

Apr 11 1955



MANILA OBSERVATORY
Mirador, Baguio City
Philippines

1955

MONTHLY SEISMOLOGICAL BULLETIN

Lat. N. 16° 24' 39"

Long. E. 120° 34' 47"

Alt. 1507 meters

Instruments (All Sprengnethers)

Hard Limestone Bedrock

<u>Type</u>	<u>Component</u>	<u>Period</u>		<u>Magnification (Dynamic)</u>	
		<u>Seism.</u>	<u>Galv.</u>	<u>Maximum</u>	<u>Synchronous</u>
Photographic	Z	1.44 sec	1.42 sec	2685	1910
	E-W	10.85 "	12.00 "	2545	1855
	N-S	1.82 "	1.60 "	4826	4930
Photoelectric. Visual recording.	N-S	11.90 "	12.00 "	Variable. Tests for	
	E-W	1.53 "	1.70 "	optimum magnification.	

JANUARY 1955

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
1221)	1 15 - 10 - 01 - 15	iPb iSb	Very small. $\Delta b = 121$ Km.
1222)	2 01 - 34 - 58 - 35 - 23	iPb iSb	Very small. $\Delta b = 219$ Km.
1223)	02 - 15 - 05 - 19 - 23±	iP eS	Very small. Possibly deep focus. If not, $\Delta = 2645 \pm$ Km. $\pm 23^{\circ}.8$
1224)	04 - 02 - 24 - 27	iPg iSg	Moderate. Ambuklao blast, 220 tons dynamite. $\Delta g = 23$ Km.
1225)	3 01 - 10 - 15± - 27	iPg iSg	Very small. $\Delta g = 102 \pm$ Km.
1226)	02 - 56 - 30 - 52	iPb iSb	Very small. $\Delta b = 192 \pm$ Km.
1227)	19 - 14 & 45 ff.		Teleseismic traces. Phases obscure.
1228)	4 01 - 30 - 16 - 36	iPb iSb	Very small. $\Delta b = 174$ Km.
1229)	02 - 25 - 20± - 48	iPb iSb	Very small. $\Delta b = 246 \pm$ Km.
1230)	07 - 42 - 36 - 43 - 23±	iPb iSb	Very small. $\Delta b = 417 \pm$ Km.
1231)	10 - 11 - 41± - 52±	iPg iSg	Very small. $\Delta g = 102 \pm$ Km.
1232)	12 - 01 - 16± - 22	iPg iSg	Very small. $\Delta g = 50 \pm$ Km.
1233)	5 01 - 01 - 47±	eP	Small. S indeterminate. Teleseismic.
1234)	01 - 58 - 41± - 59 - 50±	iPb iSb	Very small. $\Delta b = 613 \pm$ Km.

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
1235)	5 15 - 37 - 15	iPb	} Very small. $\Delta b = 156 \pm$ Km.
	- 33 \pm	iSb	
1236)	17 - 58 - 22	iP	} Small to mod. Dilat. $\Delta = 6345 \pm$ Km. = 57 $^{\circ}$.1.
	- 06 - 22 \pm	iS	
1237)	18 - 30 - 19	iPb	} Very small. $\Delta b = 148 \pm$ Km.
	- 36	iSb	
1238)	23 - 02 - 16	iPb	} Very small. $\Delta b = 210$ Km.
	- 40	iSb	
1239)	23 - 51 - 50	iP	} Small to mod. $\Delta = 6380 \pm$ Km. = 57 $^{\circ}$.4
	- 59 - 02 \pm	iS	
1240)	6 02 - 32 - 24 \pm	iP	} Very small. $\Delta = 6210 \pm$ Km. = 55 $^{\circ}$.9
	- 40 - 17 \pm	eS	
1241)	09 - 58 - 09 \pm	iP	} Very small. $\Delta = 6110 \pm$ Km. = 55 $^{\circ}$.0
	10 - 05 - 56 \pm	eS	
1242)	13 - 40 - 02	iPb	} Very small. $\Delta b = 363$ Km.
	- 43	iSb	
1243)	7 09 - 53 - 59 \pm	i	} Very small. Phases uncertain.
1244)	12 - 19 - 04	iPb	
	- 34 \pm	iSb	
1245)	23 - 56 - 22	iPg	} Small. Compr. to N \pm . $\Delta g = 58 \pm$ Km.
	- 29	iSg	
1246)	8 02 - 21 - 42	iPb	} Very small. $\Delta b = 381$ Km.
	- 22 - 26	iSb	
1247)	06 - 28 - 00	iPb	} Very small. Compr. $\Delta b = 228$ Km.
	- 26	iSb	
1248)	07 - 42 - 56 \pm	iP	} Small. Compr. $\Delta = 6235$ Km. = 56 $^{\circ}$.1
	- 50 - 50 \pm	eS	
1249)	09 - 05 - 30 \pm	i	} Phases difficult. Local. No time marks. Time only estimated.
1250)	13 - 13 - 31 \pm	iP	
	- 14 - 24 \pm	iS	
1251)	9 00 - 37 - 05	iPg	} Very small. Compr. $\Delta g = 84 \pm$ Km.
	- 15?	iSg	
1252)	07 - 29 - 19	iPb	} Very small. Dilat. to N \pm . $\Delta b = 129$ Km.
	- 34	iSb	
1253)	08 - 00 - ff.		} Small. Teleseismic traces.
1254)	10 - 19 - 55	iPb	
	20 - 14 \pm	iSb	
1255)	22 - 25 - 04	iPb	} Very small. Compr. No time marks. $\Delta b =$ 121 \pm Km.
	- 18	iSb	
1256)	11 13 - 52 - 12 \pm	iPb	} Very small. S uncertain.
1257)	13 02 - 14 - 32	iP	
	- 23 - 18 \pm	eS	
1258)	02 - 46 - 34	iP	} Very small. Compr. Mostly hidden in pre- vious quake. S not distinguishable. Probably aftershock.
1259)	15 15 - 17 - 52 \pm	iPg	
	18 - 02	iSg	



1260)	17	17 - 54 - 40± - 59 - 00±	ePb eL or M	} Very small. $\Delta b = \text{approx. } 1200 \text{ Km.}$
1261)		21 - 12 - 25± - 33	iPg iSg	} Very small. $\Delta g = 68 \pm \text{ Km.}$
1262)	18	13 - 18 - 04 - 38±	iPb iSb	} Very small. $\Delta b = 299 \text{ Km.}$
1263)	19	23 - 23 - 10 - 25 - 32	iPb eSb	} Very small. Compr. $\Delta b = 1200 \pm \text{ Km.}$
1264)	20	12 - 54 - 43 - 55 - 02±	iPb iSb	} Very small. Dilat. $\Delta b = 165 \pm \text{ Km.}$
1265)		13 - 50 - 59 - 51 - 04 or 21	iP iS	} Very small. $\Delta = 41 \text{ or } 191 \text{ Km.} \pm$
1266)	22	08 - 04 - 55 - 05 - 08	iPg iSg	} Small. $\Delta g = 109 \text{ Km.}$
1267)		18 - 05 - 59 - 06 - 29	iPb iSb	} Very small. $\Delta b = 228 \text{ Km.}$
1268)	23	14 - 10 - 15 + 18	iPg iSg	} Very small. $\Delta g = 23 \text{ Km.}$
1269)		22 - 29 - ff.	e	} Very small. Teleseismic traces.
1270)	24	01 - 30 - 30 - 31 - 30±	iPb iSb	} Very small. $\Delta b = 532 \pm \text{ Km.}$
1271)	25	15 - 02 - 23	iP	} Very small. S inteterminate.
1272)		15 - 31 - ±	e	} Very small. Teleseismic traces.
1273)	26	05 - 28 - 18 - 29 - 19±	iPb iSb	} Very small. Compr. $\Delta b = 543 \pm \text{ Km.}$
1274)		07 - 51 - 08 - 35	iPb iSb	} Very small. Compr. $\Delta b = 237 \pm \text{ Km.}$
1275)	27	06 - 31 - 02 - 09	iPg iSg	} Very small. Compr. to S±. $\Delta g = 58 \pm \text{ Km.}$
1276)		10 - 51 - 40 - 52 - 02 or 09±	iPb iSb	} Very small. $\Delta b = 192 \pm \text{ or } 255 \pm \text{ Km.}$
1277)		15 - 16 - 40 - 17 - 44±?	iPb iSb	} Small. Dilat. S difficult. $\Delta b = 569 \pm$
1278)	28	17 - 10 - 01 15 - 45?	iP iS	} Small. $\Delta = 3945 \pm \text{ Km.} = 35^\circ.5$. S difficult, solution only probable.
1279)	29	05 - 07 - 30± - 36±	iPg iSg	} Very small. $\Delta g = 50 \pm \text{ Km.}$
1280)		15 - 07 - 26 - 08 - 08±	iPb iSb	} Small. P cresc. S difficult. Dilat. to S±. $\Delta b = 372 \pm \text{ Km.}$
1281)		22 - 33 - 49 34 - ±	iPb iSb	} Very small. $\Delta b = 219 \pm \text{ Km.}$
1282)	30	15 - 34 - 07 - 40	iPb iSb	} Small. P cresc. S diffic. Compr. to SE. $\Delta b = 290 \pm \text{ Km.}$
1283)	31	05 - 23 - 18 - 28 - 50±	iP eS	} Very small. Dilat. $\Delta = 3755 \pm \text{ Km.} = 33^\circ.8$
1284)		16 - 09 - 47 - 15 - 53	iP eS	} Small to mod. Dilat. $\Delta = 4300 \pm \text{ Km.} = 38^\circ.7$
1285)		20 - 54 - 06± - 52	iPb iSb	} Very small. $\Delta b = 408 \pm \text{ Km.}$

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MONTHLY SEISMOLOGICAL BULLETIN

Lat. N. 16° 24' 39"

Long. E. 120° 34' 47"

Alt. 1507 meters

Instruments (All Sprengnethers)

Hard Limestone Bedrock

<u>Type</u>	<u>Component</u>	<u>Period</u>		<u>Magnification (Dynamic)</u>	
		<u>Seism.</u>	<u>Galv.</u>	<u>Maximum</u>	<u>Synchronous</u>
Photographic	Z	1.44 sec	1.42 sec	2685	1910
	E-W	10.85 "	12.00 "	2545	1855
	N-S	1.82 "	1.60 "	4826	4930
Photoelectric. Visual recording.	N-S	11.90 "	12.00 "	Variable. Tests for optimum magnification.	
	E-W	1.53 "	1.70 "		

FEBRUARY 1955

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
66)	1 12 - 17 - 18	iP	Very small. S indeterminate. Felt Tacloban Int. III.
67)	18 - 46 - 16	iP	Very small. Compr. $\Delta = 2410 \pm \text{Km.} = 21^\circ.7$. O = 18 - 41 - 24.
	- 50 - 15	iS	
68)	19 - 22 - 29	iP	Very small. $\Delta = 3735 \pm \text{Km.} = 33^\circ.7$. O = 19 - 15 - 45.
	- 28 - 00±	iS	
69)	2 10 - 42 - 03	iPg	Very small. $\Delta_g = 50 \pm \text{Km.}$
	- 09±	iSg	
70)	18 - 29 - 32±	iPb	Very small. $\Delta_b = 255 \pm \text{Km.}$
	- 30 - 01	iSb	
71)	19 - 25 - 54	iPg	Very small. $\Delta_g = 76 \pm \text{Km.}$
	- 26 - 03	iSg	
72)	3 01 - 35 - 26	iPg	Very small. $\Delta_g = 119 \pm \text{Km.}$
	- 40	iSg	
73)	06 - 52 - 54	iPg	Very small. $\Delta_g = 119 \pm \text{Km.}$
	- 53 - 08	iSg	
74)	09 - 24 - 57	iPg	Very small. $\Delta_g = 76 \pm \text{Km.}$
	- 25 - 06	iSg	
75)	16 - 10 - 35	iPg	Very small. $\Delta_g = 84 \pm \text{Km.}$
	- 45	iSg	
76)	19 - 06 - 47±	iPb	Very small. $\Delta_b = 138 \pm \text{Km.}$
	- 07 - 03	iSb	
77)	4 07 - 32 - 16	iP	Very small. Dilat. $\Delta = 6880 \pm \text{Km.} = 61^\circ.9$. O = 07 - 22 - 01.
	- 40 - 47±	iS	
78)	09 - 39 - 55	iPb	Very small. $\Delta_b = 165 \pm \text{Km.}$
	- 40 - 14±	iSb	
79)	5 02 - 07 - 21	iPb	Very small. $\Delta_b = 219 \text{ Km.}$
	- 46	iSb	

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
80)	5	09 - 56 - 00	iPg } Very small. Dilat. $\Delta g = 108$ Km.
		- 12	iSg }
81)		20 - 13 - 13	iPb } Very small. $\Delta b = 138$ Km.
		- 29	iSb }
82)		20 - 49 - 23	iP } Very small. $\Delta = 4490 \pm$ Km. = $40^\circ.4$.
		- 55 - 40 \pm	eS } 0 = 20 - 41 - 44.
83)		21 - 25 - 00	iPg } Very small. Dilat. to NW. $\Delta g = 41 \pm$ Km.
		- 05 \pm	iSg }
84)	6	02 - 05 - 08	iPg } Very small. Compr. to N \pm . $\Delta g = 23 \pm$ Km.
		- 11	iSg }
85)		03 ^h - 05 ^m to 35 ^m	Teleseismic traces.
86)		04 ^h 46 to 05 ^h - 05	Teleseismic traces.
87)		09 - 57 - 04	iPb } Very small. $\Delta b = 318$ Km.
		- 40	iSb }
88)		12 - 00 - 31	iPg } Very small. $\Delta g = 92$ Km.
		- 42	iSg }
89)		23 - 41 - 30	iPb } Very small. Dilat. $\Delta b = 138 \pm$ Km.
		- 46	iSb }
90)	8	04 - 17 - 58	iP } Very small. $\Delta = 1755 \pm$ Km. = $15^\circ.8$.
		- 21 - 02 \pm	iS }
91)		08 - 07 - 10	iPb } Very small. $\Delta b = 156$ Km.
		- 28	iSb }
92)		09 - 47 - 11	iPb } Very small. $\Delta b = 470$ Km.
		- 48 - 04	iSb }
93)	9	00 - 33 - 25 \pm	iPg } Very small. $\Delta g = 50 \pm$ Km.
		- 31 \pm	iSg }
94)		10 - 58 - ff.	Teleseismic traces, phases indiscernable.
95)		11 - 30 - 24	iPg } Very small. $\Delta g = 41 \pm$ Km.
		- 29	iSg }
96)		17 - 35 - 52	iPb } Very small. $\Delta b = 148 \pm$ Km.
		- 36 - 09	iSb }
97)		17 - 53 - 40	iPb } Very small. $\Delta b = 148 \pm$ Km.
		- 57	iSb }
98)		19 - 00 - 43	iPb } Very small. $\Delta b = 160 \pm$ Km.
		- 01 - 02	iSb }
99)		22 - 00 - 23	iPb } Very small. $\Delta b = 148 \pm$ Km.
		- 40	iSb }
100)	10	00 - 12 - 04	eP } Very small. Teleseismic. S not discerned.
101)	11	10 - 33 - 49	iPb } Very small. Compr. $\Delta b = 417 \pm$ Km.
		- 34 - 36 \pm	iSb }
102)	12	09 - 50 - 15	iPb } Small. $\Delta b = 345 \pm$ Km.
		- 54 \pm	iSb }
103)		11 - 41 - 06	iPb } Small. Dilat. $\Delta b = 129 \pm$ Km.
		- 21	eSb }
104)		15 - 16 - 16	iPb } Small. $\Delta b = 408 \pm$ Km.
		- 17 - 02 \pm	iSb }

	<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
105)	13	05 - 07 - 44	iPb } iSb }	Very small. $\Delta b = 138 \pm$ Km.
106)		- 08 - 00 \pm 17 - 25 - 35	iP	Very small. S indeterminate.
107)	14	16 - 56 - 48	iP } iS }	Medium. Compr. to SW. $\Delta = 1710 \pm$ Km. = $15^{\circ}.4$. 0 = 16 - 53 - 10. Felt Mambajao int II.
108)		- 59 - 48 \pm 19 - 30 - 39 \pm - 33 - 45 \pm	iP } eS }	Small. Compr. $\Delta = 1780 \pm$ Km. = $16^{\circ}.0$. Prob- ably aftershock. 0 = 19 - 26 - 54. Felt Mambajao int. I.
109)	15	06 - 29 - 50	iP } eS }	Small. Compr. S difficult. $\Delta = 7110 \pm$ Km. = $64^{\circ}.0$. 0 = 06 - 19 - 21.
110)		- 38 - 33 \pm - 30 - 56	iP	Very small. Hidden in previous quake! After- shock?
111)		13 - 15 - 00	iP	Very small. S indeterminate.
112)		18 - 51 - 23 \pm - 59 - 06 \pm	iP } eS }	Very small. Difficult. $\Delta = 6045 \pm$ Km. = $54^{\circ}.4$. 0 = 18 - 42 - 00 \pm .
113)	16	11 - 35 - 09	iP } ipP }	Small. Compr. to S \pm . Surface waves very small. $\Delta = 3000$ Km. = 27° . h = $250 \pm$ Km.
		35 - 46 39 - 22 40 - 40	iS } isS }	
114)		11 - 45 - 55	iP	Very small. S indefinite. Aftershock?
115)	17	07 - 24 - 15	iPb } iSb }	Very small. $\Delta b = 156 \pm$ Km.
		- 33 \pm		
116)		09 - 34 - 40	iPb } iSb }	Very small. $\Delta b = 148 \pm$ Km.
		- 57		
117)		17 - 21 - 30	iPb } iSb }	Very small. $\Delta b = 174 \pm$ Km.
		- 50		
118)	18	19 - 46 - 39 \pm	iP } eS }	Very small. $\Delta = 1735 \pm$ Km. = $15^{\circ}.6$. 0 = 19 - 42 - 58.
		- 49 - 41 \pm		
119)		22 - 56 - 39 \pm	iP } eS }	Very small. $\Delta = 5490 \pm$ Km. = $49^{\circ}.4$. 0 = 22 - 55 - 51.
		23 - 03 - 51 \pm		
120)	19	12 - 15 - 30	iPb } eSb }	Very small. Dilat. to N \pm . $\Delta b = 210 \pm$ Km.
		- 54		
121)		15 - 25 - 15	iPb } iSb }	Small to moderate. Compr. to S \pm . P cresc. \therefore diff. Felt: Masbate III, Tacloban III.
		- 24 - 21		
122)		19 - 55 - 54	iPg } eSg }	Very small. Compr. $\Delta g = 67 \pm$ Km.
		- 56 - 02 \pm		
123)	20	00 - 52 - 56	iPb } iSb }	Moderate to large. Compr. to SW. $\Delta b = 327 \pm$ Km.
		- 53 - 33 \pm		
124)		05 - 40 - 49	iPb } iSb }	Very small. $\Delta b = 389 \pm$ Km.
		- 41 - 33 \pm		
125)		22 - 51 - 18 \pm	iPb } iSb }	Very small. $\Delta b = 165 \pm$ Km.
		- 37 \pm		

	<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
126)	23	05 - 08 - 17 - 09 - 23±	iPb } iSb }	Very small. $\Delta b = 587 \pm$ Km.
127)		11 - 51 - 18 - 53 - 56	iPb } eSb }	Very small. $\Delta = 1480 \pm$ Km. = $13^\circ.3$. O = 11 - 48 - 07.
128)		20 - 06 - 48± - 07 - 02±	iPb } iSb }	Very small. $\Delta b = 121 \pm$ Km.
129)	24	06 - 22 - 37 - 23 - 09	iPb } iSb }	Small to mod. Compr. to SW. $\Delta b = 282$ Km.
130)		09 - 22 - 13±	iPg	Very small. S indeterminate.
131)		11 - 57 - 42 - 51	iPg } eSg }	Very small. $\Delta g = 76 \pm$ Km.
132)		14 - 35 - 26 - 37±	iPg } iSg }	Very small. Dilat. $\Delta g = 92 \pm$ Km.
133)	25	06 - 46 - 00 - 08±	iPg } iSg }	Very small. $\Delta g = 67 \pm$ Km.
134)		07 - 12 - 56 - 13 - 07	iPg } iSg }	Very small. Dilat. $\Delta g = 92 \pm$ Km.
135)		07 - 55 - 48± - 57 - 06±	iPb } iSb }	Very small. $\Delta b = 730 \pm$ Km.
136)		15 - 55 - 30 - 36±	iPg } iSg }	Very small. $\Delta g = 49 \pm$ Km.
137)	26	00 - 36 - 47 - 37 - 37	iPb } iSb }	Very small. Dilat. to NW. $\Delta b = 444 \pm$ Km.
138)		21 - 50 - 28 - 37	iPg } iSg }	Very small. $\Delta g = 76 \pm$ Km.
139)	27	19 - 25 - 48±		Very small. S indeterminate.
140)		20 - 55 - 13 21 - 04 - 53±	iP } iS }	Very large; major quake. Possibly deep focus. $\Delta = 8265 \pm$ Km. = $74^\circ.6 \pm$ Honolulu places quake 30° S. - 173° W. near Kermadec Deep.
141)	28	20 - 55 - ±	iP	Very small. Dilat. No time marks. Teleseism.
142)		22 - 04 - ±	iP	Very small. No time marks. S-P = 8^s . $\Delta g = 67 \pm$ Km.



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MONTHLY SEISMOLOGICAL BULLETIN

N.B. Due to the absence of Father Deppermann in the United States from April through one-half of September, the issuance of Seismic Bulletin has been delayed. We intend now to keep up-to-date in our Reports. The missing months will be gotten out gradually.

Lat. N. 16° 24' 39" Long. E. 120° 34' 47" Alt. 1507 meters

Instruments (All Sprengnethers) Hard Limestone Bedrock

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Photoelectric Visual recording.	N-S	11.90 "	12.00 "	Variable. Tests for optimum magnification.	
	E-W	1.53 "	1.70 "		

MARCH 1955

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143)	1 02 - 06 - 12	iP	Very small. S indeterminate.
144)	04 - 55 - 14	iP	Small. Approx.; no time marks. $\Delta = 8935 \pm$ Km. = $80^{\circ}.4$. 0 = 04 - 32 - 57.
	05 - 05 - 22	iS \pm	
145)	10 - 21 - 34	iPb	Very small. $\Delta b = 246 \pm$ Km.
	- 22 - 02 \pm	iSb	
146)	14 - 14 - 44	iPb	Very small. $\Delta b = 138 \pm$ Km.
	15 - 00 \pm	eSb	
147)	14 - 46 - 52	iP	Small. Compr. $\Delta = 2790 \pm$ Km. = $25^{\circ}.1$. 0 = 14 - 41 - 26.
	- 51 - 20	iS	
148)	17 - 45 - ff.		Small. Teleseismic traces on EL.
149)	2 01 - 26 - 11		Very small. Diat. to S. S indeterminate.
150)	01 - 44 - 07	iP	Small. Small compr. then large dilat. to SE? $\Delta = 4355 \pm$ Km. = $39^{\circ}.2$. 0 = 01 - 36 - 38.
	- 50 - 17	iS	
151)	04 - 31 - 31	iPb	Very small. $\Delta b = 317$ Km.
	- 32 - 07	iSb	
152)	3 02 - 49 - 34 \pm	iPb	Very small. $\Delta b = 156 \pm$ Km.
	- 52	iSb	
153)	04 - 32 - 00 \pm	iP	Very small. $\Delta = 2590 \pm$ Km. = $23^{\circ}.3$. 0 = 04 - 26 - 52.
	36 - 13 \pm	eS	

Date	Time (GMT)	Phase	Remarks
154)	4 02 - 16 - 10±	iPg	Very small. Compr. $\Delta g = 84\pm$ Km.
	- 20	iSg	
155)	10 - 41 - 55±	iPg	Very small. $\Delta g = 76\pm$ Km.
	- 42 - 04	iSg	
156)	11 - 43 - 38	i	Very small.
157)	23 - 35 - 11	iPb	Very small. $\Delta b = 183$ Km.
	- 32	iSb	
158)	5 01 - 26 - 45	iPg	Very small. $\Delta g = 109\pm$ Km.
	- 58	iSg	
159)	05 - 33 - 41	iP	Small. Dilat. $\Delta = 2390\pm$ Km. = $21^{\circ}.5$. O = 05 - 28 - 51. But possibly deep focus. cf. quake #1213, Dec. 27/54.
	- 36 - 38	iS	
160)	05 - 44 - 49±	ePb	VS very small. $\Delta b = 255\pm$ Km.
	45 - 18	eSb	
161)	12 - 46 - 11	iPg	Very small. $\Delta g = 109\pm$ Km.
	- 24	iSg	
162)	23 - 58 - 04	iPg	Small. Blast Ambuklao? $\Delta g = 23\pm$ Km.
	- 07	iSg	
163)	6 06 - 23 - 49	iP	Very small. Teleseismic. S indeterminate.
164)	10 - 57 - 18	iPb	
	- 59 - 00±	iSb	Moderate. $\Delta b = 910$ Km.±. Possibly slightly deep focus. S difficult.
165)	13 - 35 - 20	iPb	Moderate. $\Delta b = 910\pm$ Km. cf. above.
	- 37 - 02±	iSb	
166)	16 - 01 - 08	iPb	Very small. $\Delta b = 892\pm$ Km. Aftershock of previous quake.
	02 - 47±	eSb	
167)	17 - 26 - 13±	iP	Very small. S indeterminate.
168)	7 04 - 54 - 48	iP	Very small. Compr. $\Delta = 6480\pm$ Km. = $58^{\circ}.3$. O = 04 - 44 - 56.
	05 - 02 - 56±	eS	
169)	8 15 - 28 - 42	iPb	Very small. Dilat. to NW. $\Delta b = 156\pm$ Km.
	- 29 - 00	iSb	
170)	17 - 39 - 42	iPb	Very small. $\Delta b = 336\pm$ Km.
	- 40 - 20	iSb	
171)	22 - 37 - 09	iPb	Very small. $\Delta b = 138$ Km.
	- 25	iSb	
172)	07 - 38 - 13	iPg	Very small. $\Delta g = 92\pm$ Km.
	- 34	iSg	
173)	9 00 - 31 - 31	iPn	Small. Compr. to SE. S difficult. $\Delta n = 946\pm$ Km.
	- 33 - 10±	eSn	
174)	05 - 48 - 01	iP	Very small. Compr. S very difficult. $\Delta = 4735\pm$ Km.
	- 54 - 31±	eS	
175)	09 - 21 - 07	iP	Very small. Compr. S difficult. $\Delta = 1390\pm$ Km.
	- 23 - 36±	eS	
176)	16 - 25 - 57	iPb	Very small. $\Delta b = 145$ Km.
	26 - 23	iSb	
177)	23 - 29 - 04	iPb	Very small. $\Delta b = 138$ Km.
	- 20	iSb	

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
178)	10 04 - 44 - 12	iPb	VS very small. Compr. to S [±] . $\Delta b = 228$ Km.
	- 38	iSb	
179)	18 - 49 - 00	iPg	Very small. Dilat. to N [±] . $\Delta g = 33^{\pm}$ Km.
	- 04	iSg	
180)	21 - 31 ^m ff. 41 ^m ff.		Teleseismic traces.
181)	11 04 - 47 - 20	iPg	Very small. $\Delta g = 92^{\pm}$ Km.
	- 31 [±]	iSg	
182)	17 - 05 - 36	iPg	Very small. $\Delta g = 109^{\pm}$ Km.
	- 49	iSg	
183)	18 - 09 - 11	Long wave traces	Small. Peculiar if teleseismic traces. May be from jet planes breaking sound barrier.
	18 - 20 - 22		
	18 - 26 - 29		
184)	21 - 52 - 02 [±]	iPg	Very small. $\Delta g = 102^{\pm}$ Km.
	- 14 [±]	iSg	
185)	23 - 35 - 03	iPb	Moderate. Dilat. to SE [±] . Felt Dipolog, Mindanao IV. S difficult. $\Delta = 840^{\pm}$ Km.
	- 36 - 37 [±]	iSb	
186)	12 09 - 34 - 09	iPg	Very small. $\Delta g = 85^{\pm}$ Km.
	- 39 [±]	iSg	
187)	13 - 34 - 44	iPb	Very small. $\Delta b = 533^{\pm}$ Km.
	- 35 - 44 [±]	iSb	
188)	13 04 - 11 - 54	iP	Very small. S uncertain.
189)	04 - 29 - 13 [±]	iPb	Very small. $\Delta b = 257^{\pm}$ Km.
	- 55 [±]	iSb?	
190)	05 - 25 - 07	iPb	Very small. Dilat. $\Delta b = 275^{\pm}$ Km.
	- 26 - 34 [±]	eSb	
191)	19 - 36 - 29	iPb	Small. P cresc. S indet.
192)	14 02 - 15 - 40	iP	Small. Heavy micros. Dilat. to S [±] . S difficult. $\Delta = 1880^{\pm}$ Km. = $16^{\circ}.9$. $\theta = 02 - 11 - 44$.
	- 18 - 55 [±]	eS	
193)	11 - 36 - 26	iPb	Very small. $\Delta b = 129^{\pm}$ Km.
	- 41	iSb	
194)	12 - 03 - 31	iPg	Very small. $\Delta g = 58^{\pm}$ Km.
	- 38 [±]	iSg	
195)	13 - 22 - 21	iP	Small. Compr. to N [±] . Deep focus, 160^{\pm} Km. $\Delta_{160} = 7220^{\pm}$ Km. = $65^{\circ}.0$. $\theta = 13 - 11 - 46$.
	- 22 - 54	ipP	
	- 30 - 40 [±]	iS	
	- 31 - 57 [±]	isS	
196)	17 - 21 - 29	iP	Very small. Dilat. S indeterminate.
197)	15 01 - 07 - 38 [±]	iPb	Very small. $\Delta b = 219^{\pm}$ Km.
	- 08 - 03	iSb	
198)	10 - 00 - 18	iPb	Very small. $\Delta b = 183$ Km.
	- 39	iSb	
199)	13 - 40 - 20	iPb	Very small. $\Delta b = 138$ Km.
	- 36	iSb	
200)	16 11 - 19 - 28	iPg	Very small. $\Delta g = 103^{\pm}$ Km.
	- 40 [±]	iSg	
	20 - 14 - 30 [±]	iP	Small. S indeterminate.
		S?	

	<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
202)	17	10 - 46 - 55	iPb	Very small. $\Delta b = 228 \pm$ Km.
		47 - 21	iSb	
203)		12 - 16 - 49	iPg	Very small. $\Delta g = 76 \pm$ Km.
		- 58	iSg	
204)	18	00 - 15 - 31	iP	Moderate to small. Compr. to NE. $\Delta = 5300 \pm$ Km. = $47^{\circ}.7$.
		22 - 33	iS	
205)		03 - 03 - 46	iPg	Small. $\Delta g = 32 \pm$ Km.
		- 50 \pm	iSg	
206)	19	18 - 23 - 21	iPb	Small. Compr. $\Delta b = 177$ Km.
		- 53	iSb	
207)	20	05 - 08 - 02	iPb	Very small. $\Delta b = 156$ Km.
		- 20	iSb	
208)		08 - 36 - 14	iP	Very small. S indecisive. Δ probably ~ 1000 Km.
209)		15 - 57 - 17	iPb	Very small. $\Delta = 129 \pm$ Km.
		- 32	iSb	
210)	21	04 - 54 - 12	iPb	Very small. $\Delta b = 784 \pm$ Km.
		55 - 40	iSb	
211)		12 - 18 - 30	iPb	Small. $\Delta b = 237$ Km.
		- 57	iSb	
212)		13 - 07 - 02	iP	Small. Compr. $\Delta = 2635$ Km. = $23^{\circ}.7$.
		11 - 19	iS	
213)	22	06 - 19 - 06	iP	Small to mod. Small dilat. large compr. $\Delta = 2600$ Km. = $23^{\circ}.4$.
		25 - 20	iS	
214)		12 - 00 - 23	iPg	Small. Dilat. $\Delta g = 109$ Km.
		- 36	iSg	
215)		14 - 12 - 26	iPb	Small. Compr. $\Delta b = 847 \pm$ Km.
		- 14 - 01	iSb	
216)	23	05 - 01 - 56	iP	Very small. S indeterminate. Very small. $\Delta b = 685 \pm$ Km.
217)		05 - 12 - 13	iPb	
		- 13 - 30	iSb	Very small. $\Delta b = 694 \pm$ Km.
218)		15 - 58 - 02	iPb	
		59 - 20	iSb?	
219)		22 - 29 - 05	iPb	Small to moderate. $\Delta b = 658 \pm$ Km.
		30 - 20?	iSb	
220)	24	04 - 45		Traces of microseism.
221)		08 - 31 - 31	iPb	Very small. $\Delta b = 255 \pm$ Km.
		32 - 00	iSb	
222)		21 - 39 - 12	iPb	Very small. $\Delta b = 568$ Km.
		40 - 27	iSb	

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
223)	25 02 - 21 - 51	iP	Very small. $\Delta = 2180$ Km. = $19^{\circ}.6$.
	25 - 31	iS	
224)	08 - 02 - 21	iPb	Small. Compr. $\Delta_g = 76$ Km.
	- 30	eSb	
225)	26 01 - 04 - 09	iPb	Small. $\Delta_b = 623$ Km.
	05 - 19	iSb	
226)	27 14 - 00 - 44	iPb	Small. Compr. $\Delta_b = 459$ Km.
	01 - 36	iSb	
227)	14 - 45 - 05	iP	Very small. $\Delta = 3290^{\pm}$ Km. = $29^{\circ}.6$.
	50 - 08	eS	
228)	14 - 55 - 25	iPb	Very small. $\Delta_b = 255^{\pm}$ Km.
	- 54	iSb	
229)	28 08 - 04 - 47	iPg	Very small. $\Delta_g = 112^{\pm}$ Km.
	05 - 00	iSg	
230)	08 - 40 - 58	iPb	Very small. $\Delta_b = 389$ Km.
	41 - 42	iSb	
231)	09 - 15 - 56	iP	Small. $\Delta = 1755$ Km. = $15^{\circ}.8$.
	19 - 00 $^{\pm}$	iS	
232)	30 13 - 55 - 23	iPb	Small. Dilat. $\Delta_b = 444$ Km.
	56 - 13	iSb	
233)	31 07 - 57 - 11	iPb	Small. Small compr., larger dilat. $\Delta_b = 156$ Km.
	29	iSb	
234)	18 - 19 - 20	iPb	Very large. Mindanao quake. cf. Diliman report. S indeterminate.
235)	20 - 55 - 00	iPb	Small. S indeterminate.
236)	23 - 43 - 09	iPb	Small to mod. $\Delta_b = 535$ Km. ??? Many small aftershocks.
	44 - 09	iSb	

- o - 0 - o -
- 0 - 0 -
- o -
-

MANILA OBSERVATORY
Mirador, Baguio City
Philippines



MONTHLY SEISMOLOGICAL BULLETIN

Lat. N. 16° 24' 39"

Long. E. 120° 34' 47"

Alt. 1507 meters

Instruments (All Sprengnethers)

Hard Limestone Bedrock

<u>Type</u>	<u>Component</u>	<u>Period</u>		<u>Magnification (Dynamic)</u>	
		<u>Seism.</u>	<u>Galv.</u>	<u>Maximum</u>	<u>Synchronous</u>
Photographic	Z	1.44 sec	1.42 sec	2685	1910
	E-W	10.85 "	12.00 "	2545	1855
	N-S	1.82 "	1.60 "	4826	4930
Photoelectric Visual recording.	N-S	11.90 "	12.00 "	Variable. Tests for optimum magnification.	
	E-W	1.53 "	1.70 "		

APRIL 1955

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
237)	1		NB. Only about 18 aftershocks, very small.
238)	2		3 very small aftershocks at 04 - 32 - 07, 10 - 29 - 44, 10 - 57 - 14.
239)	3	01 - 20 - 37	iPb } Small. Dilat. $\Delta b = 264$ Km.
		21 - 07	iSb }
240)		01 - 57 - 10	iPg } Small. Dilat. $\Delta g = 23$ Km. to SW.
		- 13	iSg }
241)		05 - 06 - 20	iPg } Very small. $\Delta g = 23$ Km.±
		- 23±	iSg }
242)		05 - 07 - 01	iP } Small. Compr. $\Delta = 2645 \pm$ Km. = $23^\circ.8$. Felt
		11 - 19±	eS } Cotabato II, Davao II.
243)		16 - 21 - 28	iPb } Small to moderate. Small compr. large dilat.
		- 22 - 05	iSb } $\Delta b = 327$ Km. Felt Calayan V.
244)		18 - 41 - 36	iPb } Very small. $\Delta b = 232$ Km.
		- 42 - 02	iSb }
245)	4	04 - 13 - 45	iP } Very small. Compr. to S±. $\Delta = 2535$ Km. =
		17 - 54	eS } $22^\circ.8$.
246)		11 - 12 - 46	iP } Moderate to large. Compr. to NW? S inde-
			minate. Deep focus?
247)		13 - 36 - 30	iPb } Very small. $\Delta b = 291$ Km. ±.
		37 - 03	iSb }
248)		14 - 15 - 00	iPb } Very small. $\Delta b = 444 \pm$ Km.
		- 50	iSb± }
249)		20 - 20±	
			Teleseismic traces.
250)		21 - 42 - 53	iPb } Very small. $\Delta b = 731$ Km.
		44 - 14	iSb }
251)	5	02 - 38 - 05	iPb } Small compr. $\Delta b = 165$ Km. Felt Iba III.
		- 24	iSb }

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
252)	5	02 - 46 - 34 - 51	iPb } iSb } Very small. $\Delta b = 148 \pm$ Km. Felt Mambajao I.
253)		02 - 48 - 44 - 54	iPg } iSg } Very small. $\Delta g = 84$ Km.
254)		03 - 10 - 24	iP Very small. S indeterminate. Felt Cagayan, Cotabato, Mambajao, all III.
255)		11 - 28 - 03 - 31 - 55	iP } eS } Very small. Deep focus? Compr. to S \pm ? $\Delta = 2520$ Km.
256)		13 - 50 - 13	iP Very small. S indeterminate.
257)		14 - 04 - 02 - 05 - 28	iPb } iSb } Small to moderate. $\Delta = 758$ Km.
258)		14 - 29 - 12	iP Very small. S indeterminate.
259)	6	01 - 30 - 14 - 30	iPb } iSb } Small. Compr. to N \pm . $\Delta b = 138$ Km.
260)		01 - 38 - 22 - 30 \pm	iPg } iSg } Small. P cresc. small compr. large dilat. $\Delta g = 57$ Km.
261)		05 - 57 - 04 - 20	iPb } iSb } Very small. $\Delta = 138$ Km.
262)		10 - 24 - 44	iP Very small. S indeterminate.
263)		13 - 01 - 22 11 - 43?	iP } iS } Very small. $\Delta = 9220$ Km. = 83 $^{\circ}$.
264)		15 - 17 - 55 - 18 - 04	iPg } iSg } Very small. Dilat. $\Delta g = 76$ Km.
265)		19 - 58 - 53	iP Very small. Compr. S indeterminate.
266)	7	04 - 14 - 46	iP Very small. S indeterminate.
267)	8	01 - 50 - 21 - 40	iPb } iSb } Very small. Compr. $\Delta b = 165$ Km.
268)		02 - 46 - 16 - 30	iPg } iSg } Very small. $\Delta g = 118$ Km.
269)		03 - 09 - 38 - 11 - 20 \pm	iPb } iSb } Small. Compr. $\Delta b = 910$ Km. Felt Mambajao II, Dumaguete I.
270)		04 - 23 - 45 - 24 - 00	iPb } iSb } Very small. $\Delta b = 129$ Km.
271)		16 - 20 - 14 31	iPb } iSb } Very small. $\Delta b = 147$ Km.
272)	9	04 - 47 - 04 30	iPb } iSb } Very small. $\Delta b = 228$ Km.
273)		05 - 32 - 55 33 - 19	iPb } iSb } Very small. $\Delta b = 210$ Km.
274)		14 - 36 - 05 - 15	iPg } iSg } Very small. Dilat. to N \pm . $\Delta g = 84$ Km.
275)	10	05 - 41 - 28	iP Very small. S indeterminate.
276)		17 - 40 - 31	iP Moderate. S indeterminate. Felt Cagayan, Cotabato, Dipolog VI, Malaybalay V, Cebu IV, Zamb. III, Surigao, Davao, Dadiangan, Iloilo II, Dumaguete I. P.I. aftershock, many injured, Lanao Province.

	<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
277)	11	00 - 57 - 18	iP	Very small. S indeterminate.
278)		03 - 44 - 52	iP	Very small. S indeterminate.
279)		09 - 32 - 47	iPb	Very small. Compr. to S [±] . $\Delta b = 901 \pm$ Km. Felt Mambajao, Cotabato III.
		34 - 28	eSb	
280)		16 - 31 - 48	iP	Very small. $\Delta = 1310$ Km. = $11^{\circ}.8$.
		34 - 10	iS	
281)	12	04 - 29 - 30	iPb	Very small. $\Delta b = 155$ Km.
		- 45	iSb	
282)		05 - 15 - 33	iPb	Very small. $\Delta b = 155$ Km.
		- 51	iSb	
283)		05 - 37 - 51	iP	Very small. Dilat. to S [±] . $\Delta = 1165$ Km. = $10^{\circ}.5$.
		- 40 - 40 [±]	eS	
284)		13 - 37 - 20	iP	Very small. Dilat. $\Delta = 1720$ Km. = $15^{\circ}.5$. Felt Mambajao II.
		40 - 21	eS	
285)		21 - 53 - 31	iPg	Very small. $\Delta g = 58$ Km.
		- 38	iSg	
286)	13	11 - 00 - 06	i	Very small. S indeterminate.
287)		11 - 41 - 54 [±]	iPb	Small. S difficult. $\Delta b = 927 \pm$ Km.
		43 - 38 [±]	iSb	
288)		16 - 27 - 24	iP	Very small. S indeterminate.
289)		20 - 58 - 33	iP	Very small. S indeterminate.
290)		23 - 55 ff.		Teleseismic traces. Small.
291)	14	01 - 04 - 09	iPb	Very small. $\Delta b = 129$ Km.
		- 24	iSb	
292)		01 - 33 - 58	iP	Moderate to large. Dilat. to NW? $\Delta = 2455$
		38 - 00	iS	
293)		06 - 12 - 56	iPg	Small. P cresc. compr. $\Delta g = 102$ Km.
		13 - 08	iSg	
294)		06 - 25 - 58	iPb	Small. P cresc. compr. $\Delta b = 138$ or 282 Km.
		26 - 14 or		
		30	iSb	
295)		14 - 02 - 00	iPb	Very small. $\Delta b = 264$ Km.
		- 30	iSb	
296)		20 - 49 - 42	iP	Very small. S indeterminate.
297)	15	03 - 49 - 21	iP	Small to moderate. Compr. to NW? $\Delta = 4955$ Km. = $44^{\circ}.6$.
		56 - 03	iS	
298)		04 - 21 - 56	i	Very small. S indeterminate.
299)		11 - 56 - 24	iPg	Very small. $\Delta g = 102$ Km.
		- 36	iSg	
300)		14 - 59 - 56	iPb	Very small. Compr. to S? $\Delta b = 927$ Km.
		- 01 - 40	iSb	
301)		17 - 36 - 28 [±]	iPb	Very small. $\Delta b = 228$ Km.
		- 54 [±]	iSb	
302)		18 - 43 - 51	iPg	Very small. $\Delta g = 109 \pm$ Km.
		44 - 04	iSg	
303)	16	03 - 50 - 30	i	Very small.
304)		04 - 47 - 01	iP	Very small. S difficult. $\Delta = 1910 \pm$ Km. = $17^{\circ}.2$.
		50 - 19	eS	

	<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
305)	16	07 - 20 - 30	i	Very small.
306)		07 - 32 - 59	iPb	} Very small. $\Delta b = 165$ Km.
		- 33 - 18	iSb	
307)		07 - 36 - 13	iPb	} Very small. $\Delta b = 183$ Km.
		- 34	iSb	
308)		12 - 27 - 25	iPg	} Very small. $\Delta g = 109^{\pm}$ Km.
		- 38	iSg	
309)		20 - 15 ff.		Teleseismic traces.
310)	17	06 - 08 - 42 [±]	iPb	} Very small. $\Delta = 1255^{\pm}$ Km. = 11 [°] .3.
		- 10 - 59	iSb	
311)		09 - 53 - 07	iPb	} Small. $\Delta b = 291$ Km.
		- 40	iSb	
312)		10 - 12 - 22	iPb	} Very small. $\Delta b = 308$ Km.
		- 57	iSb	
313)		11 - 00 - 10	i	Very small.
314)		15 - 23 - 15	i	Very small.
315)		18 - 43 - 57	iP	} Small. $\Delta = 5235$ Km. = 47 [°] .1.
		- 50 - 55	eS	
316)		20 - 01 - 33	iPg	} Very small. $\Delta g = 84^{\pm}$ Km.
		43	iSg	
317)		22 - 43 - 53	i	Very small.
318)		23 - 28 - 31	i	Very small.
319)	18	05 - 32 - 39	iPb	} Very small. $\Delta b = 497$ Km.
		33 - 35	iSb	
320)		08 - 50 - 15	iP	} Small. $\Delta = 1440^{\pm}$ Km. = 12 [°] .9.
		52 - 49	eS	
321)		22 - 00 - 29	iPb	} Very small. $\Delta b = 543^{\pm}$ Km.
		01 - 30	iSb	
322)	19	04 - 04 - 44	iPg	} Small. Dilat. to N [±] . $\Delta g = 102$ Km.
		- 56	iSg	
323)		07 - 00 - 20	eP	} Very small. $\Delta = 1290^{\pm}$ Km. = 11 [°] .6.
		02 - 40 [±]	eS	
324)		07 - 31 - 31	iP	} Very small. $\Delta = 1580$ Km. = 14 [°] .2.
		34 - 18 [±]	iS	
325)		10 - 10 - 39	iPg	} Very small. $\Delta g = 41^{\pm}$ Km.
		- 44	iSg?	
326)		15 - 00 - 46	iPb	} Very small. $\Delta b = 829$ Km.
		02 - 19	eSb	
327)		16 - 34 - 44	iPb	} Very small. $\Delta b = 219$ Km.
		35 - 09	iSb	
328)		16 - 22 - 09	iPb	} Very small. $\Delta b = 183$ Km.
		- 30	iSb	
329)		16 - 51 - 40	i	Very small.
330)		20 - 44 - 44	iPg	} Very small. $\Delta g = 40$ Km. [±]
		- 49	iSg	
331)		23 - 56 - 12	i	Very small. Local.
332)	20	01 - 20 - 43	iP	Very small. Compr. S indeterminate. Cagayan, Cotabato, Dipolog all felt III.
333)		06 - 11 - 53	i	Very small. Teleseismic. S difficult.

	<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
334)	20	09 - 48 - 01	iP	Small. $\Delta = 1665$ Km. = $15^{\circ}.0$.
		50 - 57	eS	
335)		14 - 44 - 45	iP	Very small. S indeterminate.
336)	21	07 - 30 - 59	iP	Very small. S indeterminate.
337)		09 - 14 - 39	iPg	Very small. $\Delta g = 92$ Km.
		- 50	iSg	
338)	22	16 - 34 - 50	iPg	Very small. Compr. $\Delta g = 76 \pm$ Km.
		- 59	iSg	
339)	23	01 - 42 - 24	iPg	Very small. $\Delta g = 58$ Km.
		- 31	iSg	
340)		02 - 35 - 11	iP	Very small. $\Delta = 1180$ Km. = $10^{\circ}.6$.
		- 37 - 21	eS	
341)		16 - 43 - 14	iP	Very small. $\Delta = 1910$ Km. = $17^{\circ}.2$. Compr.
		46 - 32	eS	
342)		19 - 52 - 48	iP	Very small. S not clear.
343)		21 - 30 - 50	iP	Very small. S indeterminate.
344)		18 - 51 - 25	iP	Very small. S indeterminate.
345)	24	08 - 05 - 21	iP	Very small. S indeterminate.
346)		13 - 07 - 00	iP	Very small. $\Delta = 4355$ Km. = $39^{\circ}.2$.
		13 - 20	iS	
347)	25	07 - 44 - 05	iPb	Very small. $\Delta b = 183 \pm$ Km.
		45 - 25	iSb	
348)	26	08 - 41 - 52	iP	Very small. Compr. S indeterminate.
349)		19 - 46 - 19	iPb	Very small. $\Delta b = 246$ Km.
		- 47	iSb	
350)	27	12 - 38 - 52	iPb	Very small. $\Delta b = 389$ Km.
		39 - 36	iSb	
351)		15 - 44 - 46	iPb	Very small. $\Delta b = 273$ Km.
		45 - 17	iSb	
352)		17 - 02 - 56	iPb	Very small. Compr. $\Delta b = 264$ Km.
		03 - 26	iSb	
353)	28	05 - 15 - 08	iP	Small. $\Delta = 6410$ Km. = $57^{\circ}.7$.
		23 - 12	eS	
354)	29	19 - 31 - 52	iPg	Very small. $\Delta g = 67$ Km.
		32 - 00	iSg	
355)	30	02 - 35 - 52	iPb	Very small. $\Delta b = 317$ Km.
		36 - 28	iSb	
356)		11 - 24 - 20 \pm	i	Very small.
357)		13 - 40 - 58	iPb	Small. $\Delta b = 129$ Km.
		41 - 13	iSb	
358)		14 - 15 - ff.		Teleseismic traces.
359)		21 - 49 - 45	iPb	Very small. $\Delta b = 174$ Km.
		50 - 05	iSb	

MANILA OBSERVATORY
Mirador, Baguio City
Philippines



MONTHLY SEISMOLOGICAL BULLETIN

Lat. N. $16^{\circ} 24' 39''$

Long. E. $120^{\circ} 34' 47''$

Alt. 1507 meters

Instruments (All Sprengnethers)

Hard Limestone Bedrock

<u>Type</u>	<u>Component</u>	<u>Period</u>		<u>Magnification (Dynamic)</u>	
		<u>Seism.</u>	<u>Galv.</u>	<u>Maximum</u>	<u>Synchronous</u>
Photographic	Z	1.44 sec	1.42 sec	2685	1910
	E-W	10.85 "	12.00 "	2545	1855
	N-S	1.82 "	1.60 "	2826	4930
Photoelectric Visual recording	N-S	11.90 "	12.00 "	Variable. Tests for optimum magnification.	
	E-W	1.53 "	1.70 "		

MAY 1955

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
360)	1 10 - 01 - 36	iP	Very small. $\Delta = 3355 \text{ Km.} = 30^{\circ}.2$
	06 - 43	iS	
361)	13 - 28 - 53	iPb	Very small. $\Delta b = 273 \text{ Km.}$
	29 - 24	iSb	
362)	14 - 05 - 06	iP	Small. $\Delta = 3210 \text{ Km.} = 28^{\circ}.9.$
	- 10 - 04	iS	
363)	2 00 - 37 - 38	iPg	Very small. Compr. $\Delta g = 102 \text{ Km.}$
	50	iSg	
364)	12 - 44 - 23	iP	Very small. Compr. Difficult. $\Delta = 2635 \text{ Km.}$ $= 23^{\circ}.7.$
	- 45 - 03	iPR ₂	
	- 48 - 40	iS	
365)	3 04 - 54 - 56	iPb	Very small. $\Delta b = 136 \text{ Km.}$
	55 - 12	iSb	
366)	05 - 05 - 15 \pm	iPg	Very small. $\Delta g = 41 \text{ Km}\pm.$
	20 \pm	iSg	
367)	12 - 05 - 00	iPb	Very small. $\Delta b = 138 \text{ Km.}$
	- 16	iSb	
368)	15 - 24 - 33	iP	Very small. $\Delta = 5865\pm \text{ Km.} = 52^{\circ}.8.$
	32 - 06 \pm	eS	
369)	16 - 22 - 09 \pm	iPb	Very small. $\Delta b = 354\pm \text{ Km.}$
	- 49	iSb	
370)	17 - 13 - 54	iP	Very small. $\Delta b = 4655 \text{ Km.} = 41^{\circ}.9.$
	20 - 20 \pm	eS?	
371)	22 - 33 - 24 \pm	iPb	Very small. $\Delta b = 308 \text{ Km.}$
	- 59 \pm	iSb	

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
372)	4 00 - 21 - 00	iP	Very small. S indeterminate.
373)	06 - 19 - 40	iPb	Very small. $\Delta b = 210$ Km.
	20 - 04	eSb	
374)	16 - 35 - 28	iPb	Small. Compr. to S=. $\Delta b = 183$ Km.
	49	iSb	
375)	18 - 47 - 54	iP	Very small. Compr. S indeterminate.
376)	5 14 - 07 - 58	iPg	Very small. $\Delta g = 67$ Km.
	08 - 06	iSg	
377)	14 - 11 - 46	iPb	Very small. $\Delta = 165$ Km.
	12 - 05	iSb	
378)	6 00 - 01 - 44	iP	Very small. S indeterminate.
379)	02 - 49 - 34	iPg	Small. $\Delta g = 23$ Km.
	- 37?	iSg	
380)	02 - 56 - 05	iPg	Very small. Dilat. to N? $\Delta g = 94$ Km.
	- 16	iSg	
381)	03 - 00 - 26	iPg	Very small. Compr. to S? $\Delta g = 103$ Km.
	- 38	iSg	
382)	08 - 30 - 58	iPb	Very small. $\Delta b = 165$ Km.
	31 - 17	iSb	
383)	14 - 38 - 53	iPb	Very small. Compr. $\Delta b = 156$ Km.
	39 - 11	iSb	
384)	7 05 - 52 - 27	iPb	Small. Dilat. $\Delta b = 156$ Km.
	- 45	iSb	
385)	19 - 03 - 10	iPb	Small to moderate. Compr. $\Delta b = 246$ Km.
	- 38	iSb	
386)	21 - 46 - 59	iPb	Very small. $\Delta b = 372$ Km.
	47 - 41	iSb	
387)	8 02 - 03 - 10	i	Very small.
388)	05 - 12 - 22	iPg	Very small. $\Delta g = 23$ Km.
	- 25	iSg	
389)	05 - 49 - 56	i	Very small.
390)	13 - 36 - 59	iP	Very small. $\Delta b = 954$ Km.
	38 - 46 [±]	eS	
391)	19 - 25 - 43	iPg	Very small. $\Delta g = 109$ Km.
	56	iSg	
392)	9 02 - 53 - 16	iPg	Very small. $\Delta g = 23$ Km.
	- 19	iSg	
393)	05 - 02 - 22	iPb	Very small. $\Delta b = 174$ Km.
	- 42	iSb	
394)	08 - 44 - 24	i	Very small. Teleseismic Traces.
395)	15 - 46 - 06	i	Very small.
396)	19 - 36 - 50	i	Very small.
397)	20 - 21 - 44	i	Very small.
398)	21 - 31 - 08	iPg	Very small. $\Delta g = 92\pm$ Km.
	- 19	iSg	

	<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>R e m a r k s</u>
399)	10	00 - 53 - 03	iPb	} Very small. $\Delta b = 174$ Km.
		- 23	iSb	
400)		02 - 59 - 54	iPb	} Small to moderate. Compr. to S \pm . $\Delta b = 210$ Km.
		03 - 00 - 18	iSb	
401)		04 - 40 - 49	iPg	} Very small. $\Delta g = 92\pm$ Km.
		41 - 00	iSg	
402)		19 - 46 - 00	iPb	} Very small. Compr. to S \pm . $\Delta b = 165$ Km.
		- 19	iSb	
403)	11	00 - 49 - 01	iP	} Very small. $\Delta = 2490$ Km. = $22^{\circ}.4$.
		53 - 06	iS	
404)		06 - 27 - 33	iPb	} Very small. $\Delta b = 156\pm$ Km.
		- 50 \pm	iSb	
405)		11 - 24 - 10 \pm	i	} Very small. Moderate to large. Compr. to N \pm . $\Delta b = 398$ Km.
406)		16 - 38 - 00	iPb	
		- 45	eSb	} Very small. Compr. to N? $\Delta = 2010$ Km. = $18^{\circ}.1$.
407)		19 - 28 - 20	iP	
		31 - 46	iS	} Very small. Traces of teleseism.
408)		20 - 54 - 54	i	
409)	12	03 - 47 - 52	iP	} Very small. S indeterminate.
410)		19 - 57 - 37	iP	
411)		20 - 17 - 37	iPb	} Very small. $\Delta b = 228$ Km.
		18 - 03	iSb	
412)		20 - 35 - 35	iPg	} Small. Compr. to S. $\Delta g = 50$ Km.
		- 41	iSg	
413)	13	11 - 21 - 00	iPg	} Very small. $\Delta g = 76$ Km.
		- 09	iSg	
414)	14	02 - 48 - 00 \pm	i	} 20 minutes teleseismic traces. Small. Dilatation. Difficult. Solution gives ~ 500 Km. focal depth. $\Delta = 2445$ Km. = 22° .
415)		06 - 08 - 40	iP	
		- 10 - 50	iP	
		12 - 00	iS	
		14 - 40	iS	
416)		06 - 19 - 48	i	} Very small. Very small. Very small.
417)		13 - 44 - 03	i	
418)		14 - 09 - 32	i	
419)	15	12 - 43 - 59	iPb	} Very small. $\Delta b = 168$ Km.
		44 - 19	iSb	
420)	16	00 - 38 - 53	iPb	} Small to moderate. $\Delta b = 389$ Km.
		39 - 37	iSb	
421)		03 - 45 - 04	i	} Teleseismic traces.
422)	17	14 - 55 - 52	iP	
		15 - 00 - 25	iS	} Small. $\Delta = 2855$ Km. = $25^{\circ}.7$.
423)		21 - 39 - 51	iPg	
		40 - 03	iSg	} Very small. $\Delta b = 102$ Km.

424)	18	05 - 27 - 15	iPb	}	Small to mod. $\Delta b = 457$ Km.
		28 - 06	iSb		
425)		07 - 24 - 03	iPb	}	Small. Dilat. $\Delta b = 457 \pm$ Km.
		- 54	iSb		
426)		08 - 45 - 05	iPb	}	Very small. $\Delta b = 578$ Km.
		46 - 10	iSb		
427)		12 - 01 - 02	iPb	}	Very small. $\Delta b = 291$ Km.
		01 - 35	iSb		
428)		15 - 53 - 15 [±]	iP	}	Very small. Compr. S indeterminate.
429)		21 - 36 - 47	iPb		Very small. Compr. $\Delta b = 148$ Km.
		37 - 04	iSb		
430)	19	16 - 22 - 12	iPb	}	Very small. $\Delta b = 515$ Km.
		23 - 10	iSb		
431)		23 - 50 - 22	iPb	}	Very small. $\Delta b = 174$ Km.
		- 42	iSb		
432)	20	12 - 15 - 11	iPb	}	Very small. $\Delta = 2265$ Km. = 20 [°] .4.
		18 - 58	iSb		
433)		14 - 18 - 00	iP	}	Very small. S indeterminate.
434)		14 - 50 - 26	iPb		Small. $\Delta b = 299$ Km.
		51 - 00	iSb		
435)	21	01 - 35 - 11	iP	}	Very small. $\Delta = 2420$ Km. = 21 [°] .8.
		39 - 11	eS		
436)		03 - 35 - 03	iP	}	Small to moderate. $\Delta = 2510$ Km. = 22 [°] .6.
		39 - 10	eS		
437)		04 - 50 - 29	iPb	}	Very small. $\Delta b = 327$ Km.
		51 - 06	iSb		
438)		10 - 04 - 21	iPb	}	Very small. $\Delta b = 165 \pm$ Km.
		- 40 [±]	iSb		
439)	22	13 - 57 - 12	iPb	}	Very small. Dilat. to S [±] . $\Delta b = 156$ Km.
		- 30	iSb		
440)		14 - 11 - 10	iP	}	Small. $\Delta = 2955$ Km. = 26 [°] .6.
		15 - 50	iS		
441)		20 - 45 - 59	i	}	Very small.
442)		22 - 07 - 04	iPb		Very small. $\Delta b = 129$ Km.
		- 19	iSb		
443)		22 - 09 - 47	iPb	}	Very small. Compr. $\Delta b = 129$ Km.
		10 - 02	iSb		
444)	23	00 - 40 - 00	iPb	}	Very small. $\Delta b = 165$ Km.
		- 19	iSb		
445)		06 - 02 - 47	iPb	}	Very small. $\Delta b = 318$ Km.
		03 - 23	iSb		
446)		13 - 45 - 47	iPg	}	Very small. $\Delta g = 84$ Km.
		57	iSg		
447)		16 - 31 - 02	iP	}	Very small. Compr. $\Delta = 2145$ Km. = 19 [°] .3.
		34 - 39	iS		
448)		17 - 51 - 48	iP	}	Very small. $\Delta = 6235$ Km. = 56 [°] .1.
		59 - 42 [±]	iS		
449)	24	03 - 14 - 10	iPb	}	Very small. $\Delta b = 192$ Km.
		- 32	iSb		
450)		05 - 46 - 25	iPg	}	Very small. $\Delta g = 109$ Km.
		- 38	iSg		

451)	24	17 - 54 - 11 - 27	iPb } iSb }	Very small. Compr. $\Delta b = 138$ Km.
452)	25	18 - 01 - 56 02 - 17	iPb } iSb }	Very small. Compr. to S \pm . $\Delta b = 188$ Km.
453)		18 - 28 - 47 \pm	i	Very small.
454)	26	02 - 53 - 51 54 - 29	iPb } iSb }	Very small. $\Delta b = 336$ Km.
455)		13 - 20 - 51 21 - 05	iPb } iSb }	Very small. $\Delta b = 121$ Km.
456)		16 - 31 - 51 38 - 48 42 - 25	iP } iS } iSR ₁ }	Small. Compr. $\Delta = 5220$ Km. = 47 $^{\circ}$.0.
457)		21 - 22 - 17	i	Very small. Compr. S indiscernible.
458)		21 - 29 - 37 36 - 31 \pm	iP } iS }	Very small. $\Delta = 5165$ Km. = 46 $^{\circ}$.5.
459)	27	00 - 04 - 14	iS	Very small. One record only. Photogr. being changed.
460)		12 - 28 - 01 - 22	iPb } iSb }	Very small. $\Delta b = 183$ Km.
461)		19 - 11 - 39 12 - 43	iPb } iSb }	Very small. $\Delta b = 569\pm$ Km.
462)		23 - 51 - 21 - 36	iPb } iSb }	Very small. $\Delta b = 129\pm$ Km.
463)	28	06 - 40 - 21	iP	Very small. Dilat. S indistinguishable.
464)		16 - 37 - 37 - 55	iPb } iSb }	Small. Compr. $\Delta b = 156$ Km.
465)	29	06 - 48 - 43 - 49	iPg } iSg }	Very small. $\Delta g = 50$ Km.
466)		15 - 39 - 56 46 - 00 \pm	iP } eS }	Very small. $\Delta = 4255$ Km. = 38 $^{\circ}$.3.
467)		16 - 26 - 06 - 12	iPg } iSg }	Very small. $\Delta g = 50$ Km.
468)	30	05 - 36 - 54 37 - 07	iPg } iSg }	Very small. $\Delta g = 109$ Km.
469)		12 - 35 - 57 - 38 - 24	iP } iS }	Small. $\Delta = 1365$ Km. = 12 $^{\circ}$.3.
470)		12 - 45 - 11 46 - 05	iPb } iSb }	Small. $\Delta = 479$ Km.
471)		19 - 40 - 22 - 48	iPb } iSb }	Very small. $\Delta b = 228$ Km.
472)		23 - 32 - 21 36 - 46	iP } iS }	Small. Compr. $\Delta = 2680$ Km. = 24 $^{\circ}$.1.
473)	31	09 - 42 - 15 51 - 39	iP } eS }	Very small. $\Delta = 7965$ Km. = 71 $^{\circ}$.7.
474)		18 - 17 - 00 \pm	iP	Very small. S indeterminate.
475)		14 - 55 - 00 \pm	ff.	30 ^m of Teleseismic traces.



MANILA OBSERVATORY
Mirador, Baguio City
Philippines

MONTHLY SEISMOLOGICAL BULLETIN

Lat. N. $16^{\circ} 24' 39''$ Long. E. $120^{\circ} 34' 47''$ Alt. 1507 meters

Instruments (All Sprengnethers)

Hard Limestone Bedrock

<u>Type</u>	<u>Component</u>	<u>Period</u>		<u>Magnification (Dynamic)</u>	
		<u>Seism.</u>	<u>Galv.</u>	<u>Maximum</u>	<u>Synchronous</u>
Photographic	Z	1.44 sec	1.42 sec	2685	1910
	E-W	10.85 "	12.00 "	2545	1855
	N-S	1.82 "	1.60 "	2826	4930
Photoelectric Visual recording	N-S	11.90 "	12.00 "	Variable. Tests for optimum magnification.	
	E-W	1.53 "	1.70 "		

JUNE 1955

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
476)	1	15 - 27 - 14	iP } Very small. Dilat. $\Delta = 1165$ Km. = $10^{\circ}.5$.
		29 - 23	eS }
477)	16	14 - 25	iP } Very small. Compr. to S \pm . $\Delta = 1865$ Km. = $16^{\circ}.8$.
		17 - 39	iS }
478)	21	53 - 28	iPb } Very small. P cresc. S difficult. $\Delta b = 389$ Km.
		54 - 12 \pm	eSb }
479)	2	00 - 28 - 55	iP } Very small. Dilat. $\Delta = 6355$ Km. = $57^{\circ}.2$.
		36 - 56	iS }
480)	02	12 - 11	iPb } Very small. $\Delta b = 435\pm$ Km.
		13 - 00 \pm	iSb }
481)	08	00 - 01	iPb } Very small. S difficult. $\Delta b = 257$ or 524 Km.
		00 - 43	} iSb }
		or 01 - 00	
482)	14	44 - 49	iPb } Very small. Compr. to S \pm . $\Delta b = 129$ Km.
		45 - 04	iSb }
483)	16	01 - 19	iPb } Very small. Compr. $\Delta b = 308$ Km.
		- 54	iSb }
484)	3	02 - 40 - 43	iPb } Very small. $\Delta b = 129$ Km.
		- 58	iSb }
485)	18	54 - 17	iPb } Very small. $\Delta b = 129$ Km.
		31	iSb }
486)	4	03 - 32 - \pm ff.	Teleseismic traces.
487)		11 - 28 - 21	iPb } Very small. Dilat. $\Delta b = 228$ Km.
		- 47	iSb }
488)	16	57 - 36	iP } Very small. Compr. $\Delta = 3310$ Km. = $29^{\circ}.8$.
	17	02 - 40	iS }

	<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
489)	4	17 - 28 - 46	iP	Very small. S indeterminate.
490)		21 - 48 - 26	iPb	Very small. $\Delta b = 246$ Km.
		- 54	iSb	
491)	5	02 - 03 - 16	iPb	Very small. $\Delta b = 138$ Km.
		- 32	iSb	
492)		06 - 13 - 20	iPb	Small. $\Delta b = 1026$ Km. = $9^{\circ}.2$.
		15 - 15	iSb	
493)		09 - 44 - 37	iPg	Very small. Dilat. to N \pm . $\Delta g = 84$ Km.
		- 47	iSg	
494)	6	01 - 22 - 18	iP	Very small. Compr. S indeterminate.
495)		09 - 58 - 55	iP	Very small. $\Delta = 1290$ Km. = $11^{\circ}.6$.
		10 - 02 - 20	iS	
496)		22 - 08 - 03	iPg	Very small. $\Delta g = 92$ Km.
		- 14	iSg	
497)		22 - 39 - 37	iPb	Very small. $\Delta b = 318$ Km.
		40 - 13	iSb	
498)	7	00 - 53 - 43	iP	Small to moderate. Dilat. $\Delta = 2320$ Km. =
		57 - 35	iS	
499)		03 - 08 - 20	iPg	Very small. $\Delta g = 60$ Km.
		- 29	iSg	
500)		04 - 08 - 56	iPb	Very small. $\Delta b = 246$ Km.
		09 - 24	iSb	
501)		14 - 39 - 57	iPb	Very small. $\Delta b = 246$ Km.
		40 - 25	iSb	
502)		15 - 36 - 03	iP	Very small. $\Delta = 2380$ Km. = $21^{\circ}.4$.
		38 - 59	eS	
503)		19 - 00 - 25	iPn	Very small. Dilat. to S \pm . $\Delta n = 1171$ Km. = $10^{\circ}.5$.
		02 - 27	iSn	
504)	8	02 - 33 - 06	iPb	Very small. $\Delta b = 201$ Km.
		- 29	iSb	
505)		02 - 43 - 27	iPb	Moderate. Compr. $\Delta b = 282$ Km.
		- 59	iSb	
506)		03 - 23 - 33	iPb	Small. Dilat. to S. $\Delta b = 255$ Km.
		24 - 02	iSb	
507)		03 - 56 - 57	iPb	Small. Dilat. to S. $\Delta b = 246$ Km.
		57 - 25	iSb	
508)		21 - 47 - 19 \pm	iPg	Very small. $\Delta g = 116\pm$ Km.
		- 33	iSg	
509)		22 - 15 - 15	iPb	Very small. Peculiar. $\Delta b = 534$ Km.
		- 16 - 15	iSb	
510)		22 - 36 - 13	iPb	Very small. $\Delta b = 417$ Km.
		- 37 - 00	iSb	
511)	9	02 - 36 - 15	iPb	Very small. Dilat. to S. $\Delta b = 250$ Km.
		- 44	iSb	
512)		03 - 11 - 37	i	Very small.
513)		14 - 12 - 12	iPb	Very small. $\Delta b = 156$ Km.
		- 30	iSb	

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
10	No quakes.		
514)	11	10 - 39 - 38	iPb } Very small. $\Delta b = 515$ Km.
		40 - 36	iSb }
515)		21 - 06 - 22	iPb } Very small. Compr. $\Delta b = 282$ Km.
		- 54	iSb }
516)		21 - 52 - 22	iPb } Very small. $\Delta b = 192$ Km.
		- 44	iSb }
517)		22 - 38 - 44	iP } Very small. S indeterminate.
518)		23 - 08 - 50	iPb } Very small. $\Delta b = 129$ Km.
		09 - 05	iSb }
519)	12	01 - 19 - 52	iPb } Very small. $\Delta b = 138$ Km.
		20 - 08	iSb }
520)		19 - 01 - 40±	iPb } Very small. $\Delta b = 174$ Km.
		02 - 00±	iSb }
521)		20 - 38 - 44	iP } Very small. $\Delta = 4655$ Km. = $41^{\circ}.9$.
		45 - 10	iS }
522)	13	00 - 00 - 14	iPg } Very small. $\Delta g = 23$ Km.
		- 17	iSg }
523)		00 - 36 - 49	iPb } Very small. $\Delta b = 282$ Km.
		37 - 21	iSb }
524)		03 - 33 - 51	iPg } Very small. $\Delta g = 86$ Km.
		34 - 01	iSg }
525)		04 - 08 - 44	iPg } Very small. $\Delta g = 92$ Km.
		- 55	iSg }
526)		05 - 09 - 17	iP } Very small. $\Delta = 1710$ Km. = $15^{\circ}.4$.
		12 - 17	eS }
527)		14 - 01 - 08	iP } Very small. S indeterminate.
528)		19 - 19 - 22±	iPn } Small. Compr. to N. $\Delta n = 975$ Km.
		21 - 04	eSn }
529)		19 - 53 - 04	iP } Very small. Compr. to S. $\Delta = 1765$ Km. =
		56 - 09	iS } $15^{\circ}.9$.
530)	14	02 - 34 - 23	iPb } Small. Compr. to N. $\Delta b = 138$ Km.
		- 39±	iSb }
531)		03 - 02 - 55	iP } Very small. S indeterminate.
532)		04 - 06 - 28	iPb } Very small. $\Delta g = 102\pm$ Km.
		- 40	iSb }
533)		07 - 59 - 40	iPg } Very small. Dilat. to S. $\Delta g = 104$ Km.
		- 53	iSg }
534)		16 - 00 - 36	iP } Moderate. P cresc. compr. to S±. S inde-
			terminate.
535)		17 - 27 - 43	iP } Very small. S difficult. $\Delta = 3755\pm$ Km. =
		33 - 15±	eS } $33^{\circ}.8$.
536)	15	02 - 47 - 26	iPb } Very small. $\Delta b = 354$ Km.
		48 - 06	iSb }
537)		09 - 23 - 04	iPb } Very small. $\Delta b = 183$ Km.
		- 25	iSb }
538)		12 - 34 - 12	iPb } Very small. $\Delta b = 318$ Km.
		- 48	iSb }

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
539)	15	15 - 43 - 40	iP } Very small. $\Delta = 4065$ Km. = $36^{\circ}.6$.
		49 - 32	iS }
540)		18 - 13 - 32	iPg } Very small. Compr. to S \pm . $\Delta_g = 92$ Km.
		- 43	iSg }
541)	16	03 - 56 - 09	iPg } Very small. $\Delta_g = 92$ Km.
		20	iSg }
542)		04 - 19 - 03	iPb } Very small. $\Delta_b = 148$ Km.
		- 20	iSb }
543)		04 - 58 - 28	iP } Very small. $\Delta = 2655$ Km. = $23^{\circ}.9$.
		05 - 02 - 47	iS }
544)		06 - 09 - 50	iP } Very small. Compr. to S \pm . $\Delta = 2955$ Km. =
		14 - 30	eS } $26^{\circ}.6$.
545)		06 - 28 - 00	iP } Very small. S difficult. Nearby quake.
546)		06 - 48 - 34	iP } Very small. Compr. to S \pm . $\Delta = 1565$ Km. =
		- 51 - 20	iS } $14^{\circ}.1$.
547)		08 - 17 - 57	iPb } Small. Small compr. Large dilat. $\Delta_b =$
		18 - 26	iSb } 255 Km.
548)		08 - 44 - 46	iP } Small. Teleseismic. S too difficult. Small compr., large dilat.
549)	17	02 - 10 - 08	iPb } Very small. $\Delta_b = 417^{\pm}$ Km.
		- 55 \pm	eSb }
550)		08 - 08 - 04	iPb } Very small. $\Delta_b = 577$ Km. or 910 Km.
		09 - 20	eSb }
		or 09 - 46	eSb }
551)		12 - 20 - 17	iPb } Very small. $\Delta_b = 291$ Km.
		- 50	iSb }
552)		17 - 01 - 20	iPb } Very small. Compr. to S \pm . $\Delta_b = 479$ Km.
		02 - 16 \pm	iSb }
553)	18	02 - 07 - 35	iPg } Very small. $\Delta_g = 76$ Km.
		- 44	iSg }
554)		03 - 02 - 00	iPb } Very small. $\Delta_b = 174$ Km.
		- 20	iSb }
555)		06 - 35 - 08	iPg } Very small. $\Delta_g = 109$ Km.
		21	iSg }
556)		16 - 09 - 10	iPn } Very small. $\Delta_n = 857$ Km.
		10 - 40	eSn }
557)	19	09 - 26 - 43	iPb } Very small. $\Delta_b = 174$ Km.
		27 - 03	iSb }
558)	20	12 - 17 - 25	iP } Small. Compr. $\Delta = 6355$ Km. = $57^{\circ}.2$.
		25 - 26	eS }
559)	21	02 - 16 - 11	iPb } Very small. $\Delta_b = 435^{\pm}$ Km.
		17 - 00 \pm	iSb }
560)		11 - 59 - 45	iPb } Very small. $\Delta_b = 228^{\pm}$ Km.
		12 - 00 - 11 \pm	iSb }
561)		12 - 44 - 58	iPb } Small. Compr. to N \pm . $\Delta_b = 2135$ Km. =
		48 - 34	iSb } $19^{\circ}.2$.
562)		20 - 38 - 51	iPg } Very small. $\Delta_g = 58$ Km.
		58	iSg }

	<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
563)	21	23 - 00 - 10	iPb	} Very small. $\Delta b = 129$ Km.
		- 25	iSb	
564)		23 - 04 - 53	iPb	} Very small. $\Delta b = 174$ Km.
		05 - 13	iSb	
565)		23 - 52 - 25	iPb	} Very small. $\Delta b = 228$ Km.
		- 51	iSb	
566)	22	01 - 29 - 45	iPb	} Very small. $\Delta b = 219$ Km.
		30 - 10	iSb	
567)		01 - 42 - 06	iPb	} Small. Compr. to S \pm . $\Delta b = 246$ Km.
		- 34	iSb	
568)		08 - 32 - 48	iPb	} Small. $\Delta b = 273$ Km.
		33 - 19	iSb	
569)		10 - 15 - 28	iPb	} Very small. $\Delta = 488$ Km.
		16 - 23	iSb	
570)	23	08 - 40 - 18	iP	} Very small. $\Delta = 1310$ Km. = $11^{\circ}.8$.
		42 - 40	eS	
571)		17 - 31 - 20	iPb	} Very small. $\Delta g = 16\pm$ Km. Blast?
		- 22	iSb	
572)		22 - 20 - 34	iPb	} Very small. $\Delta b = 138$ Km.
		- 50	iSb	
573)	24	06 - 16 - 32	i	} Very small.
574)		12 - 55 - 14	iPg	
		- 17	iSg	
575)		22 - 42 - 15	iPg	} Very small. $\Delta g = 14$ Km. Blast?
		- 17	iSg	
576)		23 - 36 - 27	iPg	} Very small. $\Delta g = 14\pm$ Km. Blast?
		- 29	iSg	
577)	25	02 - 02 - 22	iPg	} Very small. $\Delta g = 14$ Km. Blast?
		24	iSg	
578)		04 - 59 - 08	iPg	} Very small. $\Delta g = 14$ Km. Blast?
		- 10	iSg	
579)		17 - 43 - 22	iP	} Very small. $\Delta = 1265$ Km. = $11^{\circ}.4$.
		45 - 40	iS	
580)		21 - 13 - 45	iPg	} Very small. $\Delta g = 14$ Km. Blast?
		47	iSg	
581)	26	11 - 58 - 24	iPg	} Very small. $\Delta g = 14$ Km. Blast?
		- 26	iSg	
582)		12 - 26 - 30	iPg	} Very small. $\Delta g = 102$ Km.
		- 42	iSg	
583)	27	06 - 33 - 23	iPb	} Small. Compr. to N \pm . $\Delta b = 237$ Km.
		50	iSb	
584)		10 - 21 - 58	iP	} Very small. Compr. to NW. $\Delta = 4510$ Km. = $40^{\circ}.6$.
		28 - 16	iS	
585)		12 - 25 - 33	iPb	} Very small. Compr. $\Delta b = 156$ Km.
		- 51	iSb	
586)		16 - 15 - 45	iP	} Small. $\Delta = 2020$ Km. = $18^{\circ}.2$.
		19 - 12	iS	

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
587)	27	18 - 42 - 31	} Very small. $\Delta b = 336$ Km.
		43 - 09 \pm	
588)		23 - 09 - 21	} Very small. Compr. $\Delta g = 50$ Km.
		- 27	
589)	28	02 - 05 - 37	} Very small. Compr. $\Delta g = 33$ Km.
		- 41	
590)		02 - 25 - 23	} Very small. $\Delta g = 23$ Km.
		- 26	
591)		05 - 29 - 47	} Small. $\Delta = 1135$ Km. = $10^{\circ}.2$.
		31 - 53?	
592)		13 - 06 - 31	} Very small. $\Delta b = 299$ Km.
		07 - 05	
593)		14 - 19 - 16	} Very small. $\Delta g = 14$ Km. Blast?
		- 18	
594)		14 - 23 - 46	} Very small. $\Delta g = 14$ Km. Blast?
		- 48	
595)	29	03 - 26 - 15	} Small. $\Delta = 1110$ Km. = $10^{\circ}.0$.
		28 - 19 \pm	
596)		03 - 36 - 37	} Small. S indeterminate.
597)		04 - 12 - 12	
598)		04 - 54 - 43	} Very small. $\Delta = 2620$ Km. = $23^{\circ}.6$.
		58 - 59	
599)		06 - 39 - 40	} Very small. $\Delta = 1190$ Km. = $10^{\circ}.7$. Felt Surigao II.
		41 - 51	
600)		08 - 39 - 25	} Very small. $\Delta g = 23\pm$ Km.
		- 28 \pm	
601)		14 - 23 - 59	} Very small. $\Delta = 1162$ Km. = $10^{\circ}.4$.
		26 - 00 \pm	
602)		15 - 42 - 29	} Very small. $\Delta = 1290$ Km. = $11^{\circ}.6$.
		44 - 49 \pm	
603)		18 - 55 - 33	} Very small. $\Delta g = 14$ Km.
		- 35	
604)	30	02 - 38 - 58	} Very small. $\Delta = 1980$ Km. = $17^{\circ}.8$.
		42 - 22	
605)		05 - 09 - 05	} Very small. $\Delta g = 23$ Km.
		- 08	
606)		08 - 21 - 39	} Very small. $\Delta g = 117$ Km.
		- 53	
607)		11 - 49 - 21	} Very small. $\Delta g = 102$ Km.
		- 33	
608)		13 - 12 - 23	} Very small. Dilat. $\Delta g = 58$ Km.
		- 30	
609)		22 - 04 - 00	} Small. Dilat. $\Delta n = 946$ Km. = $8^{\circ}.5$.
		05 - 39	
610)		22 - 24 - 43	} Very small. $\Delta g = 14$ Km.
		45	

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MANILA OBSERVATORY
Mirador, Baguio City
Philippines

FEB 10 1956

MONTHLY SEISMOLOGICAL BULLETIN

Lat. N. 16° 24' 39"

Long. E. 120° 34' 47"

Alt. 1507 meters

Instruments (All Sprengnethers)

Hard Limestone Bedrock

<u>Type</u>	<u>Component</u>	<u>Period</u>		<u>Magnification (Dynamic)</u>	
		<u>Seism.</u>	<u>Galv.</u>	<u>Maximum</u>	<u>Synchronous</u>
Photographic	Z	1.44 sec	1.42 sec	2685	1910
	E-W	10.85 "	12.00 "	2545	1855
	N-S	1.82 "	1.60 "	2826	4930
Photoelectric Visual recording	N-S	11.90 "	12.00 "	Variable. Tests for optimum magnification.	
	E-W	1.53 "	1.70 "		

JULY 1955

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
611)	1 06 - 36 - 35	iPg } iSg }	Very small. Compr. to S. $\Delta_g = 92$ Km.
	- 46	iP	
612)	11 - 11 - 15	iP	Very small. S difficult. Prob. S - P = $1\frac{1}{2} - 2\frac{1}{2}$ min.
613)	11 - 49 - 31±	iP } iS }	Very small. $\Delta = 1310$ Km. = 11°.8.
	51 - 53±		
614)	17 - 16 - 35	iPg } iSg }	Very small. $\Delta_g = 23$ Km. or 84 Km.
	- 38		
	or 45±		
615)	18 - 03 - 27	iPb } iSb }	Very small. $\Delta_b = 228$ Km.
	- 53		
616)	2 03 - 36 - 57	iP	Very small. S indeterminate.
617)	16 - 03 - 22	iPb } iSb }	Small. P cresc. S difficult. $\Delta_b = 291\pm$ Km. Felt Calayan III.
	03 - 55±		
618)	3 00 - 08 - 51	iS	Very small. P off record.
619)	02 - 20 - 05	iPg } iSg }	Very small. $\Delta_g = 14$ Km.
	- 07		
620)	07 - 50 - 18	iPb } iSb }	Small to moderate. Compr. $\Delta_b = 273$ Km. Felt Manila II.
	- 49		
621)	14 - 10 - 29	iPb } iSb }	Very small. Dilat. $\Delta_b = 183\pm$ Km.
	- 50±		
622)	14 - 36 - 19	iP } iS }	Small. $\Delta = 6635$ Km. = 59°.7.
	44 - 36		
623)	17 - 10 - 29	iPb } iSb }	Very small. Dilat to S±. $\Delta_g = 41$ Km.
	- 34		

	<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
624)	4	14 - 29 - 20	iP	} Very small. $\Delta = 6265$ Km. = $56^{\circ}.4$.
		37 - 25	iS	
625)		17 - 18 - 38	iPg	} Very small. Dilat. $\Delta_g = 102$ Km.
		- 30	iSg	
626)		20 - 01 - 08	iPg	} Very small. $\Delta_g = 23$ Km.
		- 11	iSg	
627)		21 - 11 - 22	i	Very small.
628)		22 - 10 - 20	iPb	} Very small. Compr. $\Delta_b = 129$ Km.
		- 35	iSb	
629)		22 - 57 - 52	iPn	} Very small. $\Delta_n = 1191 \pm$ Km. Felt Surigao II.
		59 - 56 \pm	eSn	
630)	5	00 - 21 - 20	iP	} Very small. Compr. $\Delta = 1380 \pm$ Km. = $12^{\circ}.4$.
		23 - 48	eS \pm	
631)		01 - 34 - 20	iPb	} Very small. $\Delta_b = 532$ Km.
		35 - 20	iSb	
632)		08 - 02 - 32	iPb	} Very small. $\Delta_b = 237$ Km.
		- 59	iSb	
633)		08 - 33 - 44	iPb	} Very small. $\Delta_b = 363 \pm$ Km.
		34 - 25 \pm	iSb	
634)	6	02 - 02 - 39	iP	} Very small. Dilat. Possibly deep focus. $\Delta = 4900$ Km. = $44^{\circ}.1$.
		09 - 18	iS	
635)		10 - 48 - 49	iPb	} Very small. Compr. $\Delta_b = 291$ Km.
		49 - 22	iSb	
636)		15 - 10 - 48	i	Very small.
637)		20 - 43 - 22	iPg	} Very small. $\Delta_g = 33$ Km.
		- 26	iSg	
638)		22 - 56 - 04	iPg	} Very small. $\Delta_g = 14$ Km.
		- 06	iSg	
639)		23 - 55 - 14	iPb	} Very small. $\Delta_b = 354 \pm$ Km.
		- 54 \pm	iSb	
	7	No quakes.		
640)	8	02 - 08 - 52	iPb	} Very small. $\Delta_b = 156$ Km.
		09 - 10	iSb	
641)		02 - 21 - 02	iPb	} Very small. $\Delta_b = 354$ Km.
		- 42	iSb	
642)		14 - 18 - 34	i	Very small.
643)		17 - 23 - 10	iPb	} Very small. $\Delta_b = 129$ Km.
		- 25	iSb	
644)		18 - 30 - 29	iPg	} Very small. Small compr. then large dilat. to N \pm . $\Delta_g = 58$ Km.
		- 36	iSg	
645)		18 - 49 - 30	iPb	Very small. Dilat. S indeterminate.
646)		19 - 07 - 45	iP	} Small. compr. to SW. Prob. deep focus; difficult. $\Delta = 1745 \pm$ Km. = $15^{\circ}.7$.
		10 - 48	iS	
	9	No quakes.		

	<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
647)	10	05 - 04 - 32	i	Very small.
648)		14 - 27 - 21	i	Small with teleseismic traces.
649)		22 - 26 - 08	iPb } iSb }	Very small. $\Delta b = 174$ Km.
		- 28		
650)	11	02 - 44 - 32	iPb } iSb }	Very small. $\Delta b = 569 \pm$ Km.
		45 - 36 \pm		
651)		05 - 13 - 46	iPg } iSg }	Very small. $\Delta g = 68$ Km.
		- 54		
652)		05 - 39 - 10	i	Very small.
653)		19 - 03 - 59	iPg } iSg }	Very small. $\Delta g = 92$ Km.
		04 - 10 \pm		
654)	12	09 - 47 - 23	iPb } iSb }	Very small. $\Delta b = 183$ Km.
		- 44		
655)		15 - 03 - 45	i	Very small.
656)		18 - 18 - 08	iPg } iSg }	Very small. $\Delta g = 68 \pm$ Km.
		- 16 \pm		
657)	13	15 - 34 - 54	iPb } iSb }	Small. Dilat. to N \pm . $\Delta b = 121 \pm$ Km.
		35 - 08		
658)		18 - 48 - 16	iP } iS }	Small. Compr. to S \pm . $\Delta = 4310$ Km. = 38 $^{\circ}$.8.
		- 54 ^{m23s}		
659)		19 - 48 - 44	iPb } iSb }	Very small. $\Delta b = 497$ Km.
		49 - 40		
660)		20 - 30 - 41	iPb } iSb }	Very small. $\Delta b = 129$ Km.
		- 56		
661)	14	01 - 20 - 44	iPb } iSb }	Very small. $\Delta b = 479$ Km.
		21 - 38		
662)		02 - 37 - 58	iPb } iSb }	Small. $\Delta b = 210$ Km.
		38 - 36		
663)		04 - 01 - 45	iP } iS }	Very small. $\Delta = 4290$ Km. = 38 $^{\circ}$.6.
		07 - 51		
664)		05 - 07 - 27	iPb } iSb }	Very small. Compr. to S \pm . $\Delta b = 148$ Km.
		- 44		
665)		07 - 47 - 12	iPb } iSb }	Very small. $\Delta b = 138 \pm$ Km.
		- 28?		
666)		09 - 57 - 28	iP } iS }	Very small. $\Delta = 2920$ Km. = 26 $^{\circ}$.3.
		10 - 02 - 06		
667)		11 - 37 - 10	iPb } iSb }	Very small. $\Delta b = 155$ Km.
		- 28		
668)		11 - 45 - 18	iP } iS }	Very small. Compr. to N \pm . $\Delta = 1455$ Km. = 13 $^{\circ}$.1.
		- 47 - 54		
669)		17 - 48 - 33	iPg } iSg }	Very small. $\Delta g = 102$ Km.
		- 45		
670)		22 - 34 - 47	i	Very small.

15 No quakes.


	<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
671)	16	07 - 19 - 39	iP	Very small. Compr. to NW. $\Delta = 8980$ Km. = 80°.8.
		- 29 - 49	eS	
672)		21 - 14 - 53	iPg	Very small. $\Delta g = 84$ Km.
		15 - 03	iSg	
673)	17	05 - 33 - 10	i	Very small.
674)		09 - 37 - 59	iPb	Very small. Compr. $\Delta b = 129$ Km.
		38 - 14	iSb	
675)		10 - 37 - 50	iPb	Very small. $\Delta b = 121$ Km.
		38 - 04	iSb	
676)		11 - 57 - 23	iPb	Very small. $\Delta b = 121$ Km.
		37	iSb	
677)		13 - 57 - 25	iPb	Very small. $\Delta b = 121$ Km.
		39	iSb	
678)		14 - 35 - 32	iPb	Very small. $\Delta b = 129$ Km.
		- 47	iSb	
679)		22 - 39 - 05	iPb	Small. Compr. to S \pm . $\Delta b = 372$ Km.
		- 47	iSb	
680)	18	01 - 04 - 41 \pm	iPg	Very small. $\Delta g = 84$ Km.
		- 51 \pm	iSg	
681)		05 - 51 - 56	i	Very small. Compr.
682)		21 - 39 - 19	iP	Small. Compr. to SW. $\Delta = 6110$ Km. = 55°.
		40 - 06	iP	
		46 - 50	iS	
		48 - 03	iS	
683)		16 - 22 - 39	iPb	Very small. $\Delta b = 165$ Km.
		- 58	iSb	
684)		21 - 37 - 10	iPb	Very small. $\Delta b = 183$ Km.
		- 31	iSb	
685)	19	01 - 04 - 06	iPg	Very small. Compr. $\Delta g = 108$ Km.
		- 18	iSg	
686)		04 - 05 - 56	iPb	Very small. Dilat. to S \pm . $\Delta b = 121$ Km.
		06 - 11	iSb	
687)		13 - 49 - 56	iPg	Very small. $\Delta g = 108$ Km.
		50 - 08	iSg	
688)		15 - 46 - 38	iPb	Very small. $\Delta b = 228$ Km.
		47 - 04	iSb	
689)		15 - 56 - 03	iPg	Very small. Dilat. to SE. $\Delta g = 58$ Km.
		- 10	iSg	
690)		16 - 07 - 52	iPb	Very small. Compr. to SE. $\Delta b = 255$ Km.
		08 - 21	iSb	
	20	No quakes.		
691)	21	12 - 05 - 39	iP	Very small. Compr. to N \pm . S indeterminate. Very small. $\Delta b = 237$ Km.
692)		22 - 31 - 42	iPb	
		32 - 09	iSb	
693)		23 - 00 - 17	iPb	Very small. $\Delta b = 201$ Km.
		- 40	iSb	

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>	
694)	22	05 - 55 - 17 - 24	iPg } iSg }	Small. Dilat. $\Delta g = 68$ Km.
695)		12 - 06 - 57	iP	Small. S very difficult. Puzzling.
696)		18 - 38 - 20 39 - 06	iPb } iSb }	Small. $\Delta b = 407$ Km.
697)	23	02 - 07 - 28 08 - 00	iPb } iSb }	Very small. $\Delta b = 282$ Km.
698)		04 - 53 - 30 - 54 - 00	iPb } iSb }	Very small. $\Delta b = 264$ Km.
699)		06 - 21 - 52 24 - 28	iP } eS }	Very small. $\Delta = 1455$ Km. = $13^{\circ}.1$.
700)		07 - 05 - 14 - 34	iPb } iSb }	Very small. $\Delta b = 174$ Km.
701)		10 - 06 - 50 07 - 17	iPb } iSb }	Very small. $\Delta b = 237$ Km.
702)		11 - 24 - 57 27 - 40	iP } eS }	Very small. $\Delta b = 1535$ Km. = $13^{\circ}.8$.
703)		12 - 04 - 30	iP	Very small. S indeterminate.
704)		12 - 10 - 44	iP	Very small. S indeterminate.
705)		12 - 53 - 58 58 - 22	iP } iS }	Small. $\Delta = 2735$ Km. = $24^{\circ}.6$.
706)		13 - 58 - 50 14 - 01 - 38	iP } eS }	Very small. Compr. $\Delta = 1590$ Km. = $14^{\circ}.3$.
707)		15 - 50 - 57 51 - 15	iPb } iSb }	Small. Compr. to S \pm . $\Delta b = 151$ Km.
708)		17 - 17 - 58 - 28	iPb } iSb }	Very small. $\Delta b = 264$ Km.
709)		18 - 22 - 26 24 - 52	iP } iS }	Very small. $\Delta = 1355$ Km. = $12^{\circ}.2$.
710)	24	01 - 03 - 57 04 - 18	iPb } iSb }	Very small. $\Delta b = 183$ Km.
711)		11 - 07 - 40 13 - 08	iP } iS }	Small. May be dee focus. $\Delta b = 3690$ Km.
712)		12 - 31 - 12 32 - 12 \pm	iPb } iSb }	Very small. $\Delta b = 533$ Km.
713)		16 - 21 - 54 23 - 19	iPb } iSb }	Small. Dilat. to N \pm . $\Delta b = 758$ Km.
714)		20 - 49 - 53 50 - 48	iPb } iSb }	Small. $\Delta b = 488$ Km.
715)		23 - 56 - 46 57 - 33	iPb } iSb }	Very small. $\Delta b = 417^{\pm}$ Km.
716)	25	11 - 42 - 35 \pm	i	Very small.
717)		20 - 01 - 47	iP	Very small. S indeterminate.
718)	26	04 - 16 - 00	i	Very small.
719)		04 - 25 - 35	i	Very small.

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
720)	27	01 - 25 - 39	iP } Small. Compr. to N [±] . $\Delta = 2390$ Km. =
		29 - 36	iS } $21^{\circ}.5$.
721)		04 - 05 - 48	iPg } Very small. $\Delta_g = 109$ Km.
		06 - 01	iSg }
722)		05 - 07 - 03	iPb } Small. $\Delta_b = 129$ Km.
		- 18 [±]	iSb }
723)		07 - 17 - 40	iP } Very small. $\Delta = 1445$ Km. = $13^{\circ}.0$.
		20 - 15 [±]	iS }
724)		18 - 30 - 55	iP } Very small. $\Delta = 9500$ Km. = $85^{\circ}.4$.
		41 - 28	iS }
725)	28	02 - 01 - 58	iP } Small. $\Delta = 1520$ Km. = $13^{\circ}.7$.
		04 - 40 [±]	iS }
726)		06 - 02 - 08	i } Very small.
727)		06 - 37 - 13	iPb } Small. Compr. to S [±] . $\Delta_b = 255$ Km.
		- 42	iSb }
728)		19 - 37 - 44	iPg } Very small. $\Delta_g = 92$ Km.
		- 55	iSg }
729)	29	01 - 39 - 41	iP } Very small. $\Delta = 1145$ Km. = $10^{\circ}.3$.
		41 - 48	iS }
730)		03 - 27 - 29	iPb } Small. Compr. to S. $\Delta_b = 129$ Km.
		- 44	iSb }
731)		08 - 01 - 41	iPb } Very small. $\Delta = 793$ Km. or $\Delta_n = 1181$
		03 - 44	iSb } Km.
		or 03 - 10	iSb }
732)		21 - 07 - 00	iP } Very small. Compr. S indeterminate.
733)		22 - 01 - 49	i } Very small.
734)	30	11 - 09 - 12	iPb } Very small. $\Delta_b = 354$ Km.
		- 52	iSb }
735)		16 - 52 - 13	iPg } Very small. Dilat. to N [±] . $\Delta_g = 92$ Km.
		- 23	iSg }
736)	31	02 - 37 - 50	i } Very small.
737)		03 - 14 - 58	iPg } Small. Compr. to N [±] . $\Delta_g = 23-28$ Km.
		15 - 02	iSg }
738)		13 - 40 - 47	iPb } Small. Compr. $\Delta_b = 127$ Km.
		41 - 02	iSb }

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I-7-
FEB 10 1956

 International
Seismological
Centre

MANILA OBSERVATORY
Mirador, Baguio City
Philippines

MONTHLY SEISMOLOGICAL BULLETIN

Lat. N. 16° 24' 39"

Long. E. 120° 34' 47"

Alt. 1507 meters

Instruments (All Sprengnethers)

Hard Limestone Bedrock

<u>Type</u>	<u>Component</u>	<u>Period</u>		<u>Magnification (Dynamic)</u>	
		<u>Seism.</u>	<u>Galv.</u>	<u>Maximum</u>	<u>Synchronous</u>
Photographic	Z	1.44 sec	1.42 sec	2685	1910
	E-W	10.85 "	12.00 "	2545	1855
	N-S	1.82 "	1.60 "	2826	4930
Photoelectric Visual recording	N-S	11.90 "	12.00 "	Variable. Tests for optimum magnification.	
	E-W	1.53 "	1.70 "		

AUGUST 1955

	<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
739)	1	02 - 36 - 12 [±]	iPg	} Very small. $\Delta g = 33^{\pm}$ Km.
		16	iSg	
740)		06 - 15 - 00	iPb	} Small. $\Delta b = 138$ Km.
		- 16	iSb	
741)		16 - 57 - 31	iPb	} Very small. Dilat. to S [±] . $\Delta b = 165$ Km.
		- 50	iSb	
742)		21 - 47 - 43	iP	Very small. S indeterminate.
743)		23 - 40 - 16	iPg	} Very small. $\Delta g = 50$ Km.
		- 22	iSg	
744)	2	00 - 08 - 07 [±]	iPg	} Very small. $\Delta g = 14$ Km.
		- 09 [±]	iSg	
745)		06 - 56 - 09 [±]	iPg	} Very small. Compr. to N [±] . $\Delta g = 41$ Km.
		- 14	iSg	
746)		07 - 36 - 39	iPg	} Very small. Dilat. to N [±] . $\Delta g = 76^{\pm}$ Km.
		- 48 [±]	iSg	
747)		20 - 41 - 28	iPg	} Very small. $\Delta g = 110$ Km.
		- 42	iSg	
748)	3	05 - 14 - 05	iPg	} Small. Compr. $\Delta g = 109$ Km.
		- 18	iSg	
749)		05 - 24 - 08	iPg	} Very small. Compr. to S [±] . $\Delta g = 102$ Km.
		20	iSg	
750)		12 - 05 - 44	i	Very small.
751)		16 - 52 - 55	iPb	} Very small. $\Delta b = 121$ Km.
		53 - 09	iSb	
752)		17 - 22 - 00 ff.		Small. Traces of teleseism.

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
752b)	3 19 - 22 - 18	iPb	Small. Dilat. to S [±] . $\Delta b = 138$ Km.
	- 34	iSb	
753)	20 - 00 - 56	iPg	Very small. $\Delta g = 102$ Km.
	- 01 - 08	iSg	
754)	20 - 29 - 56	i	Teleseismic traces. Very small.
755)	22 - 47 - 02	i	Teleseismic traces.
756)	05 - 55 - 11	iPb	Very small. $\Delta b = 129$ Km.
	- 26 [±]	iSb	
757)	06 - 52 - ff.	i	Very small. Teleseismic traces.
758)	11 - 00 - 25	i	Very small. Traces of teleseism.
759)	12 - 25 - 00 ff.	i	Very small. Teleseismic traces. 15 min.
760)	14 - 20 - 51 [±]	iPn	Very small. $\Delta n = 1005^{\pm}$ Km.
	22 - 36	iSn	
761)	15 - 19 - 00 ff.	i	Very small. Teleseismic traces.
762)	18 - 13 - 29 [±]	iPb	Very small. $\Delta b = 372$ Km.
	14 - 11 [±]	iSb	
763)	5 10 - 27 - 37	iPb	Very small. $\Delta b = 148$ Km.
	- 54	iSb	
764)	6 03 - 06 - 54	iPb	Very small. Dilat. $\Delta b = 156$ Km.
	07 - 12	iSb	
765)	08 - 42 - 13	iP	Small. Compr. Deep focus. $h \sim 350$ Km. Very good example.
	- 43 - 38	iP	
	50 - 58	iS	
	54 - 02	iS	
766)	18 - 00 - 33	iPb	Very small. $\Delta b = 156$ Km.
	- 51	iSb	
767)	18 - 19 - 22	iPg	Very small. $\Delta g = 102$ Km.
	- 34	iSg	
768)	7 12 - 45 - 00	i	Teleseismic traces, small to 13-15.
769)	8 03 - 33 - 09	iPb	Very small. $\Delta b = 362$ Km.
	- 51	iSb	
770)	21 - 59 - 39 [±]	iP	Very small. $\Delta = 1710^{\pm}$ Km. = 15 ⁰ .4.
	02 - 39 [±]	eS	
771)	9 12 - 26 - 04	iPb	Very small. $\Delta b = 155$ Km.
	- 22	iSb	
772)	18 - 23 - 45	iPg	Very small. $\Delta g = 33^{\pm}$ Km.
	- 49 [±]	iSg	
773)	19 - 56 - 19	iPb	Very small. $\Delta b = 417^{\pm}$ Km.
	57 - 06 [±]	iSb	
774)	10 02 - 56 - 59	iPb	Very small. $\Delta b = 299$ Km.
	- 33 [±]	iSb	
775)	05 - 08 - 47	iPb	Very small. $\Delta b = 174^{\pm}$ Km.
	09 - 07 [±]	iSb	

	<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
776)	10	13 - 53 - 53±	iPg	Very small. $\Delta g = 117\pm$ Km.
		54 - 07±	iSg	
777)		16 - 09 - 35	iPb	Very small. $\Delta b = 273$ Km.
		10 - 06	iSb	
778)	11	08 - 58 - 22	iPb	Very small. Dilat. $\Delta b = 174$ Km.
		- 42	iSb	
779)		19 - 31 - 48±	ePb	Very small. $\Delta = 1110\pm$ Km.
		33 - 52±	eSb	
780)	12	04 - 34 - 23±	iPb	Very small. $\Delta b = 282\pm$ Km.
		- 55	iSb	
781)		04 - 56 - 37	iPb	Very small. $\Delta b = 766\pm$ Km.
		58 - 03±	iSb	
782)		08 - 01 - 18±	eP	Very small. $\Delta = 2235\pm$ Km. = $20^{\circ}.1$.
		05 - 02±	eS	
783)		20 - 33 - 21	iP	Very small. Dilat. to S^{\pm} . $\Delta = 2520\pm$ Km. = $22^{\circ}.7$.
		37 - 29±	eS	
784)	13	06 - 09 - 17	iPb	Very small. $\Delta b = 183\pm$ Km.
		- 40±	iSb	
785)		07 - 32 - 45	iPg	Very small. $\Delta g = 109$ Km.
		- 58	iSg	
786)		13 - 32 - 04	i	Very small.
787)		15 - 59 - 29	i	Very small.
788)		17 - 13 - 51	iPn	Very small. $\Delta n = 985\pm$ Km.
		15 - 34±	eSn	
789)		17 - 49 - 12	iPb	Very small. Dilat. to S^{\pm} . $\Delta b = 299$ Km.
		- 46	iSb	
790)		17 - 56 - 21	iPb	Very small. $\Delta b = 264$ Km.
		- 51	iSb	
791)		18 - 32 - 14±	i	Very small.
792)	14	02 - 58 - 54	i	Very small.
793)		10 - 45 - 14	iPb	Small. Compr. to S^{\pm} . $\Delta b = 215$ Km.
		- 38	iSb	
794)		11 - 17 - 32	iPb	Very small. Dilat. to S^{\pm} . $\Delta b = 784\pm$ Km.
		19 - 00±	iSb	
795)		13 - 25 - 00±	iPb	Very small. $\Delta b = 192\pm$ Km.
		- 22±	iSb	
796)		13 - 46 - 39	iPb	Small. $\Delta b = 201$ Km.
		47 - 02	iSb	
797)		16 - 55 - 02	iP	Very small. S indeterminate. Teleseis- mic.
798)		20 - 59 - 22	i	Very small.
799)		22 - 34 - 49±	iPg	Very small. $\Delta g = 84\pm$ Km.
		- 59±	iSg	
800)	15	01 - 55 - 04±	ePb	Very small. $\Delta b = 264\pm$ Km.
		- 34±	iSb	
801)		03 - 08 - 12	iP	Very small. $\Delta = 1435$ Km. = $12^{\circ}.9$.
		- 10 - 45	iS	

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
802)	15 03 - 26 - 38	iPb	} Very small. $\Delta b = 739$ Km.
	- 28 - 01	iSb	
803)	05 - 23 - 58	iPb	} Very small. $\Delta b = 138$ Km.
	24 - 14	iSb	
804)	15 - 38 - 10	iPb	} Very small. Dilat. $\Delta b = 210$ Km.
	- 34	iSb	
805)	16 - 49 - 24	iP	} Very small. $\Delta = 2600 \pm$ Km. = $23^{\circ}.4$.
	53 - 38 \pm	eS	
806)	17 - 06 - 24	i	Very small.
807)	16 03 - 29 - 54	i	Very small.
808)	04 - 20 - 32	iPb	} Very small. Compr. $\Delta b = 192$ Km.
	- 50	iSb	
809)	10 - 19 - 34	iPg	} Very small. $\Delta g = 76$ Km.
	- 43	iSg	
810)	10 - 21 - 03	iPg	} Small. Compr. to SE. $\Delta g = 50$ Km.
	- 09	iSg	
811)	10 - 33 - 09	iPg	} Very small. Compr. to S \pm . $\Delta g = 68$ Km.
	- 17	iSg	
812)	11 - 54 - 28	iP	} Small to moderate. Dilat. to SE. Deep focus. 650 Km. $\Delta = 5110$ Km. = $46^{\circ}.0$. Fine example.
	56 - 15	ipP	
	12 - 00 - 30	iS	
	- 03 - 46	iSS	
813)	17 02 - 59 - 12	iPb	} Very small. Compr. to S \pm . $\Delta g = 76$ Km.
	- 21	iSb	
814)	07 - 45 - 51	iPg	} Very small. Compr. to N. $\Delta g = 41$ Km.
	- 56	iSg	
815)	09 - 50 - 07	iPb	} Very small. $\Delta b = 165$ Km.
	- 26	iSb	
816)	13 - 03 - 20	iPg	} Very small. Compr. $\Delta g = 7$ Km. Blast?
	- 21	iSg	
817)	18 00 - 04 - 02	iPg	} Very small. Dilat. to N \pm . $\Delta g = 33$ Km.
	- 06	iSg	
818)	00 - 10 - 32	i	Very small.
819)	04 - 22 - 13	iPb	} Very small. Dilat. to S. $\Delta b = 847$ Km.
	23 - 48 \pm	eSb	
820)	04 - 47 - 41 \pm	iPg	} Very small. $\Delta g = 76 \pm$ Km.
	- 50 \pm	iSg	
821)	08 - 22 - 38	iPb	} Very small. $\Delta b = 543$ Km.
	23 - 39	iSb	
822)	11 - 14 - 20 \pm	eP	} Very small. $\Delta = 1500 \pm$ Km. = $13^{\circ}.5$.
	17 - 00 \pm	eS	
823)	11 - 42 - 14	i	Very small.
824)	12 - 47 - 42	iPb	} Very small. $\Delta b = 210$ Km.
	48 - 06	iSb	
825)	16 - 13 - 26	iPb	} Very small. $\Delta b = 264$ Km.
	- 56 \pm	iSb	

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
19	No quakes.		
826)	20 02 - 09 - 41	iPb	} Very small. $\Delta b = 426$ Km.
	10 - 37	iSb	
827)	06 - 13 - 21	iPb	} Small. $\Delta b = 784$ Km.
	14 - 49	iSb	
828)	06 - 28 - 46	iPb	} Very small. $\Delta b = 758$ Km.
	- 30 - 11	iSb	
829)	15 - 03 - 42	iPb	} Small. Compr. to N \pm . $\Delta b = 201$ Km. Felt Vigan III.
	04 - 05	iSb	
830)	19 - 47 - 17	iPg	} Very small. $\Delta g = 102$ Km.
	- 29 \pm	iSg	
831)	21 09 - 22 - 43	iPg	} Very small. $\Delta g = 14\pm$ Km.
	- 45	iSg	
832)	16 - 09 - 33	iP	} Very small. $\Delta = 2645\pm$ Km. = 23 $^{\circ}$.8.
	13 - 51 \pm	eS	
833)	18 - 09 - 33	iP	} Moderate to large. $\Delta = 2645$ Km. = 23 $^{\circ}$.8.
	13 - 51	iS	
834)	22 08 - 24 - 30	i	} Very small.
835)	08 - 26 - 41	iPb	
	27 - 04	iSb	} Small. $\Delta b = 201$ Km.
836)	10 - 31 - 22	i	} Very small.
837)	12 - 18 - 52	iPb	
	19 - 48	iSb	} Very small. $\Delta b = 497$ Km.
838)	20 - 38 - 08	iPb	} Very small. Dilat. to N \pm . $\Delta b = 246$ Km.
	- 36	iSb	
839)	23 09 - 56 - 09 \pm	iP	} Very small. $\Delta = 1535\pm$ Km. = 13 $^{\circ}$.8.
	58 - 52 \pm	iS	
840)	13 - 11 - 13	iPn	} Very small. $\Delta n = 1100$ Km. = 9 $^{\circ}$.9.
	13 - 08	iSn	
841)	13 - 30 - 05	iPn	} Very small. $\Delta n = 1074\pm$ Km. = 9 $^{\circ}$.6.
	31 - 57 \pm	eSn	
842)	14 - 02 - 06	iPg	} Very small. $\Delta g = 50$ Km.
	- 12	iSg	
843)	15 - 41 - 19	iPb	} Very small. $\Delta b = 336$ Km.
	- 56	iSb	
844)	20 - 10 - 25	iPb	} Small. $\Delta b = 345$ Km.
	11 - 04	iSb	
845)	22 - 44 - 18	iPb	} Small. $\Delta b = 775\pm$ Km.
	45 - 45 \pm	iSb	
846)	24 04 - 13 - 19	iPg	} Very small. Dilat. to S \pm . $\Delta g = 84$ Km.
	- 29	iSg	
847)	06 - 20 - 22	i	} Very small.
848)	10 - 13 - 41	i	
849)	25 10 - 01 - 34	iPn	} Small. Compr. $\Delta n = 1152$ Km.
	03 - 34 \pm	iSn	

	<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
850)	25	16 - 07 - 53	iPg } iSg }	Very small. Compr. to S [±] . Δg = 92 Km.
851)		08 - 04	iPn } iSn }	Very small. Δn = 1044 [±] Km.
		16 - 11 - 14		
		13 - 03 [±]		
852)	26	03 - 16 - 21	iPb } iSb }	Small. Compr. to N. Δb = 273 [±] Km.
		- 52 [±]		
853)	27	06 - 58 - 14	i	Very small.
854)		23 - 40 - 23	iPb } iSb }	Very small. Δb = 165 Km.
		- 42		
855)	28	02 - 38 - 53	iPg } iSg }	Very small. Δg = 109 Km.
		39 - 06		
856)		05 - 12 - 41 [±]	iPg } iSg }	Very small. Δg = 33 [±] Km.
		- 45		
857)		09 - 58 - 45	iPg } iSg }	Moderate. Compr. to SW? Δg = 76 [±] Km. Folt Baguio Int. I.
		- 54 [±]		
858)		10 - 29 - 53	iPg } iSg }	Very small. Compr. to S [±] . Δg = 84 Km.
		30 - 03		
859)		20 - 32 - 56	iP	Very small but only on E-W long period.
		35 - 48	Phase?	Teleseismic traces 3 hours.
860)	29	04 - 03 - 30	iPg } iSg }	Very small. Δg = 84 Km.
		- 40		
861)		04 - 10 - 23	iPg } iSg }	Small. Dilat. to S [±] . P cresc. Δg = 92 Km.
		- 34		
862)		04 - 54 - 25	iPg } iSg }	Very small. Dilat. to S [±] . Δg = 33 Km.
		- 29		
863)		15 - 44 - 10	iP	Very small. Δ = 8510 [±] Km. = 58 [°] .6.
		52 - 20 [±]	eS	
864)		17 - 13 - 21	iPb } iSb }	Very small. Δb = 174 Km.
		- 41		
865)		18 - 31 - 18	iPg } iSg }	Very small. Compr. Δg = 102 Km.
		- 30		
866)	30	13 - 49 - 23	iPg } iSg }	Very small. Δg = 102 Km.
		- 35		
867)		17 - 39 - 32	iP } iS }	Small. Dilat. to N. Δ = 2035 Km. = 18 [°] .3.
		43 - 00		
868)		17 - 49 - 51	i	Very small.
869)	31	00 - 39 - 03	iPg } iSg }	Very small. Δg = 92 Km.
		- 14		
870)		00 - 54 - 19	i	Very small.
871)		11 - 39 - 53	iPb } iSb }	Very small. Δb = 317 Km.
		- 40 - 29		
872)		17 - 55 - 00 ff.	i	Very small. Teleseismic traces.

I-7-47



MANILA OBSERVATORY
Mirador, Baguio City
Philippines

NOV 15 1955

MONTHLY SEISMOLOGICAL BULLETIN

N.B. Due to the absence of Father Deppermann in the United States from April through one-half of September, the issuance of Seismic Bulletin has been delayed. We intend now to keep up-to-date in our Reports. The missing months will be gotten out gradually.

Lat. N. 16° 24' 39"

Long. E. 120° 34' 47"

Alt. 1507 meters

Instruments (All Sprengnethers)

Hard Limestone Bedrock

<u>Type</u>	<u>Component</u>	<u>Period</u>		<u>Magnification (Dynamic)</u>	
		<u>Seism.</u>	<u>Galv.</u>	<u>Maximum</u>	<u>Synchronous</u>
Photographic	Z	1.44 sec	1.42 sec	2685	1910
	E-W	10.85 "	12.00 "	2545	1855
	N-S	1.82 "	1.60 "	4826	4930
	N-S	11.90 "	12.00 "	Variable. Tests for optimum magnification.	
	E-W	1.53 "	1.70 "		

SEPTEMBER 1955

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
1	03 - 24 - ± ff.		Trace, long distance.
	05 - 57 - 10 ff.		Trace, teleseism.
	14 - 40 - 05	iPb	Dilat. Small. $\Delta b = 174 \pm$ Km.
	- 25	iSb	
2	18 - 55 - 02	iPg	Compr. Very small. $\Delta g = 109 \pm$ Km.
	- 15	iSg	
	21 - 17 - 29	eP	Very small. $\Delta = 2680 \pm$ Km. = $24^\circ.1$.
	- 21 - 49	eS	
3	02 - 07 - 20	iPg	Small. Compr. $\Delta g = 84$ Km.
	- 30	iSg	
	02 - 31 - 48	iPb	Compr. Very small. $\Delta b = 317 \pm$ Km.
	- 32 - 24	iSb	
	05 - 50 - 03	iPg	Dilat. P cresc. Mod. $\Delta g = 41 \pm$ Km. Felt Baguio II.
	- 08?	iSg	
	12 - 55 - 40	eP	Small. $\Delta = 2200 \pm$ Km. = $19^\circ.8$.
	59 - 22	eS	
	16 - 26 - 00	iP	Large. Compr. $\Delta = 2480$ Km. = $22^\circ.3$.
	30 - 04±	iS	
	16 - 38 - 20	i	Very small. Repetition of preceding.

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
4	05 - 04 - 47	iPb	Very small. Compr. $\Delta b = 165 \pm$ Km.
	05 - 06	iSb	
	11 - 49 - 45	iP	Very small. S indeterminate.
	16 - 10 - 07	ePb	Very small. $\Delta b = 389 \pm$ Km.
		iSb	
	19 - 16 - 12	eP	Very small. $\Delta = 3810 \pm$ Km. = $31^{\circ}.3$.
		eS	
	22 - 17 - 42	eP	Very small. S indeterminate. Felt Iloilo II.
	22 - 35 - 32	iPg	Very small. $\Delta g = 41$ Km.
iSg			
5	02 - 36 - 06 ff.		Very small. Teleseismic traces.
	04 - 20 - 38	iPb	Compr. Small. S indeterminate. $\Delta = 685$ Km. Felt Surigao II.
	16 - 47 - 36	eP	Very small. $\Delta = 2590 \pm$ Km. = $23^{\circ}.3$.
		eS	
	17 - 18 - 00 \pm	eP	Very small. Records too small to get phases well. S too difficult.
6	04 - 11 - 56	iPg	Very small. Dilatation. $\Delta g = 68 \pm$ Km.
	12 - 04	iSg	
	23 - 34 - 55	iPg	Very small. $\Delta g = 109 \pm$ Km.
		iSg	
7	03 - 28 - 57	eP	Very small. $\Delta = 6055$ Km. = $54^{\circ}.5$.
	36 - 41	eS	
	06 - 09 - 33	iPb	Small. $\Delta b = 587$ Km.
		iSb	
8	01 - 34 - 28	iPb	Very small. Compr. $\Delta b = 237 \pm$ Km.
	- 55	iSb	
	03 - 35 - 07	iP	Small. Compr. $\Delta = 4510 \pm$ Km. = $40^{\circ}.6$.
		iS	
	04 - 50 - 45	eP	Very small. S indeterminate.
	06 - 56 - 29	iPb	Very small. $\Delta b = 444$ Km.
		iSb	
	16 - 21 - 15	iPb	Small to med. Small compr. then large dilat. $\Delta = 121$ Km.
		iSb	
	16 - 26 - 43	iPb	Small. Small compr., then large dilat. $\Delta = 121$ Km.
		iSb	
	20 - 42 - 34	ePb	Very small. $\Delta b = 210 \pm$ Km.
		iSb	
	22 - 24 - 52	iPb	Very small. Compr. $\Delta b = 121 \pm$ Km.
iSb			
9	03 - 14 - 35	iP	Compression. S indeterminate.
	07 - 13 - 50	iPg	Very small. $\Delta g = 109 \pm$ Km.
		iSg	
	09 - 47 - 45	iP	Small. Compr. $\Delta = 3190$ Km. = $28^{\circ}.7$.
		iS	
	16 - 29 - 03	eP	Small. $\Delta = 4510$ Km. = $40^{\circ}.6$.
eS			

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
10	02 - 06 - 26	iPb	Small. $\Delta b = 237 \pm$ Km.
	53	iSb	
	19 - 57 - 17	iPg	Very small. Dilat. $\Delta g = 117$ Km.
	- 31	iSg	
	21 - 06 - 26	iPb	Small. $\Delta = 775$ Km.
	07 - 53	iSb	
11	07 - 19 - 12	iPb	Small. Compr. $\Delta b = 219$ Km.
	- 37	iSb	
	12 - 04 - 12	iPb	Very small. $\Delta b = 255 \pm$ Km.
	- 41	iSb	
	12 - 21 - 16	iPb	Very small. $\Delta b = 327 \pm$ Km.
	- 53	iSb	
	18 - 01 - 18	iPg	Very small. $\Delta g = 41$ Km.
	- 23	iSg	
	18 - 02 - 20	iP	Dilatation. Small. $\Delta = 4465$ Km. = $40^{\circ}.2$.
	08 - 36	iS	
	18 - 12 - 06	iP	Small. Small compr., larger dilat. $\Delta = 4490$ Km. = $40^{\circ}.4$.
	18 - 23	iS	
12	01 - 48 - 46	iP	Very small. Compr. $\Delta = 2020$ Km. = $18^{\circ}.2$.
	52 - 13	eS	
	06 - 21 - 43	iP	Small. Compr. $\Delta = 8955$ Km. = $80^{\circ}.6$.
	31 - 52	iS	
	13 - 14 - 40	eP	Very small. $\Delta g = 32 \pm$ Km.
	- 44	iS.	
13	02 - 10 - 55	iP	Compr. Very small. $\Delta = 6955 \pm$ Km. = $62^{\circ}.6$.
	- 19 - 30	iS	
	04 - 41 - 19	iPn	Very small. $\Delta n = 1064$ Km.
	- 43 - $10 \pm$	eSn	
	16 - 06 - 30	iPb	Small. Dilat. $\Delta b = 712 \pm$ Km.
	07 - 50	iSb	
	17 - 40 - 43	iP	Very small. $\Delta = 1765 \pm$ Km. = $15^{\circ}.9$.
	43 - 48	eS	
	18 - 00 - 37	iPb	Very small. $\Delta = 613$ Km. or 775 Km.
	01 - 46 or		
	02 - 04	iSb	Very small. $\Delta b = 452 \pm$ Km.
	20 - 15 - 16	ePb	
	- 16 - 07	eSb	
14	18 - 03 - 28	iPb	Small. $\Delta b = 210 \pm$ Km.
	- 52	iSb	
	18 - 38 - 37	iPb	Small. $\Delta b = 183 \pm$ Km.
	- 58	iSb	
	20 - 36 - 36	iPb	Dilat. Very small. $\Delta b = 192 \pm$ Km.
	- 58	iSb	
15	00 - 56 - 54	iPb	Moderate. Small compr., larger dilat. $\Delta b =$ $255 \pm$ Km.
	- 57 - 23	iSb	
	01 - 44 - 59	iPb	Small. Small dilat., larger compr. $\Delta b =$ $129 \pm$ Km.
	45 - 15	iSb	

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
15	02 - 21 - 09	iPb	Very small. $\Delta b = 246$ Km.
	- 37	iSb	
	03 - 23 - 43	iPb	Very small. $\Delta b = 255 \pm$ Km.
	24 - 12	iSb	
	11 - 31 - 52	eP	Very small. Teleseismic. S indeterminate.
	12 - 35 - 54	eP	Small. $\Delta = 2710 \pm$ Km. = $24^{\circ}.4$.
	40 - 17	iS	
	13 - 51 - 26	iPb	Small. Compr. to N \pm . $\Delta b = 148$ Km.
	- 43	iSb	
16	18 - 34 - 18	iPb	Very small. S indeterminate. Felt Cotabato IV.
17	04 - 01 - 20	iPb	Very small. $\Delta b = 210 \pm$ Km.
	- 44	iSb	
	06 - 45 - 17	iP	Very small. Dilatation. S indeterminate.
	07 - 34 - 48	iP	Very small. $\Delta = 1710 \pm$ Km. = $15^{\circ}.4$.
	37 - 48	iS	
	15 - 43 - 23	iPg	Very small. $\Delta g = 109$ Km.
	- 36	iSg	
	18 - 11 - 46	iP	Compr. P cresc. S indeterminate.
18	09 - 56 - 59	i	Very small.
	20 - 27 - 15	iPg	Very small. $\Delta g = 92$ Km.
	- 26	iSg	
19	02 - 20 - 54	iPg	Very small. Compr. $\Delta g = 117 \pm$ Km.
	21 - 08	iSg	
	03 - 59 - 27	iPb	Very small. $\Delta b = 148$ Km.
	- 44	iSb	
	04 - 13 - 52	eP	Very small. Teleseismic. S indeterminate.
	22 - 27 - 49	iPg	Very small. Compr. $\Delta g = 84 \pm$ Km.
	- 59	iSg	
20	13 - 32 - 08	eP	Very small. $\Delta = 8465$ Km. = $76^{\circ}.2$.
	- 41 - 56	eS	
21	06 - 49 - 33	iP	Small. Compr. $\Delta = 6200 \pm$ Km. = $55^{\circ}.8$.
	57 - 25 \pm	eS	
	07 - 14 - 05	iPg	Very small. $\Delta g = 102 \pm$ Km.
	- 17	iSg	
	13 - 45 ff.		Teleseismic traces EL, NL.
	22 - 50 ff.		Teleseismic traces EL, NL.
22	03 - 27 - 02	iPb	Moderate. P cresc. Dilat. $\Delta = 873 \pm$ Km. = $7^{\circ}.8$.
	- 88 - 40	iSb	
	03 - 39 - 30	i	Small. On top of preceding quake.
	16 - 03 - 37	iPb	Very small. $\Delta b = 210 \pm$ Km.
	04 - 03	iSb	
23	15 - 11 - 02	iP	Mod. to large. Only NL readable due to large typhoon micros. $\Delta = 2200 \pm$ Km. = $19^{\circ}.8$.
	14 - 44	iS	
24	06 - 41 - 14	iPg	Very small. $\Delta g = 84 \pm$ Km.
	- 24	iSg	
	11 - 23 - 01	iP	Small to moderate. S indeterminate.

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
25	18 - 48 - 30	iPb	Very small. $\Delta b = 282 \pm \text{Km.}$
	49 - 02	iSb	
	19 - 02 - 17	iP	Small. Small compr., larger dilat. $\Delta = 1465 \pm \text{Km.} = 13^{\circ}.2.$
	04 - 54	iS	
26	07 - 45 - 16	iP	Very small. S indeterminate.
	08 - 47 - 26	iP	Small. Compr. $\Delta = 1835 \pm \text{Km.} = 16^{\circ}.6.$
	50 - 37	iS	
	11 - 25 - 16	iPg	Very small. $\Delta g = 109 \pm \text{Km.}$
	29	iSg	
	17 - 34 - 28	iPb	Very small. Compr. $\Delta b = 264 \pm \text{Km.}$
	- 58	iSb	
	22 - 43 - 00	iPg	Small. Compr. $\Delta g = 102 \pm \text{Km.}$
- 12	iSg		
27	16 - 57 - 27	iPb	Very small. $\Delta b = 165 \pm \text{Km.}$
	- 46	iSb	
	20 - 07 - 02	iPg	Very small. Dilat. $\Delta g = 23 \pm \text{Km.}$
	- 05	iSg	
	20 - 15 - 57	iPg	Very small. Compr. $\Delta g = 33 \pm \text{Km.}$
	16 - 01	iSg	
28	01 - 51 - 14	iP	Very small. $\Delta = 2355 \pm \text{Km.} = 21^{\circ}.2.$
	55 - 08	iS	
	04 - 24 - 43	iPb	Small. $\Delta b = 685 \pm \text{Km.}$
	26 - 00 \pm	iSb	
	04 - 01 - 04	i	Very small. Blast?
	04 - 31 - 35	i	Very small. Blast?
	05 - 46 - 55	iPb	Small. $\Delta b = 165 \pm \text{Km.}$
	47 - 14	eSb	
	08 - 15 - 02	iPb	Very small. $\Delta b = 174 \pm \text{Km.}$
	- 22	iSb	
	11 - 46 - 46	iPb	Very small. $\Delta b = 210 \pm \text{Km.}$
	- 47 - 10	iSb	
	11 - 55 - 02	ePb	Very small. $\Delta b = 515 \pm \text{Km.}$
	56 - 00	iSb	
	13 - 18 - 52	iPb	Very small. $\Delta b = 318 \pm \text{Km.}$
	- 19 - 28	iSb	
	22 - 15 - 18	iPb	Small. $\Delta b = 156 \pm \text{Km.}$
- 36	iSb		
29	05 - 02 - 19	iPb	Very small. $\Delta b = 129 \pm \text{Km.}$
	- 34	iSb	
	07 - 47 - 34	iPb	Very small. $\Delta b = 129 \pm \text{Km.}$
	- 49	iSb	
	14 - 32 - 00	iPb	Very small. $\Delta b = 470 \text{ Km.}$
	- 53	iSb	
	15 - 27 - 43	iPb	Very small. $\Delta b = 228 \pm \text{Km.}$
	28 - 09?	iSb	
	20 - 04 - 21	iP	Very small. $\Delta = 3280 \pm \text{Km.} = 29^{\circ}.5.$
	09 - 23	iS	
21 - 24 - 51	iPb	Very small. $\Delta b = 156 \pm \text{Km.}$	
- 25 - 09	iSb		
30	03 - 11 - 19	iP	Small. Compr. $\Delta = 1345 \pm \text{Km.} = 12^{\circ}.1.$
	13 - 44 \pm	eS	
	07 - 03 - 55	iPb	Small to mod. $\Delta b = 1133 \pm \text{Km.} = 10^{\circ}.2.$
	05 - 53 \pm	iSb	
	15 - 53 - 12	iPg	Small. $\Delta g = 62 \pm \text{Km.}$
- 20	iSg		

MANILA OBSERVATORY
Mirador, Baguio City
Philippines



MONTHLY SEISMOLOGICAL BULLETIN

Lat. N. 16° 24' 39"

Long. E. 120° 34' 47"

Alt. 1507 meters

Instruments (All Sprengnethers)

Hard Limestone Bedrock

<u>Type</u>	<u>Component</u>	<u>Period</u>		<u>Magnification (Dynamic)</u>	
		<u>Seism.</u>	<u>Galv.</u>	<u>Maximum</u>	<u>Synchronous</u>
Photographic	Z	1.44 sec	1.42 sec	2685	1910
	E-W	10.85 "	12.00 "	2545	1855
	N-S	1.82 "	1.60 "	2826	4930
Photoelectric	N-S	11.90 "	12.00 "	Variable. Tests for optimum magnification.	
Visual recording	E-W	1.53 "	1.70 "		

OCTOBER 1955

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
1	04 - 20 - 30	iP	Very small. S indeterminate. Small. Dilat. $\Delta = 2590$ Km. = $23^{\circ}.3$.
	06 - 34 - 53	iP	
	- 39 - 06	iS	Very small. $\Delta b = 712$ Km.±.
	08 - 29 - 46	ePb	
	31 - 06	iSb	Very small. $\Delta b = 604^{\pm}$ Km.
	12 - 19 - 11	iPb	
	20 - 19 - 19±	iSb	Small. Dilat. $\Delta = 121^{\pm}$ Km.
	20 - 01 - 30	iPb	
01 - 44	iSb		
2	17 - 23 - 36	iPb	Very small. $\Delta b = 143$ Km.
	52	iSb	
3	13 - 31 - 55	iPb	Very small. Compr. $\Delta b = 148$ Km.±
	32 - 12	iSb	
	16 - 00 - 18±	iPb	Very small. Compr. $\Delta b = 165$ Km.
	00 - 27	iSb	
	22 - 27 - 04	iPb	Very small. Compr. $\Delta b = 174$ Km.
- 24	iSb		
4	12 - 43 - 00	iPb	Small to moderate. Small dilat., larger compr. $\Delta b = 185$ Km.
	- 33	iSb	
5	09 - 06 - 42	iP	Very small. S indeterminate. Very small. $\Delta b = 121$ Km.
	18 - 03 - 58	iPb	
	- 04 - 12	iSb	Very small. $\Delta g = 85$ Km.
	02 - 29 - 08	iPg	
	- 18	iSg	

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
6	01 - 42 - 09	iPg } iSg }	Very small. $\Delta g = 102$ Km.
	02 - 35 - 13	iPg } iSg }	Small. $\Delta g = 102$ Km.
	11 - 21 - 48	eP	Very small. S indeterminate. Teleseismic.
7	01 - 46 - 29	iPb } iSb }	Very small. $\Delta b = 121$ Km.
	11 - 49 - 55	iPb } iSb }	Small. $\Delta b = 148$ Km.
	16 - 29 - 56	iPb } iSb }	Small. Compr. to S \pm . $\Delta b = 228$ Km.
8	09 - 07 - 52	iPb } iSb }	Very small. $\Delta b = 129$ Km.
	13 - 40 - 10	iPg } iSg }	Small. $\Delta g = 109$ Km.
9	12 - 06 - 39	iPb } iSb }	Very small. $\Delta b = 856\pm$ Km.
	14 - 30 - 43	iPg } iSg }	Very small. $\Delta b = 109$ Km.
	17 - 47 - 34	iP	Small. Dilat. $\Delta = 873$ Km. or $\Delta = 3900$ Km. = 35 $^{\circ}$.1.
	18 - 03 - 20	iPg } iSg }	Very small. $\Delta g = 84$ Km.
	22 - 40 - 31	iPb } iSb }	Very small. $\Delta b = 129$ Km.
10	00 - 20 - 45	iPg } iSg }	Small to moderate. Dilat. to N \pm . P cresc. $\Delta g = 76$ Km.
	01 - 17 - 07	iPb } iSb }	Very small. $\Delta b = 165$ Km.
	08 - 08 - 16	iPb } iSb }	Very small. $\Delta b = 174$ Km.
	09 - 05 - 10	iP	Small to moderate. Dilat. to SW. $\Delta = 4200$ Km. = 37 $^{\circ}$.8.
	18 - 24 - 44	iPb } iSb }	Very small. $\Delta b = 156$ Km.
	23 - 53 - 20	iPb } iSb }	Very small. $\Delta b = 156$ Km.
11	00 - 25 - 30	iPb } iSb }	Small. Small dilat., larger compr. $\Delta b = 174$ Km.
	00 - 56 - 49	iPb } iSb }	Very small. $\Delta b = 148$ Km.
	01 - 18 - 32	iP	Small. S indeterminate.
	05 - 04 - 15 \pm	iPb } iSb }	Very small. $\Delta b = 657\pm$ Km.

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
11	13 - 29 - 50	iP	Very small. Small compr., larger dilat. $\Delta = 1980 \text{ Km.} = 17^{\circ}.8.$
	33 - 14	iS	
	21 - 57 - 35	iPb	Very small. $\Delta b = 578 \pm \text{ Km.}$
	58 - 40	eSb	
12	05 - 24 - 44	iP	Very small. S indeterminate.
	08 - 28 - 15	iPb	Very small. $\Delta b = 147 \pm \text{ Km.}$
	- 32	iSb	
	10 - 41 - 19	iPb	Very small. $\Delta b = 380 \pm \text{ Km.}$
	42 - 02	iSb	
	16 - 29 - 31	iPg	Very small. $\Delta g = 109 \pm \text{ Km.}$
- 44	iSg		
13	04 - 35 - 23	iP	Small. Compr. to NE. $\Delta = 5165 \text{ Km.} = 46^{\circ}.5.$
	- 42 - 17	iS	
	17 - 52 - 09	iPb	Small. Dilat. $\Delta b = 784 \text{ Km.}$
	- 53 - 11	iSb	
	19 - 21 - 59	iPb	Very small. $\Delta b = 354 \text{ Km.}$
22 - 39	iSb		
14	10 - 07 - 19	i	Very small.
15	18 - 27 - 14	iPb	Very small. $\Delta b = 147 \text{ Km.}$
	- 31	iSb	
	21 - 33 - 53	iP	Very small. Compr. $\Delta = 1655 \text{ Km.} = 14^{\circ}.9.$
	36 - 47	iS	
17	01 - 15 - 50	iP	Very small. Dilat. $\Delta = 4180 \text{ Km.} = 37^{\circ}.6.$
	21 - 49	iS	
	05 - 20 - 16	iPb	Very small. Compr. $\Delta b = 936 \text{ Km.}$
	- 22 - 01	iSb	
	06 - 21 - 03	iPb	Very small. $\Delta b = 291 \text{ Km.}$
	- 36	iSb \pm	
	07 - 01 - 26	iPg	Very small. Dilat. $\Delta g = 41 \text{ Km.}$
	31	iSg	
	20 - 29 - 55	iPb	Very small. $\Delta b = 318 \text{ Km.}$
	30 - 31	iSb	
18	05 - 35 - 54	iPb	Very small. Dilat. $\Delta b = 201 \text{ Km.}$
	36 - 17	iSb	
19	01 - 51 - 32	iP	Very small. S indeterminate.
	10 - 02 - 49	iP	Very small. Compr. to S \pm . $\Delta = 4580 \text{ Km.} = 41^{\circ}.2.$
	- 09 - 11	eS	
	12 - 11 - 46	iPb	Small. Compr. $\Delta b = 345 \text{ Km.}$
	- 12 - 25	iSb	
	13 - 21 - 02	iPb	Very small. Compr. $\Delta b = 219 \pm \text{ Km.}$
- 27	iSb		
23 - 35 - 47	i	Very small.	

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
20	01 - 03 - 23	iPg	Small. Compr. $\Delta g = 23$ Km.
	- 26	iSg	
	06 - 30 - 35 \pm	iP	Very small. $\Delta = 1152\pm$ Km.
	- 32 - 35 \pm	iS	
	19 - 41 - 08	iPb	Very small. Compr. $\Delta b = 389$ Km.
- 52	iSb		
21	04 - 37 - 56	iP	Very small. Compr. $\Delta = 2920\pm$ Km. = $26^{\circ}.3$.
	42 - 34	iS	
	05 - 56 - 50	iPb	Very small. $\Delta b = 291$ Km.
	- 57 - 23	iSb	
	16 - 47 - 33	iPb	Very small. $\Delta b = 543$ Km.
	48 - 34	iSb	
	16 - 51 - 08	iSb	Very small. P lost in previous quake. Twins? Small. Dilat. to SW? $\Delta = 6755$ Km. = $60^{\circ}.8$.
	19 - 12 - 44	iP	
	21 - 08	eS	Small. Dilat. to S \pm . $\Delta = 1980$ Km. = $17^{\circ}.8$.
	23 - 13 - 23	eP	
	16 - 49	iS	
22	02 - 25 - 26	i	Very small.
	11 - 22 - 34	iP	Very small. Compr. $\Delta = 1835$ Km. = $16^{\circ}.5$.
	- 25 - 45	iS	
	12 - 43 - 30	i	Very small. Probably local.
	12 - 47 - 40 \pm	i	Very small.
	12 - 51 - 26 \pm	i	Very small.
	19 - 37 - 18	iPg	Very small. $\Delta g = 102$ Km.
	- 30	iSg	
	21 - 55 - 52	iPb	Very small. $\Delta b = 183\pm$ Km. Compr.
	- 56 - 13	iSb	
	22 - 13 - 58	iP	Very small. Compr. $\Delta = 3790\pm$ Km. = $34^{\circ}.1$.
- 19 - 32	iS		
23	06 - 21 - 48	iPb	Very small. $\Delta b = 417$ Km. \pm
	- 22 - 35?	iSb	
	17 - 13 - 10	i	Very small.
17 - 29 - ff.			Teleseismic traces. EL.
24	00 - 27 - 02	iPb	Very small. Compr. to N \pm . $\Delta b = 255\pm$ Km.
	- 31	iSb	
	06 - 16 - 39	iPb	Very small. $\Delta b = 138$ Km.
	- 55	iSb	
	18 - 04 - 56	iPg	Very small. $\Delta g = 23$ Km.
	- 59	iSg	
25	16 - 05 - 08	iPb	Very small. $\Delta b = 461$ Km. or 856 Km.
	06 - 00 \pm		
	or 06 - 44	iSb	

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>R e m a r k s</u>
26	00 - 20 - 35	iPg } iSg }	Very small. Dilat. to S±. $\Delta g = 58$ Km.
	- 42		
	04 - 26 - 13	iPg } iSg }	Very small. Compr. to S±. $\Delta g = 117\pm$ Km.
	- 27		
	04 - 34 - 00	iPb } iSb }	Very small. $\Delta b = 299$ Km.
	- 34		
	08 - 17 - 18	iPb }	Small. $\Delta b = 840\pm$ Km.
	- 18 - 50±	eSb }	
	11 - 14 - 34	iP }	Small. $\Delta = 1600\pm$ Km. = $14^{\circ}.4$. Compr. to S±.
	17 - 23±	eS }	
16	- 29 - 11	iPb }	Very small. $\Delta b = 148$ Km.
	- 28	iSb }	
	21 - 37 - 17	iPg }	Very small. $\Delta g = 84$ Km.
		- 27±	iSg }
27	06 - 41 - 25	iPb }	Small. $\Delta b = 444\pm$ Km.
	- 42 - 15	iSb }	
	11 - 15 - 50	iPb }	Very small. $\Delta b = 147$ Km.
	16 - 07	iSb }	
	12 - 27 - 37	iPb }	Very small. $\Delta b = 784$ Km.
	29 - 05	iSb }	
	22 - 53 - 07	iPg }	Very small. $\Delta g = 41$ Km.
- 12	iSg }		
28	19 - 06 - 18±	iPb }	Very small. $\Delta b = 444\pm$ Km.
	07 - 08±	eSb }	
29	10 - 56 - 42	iPb }	Small. Compr. $\Delta b = 156$ Km.
	- 57 - 00	iSb }	
	11 - 29 - 07	iPg }	Very small. $\Delta g = 92\pm$ Km.
- 18	iSg }		
30	11 - 38 - 47	iP }	Small. $\Delta = 1955$ Km. = $17^{\circ}.6$.
	42 - 09	eS }	
	19 - 30 - 51	i	Very small. Local.
31	01 - 58 - 30	iPg }	Very small. $\Delta g = 76$ Km.
	- 39	iSg }	
	21 - 58 - 29	iPg }	Very small. $\Delta g = 58$ Km.
	- 36	iSg }	

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MANILA OBSERVATORY
Mirador, Baguio City
Philippines



1-7 JAN 1956

MONTHLY SEISMOLOGICAL BULLETIN

Lat. N. 16° 24' 39"

Long. E. 120° 34' 47"

Alt. 1507 meters

Instruments (All Sprengnethers)

Hard Limestone Bedrock.

<u>Type</u>	<u>Component</u>	<u>Period</u>		<u>Magnification (Dynamic)</u>	
		<u>Seism.</u>	<u>Galv.</u>	<u>Maximum</u>	<u>Synchronous</u>
Photographic	Z	1.44 sec	1.42 sec	2685	1910
	E-W	10.85 "	12.00 "	2545	1855
	N-S	1.82 "	1.60 "	2826	4930
Photoelectric Visual recording	N-S	11.90 "	12.00 "	Variable. Tests for optimum magnification.	
	E-W	1.53 "	1.70 "		

NOVEMBER 1955

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
1	01 - 32 - 19	iPg	Very small. $\Delta g = 84$ Km.
	- 29	iSg	
	01 - 49 - 31	iPg	Very small. $\Delta g = 84$ Km.
	- 41	iSg	
	02 - 28 - 45	iPb	Small. Dilat. $\Delta b = 138$ Km.
	29 - 01	iSb	
14 - 38 - 15	iPb	Very small. Compr. $\Delta b = 121$ Km.	
- 29	iSb		
23 - 57 -	ff.	Teleseismic traces.	
2	04 - 47 - 19±	iPg	Very small. $\Delta g = 41±$ Km.
	- 24±	iSg	
	12 - 12 - 58	iPg	Very small. $\Delta g = 58$ Km.
	13 - 05	iSg	
	17 - 30 - 49	iPb	Very small. $\Delta b = 264±$ Km.
	31 - 19±	iSb	
	18 - 39 - 11	iP	Small. $\Delta = 1455$ Km. = $13^{\circ}.1$.
	41 - 47	iS	
23 - 42 - 32	iPb	Small. $\Delta b = 121$ Km.	
- 46	iSb		
3	11 - 46 - 45	iPb	Very small. $\Delta b = 129$ Km.
	47 - 00	iSb	
	20 - 02 - 05	iPb	Small. $\Delta b = 138$ Km.
- 21	iSb		
4	23 - 03 - 52	iP	Very small. S indeterminate.
	23 - 56 - 32	iPb	Very small. Compr. $\Delta b = 192$ Km.
	- 54	iSb	
5	12 - 25 - 50	iP	Very small. $\Delta = 1155$ Km. = $10^{\circ}.4$.
	27 - 58	eS?	

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
6	12 - 08 - 17	iPb	Small. Compression to N±. $\Delta b = 156$ Km.
	- 35	iSb	
	14 - 02 - 48	iPb	Very small. $\Delta b = 426$ Km.
	03 - 36	iSb	
	17 - 45 - 05	iPg	Very small. $\Delta g = 68$ Km.
	13	iSg	
	21 - 26 - 51	iPg	Very small. $\Delta g = 102$ Km.
27 - 03	iSg		
21 - 52 - 22	iPg	Small. Compr. $\Delta g = 102$ Km. Felt Baguio I.	
- 34	iSg		
7	02 - 27 - 09	iPg	Very small. Dilat. to N±. $\Delta g = 58$ Km.
	- 16	iSg	
	15 - 40 - 57±	iPg	Very small. $\Delta g = 108$ Km.
	41 - 09	iSg	
	16 - 03 - 11	iPg	Very small. $\Delta g = 102$ Km.
- 23	iSg		
8	00 - 10 - 47	iS	Very small. P indeterminate.
	00 - 21 - 16	iPg	
	- 26	iSg	Small. $\Delta g = 84$ Km.
	03 - 45 - 35	iPb	
- 54	iSb	Small. P cresc. S difficult. $\Delta b = 165±$ Km.	
9	No quakes.		
10	01 - 31 - 58	i	Very small. Lost in micros.
	01 - 55 - 27	iPg	
	39	iSg	Very small. $\Delta g = 102$ Km.
	08 - 00 - 51	iPg	
	- 53	iSg	
11	11 - 31 - 29	iPn	Very small. Difficult. $\Delta n = 1083±$ Km.
	33 - 22±	iSn	
12	05 - 44 - 02	iP	Very small. S indeterminate, because of micros.
	10 - 15 - 20	iP	
	11 - 14 - 35	iPn	Small. S indeterminate. Micros.
	16 - 05	iSn	
	20 - 58 - 46	iPb	
59 - 04	iSb	Very small. $\Delta b = 156±$ Km.	
13	No quakes.		
14	03 - 18 - 27	iPb	Very small. Compr. to S±. $\Delta b = 488$ Km.
	19 - 22	iSb	
	13 - 28 - 20	iP	Very small. Compr. $\Delta = 2490±$ Km. = $22^{\circ}.4$.
	32 - 25±	iS	
	21 - 24 - 52	iPb	Very small. Compr. to S±. $\Delta b = 180$ Km.
25 - 12	iSb		
15	04 - 40 - 39	iPg	Very small. Dilat. $\Delta g = 58±$ Km.
	- 46	iSg	
	10 - 18 - 23	iP	Small. $\Delta = 8045$ Km. = $72^{\circ}.4$.
	27 - 51	iS	
	15 - 10 - 28	iPg	Very small. Compr. $\Delta g = 117$ Km.
- 42	iSg		

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
15	15 - 14 - 53	iPg	Very small. $\Delta g = 102$ Km.
	15 - 05	iSg	
	15 - 22 - 43	iPg	Moderate. $\Delta g = 84$ Km. Felt Dagupan, Iba IV, Baguio I.
	- 53	iSg	
	17 - 13 - 30	iPg	Very small. $\Delta g = 117$ Km.
	- 44	iSg	
	17 - 15 - 07	iS	Very small. P lost in preceding quake.
	21 - 38 - 32	iPg	Very small. $\Delta g = 109$ Km.
	- 45	iSg	
	23 - 37 - 21	iPg	Very small. $\Delta g = 33$ Km.
	- 25	iSg	
16	06 - 41 - 30	iPg	Moderate to large. Compr. to SW. $\Delta g = 92$ Km.
	- 41	iSg	
	06 - 44 - 20	i	Aftershock. Very small.
	07 - 31 - 14	iPg	Very small. Dilat. $\Delta g = 92$ Km.
	32 - 05	iSg	
	07 - 40 - 14	iPg	Very small. $\Delta g = 92$ Km.
	- 23	iSg	
	13 - 30 - 52	iPb	Very small. Compr. $\Delta b = 264$ Km.
	31 - 22	iSb	
	14 - 41 - 52	iPg	Very small. $\Delta g = 102$ Km.
	42 - 04	iSg	
	18 - 39 - 00	iPg	Very small. $\Delta g = 102$ Km.
	39 - 12	iSg	
	21 - 52 - 06	iPg	Very small. Dilat. $\Delta g = 102$ Km.
	- 18	iSg	
	22 - 12 - 24	iPg	Very small. Dilat. $\Delta g = 102$ Km.
	36	iSg	
	23 - 03 - 06	iPg	Very small. Dilat. $\Delta g = 102$ Km.
	- 18	iSg	
17	00 - 03 - 08	iPg	Very small. Dilat. $\Delta g = 102$ Km.
	03 - 20	iSg	
	00 - 17 - 22	iS	Very small. P poor. Photogr. records being changed.
	00 - 35 - 20	iPg	Very small. $\Delta g = 109$ Km.
	- 33	iSg	
	08 - 00 - ±	i	Teleseismic traces. 08 - 00 to 08 - 30.
	19 - 07 - 15	iPg	Small. Compr. $\Delta g = 109$ Km.
	28	iSg	
18	08 - 29 - 33	iPb	Very small. Compr. $\Delta b = 363$ Km.
	30 - 14	iSb	
	10 - 35 - 19	iPg	Very small. $\Delta g = 92$ Km.
	- 30	iSg	
19	04 - 29 - 09	iPb	Small. $\Delta b = 336$ Km.
	- 47	iSb	
	08 - 35 - 37	iPg	Very small. $\Delta g = 50$ Km.
	- 43	iSg	
	11 - 12 - 03	iPb	Small to moderate. Compr. to SW. $\Delta b = 291$ Km.
	- 36	iSb	
	18 - 26 - 15	iPb	Very small. $\Delta b = 255$ Km.
	- 44	iSb	

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
19	21 - 15 - 08	iPb	Very small. Compr. $\Delta g = 92$ Km.
	- 19	iSb	
	23 - 53 - 05	iPb	Very small. Compr. $\Delta b = 156$ Km.
	- 23	iSb	
20	14 - 19 - 04	iPg	Very small. $\Delta g = 41$ Km.
	- 09	iSg	
21	15 - 43 - 48	iPb	Very small. $\Delta b = 282 \pm$ Km.
	44 - 20 \pm	iSb	
	20 - 59 - 47	i	Very small.
	21 - 14 - 58	iPb	Very small. Difficult to interpret. $\Delta b =$ 533 \pm Km.
	15 - 58	iSb	
22	03 - 54 - \pm	e	Teleseismic traces. 03 - 54 to 4 - 10.
23	06 - 37 - 43	iP	Small to moderate. $\Delta = 4820$ Km. = 43 $^{\circ}$.4.
	44 - 18	iS	
	08 - 36 - 26	iPb	Small. $\Delta b = 748$ Km.
	37 - 50	iSb	
	13 - 30 - 42	iPb	Very small. $\Delta b = 515$ Km.
	31 - 40	iSb	
	15 - 48 - 40	iPg	Very small. $\Delta g = 102$ Km.
	- 52	iSg	
24	04 - 52 - 11	iPb	Moderate. Compr. to SW. $\Delta b = 345$ Km.
	- 50	iSb	
	11 - 18 - 48	iP	Very small. S indeterminate. Dilat.
	16 - 36 - 53	iPb	Very small. $\Delta b = 354$ Km.
	37 - 33	iSb	
25	05 - 41 - 23	iPb	Small. $\Delta b = 138$ Km. Dilat.
	- 39	iSb	
26	No quakes.		
27	02 - 42 - 03	iPg	Very small. $\Delta g = 112$ Km.
	- 15	iSg	
	17 - 10 - 42	iPb	Very small. $\Delta b = 148$ Km.
	- 59	iSb	
	19 - 32 - 26	iPn	Small. Dilat. to N \pm . $\Delta n = 1044$ Km.
	34 - 15	iSn	
	21 - 33 - 26	i	Very small.
28	12 - 21 - 29	iPg	Very small. $\Delta g = 50$ Km.
	- 35	iSg	
29	03 - 58 - 46	iPb	Small to moderate. Compr. $\Delta b = 361$ Km. Felt Paluan IV (Batanes), Aparri II.
	59 - 25	iSb	
	09 - 38 - 45	i	Very small.
	15 - 03 - 37 \pm	iPb	Small to moderate. $\Delta b = 138 \pm$ Km.
	53	iSb	
	16 - 50 - 01	iPg	Very small. $\Delta g = 112$ Km.
	- 13	iSg	
30	No quakes.		

MANILA OBSERVATORY
Mirador, Baguio City
Philippines



MONTHLY SEISMOLOGICAL BULLETIN

Lat. N. 16° 24' 39"

Long. E. 120° 34' 47"

Alt. 1507 meters

Instruments (All Sprengnethers)

Hard Limestone Bedrock

<u>Type</u>	<u>Component</u>	<u>Period</u>		<u>Magnification (Dynamic)</u>	
		<u>Seism.</u>	<u>Galv.</u>	<u>Synchronous</u>	
Photographic	Z	1.41 sec	1.37 sec	Circa	3367
	E-W	10.90 "	11.70 "		2000
	N-S	1.84 "	1.67 "		2451
Photoelectric	N-S	11.80 "	12.00 "		1000
	Visual recording	E-W	1.54 "	1.49 "	3000

DECEMBER 1955

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
1182)	1 14 - 32 - 44	iPb } iSb }	Very small. $\Delta b = 174$ Km.
1183)	16 - 26 - 25 - 38	iPg } iSg }	Very small. $\Delta g = 109$ Km.
1184)	2 09 - 55 - 27	iPb } iSb }	Very small. $\Delta b = 622$ Km.
1185)	12 - 28 - 02 29 - 50±	iPn } iSn }	Very small. Dilat. $\Delta n = 1034$ Km.
1186)	4 21 - 29 - 00 - 17	iPb } iSb }	Very small. Compr. to N±.
1187)	5 02 - 32 - 13 - 35±	iPb } iSb }	Moderate. Dilat. to NE. $\Delta b = 192±$ Km. Int. III+ - Tuguegarao, Bangued I.
1188)	18 - 12 - 43 13 - 02	iPb } iSb }	Very small. Compr. to NW? $\Delta b = 165$ Km. Felt Tuguegarao Int. IV+, Bangued II+.
1189)	20 - 16 - 16	iP	Very small. Compr. S indeterminate.
1190)	6 02 - 23 - 00±		Very small. Teleseismic traces 02-23 to 03-10.
1191)	04 - 21 - 25 - 28	iPg } iSg }	Very small. $\Delta g = 23$ Km.
1192)	04 - 21 - 00		Very small. Teleseismic traces 04-21 to 06-40.
1193)	05 - 06 - 01 - 12	iPg } iSg }	Small. Compr. to N±. $\Delta g = 92$ Km.
1194)	05 - 10 - 00		Very small. Teleseismic traces. 05-10 to 06-40.
1195)	09 - 35 - 09 - 24±	iPb } iSb }	Very small. $\Delta b = 129±$ Km.
1196)	10 - 55 - 31 - 45±	iPb } iSb }	Very small. Dilat. $\Delta b = 210$ Km.

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
1197)	6	16 - 33 - 34 - 40	iPg } iSg } Very small. Dilat. $\Delta g = 50$ Km.
1198)		18 - 01 - 24 41	iPb } iSb } Small. $\Delta b = 148$ Km.
1199)		18 - 47 - 04 17	iPg } iSg } Very small. $\Delta g = 109$ Km.
1200)		19 - 21 - 04 - 17	iPg } iSg } Very small. Compr. $\Delta g = 109$ Km.
1201)		19 - 29 - 04 - 14	iPg } iSg } Very small. $\Delta g = 84$ Km.
1202)	7	13 - 58 - 56 59 - 33	iPb } eSb } Very small. $\Delta b = 327$ Km.
1203)		15 - 08 - 18 12 - 30 \pm	iP } iS } Small. Compr. to NW. $\Delta = 2580\pm$ Km. = 23 $^{\circ}$.2.
1204)		22 - 58 - 00 \pm 59 - 08	iPb } iSb } Very small. $\Delta b = 604\pm$ Km.
1205)	8	12 - 13 - 53 \pm 14 - 24	iPb } iSb } Very small. $\Delta b = 273\pm$ Km.
1206)		17 - 42 - 32 47 - 46	iP } iS } Small. Compr. to SE. Possibly deep focus with iS - iS = 3 m . Δ (not deep) = 3465 Km. = 31 $^{\circ}$.2.
1207)	10	09 - 04 - 45 - 58	iPg } iSg } Very small. Dilat. $\Delta g = 109$ Km.
1208)	11	02 - 27 - 00 \pm	i
1209)		06 - 49 - 04 - 42	iPb } iSb } Very small. $\Delta b = 336$ Km.
1210)	12	09 - 01 - 58 04 - 20	iP } iS } Small. $\Delta = 1310$ Km. = 11 $^{\circ}$.8.
1211)		09 - 34 - 45	i
1212)		13 - 56 - 57 57 - 15	iPb } iSb } Very small. Compr. $\Delta b = 156$ Km.
1213)	13	02 - 56 - 32 - 34	iPg } iSg } Very small. $\Delta g = 14$ Km. Probably blast.
1214)	14	06 - 27 - 10	i
1215)		07 - 30 - 20 23	iPg } iSg } Very small. $\Delta g = 23$ Km.
1216)		10 - 57 - 31	iP
1217)		18 - 53 - 02 - 15	iPg } iSg } Small. S indeterminate. Very small. $\Delta g = 109$ Km.
1218)		22 - 06 - 47	i
1219)	15	19 - 15 - 07 18 - 25	iP \pm } eS \pm } Small. Only on EL, NL. $\Delta = 1910\pm$ Km. = 17 $^{\circ}$.2. Large typhoon micros.
1220)	16	17 - 21 - 17 - 34	iPb } iSb } Very small. Compr. to S. $\Delta b = 148$ Km.

<u>Date</u>	<u>Time (GMT)</u>	<u>Phase</u>	<u>Remarks</u>
1221)	18 04 - 27 - 10	iPg } iSg }	Small. $\Delta g = 93$ Km.
1222)	20- 00 - 26 01 - 14	iPg } iSg }	Small. $\Delta b = 426$ Km.
1223)	19 03 - 16 - 24	iP } eS }	Small. Compr. to N \pm . $\Delta = 1245\pm$ Km. = 11 $^{\circ}$.2.
1224)	09 - 38 - 20 - 31	iPg } iSg }	Very small. $\Delta g = 92\pm$ Km.
1225)	20 03 - 37 - 05	i	Very small.
1226)	07 - 01 - 24 \pm - 56 \pm	iPb } iSb }	Very small. $\Delta b = 287\pm$ Km.
1227)	08 - 46 - 44 \pm - 58	iPg } iSg }	Very small. $\Delta g = 121\pm$ Km.
1228)	12 - 15 - 55 \pm 16 - 21 \pm	iPb } iSb }	Very small. $\Delta b = 228\pm$ Km.
1229)	18 - 27 - ff.	i	30 min. teleseismic traces.
1230)	21 02 - 59 - 38 \pm 03 - 00 - 16 \pm	iPb } iSb }	Very small. $\Delta b = 336\pm$ Km.
1231)	18 - 14 - 28 35	iPg } iSg }	Very small. $\Delta g = 58\pm$ Km.
1232)	19 - 00 - 31	i	Very small.
1233)	22 03 - 01 - 07 - 10	iPg } iSg }	Very small. Dilat. to S \pm . $\Delta g = 23$ Km.
1234)	21 - 54 - 10 21	iPg } iSg }	Small. Compr. $\Delta g = 92$ Km.
1235)	22 - 00 - 48 01 - 58 \pm	iPb } iSb }	Small. P cresc. S difficult. $\Delta b = 623$ Km.
1236)	23 01 - 14 - 17 - 54	iPb } iSb }	Very small. Compr. $\Delta b = 327$ Km.
1237)	01 - 51 - 18 \pm 52 - 24 \pm	iPb } iSb }	Very small. $\Delta b = 587$ Km.
1238)	10 - 18 - 16 - 34	iPb } iSb }	Very small. Compr. $\Delta b = 156$ Km.
1239)	16 - 30 - 23 - 41	iPb } iSb }	Very small. Compr. to N. $\Delta b = 156$ Km.
1240)	23 - 49 - 29 - 41	iPg } iSg }	Very small. $\Delta g = 102$ Km.
1241)	24 06 - 44 - 27 - 53	iPb } iSb }	Very small. $\Delta b = 228$ Km.
1242)	25 10 - 44 - 48 \pm 45 - 06	iPb } iSb }	Very small. $\Delta b = 156\pm$ Km.
1243)	12 - 48 - 58 \pm 49 - 29	iPb } iSb }	Small. $\Delta b = 273\pm$ Km.
1244)	13 - 52 - 27 - 56	iPb } iSb }	Very small. $\Delta b = 255$ Km.
1245)	15 - 57 - 47	i	Very small.