MELBOURNE SEISMOLOGICAL STATION

PROVISIONAL BULLETIN, 1949

During the war, the old Melbourne Observatory was disbanded, but the seismographic equipment has been retained at the original locality, under the direction of the Department of Geology, University of Melbourne. Mr. A. J. Gaskin has been nominated as the officer in charge. No publications have been issued in the period 1940-1948, but records have been kept continuously, and data may be obtained on request.

Whilst modifications to the drive and timing apparatus were being made during 1949, the continuity of the records has been broken, and a number of shocks were not recorded, but the following notes on some principal shocks of the year are being distributed as a matter of interest.

The only instrument at present available is a Milne-Shaw (No.41) recording the E-W component, with a nominal free period of 12 seconds.

The foundation is bed-rock Silurian sandstone and mudstone, the height of the instrument above sea level is 28m., at 37° 49' 53.4" S.Lat.; 144° 58' 24.0" E.Long.

Time is checked daily against radio signals giving Eastern Australian Standard Time, and is correct to the nearest second.

Edwin S. Hills,
Professor of Geology.

S E I S M O L O G I C A L B U L L E T I N

MELBOURNE, AUSTRALIA

for the year 1949 (issued March, 1950).

A. J. GASKIN, SEISMOLOGIST

	Phase	U. T. h. m. s.	A	t	Remarks
1949					
Jan. 7	eP	17-28-10			
	iS	33-05			
	iL	35-45			
	M	45-40	2.3	12	
Jan. 13	eP	08-53-11			
	iS	57-30	3.0		Deep
Jan. 24	eP	09-22-52			
	iS	28-16			
	M	34-38	1.9	16	
Jan. 27	eP	07-25-33			New Britain
	eS	30-31			3°S. 152°E. (U.S.C.G.S.)
	iL	32-52			
	M	39-51	3.8	11	
Jan. 27	eP	15-06-03			Aftershock of preceding
	eS	11-00			
	iL	13-16			
	M	19-05	4.1	12	
Feb. 1	eP	18-23-24			New Guinea
	iS	28-23			2.5°S. 138°E. (U.S.C.G.S.)
	M	36-20	47.0	12	
Feb. 13	iP	18-30-31			
Mar. 16	iP	22-22-03			New Britain
	iS	27-00			6°S.151.5°E. (U.S.C.G.S.)
	M	34-11	10.5	12	
Mar. 17	iP	21-11-58			
	iS	17-01			Aftershock of preceding.
	M	23-54	9.3	12	
Mar. 19	iP(?)	18-39-27	3.0	7	Duration 2 minutes (Local?)
Mar. 27	iP	06-42-11			Celebes Sea, off S.coast
	i	44-13			of Mindanao.
	iS	48-15			
	M	52-15	24.5	21	
Apr. 23	iP	11-22-50			
	iS	28-26			
	M	40-01	8.0	13	
May 9	iP	13-47-20			
	iS	55-50			
Jun. 19	iP	08-46-28			
	iS	50-08			
	iL	51-26			

	Phase	U. T. h. m. s.	A	t	Remarks
1949					
Jun. 24	iP	22-47-26			
	iS	54-14			
	M	23-10-33	3.2	19	
Jul. 2	iP	11-31-52			
	eS	35-14			
	i	35-24			
	iL	35-50			
	M	37-26	37.0	10	
Jul. 2	eP	20-07-26			
	iS	14-13			
Jul. 10	iP	04-07-49			
	iPP	11-56			
	iSKS	18-24			
	i?S	19-30			
Jul. 23	iP	10-32-30			
	i	36-31			New Hebrides. 18.5°S.;
	iS	37-04			169°E. (U.S.C.G.S.)
Jul. 27	eP	11-09-50			
	i?S	16-02			
Jul. 27	iP	15-18-24			
	e	19-21			
	M	19-40	4.8	8	
	i?S	23-46			
Aug. 6	iP	00-43-10			
	i	45-20			
	i	46-15			
Aug. 22	i?PP	04-21-52			Near British Columbia.
	i?SKS	29-00			54°N.133°W.(U.S.C.G.S.)
	iSS	36-44			
Sep. 12	iP	09-22-20			Loyalty Is. region
	iS	27-10			22°S.170°E.(U.S.C.G.S.)
	M	32-10	5.0	18	
Sep. 14	iP	19-57-53			Celebes region.
	iPP	59-50			1°N.126°E. (U.S.C.G.S.)
	iS	04-10			
	M	18-30	17.0	20	
Sep. 20	i	12-01-12			
Sep. 24	eP	04-24-22			Solomons region.
	iS	29-09			6°S.154°E.
	M	35-42	9.4	11	
Sep. 25	e?S	02-49-12			
Oct. 19	iP	21-06-59			Solomons region.
	iS	11-14			5½°S. 154°E.
	M	23-55	23.2	19	
Oct. 20	iP	12-51-47			
	iS	57-05			
	M	01-50	17.8	8	

	Phase	U. T. h. m. s.	A	t	Remarks
1949					
Oct. 21	eP	21-41-15			
	iS	46-26			
Oct. 31	iP	18-02-19			
	iS	07-13			
	M	13-02	6.1	10	
Nov. 2	eP	02-39-18			
	iS	45-17			
	i?L	47-07			
	M	54-05	25.2	15	
Nov.7	iP	06-04-56			
	iS	09-55			
	M	18-45	22.7	14	
Nov. 22	e?P	00-57-03			Phases of similar amplitude throughout.
	i(?)	57-51	3.1	2	
	i?S	02-10			
Dec. 17	eP	07-06-00			Foreshock of Punta Arenas earthquake
	iPP	10-01			
	iS	16-20	8.3		
	M	31-20	11.4	26	
Dec. 17	eP	15-20-22			Magnitude $7\frac{1}{2}$;S. of Punta Arenas. 54°S. 71 W. (U.S.C.G.S.)
	iPP	24-14			
	iS	30-43			
	M	44-30	17.1	24	
Dec. 18	iP	05-44-50			Kermadec Is. 34°S. $179\frac{1}{2}$°E. (U.S.C.G.S.)
	iS	49-34			
Dec. 26	iP	06-30-21			
	iS	36-17			
Dec. 29	iP	03-13-02			
	iPP	16-00			
	iPPP	16-50			
	iS	21-24			
	M	35-20	16.0	13	