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International Seismological Centre

MATSUSHIRO SEISMOLOGICAL OBSERVATORY, JAPAN.

Seismological Bulletin

for January 1 to February 29, 1960

Date	Phase	Comp.	Time(GMT)	Date	Phase	Comp.	Time(GMT)
			h m s				h m s
1.	P e P:E	NEZ N	04 15 34 16 49	- 1. ✓	iP eS e L L	NEZ N E N E	23 18 04.0 22 38 45 25 00 04
	49 N., 155½ E. Kurile Is. H=04 11 40 USCGS				iP:N,E,dilatation Mag. 5¼ - 5½ (Matsushiro) 56 N., 162½ E. Near east coast of Kamchatka. H=23 12 31 USCGS		
1.	P i e i L e	Z NEZ E N N N	04 19 57 20 01.5 21 38 45 22 23 27 10	1.	iP S	NEZ NEZ	23 43 52.8 44 03.
	27½ N., 142 E. Bonin Is. H=04 17 32 USCGS				iP:N,W,dilatation		
1.	P i	Z NE	06 02 01 03	2.	P Z, eP i i eS i	NE E NE N E	00 16 34 41.6 42 47 23 39
	18½ N., 147 E. Mariana Is. H=05 57 26 USCGS						
1.	iP S	NZ, P NE	09 06 15.6 29.6	2.	iP iP:S,W,	NZ compression	01 49 06.0
	iP:S,dilatation						
1.	iP e	Z, P NE	15 12 05.9 43	2.	P i i eS L L	Z Z NE N E N	01 37 25 17.6 18.3 02 01 16 03 10 25
	iP: compression				54 N., 157½ E. Kamchatka. H=01 52 18 USCGS		
1.	P i S	Z, eP N N E	17 23 13 16.6 40.6	- 2. ✓	ePKP i i i i	Z Z NE NE Z	05 41 15.8 20.3 20.7 42 00 05.6
					Mag. 6½ (Pasadena) 15½ S., 68 W. Bolivia. h:150 km ca. H=03 21 52 USCGS		
1.	P i S	NZ NE E	18 15 25.1 26.4 43.8	- 2. ✓	P i eS eSS L L	Z NEZ N E E N	05 16 03 17 18.8 23 04 27 28 30 14 51 36
					Mag. 5 3/4 (Matsushiro) 2½ N., 96 E. Off coast of Sumatra. H=05 03 54 USCGS		
1.	P S e	NZ, eP NE E	18 59 53 19 00 11.8 15	- 1 "			

Date	Phase	Comp.	Time(GMT)
			h m s
2. ✓	eP	NZ	05 29 44
	i	Z	45.2
	S	Z	59.3
2. ✓	iP	NEZ	07 05 08.3
	i	E	15
	eS	N	09 20
	L	NE	11 25
	iP:S,W,compression Mag. 5 1/2 - 5 3/4 (Matsushiro) 56 1/2 N., 163 1/2 E. Near east coast of Kamchatka. H=06 59 36 USCGRS		
2.	iP	NZ	07 08 34
	i	Z	41.8
2.	eP	Z	11 21 40
	i	Z	55.3
	e	E	27 34
	e	N	37
2. ✓	PKP Z, ePKP	E	12 41 36
	i	Z	42
	SKKS	N	52 00
	SKSP?	E	55 18
	e	N	57 41
	PPS	N	59 25
	SS	E	13 04 38
	SS	N	05 06
	eSSS	N	09 52
	eSSS	E	58
	e	N	18 47
	e	E	22 49
	eG	N	25 09
	eG	E	18
	u	N	29 32
	Lr	E	31 30
	Lr	N	36
	Mag. 6 1/4 - 6 1/2 (Matsushiro) South Atlantic Ocean, west of Bouvet Is. H=12 21 51 USCGRS		
2.	P	Z	16 13 09
	e	N	21 26
	e	E	36
	eL	N	24 16
2.	P	NEZ	16 30 19
	e	N	54
2. 2. 2.	iP Z, P NE		21 30 59.6
	eS	N	37 58
	e	E	42 20
	L	N	44 07
	iP:compression		
	(cont.)		

Date	Phase	Comp.	Time(GMT)
			h m s
continued			
	5 S., 152 1/2 E. New Britain. H=21 22 51 USCGRS		
2.	P	Z	23 00 02
	e	E	07 55
	e	N	09 14
3.	iP Z, P NE		00 32 51.0
	i	E	54.8
	S	NE	33 12
	iP:dilatation		
3.	P	Z	01 14 05.7
	i	N	05.9
	S	EZ	15 00.3
3.	P	Z	03 31 10
	i	NE	51
3.	iP	NZ	04 01 24.1
	i	E	24.6
	S	N	02 07
	iP:N,compression		
3.	P Z, eP E		05 09 00
3.	iP Z, P NE		11 25 05.3
	i	NE	15
	iP:dilatation		
3. ✓	P Z, eP E		11 31 46
	i	Z	53
	L	N	44 46
	L	E	48
	44 N., 84 1/2 E. Sinkiang Province, China. H=11 24 00 USCGRS		
3.	iP	Z	11 35 49.0
	i	N	49.5
	i	EZ	58.9
	iP:compression		
3.	iP EZ, P N		11 45 55.1
	S	N	46 37.3
	i	Z	38.3
	iP:E,dilatation		
3.	iP Z, P NE		14 01 14.3
	i	N	23.7
	iP:dilatation		
3.	iP	NEZ	21 00 02.8
	S	N	18.3
	iP:S		
3. ✓	iP	NEZ	21 22 50.5
	(cont.)		

Date	Phase	Comp.	Time(GMT)
continued			h m s
continued			
	45 N., 148 E. Kurile Is. h:150 km ca. H=21 20 13 USCGRS		
3.	iP	NEZ	23 24 53.7
	eS	E	26 02
	L	E	57
	L	N	43
	iP:S,W,compression		
4.	P	Z	04 01 56
	i	Z	05 05
	26 N., 90 E. India-Pakistan border. H=03 57 03 USCGRS		
4. ✓	e	N	06 36 40
	i	N	40 17
	e	N	46 07
	e	E	52 57
	e	N	39
	i	N	53 38
	L	E	07 04 31
	L	N	47
4.	iP	NZ	07 52 10.3
	i	E	10.5
	i	Z	17.8
	IS	NE	18.3
	iP:N,compression		
4.	iP	Z	10 55 26.1
	i	N	26.5
	iP:dilatation		
4.	P	Z	10 50 15
	e	N	52 13
	e	E	53 50
4. ✓	e	E	13 33 48
	e	N	34 50
	eL	E	35 03
	eL	N	32
4.	eP	Z	13 39 40
	i	E	40 00
	18 N., 120 1/2 E. Luzon, Philippine Is. H=13 34 20 USCGRS		
4. ✓	PKP 1	Z	15 25 01
	PKP 2	Z	12.8
	eL	E	16 10 20 ca.
	eL	N	12 55 ca.
	(cont.)		

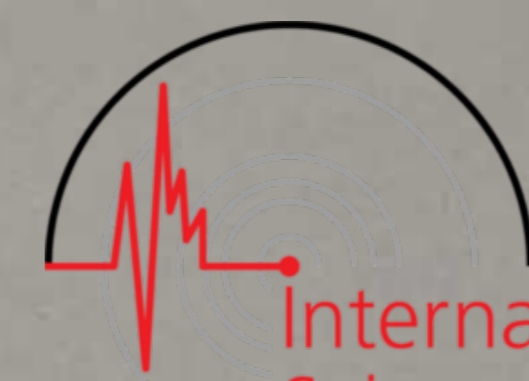
Date	Phase	Comp.	Time(GMT)
continued			h m s
continued			
	Mag. 5 1/2 - 5 3/4 (Matsushiro) 5 1/2 S., 77 1/2 W. Northern Peru. H=15 05 39 USCGRS		
4.	iP LZ,		22 22 33.5
	i	E	36.5
	iP:E,dilatation		
5.	iP	NEZ	02 32 40.0
	IS	NE	55.1
	iP:S,dilatation		
5.	iPKP 1	Z	05 33 41.8
	i	Z	52.3
	eL	E	06 25 20 ca.
	eL	N	26 20 ca.
	iPKP:compression		
	Mag. 5 3/4 - 6 (Matsushiro) 19 S., 69 1/2 W. Northern Chile. H=05 13 43 USCGRS		
5.	eL	E	10 03 07
	eL	N	56
	15 S., 175 W. Samoa Is. region. H=09 52 07 USCGRS		
5.	iP Z,		10 29 13.5
	S	NE	30 57
	iP:dilatation		
6.	P Z, eP E		00 42 35
	e	N	43 46
6.	P	Z	01 23 38
	i	E	39.2
	S?	E	30 00.2
6.	iP Z, P NE		02 02 10.7
	e	E	04 10
	iP:compression		
6.	e	N	08 01 20 ca.
	Santa Cruz Is. H=07 57 36 USCGRS		
6.	iP EZ, P N		06 52 41.3
	i	E	39 02.5
	i	E	40.1
	iP:W,compression		
6.	e	NE	15 35 20
	10 1/2 S., 167 E. Santa Cruz Is. H=13 11 00 USCGRS		
6.	iP	NE	20 24 24.0
	i	E	34.7
	i	Z	51.7
	i	N	52.3
	(cont.)		

Date	Phase	Comp.	Time(GMT)		
continued			h	m	s
	e	N	20	37	40
	iP:S,dilatation 6 1/2 S., 133 E. Banda Sea. H=20 16 29 USCGS				
6.	P EZ, eP N i	E	23	50	24 33.5
7.	iP S	NEZ NE	01	38	23.5 39 20.9
	iP:S,E,dilatation				
7.	iP EZ, P N S	NE	05	12	52.8 13 14
	iP:E				
7.	e eL eL	N N E	08	10	55 14 50 15 32
7.	P i i S SS L L	Z Z Z N NE N E	08	24	16 25.5 54.6 31 27 35 39 37 26 37
	Mag. 6 1/4 - 6 1/2 (Matsushiro) 6 1/2 N., 94 E. Nicobar Is. H=08 15 21 USCGS				
7.	e	N	11	40	43
7.	P Z, eP N i i S? L	N E E E	12	33	47 54.2 54.5 34 30.7 44.7
7.	ePKP 1 e e e ePPP SKSP SKSP e SS SS SSS eL eL	Z Z N E N E N N N E E N	13	48	31 48 52 46 48 56 04 14 02 28 59 08 25 12 27 36 18 06 38 04 39 48
	Mag. 6 1/4 - 6 1/2 (Matsushiro) Sandwich Is. H=13 28 16 USCGS				
7.	eP i	Z Z	17	31	48 50.5
	(cont.)				

Date	Phase	Comp.	Time(GMT)		
continued			h	m	s
	e	N	17	40	18
	e	N	44	04	
	eL	N	46	46	
	eL	E	47	07	
7.	e eL	NE N	23	13	20 ca. 14 52 ca.
7.	P i S i SS L L	Z E NE E NE E N	23	26	16 26.0 33 23 47 37 05 39 54 40 14
	Mag. 6 1/2 (Matsushiro) 6 1/2 N., 94 1/2 E. Nicobar Is. H=23 17 18 USCGS				
8.	iP i i	NEZ E N	02	10	32.3 48 12 10.8
	iP:N,E,dilatation 40.7 N., 143.1 E. Near northeast coast of Honshu, Japan. h:50 km ca. J.M.A.				
8.	iP i	Z NE	02	15	34.6 35.3
	iP:compression				
8.	eP eS eL eL	Z N N E	07 08	55 04	25 51 13 09 25
8.	iP Z, P E i S	N NE	11	18	59.0 59.8 19 18.3
8.	e eL eL	N E N	12	41	25 54 47 55 32
	Mag. 5 3/4 (Matsushiro) 55 S., 27 1/2 W. Sandwich Is. H=11 29 18 USCGS				
8.	iP NZ, P E iP:S		13	41	10.8
8.	ePKP 1 ePKP 2 e e e eSS e	Z Z N E E N N	15	06	00 55.3 17 42 28 20 30 27 31 14 35 49
	(cont.)				

Date	Phase	Comp.	Time(GMT)		
continued			h	m	s
	eSSS	N	15	36	38
	L	E	55	47	
	L	N	57	35	
	L	E	16	10	29
	L	N	11	50	
	Mag. 6 - 6 1/2 (Matsushiro) 55 1/2 S., 27 1/2 W. Sandwich Is. H=14 45 58 USCGS				
8.	iP Z, P NE i iP:compression	N	17	54	00 02.3
8.	iP NZ, P E iS iP:compression	NEZ	20	36	44.0 37 04.3
8.	P i e	Z N N	22	05	12 14 12 27
9.	eP	NZ	23	39	19
9.	P Z, eP NE e eL	N N	03 04	59 30	08 41 42 05
9.	iP PP i pPP S sS ScS sSS SSS iP:S,E,compression Mag. 6.3 (Matsushiro) 38 N., 69 E. Hindu Kush. h:150 km ca. H=07 25 50 USCGS	NEZ Z NE NE E N E	07	33	02.1 56 34 25 36 24 40 16 41 45 42 22 45 18 46 43
9.	iP i eS i i L L	NEZ Z NE E N E N	07	49	28.3 34.8 55 45 52 56 09 58 33 50
	iP:S,W,dilatation Mag. 5 1/2 - 5 3/4 (Matsushiro) 1 S., 124 E. Celebes. H=07 41 57 USCGS				
9.	iP Z, P NE i iP:S,E,compression	NE NE	10	21	55.8 45.8

Date	Phase	Comp.	Time(GMT)		
			h	m	s
9.	P NE, eP E eS	E NE	15	35	27 23 52
9.	P i	NEZ EZ	17	19	35 39.6
9.	P Z, eP NE i PP eS i Lq Lr Lr	Z Z E NE NE E N	17	57	03 05 58 31 18 03 29 04 24 06 32 09 47 10 49
	Mag. 5 - 5 1/2 (Matsushiro) 55 1/2 N., 135 W. Unimak I. region. H=17 49 07 USCGS				
9.	eP	NEZ	18	01	14
9.	eP eL	Z N	22	43	35 54 05
10.	iP i eS iP:N	NZ E E	04	45	31.7 32.1 51
10.	P eS e eL L	NEZ N N N E	06	31	37 35 29 59 36 44 39 15
	12 N., 145 E. Mariana Is. region. h:100 km ca. H=06 26 00 USCGS				
10.	iP iS	E N	06	57	44.1 48.6
10.	iP NZ, P E i S? i	Z Z NEZ Z	13	34	29.5 32.2 42.2 47.2
10.	iP S iP:S,dilatation	NZ NE	13	41	13.6 38.2
10.	P e e eL	Z N E N	18	34	42 36 44 59 42 40 45
10.	iP i	NEZ E	22	53	07.4
	(cont.)				



Date	Phase	Comp.	Time(GMT)		
			h	m	s
14.	eP	Z	16	06	36
	eS	N		12	53
	e	N		15	53
	i	N		21	15
	L	N			
3 S., 127 1/2 E. Ceram I. region. H=15 58 56 USCGS					
14.	eP	Z	17	00	20
	S	EZ			29
14.	P	EZ	18	26	17.7
	eS	E		27	00
	i	N		28	42
	P:E,dilatation				
14.	P	Z	18	59	37
	e	N		19	00
	e	E		01	29
P:dilatation					
14.	P	Z	20	57	54.4
	S	E		59	48
P:dilatation 44 1/2 N., 148 E. Kurile Is. H=20 55 10 USCGS					
14. ✗	eL	N	22	21	08
	eL	N		33	58
	eL	E		36	15
11 N., 43 W. Atlantic Ocean. H=21 25 15 USCGS					
14.	P	Z	22	56	17
	i	Z			23
	i	Z			47
15.	e	E	03	12	45
	eL?	N		14	25
	e	E		16	49
15.	P	EZ	04	41	43.7
	i	NE			44.4
	i	E		42	07
	i	Z			19
	S	NE			28
	i	E			29
	L	N		43	17
15.	P	Z	07	07	27
	15. ✓	PKP	NEZ	09	49
i		Z			43.2
i		Z			52
PP		Z			53
PS		N	10	03	45
SS	N		11	42	
(cont.)					

Date	Phase	Comp.	Time(GMT)			
			h	m	s	
Date continued						
	i	E	10	12	18	
	i	E		15	10	
	SSS	N		17	04	
	Lr	Z		35	43	
	Lr	E		36	42	
	Lr	N		37	56	
	L	E		54	50	
	L	Z	11	13	25	
	PKP:S,W,compression Mag. 7 1/2 (Matsushiro) 15 S., 75 W. Near coast of southern Peru. h:150 km ca. H=09 30 24 USCGS					
	15.	P	NZ	17	14	50.7
i		E			51.4	
i		E		15	07	
e		N		18	55	
e		N		19	50	
P:S,dilatation						
15.	iP	EZ	20	52	04.5	
	S	N			25	
iP:E,dilatation						
15.	eP	NEZ	23	45	59	
	e	E		00	02	
Northern Celebes. region. H=23 38 50 USCGS						
16.	P	Z	04	05	33.4	
16.	P	NZ	05	22	06.1	
	e	NEZ		23	26	
	P:N,compression					
16.	eP	Z	05	38	10	
	e	NE		43	27	
16.	eL	N	07	42	32	
	eL	N		46	40	
	59 1/2 S., 149 1/2 E. About 500 miles southwest of Macquarie Is. H=06 59 00 USCGS					
16.	P	NEZ	11	50	39.8	
16.	P	NEZ	11	54	43.8	
	P:compression					
16. ✓	P	EZ	12	41	13.4	
	pP	Z		43	10	
	P:E,dilatation 20 1/2 S., 178 W. Fiji Is. region. h:600 km ca. H=12 30 56 USCGS					

Date	Phase	Comp.	Time(GMT)		
			h	m	s
16.	P	NEZ	12	56	02.8
P:N,dilatation					
16.	P	Z	15	43	56.9
	P:compression 22 1/2 S., 173 1/2 E. Loyalty Is. region. H=15 32 53 USCGS				
16.	P	NEZ	16	37	18
	i	Z			21
	i	Z			46
16.	P	Z	17	31	51.0
	i	Z		32	11
P:compression					
16.	P	Z	18	48	03.0
	P:compression 18 S., 167 1/2 E. New Hebrides Is. region. h:200 km ca. H=18 33 40 USCGS				
	16. ✓	P	EZ	20	58
i		Z			41.3
P:W,compression 63 N., 151 W. Alaska. h:150 km ca. H=20 49 31 USCGS					
16.	P	Z	21	50	54
	10 S., 163 1/2 E. Solomon Is. H=21 41 44 USCGS				
16.	P	Z	23	29	08
16.	P	Z	23	33	12
	P:compression				
17.	P	Z	05	08	13.2
	S	E			59
	i	NEZ		09	12
P:dilatation					
17. ✓	PKP	Z	03	17	15
	pPKP 2	Z		18	06
Mag 5 1/2 (Pasadena) 14 1/2 S., 174 1/2 W. Near coast of southern Peru. h:150 km ca. H=02 57 58 USCGS					
17. ✓	iP	Z	04	20	35.2
	i	Z			40
	i	NE			41
	eS	NE		21	41
iP:compression					

Date	Phase	Comp.	Time(GMT)		
			h	m	s
Date continued					
40 1/2 N., 142 E. Off coast of northern Honshu, Japan. H=04 19 07 USCGS					
17.	iP	NEZ	04	34	45.7
	i	E		35	05
	eS	E			19
iP:N,W,compression					
17.	eP	Z	05	19	53
	17.	P	Z	08	04
eS		E		05	30
P:compression					
17.	P	Z	10	04	43
	S	EZ		05	04
17.	P	Z	10	30	17
	i	Z			43
P:compression					
17.	P	Z	12	02	41
	i	Z			43
S?					
17.	P	Z	17	02	47
	S	Z		03	17
P:compression					
18. ✓	iP	EZ	09	11	23.6
	i	N			24.1
	i	N		16	54
	S	E			36
18. ✓	Lq	NE		18	50
	Lr	N		21	32
	iP:E,compression Mag. 5 3/4 - 6 (Matsushiro) 5 N., 126 1/2 E. Off south coast of Mindanao, Philippine Is. H=09 04 43 USCGS				
18.	e	N	20	49	42
	18.	iP	NEZ	21	53
i		N		54	04
S		N			17
iP:S,dilatation					
19. ✓	iP	NEZ	02	21	35.8
	i	E			45
	S	E		25	26
	i	E			27.7
19. ✓	i	E			29
	dLq	E		26	25
	eLr	NE		27	49
(cont.)					

Date	Phase	Comp.	Time(GMT)		
continued			h	m	s
19.	Lr	E	02	28	03
	iP:N,E,dilatation Mag. 5 1/4 (Matsushiro) 52 N.,158 E. Near southeast coast of Kamchatka. H=02 16 52 USCGS				
19.	iP	NEZ	09	25	29.2
	i	Z		26	41
	S	N		34	04
	i	E			06
	eScS?	N			39
	e	E		37	32
	sSP	N			47
	e	N		38	12
	eSS	N			54
	esSS?	N		41	56
	eL	NE		45	01
	iP:S,E,dilatation Mag. 6 (Pasadena) 28 S.,180 . South of Fiji Is. h:600 km ca. H=09 15 04 USCGS				
19.	P	NEZ	10	00	09
	i	N			21
	eS	N			33
19.	P	NZ	12	00	44
	S	NZ		01	03
19.	iP	NEZ	15	44	32.6
	i	N			48
	i	E			51
	eS	N			57
	iP:E				
19.	P	NEZ	16	18	35
	S	NE		15	50
	L	E		16	50
	Lr	N		17	16
	24 N.,142 E. Volcano Is. h:100 km ca. H=16 10 36 USCGS				
19.	iP	NEZ	22	01	06.4
	iS	EZ			23.9
	iP:S				
19.	e	N	23	52	02
	e	N		54	43
20.	eF	NEZ	00	03	03
	eS	N			45
20.	iP NZ, P E		01	40	31.0
	i	N			51.7
	i	Z			52.0
	iP:S,E,compression				

Date	Phase	Comp.	Time(GMT)		
			h	m	s
20.	iP	E	03	00	16
	17 1/2 S.,178 W. Fiji Is. h:500 km ca. H=02 50 02 USCGS				
20.	eL	N	03	58	04
	Mag. 5 (Pasadena) 38 1/2 N.,122 W. Near coast of central California. H=03 25 50 USCGS				
20.	P	Z	04	03	13.9
	i	Z			24
	S	NE			56
20.	P EZ, eP N		09	44	46
	i	N		45	07
	i	E			46
	e	N		47	20
20.	e	N	12	08	07
20.	P	NEZ	13	42	39.3
	i	E			48
	S	E		43	00
	i	N			03
	P:S,W,compression				
20.	eL	N	20	17	32
	4 1/2 S.,153 1/2 E. New Britain region. H=19 56 14 USCGS				
21.	P	Z	10	53	22.8
	i	Z			31.6
	ePP	N			56 00
	e	N			59 00
	S	E		11	02 09
	i	N			16
	eLq	NE		09	10
	eL	E		14	40
	P:dilatation Mag. 6 - 6 1/4 (Matsushiro) 16 S.,179 1/2 E. Fiji Is. h:600 km ca. H=10 43 33 USCGS				
21.	eP	Z	16	50	28
	6 N.,126 E. Near south coast of Mindanao,Philippine Is. H=16 45 51 USCGS				
21.	eP	Z	17	54	48
	15 1/2 S.,174 W. Samoa Is. region. h:100 km ca. H=17 43 46 USCGS				
22.	eP	Z	01	45	28
	(cont.)				

Date	Phase	Comp.	Time(GMT)		
continued			h	m	s
22.	i	Z	01	45	35
	e	N		52	50
	eL	N		55	20
22.	iP	NEZ	02	16	03.3
	e	N		17	09
	S	NE			23.3
	iP:S,W,compression Mag. 5.0 (Matsushiro) 42 N.,142 1/2 E. Near south coast of Hokkaido,Japan. H=02 14 11 USCGS				
22.	iP	NEZ	09	43	54.7
	S?	N		44	14
	iP:E,dilatation				
22.	P	NEZ	13	43	21.2
	i	N			25.7
	i	N		49	10.7
	eS	N			20
	L	N		51	54
	eL	N		55	16
	P:N,compression 0.,125 E. Molucca Passage. H=13 35 54 USCGS				
22.	P	NEZ	14	28	41
	i	E			46
	i	N			49
	i	EZ			55
	S?	NE			29 17
23.	P	Z	01	22	20
	i	NE			22
	S	NE			25 56
23.	P	Z	01	52	06
	i	NE			08
	S	NEZ			36
23.	iP	Z	04	29	54.4
	i	N			30 04
	eS	NE			33 52
	L	N			35 13
	L	E			52
	iP:dilatation Mag. 5 1/4 - 5 1/2 (Matsushiro) Off northwest coast of Luzon, Philippine Is. H=04 24 45 USCGS				
23.	iP	NZ	04	48	48.3
	i	E			49.9
	i	NE			53
	PP	N			50 28
	PPP	N			51 30
	(cont.)				

Date	Phase	Comp.	Time(GMT)		
continued			h	m	s
22.	iS	NE	04	55	03.9
	i	N			17.9
	Lq	N		58	17
	Lq	E			19
	ScS	N		59	00
	Lr	E		05	00 04
	Lr	N			43
	iP:N,compression Mag. 6 3/4 - 7 (Matsushiro) 4 S.,127 1/2 E. Ceram I. region. H=04 40 56 USCGS				
23.	P	Z	04	55	57
23.	iP	NEZ	06	34	20.1
	iP:N,W 17 S.,177 W. Fiji Is. region. h:400 km ca. H=06 24 03 USCGS				
23.	iP	NZ	07	59	05.9
	i	E			07.1
	PP	N			40 50
	PP	Z			41 02
	PPP	N			53
	S	NE			45 18
	i	N			26
	Lq	E			43 33
	ScS?	N			49 05
	Lr	NEZ			51 06
	PKPPK?	EZ		08	12 02
	iP:N,compression Mag. 6 3/4 - 7 (Matsushiro) 4 S.,127 1/2 E. Ceram I. region. H=07 51 14 USCGS				
23.	P	Z	07	48	35
23.	iP	NEZ	08	04	43.2
	i	Z			45
	iS	NEZ			49.3
	iP:N,E,dilatation				
23.	iP	NEZ	08	30	18.9
	i	E			26.4
	S	N			41
	iP:S,W,dilatation				
23.	iP	NZ	10	02	30.8
	i	NZ			33
	S	NE			36.3
	iP:S				
25.	e	N	12	51	07
25.	iP	Z	18	04	22.3
	i	N			23.3
	(cont.)				

Date	Phase	Comp.	Time(GMT)		
			h	m	s
continued					
	i	EZ	18	04	25
	i	N		07	24
	i	N		10	12
	S	E			36
	i	NE			56
	Lq	N	13	41	
	ScS?	N	14	20	
	Lr	N	16	25	
	Lr	E			30
	iP:compression Mag. $6\frac{1}{2}$ - $6\frac{3}{4}$ (Matsushiro) $4\frac{1}{2}$ S., $127\frac{1}{2}$ E. Ceram I. region. H=17 56 30 USC GS				
23.	eL	N	20	40	20
23.	P	Z	20	41	33
	eS	NZ			52
23.	eP	Z	20	44	28
	S	N			45
23.	P	NEZ	20	45	55.9
	S	NE		46	14.9
	P:N, W, dilatation				
23.	iP	NEZ	21	03	01.4
	S	NE			21
	iP:S,E,dilatation				
23.	P	NEZ	21	20	47
	S	Z		21	05
23.	P	Z	21	21	26
	S	NE			44
23.	eS	N	22	11	58
	eL	E		17	00
	eL	N		18	20
	$5\frac{1}{2}$ S., 152 E. New Britain. H=21 57 08 USC GS				
23.	P	Z	23	55	45
	e	NE		00	05 31
	eL	NE			08 18
24.	P	Z	00	50	42
	eL	N		01	08 43
	Mag. $4\frac{1}{2}$ (Berkeley) $43\frac{1}{2}$ N., $127\frac{1}{2}$ W. Off coast of Oregon. H=00 39 33 USC GS				
24.	eP	Z	01	14	55
	e	N			27 29
	e	N			38 02

Date	Phase	Comp.	Time(GMT)		
			h	m	s
24.	iP EZ, P N		04	32	30
	i	NZ			33
	i	E			39
	PPP	E		36	35
	e	N		39	35
	S	NE		41	17
	i	E		44	02
	SS	NE		45	34
	Lq	N		47	54
	Lq	E		48	01
	Lr	N		53	26
	Lr	E			36
	iP:E,dilatation Mag. $6\frac{3}{4}$ - 7 (Matsushiro) $15\frac{1}{2}$ S., 179 W. Fiji Is. H=04 21 42 USC GS				
24.	P	NEZ	08	15	24.3
	S	NEZ			41.3
24.	P	Z	09	22	14
	Banda Sea. H=09 14 03 USC GS				
24.	P	NEZ	09	28	15.3
	P:dilatation $20\frac{1}{2}$ S., 180 E. Fiji Is. region. h:600 km ca. H=09 17 59 USC GS				
24.	P	Z	12	24	01.3
	$4\frac{1}{2}$ S., $143\frac{1}{2}$ E. New Guinea. h:100 km ca. H=12 16 23 USC GS				
24.	iP	NEZ	14	24	42.3
	iS?	NE			49
	iP:N,dilatation				
24.	iP	NZ	14	58	10.8
	i	E			11.3
	e	E		15	06 08
	iP:S,compression				
24.	P	NZ	15	49	10.3
	i	E			12
	i	Z			13
	S	Z			16.1
	P:dilatation				
24.	P	Z	17	06	38
	i	Z			51
	$14\frac{1}{2}$ S., $166\frac{1}{2}$ E. New Hebrides. H=16 56 44 USC GS				
24.	iP Z, P N		18	38	41.1
	i	E			41.9

Date	Phase	Comp.	Time(GMT)		
			h	m	s
continued					
	i	Z	18	38	52
	PPP?	Z			39 45
	e	E			46 00
	eL	E			49 10
	iP:compression $52\frac{1}{2}$ N., 160 E. Near east coast of Kamchatka. H=18 33 45 USC GS				
25.	iP Z, P NE		01	18	53.0
	S	NE			19 07
	iP:dilatation				
25.	iP	NEZ	08	51	22.8
	i	EZ			33
	S	E			55 28
	e	N			34
	eL	E			57 46
	eL	N			56
	iP:S,W,compression Mag. $5\frac{1}{4}$ - $5\frac{1}{2}$ (Matsushiro) $52\frac{1}{2}$ N., 160 E. Near east coast of Kamchatka. H=08 46 25 USC GS				
25.	iP Z, P E		11	31	26.3
	i	Z			39.3
	e	N			35 58
	eL	N			38 28
	eL	E			48
	iP:compression $52\frac{1}{2}$ N., 160 E. Near east coast of Kamchatka. H=11 26 31 USC GS				
25.	P	Z	16	40	17
	e	N			41 08
	S	NE			49 04
	L	E			55 45
	L	N			53
	Lr	Z		17	00 50
	L	E			01 27
	L	N			32
	Mag. $6\frac{1}{4}$ - $6\frac{1}{2}$ (Matsushiro) 16 S., 179 W. Fiji Is. H=16 29 26 USC GS				
25.	iP	NEZ	16	43	03.9
	iP:N,dilatation				
25.	iP	NEZ	19	21	44.9
	i	Z			57
	iP:N,dilatation				
25.	iP	Z	20	22	11.5
	i	NEZ			13.5
	S	N			35
	i	E			36

Date	Phase	Comp.	Time(GMT)		
			h	m	s
26.	e	N	04	42	24
	e	N			45 35
26.	iP Z, P E		07	53	48.0
	i	Z			54
	S	NEZ			54 03
	iP:compression				
26.	iP	Z	09	39	48.4
	i	NE			49.0
	i	Z			40 08
	eS	N			42 08
	e	E			40
	iP:dilatation $44\frac{1}{2}$ N., $149\frac{1}{2}$ E. Kurile Is. H=09 37 00 USC GS				
26.	P	Z	10	03	44
	$39\frac{1}{2}$ N., $39\frac{1}{2}$ E. Turkey. H=09 52 00 USC GS				
26.	iP	NEZ	19	47	25.1
	S	NEZ			47
	iP:S,E,dilatation				
26.	P?	Z	22	33	20
	eL?	N			58 49
	30 S., 178 W. Kermadec Is. H=22 21 19 USC GS				
27.	iP	Z	09	44	31.5
	i	NE			32
	i	NE			50.8
	iP:dilatation				
27.	iP	EZ	10	07	14.3
	S	Z			24
	i	NE			26
	iP:E,dilatation				
27.	iP	NEZ	11	18	52.3
	S	NE			19 14
	i	Z			18
	iP:S,W,dilatation				
27.	iP Z, P NE		12	45	55.3
	eS	NE			49 40
	eL	E			50 32
	iP:compression				
27.	iP	NEZ	15	31	10.8
	i	Z			14
	S	NE			23
	iP:N,E,dilatation				
27.	iP	Z	19	20	16.3
	eL	N			30 54
	iP:compression				

Date	Phase	Comp.	Time(GMT)			Date	Phase	Comp.	Time(GMT)		
			h	m	s				h	m	s
28.	P	Z	01	56	44.7	29.	P	Z	22	51	01.7
	i	N		57	09		i	Z			08
	i	E			16		i	NE			10
	i	Z			18		e	N		52	48
28.	P	NEZ	03	42	10		eS	E		53	46
	S	NE			23		eL	N		54	30
							eL	E			36
28.	iP	Z	07	56	33.4		Mariana Is. region.				
	i	NE			34		H=22 47 20				
	i	Z			50	30.	e	NE	00	17	30
	iP:dilatation						USCGS				
28.	iP	EZ, P N	08	51	10.7	30.	iP	NZ, P E	00	50	12.2
	i	E			16.7		S	NEZ			28
	e	N			53	30.	iP:S,compression				
	iP:E,dilatation					30.	P	Z	02	48	37
	42.8 N.,145.9 E. Near northeast coast of Hokkaido,Japan.						i	Z		49	34
	h:40 km ca. J.M.A.						eL	NE		52	12
							22 N.,144 1/2 E.				
							Mariana Is. region.				
28.	iP	NZ	21	56	44.0		H=02 45 03				
	i	E			45.2	30.	eP	Z	03	52	26
	eS	N	22	01	24		eL	N		56	05
	eL	E			05	30.	P	Z	04	22	34
	eL	N			28		Kermadec Is.				
	iP:S,dilatation						H=04 10 40				
29.	P	Z	07	42	41.7	30.	eP	Z	04	48	57
	i	Z			43		eL	N		52	50
	e	N			54	30.	iP	NEZ	06	50	25.2
	e	N	08	08	20		iS	NEZ			35.2
	iP:N,compression						iP:E,compression				
29.	iP	NZ	08	18	05.2	30.	iP	NZ	07	14	56.2
	i	E			06		i	E			56.7
	i	Z			35		S?	N		15	43
	i	E			43	30.	iP:N,compression				
	eS	N			24	30.	eP	Z	08	01	19
	eL	N			27		eL	NE		05	10
	eL	E			56	30.	P	NE	09	01	42
	iP:N,compression						e	N		03	08
	Mag. 5 1/4 (Matsushiro)						eL	NE		05	08
	4 8.,142 1/2 E. New Guinea.						P:compression				
	H=08 10 13						21 1/2 N.,142 1/2 E.				
	USCGS						Mariana Is. region.				
29.	e	N	08	46	05	30.	eP	Z	11	04	06.5
	eL	N			54		i	Z			26
	eL	E			56		iP:dilatation				
29.	P	NEZ	11	29	57						
	S	NEZ			30	30.	eP	Z	09	47	04
					06		e	NE		52	20
29.	iP	NEZ	22	03	15.8						
	S	NE			24						
	i	Z			26						
	iP:N,E										

Date	Phase	Comp.	Time(GMT)			Date	Phase	Comp.	Time(GMT)		
			h	m	s				h	m	s
50.	P	Z	11	13	45	30.	P	Z	18	34	30
	eL	N			16		eL	E		38	20
30.	iP	Z, P NE	12	27	59.8		eL	N			58
	e	N			40	30.	eP	Z	18	41	52
	e	E			41		i	NZ			54.5
	iP:compression						i	NZ			57
30.	P	EZ	13	03	52		i	NE			42
	eL	E			07		eS	E			44
	eL	N			08		eL	N			45
30.	eP	Z	14	25	18		Mag. 5 3/4 (Matsushiro)				
	eL	N			29		22 N.,144 E.				
							Mariana Is. region.				
							H=18 38 10				
							USCGS				
30.	P	Z	15	01	06.2	30.	eP	Z	19	27	00
	i	NZ			08		eL	E			30
	i	E			14		eL	N			31
	eL?	N			05	30.	P	Z	19	34	33
	P:compression						eL	E			33
30.	P	Z	15	22	05		eL	N			30
	e	N			26	30.	iP	EZ	20	39	03.6
	eL	NE			27		i	EZ			06.7
30.	iP	Z	15	31	02.3		i	N			08
	i	NEZ			04		eL	E			41
	i	EZ			12.7		eL	N			48
	eL	N			34		iP:E,compression				
	eL	E			33	30.	P	EZ	21	34	45
	iP:compression						i	N			46
30.	eP	Z	15	50	36		i	NEZ			56
	eL	NE			54		eL	NE			38
30.	P	Z	17	39	19	30.	P	Z	21	59	00
	i	Z			39		i	Z			07
	eL	N			42		i	Z			19
	eL	E			43	30.	P	Z	22	38	53
							i	E			39
							i	Z			05
30.	P	Z	17	45	41.7	30.	P?	NEZ	22	40	25
	eL	E			49		i	NZ			31
	eL	N			50		i	E			32
30.	P	Z	17	59	44.7	31.	eP	Z	03	38	34
	i	E			45.7		i	E			35
	i	N			46		i	Z			44.7
	i	Z			52		i	Z			39
	L	E			18		eL	N			41
	P:compression						21 1/2 N.,143 1/2 E.				
	Mariana Is. region.						Mariana Is. region.				
	H=17 56 05						H=03 34 42				
	USCGS						USCGS				
30.	eP	Z	18	27	24						
	eL	NE			31						

Date	Phase	Comp.	Time(GMT)			Date	Phase	Comp.	Time(GMT)			
			h	m	s				h	m	s	
31.	iP	NZ	04	12	33.2	31.	P	Z	20	32	02	
	i	E			33.7		i	Z			05	
	i	Z			40.2		eL	NE			35 20	
	pP	Z	13	18	7							
	iP:compression 12½ S., 167½ E. Santa Cruz Is. h:200 km ca. H=04 03 11 USC GS											USCGS
31.	iP	EZ, P N	05	09	26.2							
	i	Z			36							
	i	NEZ			38							
	i	Z	10	04								
	S	NE			23.4							
	i	N			32							
	i	E			39							
	i	Z	12	35								
	i	Z	13	27								
	i	Z	15	21								
	iP:W,dilatation Mag. 5.8 (Matsushiro) 33½ N., 134½ E. Near east coast of Shikoku, Japan. H=05 08 18 USC GS											
31.	P	EZ	08	23	36							
	i	Z			44							
	eL	NE	27	06								
	21½ N., 143½ E. Mariana Is. region. H=08 19 50 USC GS											
31.	eL	N	14	12	35							
	eL	E			13 01							
	34 N., 91 E. Chinghai Province, China. H=13 52 00 USC GS											
31.	iP	Z	15	08	26.2							
	i	Z			37.6							
	eL	NE	12	20								
	iP:dilatation											
31.	eP	EZ	16	16	12							
	eL	NE	20	10								
	Mariana Is. region.											
31.	iP	Z, P NE	17	32	10.1							
	eL?	N			39 46							
	iP:dilatation Near east coast of Kamchatka. H=17 26 38 USC GS											
31.	iP	EZ	19	33	26.7							
	i	N			34 06							
	eL	E			39 54							
	eL	N			40 10							
	iP:E,compression											

February																		
Date	Phase	Comp.	Time(GMT)			Date	Phase	Comp.	Time(GMT)			Date	Phase	Comp.	Time(GMT)			
			h	m	s				h	m	s				h	m	s	h
1.	P	Z	02	19	07	2.	iP	NEZ	08	11	31.2							
	eS	N			27 59		i	E			40							
	eL	N	03	35	28		i	E			47							
	43 N., 132 W. Pacific Ocean. H=02 08 37 USC GS							S	E	12	03							
	e	N			05 ca.		e	N			05 ca.							
1.	iP	NEZ	02	42	15.8		i	NE			16							
	i	N			31		i	Z			18							
	S	E			35		iP:N,E,Dilatation Mag. 5 ca. (Matsushiro) 37.5 N., 141.5 E. h:40km ca. Honshu, Japan. J.M.A.											
	iS	Z			38													
	i	N			39													
	iP:N,W,Compression Mag. 5¼ - 5½ (Matsushiro) 35 N., 140½ E. Near east coast of Honshu, Japan. H=02 41 37 USC GS						2.	P	NEZ	08	23	15						
							S?	NE			48							
1.	eP	Z	12	12	25		i	E			24 44							
	eL	NE			50 00													
	35 N., 23½ E. Near west coast of Crete. H=11 59 34 USC GS						2.	iP	NZ	08	55	03.6						
1.	P	EZ, eP N	14	00	52		S	NEZ			20							
	i	NEZ			55		iP:N,W,Compression											
	S	NE	04	46														
	iPcP	Z			58		2.	PKP	Z	09	31	56						
	e	N	06	12			28½ S., 69 W. San Juan Province, Argentina. H=09 12 52 USC GS											
	L	E	07	18														
	Lr	NE	09	27														
	50½ N., 160 E. Off east coast of Kamchatka. H=13 56 08 USC GS						2.	iP	Z	23	47	14.3						
1.	iP	EZ	20	02	01.1		i	NE			14.7							
	i	N			01.2		i	Z			39							
	i	Z			11		L E, eL N 55 45											
	i	NZ			31		iP:Dilatation 2 N., 126 E. Molucca Passage. H=23 40 01 USC GS											
	S	NE			38													
	iP:E,Dilatation						2.	eP	Z	23	57	44						
1.	eP	NEZ	21	37	27 ca.		S	NE	00	02	47							
	eS?	NE			39 14		Lq	N			05 13							
2.	eP	Z	02	41	41		Lq	E			59							
	i	E			42		Lr	N			07 48							
	i	NZ			45		34½ N., 104½ E Kansu Province, China. H=23 51 57 USC GS											
	i	NEZ			48													
	S NE, iS Z		42	24.6														
	i	NE			29.6													
2.	e	N	07	03	36													
	L	NE			07 55													
	35½ S., 179 W. Kermadec Is. region. H=06 29 52 USC GS						3.	P	NEZ	02	33	16						
							i	NEZ			25							
							PP	Z			36 30							
							i	E			35							
							i	E			55							

Date	Phase	Comp.	Time(GMT)
			h m s
continued.			
	S	N	02 43 30
	eL	N	54 35
	Lr	NE	03 01 21
	37 S., 179 E. Off coast of North Island, New Zealand. H=02 20 55 USCGS		
3.	iP	NEZ	02 50 54.7
	i	N	51 45
	i	E	52 27
	iP:N,E,Dilatation 45 N., 158 1/2 E. Off west coast of Hokkaido, Japan. H=12 48 52 USCGS		
3.	P	NEZ	14 40 08.0
	i	Z	46
	S	N	49 32
	L	NE	58 25
	19 S., 173 1/2 W. Tonga Is. H=14 28 59 USCGS		
4.	iP Z,P E		03 54 35.6
	i	N	39
	i	NEZ	55 39
	i	EZ	56 31
	i	Z	04 00 54
	i	N	39
	S	NE	58
	Lq	N, Lq E	05 03
	Lr	EZ	07 24
	iP:Compression Mag. 6 1/2 (Matsushiro) 4 1/2 S., 158 1/2 E. New Ireland region. H=03 46 30 USCGS		
4.	iP EZ,P N		06 23 14.7
	iS N,S E		44
	iP:N,W,Compression		
4.	P	NEZ	08 49 17
	i	E	22
	i	E	41
	i	N	49
4.	eP	Z	09 35 28
	i	NE	31
	i	Z	37 35
	S	NE	41 47
	i	N	43 59
	Lq	E	44 19
	iLr N,Lr E		48 14
	Lr	Z	50 19
	Mag. 5 1/2 (Matsushiro) (cont.)		

Date	Phase	Comp.	Time(GMT)
			h m s
continued.			
	5 S., 154 E. New Ireland region. h:100km ca. H=09 27 23 USCGS		
4.	P	EZ	10 29 16
	35 1/2 N., 78 E. Northern India. h:100km ca. H=10 20 59 USCGS		
4.	eS	N	11 15 41
	e	N	20 25
	eL?	E	45
	4 1/2 S., 155 1/2 E. New Britain region. H=11 01 18 USCGS		
4.	iP	NZ	13 35 44.3
	i	E	44.7
	S	NEZ	53 00
	iP:S,Compression		
4.	eP	EZ	15 08 33
	i	N	35
	e	N	12 32
	e	E	13 21
4.	iP	NEZ	16 51 37.8
	iS	NEZ	52 37.2
	i	N	41
	i	E	45
	L	E	58
	PcP	EZ	59 29
	i	Z	17 00 24
	iP:S,W,Compression Mag. 6 - 6 1/2 (Matsushiro) 38.4 N., 145.7 E. Honshu, Japan. h:60km ca. J.M.A.		
4.	iP	Z	17 22 25.1
	i	NEZ	25.4
	S	NZ	31
	iP:Compression		
4.	iP NZ,P E		17 25 08.0
	S	NEZ	52
	iP:S,Dilatation		
4.	iP	NEZ	17 29 42.9
	S	NE	30 17
	iP:S,W,Dilatation		
4.	P	NEZ	18 48 04-05
	S	NE	11
	P:in time mark.		
4.	eP	Z	20 06 13
	i	NEZ	15.0

Date	Phase	Comp.	Time(GMT)
			h m s
continued.			
	i	EZ	20 07 24
	i	N	28
	P:Dilatation		
4.	iP	NEZ	20 48 29.0
	iP:S,E,Dilatation 18 1/2 S., 178 W. Fiji Is. h:600km ca. H=20 38 20 USCGS		
4.	iP	NEZ	20 55 16.2
	iS E,S NZ		22.2
	iP:N,Compression		
4.	iP	NEZ	20 59 02.9
	S	N	54
	i	NEZ	21 00 17
	i	E	54
	iP:S,W,Compression Mag. 5 1/2 (Matsushiro) 38.7 N., 143.5 E. Honshu, Japan. h:50km ca. J.M.A.		
4.	P	NEZ	22 54 05-06
	S	NEZ	55 13
	P:in time mark.		
4.	P	NEZ	22 59 08 ca.
	i	NE	09.9
	i	Z	14
	i	N	23 00 37
5.	e	N	02 17 46
5.	L	E	03 06 05
	L	N	42
	Mag. 5 3/4 - 6 (Matsushiro) 37 S., 95 1/2 W. South Pacific Ocean. H=02 02 14 USCGS		
5.	eP	EZ	05 47 55
	i	Z	49 39
	S	N	53 15
	i	NE	54 17
	L	N	56 55
	L	E	57 51
	Mag. 5 1/2 (Matsushiro) 4 1/2 S., 153 1/2 E. New Britain region H=05 39 46 USCGS		
5.	iP	NZ	06 15 29.6
	i	E	30.3
	S	NEZ	49
	iP:N,Compression		

Date	Phase	Comp.	Time(GMT)
			h m s
5.	iP Z,P NE		06 34 55.6
	S	E	35 14
	i	N	15
	iP:Compression		
5.	iP	NEZ	08 45 19.7
	i	N	30
	S	NE	47 26
	ePcP?	Z	51 38
	iP:S,W,Dilatation 32 1/2 N., 131 1/2 E. Near coast of Kyushu, Japan. H=08 43 36 USCGS		
6.	iP Z,P NE		01 07 47.9
	P:N,Compression		
6.	eP	Z	01 10 54
	i	N	55.8
	i	E	55.9
6.	eL?	N	02 29 47
6.	eL?	N	02 40 05
	L	N	44 05
6.	iP	NZ	08 06 03.0
	P:S,Dilatation		
6.	iP	NEZ	11 03 14.3
	iS	NZ	16.7
	iP:S,Dilatation		
6.	eP	Z	11 53 33
	i	E	43
	S	NEZ	50
6.	eP	Z	17 08 45
	eL	N	21 27
	eL	E	35
	51 1/2 N., 91 E. Tibet. H=17 01 48 USCGS		
6.	iP	Z	17 20 02.2
	i	NE	02.7
	e	N	53
	i	Z	21 13
	eL	N	36 53
	eL	E	38 22
	iP:Compression 6 S., 104 E. Near coast of Sumatra. H=17 10 45 USCGS		
6.	iP	Z	17 31 45.2
	i	Z	59
	iP:Dilatation		

Date	Phase	Comp.	Time(GMT)	Date	Phase	Comp.	Time(GMT)	Date	Phase	Comp.	Time(GMT)
			h m s				h m s				h m s
10.	iP	NEZ	17 51 38.8	11.	iP	NEZ	07 33 38.1	12.	iP	NEZ	02 33 16.8
	iS	NE,S Z	38.9		i	NZ	38		i	Z	43.2
	iP	S,W,Dilatation			iP	E,Dilatation			iP	S,E,Dilatation	
10.	eP	Z	21 58 38	11.	eP	Z	08 00 35	12.	iP	NZ	04 47 38.7
	i	N	40		e	EZ	39		e	Z	41
	i	E	44		e	NE	02 35		iS	NEZ	49.5
	e	N	22 00 37	11.	eP	NEZ	08 02 57	12.	iP	N,Dilatation	
	eS	N	04 47		i	Z	57.7		i	Z	15 06 09.7
	L	N	10 35	11.	P	Z	08 37 07.4	12.	iP	NEZ	22 08 10.0
	Mag. 5 - 5 1/4 (Matsushiro)				e	Z	38 48		i	Z	30
	3 1/2 S., 151 1/2 E. Bismarck Sea.			11.	6 S., 155 E. Solomon Is.				iP	S,E,Dilatation	
	H=21 50 45 USC GS				h:100km ca.			12.	e	N	23 37 59
10.	P	EZ	23 31 07.2		H=08 28 58 USC GS				e	N	46 05
	i	N	07.3	11.	eP	Z	12 53 52	13.	e	N	49 54
	i	N	38 13		i	Z	54.7		iP	Z	09 44 24.0
	i	N	38 23		i	NE	55.5		e	N	56.1
	S	NE,eS Z	40 22		i	NE	54 36	13.	iP	Dilatation	
	SS	N	45 51		eS	NE	48		e	N	52 1/2 N., 169 W.
	Lq	N	48 03		e	Z			H=09 36 46	Fox Is. USC GS	
	Lr	N	53 49	11.	iPKP	Z	13 14 15.3	13.	iP	NEZ	12 35 38.5
	P:W,Compression				iPKP	Compression			i	Z	36 00
	Mag. 5 3/4 - 6 (Matsushiro)				34 S., 70 1/2 W. Chile. h:100km ca.				iS?	Z	07
	15 1/2 S., 173 W. Samoa Is. region.				H=12 53 59 USC GS				iP	N,E,Dilatation	
	H=23 19 55 USC GS			11.	iP	Z	13 21 56.7		37.4 N., 141.2 E. Honshu, Japan.	h:40km ca. J.M.A.	
11.	iP	NEZ	00 26 25.9	11.	iP	Z	13 21 56.7	13.	eP	NZ	15 48 14
	iP	N,W,Compression			iP	Dilatation			i	Z	15.7
11.	iP	NEZ	02 39 58.8	11.	P	Z	13 59 11		e	N	57
	i	Z	40 11	11.	iP	NEZ	20 46 45.0	14.	eP	Z	20 38 53
	e	NE	43		i	Z	30.7		eS	N	45.3
	iP	N,W,Compression			iS	EZ	47 01.7		eL	N	48.8
11.	iP	EZ	03 15 42.5		e	NE	15		e	N	5 S., 154 1/2 E. Solomon Is.
	i	N	42.7		e	NE	17		H=20 30 44	USC GS	
	e	NE	58	11.	iP	S,W,Dilatation		13.	e	N	17 24 22.2
	S	NE	16 02		e	NZ	21 05 41.4		i	EZ	25 26.7
	iP	E,Dilatation			e	N	09 10		i	EZ	56.2
	35.5 N., 140.3 E. Honshu, Japan.	h:40km ca. J.M.A.			S	N	15 17	13.	P	EZ	19 11 10
11.	iP	NZ	04 10 07.7		e	NE	19 17		e	N	11
	i	E	08.2		eL	NE	21.7	13.	e	EZ	12
	iP	N,Compression			eL	NE	24.6		eS	Z	55
	25 S., 179 W. Pacific Ocean.	USC GS			iP	S,Dilatation		14.	iS	EZ	21 12 15.2
	H=03 58 39				Mag. 5 3/4 - 6 (Matsushiro)			14.	iP	NEZ	22 25 19.6
11.	iP	Z	04 36 40.3		11 S., 166 1/2 E. Santa Cruz Is.				e	N	31 13
	i	E	40.6		H=20 56 08 USC GS				e	N	33 39
	i	Z	37 20.7		12 S., 170 1/2 E. New Hebrides region.				e	E	34 51
	iP	Compression		12.	eP	Z	01 37 46		e	E	36.4
	14 S., 170 1/2 E. New Hebrides region.	h:450km ca. USC GS			e	Z	38 52		(cont.)		
	H=04 27 22				eS	N	44 02	13.	PKP	Z	20 59 39
					eL	N	47 31		i	Z	40.2
					4 1/2 S., 153 1/2 E. New Ireland.				e	Z	21 00 25
					H=01 29 42 USC GS				17 1/2 S., 70 W. Peru.	h:150km ca. USC GS	
									H=20 40 06		

Date	Phase	Comp.	Time(GMT) h m s	Date	Phase	Comp.	Time(GMT) h m s
continued.	iP:S,W,Compression 52 N.,171 $\frac{1}{2}$ W. H=22 17 54	Fox Is. USCGS		continued.	e eS i e eL	E N N E N	05 04 47 08 17 25.1 30 10 00
14.	e	N	23 17.0		iP:Dilatation 18 $\frac{1}{2}$ N.,146 E. H=05 00 14	Mariana Is. USCGS	
15.	e	Z	02 56 28	16.	eP	Z	05 33 55
15.	iP	Z	05 27 17.9		32 $\frac{1}{2}$ N.,179 $\frac{1}{2}$ W. Kermadec Is.region. H=05 21 52	USCGS	
	iP:Compression 18 S.,177 $\frac{1}{2}$ W. h:350km ca. H=05 16 45	Fiji Is. USCGS		16.	iP	NZ	09 17 59
15.	iP	NZ	10 23 14.4		iS	Z	18 11.9
	i	E	14.7		iP:N,Compression		
	e	NZ	38	16.	eP	Z	11 54 57
	i	Z	41		i	NE	58.1
	iP:N,Dilatation				e	N	55 18
15.	e	N	21 54.1		i	N	22.1
15.	e	Z	22 30 27		iS	E	22.6
	e	E	28		i	Z	23.2
	e	N	23 02.1	16.	eP	NEZ	11 59 57
	29 $\frac{1}{2}$ S.,176 $\frac{1}{2}$ W. Kermadec Is. H=22 18 27	USCGS		16.	eP	Z	13 39 45
15.	iP	NE	23 58 06		e	NE	46
	e	NE	20		e	N	41 47
	S	EZ	30		e	Z	57
	i	Z	31.0		e	N	42 53
	P:in time mark.				e	N	52 21
16.	iP	Z	01 21 30.7	16.	e	N	14 14.7
	iP:Compression 29 $\frac{1}{2}$ S.,176 $\frac{1}{2}$ W. Kermadec Is. H=01 09 29	USCGS			e	N	20 22
					e	N	25 14
					e	E	26 56
16.	P	Z	04 21 17.3	16.	iP	NEZ	15 07 06.5
	i	E	17.7		e	N	15
	i	Z	23.6		e	E	19
	e	N	24		i	E	55.9
	i	E	24.8		S	E	08 02
	i	Z	29.0		S	NZ	03
	i	Z	22 11.5		e	E	10 23
	i	Z	22.8		e	Z	25
	e	N	33		e	N	13 02
	P:Compression				e	N	46
16.	e	N	04 29.6		e	NEZ	17 21
	e	N	33 18		iP:N,W,Compression 36 N.,141 $\frac{1}{2}$ E. Off east coast of Honshu, Japan. H=15 06 14	USCGS	
16.	iP	Z	05 04 45.7 (cont.)	- 24 -			

Date	Phase	Comp.	Time(GMT) h m s	Date	Phase	Comp.	Time(GMT) h m s
16.	eP	Z	17 19 41	16.	eP	Z	17 19 41
	i	Z	59.7		i	Z	59.7
	i	E	20 00		i	E	20 00
16.	iP	Z	17 42 46.3	16.	iP	Z	17 42 46.3
	i	N	46.9		i	N	46.9
	i	E	47.3		i	E	47.3
	iS	Z	43 04.6		iS	Z	43 04.6
	iP:Compression				iP:Compression		
16.	iP	NEZ	18 37 05.2	16.	iP	NEZ	18 37 05.2
	iS	NEZ	07.7		iS	NEZ	07.7
	iP:S,W,Dilatation				iP:S,W,Dilatation		
16.	iP	Z	19 02 44.9	16.	iP	Z	19 02 44.9
	i	E	45.0		i	E	45.0
	i	N	45.5		i	N	45.5
	i	E	03 27.4		i	E	03 27.4
	i	Z	30.7		i	Z	30.7
	iP:Dilatation				iP:Dilatation		
16.	iP	EZ	20 06 40.7	16.	iP	EZ	20 06 40.7
	i	N	40.9		i	N	40.9
	i	N	07 00.2		i	N	07 00.2
	e	Z	12		e	Z	12
	iP:Dilatation				iP:Dilatation		
16.	iP	EZ	20 29 32.4	16.	iP	EZ	20 29 32.4
	e	N	33		e	N	33
	i	Z	50 25.7		i	Z	50 25.7
	iP:W,Compression				iP:W,Compression		
16.	P	EZ	20 32 10.9	16.	P	EZ	20 32 10.9
	i	N	11.2		i	N	11.2
	P:W,Dilatation				P:W,Dilatation		
17.	iP	NEZ	10 35 44.5	17.	iP	NEZ	10 35 44.5
	i	Z	51.7		i	Z	51.7
	iS	NZ	36 33.5		iS	NZ	36 33.5
	e	Z	47		e	Z	47
	iP:N,W,Compression				iP:N,W,Compression		
17.	e	EZ	10 37 49	17.	e	EZ	10 37 49
	e	Z	38 27		e	Z	38 27
	i	Z	42.5		i	Z	42.5
17.	e	N	13 00 47	17.	e	N	13 00 47
	e	N	08 26		e	N	08 26
	e	N	20.6		e	N	20.6
	e	N	30.1		e	N	30.1
	e	N	35.1		e	N	35.1
	Mag. 6 $\frac{1}{4}$ (Matsushiro) 30 S.,112 $\frac{1}{2}$ W. Easter Is. region. H=12 32 10	USCGS		17.	P	NEZ	16 29 51.3 (cont.)
17.	iP	NEZ	16 29 51.3 (cont.)	- 25 -			

Date	Phase	Comp.	Time(GMT) h m s
continued.	i	Z	16 29 53.5
	e	Z	30 03
	eS?	N	31 33
	e	E	43
	e	N	58
	e	NE	32 36
	iP:N,E,Dilatation 43 $\frac{1}{2}$ N.,145 $\frac{1}{2}$ E. Near east coast of Hokkaido, Japan. H=16 27 40	USCGS	
17.	eP	NEZ	16 57 34
	i	Z	58 32.0
	eS	N	17 04 06
	eLr	N	07.8
	5 S.,142 $\frac{1}{2}$ E. H=16 49 42	New Guinea. USCGS	
17.	iP	NZ	19 49 13.9
	i	E	14.5
	e	NEZ	50 00
	iP:S,Dilatation		
17.	iP	Z	20 01 00.0
	i	NE	00.3
	e	NE	23
	iP:Dilatation		
18.	e	EZ	05 19 22
	e	NEZ	28
	e	E	57
	e	N	20 01
18.	iP	NEZ	05 40 50.2
	eS	E	41 21
	e	N	23
	e	Z	26
	iP:N,W,Dilatation		
18.	e	Z	05 45 29
18.	iP	Z	05 54 09.2
	i	E	09.5
	e	N	10
	e	EZ	45
	iP:Dilatation		
18.	iP	N	08 19 49.3
	i	Z	49.7
	i	E	49.9
	i	NEZ	20 10
	iP:S.		
18.	iP	NZ	18 34 30.4
	e	E	31
	iP:S,Compression		

Date	Phase	Comp.	Time(GMT)		
			h	m	s
18.	iP	NEZ	19	26	44.6
	i	NE		27	00.2
	eLr	E		33	09
	iP:N,E,Dilatation 52½ N.,159 E. Near east coast of Kamchatka. H=19 21 49 USCGS				
18.	iP	Z	21	16	47.9
	i	N			49.1
	i	E			49.6
	e	Z			50
iP:Compression h:200km ca. USCGS					
18.	iP	NZ	21	40	10.5
	i	E			11.1
	eS	E		44	12
	e	N			19
	eLq	E		46	15
	iLr	E		47	56
iP:S,Compression Mag. 5 3/4 (Matsushiro) 52½ N.,160 W. Near east coast of Kamchatka. H=21 35 11 USCGS					
18.	iP	Z	22	33	41.0
	PcP or PPP	Z		35	49.8
	e	N			36.2
	iP:Dilatation 52 N.,170 W. Fox Is. H=22 26 10 USCGS				
19.	iP	Z	00	26	47.5
	i	NE			47.8
	S	NEZ			52.5
	iP:Dilatation				
19.	eP	EZ	05	18	21
	i	N			21.9
	e	N			36.4
	eLr	N		39	36
	P:Compression 60½ N.,151 W. Kenai Peninsula. H=05 09 23 USCGS				
19.	iP	EZ	06	49	41.3
	e	N			42
	iP:Dilatation				
19.	eP	NEZ	09	41	41
	i	EZ			44.5
19.	iP	EZ	10	45	47.0
	e	N			48
	i	E			48.5
	epP	NEZ		46	36
(cont.)					

Date	Phase	Comp.	Time(GMT)		
			h	m	s
continued.					
18.	PPP or SpP	E	10	49	02
	e	N			06
	iS	E		53	00
	e	N			02
	esS	NE		54	14
	eSS	N		56	46
	e	E			58
19.	iG?	NE	58	35	
	iP:E,Compression Mag. 6¼ - 6½ (Matsushiro) 36 N.,70½ E. Hindu Kush. H=10 36 46				
	h:200km ca. USCGS				
	iP	NZ	12	18	03.
	i	E			05.
	e	NEZ			22
	iP:N,Compression				
19.	iP	NEZ	20	58	52.
	i	E			53.
	iS	NEZ		59	11.
iP:S,Dilatation					
19.	iP	Z,P N	21	03	47.
	i	E			47.
	i	NEZ		04	06
iP:Dilatation					
19.	iP	Z	22	41	14.
	i	NE			14.
	iS	N			53.
	i	EZ			33.
iP:Compression					
20.	eP	EZ	00	26	12
20.	iP	NEZ	03	31	36.
	iS	NZ			38.
	i	E			39.
	iP:W,Dilatation				
20.	iP	NEZ	08	05	11.
	e	N			31
	S	Z			33.
iP:S,E,Dilatation					
20.	iP	NZ	13	08	45.
	i	E			45.
	iS	NZ		09	02.
	i	E			02.
iP:S,Dilatation					
20.	iP	Z	14	31	58.
	i	NE			59.
	eS	E		35	02
	eL	E			37.1
	(cont.)				

Date	Phase	Comp.	Time(GMT)		
			h	m	s
continued.					
20.	iP:Compression				
	52 N.,159 E. Near east coast of Kamchatka. H=14 27 10 USCGS				
	iP	NEZ	15	48	00.7
	iS	E			21.2
20.	i	Z			23.2
	e	E			27.2
	iP:S,W,Dilatation				
20.	iP	NEZ	15	54	51.7
	i	NE			52.2
	i	Z			53.2
	S	Z		55	11
iP:Compression					
20.	iP	NEZ	20	06	58.6
	i	E			59.1
	e	E			13.2
	iP:S,W,Compression				
20.	iP	NZ	20	35	57.7
	i	NZ			58.1
	iS	EZ		36	16.4
	i	N			16.8
iP:Compression					
20.	iP	Z	22	47	39.3
	i	NE			39.5
	iS	Z			59.3
	iP:Dilatation				
20.	iP	EZ	23	09	48.7
	i	N			48.9
	i	Z		10	26.9
	i	Z			59.4
iP:E,Dilatation					
20.	e	Z	23	11	36
21.	iP	NZ	00	59	25.2
	e	E			27
	e	N			36
	i	Z			38.0
	i	N			56.4
	iP:S,Dilatation 42 S.,173 E. South Is.; New Zealand. h:60km ca. H=00 46 56 USCGS				
21.	iP	NEZ	03	31	50.1
	S	NE			32 10
	iP:S,E,Dilatation				
21.	eP	Z	08	27	17
	(cont.)				

Date	Phase	Comp.	Time(GMT)		
			h	m	s
continued.					
20.	e	Z	08	28	34
	e	Z			54
	eL	NE	09	06	04
	Mag. 5 3/4 (Matsushiro) 36 N.,4½ E. Northern Algeria. H=08 13 31 USCGS				
21.	eP	Z	09	40	49
	38 N.,42 E. Turkey. H=09 29 15 USCGS				
21.	iP	NEZ	09	49	41.1
	eL	N			10 13.6
	iP:N,W,Compression 20 S.,178½ W. Fiji Is. h:60km ca. H=09 39 26 USCGS				
21.	P	NEZ	17	29	09
	i	Z			42.8
	52 N.,175 W. Aleutian Is. H=17 21 59 USCGS				
21.	iP	NEZ	17	43	05.9
	S	NEZ			09.3
	iP:N,E.				
21.	iP	Z	19	28	55.9
	i	N			56.1
	i	E			29 00.3
	i	NZ			01.2
	iP:Dilatation				
21.	eP	Z	22	50	01
	i	Z			02.0
	i	NE			02.2
	iPcP	EZ			52 56.7
	eL	E			58 06
	eL	N			16
	eL	N	23	00	33
e N 05 45 2½ N.,128½ E. Halmahera. H=22 43 11 USCGS					
21.	eP	Z	23	54	48
	i	Z			56.1
	iPcP? Z 35 49.2 40½ N.,72 E. Kirghiz,S.S.R. H=23 25 43 USCGS				
21.	iP	NZ	25	48	01.2
	i	E			01.3
	iS	NEZ			05.3
	iP:N,Dilatation				

Date	Phase	Comp.	Time(GMT)			Date	Phase	Comp.	Time(GMT)		
			h	m	s				h	m	s
22.	iP i i i e	Z N E Z Z	01	04	44.2 44.8 45.4 18.7 50	22.	P i e e i	Z EZ Z N Z	16	03	59 59.5 04 31 33 37.5
	iP:Dilatation					22.	iP i S	NEZ Z NE	19	21	02.2 15.0 31
22.	eP e e	Z E Z	05	51	44 49 32 04	22.	eP i e e	Z E Z NE	23	15	12 13.1 51 54
							iP:N,W,Compression				
22.	eP i i i e	Z N E Z N	05	55	34 Aleutian Is. H=05 28 19 USCGS	22.	eP i e e	Z E Z NE	23	15	12 13.1 51 54
							iP:Compression 36 N., 70 E. H=02 09 42 Afghanistan USCGS				
22.	eP e e i i e	NEZ E Z N Z N	05	36	20 27 50 51 52.1 54	23.	iP i e e e	Z NE EZ N E	02	18	44.7 45.3 19 32 57 59
							iP:Compression 36 N., 70 E. H=02 09 42 Afghanistan USCGS				
22.	iP i i i e i e	Z N EZ NZ E Z N	05	41	05 1 07.5 09.0 10.3 27.0 32 37.9 46	23.	eP i e e e	NZ N E Z Z	07	47	09 21.0 25 30
							39 N., 20 E. H=07 34 30 Greece. USCGS				
22.	eP i i e e e i	Z E E N E Z N	05	52	25 27.5 37.0 45 56 59 53 01.7	23.	P e	Z E	08	00	54 35
							39 N., 20 1/2 E. H=07 47 51 Greece. USCGS				
22.	P i e e	Z NE E Z	07	06	23.4 24.0 07 36 08 44	23.	eP e i e e iL	NZ Z E N E N	08	14	54 15 07 16.5 51 17 46 18 49 20 07
							23 1/2 N., 121 1/2 E. H=08 10 23 Formosa. USCGS				
22.	eP e i eL i	Z E Z E E	08	26	04 15 23.8 29 41 32 34	23.	P i i S	EZ N N NEZ	08	26	06 07.7 10.5 27
22.	iP i i	Z E N	08	44	17.7 18 S., 179 1/2 W. Fiji Is. H=03 34 11 h:600km ca. USCGS	23.	P Z, eP N i	N N	09	16	25. 28.5
22.	iP i iP:E,Dilatation	EZ N	13	36	27.8 28.0	23.	iP e iS	NEZ E NZ	09	24	14.8 34 37 (cont.)

Date	Phase	Comp.	Time(GMT)			Date	Phase	Comp.	Time(GMT)		
			h	m	s				h	m	s
						24.	iP i i i e e	NEZ Z N E E Z	09	51	15.0 22.4 22.6 23.0 38 48
							iP:S,E,Dilatation 34 1/2 N., 139 1/2 E. Near south coast of Honshu, Japan. H=09 23 37 h:100km ca. USCGS				
22.	iP i	NZ E	11	41	25.0 25.1	24.	iP i i i e	NZ Z N E Z	09	04	25
							iP:S,Dilatation 19 S., 178 W. Fiji Is. H=11 31 04 h:500km ca. USCGS				
23.	eP i i i iPP eS e eL eL	Z N EZ N Z E N E	16	13	10 11.2 13 14 16.0 45.0 19 43 20 52 22 53 23 07	24.	eP i iS iP:Dilatation	NZ Z NE NE	09	04	25
23.	eP i e e i	Z N E N N	21	05	09 15.0 48 49 56.4	24.	iP Z,P N i e e iP:Compression	Z E N N	15	39	07.9 08.2 45
23.	P S	NZ NE	21	28	57.7 11.3	24.	iP iS i	NEZ EZ NZ	20	55	26.6 44.3 51.4
23.	iP i i i e iP:W,Compression	EZ N Z Z Z	22	15	52.2 52.3 55.0 16 10.0 40	24.	iP i e iS? i i e e eSOS? eSS iSS isSS? eL eL L	NEZ N Z N E E N Z E Z N	21	45	34.8 47 08.1 09.0 10.5 30 48 23 49 30 51 02 26 25 52 17.8 24 32 54 41 55 55 44 50 56 40 57 57 22 00 52 56
24.	P i e	NEZ N E	03	17	17.0 22.1 41						

Date	Phase	Comp.	Time(GMT)
			h m s
continued.			
iP:N,W,Compression Mag. $6\frac{1}{4}$ - $6\frac{3}{4}$ (Matsushiro) $7\frac{1}{2}$ S., 156 E. Solomon Is. H=21 37 04 USCGS			
24.	iP Z,P E		22 36 38.2
	i E		39.8
	i N		55.0
	i EZ		57.3
	i Z		59.8
	o NEZ		37 28
iP:Dilatation			
25.	P	NZ	01 55 57
	i N		57.7
	i Z		58 03.8
	i N		09.0
	i NE		14.2
25.	aP	EZ	04 00 56
	e E		01 10
	e Z		23
	i N		30.9
25.	iP	NEZ	04 17 18.9
	iS NEZ		38.4
iP:N,W.			
25.	P	Z	04 34 50.6
	i NEZ		51.9
	S NEZ		35 12
P:Compression			
25.	iP	NEZ	05 58 07.4
	iS NE		23.5
iP:S,E,Dilatation			
25.	iP	Z	10 04 01.5
	e Z		07
	e N		14
	i Z		18.3
	e E		10.1
iP:Compression			
25.	eL	E	12 57 43
11 N., 124 E. Cebu, Philippine Is. H=12 45 44 USCGS			
25.	iP	EZ	13 57 18.8
	i N		19.2
	i NEZ		29.2
	i Z		56.4
	i E		58 24.1
	i N		26.6
iP:W,Compression			

Date	Phase	Comp.	Time(GMT)
			h m s
25.	iP	Z	21 04 09.4
	i E		12.8
iP:Compression 7 S., 154 E. Solomon Is. h:300km ca. USCGS H=20 56 05			
25.	aP?	NZ	21 06 27
	i N		08 54.3
	i E		35
	L E		52
	e E		
25.	iP Z,P N		23 38 59.7
	i E		39 00.2
	i Z		23.4
	eL E		00 06 46
iP:Dilatation			
26.	P?	Z	01 15 07
	eL? E		16 40
26.	iP	NEZ	01 14 52.2
	i N		38.0
	i Z		41.6
	i E		44.0
	i E		54.8
	i N		15 52
	i Z		16 28.5
iP:S,W,Dilatation $2\frac{1}{2}$ S., 128 E. Ceram Sea. H=01 06 23 USCGS			
26.	iP	Z	02 15 51.0
	i N		51.6
	i E		55.1
	i Z		56.6
	i Z		16 59.8
	e E		17 31
	iPcP	Z	18 10
	eS E		21 20
	eL Z		24 10
	iL E		12
	eL Z		26 45 ca
	iL E		27 39
iP:Compression Mag. $5\frac{1}{2}$ - $5\frac{3}{4}$ (Matsushiro) 1 S., 133 E. New Guinea. H=02 08 31 USCGS			
26.	iP	NEZ	03 15 48.7
	i E		49.4
	iS NE		16 19
	i Z		21
iP:N,W,Compression			
26.	P	NEZ	06 44 06
(cont.)			

Date	Phase	Comp.	Time(GMT)
			h m s
continued.			
	i	N	06 44 31.1
	e	E	54 38
	eL	E	07 02 13
	eL E		09 15
P:N,Compression 20 S., 174 W. Tonga Is. H=06 32 36 USCGS			
26.	iP	Z	08 21 56.4
	i NE		56.8
	eS NE		22 14
iP:Compression			
26.	iP	Z	10 05 27.7
	i NE		28.4
	e E		42
	e Z		57
	iS? N		06 32.8
	i EZ		44.5
	i Z		07 13.9
26.	iP	NZ	18 48 39.1
	i E		39.5
iP:N,Compression			
26.	iP	Z	23 36 13.6
	i NEZ		14.7
	iP	Z	37 26
	iPcP	Z	38 50.4
	i Z		39 32.6
	iS E		41 39
	iScP	Z	42 21
	iPcS	Z	34.3
	e E		52
	i N		57.4
	iL E		44 14
	iScS	E	46 36.7
	iL E		47 17
iP:Compression Mag. $6\frac{1}{4}$ - $6\frac{1}{2}$ (Matsushiro) $51\frac{1}{2}$ N., 178 W. Aleutian Is. H=25 29 25 USCGS			
27.	iP	NEZ	00 15 59.2
	i Z		14 15.4
	i E		13.9
	iPcP	Z	16 33.1
	S? Z		19 59
iP:S,W,Compression $51\frac{1}{2}$ N., 178 W. Aleutian Is. H=00 07 10 USCGS			
27.	iP	NZ	03 35 34.7
	i E		35.1
	iS E,S N		47.0
iP:N,Dilatation			

Date	Phase	Comp.	Time(GMT)
			h m s
27.	iP	NEZ	03 46 03.5
	i Z		12.4
	i E		21.5
	eS? NE		29
iP:E,Compression			
27.	iP	EZ,P N	08 16 51.5
	i N		53.3
	i E		17 03.5
	e Z		04
	eS? E		34
	ePP Z		18 02
	i E		54.3
	ePcP EZ		19 28
	i Z		39.6
	i N		40.4
	e Z		21 16
	S E		22 19
	ePcS or		
	eScP Z		23 12
	eL E		24 52
	L N		25 16
iP:W,Compression Mag. 6 - $6\frac{1}{2}$ (Matsushiro) $51\frac{1}{2}$ N., 178 W. Aleutian Is. H=08 10 03 USCGS			
27.	eP	Z	09 07 50
	i Z		08 01
$30\frac{1}{2}$ S., $179\frac{1}{2}$ W. Kermadec Is. H=08 56 00 USCGS			
27.	iP	Z	09 14 54.3
	e E		15 02
	i E		16 48
	ePPP E		18 18
	e E		22 00
	iL E		30 50
	eL E		40 31
iP:Compression $6\frac{1}{2}$ S., $102\frac{1}{2}$ E. Off south coast of Sumatra. H=09 05 25 USCGS			
27.	eP	NE,P Z	14 06 16
	7 S., $156\frac{1}{2}$ E. Solomon Is. h:150km ca. USCGS H=13 57 56		
27.	iP	NEZ	14 06 59.3
	ipP Z		07 22.3
	iS? Z		46.9
	iPcP Z		08 33.1
	eL E		19 51
iP:E,Dilatation			

Date	Phase	Comp.	Time(GMT)			
			h	m	s	
27.	iP	Z	14	31	45.3	
	i	E			46.2	
	i	E	33	11.8	19	
	iPcP	Z	40	07		
	e	E	44	32		
	eL	E				
iP:Compression 7 S., 156 E. h:150km ca. H=14 23 29 Solomon Is. USCGS						
27.	iP	Z, P NE	15	04	40.8	
	i	Z			46.9	
	i	E	05	36.7		
	iPcP	Z	06	14.8		
	iP:Dilatation					
	7 S., 156 E. Solomon Is. h:150km ca. H=14 56 22 USCGS					
27.	iP	NEZ	15	21	10.6	
	i	EZ			14.8	
	S?	E			20	
	i	N			22	
iP:S,E,Dilatation						
27.	iP	Z, P E	23	13	06.6	
	i	N			07.3	
	i	Z			19.9	
	i	N			23.7	
	ePP	Z	14	33		
	eS	E	19	11		
	iL	E	21	40		
	iP:Compression 2 N., 123 E. H=23 05 49 Celebes Sea. USCGS					
	28.	eL	NE	08	31	34 ca.
28.	iP	EZ	08	37	25.8	
	i	N			26.2	
	i	EZ			33.2	
	i	N			49.7	
	S	E			51	
	e	E			55	
	i	NZ			57	
	i	N			58.2	
	iP:W,Compression					
	28.	P	Z	09	36	44.9
i		NZ			46.0	
i		E	37	21.1		
i		E	38	03.7		
eS		E			37	
e		N			41	
eL		NE	39	29	ca.	
44 1/2 N., 147 1/2 E. H=09 34 12 Kurile Is. USCGS						

Date	Phase	Comp.	Time(GMT)			
			h	m	s	
28.	eP	Z	14	31	05	
	i	E			08.4	
28.	iP	Z	14	56	34.5	
	i	NE			35.7	
	i	N			50.3	
	i	Z			50.8	
	i	N	57	22.2		
	i	Z			29.5	
	eS?	E	58	32		
	e	N			46	
	eL	NE	59	04	ca.	
	iP:Dilatation					
	28.	P	Z	17	06	28
i		NE			30	
e		Z			52	
e		E	07	16		
28.	iP	NEZ	17	26	52.1	
	i	Z			28 17.2	
iP:S,W,Dilatation						
28.	iP	NEZ	17	35	02.0	
	i	E			03.7	
	iS	NEZ			19.2	
	iP:N,W,Compression					
28.	eP	Z	23	13	16	
	i	N			16.8	
	e	Z			23	
	i	E			24.4	
	i	N	15	14.2		
	ePcP?	Z			31	
	eS	N	19	14		
	i	E			16	
	eL	N			22 12	
	L	E			18	
	iL	N			23 59	
	3 S., 142 E. H=23 05 39 New Guinea. USCGS					
	29.	eP	Z	00	10	51
		i	Z			12 23.4
e		Z			14 10	
e		E			14	
i		N			18.0	
iP:Dilatation						
29.	eP	NEZ	04	20	07	
	i	E			23.7	
	iS	N			32	
	i	Z			38.1	
	iP:Dilatation					
29.	iP	NEZ	05	28	29.2	
	i	N			37.7	
	i	NE			40	
	iP	Z			50.3	
	e	N			54	
	(cont.)					

Date	Phase	Comp.	Time(GMT)			
			h	m	s	
continued.	iPP	E	05	29	17.3	
	i	E			30 18.3	
	iPcP	Z			31 46.5	
	eS	N			33 13	
	eS	E			36	
	e	E			34 33	
	iP:N,E,Compression 14 N., 120 E. Near south coast of Luzon, P.I. h:150km ca. H=05 22 53 USCGS					
	29.	iP	EZ	05	51	49.7
		i	N			49.9
		i	NEZ			52 04
		i	Z			12.7
eS?		E	53	55		
e		N	54	14		
e		N			52	
eL		E	55	27		
iP:E,Compression						
29.		iP	NZ	05	56	29.2
	i	E			29.7	
	i	EZ			31	
	i	NZ			31.7	
	iS	N			48	
	i	E			49	
	iP:N,Compression					
29.	iP	Z	08	42	05.9	
	e	E			09	
	e	N			50 56	
	eL	N			54 40	
	eL	E			56 17	
	iP:Compression 23 1/2 N., 94 1/2 E. Western Burma. H=08 34 30 USCGS					
29.	iP	Z	09	00	26.5	
	i	N			26.7	
	i	E			27.4	
	iP:Dilatation					
29.	e	N	11	24	47	
29.	iP	NZ, P E	20	07	12.4	
	i	Z			30.8	
	i	Z	09	22.2		
	P:N,E,Compression					
29.	iP	EZ	23	36	07.0	
	i	N			07.9	
	i	Z			14.7	
	i	Z			15.6	
	(cont.)					

Date	Phase	Comp.	Time(GMT)			
			h	m	s	
continued.	i	Z	23	37	20.3	
	i	N			24	
	e	E			29	
	eL	N	42	41	ca.	
	eL	E			54	
	iP:W,Compression					
	29.					
29.	PP	Z	23	58	59	
	ePP	N			59 52.1	
	SPP	N	00	09	06	
	SS	NE			14 04	
	e	N			17 44	
	eL	E			25 54	
	L	E			29 27	
	L	E			31 49	
	L	N			32 56	
	L	Z			35 20	
30 N., 9 W. H=23 40 12 Morocco. USCGS						

Takeshi Honda
Director.