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No. 2

June, 1951

**SEISMOGRAPHIC STATION
BULLETIN**

July-December, 1949

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JOHNNY W. JONES

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Seattle



Seattle, University of Washington Campus:

Latitude 47°39'N
Longitude 122°18'W
Elevation 30 meters
Underground: compact glacial till and hardpan

Instruments:

One vertical, two short-period horizontal,
and two long-period horizontal Sprengnether
seismographs.

All times are G.C.T.

C - compression

D - dilatation

! - an exceptionally prominent impulse

During July while the instruments were being set up
and regulated the station operated only intermittently.
Hence, the list of shocks recorded during this month
is quite incomplete.

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	Time	Additional Readings and Remarks
July 02		
1P	20 09 15C	1 0934, 1 0952, 1 1022, 1 1048
1PcP	47	
1PP	12 11	
1PPP	13 42	USCGS: 16N, 148E; 0: 1957 10
eS	18 45	
July 07		
eL	05 03.5	USCGS: 36½N, 36W; 0: 043217
July 23		
eL	09 09.2	
July 23		
1P	10 39 32C	1 4000, 1 4056, e 4406, 1 5240
1pP	40 13	USCGS: 18½S, 169E; 0: 102649
esP	30	h: about 200
1PP	43 32	
ePPP	44 56	
1S	49 46	
1sS	50 40	
1PS	51 24	
1PPS	36	
eSS	56 40	
eL	11 00	
July 23		
eP	15 16 34	
eSKS	27 04	
eS	28	USCGS: 38½N, 26½E; 0: 150330
Aug 06		
eL	01	Paper change obscured records USCGS: 19S, 174½W; 0: 003527
Aug 07		
1P	08 16 51	USCGS: 50½N, 130W; 0: 081520
1S	18 19	
eL	18.5	

	Time	Additional Readings and Remarks
Aug 07		
eP	10 46 09	Aftershock
eS	47 40	USCGS: 50½N, 130W;
eL	47.8	0: 104442
Aug 08		
eP	07 29 10	1 2943
		USCGS: 19½S, 65½E; 0: 070905
Aug 08		
eL	19 47	USCGS: 16S, 75½W; 0: 190718
Aug 11		
eL	15 42	USCGS: 0: 150043
Aug 12		
eL	23 47	USCGS: 14S, 167½E; 0: 231536
Aug 13		
eP	18 37 58	e 3827, e 3836, e 5116, e 5430
ePP	41 40	USCGS: 0, 146E; 0: 182449
eSKS	48 32	
eS	59	
ePS	50 15	
eSS	55 08	
ePKKS	58 35	
eL	19 03	
Aug 14		
eL	00 21	
Aug 17		
1Pg	03 30 44.4D	1 3049.3
1Sg	47.3	Distance 0.2 degree
Aug 17		
eL	20	Record obscured due to paper change
		USCGS: 39N, 40E; 0: 184415
Aug 18		
eL	02 39	

Geol. dir. gift 5/21/59

	Time	Additional Readings and Remarks
Aug 18 eP epP	10 09 09C 10 25	e 1440 BCIS: 29.5N, 138 1/4E; O: 095810; h: 400-450
Aug 18 eP	13 42 31	e 4239, e 4246 USCGS: 8½N, 82½W; O: 133325
Aug 19 1P eS	08 37 46 48 28	USCGS: O: 082516
Aug 20 eL	15 39	
Aug 21 eL	03 59	USCGS: O: 031633
Aug 21 eL	20 53	USCGS: O: 204503
Aug 22 eP 1P	04 03 27C 30D	Off Coast of British Columbia USCGS: 54N, 133W; O: 040112
Aug 22 eL	05 59	B. C. Aftershock?
Aug 22 1P	06 19 05D	e 2226, e 2240 B. C. Aftershock USCGS: O: 061645
Aug 22 eL	07 06	B. C. Aftershock?
Aug 22 1P	07 23 41	1 2348 USCGS: O: 071135 Near Coast of Northern Chile
Aug 22 eL	07 27	B. C. Aftershock?
Aug 22 eL	07 56	B. C. Aftershock?

	Time	Additional Readings and Remarks
Aug 22 eL	08 23.5	B. C. Aftershock?
Aug 22 e	09 14 07	USCGS: 37S, 18W; 0: 085115
Aug 22 e(P) eL	09 17 53 20.9	B. C. Aftershock?
Aug 22 eL	09 29	B. C. Aftershock?
Aug 22 eL	12 10 48	USCGS: 0: 114123 Bonin Islands Region
Aug 22 eL	12 28.2	e 2519 B. C. Aftershock USCGS: 0: 122143
Aug 22 eL	13 29	B. C. Aftershock?
Aug 22 eL	13 45.6	e 4313, e 4507 B. C. Aftershock USCGS: 0: 134024
Aug 22 eP	15 05 38	e 0545, e 0635
Aug 22 eL	15 33	B. C. Aftershock?
Aug 22 eL	17 45.5	B. C. Aftershock?
Aug 22 eL	18 15.8	B. C. Aftershock?
Aug 22 eL	18 22.5	B. C. Aftershock
Aug 22 eL	19 02	B C. Aftershock?
Aug 22 eL	19 51	e 4812 B. C. Aftershock?

	Time	Additional Readings and Remarks
Aug 22 eL	21 46	B. C. Aftershock?
Aug 23 eL	00 43	B. C. Aftershock?
Aug 23 eL	01 23	B. C. Aftershock?
Aug 23 eL	01 05	B. C. Aftershock?
Aug 23 eL	03 24	B. C. Aftershock?
Aug 23 eL	03 04.1	e 0147, e 0310 B. C. Aftershock USCGS: 0: 025929
Aug 23 eL	13 02	B. C. Aftershock?
Aug 23 eL	14 20.0	B. C. Aftershock?
Aug 23 eL	19 42.5	e 4144 B. C. Aftershock USCGS: 0: 193730
Aug 23 eL	19 47.5	USCGS: 53N, 132W; 0: 194335
Aug 23 eP eL	20 26 35 28.9	USCGS: 53N, 132W; 0: 202432
Aug 23 eL	21 38	B. C. Aftershock?
Aug 24 eL	02 42	B. C. Aftershock USCGS: 0: 023732
Aug 24 eL	03 35	B. C. Aftershock?

	Time	Additional Readings and Remarks
Aug 24 1P eL	06 08 38 09.9	1 0915 USCGS: 43½N, 127W; 0: 060714
Aug 24 1P 1pP	06 38 13 40	USCGS: 22S, 176W; 0: 062543 h: 100
Aug 24 eL	09 24.2	B. C. Aftershock?
Aug 24 eL	09 47	USCGS: 9S, 109W; 0: 092202
Aug 24 eL	10 34	B. C. Aftershock?
Aug 24 eL	12 47.9	B. C. Aftershock?
Aug 24 eL	21 57	B. C. Aftershock
Aug 24 eL	22 41.5	B. C. Aftershock USCGS: 0: 223713
Aug 25 1P 1S eL	04 21 30 27 12 29.5	1 2740 USCGS: 52½N, 178W; 0: 041425
Aug 25 1SKS 1S eSS	23 50 33 51 00 59 40	e 000355 Weak surface waves. Slightly deeper than normal USCGS: 7S, 129½E; 0: 232539
Aug 26 eL	05 32	B. C. Aftershock USCGS: 0: 052600
Aug 26 eL	22 45.1	e 4216, e 4453 B. C. Aftershock USCGS: 0: 223940

	Time	Additional Readings and Remarks
Aug 27 eL	14 59	B. C. Aftershock?
Aug 27 eL	21 35	e 3350, e 3407, e 3420, e 3427 USCGS: 0: 213040 BCIS: British Columbia
Aug 27 eL	23 22	B. C. Aftershock?
Aug 28 eL	19 56	USCGS: 54N, 34W; 0: 192854 BCIS: 0: 192846; 52½N, 35W
Aug 29 eL	00 20	
Aug 29 eL	05 07	
Aug 30 eL	08 26	
Aug 30 eS	00 30 36	e 3618
eSS	35 25	
eSKKS	45 28	
eL	53	
Aug 31 1P	13 52 12	1 5226, 1 5240, 1 5306, 1 5417 USCGS: 0: 134709
eL	55 40	
Sept 01 eP	14 11 15	USCGS: 36S, 97W; 0: 135844 South Pacific Ocean
eS	21 41	
eSS	27 23	
eL	36	
Sept 01 eL	18 50	USCGS: 0: 182632; Galapagos Islands Region
Sept 02 eL	01 36.9	e 3615, e 3636, e 3639 B. C. Aftershock?

	Time	Additional Readings and Remarks
Sept 02 e	03 47 40	e 4743 Weak impulses of a local Shock
Sept 02 eL	05 54	B. C. Aftershock?
Sept 03 1P	03 11 30D	1 1136, 1 1226, 1 1234, e 1605 Strong microseisms USCGS: 62N, 148W; 0: 030647 h: 100
Sept 03 eL	07 43.4	e 4308 B.C. Aftershock?
Sept 04 eS eL	15 18 24 52	e 3530 USCGS: 0: 145520 Samoa Islands Region
Sept 05 eL	03 55	Strong microseisms USCGS: 17N, 121E; 0: 031809
Sept 05 eL	06 58.8	e 5641, e 5808 USCGS: 0: 065415 British Columbia
Sept 06 eL	11 25.1	e 2229 B.C. Aftershock?
Sept 07 eL	07 55	Strong microseisms BCIS: 07 ² 700, Galapagos Islands Region
Sept 07 eL	13 39	Strong microseisms
Sept 07 1P 1S	23 42 08.6C 26.8	1 4212.4, 1 4221.0, Distance 1.2 degrees
Sept 09 eL	08 50	BGIS: SW Pacific

	Time	Additional Readings and Remarks
Sept 11 1Pg 1Sg	04 59 48 54	Distance 0.2 degree
Sept 11 e	11 56 40	Aftershock (1)
Sept 11 e	13 05 37	Aftershock (2)
Sept 11 1Sg	22 57 13	e 5719, Aftershock (3)
Sept 11 e	23 34 05	British Columbia?
Sept 12 1S	04 08 32	e 0836, e 0845 Aftershock (4)
Sept 12 e	08 30 06	e 3008 Aftershock (5)
Sept 12 1P eL	08 38 32 41.2	e 4009 USCGS: 0: 083607 British Columbia
Sept 12 eP eL	09 30 16 59	e 3136 Strong microseisms USCGS: 22S, 170E; 0: 091704
Sept 12 e	12 20 25	British Columbia?
Sept 12 eL	14 42.9	e 4019, e 4152 USCGS: 0: 143752 British Columbia
Sept 13 eL	14 24.0	B.C. Aftershock
Sept 13 eL	12 51	
Sept 14 e	01 43 45	B.C. Aftershock

	Time	Additional Readings and Remarks
Sept 14 eL	05 32	Strong microseisms USCGS: 40½N, 126W; 0: 052740
Sept 14 eL	17 28	Strong microseisms
Sept 14 eP ePP eS eL	20 04 22 08 32 16 15 38	e 0925, e 0936 Strong microseisms USCGS: 1N, 126E; 0: 195015 JSA: h: 100
Sept 15 eL	14 52	British Columbia?
Sept 17 e	02 33 13	e 3411, e 3444, e 3503 Strong microseisms British Columbia?
Sept 17 eL	16 06	Strong microseisms USCGS: 6S, 154E; 0: 152211
Sept 17 eL	23 40	Strong microseisms
Sept 19 eL	23 00	USCGS: 0: 214217; 53S, 3W
Sept 20 eP eS eL	12 08 31 19 04 37	e 0847, e 1938, USCGS: 30S, 178W; 0: 115520 JSA: h: 75
Sept 20 e 1S	12 19 47 22 04	e 2003, e 2028, i 2211, i 2223
Sept 21 eP eS eL	13 02 31 08 28 11	e 0259, i 0315, i 0445 Strong microseisms USCGS: 17N, 94½W; 0: 125505 JSA: h: 100

	Time	Additional Readings and Remarks
Sept 21 eL	18 58	Strong microseisms USCGS: 16S, 173W; 0: 181940
Sept 22 eP epP	15 49 09 26	Strong microseisms USCGS: 42N, 142E; 0: 153815
Sept 23 1Sg	05 48 02.4	1 4803.5, 1 4807.6 Distance less than $\frac{1}{2}$ degree Strong microseisms
Sept 24 eP eS ePS eSS eL	04 30 46 41 42 42 28 46 40 55	e 4340, e 5110 Strong microseisms USCGS: 6S, 154E; 0: 041738
Sept 25 eL	15 56	Strong microseisms USCGS: 0: 151500; Aftershock (1)
Sept 26 eL	03 50	USCGS: 0: 030511; Aftershock (2)
Sept 26 eL	08 50	USCGS: 0: 080413; Aftershock (3)
Sept 26 eL	23 18	USCGS: 0: 223200; Aftershock (4)
Sept 27 1P 1SS 1PcP eL	15 35 19D 39 28 37 41	e 3918, 1 3952, 1 4026 USCGS: 60N, 149W; 0: 153043
Sept 30 eP epP eS ePPS eSS	04 11 36 53 22 16 23 23 27 52	e 2552 Strong microseisms USCGS: 23S, 176W; 0: 035852



	Time	Additional Readings and Remarks
Sept 30		
eL	09 33	Strong microseisms USCGS: 11S, 163E; 0: 085006
Sept 30		
eL	16 00	Strong microseisms USCGS: 21S, 170E; 0: 151600
Sept 30		
eL	19 02	Strong microseisms USCGS: 0: 181935; 23S, 176W
Sept 30		
eL	22 30	Strong microseisms USCGS: 0: 220655; 23S, 176W
Oct 02		
e	22 34 11	e 3431, e 3439 Indistinct impulses of a short distance shock
Oct 03		
ePKP	09 34 45	1 3456, e 3752, e 3813
ePP	37 05	BCIS: 59S, 28W; 0: 0915.4
ePKS	38 24	
Oct 04		
e	00 02 19	e 0425 Strong microseisms USCGS: 0: 235152 Alaska
Oct 04		
eL	11 01	e 104727, e 5119, e 5250 Strong microseisms USCGS: 0: 102023; 1S, 21W
Oct 06		
1S	15 19 40.3	Distance less than one degree
Oct 07		
1PKP	12 22 28	1 2305, 1 2417, e 2733,
1PKP ₂	23 29	e 3130, e 3818, e 4900
ePP	27 12	USCGS: 33S, 56½E; 0: 120219
ePPP	31 11	JSA: h: 100
Oct 19		
eP	21 13 17	e 1349, e 1407, e 1426,
1PP	17 13	e 1436, e 1608, e 1750,
ePPP	18 50	e 2244, e 2311, e 2550,
eSKS	23 43	e 2620
eS	55	USCGS: 5½S, 154E; 0: 210011 14

	Time	Additional Readings and Remarks
	ePS 24 52	
	ePPS 25 10	
	eSS 29 45	
	eL 41	
Oct 20		
	eP 12 57 54	e 5814, e 0204, e 0234,
	eSKS 13 08 18	e 1025, e 1616
	eS 30	USCGS: 5½S, 154E; 0: 124454
	ePS 09 30	
	ePPS 57	
	eSS 14 45	
	eL 25	
Oct 21		
	e 12 29 40	e 2943, e 2955 Indistinct impulses of a short distance shock
Oct 21		
	eSKS 21 58 20	USCGS: 5½S, 154E; 0: 213416
	eS 35	
	ePS 59 32	
	ePPS 50	
	eL 22 17	
Oct 23		
	1P 05 25 34	USCGS: 4S, 144E; 0: 051214,
	1pP 26 09	h: 150
	1sP 22	
Oct 24		
	e 02 38 08	e 3823, e 3837 Indistinct impulses of a short distance shock
Oct 26		
	eL 10 01	USCGS: 0: 091310 Solomon Islands Region
Oct 27		
	eL 08 35.1	USCGS: 0: 082415; Gulf of California
Oct 27		
	eL 21 26	

	Time	Additional Readings and Remarks
Oct 31 eP	00 15 05	e 1521, e 1539 Strong Microseisms USCGS: 0: 000244 Samoa Islands Region
Oct 31 eP eS eL	01 42 22 44.5 45.5	e 4241, e 4250, e 4306, e 4327 USCGS: 56N, 135W; 0: 013932
Oct 31 eL	02 38.5	Aftershock (1) Strong microseisms USCGS: 023213; 56N, 135W
Oct 31 eP	18 08 56	e 0903 Strong microseisms USCGS: 5S, 152½E; h: 100 0: 175535
Nov 01 eL	01 58.5	USCGS: British Columbia, 0: 015138
Nov 01 eP	11 57 54	e 5806, e 5835 USCGS: 40½N, 127W; 0: 115550
Nov 01 eP	13 16 39	USCGS: 0: 130425; Outer Mongolia
Nov 01 e(P)	18 04 08	e 0415 Distance less than one degree Strong microseisms
Nov 03 eP epP	01 21 43 22 20	e 2231, e 2242, e 2906, e 2934, e 3035 Strong microseisms USCGS: 48½N, 154E; h: 200 0: 011237
Nov 04 eP eS eL	20 46 33 49 45 51 20	e 4655, e 4721, e 4742 USCGS: 32N, 116½W; 0: 204238
Nov 04 eL	04 44.5	Aftershock (1) USCGS: 0: 043524; 32N, 116½W

	Time	Additional Readings and Remarks
Nov 07		
eP	06 12 31	e 1341, e 1448, e 3106,
eS	23 30	e 3610, e 3730
ePS	24 33	USCGS: 14S, 166½E; 0: 055935
eL	40	JSA: h: 75
Nov 07		
eL	08 25	
Nov 11		
1Pg	11 47 00.4	1 4714.5, e 4724.0
1P*	13.3	Distance 0.8 degree
1Sg	21.0	
Nov 13		
1P	04 51 15	1 5122 Strong microseisms USCGS: 11N, 86W; 0: 044235
Nov 13		
1S	17 43 39.4	Local
Nov 19		
1S	02 27 07.3	1 2708.6 Local
Nov 20		
eP	07 14 33C	1 1440, 1 1451, 1 1507,
1S	18 13	1 1524, 1 1549, 1 1615,
eL	18 40	1 1625, 1 1725, 1 1737, 1 1819 USCGS: 28½N, 112W; 0: 070945
Nov 22		
1P	01 04 40	1 0444, 1 0450, 1 0515,
1pP	05 30	1 0625, 1 0726, 1 0838,
1sP	45	1 0925, 1! 1533, 1! 1700,
1PP	08 35	h: 200
1pPP	09 15	no surface waves
1PPP	10 25	USCGS: 29S, 178W; 0: 005132,
1SKS	15 00	
1S	06	
1pS	16 08	
1sS	37	

	Time	Additional Readings and Remarks
Nov 27 eP	08 54 49	e 5508 Very strong microseisms USCGS: 18S, 173W; 0: 084216
Nov 29 1Pg 1Sg 1S*	13 03 06.2D 11.8 13.5	1 0310.0, 1 0316.0 Distance 0.5 degree
Nov 30 ePg 1Sg 1S*	16 44 17 23.2 24.3	1 4421.6, 1 4432 Aftershock (1)
Dec 03 1P 1(S)	17 15 27 36	1 1530, 1 1538, 1 1540
Dec 03 eP	19 23 55	e 2413, e 2428
Dec 03 eP eS	22 32 14 33 39	e 3221, e 3404
Dec 03 eP	12 13 51	Distance less than one degree Strong microseisms
Dec 13 e	18 03 17	e 0326 Weak impulses of a short distance shock
Dec 13 e	20 11 30	e 1146 Same epicenter?
Dec 13 e	22 53 10	e 5320 Short distance shock
Dec 15 1P	10 56 09.0	1 5613.6, 1 5615.2 Distance less than one degree

Time

Additional Readings and Remarks

Dec 17			
1PKP	07	12 46	1 1615, 1 1710
1PP		13 16	USCGS: 54S, 71W; 0: 065329,
1PPP		15 20	Foreshock
1PKS		46	
1SKS		18 52	
1SKS		19 14	
1PS		21 50	
1PPS		23 00	
1PKKS		26 36	
1SS		27 50	
1SSP		28 35	
1SKKS		31 10	
1SSS		32 28	
1SKKKS		34 10	
Dec 17			
ePP	15	27 30	USCGS: 54S, 71W; 0: 150753
Dec 20			
1P	04	28 21D	e 3837
epP		30 29	
esP		31 14	
eS		38 09	BCIS: 20S, 177½W; h: 100, 0: 041628
Dec 21			
1Pg	13	55 46.5	Strong microseisms
1Sg		52.1	Distance 0.5 degree
1S*		53.8	
Dec 21			
1P	19	44 42D	1 4451, 1 4506, 1 4614,
epP		53	1 5443, 1 5530
1S		54 24	USCGS: 20S, 64W; h: 600 0: 193300
Dec 22			
1PcP	09	40 34	1 3906, 1 3941, 1 4122,
1S		43 27	1 4438, 1 4511, 1 4908
ePcS		44 24	Strong microseisms
1ScS		48 18	USCGS: 16N, 93W; h: 100 0: 093047
Dec 25			
1P	22	47 15	1 4720, 1 4811
eL		59	USCGS: 19½N, 104W; 0: 224045
			19

	Time	Additional Readings and Remarks
Dec 25 1P	23 28 38	e 2849 Strong microseisms USCGS: Foreshock; 0: 231731; 37N, 139E
Dec 25 1P	23 36 03	1 3641, 1 3646, 1 3704, 1 4338, 1 4421 Strong microseisms USCGS: 37N, 139E; 0: 232453
Dec 26 eP	06 36 15	1 3622, 1 3629, 1 3651,
eS	46 38	e 3708, e 3725, e 4835,
1PS	47 36	e 4930, e 5034
ePPS	47 51	Strong microseisms
eSS	52 22	USCGS: 14½S, 180; 0: 062354
eL	58	
Dec 28 ePKS	00 20 10	Strong microseisms
ePPP	58	
eSKS	23 05	USCGS: 0: 235713;
ePKKP	26 57	
ePPS	29 20	60S, 22W
eL	01 06	
Dec 29 eP	03 17 16	1 1723, 1 1748, e 1913,
ePP	21 14	1 2231 Strong microseisms USCGS: 18½N, 121E; 0: 030355
Dec 29 eS	17 06 19	e 0635, e 0706
ePS	07 43	Strong microseisms USCGS: 27S, 176½W; 0: 164256 JSA: h: 200