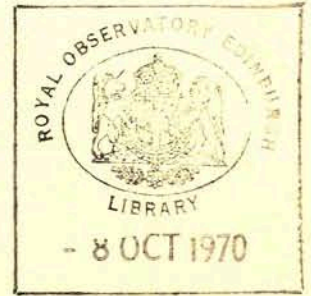


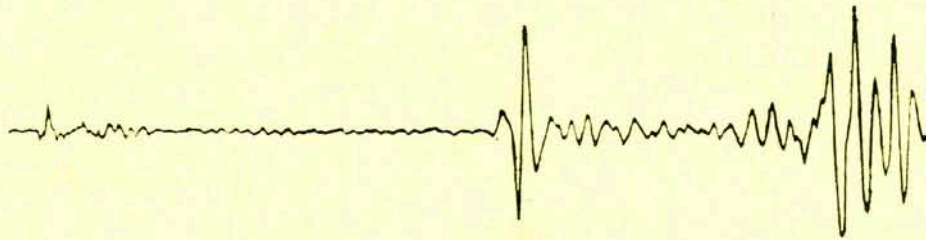
JC



JOHN CARROLL UNIVERSITY
SEISMOLOGICAL OBSERVATORY
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SEISMOLOGICAL BULLETIN



1 January 1966 — 31 December 1966

OBSERVATORY DIRECTOR
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JANUARY 1966					
Date	Phase	Component	GMCT	Motion	Remarks
1	iP	z	11 ^h 30 ^m 42.5 ^s	d	USCGS: 14.8°N, 119.5°E H = 11 ^h 13 ^m 27.2 ^s h = 37 km
1	iP iP iS	z e n	13 24 25.3 13 24 27.8 13 25 03.5	c	
6	iS	n	19 00 15.6		Local
15	eS eSR ₁	N N	12 14 14 12 17 12		USCGS: 59.5°N, 144.6°W H = 11 ^h 59 ^m 58.6 ^s h = 33 km
22	iP	z	07 42 48.3	d	USCGS: 17.4°N, 94.1°W H = 07 ^h 36 ^m 49.3 ^s h = 139 km Mag: 4.9
22	iP iS	z E	14 35 48.3 14 42 34	c	USCGS: 56.0°N, 153.7°W H = 14 ^h 27 ^m 07.9 ^s h = 33 km
23	iP	z	23 01 18.9	d	
25	iP iP	z e	20 21 55.6 22 04 23.3	c	
26	iP	n	23 06 14.2		USCGS: 28.8°N, 139.5°E H = 22 ^h 54 ^m 13 ^s h = 441 km
28	ePS	E	06 11 57		USCGS: 17.1°S, 168.4°E H = 05 ^h 42 ^m 16.4 ^s h = 24 km
28	iP	z	22 49 40.6	d	USCGS: 51.6°N, 157°E H = 22 ^h 38 ^m 12.2 ^s h = 107 km
29	iP	z	14 46 09.9	c	USCGS: 16.6°N, 91.2°W H = 14 ^h 40 ^m 26.5 ^s h = 7 km Mag: 5.3
29	iP	z	15 56 48.5	c	

FEBRUARY 1966

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>	<u>Motion</u>	<u>Remarks</u>
3	iP	z	00 ^h 56 ^m 43.4 ^s	d	USCGS: 21.7°S, 68.4°W H = 00 ^h 47 ^m 19.2 ^s
	iP	z	00 57 13.5	c	
5	iP	z	02 13 22.4	d	USCGS: 39.2°N, 22.0°E H = 02 ^h 01 ^m 48.3 ^s h = 38 km. Mag = 5.8
	eS	N	02 22 56		
	ePS	N	02 23 53		
7	eSKS	e	04 51 11		USCGS: 29.8°N, 69.7°E H = 04 ^h 26 ^m 13.9 ^s h = 33 km Mag = 6.0
	eS	E	04 52 16		
	e	E	04 53 03		
7	eSKKS	E	23 31 37		USCGS: 30.2°N, 69.8°E H = 23 ^h 06 ^m 34.5 ^s h = 10 km Mag: 5.8
	ePS	E	23 34 22		
8	eS	e	17 20 29		
9	i(P)	n	01 01 35.4		USCGS: 14.3°N, 93.0°W H = 00 ^h 55 ^m 19.8 ^s h = 53 km Mag: 5.2
	eS	N	01 07 13		
9	ePR ₁	N	04 59 25		USCGS: 56.7°S, 25.7°N H = 04 ^h 40 ^m 28.4 ^s h = 27 km Mag: 5.9
	eSKS	N	05 05 28		
	eSKKS	N	05 06 06		
	ePPS	N	05 09 12		
13	eSR ₁	E	11 19 45		USCGS: 26.1°N, 103.2°E H = 10 ^h 44 ^m 41.0 ^s h = 33 km Mag: 5.9
	eSR ₂	E	11 24 22		
16	eSKS	E	03 44 19		USCGS: 17.7°S, 167.9°E H = 03 ^h 18 ^m 27.2 ^s h = 31 km Mag: 6.5
	ePS	E	03 48 07		
	eSR ₁	E	03 54 24		
17	ePR ₂	E	12 16 32		USCGS: 32.2°S, 78.9°E H = 11 ^h 48 ^m 00.8 ^s h = 33 km Mag: 6.4
	eSKKS	E	12 19 21		
	eSR ₁	E	12 32 45		

FEBRUARY 1966 (cont'd.)

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>	<u>Motion</u>	<u>Remarks</u>
22	iP ₁	z	05 ^h 21 ^m 29.2 ^s	d	USCGS: 5.4°S, 151.5°E H = 05 ^h 02 ^m 37.2 ^s h = 28 km Mag: 6.2
	iP ₂	z	05 21 32.2	d	
	ePR ₁	E	05 22 55		
	eSR ₁	N	05 39 22		
25	iPRS	n	23 18 06.1		USCGS: 15.1°S, 173.2°N H = 22 ^h 50 ^m 47.1 ^s h = 33 km Mag: 5.5
	e	E	23 26 17		

MARCH 1966

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>	<u>Motion</u>	<u>Remarks</u>
3	iP	z	03 ^h 37 ^m 24.7 ^s	c	USCGS: 48.3°N, 154.3°E H = 03 ^h 25 ^m 28.0 ^s h = km Mag: 5.9
	ipP	z	03 37 36.7	c	
	e	E	03 47 33		
6	iP	e	01 54 36.1		
	ipP	n	01 55 36.3		
6	eSKS	N	02 40 51		USCGS: 31.6°N, 80.5°E H = 02 ^h 15 ^m 56.7 ^s h = 44 km Mag: 6.1
	eSR	E	02 49 15		
7	eSKS	N	21 53 41		USCGS: 37.2°N, 114.8°E H = 21 ^h 29 ^m 17.0 ^s h = 33 km Mag: 5.8
	eS	N	21 54 53		
	ePPS	N	21 56 33		
8	iP	z	20 56 23.4	c	USCGS: 20.0°S, 68.9°W H = 20 ^h 46 ^m 12.0 ^s h = 122 km Mag: 5.9
	ipP	z	20 56 51.6	d	
	eS	N	21 04 37		
	esS	N	21 05 24		
12	eP	N	16 45 58		USCGS: 24.1°N, 122.6°E H = 16 ^h 31 ^m 21.8 ^s h = 63 km Mag: 6.7
	ePR ₁	N	16 50 29		
	eSKS	N	16 56 25		
17	eSKS	E	16 13 29		USCGS: 21.1°S, 179.2°N H = 15 ^h 50 ^m 32.2 ^s h = 626 km Mag: 6.9
	eSKS	E	16 14 27		
	eS	N	16 15 18		
	eSR ₁	N	16 23 11		
18	eS	E	18 17 34		USCGS: 43.7°N, 127.3°W H = 18 ^h 05 ^m 23.5 ^s h = 33 km Mag: 4.6
20	iPR ₁	z	02 01 21.7	d	USCGS: 0.6°N, 30.2°E H = 01 ^h 42 ^m 49.9 ^s h = 36 km Mag: 6.1
	eSKS	E	02 07 45		
	ePS	E	02 10 42		
22	eSKS	N	08 36 05		USCGS: 37.5°N, 115.1°E H = 08 ^h 11 ^m 33.7 ^s h = 11 km Mag: 6.0
	eSR ₁	N	08 43 55		
23	iPR ₁	z	00 23 37.6	c	USCGS: 23.8°N, 122.8°E H = 00 ^h 04 ^m 34.7 ^s h = 51 km Mag: 6.3
	eSKS	N	00 29 47		
	ePS	N	00 33 29		

MARCH 1966 (cont'd.)

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>	<u>Motion</u>	<u>Remarks</u>
23	iP eS	z E	05 ^h 16 ^m 54.3 ^s 05 21 13	d	USCGS: 16.8°N, 85.9°W H = 05 ^h 11 ^m 32.5 ^s h = 33 km Mag: 5.3
23	eSR ₂	N	18 04 57		USCGS: 37.5°N, 115.0°E H = 17 ^h 28 ^m 01.5 ^s h = 33 km Mag: 5.2
26	iPS	z	15 41 12.4	d	USCGS: 37.7°N, 114.9°E H = 18 ^h 14 ^m 23 ^s h = 33 km Mag: 4.9
27	iP eS	z n	19 00 10.8 19 05 24	c	USCGS: 8.9°N, 83.4°W H = 18 ^h 53 ^m 41.3 ^s h = 40 km Mag: 5.6
30	iP eS eSR	z N N	12 46 45.9 12 52 18 12 54 20	c	

APRIL 1966

Date	Phase	Component	GMCT	Motion	Remarks
2	iP eS	z N	01 ^h 58 ^m 31.9 ^s 02 03 22	c	USCGS: 16.5°N, 97.4°W H = 01 ^h 52 ^m 38.3 ^s h = 42 km Mag: 5.6
4	iP	z	19 55 56.7	c	USCGS: 13.8°N, 89.7°W H = 19 ^h 50 ^m 07.6 ^s h = 108 km Mag: 5.5
6	iPKKP eSKKS	e N	03 20 40.6 03 31 34		USCGS: 45.8°S, 96.1°E H = 02 ^h 59 ^m 01.7 ^s h = 33 km Mag: 5.8
8	iP iP ipP eS	z z z E	01 58 19.8 01 58 25.0 01 58 41.7 02 07 47	c c d	USCGS: 51.2°N, 157.7°E H = 01 ^h 46 ^m 44.9 ^s h = 47 km Mag: 5.9
9	iP ipP iS	z z e	02 40 47.3 02 40 57.3 02 46 13.2	d c	USCGS: 9.4°N, 84.2°W H = 02 ^h 34 ^m 23.0 ^s h = 40 km Mag: 5.3
9	iP ipP ePR ₂	z z N	02 48 33.8 02 48 42.7 02 49 46		USCGS: 9.6°N, 84.1°W H = 02 ^h 42 ^m 08.7 ^s h = 30 km Mag: 5.7
9	i e	z N	20 20 23.5 20 27 48	c	USCGS: 56.7°N, 152.0°W H = 20 ^h 08 ^m 39 ^s h = 33 km Mag: 5.5
11	iP i eS	z z N	17 23 28.5 17 24 05.1 17 28 40	d c	USCGS: 18.4°N, 102.3°W H = 17 ^h 17 ^m 33.8 ^s h = 72 km Mag: 5.7
11	iP eS eSR ₂	z E E	23 08 53.5 23 15 34 23 19 27	d	USCGS: 56.6°N, 152.0°W H = 23 ^h 37 ^m 42.1 ^s h = 44 km Mag: 5.7
12	iP eS	z E	23 49 49.3 23 59 43	c	USCGS: 38.1°S, 73.0°W H = 23 ^h 37 ^m 42.1 ^s h = 44 km Mag: 5.7
16	iP eS	z E	01 35 46.5 01 42 37	d	USCGS: 57.0°N, 153.6°W H = 01 ^h 27 ^m 15.3 ^s h = 33 km Mag: 5.7

APRIL 1966 (cont'd.)

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>	<u>Motion</u>	<u>Remarks</u>
20	iP	z	16 ^h 54 ^m 44.2 ^s	c	USCGS: 41.7°N, 48.2°E H = 16 ^h 42 ^m 03.7 ^s h = 19 km Mag: 5.5
	eSKKS	E	17 05 39		
	ePS	E	17 05 45		
22	iP	z	23 35 45.7	d	USCGS: 57.5°N, 152.1°W H = 23 ^h 27 ^m 20.5 ^s h = 22 km Mag: 5.7
	ipP	z	23 35 53.1	d	
	iPR ₁	z	23 37 35.3	d	
	eS ₁	E	23 42 33		
	iSR ₁	e	23 45 31.9		
23	iP [?]	z	00 28 42.1	c	USCGS: 0.9°S, 122.4°E H = 00 ^h 09 ^m 34.4 ^s h = 45 km Mag: 6.0
	ePR ₁	z	00 31 27.1	c	
	iSKP	z	00 23 25.3	d	
30	iP	n	13 07 38.2		USCGS: 18.8°N, 106.7°W H = 13 ^h 01 ^m 19 ^s h = 54 km Mag: 5.2
	eS	E	13 12 37		

MAY 1966

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>	<u>Motion</u>	<u>Remarks</u>
1	iP	z	16 ^h 31 ^m 37.4 ^s	d	USCGS: 8.5°S, 74.3°W H = 16 ^h 22 ^m 56.3 ^s h = 165 km Mag: 5.7
	ipP	z	16 32 11.5	c	
	iS	e	16 38 31.4		
	esS	E	16 39 31		
	eSR ₁	E	16 42 22		
9	iP	z	00 55 02.7	d	USCGS: 34.5°N, 26.5°E H = 00 ^h 42 ^m 55.6 ^s h = 33 km Mag: 5.5
11	iP	z	14 29 28.5	c	USCGS: 48.9°N, 156.2°E H = 14 ^h 17 ^m 34.1 ^s h = 13 km Mag: 5.8
	ipP	z	14 29 38.6		
	eS	E	14 39 09		
15	iP	z	14 56 29.1	c	USCGS: 51.5°N, 178.4°W H = 14 ^h 46 ^m 06.5 ^s h = 31 km Mag: 5.8
	ipP	z	14 56 34.3		
	eS	E	15 04 42		
	esS	E	15 04 58		
18	iP	z	07 38 03.1	d	USCGS: 25.0°N, 109.0°W H = 07 ^h 32 ^m 07.3 ^s h = 32 km Mag: 5.3
	eS	E	07 42 53		
19	ipR ₁	z	06 15 50.5	d	USCGS: 39.8°N, 78.1°E H = 05 ^h 58 ^m 40 ^s h = 33 km Mag: 5.1
	ePR ₂	E	06 18 07		
	eSKKS	E	06 23 21		
20	eSKS	E	09 39 49		USCGS: 13.9°N, 146.1°E H = 09 ^h 14 ^m 49.2 ^s h = 66 km Mag: 6.0
	ePS	E	09 43 12		
	ePPS	E	09 45 45		
22	iP	z	07 49 01.8	d	USCGS: 21.2°N, 108.7°W H = 07 ^h 42 ^m 50 ^s h = 53 km Mag: 5.5
	eS	E	07 54 05		
22	iP	z	09 35 35.8	d	USCGS: 21.1°N, 108.7°W H = 09 ^h 29 ^m 23 ^s h = 48 km Mag: 5.2
	e(S)	E	09 40 10		
23	iP	z	11 57 45.0	d	USCGS: 21.4°N, 108.7°W H = 11 ^h 51 ^m 30 ^s h = 58 km Mag: 5.6
	iP	e	11 57 45.5		
	eS	E	12 02 43		

MAY 1966 (cont'd.)

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>	<u>Motion</u>	<u>Remarks</u>
24	iP	e	20 ^h 26 ^m 00.8 ^s		USCGS: 21.3°N, 108.7°W H = 21 ^h 19 ^m 41 ^s h = 57 km Mag: 4.9
	eS	E	20 30 59		
	iSR ₁	e	20 31 34.3		
25	eP [†]	z	13 40 18		USCGS: 52.9°S, 160.0°E H = 13 ^h 20 ^m 56.2 ^s h = 33 km Mag: 6.6
	ePR ₁	e	13 43 07		
	eSKP	E	13 43 52		
31	iP	z	06 20 22.6	c	USCGS: 37.6°N, 78.0°W H = 06 ^h 19 ^m 02 ^s h = 33 km Mag: 3.1
	iS	n	06 21 12.6		

JUNE 1966

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>			<u>Motion</u>	<u>Remarks</u>
2	iP eS	z E	03 ^h 03	38 ^m 47	36.6 ^s 21	c	USCGS: 51.1°N, 176.0°E H = 03 ^h 27 ^m 53.3 ^s h = 41 km Mag: 6.0
2	iP	e	15	35	42.4		
2	i(s)	n	23	12	42.2		USCGS: 38.5°N, 27.4°E H = 22 ^h 51 ^m 27.2 ^s h = 33 km Mag: 4.5
3	e ePS	e n	14 14	05 16	43.1 21		USCGS: 17.9°S, 178.8°W H = 13 ^h 49 ^m 13.8 ^s h = 643 km Mag: 5.3
4	ip ipP isP eS esS	z z z E E	00 00 00 00 00	00 00 00 10 10	25.2 34.8 39.3 23 38	d d c	USCGS: 46.5°N, 152.5°E H = 23 ^h 48 ^m 17.8 ^s h = 27 km Mag: 5.9
7	iP eS	z E	01 01	09 17	26.2 10	d	USCGS: 15.0°S, 75.8°W H = 00 ^h 59 ^m 46.6 ^s h = 48 km Mag: 5.5
11	eP eS e(SR ₁)	N N N	02 02 02	43 49 51	59 12 35		USCGS: 19.2°N, 108.1°W H = 02 ^h 37 ^m 39 ^s h = 45 km Mag: 5.3
13	eS ePS eSR ₁	N E N	08 08 08	00 02 08	41 32 44		USCGS: 21.2°S, 174.1°E H = 07 ^h 35 ^m 13.4 ^s h = 45 km Mag: 5.9
13	iP' ipP' iPR ₁ ePR ₂ eSKS ePS e(PPS)	z z z N E N E	18 18 18 18 18 18 18	26 27 27 29 33 36 38	49.4 45.4 52.9 32 14 59 40	d c c	USCGS: 12.2°S, 167.1°E H = 18 ^h 08 ^m 38.4 ^s h = 259 km Mag: 6.2
15	iP' iPR ₁ ESKKS eS ePS	z z E E E	01 01 01 01 01	18 19 26 27 29	44.7 40.1 05 43 33	d	USCGS: 10.4°S, 160.8°E H = 00 ^h 59 ^m 45.8 ^s h = 31 km Mag: 6.1

JUNE 1966 (cont'd.)

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>	<u>Motion</u>	<u>Remarks</u>
15	iP ¹	z	01 ^h 51 ^m 40.9 ^s	c	USCGS: 10.2°S, 161.1°E H = 01 ^h 32 ^m 55.5 ^s h = 33 km Mag: 6.2
	iPR ₁	z	01 52 45.6	c	
22	iP	z	07 17 19.7	c	USCGS: 14.7°N, 92.1°W H = 07 ^h 11 ^m 00.8 ^s h = 87 km Mag: 5.1
	eS	N	07 21 32		
22	iP ¹	z	20 47 55.3	d	USCGS: 7.2°S, 124.6°E H = 20 ^h 29 ^m 03.6 ^s h = 507 km Mag: 6.1
	ePR ₁	E	20 50 48		
	iSKP	n	20 51 0.6		
	epPR ₁	N	20 51 39		
	eSKS ₁	E	20 53 30		
	eS	E	20 56 52		
25	iP	z	17 30 28.2	c	USCGS: 13.7°N, 91.2°W H = 17 ^h 24 ^m 38.9 ^s h = 119 km Mag: 5.3
	eSR ₁	E	17 36 52		
27	ePR ₁	N	10 59 51		USCGS: 29.7°N, 80.9°E H = 10 ^h 41 ^m 08.6 ^s h = 37 km Mag: 6.1
	ePR ₂	N	11 02 03		
	eSKS	N	11 06 01		
	ePS	N	11 09 12		
27	ePR ₁	N	11 18 02		USCGS: 29.7°N, 81.0°E H = 10 ^h 59 ^m 18.1 ^s h = 40 km Mag: 6.0
	eSKS	N	11 24 15		
	ePS	N	11 27 20		
28	iP	e	04 32 31.8		USCGS: 35.9°N, 120.5°W H = 04 ^h 26 ^m 12.4 ^s h = 4 km Mag: 5.3
	ePR ₁	E	04 33 25		
	eS	N	04 37 39		
	e(SR ₁)	N	04 38 56		
29	iP	z	19 59 30.6	d	USCGS: 35.8°N, 120.5°W H = 19 ^h 53 ^m 24.1 ^s h = 5 km Mag: 4.9
	iS	e	20 05 01.7		
30	iP	z	22 20 43.4	c	USCGS: 37.3°N, 116.3°W H = 22 ^h 15 ^m 00.0 ^s
	eS	N	22 25 44		

JULY 1966

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>	<u>Motion</u>	<u>Remarks</u>
1	ePR ₁	E	06 ^h 09 ^m 27 ^s		USCGS: 24.8°N, 122.4°E
	ePS ₁	E	06 19 03		H = 05 ^h 50 ^m 38.8 ^s
	epPS	N	06 19 32		h = 109 km
	eSR ₁	E	06 25 27		Mag: 6.2
1	iP	z	20 23 26.3	c	USCGS: 13.7°N, 88.4°W
					H = 20 ^h 17 ^m 49.3 ^s
					h = 201 km
					Mag: 5.3
4	iP	z	12 23 29.6	c	USCGS: 37.5°N, 24.8°W
	eS	N	12 39 58		H = 12 ^h 15 ^m 28.1 ^s
					h = 33 km
					Mag: 5.5
4	iP	z	18 44 10.1	c	USCGS: 51.7°N, 179.9°E
	eS	N	18 52 39		H = 18 ^h 33 ^m 35.7 ^s
					h = 13 km
					Mag: 6.2
5	eS	N	02 41 02		USCGS: 52.2°N, 178.4°W
					H = 02 ^h 21 ^m 43.8 ^s
					h = 66 km
					Mag: 4.9
9	e	N	23 03 02		
	e	N	23 10 01		
10	i	z	16 25 23.7	c	
12	iP	z	19 05 08.2	d	USCGS: 44.6°N, 37.4°E
	eS	N	19 14 59		H = 18 ^h 53 ^m 08.5 ^s
					h = 26 km
					Mag: 5.9
13	iP	z	08 26 59.3	d	USCGS: 12.6°N, 87.7°W
	ipP	z	08 27 15.3	c	H = 08 ^h 20 ^m 59.4 ^s
	isP	n	08 27 30.8		h = 61 km
	iPR ₂	z	08 28 17.0	c	Mag: 5.3
	iS ₂	z	08 31 50	c	
19	eP	e	01 51 55		USCGS: 56.2°N, 164.9°E
	eP	z	01 52 00	d	H = 01 ^h 40 ^m 53.9 ^s
	eS	E	02 00 43		h = 18 km
					Mag: 5.4
19	iP	z	19 30 35.5	d	USCGS: 51.7°N, 173.3°W
	eS	E	19 38 46		H = 19 ^h 20 ^m 33.4 ^s
					h = 47 km
					Mag: 5.5

JULY 1966 (cont'd.)

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>	<u>Motion</u>	<u>Remarks</u>
21	eS	N	05 ^h 48 ^m 23 ^s		USCGS: 3.9°S, 104.3°W H = 05 ^h 32 ^m 18.2 ^s h = 33 km Mag: 5.1
22	iP eS	z E	10 27 27.3 10 35 38	c	USCGS: 51.7°N, 173.5°W H = 10 ^h 17 ^m 22.5 ^s h = 56 km Mag: 5.6
23	iP ipP ePS	z z E	14 41 54.7 14 42 11.4 14 51 43	d c	USCGS: 51.7°N, 173.5°W H = 14 ^h 31 ^m 51.2 ^s h = 55 km Mag: 5.3
27	iP ipP eS	z z N	04 59 44.1 04 59 54.3 05 08 28	c d	USCGS: 24.2°S, 70.3°W H = 04 ^h 48 ^m 59.4 ^s h = 35 km Mag: 6.0
29	iP ₄ iS	z n	04 38 20.0 04 39 56.8	c	USCGS: 36.6°N, 74.1°W H = 04 ^h 36 ^m 24.6 ^s h = 1 km Mag: 4.7

AUGUST 1966

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>	<u>Motion</u>	<u>Remarks</u>
1	iP i iPR ₁ eSKS	z n z E	21 ^h 17 ^m 03.4 ^s 21 20 14.3 21 21 25.2 21 27 41	c c	USCGS: 30.1°N , 68.6°E H = 21 02 ^m 59.5 ^s h = 33 km Mag: 6.0
7	iP eS	z N	02 23 05.0 02 31 21	d	USCGS: 50.6°N , 171.2°W H = 02 13 ^m 04.7 ^s h = 33 km Mag: 6.2
7	iP eS	z N	14 19 45.8 14 26 10	d	USCGS: 59.6°N , 144.6°W H = 14 11 ^m 54.9 ^s h = 33 km Mag: 4.8
7	iP	e	17 42 25.1		USCGS: 31.7°N , 114.5°W H = 17 36 ^m 27.3 ^s h = 33 km Mag: 6.6
8	eP ipP eS	z z E	08 09 09.1 08 09 25.6 08 14 27	d d	USCGS: 19.3°N , 108.2°W H = 08 02 ^m 45.8 ^s h = 33 km Mag: 5.2
9	iP eSR ₁	e E	11 19 09.7 11 26 14		USCGS: 9.3°N , 83.8°W H = 11 12 ^m 39.1 ^s h = 35 km Mag: 4.7
15	iP eS	e E	13 44 25.5 13 50 58		USCGS: 60.3°N , 146.0°W H = 13 36 ^m 24.7 ^s h = 15 km Mag: 5.3
16	iP eS	z N	18 08 03.5 18 12 40	d	USCGS: 37.4°N , 114.2°W H = 18 02 ^m 36.6 ^s h = 33 km Mag: 5.6
17	eP	N	23 13 35		USCGS: 37.4°N , 114.1°W H = 23 07 ^m 58.9 ^s h = 33 km Mag: 4.9
18	iP eSR ₁	e N	09 21 00.0 09 26 59		USCGS: 37.3°N , 114.2°W H = 09 15 ^m 37.5 ^s h = 33 km Mag: 4.6

AUGUST 1966 (cont'd.)

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>	<u>Motion</u>	<u>Remarks</u>
18	iP	z	10 39 05.1	c	USCGS: $14^{\text{h}} 14.6^{\circ}\text{N}$, 91.7°W $H = 10^{\text{h}} 33^{\text{m}} 17.7^{\text{s}}$ $h = 85 \text{ km}$ Mag: 5.6
	iP	z	10 39 06.2	c	
	ipP	z	10 39 22.0	d	
	eS	N	10 44 07		
	esS	E	10 44 45		
18	iP	z	14 53 12.2	d	USCGS: 0.1°S , 125.0°E $H = 14^{\text{h}} 33^{\text{m}} 58.3^{\text{s}}$ $h = 33 \text{ km}$ Mag: 6.1
	eSKS	E	15 00 33		
18	iP	z	14 56 35.1	d	USCGS: 0.0°N , 124.9°E $H = 14^{\text{h}} 37^{\text{m}} 53.0^{\text{s}}$ $h = 33 \text{ km}$ Mag: 6.2
19	eSR ₁	E	03 27 16		USCGS: 59.5°N , 144.8°W $H = 03^{\text{h}} 10^{\text{m}} 01.4^{\text{s}}$ $h = 14 \text{ km}$ Mag: 4.7
19	eP	E	12 34 49		USCGS: 39.2°N , 41.6°E $H = 12^{\text{h}} 22^{\text{m}} 10.7^{\text{s}}$ $h = 33 \text{ km}$ Mag: 6.7
	ePR ₁	N	12 38 03		
	eS	E	12 45 10		
	ePS	E	12 46 11		
	eSR ₁	N	12 51 11		
20	iP	z	12 11 46.1	d	USCGS: 39.4°N , 40.9°E $H = 11^{\text{h}} 59^{\text{m}} 08^{\text{s}}$ $h = 12 \text{ km}$ Mag: 5.3
	iPR	z	12 14 35.4	d	
	eS	N	12 22 07		
	eSKKS	E	12 22 22		
22	ePR ₁	E	18 02 03		USCGS: 22.4°S , 170.6°E $H = 17^{\text{h}} 42^{\text{m}} 09.9^{\text{s}}$ $h = 36 \text{ km}$ Mag: 6.7
	eSKS	E	18 07 47		
	ePS	E	18 11 58		
	SR ₁	E	18 18 43		
24	iP	z	07 27 30.2	d	USCGS: 19.9°S , 69.1°W $H = 07^{\text{h}} 17^{\text{m}} 17.6^{\text{s}}$ $h = 100 \text{ km}$ Mag: 5.5
	iP	z	07 27 31.0	c	
	ipP	z	07 27 56.0	c	
	eS	E	07 35 46		
	isS	e	07 36 29.6		
26	ePR ₁	E	09 27 00		USCGS: 22.1°S , 170.1°E $H = 09^{\text{h}} 06^{\text{m}} 47.5^{\text{s}}$ $h = 12 \text{ km}$ Mag: 5.0
	eSKS	E	09 32 04		
	ePS	E	09 36 41		

AUGUST 1966 (cont'd.)

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>	<u>Motion</u>	<u>Remarks</u>
29	iP	e	19 ^h 38 ^m 32.7 ^s		USCGS: 6.8°N, 82.2°W H = 19 ^h 31 ^m 24.6 ^s h = 33 km Mag: 5.0
30	iP eSR ₂	z E	20 28 55.1 20 39 00	d	USCGS: 61.3°N, 147.5°W H = 20 ^h 20 ^m 53.9 ^s h = 35 km Mag: 5.8
30	iP	z	23 43 38.3	d	USCGS: 18.7°N, 107.0°W H = 23 ^h 37 ^m 19.5 ^s h = 53 km Mag: 5.0

SEPTEMBER 1966

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>			<u>Motion</u>	<u>Remarks</u>
2	i(P) eS	e E	08 ^h 08	08 ^m 15	25.5 ^s 22		USCGS: 4.5°S, 106.1°W H = 07 ^h 59 ^m 05.2 ^s h = 33 km Mag: 5.1
8	iP ¹ ePR ₁ eSKP ePS ePPS	z N E N N	21 21 21 21 21	34 36 38 46 48	50.9 50 08 58 34	c	USCGS: 2.4°N, 128.3°E H = 21 ^h 15 ^m 50.5 ^s h = 71 km Mag: 6.8
11	iP eS	z E	17 17	44 50	47.4 12	c	USCGS: 6.8°N, 72.9°W H = 17 ^h 38 ^m 03.4 ^s h = 158 km Mag: 5.8
12	iP ¹ iPR ₁ eSKS eSKKS ePS	z z E E E	11 11 11 11 11	48 49 55 56 59	23.4 39.4 15 36 34	c d	USCGS: 23.0°S, 170.6°E H = 11 ^h 29 ^m 35.8 ^s h = 14 km Mag: 5.8
12	iP eS eSR ₁	e E N	16 16 16	47 52 53	07.7 09 41		USCGS: 39.4°N, 120.1°W H = 16 ^h 41 ^m 02.1 ^s h = 11 km Mag: 5.7
14	iPR ₁ eSKS ePS ePPS eSR ₁	z N N N E	23 23 23 23 23	37 43 47 53 53	49.7 54 12 18 27	c	USCGS: 60.2°S, 27.2°W H = 23 ^h 18 ^m 40.8 ^s h = 22 km Mag: 6.3
22	iP eS	z E	19 19	03 07	03.1 41	c	USCGS: 37.4°N, 114.2°W H = 18 ^h 57 ^m 36.5 ^s h = 33 km Mag: 5.3
25	iP iPR ₂ eS ²	z z E	06 06 06	08 09 13	15.2 09.9 12	c c	USCGS: 18.3°N, 100.8°W H = 06 ^h 02 ^m 28.4 ^s h = 79 km Mag: 5.5

OCTOBER 1966

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>	<u>Motion</u>	<u>Remarks</u>
3	iS iSR ₁	e	02 ^h 33 ^m 41.3 ^s 02 34 17.7		USCGS: 37.4°N, 104.1°W H = 02 ^h 26 ^m 01.9 ^s h = 10 km Mag: 4.5
9	iP eS	z N	08 16 16.8 08 21 20	c	USCGS: 31.3°N, 114.3°W H = 08 ^h 10 ^m 28.0 ^s h = 33 km Mag: 5.0
13	iP iP	z e	02 23 42.6 02 23 47.8	c	USCGS: 59.5°N, 145.2°W H = 02 ^h 15 ^m 45.2 ^s h = 10 km Mag: 5.0
13	eS	N	19 04 08		
17	ePS eSR ₁	N E	10 44 39 10 51 18		USCGS: 11.0°S, 166.7°E H = 10 ^h 15 ^m 40.6 ^s h = 55 km Mag: 5.5
17	iP eS ePS	z E z	21 51 02.7 21 58 17 21 58 45	c	USCGS: 10.7°S, 78.7°W H = 21 ^h 41 ^m 56.3 ^s h = 38 km Mag: 7.5
19	iP ipP eS	z z N	08 13 07.3 08 13 25.4 08 22 38	c d	USCGS: 1.6°S, 15.5°W H = 08 ^h 01 ^m 33.8 ^s h = 33 km Mag: 6-3/4
21	iS	n	10 44 37.1		USCGS: 14.2°N, 91.2°W H = 10 ^h 33 ^m 23.7 ^s h = 31 km Mag: 4.6
27	iP iP iP	z n e	No time] large No time] ampl. No time	c s w	USCGS: 73.4°N, 54.8°E Novaya Zemlya H = 05 ^h 57 ^m 58.0 ^s , h = 0 km Mag: 6.3
29	iP eS	z E	02 51 03.4 03 00 32	d	USCGS: 39.2°N, 21.2°E H = 02 ^h 39 ^m 29.4 ^s h = 20 km Mag: 5.7

NOVEMBER 1966

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>	<u>Motion</u>	<u>Remarks</u>
3	iP	z	16 ^h 30 ^m 00.2 ^s	c	USCGS: 19.2°N, 67.9°W H = 16 ^h 24 ^m 31 ^s h = 22 km Mag: 5.6
	ipP	z	16 30 07.9	d	
	eS	E	16 34 19		
	esS	N	16 34 28		
5	eSKS	E	13 09 57		USCGS: 15.3°S, 175.2°W H = 12 ^h 45 ^m 13.9 ^s h = 38 km Mag: 5.3
	eSKKS	E	13 10 17		
	ePS	E	13 12 27		
	ePPS	E	13 12 45		
10	iP	z	03 13 56.5	d	USCGS: 31.9°S, 68.4°W H = 03 ^h 02 ^m 32.5 ^s h = 113 km Mag: 6.0
	ipP	z	03 14 28.5	d	
	isP	z	03 15 40.0		
	isP	N	03 24 08		
11	iP	z	15 40 48.3		USCGS: 52.3°N, 169.1°W H = 15 ^h 31 ^m 04.2 ^s h = 38 km Mag: 5.4
	e	N	15 48 05		
12	eSKS	E	19 10 32		USCGS: 15.6°S, 167.3°E H = 18 ^h 45 ^m 01.2 ^s h = 40 km Mag: 5.2
	eSKKS	E	19 12 02		
	ePS	E	19 14 28		
	eSR ₁	E	19 20 47		
13	iP	z	02 57 51.9	c	USCGS: 17.1°N, 61.9°W H = 02 ^h 51 ^m 50.6 ^s h = 65 km Mag: 5.5
	iS	n	03 02 43.5		
	eSR ₁	N	03 04 17		
18	iP	z	09 24 22.0	d	USCGS: 36.3°S, 100.7°W H = 09 ^h 12 ^m 09.9 ^s h = 33 km Mag: 5.1
	eS	E	09 34 19		
22	iP	z	06 41 21.2	c	USCGS: 48.2°N, 146.7°E H = 06 ^h 29 ^m 53.5 ^s h = 453 km Mag: 5.6
	ipP	z	06 43 01.5	d	
	eS	N	06 50 51		
	esS	N	06 53 46		
22	iP	z	09 03 06.7	c	USCGS: 52.1°N, 172.7°E H = 08 ^h 52 ^m 18.2 ^s h = 55 km Mag: 4.9
	eS	E	09 11 57		
22	iP	e	12 19 41.7		USCGS: 19.1°N, 67.9°W H = 12 ^h 14 ^m 12.4 ^s h = 62 km Mag: 4.4
	ePR ₁	N	12 20 03		
	eS	E	12 24 04		

NOVEMBER 1966 (cont'd.)

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>	<u>Motion</u>	<u>Remarks</u>
27	iP	z	04 ^h 18 ^m 44.8 ^s	d	USCGS: 60.1°N, 146.2°W H = 04 ^h 10 ^m 43 ^s h = 28 km Mag: 4.6
	iPR	n	04 20 06.0		
	e(S)	E	04 25 33		
27	iP	z	20 21 47.9	c	USCGS: 78.5°N, 6.4°E H = 20 ^h 13 ^m 01.5 ^s h = 33 km Mag: 5.6
	ipP	z	20 21 55.9	c	
	eS	N	20 29 08		
	iPS	z	20 29 36.4	d	
28	iP	z	07 39 42.1	d	USCGS: 6.6°N, 82.7°W H = 07 ^h 32 ^m 53.4 ^s h = 33 km Mag: 5.5
	eS	E	07 45 15		

DECEMBER 1966

<u>Date</u>	<u>Phase</u>	<u>Component</u>	<u>GMCT</u>			<u>Motion</u>	<u>Remarks</u>
10	iP eS	z N	13 ^h 13	12 ^m 17	23 2 ^s 12	c	USCGS: 14.3°N, 92.0°W H = 13 ^h 06 ^m 32.0 ^s h = 60 km Mag: 5.6
14	iP' eSKS eSR ₁	z E E	21 21 21	26 33 45	48.7 46 32	d	USCGS: 4.9°S, 144.1°E H = 21 ^h 07 ^m 53.1 ^s h = 80 km Mag: 5.7
20	iP ipP eS esS	z z N E	12 12 12 12	37 39 45 48	05.6 05.1 25 58	d d	USCGS: 26.1°S, 63.2°W H = 12 ^h 26 ^m 54.6 ^s h = 586 km Mag: 5.7
20	eP e(S)	E E	15 15	35 40	44 55		USCGS: 37°18'07"N, 116°24'30.0"W H = 15 ^h 30 ^m 00.1 ^s h = Elevation 740.7 meters
23	iP' ipP ₁ iSKS eSKKS eSR ₁	z z N N N	16 16 16 16 16	09 09 16 17 27	15.9 36.5 20 54 47	d c	USCGS: 7.2°S, 148.3°E H = 15 ^h 50 ^m 22.7 ^s h = 63 km Mag: 6.1
28	iP iP ipP iS	z z z n	08 08 08 08	28 29 29 37	58.8 02.6 04.8 48	c d d	USCGS: 25.5°S, 70.7°W H = 08 ^h 18 ^m 06.1 ^s h = 32 km Mag: 6.8
31	ePR ₁ eSKS ePS	E E E	18 18 18	43 48 52	03 50 40		USCGS: 11.9°S, 166.4°E H = 18 ^h 23 ^m 06.6 ^s h = 56 km Mag: 7.5
31	ePR ₁ ePS	z N	22 22	33 44	53 44	d	USCGS: 12.3°S, 165.6°E H = 22 ^h 15 ^m 14.0 ^s h = 33 km Mag: 7.3