15 09 17 15			Weak.
Oct. 25 ✓	e E	11 55 12 13			
Oct. 31 ✓✓	e(PP) i(S) e(S_cS) E	14 17 37 14 24 06 14 25 02 16 51 ca.	USCGS: 26½°N, 54½°E. (S. Iran.) H = 14h 03m 38s.	69°	
Nov. 9 ✓	i(S) e(SSP) e(SKKKS) E	13 33 47 13 42 11 13 45 42 14 34	USCGS: 17°N, 94°W. H = 13h 06m 10s. h = 150 Km. ca.	118°	
Nov. 11 ✓	e E	07 36 .. 08 54 ca.			Traces.
Nov. 18 ✓	e E	18 52.8 20 00 ca.			Very weak.
Nov. 21 ✓	e E	00 00 .. 00 05			Traces.
Nov. 24 ✓	e E	21 45 .. 22 16 ca.			Traces.
Nov. 26/27 ✓	e E	23 56 .. 02 oo ca.			Traces.
Dec. 3 ✓	e E	03 49.1 04 43			Weak.
Dec. 8 ✓	e E	06 00 .. 06 09			Traces.
Dec. 8 ✓✓	ePKP ePP E	16 31.0 16 34.7 19 40	USCGS: 51°N, 179½°W. (Aleutians.) H = 16h 10m 27s.	158°	Weak.
Dec. 18 ✓	e E	02 43 .. 04 30 ca.			Confused by microseisms.
Dec. 18 ✓	e i i i e E	18 29.0 18 31 24 18 32 26 18 33 21 18 34 17 18 46		26°(?)	Very weak.
Dec. 20 ✓	e E	11 36 .. 12 43 ca.			Weak.
Dec. 22 ✓	e E	10 13 .. 11 20			Weak.

Date. 1956.	Phase.	G.M.T. h m s	Epicentre and time of shock.	$\Delta_{meas.}$	Remarks.
Dec. 18	i(S) i(SS) F	19 35 25. 19 38 44 20 26	USCGS: 36°S, 77°E. (Indian Ocean.) H = 19h 20m 06s.	47°	
Dec. 27	i(PP) i i(SKS) i(PPS) i i F	00 34 31. 00 35 57 00 39 27. 00 45 48 00 47 03 00 50 38 01 46 ca.	USCGS: 24°S. 177°W. (Region Tonga Isl.) H = 00h 14m 15s. h = 300 Km. ca.	120°	
Dec. 28	e F	14 52 .. 16 25			No distinct phases.
Dec. 29	e F	21 26 22 08			No distinct phases.

NOTE. The level of microsismic activity was above average during the following periods:-

Jul. 19 - 21;

Jul. 5 - 8; Jul. 15 - 16; Jul. 27 - 28; Jul. 29 - Aug. 2(microseismic storm Aug. 1); Aug. 8; Aug. 19 - 21 (microseismic storm Aug. 19); Aug. 26 - 27; Sep. 4 - 6; Sep. 15 -17 (microseismic storm); Sep. 22; Sep. 25 -27; Sep. 30; Oct. 5 - 6; Oct. 8 - 11 (microseismic storm Oct. 10); Oct. 14 - 15; Oct. 18 (microseismic storm) ; Oct. 14 - 15; Oct. 18 (microseismic storm); Oct. 21-23; Oct. 27; Dec. 18 - 19; Dec. 26 - 27.

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