

## SEISMOLOGICAL BULLETIN FOR 1939

JULY, 1939

## MACROSEISMIC RECORD

- 5, ..... P. M. .... Oras, Samar. Earthquake.  
 10, 4<sup>h</sup> 53<sup>m</sup> [10, 12:53 P. M.?] Ormoc, Leyte. Oscillatory earthquake of intensity II and 15 seconds duration.  
 11, 22<sup>h</sup> 08<sup>m</sup> 49\* [12, 6:08:49 A. M.] Marinduque and Luzon. Felt very feebly at Boac and slightly at Catanauan.  
 13, 23<sup>h</sup> 38<sup>m</sup> [14, 7:38 A. M.] Iloilo, Iloilo. Earthquake of intensity III and 3 seconds duration.  
 16, 6<sup>h</sup> 55<sup>m</sup> 41\*\* [16, 2:55:41 P. M.] Libmanan, Camarines Sur. Feeble earthquake.  
 17, 19<sup>h</sup> 00<sup>m</sup> [18, 3:00 A. M.] Kabankalan, Negros Occidental. Gentle earthquake.  
 20, 2<sup>h</sup> 06<sup>m</sup> [20, 10:06 A. M.] NE Mindanao. Short earthquake felt with intensity II in Butuan, Dapa, and Port Lamon.  
 20, 11<sup>h</sup> 20<sup>m</sup> [20, 7:20 P. M.] Abuyog, Leyte. Slight earthquake.  
 21, 18<sup>h</sup> 30<sup>m</sup> [22, 2:30 A. M.] Santa Cruz, Laguna. Oscillatory earthquake of intensity II and 3 seconds duration.  
 27, 14<sup>h</sup> 18<sup>m</sup> [27, 10:18 P. M.] Maasin, Leyte. Earthquake of intensity II and 2 seconds duration.  
 28, 21<sup>h</sup> 44<sup>m</sup> [29, 5:44 A. M.] Baganga, Davao. Earthquake of intensity II and 5 seconds duration.  
 29, ..... Mati, Davao. Light earthquake.

## INSTRUMENTAL RECORD

No.	Date	Phase	Time	$\Delta$	Remarks
			<i>h. m. s.</i>	<i>Km.</i>	
407	1	ePNEZ SNE F	13 27 15 32 12 14 17	3,890	Probably deeper than normal.
409	2	ePNEZ SNE F	17 02 14 10 10 18 10	6,390	Probably deeper than normal.
410	2	IPZ SN F	19 53 06 20 00 34 21 05	5,910	Dilatation.
411	3	ePE SE F	5 41 14 43 00 55	1,000	
416	4	IP'IZ eP'INE P'IZ IE IE IN ISSNE LNE F	18 45 53 53 47 07 13 52 13 57 22 19 11 39 53 ca 20 50	18,745	Compression. 23°S: 67°W; h=300-400 Km. by U. S. C. G. S. 19.9°S: 67.3°W; h=300 Km. by J. S. A.
417	5	IPZ ePNE ISNE F	8 47 40 42 49 35 10 00	1,090	
419	5	IPZ IPN ISNE LNE MN F	22 51 05 09 59 48 23 12 30ca 16 30ca 0 45	7,155	Dilatation. Deep focus. 24°S: 179°W; h=500 Km. by U. S. C. G. S. 24°S: 180°W; h=550 Km. by J. S. A. 23°S: 178°E; h=600 Km. by Wellington.
420	6	ePNEZ SNE MNE F	1 15 58 19 54 25 ca 55	2,480	