

1958 January

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Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
2	Epc: 44°N, 150°E O: 21-12-05					5	Epc: 2°N, 123°E O: 08-05-11 h: 540km ca., *M: 6½				
✓	CC	+P	21	16	15	✓	CT	+P	08	09	35
✓	PK	eP	17	37				sP		11	44
✓	LC	+P	19	08				S		13	09
✓	KM	+P	20	07		✓	ZS	eP	10	31	
✓	LS	e(P)	51					ipP		11	55
								iS		14	49
								i		17	25
3	Epc: 22°S, 64°E O: 17-47-10, M: 5½					✓	KM	+P	10	39	
✓	LS	-P	17	57	05			pP		12	00
		eS	18	05	02	✓	NK	P	10	40	
✓	KM	eP	17	57	20			pP		12	03
✓	LC	eP	58	19				eS		15	06
		S	18	07	21	✓	LC	eP	11	46	
✓	NK	eP	17	58	55			S		17	06
✓	ZS	eP	59			✓	PK	eP	11	47	
✓	PK	eP	59	14				iS		17	08
✓	CC	+iP	54					i		19	59
						✓	YC	eP	12	00	
						✓	LS	+P		06	
								PP		14	00
								iS		17	42
						✓	CC	SS		21	12
								-P		12	15
								pP		13	44
4	Epc: 27°N, 92°E O: 08-27-57, M: 4½					5	Epc: 55°N, 122°E O: 11-30-48, M: 6¼				
✓	LS	iP	08	28	49	✓	SW	eP	11	33	21
		iS	29	23		✓	CC	eP		50	
✓	KM	eP	30	20				-iP		52	
		eS	32	06				iPP		34	03
✓	LC	eP	31	07		✓	PK	+iP		43	
		eS	33	35				S		37	52
✓	SA	eP	31	45		✓	DR	P		34	52
✓	PK	eP	33	12		✓	TU	eP		52	
✓	CC	eP	34	21		✓	PT	eP		52	
						✓	YC	eP		35	31
						✓	WW	eP		47	
						✓	YM	eP		49	
						✓	LC	-iP		59	
4*	Epc: 6°S, 133°E O: 13-05-24										
✓	KM	+P	13	13	17						
✓	PK	eP	14	08							
✓	LC	+P	18								
		eS	21	15							
✓	LS	+iP	14	42							
		eS	22	00							

P.S. Epc., M, etc. with asterisk are from foreign reports. (mostly of USCGS. Pasadena and Moskva.)

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Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
5	✓ LC	S	11	40	14	7	*Epc: 38° 0' N, 70° 33' E					
	✓ SN	eP		36	02		O: 06-05-10					
	✓ NK	eP			07		h: 5 km, M: 6 1/4					
		-iP			09							
		iPP			42							
	✓ SA	iP			10			✓ LS	P	06	09	39
	✓ ZS	eP			15				iPP			57
		iP			18			✓ LC	e(P)			10 55
		PcP			39 55				S			15 48
		S			40 41			✓ KM	P			11 27
	✓ CT	eP			37 32			✓ CC	S			16 31
	✓ KM	-P			32				e(P)			24 17
	✓ LS	-iP			35							
		PP			38 57							
	eS			43 05								
	ISS			45 09								
6	Epc: 37° 1/2' N, 72° 1/2' E					9	Epc: 45° 1/2' N, 101° E					
	O: 01-54-43, M: 4 3/4						O: 01-20-00, M: 4 1/4					
	✓ LS	P	01	58	45			✓ YM	e(Pn)	01	21	25
		S		02	01 56				S			42
		SS			02 18			✓ PK	eP			22 50
	✓ YM	eP	01	59	13			✓ CU	eP			23 03
	✓ LC	eP	02	00	09			✓ LS	+P			24 08
		S			04 33			✓ ZS	eS			27 28
	✓ KM	e(P)			00 37				eP			24 50
		eS			05 24				eS			28 45
	✓ NK	e(P)			02 00							
	✓ CC	P			16							
	✓ ZS	eP			19							
6	Epc: 25° 3/4' N, 96° 3/4' E					9	Epc: 5° 1/2' S, 146° 1/2' E					
	O: 11-24-11, M: 5 1/4						O: 11-14-02, h: 120km ca., *M: 6 1/2					
	✓ KM	-Pn	11	25	36			✓ ZS	-P	11	21	55
		P			58				esP			22 34
		Sn			26 42				eS			28 13
	✓ LS	iS			27 09			✓ NK	eP			22 12
		(Pn)			25 50				esP			54
		iSn			27 05			✓ CU	S			28 45
		S			45				eP			23 16
	✓ LC	eP			04			✓ LS	sP			58
	✓ TU	eP			28 49			✓ LC	iS			30 41
	✓ NK	-P			51				eP			23 40
		eS			32 38				sP			24 23
	✓ PK	eP			29 04			✓ LS	S			31 25
	S			33 01			eP			24 22		
✓ ZS	-iP			29 09			sP			25 05		
	S			33 12			eS			32 42		
	iS			17								
✓ CC	eP			30 15								
9	Epc: 44° 3/4' N, 85° E					9	Epc: 45° 1/2' N, 101° E					
	O: 17-39-30, M: 5 1/4						O: 01-20-00, M: 4 1/4					
	✓ YM	eP	17	41	50			✓ YM	e(Pn)	01	21	25
	✓ LS	+iP			43 14				S			42

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
9	✓LS	eS	17	46	10	11	✓PK	eP	13	31	44
		iScS		55	21			i		32	32
	✓LC	eP		43	23			S		42	16
		iS		46	26		✓KM	P		31	58
	✓YC	eP		43	32			i		32	47
	✓CU	+P		44	08			S		42	40
		eS		47	51		✓CU	P		32	04
	✓TU	eP		44	23			i			52
	✓TY	eP			24			i		42	16
	✓LF	eP			28			iS			52
	✓PK	eP			39			i		43	59
		eS		48	48		✓LC	eP		32	14
	✓KM	P		44	46			i		33	03
	✓NK	eP		45	31			i		42	19
		eS		50	20			S			51
	✓CC	P		45	32						
	✓ZS	eP			49						
		eS		50	52						
	✓CT	eS			59						
10	Epc: 43°N, 147°E										
	O: 22-57-28										
	✓CC	e(P)	23	01	09		✓PK	-iP	00	10	11
	✓PK	P		02	29			pP			37
		S		06	39			S		16	24
	✓NK	e(P)		02	47			sS		17	05
	✓LC	eP		04	02		✓ZS	-iP		10	33
		eS		09	19			pP			58
	✓CU	eP		04	25			PPP		13	03
		S		09	58			S		17	06
	✓LS	e(P)		05	47			PS			33
								sS			52
							✓NK	SS		20	15
								-iP		10	39
								pP		11	06
							✓LC	-iP			29
								pP			56
								S		18	45
11	*Epc: 23°S, 177°W										
	O: 13-18-47, M: 6¼										
	✓ZS	eP	13	31	01		✓CU	sS		19	27
		i			48			-iP		11	54
		S		40	49			PcP		12	46
		SKS			58			iS		19	33
		i		41	51		✓CT	i		20	21
	✓CT	eP		31	12			-P		11	54
		i			59			pP		12	21
		iS		41	08		✓KM	-P			27
	✓NK	P		31	14			pP			56
		i		32	02			S		20	36
		S		41	14		✓LS	i		21	21
		i		42	18			eP		12	54
	✓CC	iP		31	27			pP		13	23
		i		32	17			iS		21	25
								sS		22	14

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
13	LS	iScS	00	22	36	13	CC	iP	20	22	27
13	*Epc: 11°S, 166°E O: 02-54-37 h: 100km ca., M: 6 $\frac{1}{4}$					14	*Epc: 29°S, 179°W O: 07-20-25, h: 350km ca.				
✓	ZS	+iP	03	04	39	✓	ZS	e(P)	07	32	15
		oP		05	08	✓	CT	-P			19
		eS		12	51	✓	NK	P			27
✓	CT	+iP	04	53		✓	KM	eP	33	04	
		pP	05	20		✓	CU	P			12
		sP		32		✓	LC	e(P)			25
		S	13	17		✓	LS	S	43	23	
		sS		57							44
✓	NK	+iP	04	56							
		S	13	25							
✓	CC	+iP	05	19							
✓	PK	P		35							
		pP	06	04		14	Epc: 36° $\frac{1}{2}$ N, 106°E O: 09-50-28, M: 2 $\frac{1}{2}$				
✓	KM	+iP	05	54		✓	TS	e(Pn)	09	51	01
✓	CU	+iP	06	00				P			05
		PcP		09				(Sn)			22
		pP		27				S			24
		eS	15	27		✓	LC	Pn			00
		iSKS		50				P			03
		sS	16	08		✓	YC	(P)			26
✓	LC	P	06	14				eS			40
		pP		43		✓	SA	e			40
		S	15	52				S	52	03	
✓	LS	+iP	06	58		✓	CU	ePn	51	56	
								e(S)	52	58	
13	Epc: 12°N, 92° $\frac{1}{2}$ E O: 20-14-30, M: 5 $\frac{3}{4}$					14	*Epc: 11° $\frac{1}{2}$ S, 165°E O: 14-51.2				
✓	KM	-iP	20	18	23	✓	PK	eP	14	42	02
		eS		21	24	✓	KM	eP			19
✓	LS	-iP		18	42	✓	CU	-P			27
		S		22	01	✓	LC	eP			40
		ScS		30	39						
✓	CU	-iP	19	21		15	*Epc: 16° $\frac{1}{2}$ S, 71° $\frac{1}{2}$ W O: 19-14-29 h: 100km ca., M: 7				
		iS	23	15		✓	CC	+PKP	19	34	10
		iSS		50		✓	PK	PKP			22
✓	CT	P	19	34		✓	PP	PP	38	22	
		iS	23	37		✓	ZS	-PKP	34	23	
✓	TS	P	20	03				pPKP			43
✓	LC	iP		08				PP	38	51	
		iS	24	37		✓	LS	-iPKP1	34	24	
		ScS	30	59				ipPKP1			43
✓	SA	eP	20	15				iPKP2	35	24	
✓	NK	eP		51							
		S	25	56							
✓	YC	P	20	57							
✓	ZS	eP	21	02							
		S	26	16							
✓	PT	eP	21	03							
✓	TU	eP		11							
✓	PK	-iP		24							
		ePP	22	44							
		iS	23	52							
		ScS	31	38							

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
15	✓LS	iPP	19	38	53	16	✓KM	+iP	11	15	10	
		iSKKS	45	30				cS	2	38		
	✓NK	(PKP ₁)	34	25			✓CU	P	15	15		
		PKP ₂	35	28				eS	24	50		
		iPP	38	54			✓LC	P	15	33		
		iSKKS	45	32			✓LS	+P	16	12		
	✓CU	-iPKP ₁	34	29				eS	26	36		
		ipPKP ₁	49									
		iPKP ₂	35	31		16	Epc: 38°N, 102° ⁰¹ / ₂ E					
		iPP	39	13			O: 23-54-20, M: 4 ¹ / ₂					
		iSKKS	45	57								
	✓LC	ePKP ₁	34	29			✓WW	iP	23	54	31	
	✓KM	-iPKP ₁	32					i(S)	39			
		ipPKP ₁	52				✓SN	eP	49			
		ePKP ₂	35	50				(S)	55	01		
		PP	39	39			✓LC	iP _n	02			
		iSKKS	46	17				iP	04			
	✓WW	ePKP	34	30			✓YC	iS	33			
	✓CT	ePKP	32					eP	25			
		ePP	39	41				S	56	08		
	✓SA	ePKP	34	37			✓TS	eP	55	45		
								eS	56	44		
15	Epc: 14°S, 167° ⁰¹ / ₂ E						✓YM	(P)	55	54		
	O: 22-15-44, M: 6 ¹ / ₂							eS	56	53		
							✓SA	e	57	12		
							✓PT	P	56	27		
								e(S)	57	50		
	✓ZS	eP	22	26	10	17	Epc: 1°S, 127° ⁰¹ / ₂ E					
	✓CT	+P	21				O: 04-14-10, *M: 6-6 ¹ / ₂					
		S	34	57				✓NK	eP	04	20	53
	✓NK	(P)	26	25					eS	26	15	
		iS	35	06			✓CU	e(P)	21	29		
	✓CC	+iP	26	51				S	27	21		
	✓PK	+iP	27	07			✓PK	e(P)	21	59		
		eS	36	29			✓LC	eP	22	07		
	✓KM	+iP	27	21				iS	28	28		
		PP	30	11			✓LS	eP	22	31		
		iS	36	53				eS	29	13		
	✓CU	+iP	27	28								
		PP	30	18								
		iS	37	03								
	✓LC	P	27	41								
		S	37	34								
	✓LS	+iP	28	22								
		eSKS	38	43								
		eS	48									
16	Epc: 14°S, 167° ⁰¹ / ₂ E					17	* Epc: 52°S, 139° ⁰¹ / ₂ E					
	O: 11-03-32						O: 07-15-38, M: 6 ¹ / ₂ -6 ³ / ₄					
	After shock of Jan, 15, 22h							✓KM	eP	07	28	11
									eS	28	29	
	✓CC	P	11	14	40		✓ZS	eP	28	11		
							✓CU	-P	30			
								eS	39	00		
							✓LS	eP	28	50		

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
19	Epc: 24° $\frac{3}{4}$ N, 122° $\frac{1}{2}$ E O: 09-10-58, M: 4 $\frac{1}{2}$			20	✓KM	e(Pn) P iS	02 19 03 14 20 15
✓ZS	-iP		09 12 42	✓LS	e(P)		02
	S		14 02	✓LC	eP		21 09
✓NK	P		13 06	✓NK	eP		22 25
	eS		14 43				
✓CT	i		38				
✓PK	eP		55	20	*Epc: 30° $\frac{1}{2}$ S, 71° $\frac{1}{2}$ W O: 02-19-53, M: 6 $\frac{1}{2}$		
✓CU	e		15 10	✓ZS	ePKP1		02 40 01
✓KM	e(S)		18 20		ePP		45 04
✓KM	e(P)		15 15	✓PK	ePKP1		40 02
✓CC	P		26		ePKP2		41 12
✓LC	e(P)		36		ePP		45 04
✓LS	e(P)		16 57	✓NK	ePKP1		40 04
				✓KM	ePKP1		41 30
19	*Epc: 1° $\frac{1}{2}$ N, 79° $\frac{1}{2}$ W O: 14-07-27 h: 60km ca., M: 7 $\frac{1}{2}$				ePKP2		41 30
✓CC	PKP		14 26 34		PP		45 17
	PP		26 47	✓LC	PKP1		40 06
	PKS		30 06		ePKP2		41 31
✓PK	PKP		26 45		PP		45 22
	PP		29 27	✓CU	SKKS		52 23
	PKS		30 25		PKP1		40 05
✓ZS	PKP		26 53		ePKP2		41 50
	PP		29 58		PP		45 40
✓NK	-PKP		26 54		SKKS		52 32
	PP		30 02	20	Epc: 15° $\frac{1}{2}$ N, 121°E O: 07-12-55		
✓CU	+PKP		27 07	✓CT	eP		07 15 35
✓LS	+PKP1		07		eS		17 37
	+PKP2		15	✓ZS	+P		16 49
	PP		30 46		S		19 56
✓CT	+PKP		27 15	✓NK	eP		17 02
✓KM	PKP		15		eS		20 17
				✓KM	eP		17 30
19	*Epc: 1° $\frac{1}{2}$ N, 79°W O: 14-43-24 h: 60km ca., M: 6 $\frac{3}{4}$				eS		21 08
✓CC	PKP		15 02 35	✓CU	P		17 52
	PP		04 50		eS		21 49
	PKS		06 14	✓SA	e(P)		17 57
✓LS	ePKP		03 10		eS		21 56
✓CT	PKP		23				
				22	Epc: 23° $\frac{3}{4}$ N, 121° $\frac{1}{2}$ E O: 18-28-57, M: 5 $\frac{1}{2}$		
20	Epc: 22° $\frac{1}{2}$ N, 98° $\frac{1}{4}$ E O: 02-17-40, M: 4 $\frac{1}{2}$			✓ZS	eP		18 39 44
					S		32 06
				✓CT	eP		30 51

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Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
22	✓CT	eS	18 32 18	23	✓LC	iP	02 40 34
	✓NK	eP	31 06			iS	45 39
		eS	32 47			sS	46 39
	✓SA	eP	35		✓CT	-P	40 44
	✓TY	eP	49		✓CU	-iP	56
	✓PK	+iP	58			pP	41 26
		iS	36 14			PP	42 20
	✓CU	P	32 59			iS	46 17
	✓KM	+P	33 00		✓KM	-iP	41 32
	✓TU	eP	08			pP	42 04
	✓PT	eP	28			PP	43 18
	✓LC	iP	30			S	47 24
		iS	37 07			sS	48 26
	✓YC	eP	33 31		✓LS	-iP	42 18
		eS	37 06			iS	48 50
	✓CC	P	33 36				
	✓SN	eP	48				
	✓WW	eP	49	23	Epc: $30^{\circ}\frac{1}{2}N$, $84^{\circ}\frac{1}{4}E$		
	✓LS	+iP	34 49		O: 05-30-10, M: $4\frac{3}{4}$		
		S	39 30		✓LS	+iP	05 31 45
					✓CU	eP	34 11
22	*Epc: $13^{\circ}\frac{1}{2}N$, $90^{\circ}E$					eS	37 21
	O: 21-41-06				✓LC	eP	34 14
	✓KM	eP	21 45 23			eS	37 26
	✓LS	e(P)	55		✓KM	+P	34 15
		S	49 44		✓PK	eP	36 03
	✓CU	P	46 22			eS	40 37
		S	50 39		✓CC	eP	37 03
23	Epc: $44^{\circ}\frac{1}{2}N$, $146^{\circ}E$			24	Epc: $56^{\circ}\frac{1}{2}N$, $116^{\circ}\frac{1}{2}E$		
	O: 02-34-14				O: 04-35-54, M: $5\frac{1}{2}$		
	h: 150km ca., M: $5\frac{3}{4}$				✓YM	eP	04 39 00
	✓SW	eP	02 37 13		✓CC	P	13
	✓CC	-iP	33		✓PK	P	49
		S	40 15			eS	42 53
	✓PK	P	38 58		✓TU	eP	39 52
		S	42 53		✓TY	eP	40 24
		sS	43 52		✓LC	P	51
		S&s	49 58		✓NK	eP	41 14
	✓ZS	-iP	39 09		✓ZS	P	24
		pP	39			eS	45 48
		S	43 12		✓LS	eP	42 24
		sS	44 11				
	✓TU	eP	39 16	24	Epc: $56^{\circ}N$, $164^{\circ}E$		
	✓NK	-iP	19		O: 05-53-56, M: $6\frac{1}{4}$		
		pP	50		✓SW	eP	05 59 34
		sP	40 04		✓CC	P	40
		eS	43 30		✓PK	P	06 00 47
	✓SA	eP	40 17				

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Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
24	✓ PK	PP	06	02	07	24	✓ PK	sS	23	35	30
		S		06	20		✓ ZS	+P		27	45
	✓ ZS	P		01	23			pP		28	05
	✓ NK	eP			24			S		30	07
	✓ LC	P		02	09			sS			35
		PP		03	58		✓ NK	P		27	51
		S		08	47			pP		26	07
	✓ YM	eP		02	13			S		36	13
	✓ CU	-iP			43			sS			48
		PP		04	34		✓ LC	+P		28	11
		S		09	46			pP			32
	✓ CT	eP		02	49			ePP		30	38
		eS		09	56			S		36	53
	✓ KM	+P		03	18			sS		37	29
		PcP		04	26		✓ CU	+iP		28	40
	✓ LS	+iP		03	41			pP		29	00
		S		11	28		✓ LS	+P			19
								pP			41
								S		39	01
								ScS			20

24 Epc: $53^{\circ}\frac{1}{2}N$, $170^{\circ}\frac{1}{2}E$
O: 18-03-34, M: $5\frac{1}{2}$

✓ CC	iP	18	09	46
✓ PK	eP		10	55
	ePP		11	27
	eS		16	49
✓ ZS	-P		11	20
	S		17	37
✓ NK	eP		11	26
	eS		17	47
✓ LC	+P		12	16
	ePP		14	10
	S		19	14
	SS		22	47
✓ CU	+iP		12	43
	pP			51
	ePcP		14	00
	iS		20	05
✓ LS	+P		13	44
	S		21	59
	ScS		23	35

24 * Epc: $60^{\circ}N$, $152^{\circ}W$
O: 23-17-29
h: 60km ca., M: $6\frac{1}{2}$ - $6\frac{1}{2}$

✓ CC	+iP	23	26	21
	pP			40
	S		33	22
✓ PK	+P		27	14
	pP			33
	S		35	04

26 Epc: $13^{\circ}N$, $94^{\circ}\frac{1}{2}E$
O: 00-43-19

✓ KM	P	00	46	43
✓ LS	eP		47	18
✓ CU	eP			48
	eS		51	21
✓ CT	eS			38
✓ LC	+P		48	40
	S		52	57
	SS		53	55

26 * Epc: $47^{\circ}\frac{1}{2}N$, $154^{\circ}\frac{1}{2}E$
O: 06-42-13, M: $5\frac{1}{2}$ - $5\frac{3}{4}$

✓ CC	eP	06	46	53
✓ PK	eP		48	12
	eS		52	58
✓ LC	P		49	43
✓ CU	+iP		50	07
	eS		56	27
✓ KM	P		50	43
✓ LS	+P		51	23

26 * Epc: $49^{\circ}\frac{1}{2}N$, $155^{\circ}E$
O: 07-28-33, M: $5\frac{3}{4}$

✓ SW	eP	07	33	16
✓ LC	eP		38	08

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Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
30	✓ LS	PP	06 27 41	1	✓ CU	PP	18 25 50
		S	34 18		✓ LS	iPKP ₁	22 25
						PKP ₂	30
						PP	25 58
					✓ CT	PKS	26 33
						ePKP ₁	22 30
					✓ KM	PKP ₂	48
						iPKP ₁	32
						PKP ₂	51
						PP	26 24

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1 *Epc: 2°N, 79°W
O: 16-10-15, M: 6 $\frac{3}{4}$ -7

✓ CC	PKP	16 29 23
	PP	31 41
✓ PK	PKP	29 38
	iPP	32 05
	ePPP	35 11
	SKS	37 12
	i	50 06
✓ NK	PKP	29 44
	iPP	32 51
✓ LC	PKP	29 44
	PP	32 53
✓ ZS	PKP	29 45
	PP	33 01
	PKS	22
	PPP	36 08
✓ LS	+iPKP	29 59
	PP	33 29
	PPP	36 46
✓ CU	PKP	29 59
	iPP	33 30
	PPP	36 50
✓ KM	+PKP	30 06
	i	32 28
	PP	34 01
	SKS	37 15
✓ CT	+PKP	30 05
	PP	34 01

1 Epc: 10°N, 123°E
O: 19-31-31

✓ KM	-iP	19 36 41
	S	40 56
✓ PK	eP	37 38
	eS	42 47
✓ CC	P	38 10
✓ LS	eP	23
	S	43 50
✓ CT	i	40 27

1 *Epc: 1° $\frac{1}{2}$ N, 79°W
O: 20-45-45, M: 6 $\frac{3}{4}$

✓ CC	PKP	21 04 55
	PP	07 06
✓ PK	PKP	06 11
	PP	07 49
	PKS	08 40
	PPP	10 47
✓ LC	PKP	05 14
	PP	08 17
	i	13 47
✓ LS	PKP	05 32
	PP	08 45
	i	09 44
	i	12 09
	i	17 39
✓ CU	PKP	05 31
	i	42
	PP	08 56
✓ KM	PKP ₁	05 40
	i	55
	PKS	09 07
	PP	28
✓ CT	PKP	05 37
	i	53
	PP	09 33

1 *Epc: 2°N, 79°W
O: 18-02-39, M: 6 $\frac{1}{2}$

✓ CC	PKP	18 21 50
	PP	24 00
	i	25 04
✓ PK	ePKP	22 04
	ePP	24 42
	PKS	25 33
✓ LC	ePKP	22 16
	PP	25 19
✓ CU	PKP	22 24

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
1 Epc: $6^{\circ}\frac{1}{2}S$, $156^{\circ}\frac{1}{2}E$ 0: 22-00-14						3 * Epc: $32^{\circ}\frac{1}{2}N$, $56^{\circ}E$ 0: 19-27-12					
✓	PK	e	22	09	54	✓	LS	eP	19	33	34
✓	KM	eP		10	33			PP		34	29
		S		16	50			eS		38	29
✓	CU	eP		10	43			i		39	06
		S		19	07	✓	CU	eP		35	00
✓	LC	eP		11	02			e		41	10
		e		17	02						
		S		19	44						
✓	LS	P		11	45	4 * Epc: $6^{\circ}S$, $131^{\circ}\frac{1}{2}E$ 0: 02-16-00					
		S		21	06	✓	KM	+iP	02	23	53
								S		30	04
2 Epc: $48^{\circ}N$, $156^{\circ}E$ 0: 08-12-01 h: 80km ca., M: 6						✓	LC	+P		24	53
✓	CC	iP	08	16	34			eS		31	40
✓	PK	eP		17	49	✓	LS	eP		25	17
		(pP)		18	08			i			24
		eS		22	32			S		32	36
✓	ZS	P		18	09	5 Epc: $47^{\circ}\frac{1}{2}N$, $154^{\circ}E$ 0: 08-08-09, M: 5					
		PP		19	11	✓	CC	eP	08	12	43
		S		23	07	✓	PK	+P		14	00
		SS		24	59	✓	ZS	(P)		14	15
✓	NK	eP		18	17			S		19	06
		PP		19	31	✓	NK	+P		14	22
		eS		23	21			S		19	25
✓	LC	iP		19	20	✓	LC	+iP		15	32
		pP			34			PP		17	05
✓	CT	S		25	15			S		21	28
		+P		19	39	✓	CU	+iP		15	56
		pP			55			PP		17	33
✓	CU	S		25	49			iS		22	06
		+iP		19	46	✓	KM	+iP		16	31
		eS		25	58			i		21	31
✓	KM	+P		20	22			S		23	15
		pP			39	✓	LS	+iP		17	14
		S		27	06			ePP		19	06
✓	LS	+iP		21	00			S		24	30
		pP			23			ScS		27	05
		eS		28	17	2 * Epc: $27^{\circ}\frac{1}{2}N$, $127^{\circ}E$ 0: 20-53-06, h: 200km ca.,					
✓	ZS	e	20	54	40	6 Epc: $24^{\circ}\frac{1}{2}N$, $123^{\circ}E$ 0: 01-42-12 h: 60km ca., M: $4\frac{1}{4}$					
		i		56	03	✓	ZS	eP	01	43	55
✓	NK	eP		55	12	✓	NK	-P		44	17
✓	PK	e		56	42			eS		45	53
✓	CC	-iP			49						

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Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
6	✓CT	eP	01	44	20	7	✓CC	eP	07	04	07
		eS		46	00		✓CU	eP			53
	✓SA	S		48	52			eS		08	49
	✓PK	eP		46	08		✓LC	+P		05	01
	✓CU	eP		46	21			eS		09	05
		eS		49	37		✓KM	eP		05	08
	✓KM	eP		46	27		✓LS	eP		06	36
		sP			47						
		S		49	52						
	✓CO	eP		46	40						
	✓LC	iP			47						
		sP		47	08						
		eS		50	30		✓CU	iP	23	23	54
	✓LS	P		48	11		✓TS	eP _n		24	28
		sP			31			F			41
		eS		52	58		✓LC	P _n			45
								iP		25	05
								S _n			42
6	* Epc: 27° $\frac{1}{2}$ S, 178°W						✓SA	eP _n		24	50
	O: 16-00-12, h: 250km ca,							eS _n		25	49
							✓KM	eP _n			13
	✓ZS	eP	16	12	10			S		26	28
	✓CT	+P			16		✓WW	eP _n		25	16
	✓NK	+P			22		✓YC	eP		25	28
	✓CC	eP			38		✓LF	eP			34
	✓PK	+P	12	52			✓TY	eP			53
		epP		13	55		✓FL	eP		26	03
		eSKS		22	59		✓PT	eP			05
		eS		23	32		✓YM	eP			07
		sS		25	24		✓TU	eP			21
	✓KM	eP		13	01		✓LS	+iP			21
	✓CU	+iP			08			S		28	27
							✓CT	+iP		26	24
								S		28	36
7	* Epc: 3° $\frac{1}{2}$ N, 96° $\frac{1}{2}$ E						✓NK	eP		26	32
	O: 00-32-25							eS		28	50
							✓PK	eP		26	40
	✓KM	eP	00	37	33			eS		29	07
	✓LS	P		38	09		✓ZS	eP		27	01
		eS		42	42			eS		29	45
	✓LC	P		39	07		✓BR	eP		27	25
	✓PK	eP		40	11		✓CC	iP		28	16
								S		32	05
							✓SW	eP		28	44
7	Epc: 27°N, 128° $\frac{1}{2}$ E										
	O: 06-59-56										
	✓ZS	eP	07	01	52						
		eS		03	20						
	✓NK	eP		02	23						
		eS		04	17						
	✓PK	eP		03	51						
		eS		03	57						
9	Epc: 24° $\frac{1}{2}$ N, 90°E										
	O: 09-30-50, M: 5										
	✓LS	eP	09	32	22						
		i			38						
	✓KM	eP		33	43						
		eS		35	56						

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
9	✓ LC	-P	09 34 48	12	*Epc: 6° ¹ / ₂ N, 92°E		
		eS	37 54		O: 18-17-09		
	✓ CT	-P	35 48				
		eS	39 41		KM	-iP	18 21 53
	✓ NK	eP	36 35		LS	-P	22 29
		eS	41 10			i	23 10
	✓ PK	eP	36 41			S	26 25
		eS	41 17			ScS	33 07
	✓ ZS	eP	36 51		CU	-P	22 44
		eS	41 42			i	23 35
						S	26 51
						ScS	33 13
9	Epc: 13°N, 121°E				LC	-P	23 29
	O: 22-29-26, M: 5 ¹ / ₄				PK	-P	24 37
						i	25 27
	✓ CT	P	22 32 28			S	30 15
	✓ ZS	iP	33 42				
	✓ NK	+iP	55	12	Epc: 53°N, 174° ¹ / ₂ W		
		eS	37 29		O: 23-43-49		
	✓ KM	eP	34 15		h: 40km cu., *M: 6		
		eS	38 07		PK	+iP	23 52 24
	✓ CU	eP	34 39			PP	54 10
		i	35 36			eS	59 16
		iS	38 52		ZS	+iP	52 45
	✓ SA	P	34 48			sP	53 02
	✓ PK	+P	35 13			S	59 55
	✓ LC	-iP	14		NK	+iP	52 51
		PP	36 11			siP	53 08
		i	39 54			S	24 00 09
		S	40 02		LC	S	01 23
	✓ WW	eP	35 37		CT	+P	23 54 02
	✓ CC	eP	46			sP	18
	✓ LS	eP	58			S	24 02 18
		S	41 11		CU	+iP	23 54 03
		SS	43 01			sP	19
						eS	24 02 16
11	Epc: 9°S, 107° ¹ / ₂ E				KM	+iP	23 54 36
	O: 00-46-05, M: 5 ¹ / ₂					isP	51
	✓ KM	eP	00 52 52			erP	57 01
		eS	58 19			iS	24 03 22
	✓ CU	eP	53 35		LS	+iP	23 55 01
		eS	59 35			sP	16
		i	56			eS	24 04 06
	✓ ZS	eP	53 57			i	50
		eS	01 00 15			ScS	05 00
	✓ NK	eP	00 53 58				
		i	54 26	13	Epc: 27° ¹ / ₂ N, 92° ³ / ₄ E		
	✓ LS	P	53 54		O: 00-11-35, M: 5		
	✓ LC	eP	54 21		LS	+iP _n	00 12 22
		eS	01 00 59			iS _n	56
	✓ PK	eP	00 54 54				
		eS	01 02 00				

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
13	KM	P	00	13	55	15	PK	i	01	52	06	
		i		14	15			PP			31	
		i		15	37			eS		56	01	
		S			40		ZS	+iP		52	00	
		i		16	54			i			16	
	CU	eP		14	09			eS		56	15	
		eS		16	02			i			20	
	LC	eP		14	37		KT	eP		52	00	
		i		18	24		NK	+iP			10	
	PK	e(P)		16	46			i			26	
		i		21	02			sP			44	
								iP			57	
								eS		56	36	
13	*Epc: 43°N, 136°E O: 09-31-46						TY	eP		52	27	
							PT	eP			34	
							LC	+iP		53	28	
	CC	P	09	34	15			PP		54	44	
	PK	P		35	41			S		58	49	
		S		38	23		CT	+P		53	35	
	LC	P		37	23			PP		54	56	
	LS	eP		39	14			eS		59	04	
							CU	+iP		53	50	
								PP		55	18	
								S		59	26	
14	*Epc: 15°N, 121°E O: 09-05-43						YM	eP		53	56	
							KM	+iP		54	24	
	KM	eS	09	13	58			i			35	
	CU	eP		10	36			sP			56	
		eS		14	31			i		55	53	
	PK	eP		11	09			iS		02	00	
	LC	eP			14			sS		01	10	
		eS		15	39		LS	+iP		01	55	
	LS	eP		11	58			sP			46	
		S		16	55			PP		57	03	
								eS		02	01	
								i		02	15	
14	*Epc: 38°N, 142°E O: 19-29-42, M: 5-5¼						15	*Epc: 31°N, 141°E O: 09-43-53, M: 5				
	ZS	P	19	34	00			ZS	P	09	50	
	PK	eP			17			CC	eP		08	
		eS		38	08			NK	eP		22	
	NK	eP		34	17			PK	eP		54	
	LC	eP		35	55							
15	*Epc: 44°N, 148°E O: 01-46-46 h: 100km ca., *M: 6-6¼						16	*Epc: 38°N, 142°E O: 06-04-05, M: 5½				
	CC	P	01	50	29			CC	P	06	07	
		eS		53	24			ZS	P		08	
	DR	eP		51	17				S		11	
	PK	+P			51			NK	+P		08	

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s			
16	PK	eP	06	08	38	17	LC	pP	05	24	40			
		PP			50			sP		25	00			
		i		09	27			i			48			
	CT	S		12	20			PcP		27	14			
		eP		10	06			S		28	24			
		PP		11	05			SS		29	54			
	LC	eS		14	55		CU	+iP		24	18			
		eP		10	19			iP		25	01			
		PP		11	25			sP			27			
	CU	S		15	19		TS	S		28	50			
		P		10	33			eP		24	21			
		i		11	26			KM	iP			30		
	S		15	44	sP				25	35				
	SS		17	40	iS				20	10				
	KM	+P		11	05			sS		30	24			
		PP		12	28			ScS		34	45			
		eS		16	45			P		24	37			
	LS	+P		12	05		SA	eP			42			
eS			18	31	PT			eP		55				
					TU			eP		25	05			
16	* Epc: 17°N, 146°E O: 07-42-11, h: 200km ca.					17	PK	+iP			21			
	ZS	eP	06	47	33			sP		26	31			
		eP		43	46			PP			48			
		eS		55	49			PPF		27	30			
	LS	eP		51	02			CT	S		30	45		
		eS		58	08				sS		32	00		
									ScS		35	14		
	16	Epc: 4 ⁰ / ₂ S, 155°E O: 23-54-49						17	NK	+iP		25	55	
		KM	-P	24	04					54	pP		26	45
			eP		05					02	sP		27	01
			eP							20	PP			32
		LS	eP		06					07		S		31
eS				15	17	sS				33		04		
						ScS				35		38		
17		Epc: 35°N, 70°E O: 05-18-40 h: 200km ca., *M: 6.7					17			ZS	+iP		26	13
		LS	+iP	05	22	45					pP			56
			si		23	41					sP		27	19
			iS		20	02					PP			58
			i		27	05					i		29	01
	ScS			34	01	iS			32		18			
						sS			33		30			
	SN	eP		23	50	CC		P			26	12		
		eP			54									
		+iP		24	03									

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
18	*Epc: 22° ⁰¹ S, 173° ⁰⁰ W O: 07-33-59, *M: 5 ³ / ₄			18	CT	e(P)	19 09 45
	NK	eP	07 46 39			S	11 04
	CC	P	49		KM	eP	12 07
	PK	P	47 07			eS	15 21
		eSKS	57 35		PK	eP	12 35
		eS	58 02			eS	16 13
	KM	eP	47 27		LC	eP	12 55
		eSKS	58 02			i	13 39
		eS	40			S	16 50
	CU	SKS	04		LS	eP	14 01
		eS	46			i	16 13
	LC	eP	47 40			eS	18 46
		SKS	58 19	18	Epc: 20° ⁰³ N, 120° ⁰¹ E O: 19-48-42, M: 5 ¹ / ₂		
		eS	59 03		CT	eP	19 50 24
18	*Epc: 31°S, 178° ⁰¹ W O: 13-21-20, M: 5 ¹ / ₂ -5 ³ / ₄				ZS	eP	51 17
	ZS	P	13 33 54		NK	eP	29
		i	36 49		KM	eP	52 42
		eSKS	44 15			eS	55 52
		S	25		LF	eP	52 48
	NK	eP	34 04		CU	P	52
		ePP	37 30			PP	53 11
		eS	44 45			S	56 10
		i	45 24		SA	iP	52 54
	CC	eP	34 26		DR	eP	53 01
	PK	eP	34		TY	eP	03
		eSKS	45 08		TS	eP	08
		S	45		PK	+iP	15
	KM	eP	34 41			S	56 55
		eS	45 53		TU	eP	53 25
	CU	eP	34 49		LC	-iP	32
		ePP	38 40			iPP	56
		eSKS	45 23			S	57 24
		eS	46 11		PT	eP	53 39
	LC	eP	35 03		WW	eP	54
18	Epc: 20° ⁰¹ N, 120° ⁰¹ E O: 18-52-41, M: 4 ³ / ₄				CC	P	55
	CT	e(P)	18 54 22			S	58 07
	KM	e(P)	56 43		LS	-P	54 33
		i	19 01 44			S	59 22
	CU	eP	18 56 52	19	Epc: 39°N, 74° ⁰³ E O: 10-33-01, M: 5		
		S	19 00 18		LS	eP	10 36 58
	PK	eP	18 57 11			eS	40 10
		i	19		LC	eP	38 13
		eS	19 00 52			eS	42 20
	LC	eP	18 57 28		CU	e(P)	38 33
		PP	54			e(S)	43 03
		eS	19 01 25		KM	e(P)	38 55
	CC	e(P)	18 57 54	19	Epc: 8°S, 107°E O: 19-25-21 h: 60km ca., M: 6		
		iS	19 02 10		CT	eP	19 31 47
	LS	e(P)	18 58 36			eP	32 11
18	Epc: 21°N, 120° ⁰¹ E O: 19-06-05, M: 5						

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
19	CT	PP	19	32	51	20	NK	eP	04	00	39	
		S		36	48		SA	eP		01	40	
	KM	+iP		32	02		KM	eP			43	
		sP			26		CU	P			48	
		PP		33	16		TY	eP		02	00	
		i			49		TS	eP			04	
		eS		37	20		PK	-iP			13	
		SS		39	29		LC	-iP			28	
	CU	+P		32	46		WW	eP			50	
		sP		33	11		CC	eP			54	
		PP		34	22		LS	-P		03	35	
		iS		38	37			eS		08	17	
		SS		41	23							
	LS	+P		33	03							
		PP		34	39	20	Epc: 20° ^{30'} N, 120°E					
		PcP		35	07		O: 04-38-32, M: 5					
		PcS		38	58		CT	eP		04	40	14
		S		39	10			i			41	24
		ScS		43	06		ZS	e				06
	ZS	+iP		33	09		NK	e				30
		sP			33		SA	e(P)			42	33
		PP		34	47		KM	eP				33
		S		39	17			e			45	53
	NK	+iP		33	11		CU	eP			42	42
		sP			34			i			46	05
		PP		34	50		KT	eP			42	07
		PcP		35	10		LF	e				49
		S		39	22		TY	eP				54
		sS			47		TS	eP				58
	LC	+iP		33	32		PK	eP			43	05
		sP			59			e(S)			46	43
		PP		35	19			i				55
		PcS		39	10		TU	e(P)			43	19
		S			59		LC	eP				21
		sS		40	29			e(S)			47	15
	TY	P		33	47			i				24
	PK	+iP		34	07		YC	eP			43	27
		sP			33		PT	e(P)				28
		PcP		35	33		WW	e				45
		PP		36	04		CC	eP				45
		PcS		39	28		LS	eP			44	28
		S		41	04			eS			49	12
		ScS		43	56							
	CC	iP		34	48							
		S			42							
		ScS		44	35	20	Epc: 20° ^{30'} N, 100° ^{15'} E					
							O: 09-04-10, M: 5					
20	Epc: 20° ^{30'} N, 120°E						CT	e(P)		09	03	25
	O: 03-57-40, M: 5							i			07	17
	CT	eP		03	59			S				44
	ZS	eP		04	00		ZS	i			09	35
							NK	e(P)			07	43

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
20	NK	e(S)	09	10	04	22	YC	eP	10	59	49	
	KM	eP		08	44		SA	iP	11	00	09	
		i		09	15		LC	-iP			18	
		S		11	55			i			22	
	CU	eP		08	53			PP		02	34	
		e		09	48			iS		08	20	
		eS		12	13		YM	eP		00	20	
	PK	+P		09	15		CT	iP			38	
		eS		12	54			i			42	
	LC	P		09	28			iS		08	57	
		i		10	07		CU	-iP		00	41	
		eS		13	16			i			45	
	CC	e(S)		14	09			PP		02	59	
	LS	eP		10	37		KM	-P		01	12	
		eS		15	22			i			17	
								ePP		03	44	
								S		10	02	
								Sc3		11	05	
21	Epc: 4.0°N, 100°E O: 13-45-56, M: 4 1/4						LS	P		01	38	
								i			44	
	YM	e(P)	13	47	30			PP		03	12	
		S		48	37			iS		10	53	
	LC	e(P)			23							
		i		50	21							
		i			50							
	CU	eP		49	33	22	Epc: 50°S, 175°W O: 17-04-59, *M: 5 1/2 After shock.					
	LS	eP		50	01		PK	+P	17	13	41	
		i		55	21			eS		20	39	
	PK	e		50	55		ZS	+iP		14	01	
								eS		21	17	
							NE	+P		14	07	
							CU	+P		15	19	
								eS		23	39	
22	Epc. 50°S, 175°W O: 10-50-29, M: 6 1/2						KM	P		15	51	
							LS	+P		16	16	
	CC	P	10	57	59			eS		25	25	
		i		58	04							
		PP		59	35							
		iS		11	04	07						
		SS		06	53							
	PK	-iP	10	53	02							
		i			07							
		PcP		11	00	35	23	* Epc. 27°S, C3°W O: 08-14-18, h: 600km ca.				
		iPP			55							
		iS		06	00		LS	-PKP1	08	33	45	
	TU	eP	10	59	15			-PKP2		34	19	
	ZS	-iP			21			pPKP		35	58	
		i			26			PP		38	00	
		iPP		11	01	22		LC	-PKP1		33	52
		iS		06	38			-iPKP2		34	57	
	NK	-iP	10	53	27			pPKP		36	07	
		i			31			PP		38	45	
		eS		11	06	42		KM	-PKP1		33	52
	PT	e(P)	10	53	29			-PKP2		35	02	

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
23	KM	pPKP	08	36	07	23	LC	+P	10	11	12	
		PP		38	50			PP			35	
	PK	-PKP		33	52			S			15 03	
		pPKP		36	07		CC	P			11 35	
		PP		38	51		LS	-P			12 18	
	CU	-PKP		33	52							
		pPKP		36	07							
		iPP		38	54	23	Epc: 24° ¹ / ₂ N, 142°E					
	NK	PKP		33	56		O: 10-47-56					
		PP		35	25		h: 100km ca., M: 6 ¹ / ₄					
	CT	-PKP		33	57		ZS	-iP	10	52	19	
		pPKP		36	11			i(pP)			35	
								iS			55 59	
							NK	-iP			52 42	
								ipP			53 06	
								S			56 39	
23	Epc: 28°N, 139° ¹ / ₂ E						CC	eP	52	56		
	O: 09-12-25							eS	57	11		
	h: 440km ca., * M: 6 ¹ / ₂						CT	eP	53	26		
	ZS	-iP	09	15	48			eS	57	49		
		sP		17	34			isS	58	42		
		S		18	30		PK	-iP	53	26		
	NK	-iP		16	11			S	57	53		
		sP		17	59		SA	iP	54	03		
		iS		19	13		LC	-iP		38		
	CC	iP		16	20			S	11	00	02	
		S		19	28		KM	-iP	10	54	47	
	PK	-iP		16	50			iS	11	00	16	
		sP		18	52			isS		57		
		iS		20	30		LS	-iP	10	56	08	
	CT	-P		17	07			S	11	02	43	
		sP		19	10			sS		03	26	
		iS		20	53			isS		05	52	
	CU	-iP		18	05							
		iS		22	34		24	Epc: 45° ¹ / ₄ N, 95° ³ / ₂ E				
	LC	-iP		18	07		O: 12-27-06, M: 6					
		pP		19	31		YM	P	12	28	30	
		S		22	36		WW	eP	29	00		
	KM	-iP		18	15		YC	eP		12		
		iS		23	09		PT	eP		18		
	LS	P		19	41		LC	P		26		
		pP		21	10			S		31	18	
		sP			50		TU	eP	29	53		
		S		25	18		TS	eP		54		
							TY	eP	30	02		
23	Epc: 20° ¹ / ₂ N, 120° ¹ / ₂ E						KT	eP		06		
	O: 10-06-22, M: 4 ³ / ₄						SA	eP		16		
	CT	eP	10	08	06		PK	+iP		16		
	KM	eP		10	24			eS	32	47		
	PK	+P			56		LS	-P	31	09		
		eS		14	38			S	34	23		

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Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
24	DR	eP	12	31	12	27	NK	eS	23	32	43	
	CC	iP			24		LF	eP		31	45	
		S		34	46		KM	-P			46	
	NK	+iP		31	40			iPP		32	02	
		PP		32	02		CU	-iP		31	57	
		S		35	22		DR	eP		32	05	
	KM	+iP		31	44		TY	eP			09	
		S		35	28		TS	eP			10	
	ZS	+iP		32	02		PK	-P			20	
		PP			25			S		35	58	
		S		36	05		KT	eP		52	21	
	CT	+P		32	31		TU	eP			34	
		S		36	53		LC	-P			35	
							YC	eP			45	
							WW	eP			59	
25	* Epc: 51° $\frac{1}{2}$ N, 179° $\frac{1}{2}$ E O: 01-56-40, M: 5 $\frac{1}{2}$ -5 $\frac{3}{4}$						CC	P		33	00	
								S		37	10	
	PK	P	02	04	50		SW	eP		33	32	
		eS		11	29		LS	eP			43	
	ZS	+P		05	12			PP		34	35	
		S		12	05			S		38	27	
	NK	(P)		05	17							
		eS		11	56		28	* Epc: 11°N, 128° $\frac{1}{2}$ E O: 16-41-57				
	LS	P		07	34							
							CT	eP	16	46	39	
26	Epc: 31°N, 142° $\frac{1}{2}$ E O: 11-35-25						NK	P			54	
	CC	P	11	39	45		KM	eP		47	11	
	NK	eP		40	02		CU	eP			45	
	PK	eP			32							
		S		44	41							
	LS	eP		43	33							
		eS		50	04							
26	* Epc: 50°N, 155° $\frac{1}{2}$ E O: 10-50-46, M: 5 $\frac{1}{2}$											
	LC	eP	16	58	20		1	* Epc: 13° $\frac{1}{2}$ S, 76° $\frac{1}{2}$ W O: 09-05-40				
	CT	+P			44			LS	ePKP	09	25	45
	CU	eP			47			CU	ePKP			46
	KM	+P		59	24			KM	e(PKP)			51
27	Epc: 20° $\frac{3}{4}$ N, 120° $\frac{1}{4}$ E O: 23-27-49, M: 6						2	Epc: 21°N, 121°E O: 02-33-36, M: 4 $\frac{1}{4}$				
	CT	eP	23	29	27			CT	e(P)	02	35	16
		S		30	47			KM	eP		37	37
	ZS	+P			19				e(S)		40	55
		S		52	39							
	NK	eP		30	33							

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Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
2	CU	eP	02	37	46	3	KT	P	16	25	25
		iS		41	08			TU	eP		
	PK	eP		38	07		ZS	+iP			54
		e(S)		41	47			PP		27	30
	LC	eP		38	26			S		32	00
		eS		42	21		NK	+iP		25	59
LS	e		39	29		i		26	29		
	eS		44	10		PP		27	33		
3 *Epc: $14^{\circ}\frac{1}{2}S$, $168^{\circ}\frac{1}{2}E$ O: 04-06-16, M: 5.5								PcP	28	04	
								S	32	07	
PK	P		04	17	47	LF	eP		26	11	
						SA	eP		30		
						WW	eP		40		
						LC	+iP		44		
							S		33	32	
CU	eP		09		i			58			
LS	+P		19	03	TS	eP		26	45		
3 Epc: $23^{\circ}\frac{1}{4}N$, $122^{\circ}E$ O: 07-22-42, M: 5						CU	+iP		27	13	
							S		34	22	
ZS	eP		07	24	39		i			54	
	S			26	09	CT	+iP		27	19	
CT	eP			24	40	KM	+iP			50	
	eS			26	07		eS		35	30	
NK	eP			25	00	LS	+iP		28	14	
	eS			26	48		S		36	14	
TY	eP				41	3 Epc: $55^{\circ}\frac{1}{2}N$, $166^{\circ}\frac{1}{2}E$ O: 17-32-45 After shock, M: $5\frac{1}{4}$					
PK	eP				51						
CU	eP				53	CC	eP		17	38	47
	S				30	10	S			43	36
KM	eP				26	55	PK	P		39	53
	eS				30	18		eS		45	35
TS	eP				27	01	ZS	P		40	25
TU	eP					05		eS		46	33
PT	eP					21	NK	P		40	30
LC	S				31	07		eS		46	44
YC	eP				27	24	LC	+iP		41	15
SN	eP					41		S		48	04
WW	eP					41	CU	+P		41	44
LS	P				28	41		S		48	54
	S				33	28	KM	+iP		42	21
3 Epc: $55^{\circ}\frac{1}{2}N$, $166^{\circ}\frac{1}{2}E$ O: 16-18-17, M: $5\frac{3}{4}$						LS	eS		50	05	
							+P		42	44	
SW	eP		16	23	54		eS		50	45	
CC	P			24	16	4 Epc: $20^{\circ}N$, $120^{\circ}\frac{1}{2}E$ O: 05-29-31, M: $4\frac{1}{2}$					
PK	+iP			25	23						
	i				56	CT	eP		05	31	20
	S				31	03					

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
4	CU	eP	05 33 51	7	LS	P	06 59 36
		(S)	37 07			S	07 02 49
	PK	eP	34 12		CU	eP	01 06
		S	37 57			eS	05 41
	LC	eP	34 25		CT	eP	02 42
		eS	38 20			eS	06 26
		e	35 28				
		eS	40 12				
				7	Epc: 10°N, 126° $\frac{1}{2}$ E		
					O: 08-21-26		
4	Epc: 26° $\frac{3}{4}$ N, 130°E				CT	P	06 25 43
	O: 17-48-32, M: 4 $\frac{3}{4}$					PP	26 02
	ZS	P	17 50 42			S	29 06
		eS	52 24		ZS	-iP	26 24
	NK	eP	51 14			S	30 22
		eS	53 20		NK	-iP	26 38
	PK	P	52 41		KM	P	27 12
		S	55 56		CU	e(P)	34
		i	56 16			S	32 28
	CC	e(P)	52 42		PK	-iP	27 51
	SA	P	55 05		LS	P	28 51
		eS	56 43			PP	30 24
	CU	+P	53 30				
		S	57 47				
	LC	P	53 50	11	Epc: 24° $\frac{3}{4}$ N, 124° $\frac{3}{4}$ E		
		S	58 00		O: 00-25-58		
	KM	+P	53 56		h: 40km ca., M: 7 $\frac{1}{2}$		
		S	58 14		ZS	-iP	00 27 43
	LS	eP	55 24			isP	00 59
						S	29 07
4	Epc: 42°N, 82°E				NK	-iP	28 08
	O: 18-48-07, M: 4					isP	24
	LS	eP	18 51 33			S	29 51
		eS	54 06		FL	eP	28 23
	LC	eP	52 16		CT	-P	31
	CU	eP	55			isP	48
						S	30 30
5	* Epc: 52°N, 170° $\frac{1}{2}$ W				TT	P	28 50
	O: 19-53-28				DR	eP	29 22
	CU	eP	20 04 07		LF	eP	41
	KM	eP	37		SA	iP	50
	LS	eP	59		TY	iP	52
		eS	14 36		KI	iP	58
					TU	eP	30 08
					CC	iP	17
					TS	i	17
					CU	+iP	17
					PT	P	27
7	Epc: 36°N, 70° $\frac{1}{2}$ E				KM	iP	28
	O: 06-55-56					isP	42
					YC	eP	35

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Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
11	LC	-iP	00	30	39	12	CU	eP	03	00	55
	SW	eP			44	NK	eP				01 49
	WW	eP			56	KM	eP				02 02
	SN	eP			56						
	YM	eP			31 42						
	LS	+iP			32 04	13	Epc: 13°N, 124°E				
		iS			36 58		O: 23-49-21, M: 5½				
11	Epc: 13°S, 167°E						CT	+P	23	52	45
	O: 13-59-02, M: 5¼							PP		52	56
	ZS	+P	14	09	30			PPP		53	03
		iS			17 55			eS		55	23
		i			18 12		ZS	+P		53	40
	CT	+P			09 41		NK	P			57
		i			47		KM	-iP			54 31
		iS			18 16		CU	eP			51
		iPS			34		PK	eP			55 15
	NK	+iP			09 45			eS	24	00	00
		i			52		LC	eP	23	55	23
		S			18 24			i			33
		iPS			44		LS	iP			56 13
	PK	+P	10	26				PP			57 27
		i			32			S	24	01	40
		iPcP			45		SA	eP	23	54	59
		(S)			19 43		TU	eP			55 29
		iScS			20 31						
	KM	+P	10	40		14	Epc: 25°N, 96°E				
		+iPcP			46		O: 00-09-41, M: 5½				
		S			20 08		KM	e(P _n)	00	11	13
	CU	+iP	10	47				P			36
		+iPcP			53			i			12 42
		iS			20 20		LS	P _n			11 22
		iScS			48			P			50
		i			25 24			S			13 15
	LC	+iP	11	04			CU	e			12 08
		PcP			10		LC	eP			48
		S			20 52		NK	eP			14 26
		iSKS			21 09		ZS	eP			48
	LS	+iP	11	43							
		iPcP			49		15	Epc: 23°N, 121°E			
		SKS			22 02		O: 00-24-05, M: 5½				
		iS			10		CT	eP	00	25	58
12	Epc: 44°N, 102°E						ZS	eP			26 05
	O: 02-57-30, M: 4¼							eS			27 37
	YM	e(P)	02	59	22		NK	eP			26 23
	PT	e(P)			33			eS			28 11
	LC	e(P)			41		FL	eP			27 16

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s	
15	SA	eP	00 27 48	18	KM	eS	22 39 56	
	KM	eP	28 11		LS	P	31 25	
		eS	31 25			eS	40 44	
		PK	eP	28 12	20 22	Epc: 51°N, 173°W		
		CU	eP	15		O: 01-38-02, M: 6		
			S	31 30		SW	eP	01 45 29
		TS	eP	28 23		CC	-P	51
		LC	eS	32 20			i	54
		CC	P	28 49			i	56
			eS	32 40			PP	47 34
		WW	eP	29 07			PcP	52
		LS	eP	30 02			PPP	48 05
			eS	34 46			S	52 10
					i	20		
					SS	55 11		
16	* Epc: 10°N, 124° ¹ / ₂ E				DR	eP	46 36	
	O: 23-54-05				PK	P	53	
	ZS	P	23 58 52		i	47 28		
		S	24 02 40		PP	48 53		
	NK	eP	23 59 07		i	50 24		
	KM	eP	41		S	54 03		
	CU	eP	24 00 05		i	55 16		
		eS	04 56		i	50		
	PK	eP	00 23		TU	eP	47 11	
	LS	e(P)	01 22		ZS	-iP	12	
17	Epc: 8°N, 94°E				i	16		
	O: 21-07-23				S	54 38		
	KM	eP	21 11 59		NK	-P	47 17	
	LS	P	12 23		S	54 44		
		PP	48		PT	eP	47 20	
		S	16 20		TY	eP	24	
	CU	eP	12 51		LF	eP	36	
		eS	17 10		SA	eP	56	
	NK	eP	14 10		WW	eP	48 05	
	ZS	eP	18			eS	56 15	
	PK	P	48		LC	P	48 06	
						PPP	51 45	
						S	56 17	
18	Epc: 51°N, 173°W				i	29		
	O: 22-20-02, *M: 6.2				TS	eP	48 09	
	CC	-iP	22 27 50		CT	P	27	
		eS	34 06		i	44		
	PK	eP	28 52		e	51 32		
		eS	35 56		ePPP	52 15		
	ZS	-P	29 11		eS	56 56		
	LC	P	30 06		i	57 03		
	CU	iP	30 30		i	45		
	KM	-P	31 00		CU	-P	48 30	
						PP	50 54	
						PPP	52 26	

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s	
20	CU	S	01 57 00	22	NK	+iP	10 16 40	
		SSS	02 03 50			sP	17 00	
	KM	-P	01 49 02		PK	PP	12	
		i	51 35			i	18 43	
	LS	S	58 00		i	20 23		
		-iP	43 27		iS	48		
		PP	52 04		SS	21 38		
		PPP	53 58		+iP	16 54		
		S	58 49		isP	17 17		
		i	59		PP	35		
21	* Epc: $13^{\circ}\frac{1}{2}N$, $92^{\circ}\frac{1}{2}E$ O: 18-32-54		22	ZS	i	18 05		
	LS	eP			18 36 56	i	20 46	
		eS			39 49	iS	21 11	
	CU	+iP			37 42	+P	16 56	
						sP	17 16	
22	Epc: $23^{\circ}\frac{1}{2}N$, $94^{\circ}E$ O: 10-11-36 h: 60km, M: 6		22	SW	S	21 12		
	LS	-iP			10 13 12	eP	17 21	
		i			53	iP	18 03	
	KM	+iP			38	S	23 13	
		(sP)			52	i	53	
	SN	S			15 14	eP	18 21	
		eP			01			
	TS	eP			07			
		i			49			
	LC	e(S)			18 03			
+P		15 05						
sP		28						
i		17 22						
WW	S	52						
	i	18 06						
YM	e	15 09						
	eS	18 18						
SA	P	15 27						
	S	18 40						
23	SA	iS	41	23	Epc: $19^{\circ}N$, $120^{\circ}E$ O: 10-14-49, M: $5\frac{1}{4}$	CT	P	10 16 37
		+iP	15 41				PP	47
	CT	sP	16 04		ZS	S	18 07	
		i	18 22			eP	17 45	
	TY	S	58		NK	-P	59	
		i	21 13			eS	20 30	
	PT	i	25		KM	+iP	18 51	
		eP	16 17			SA	P	19 03
	TU	S	20 17		LC	-P	39	
		P	16 22			eP	48	
	eP	38						

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
23	LC	eS	10 23 55	28	* Epc: 36° .6N, 70° .9E		
	TU	P	19 49		O: 04-09-37		
	PT	P	59		h: 210km, M: 5.7		
	CC	eP	20 15		LS	eP	04 13 35
	LS	eP	46			S	16 49
25	Epc: 24° 1/2 N, 120° 1/2 E			28	Epc: 36° .5N, 70° .5E		
	O: 09-30-18, M: 4				O: 12-06-23		
	ZS	e(P)	09 31 59		h: 200km ca., M: 6 1/2 - 6 1/2		
		e(S)	33 16		LS	-iP	12 10 28
	CT	e(P)	32 03			sP	11 18
		e(S)	33 23			iS	13 41
	NK	e(P)	32 16			i	14 37
		e(S)	33 46		WW	eP	11 36
	KM	e	38 52		CU	-iP	12 01
	SA	e	09			i	39
PK	e(P)	34 11		ipP	41		
LS	eP	36 05		iS	16 32		
25	Epc: 21° N, 121° E			KM	-iP	12 12	
	O: 15-56-47, M: 4 1/2				pP	55	
	CT	e	15 58 43		sP	13 21	
	KM	e(P)	16 00 56		S	16 49	
		eS	04 10		i	52	
	PK	eP	01 24		PT	eP	12 24
		(S)	05 06		PK	+iP	13 04
	LC	e(P)	01 41			pP	46
		eS	05 34			ePP	14 29
	CC	eP	02 03			ePPP	15 04
LS	(S)	06 21		iPcP	29		
	eP	02 48		eS	18 25		
26	Epc: 10° N, 126° E			CT	-P	13 34	
	O: 00-25-50				iS	19 17	
	h: 100km ca., M: 5 1/2				NK	+iP	13 39
		-iP	00 29 52			pP	14 20
		isP	30 23			iS	19 27
		S	33 06		CC	iP	13 55
		i	47			pP	14 37
	NK	eP	30 48		ZS	+iP	57
		ipP	31 12			ipP	14 38
		i(sP)	19			iS	20 00
	eS	34 47		isS	21 16		
	isS	35 26	SW	eP	14 03		
LS	-P	33 00					
	S	38 42					
29	Epc: 38° 1/2 N, 105° 1/2 E			WW	eP	10 33 22	
	O: 10-33-04, M: 4 1/2						

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s		
29	WW	i	10	33	23	1	* Epc: 10°N, 121°E O: 23-55-23						
		i \bar{S}			34								
		e			44								
	YC	\bar{P}			47		NK	eP	24	00	22		
		\bar{S}	34	13				eS	04	21			
	LC	-P _n			33		46	KM	eP		00	32	
		- \bar{P}					48						
		\bar{S}	54	17									
	SN	e \bar{P}	33	48				4	* Epc: 5 $\frac{1}{2}$ °S; 152°E O: 15-38-03, M: 6 $\frac{1}{4}$ -6 $\frac{1}{2}$				
	TS	e(\bar{P})	34	26			ZS			P	15	40	36
		e	35	04			CT			eP			41
	SA	e \bar{S}			12		NK		P			53	
		e(\bar{P})	34	56					eS	53	57		
		(S _n)	35	38					CC	\bar{P}	47	34	
		\bar{S}	36	08					PK	P		44	
CU	i			20		PP	40		52				
	eP	34	57			i	51		46				
KM	e(S)	36	20			PS	55		49				
	eP			13	KM	eP	47		51				
						PP	49		57				
						i	52		49				
						eS	55		44				
					LC	P	48		21				
						eS	56	40					
					LS	P	49	08					
30	Epc: 38 $\frac{1}{4}$ °N, 103 $\frac{1}{2}$ °E O: 02-16-00, M: 3 $\frac{3}{4}$					7	* Epc: 66 $\frac{1}{2}$ °N, 157°W O: 15-30-38, M: 7						
	WW	\bar{P}	02	16	18			SW	eP	15	38	44	
		\bar{S}			29				eS	45	42		
	LC	P _n			41		CC	-iP	39	10			
		\bar{P}			43			PcP	40	40			
	YC	i \bar{S}	17	12			PP	41	02				
		i \bar{P}	16	43			iS	45	56				
		S _n	17	07			DR	eP	39	55			
	SN	\bar{S}			10		PK	-iP	40	01			
		(\bar{S})			11			+iPP	42	05			
	TS	\bar{P}	18	11			iPPP	43	09				
	SA	\bar{S}	19	10			iS	47	33				
	CU	e(P)	17	55			TU	iP	40	14			
								eS	47	56			
							TY	eP	40	26			
					ZS	+iP	41						
						i	42	35					
						PP	52						
						PPP	44	17					
						i	48	01					
						eS	46						
April													
1	* Epc: 38°5N, 141°6E O: 14-07-17 h: 60km, M: 5.4					1							
	ZS	eP	14	11	23								
	NK	eP			40								
	KM	-P	14	07									
	LS	-P	15	06									

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
7	PT	S	19 17 34	8	KM	eP	07 17 49
	IG	+iP	15 45		LS	eP	13 49
		eS	17 40				
	TS	P	16 17				
		S	18 34				
	TU	P	16 17	8	Epc: 38°N, 68°E O: 09-50-17, M: 5		
		eS	18 35		LS	iP	10 05 53
	TY	P	16 26			S	07 35
		S	18 54		LC	-P	05 25
	IF	P	18 54			S	10 17
	SA	iP	35		KM	-P	08 40
		eS	19 07			S	10 46
	KT	eP	16 35		PK	e(P)	08 52
	PK	+iP	42				
	LS	-iP	17 17	8	Epc: 38°N, 143°E O: 10-01-14, M: 4½ After shock of April 7, 18 ^h		
	DR	eP	55		CC	eP	10 04 50
	TT	P	48		ZS	P	06 48
	CC	P	50			eS	08 14
		eS	21 29		NK	eP	06 01
	FL	P	17 54		PK	P	02
		S	21 32		LC	eP	07 41
	KM	+iP	18 01	8	* Epc: 19°S, 176°W O: 13-21-53, h: 250km ca.		
	NK	P	03		NK	P	13 33 25
		eS	21 53		CC	P	34
	ZS	P	18 26		PK	P	54
		iS	22 34		KM	-P	34 14
	CT	+iP	18 50		LC	eP	27
8	Epc: 45°N, 98°E O: 00-55-27, M: 5			8	After shock of April 7, 18 ^h O: 15-26-13		
	PK	eP	00 58 48		CC	eP	15 30 06
	LS	eP	59 28		ZS	eP	31 05
		eS	01 02 41			eS	54 58
		i	04 50		PK	P	31 19
	KM	eP	00 03		NK	eP	52
	NK	eP	11	8	Epc: 38°N, 144°E O: 19-54-35 After shock of April 7, 18 ^h		
	ZS	+P	33		CC	eP	19 57 52
	CT	eP	58		ZS	P	58 45
8	Epc: 38°N, 143°E O: 07-10-35 After shock of April 7, 18 ^h						
	CC	eP	07 14 00				
	ZS	P	15 09				
	NK	eP	15 22				
	PK	P	24				
	CT	eP	16 50				
	IG	P	17 05				
	KM	eP	49				
	LS	eP	18 49				

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Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
8	PK	eP	19	59	08	10	NK	eP	01	06	10	
	NK	eP			09		LC	eP			08 52	
	LS	eP	20	02	33			S			12 56	
							KM	eP			08 56	
9	* Epc: 29°N, 52°E O: 04-36-32, M: 5					10	Epc: 52° $\frac{1}{2}$ N, 100°E O: 10-55-28, M: 5 $\frac{1}{4}$					
	LS	P	04	43	19		PT	eP	10	58	47	
		S			48 43		YC	eP			59	
	LC	eP			44 40		LC	P			59 21	
		eS			51 10			eS	11	02	22	
	KM	+P			44 49		PK	P	10	59	25	
		eS			51 25			eS	11	02	29	
	PK	eP			45 52		CC	eS	03		11	
		eS			53 21		SA	eS			27	
	NK	+P			46 17		LS	eP			00 44	
	CC	eP			47 28			eS			04 59	
							NK	eP			00 52	
								eS			05 16	
9	* Epc: 56° $\frac{1}{2}$ N, 139°W O: 06-15-12, M: 5 $\frac{1}{4}$						ZS	eP			01 08	
							KM	P			16	
	CC	+iP	06	25	05			eS			05 55	
		S			33 06		CT	eP			01 51	
	PK	eP			25 55							
		S			34 39		10	Epc: 38° $\frac{1}{2}$ N, 143° $\frac{1}{2}$ E O: 11-50-02, M: 5 $\frac{1}{4}$ After shock of April 7. 18 ^h				
	ZS	+P			26 25			CC	+P	11	53 31	
		eS			35 36				eS		56 15	
		SS			40 06			ZS	+iP		54 33	
	NK	+iP			26 27				eS		58 09	
		eS			35 36			NK	+P		54 46	
		eSS			40 08				eS		58 34	
	LC	P			26 48			PK	+iP		54 47	
		S			36 18				eS		58 35	
	LS	eP			27 49			SA	eP		55 56	
		eS			39 17			CT	P		56 13	
									ePP		57 37	
9	* Epc: 2°N, 126° $\frac{1}{2}$ E O: 17-58-02						LC	+iP			56 27	
								PP			57 29	
	CT	-P	18	03	29			eS	12	01	36	
		S			07 44			KM	+iP	11	57 12	
	ZS	P			04 14				eS	12	02 54	
	KM	+P			40			LS	+P	11	58 13	
	LS	iP			06 13				i		32	
		eS			12 34				eS	12	04 43	
10	* Epc: 27° $\frac{1}{2}$ N, 128° $\frac{1}{2}$ E O: 01-03-45											
	ZS	P			01 05 38							

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
11	Epc: 38° ¹ / ₂ N, 143°E					11	ZS	sS	23	22	58
	O: 00-58-13, M: 5 ³ / ₄							ScS			27 49
	After shock of April 7, 18 ^h						NK	+iP			17 32
✓	CC	+iP	01	01	39			pP			18 01
✓	ZS	+P		02	40			sP			18
		S		06	11			PPP			19 02
✓	NK	+iP		02	56			S			22 18
✓	PK	+iP			56			sS			23 12
✓	SA	P		04	06		SA	P			18 17
✓	CT	+P			23		LC	+iP			36
		S		09	17			PP			20 09
✓	LC	+iP		04	35			PPP			37
		PP		05	38			S			24 12
		S		09	40			sS			25 12
✓	KM	+iP		05	21		CT	+iP			18 56
		PP		06	45			pP			19 25
		PPP		07	01			sP			42
		i			16			S			24 52
		S		11	02			sS			25 45
✓	LS	+iP		03	22		KM	+iP			19 39
		S		12	53			pP			20 09
		i		13	13			sP			31
		ScS		16	20			PPP			22 05
								S			26 05
								sS			27 02
								ScS			29 20
								i			30 23
							LS	+iP			20 17
								pP			56
								i			25 17
								S			27 15
								sS			28 10
								ScS			29 53
								SS			30 55
							PT	eP			17 41
11	* Epc: 52°N, 174°W										
	O: 17-27-00, M: 5.5 ¹ / ₄										
	PK	P	17	35	41						
	LC	P		36	54						
	KM	eP		37	53						
	LS	+iP		38	17						
		eS		47	29						
11	Epc: 48°N, 153°E										
	O: 23-11-25										
	h: 100km ca., M: 6 ¹ / ₄										
✓	CC	+iP	23	16	49						
		iS		20	19						
✓	PK	+iP		17	05						
		pP			31						
		PP			54						
		(S)		21	22						
		sS		22	26						
		i			40						
✓	ZS	+iP		17	24						
		pP			56						
		sP		18	15						
		i		19	01						
		S		22	05						
11	* Epc: 0° lat, 125°E										
	O: 23-24-11, M: 5 ¹ / ₄ -5 ¹ / ₂										
	CT	eP	23	29	45						
		i		30	07						
	KM	eP			25						
	PK	e(P)		31	53						
	LC	P			56						
	LS	eP		32	22						
12	Epc: 25°N, 126°E										
	O: 13-25-22, M: 5 ¹ / ₂										
	ZS	P	13	27	18						

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Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
12	ZS	S	13 28 43	13	PK	PP	09 18 48
	NK	+iP	27 47			PPP	20 06
	FL	eP	28 04			S	24 19
	CT	P	13		ZS	-P	17 29
	LF	eP	29 27			S	25 36
	PK	+iP	28		NK	-P	17 30
		S	32 43			eS	25 38
	SA	P	29 33		LC	-P	17 46
	CC	+iP	47			PP	20 03
		iS	33 16			PPP	21 30
	KM	+iP	30 12			S	26 11
		S	34 05		CT	eP	18 37
	LC	+iP	30 20		KM	-P	51
		S	34 18		LS	P	55
	LS	+iP	31 47			ePP	21 39
		PP	32 50			ePPP	23 24
		S	36 52			S	28 19

13 Epc: 45°N, 98° $\frac{1}{2}$ E
O: 04-08-43, M: 5

	YM	e	04 10 09
		P	24
		S _n	11 01
		S	30
	WW	eP	10 48
		S	12 43
	LC	P	11 14
	PK	eP	12 10
	SA	eP	10
	LS	eP	47
		eS	15 56
	CC	P	13 15
		eS	16 46
	KM	+P	13 28
		eS	17 09
	NK	+P	13 31
		eS	17 17
	ZS	eP	13 55
		eS	18 02
	CT	P	14 18
		eS	18 45
	LF	eP	15 00

13 Epc: 53°N, 160° $\frac{1}{2}$ E
O: 12-29-06, M: 6 $\frac{1}{4}$

	CC	+P	12 34 30
		PP	35 17
		S	38 50
	PK	+P	35 40
		PP	36 50
		PPP	37 06
		S	40 56
	ZS	P	36 09
		S	41 45
	NK	+P	36 13
		S	41 52
	LC	+P	37 06
		PP	38 48
		PcP	56
	WW	eP	37 09
	SA	P	13
	YM	eP	19
	KM	+iP	38 12
		PcP	39 28
		i	40 13
		PPP	41 06
		i	22
		S	45 29
	LS	+P	38 42
		PcP	39 48
		PP	40 52
		PPP	42 03
		S	46 26
		ScS	48 34
		i	51 04

13 Epc: 66°N, 155° $\frac{1}{2}$ W
O: 09-07-24, M: 6 $\frac{1}{4}$

	CC	-P	09 15 55
		iPP	17 47
		S	22 45
	PK	+P	16.48

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
14	Epc: $47^{\circ}1'N$, $151^{\circ}1'E$			14	CC	ePKP	21 51 41
	O: 02-49-48, M: $4\frac{3}{4} - 5$					PP	53 59
✓	CC	eP	02 54 08	✓	PK	PKP	51 53
✓	PK	P	55 27			PP	54 27
✓	ZS	P	43	✓	NK	ePKP	51 58
✓	NK	eP	51			PP	55 15
				✓		i	22 14 05
✓	LC	eS	03 00 40	✓	ZS	ePKP	21 52 00
✓	LC	+P	02 56 58			PP	55 18
✓		eS	03 02 39	✓		i	22 13 55
✓	KM	+1P	02 58 00	✓	LC	+PKP	21 52 00
✓		eS	03 04 35			PP	55 09
✓	LS	+P	02 58 41	✓		i	22 13 48
				✓	LS	+PKP	21 52 16
						PP	55 55
				✓		PPP	59 05
				✓	CT	ePKP	52 21
						PP	56 08
				✓		i	22 15 59
				✓	KM	+1PKP ₁	21 52 24
						PKP ₂	50
						PP	50 21
						i	22 15 52
14	Epc: $45^{\circ}N$, $98^{\circ}E$			15	*Epc: $1^{\circ}N$, $79^{\circ}1'W$		
	O: 16-26-50, M: $4\frac{1}{2}$				O: 01-50-43, M: $6\frac{1}{2} - 6\frac{3}{4}$		
	YM	e(P _n)	13 23 13	✓	PK	PKP	01 50 08
		eP	28			ePKS	53 42
		eS _n	29 10	✓		SKKS	59 42
		S	32	✓	LC	PKP	50 13
	LC	P	18	✓		PP	53 26
		S	31 10	✓	ZS	ePKP	50 19
	PK	eP	30 13	✓		PP	53 32
		e(S)	32 54	✓	NK	PKP	50 21
	LS	eP	30 51	✓		-PP	53 37
		S	34 06	✓	LS	+PKP	50 32
	CC	eP	31 22	✓		ePP	54 07
	KM	eP	32			SKKS	02 00 56
		S	35 17	✓	KM	+FKP	01 50 38
	NK	eP	31 36			PKS	54 12
	ZS	-P	59	✓		PP	34
		eS	36 08	✓		SKKS	02 01 23
	CT	eS	55	✓	CT	ePKP	01 50 40
						ePP	54 33
14	*Epc: $52^{\circ}5'N$, $161^{\circ}3'E$			15	*Epc: $9^{\circ}N$, $84^{\circ}W$		
	O: 18-08-40, M: $5\frac{1}{4} - 5\frac{1}{2}$				O: 03-52-39, M: $6\frac{3}{4}$		
✓	CC	P	18 14 04	✓	PK	e(PKP)	04 11 46
✓		PP	42	✓		+PP	13 49
✓		eS	18 26	✓	ZS	e(PKP)	12 00
✓	PK	e(P)	15 13				
✓	ZS	P	44				
✓		eS	21 22				
✓	NK	e(P)	15 50				
✓	LC	P	16 39				
✓	KM	P	17 45				
✓	LS	eP	18 15				

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
15	LC	e(PKP)	04	12	05	16	KM	-P	12	40	54	
	LS	ePKP			12		SA	eP		41	23	
		ePP		15	13		LC	+P			56	
		PKS			46			S		46	22	
		i			52		LS	e(P)		42	39	
	CT	+PKP		12	15			S		47	36	
		i			56							
		SKS		19	26							
	KM	-PKP		12	20							
15	* Epc: 15°N, 120°E O: 09-59-50 h: 100km ca., M: 5 $\frac{1}{2}$ -5 $\frac{3}{4}$						ZS	-iP	04	18	41	
							NK	-iP			54	
							LC	e(P)		20	09	
							LS	-P			32	
	CT	eP	10	02	22							
		i		04	48							
	ZS	-P		03	40	17	Epc: 6°S, 155° $\frac{1}{2}$ E O: 06-21-21					
		sP		04	01		ZS	eP	06	30	34	
		S		06	45		CT	-P			42	
	NK	+P		03	56			S		37	54	
		PP		04	08		CC	eP		31	28	
		sP			16		KM	+iP			50	
		S		07	10			eS		40	01	
		SS			32		LC	-P		32	18	
	KM	+P		04	18			S		40	47	
		i			31		LS	+iP		33	03	
		PP			37			iS		42	18	
		S		07	58							
	SA	P		04	46							
15	Epc: 38° $\frac{1}{4}$ N, 105° $\frac{1}{2}$ E O: 16-03-49, M: 3 $\frac{1}{2}$					17	* Epc: 5° $\frac{1}{2}$ S, 152°E O: 10-04-16, M: 5 $\frac{3}{4}$ -6					
	WW	P	15	04	06		ZS	+P	10	13	20	
		iS			17			PP		15	07	
	SN	eP			33			PPP			58	
	LC	eP _n			30			eS		20	17	
		P			33			PS			31	
		(S _n)			58			SS		23	46	
		S		05	02			CT	+P	13	26	
	YC	P		04	33			NK	+P		37	
		S		05	00			CC	eP		14	19
								PK	+P		28	
16	* Epc: 14°N, 120° $\frac{1}{2}$ E O: 12-36-24, h: 180km ca.							PP		15	36	
								eS		22	21	
								PS			36	
	CT	-P	12	39	09			ScS		24	15	
		S		41	38			SS		26	07	
	ZS	+P		40	20			KM	+P	14	38	
		eS		43	30			LC	-P		15	06
	NK	eP		40	31				PoP		52	
		S		45	54				eS	23	27	

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
17	LC	PS	10 23 43	21	ZS	-P	05 33 44
		ScS	24 50			S	25 00
	LS	+P	15 15		CT	eP	33 53
						S	35 16
						SS	38
17	Epc: 37°N, 140° ¹ / ₂ E O: 11-32-43, M: 4 ¹ / ₂				NK	-iP	34 03
						iPP	11
	CC	eP	11 36 07			S	25 32
		iPP	17		SA	P	16
		eS	38 42		PK	P	53
	ZS	P	36 57			eS	38 59
		iPP	37 15		KM	P	36 08
		PPP	20			PP	19
		S	40 15		TU	e(P)	16
	NK	+P	37 11		LC	+iP	32
		eS	40 37			PP	49
	PK	eP	37 17			eS	40 02
		PP	32		LS	P	37 54
		PPP	43			eS	42 34
		eS	40 50				
	CT	iSS	41 19	21	Epc: 14° ¹ / ₂ S, 174°W O: 20-14-45, M: 5 ³ / ₂		
		+P	38 37		ZS	e(P)	20 26 45
		ePP	39 29		NK	e(P)	51
		PcP	41 52		CC	eP	59
		S	43 16		CT	e(P)	27 04
	LC	-P	38 56		PK	eP	23
		PP	39 56			PcP	31
		ePPP	40 12			eS	37 51
		PcP	42 00		KM	eP	27 51
		S	43 49		LC	e(P)	28 01
		SS	44 25		SA	eP	01
	KM	(P)	39 39		LS	e(P)	48
		S	45 06				
	LS	+P	40 43	21	Epc: 5° ¹ / ₂ S, 104°E O: 32-37-34 h: 200km ca., M: 6 ³ / ₂		
		eS	46 58		CT	+P	22 43 25
20	*Epc: 60°S, 25°W O: 21-15-02					pP	44 10
	LS	+PKP	21 34 09			sP	30
		PP	37 32		KM	+iP	45 30
	KM	-PKP	34 13			pP	44 13
		PP	37 30			(eP)	30
	CT	PKP	34 19			PP	36
		PP	37 40			PPP	53
	NK	+iPKP	34 34			iS	48 17
	ZS	+PKP	34			sS	49 28
						SS	50 09
21	Epc: 25°N, 121° ¹ / ₂ E O: 05-32-04, M: 4 ³ / ₂				LS	+P	44 26

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s								
21	LS	sP	22 45 27	21	LC	P	00 06 02								
		iPP	56			iS	13 03								
		iPcP	46 44			TU	eP	06 05							
		iS	49 52			LS	+P	25							
		sS	51 06			iS	13 47								
	ZS	SS	52 34		22	Epc: 45°N, 101° $\frac{1}{2}$ E									
		+P	44 42			O: 11-13-13, M: 4 $\frac{1}{2}$									
		pP	45 34			YM	e	11 15 25							
		sP	47				S	16 33							
		PP	46 28				WW	S	17 13						
	PcP	47 00	YC				e	15 47							
	(S)	50 35	S				17 24								
	NK	sS	51 49			LC	eP	15 30							
		+iP	44 51			23	Epc: 44°N, 150° $\frac{1}{4}$ E								
		i	45 35				O: 02-57-56, M: 5 $\frac{1}{2}$								
i		47	CC	P			03 02 04								
iPP		46 30		S			05 18								
S	50 41	PK		eP			03 26								
sS	51 49	ZS		+P			36								
P	44 52	eS		08 08											
SA	sP	45 49	NK	+P	03 45										
	+P	45 01	PP	04 34											
	pP	45	eS	08 25											
	sP	59	LC	+P	04 57										
	PP	46 43	PP	06 12											
LC	iS	51 01	PcP	07 31											
	eP	45 20	S	10 31											
	eP	44	CT	eP	05 09										
	pP	46 27	PP	06 42											
	sP	41	eS	10 31											
WW	PcP	47 12	LS	eP	06 40										
	PP	32	23	Epc: 30° $\frac{1}{4}$ N, 129°E											
	PPP	48 21		O: 05-53-00, M: 4 $\frac{1}{2}$											
	iS	52 15		ZS	eP	05 54 44									
	+P	46 29		NK	eP	55 14									
ipP	47 14	PK		eP	56 25										
PK	sP	27		LC	eP	57 59									
	(S)	53 34		eS	06 01 58										
	CC	Epc: 6°S, 131°E		O: 23-57-16, M: 5 $\frac{3}{4}$	CT	eP	00 03 56								
								ZS	eP	04 34					
											NK	eP	04 46		
KM														+iP	05 03
	S	eP		06 52											
					S	S	12 43								
								24	Epc: 22°S, 170°E						
O: 13 09 42, M: 5 $\frac{1}{2}$															
CT			eP						13 21 05						

0.1 m/s

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s	
24	CT	eS	13 30 23	28	*Epc: 11°S, 74°W O: 11-47-40, M: 6½			
	NK	eS	43		CC	PKP	12 07 14	
	PK	eP	21 53		PK	PKP	27	
		eS	31 54			ePP	11 09	
	KM	+P	21 59		NK	PKP ₁	07 35	
		S	32 08			PKP ₂	08 02	
	P	22 22			PP	11 41		
26	*Epc: 15°S, 168°E O: 09-25-54					LC	+PKP	07 36
						PP	11 43	
	CT	+P	09 36 32		LS	PKP	07 40	
		e	37 01		ZS	PKP	42	
	KM	+iP	30		CU	PKP ₁	43	
		i	38 01		PKP ₂	08 29		
		i	13		PP	12 31		
		S	46 58	KM	PKP	07 43		
	P	37 54		PP	12 37			
	S	47 42						
	+iP	38 32						
27	Epc: 43°N, 144°E O: 17-17-37, M: 5.9			30	Epc: 38°N, 104°E O: 13-54-45, M: 4½			
	CC	P	17 20 49		WW	iP	13 55 11	
		eS	23 16			iS	27	
	PK	e(P)	22 15		YC	iP	22	
		eS	25 52			S	45	
	ZS	eP	22 42		LC	-P _n	29	
	LC	eP	23 54			P	32	
		eS	28 51			S	56 01	
	LS	+P	25 40		TS	eP	55 57	
		eS	32 03			S	56 54	
27	Epc: 52°N, 169°W O: 19-03-47, M: 5½				PT	eP	12	
					S	57 25		
	CC	eP	19 11 49	YM	e(P)	56 34		
	PK	eP	12 51	SA	eP _n	13		
		eS	20 05		eP	31		
	ZS	P	13 14		iS	57 45		
		S	20 51	YM	eP	56 34		
	NK	eP	13 21		eS	57 43		
	TU	eP	44	CU	eP	53 43		
	LC	eP	14 03	PK	eS	58 56		
	KM	P	58	NK	eP	06		
		eS	24 02	LS	eP	06		
		eP	15 20	ZS	e	34		
		PcP	56		eS	14 01 35		
		eS	24 45	CC	eP	13 58 44		
	ScS	25 26	CT	eP	51			

Date Sta. Phase h m s | Date Sta. Phase h m s

1 Epc: $13^{\circ}\frac{1}{2}S$, $167^{\circ}\frac{1}{2}E$
 O: 00-29-17
 h: 200km ca., M: $6\frac{1}{2}$

ZS	+iP	00	39	22
	ipP		40	08
	isP			31
	PP		41	49
	iS		47	35
	PS		48	16
	sS			54
	i		50	22
CT	+iP		39	35
	i			38
	epP		40	16
	sP			41
	iS		48	07
	i		49	19
NK	+iP		39	39
	i			43
	pP		40	25
	isP			47
	PP		42	05
	iS		48	04
	sS		49	19
PK	+iP		40	10
	i			23
	pP		41	09
	sP			28
	iS		49	21
	PS		50	24
	sS			44
SA	P		40	32
	pP		41	16
	S		49	42
	sS		51	02
KM	+iP		40	33
	pP		41	20
	sP			41
	iS		49	49
	i		50	29
	sS		51	11
CU	+iP		40	40
	ipP		41	26
	isP			49
	S		50	00
	PS		51	05
	sS			24
	i		52	04
	SS		54	55
LS	+iP		41	34
	pP		42	24
	sP			46

1 Epc: $1^{\circ}S$, $120^{\circ}\frac{1}{2}E$
 O: 09-31-42, *M: $5\frac{1}{4}$

CT	eP	09	37	04
	eS		41	16
KM	eP		37	58
ZS	eP		38	05
	eS		13	13
NK	eP		38	17
	eS		43	29
CU	eP		38	32
LC	eP		39	14
PK	eP			23
	eS		45	53
LS	eP		39	26
CC	eP			52

1 * Epc: $25^{\circ}\frac{1}{2}N$, $141^{\circ}E$
 O: 12-33-28
 h: 400km, M: 6.1

ZS	e	12	37	18
	S		40	17
CC	P		37	55
	S		41	29
CU	eP		39	33
LC	P			36
KM	P			49
LS	eP		41	07

3 * Epc: $8^{\circ}S$, $127^{\circ}E$
 O: 09-27-14

KM	+P	09	35	02
LC	P		36	05
LS	+iP			24

3 * Epc: $36^{\circ}\frac{1}{2}N$, $22^{\circ}E$
 O: 20-18-16, M: 5

LS	P	20	28	10
LC	P			51

5 * Epc: $36^{\circ}\frac{1}{2}N$, $45^{\circ}\frac{1}{2}E$
 O: 05-21-33, M: 5.5

LS	P	05	29	02
LC	P		30	07
	eS		37	03

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
5	Epc: $9^{\circ}\frac{1}{4}S$, $27^{\circ}\frac{1}{4}E$				M: 6.4	8	CU	-PKP ₁	13	00	37	
	O: 06-31-39,							PKP ₂	01	50		
	LS	-iP	06	43				09	pPKP ₂	02	36	
		eS		52				31	PP	05	45	
	KM	-iP		43				56	PKP ₁	00	37	
		S		54				04	pPKP ₁	01	27	
	CU	-iP		44	09	PKP ₂		51				
	LC	iP			17	e(PP)	05	49				
7	* Epc: $35^{\circ}\frac{1}{2}N$, $71^{\circ}E$				M: 5	8	KM	-PKP ₁	00	38		
	O: 14-47-35,							pPKP ₁	01	22		
	LS	eP	14	51				46	PKP ₂	02	42	
		eS		54				54	pPKP ₂	03	22	
	LC	e		53				23	PP	05	46	
	KM	e						55	-PKP ₁	00	40	
	eS		58	33	pPKP ₁	01	30					
7	* Epc: $50^{\circ}N$, $158^{\circ}\frac{1}{2}E$				M: 5	8	CT	PKP ₂	02	33		
	O: 21-57-03							pPKP ₂	03	24		
	CC	eP	22	02				12	PP	06	24	
	LC	P		04				53	-PKP ₁	00	40	
	KM	e(P)		05				36	pPKP ₁	01	30	
	LS	eP		06				30	PKP ₂	02	33	
8	* Epc: $24^{\circ}S$, $67^{\circ}W$				M: $6\frac{1}{4}-6\frac{1}{2}$	8	LS	eP	15	14	24	
	O: 12-40-46							NK	eP		54	
	h: 200km ca.,							PK	eP	16	32	
	CC	-PKP	13	00				25	CC	eP	53	
		pPKP		01				14	CU	eP	17	08
		PP		04				43	KM	eP		21
LS	-PKP ₁		00	29	LS	eP	18	55				
	pPKP ₁		01	20								
	PKP ₂			55								
	PP		04	56								
	iSKKS		11	25								
	SS		24	55								
LC	-PKP ₁		00	35								
	pPKP ₁		01	25								
	i		02	22								
	ePP		05	17								
	SKKS		11	54								
ZS	-PKP ₁		00	35								
	pPKP ₁		01	26								
	PKP ₂			48								
	pPKP ₂		02	37								
	PP		05	41								
8	* Epc: $25^{\circ}\frac{1}{2}N$, $127^{\circ}\frac{1}{2}E$				M: 5	9	LS	P	02	50	05	
	O: 15-12-20							ePP	52	17		
	ZS	eP	15	14				24	eS	57	32	
	NK	eP						54	P	50	55	
	PK	eP						32	CU	51	09	
	CC	eP						53	KM		23	
CU	eP			08	CC	eP	52	05				
KM	eP			21								
LS	eP			55								
9	* Epc: $36^{\circ}\frac{1}{2}N$, $27^{\circ}\frac{1}{2}E$				M: $5\frac{1}{4}-5\frac{1}{2}$	9	CC	-PKP ₁	05	00	15	
	O: 02-40-46,							i	01	15		
	CC	-PKP	13	00				25	PP	05	02	
		pPKP		01				14	-PKP ₁	00	12	
		PP		04				43	pPKP ₁		51	
	LS	-PKP ₁		00				29	LS	-PKP ₁		51
	pPKP ₁		01	20								
	PKP ₂			55								
	PP		04	56								
	iSKKS		11	25								
	SS		24	55								
LC	-PKP ₁		00	35								
	pPKP ₁		01	25								
	i		02	22								
	ePP		05	17								
	SKKS		11	54								
ZS	-PKP ₁		00	35								
	pPKP ₁		01	26								
	PKP ₂			48								
	pPKP ₂		02	37								
	PP		05	41								
9	* Epc: $31^{\circ}S$, $65^{\circ}\frac{1}{2}W$				M: $6\frac{3}{4}$	9	LS	-PKP ₁	05	00	15	
	O: 04-40-20							i	01	15		
	h: 100km ca.,							PP	05	02		
	CC	-PKP ₁	05	00				15	-PKP ₁	00	12	
		i						15	pPKP ₁		51	
		PP						02				

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s	
9	LS	PKP ₂	05 01 02	12	*Epc: 52°N, 169° ¹ / ₂ W	O: 05-38-16, M: 6.4		
		pPKP ₂	38					
	KM	ePP	04 39		✓	CC	+iP	05 46 17
		PKP ₁	00 19			PK	eP	47 18
	CU	sPKP ₁	01 08		✓	LC	+P	48 30
		-PKP ₁	00 20			KM	P	49 27
	PK	PKP ₂	01 09		✓	LS	+P	47
		PKP	00 20					
	LC	sPKP	01 11		✓	12	*Epc: 1° ¹ / ₂ S, 98°E	
		PP	05 26			O: 06-25.6		
	ZS	PKP ₁	00 21		✓	KM	P	
		sPKP ₁	01 10			LS	e(P)	
	NK	PKP ₂	36		✓	LC	P	32 45
		pPKP ₂	02 21					
	CT	PKP ₁	00 21		✓	12	Epc: 45°N, 102° ¹ / ₂ E	
sPKP ₁		01 12	O: 13-17-48, M: 4 ¹ / ₂					
CT	PKP ₂	56	✓	YM	eP	13 19 41		
	i	03 02						
CT	PP	05 48	✓	LC	eS	20 58		
	-PKP ₁	00 22						
CT	i	01 09	✓	LC	eP _n	19 58		
	PKP ₂	02 04						
CT	i	03 09	✓		S _n	21 38		
	PP	05 05						
CT	i	11 52	✓	TU	e(S)	22 20		
	PKP ₁	00 22						
CT	sPKP ₁	01 11	✓	LF	e(S)	21 12		
10	*Epc: 65°N, 152° ¹ / ₂ W		✓	PK	eP	23 04 15		
	O: 22-54-40, M: 6 ¹ / ₄ -6 ¹ / ₂							
10	PK	S	11 59	✓	LS	eP	21 57	
		S	13 45					
10	KM	eP	06 17	✓	LS	e(S)	25 26	
		e(P)	20					
10	LS	eS	15 51	✓	KM	eP	22 22	
10	LS	eS	15 51	✓	ZS	e(S)	26 02	
10	LS	eS	15 51	✓			11	
11	*Epc: 65°N, 152° ¹ / ₂ W		✓	12	Epc: 31°N, 140° ¹ / ₂ E			
	O: 05-23-54, M: 6 ¹ / ₄ -6 ¹ / ₂			O: 16-49-58	h: 100km ca., M: 4 ³ / ₄			
11	PK	eP	05 33 32	✓	ZS	-iP	16 53 53	
		eS	41 16					
11	LC	eP	34 29	✓	CC	+iP	54 00	
		S	43 02					
11	CT	eS	44 42	✓	IS	iS	57 15	
		eP	35 33					
11	KM	eS	45 02	✓	SW	eP	54 14	
		eP	35 36					
11	LS	eS	45 11	✓	NK	eS	57 34	
11	LS	eS	45 11	✓	PK	-P	54 16	
11	LS	eS	45 11	✓	PK	-P	44	
11	LS	eS	45 11	✓		ipP	55 11	
11	LS	eS	45 11	✓		isP	19	
11	LS	eS	45 11	✓		i(S)	58 42	
11	LS	eS	45 11	✓		isS	59 21	
11	LS	eS	45 11	✓	LC	eP	56 12	

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
12	LC	eS	17 01 14	15	CU	eP	18 51 28
	CU	eP	16 56 15			S	56 06
	LS	eP	57 51		LC	P	52 11
					CC	eP	46
14	* Epc: $4^{\circ} \frac{1}{2} S$, $153^{\circ} E$ O: 03-58-09, M: $5^{\frac{3}{4}}$			17	Epc: $3^{\circ} S$, $147^{\circ} E$ O: 07-02-25, M: $5^{\frac{1}{2}}$		
	ZS	eP	04 06 45		ZS	eP	07 10 21
		eS	13 32			S	16 42
	NK	+P	07 02		CT	e(P)	10 24
		S	14 04			iS	16 48
	LC	eP	08 31		NK	-eP	10 39
		iS	16 50			PcP	12 33
	LS	P	09 19			iS	17 15
		eS	18 17		CC	eP	11 29
						ePP	13 25
14	Epc: $12^{\circ} N$, $94^{\circ} E$ O: 12-35-38, M: $4^{\frac{1}{2}}$					eS	18 39
	✓ KM	P	12 39 20		PK	-eP	11 39
		eS	42 16			S	18 56
	✓ LS	-P	39 57		KM	eP	11 35
		PP	40 14			eS	18 54
		(S)	43 20		SA	eP	11 46
		SS	44		LC	eP	12 11
	✓ CU	-P	40 22			PP	14 22
	✓ LC	-P	41 12			S	20 00
	✓ PK	P	42 26		YC	eP	12 27
	✓ CC	-P	43 28		LS	eP	55
15	* Epc: $51^{\circ} \frac{1}{2} N$, $173^{\circ} \frac{1}{2} W$ O: 04-24-50			17	Epc: $50^{\circ} \frac{1}{2} N$, $179^{\circ} W$ O: 15-38-20, M: $5^{\frac{1}{4}}$		
	✓ CC	P	04 32 32		CC	+P	15 45 36
	ZS	-iP	33 58		PK	+P	46 41
	NK	eP	34 01		NK	+iP	47 07
	LC	-P	49		ZS	+iP	12
	KM	-P	35 44		LC	+P	57
	LS	P	36 09		CU	+iP	48 22
					KM	+P	54
					LS	+iP	49 21
15	Epc: $10^{\circ} \frac{1}{2} N$, $122^{\circ} E$ O: 18-45-52			17	Epc: $11^{\circ} N$, $94^{\circ} E$ O: 16-42-10, M: $4^{\frac{1}{2}}$		
	GT	+P	18 49 23		KM	-P	16 45 59
	ZS	+P	50 33		LS	eP	46 37
		eS	54 15			PP	55
	NK	+P	50 46			S	50 05
	KM	+iP	51 04		CU	-iP	47 01
		eS	55 13			S	50 56

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1958 May

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
17	CT	eP	16 47 07	18	*Epc: 13°S, 167°E		
		eS	51 03		O: 12-21-18, M: 6-6 $\frac{1}{2}$		
	LC	-P	47 51				
	CC	-P	50 06		ZS	+P	12 31 40
		eS	56 32			PP	34 02
					CT	eP	31 51
						i	32 13
18	*Epc: 13°S, 167°E					S	40 26
	O: 02-32-52, M: 6 $\frac{1}{2}$ -6 $\frac{1}{2}$					SoS	41 30
						SS	44 27
	ZS	+iP	02 43 16		NK	+iP	31 56
		PP	45 39			i	32 17
		S	51 38			PoP	31
		ScS	53 06			PP	34 16
	CT	+P	43 26			iS	40 32
		PP	45 47			i	41 14
		iS	52 02		CC	+iP	32 21
		PS	21			PoP	42
		ScS	53 06			S	41 24
		SS	56 03			ScS	42 09
	NK	+iP	43 32			SS	46 06
		PP	45 57		PK	S	41 51
		iS	52 08			ScS	42 40
		ScS	53 20		KM	iS	42 19
		SS	56 22		CU	+iP	32 59
	CC	+iP	43 56			iS	42 31
		eS	52 54			SS	47 19
	PK	+iP	44 11		LC	+iP	33 13
		+PP	46 44			iS	43 01
		S	53 26			PS	38
		SS	58 01		LS	+P	33 54
	SA	eP	44 24			SKS	44 14
	KM	+P	26			iS	19
		iS	53 54			PS	45 10
		PS	54 27			SS	49 47
		i	57 13				
	LC	+iP	44 49	19	*Epc: 13°S, 167°E		
		PoP	58		O: 00-06-00, M: 5 $\frac{1}{2}$		
		iS	54 38				
		SS	59 35		ZS	P	00 16 24
	LS	+P	45 30			S	24 49
		PoP	39			ScS	26 18
		i	46 42		CT	P	16 36
		SKS	55 50			S	25 10
		S	55		NK	S	14
		iScS	56 06		CC	+iP	17 05
		iPS	51		PK	P	20
		SS	03 01 20			S	26 35
						ScS	27 27
					KM	+P	17 35
18	KM	+P	03 42 52			S	27 06
	SA	eP	55		CU	P	17 43
	LC	+P	43 13			S	27 15
	LS	+P	55				

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
19	LC	+P	00 17 58	22	CU	e(P)	08 20 07
		S	27 48		KM	eP	15
		ePS	28 25		LC	e	21 18
	LS	eP	18 39				
		i	19 42				
		SKS	28 58	22	Epc: 3°S, 147°E O: 15-08-00, M: 5¼		
		eS	29 04		ZS	eP	15 15 55
		PS	57			eS	22 15
19	Epc: 45°½N, 99°½E O: 02-18-23, M: 4½				CT	eP	15 57
		eS	22 15			eS	22 15
	YM	e	02 19 37			eSS	25 17
		S	20 55		NK	P	16 15
	LC	eP	39			S	22 51
		eS	22 23		CC	eP	17 06
	PT	e(S)	23 00			S	24 22
	PK	e(P)	21 39		KM	eP	17 07
	SA	S	24 21			eS	24 27
	CU	e(S)	55		PK	eP	17 10
	LS	eS	25 38		LC	P	41
	KM	-P	22 54			eS	25 29
					LS	eP	18 30
						eS	26 58
20	Epc: 22°N, 102°½E O: 19-13-44, M: 4¼			24	*Epc: 4°S, 151°½E O: 10-01-42		
	KM	+P _n	19 14 38		ZS	eP	10 10 04
		-iP	47			eS	15 43
		eS _n	15 14		NK	eP	10 22
		S	28			eS	17 16
	CU	e(i)	16 01	24	Epc: 6°S, 147°½E O: 16-33-01		
	CT	eP	19		ZS	-eP	16 41 20
		e(S)	18 50		NK	-P	37
21	Epc: 22°½N, 121°E O: 04-45-20, M: 4½				KM	eP	42 27
	CT	eP	04 47 09		CC	eP	29
		eS	48 32		PK	-eP	32
	PK	eP	49 35		LS	-P	43 45
		(S)	53 08	24	Epc: 25°½N, 95°E O: 20-07-25, M: 4½		
	LC	P	49 59		LS	(P)	20 08 47
		(S)	53 35			(S)	09 50
	LS	eP	51 15		KM	+iP	13
22	Epc: 31°½N, 89°E O: 08-16-57, M: 4¼					(S)	10 41
	LS	+i(P _n)	08 17 41		LC	(P)	52
		(S) _n	1° 15			S	13 26

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
24	Epc: 11°N, 43°E O: 23-53-33, *M: 5½			25	ZS	+P	15 03 20
						S	10 25
	LS	P	24 02 14		NK	P	03 26
		eS	09 11			PP	05 22
	LC	P	03 41			eS	10 35
		PcP	38			ScS	13 15
		S	11 51		LC	P	04 16
	PK	P	04 48			PP	06 23
		S	13 58			S	12 08
	NK	P	05 02		CT	eP	04 37
	ZS	P	14		CU	P	40
		eS	14 44		KM	-P	05 12
	CC	P	05 27			PP	07 37
						eS	13 52
					LS	iP	05 38
						S	14 42
						PS	57
						ScS	15 38
25	Epc: 51°N, 177°W O: 00-35-21, M: 5¼			25	Epc: 31°N, 130°E O: 17-40-44, M: 5		
	CC	P	00 42 43		ZS	-iP	17 42 37
		S	48 45			S	44 05
	PK	P	43 52		NK	eP	43 05
		S	50 40		CC	+iP	57
	ZS	+P	44 12			eS	46 25
	NK	eP	18		PK	-iP	44 11
	LC	P	45 07			eS	46 54
		ePP	47 13		CT	-P	44 46
		S	52 59		CU	iP	45 45
	CT	P	45 29			S	49 48
	KM	P	46 03		LC	P	45 46
	LS	P	31			S	49 49
		S	55 35		KM	P	46 10
						PPP	58
						S	50 31
					LS	eP	47 29
25	Epc: 11°N, 43°E O: 02-53-48			25	*Epc: 3°S, 77°W O: 21-11-45 h: 100km ca., M: 6½		
	LS	eP	03 02 24		CC	PKP	21 30 59
	KM	eP	03 36			PP	33 33
	LC	P	51			i	45
	PK	P	04 56			PKS	34 29
	NK	eP	05 08			SS	50 21
	ZS	eP	21		PK	PKP	31 09
	CC	-P	37			PP	34 13
						i	26
25	Epc: 51°N, 177°W O: 14-54-30, M: 5¼						
	CC	iP	15 01 56				
		PP	03 26				
	PK	+P	02 59				
		S	09 49				

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
27 Epc: $35^{\circ}\frac{1}{2}N$, $27^{\circ}E$ O: 18-27-42 h: 150km ca., *M: $4\frac{3}{4}$							
LS	-P		18 36 51				
	S		44 11				
LC	P		37 39				
	ePP		38 15				
	S		45 42				
	esS		46 45				
	iScS		47 12				
CU	-P		37 55				
	S		46 13				
	eScS		47 30				
KM	eP		38 08				
	ePP		40 34				
	S		46 36				
	iScS		47 47				
PK	P		38 23				
	pP		59				
	S		47 05				
CC	eP		38 46				
	epP		39 24				
28 *Epc: $8^{\circ}N$, $93^{\circ}E$ O: 00-17.7							
LS	eP		00 21 36				
CU	eP		22 01				
LC	P		53				
29 *Epc: $27^{\circ}\frac{1}{2}N$, $139^{\circ}\frac{1}{2}E$ O: 05-21-29 h: 450km ca., M: 6.2							
				28	LC	eP	02 56 35
						(S)	58 38
					CU	eP	57 42
					LS	eP	58
					KM	eP	58 37
					NK	e(P)	41
				29			
					ZS	eP	05 24 57
						S	27 48
					NK	-iP	25 23
						iS	26 35
					CC	+iP	25 35
						S	28 57
					PK	P	26 02
					CU	-iP	27 16
						eS	31 53
					LC	-iP	27 19
					KM	-iP	34
					LS	-P	28 51
						eS	34 46
30 Epc: $7^{\circ}S$, $154^{\circ}E$ O: 05-50-25							
				30	NK	eP	05 59 36
						S	06 06 59
					KM	eP	00 35
					CU	+iP	43
						eS	09 03
					LC	P	01 03
						eS	09 39
					LS	P	01 48
						S	11 03
28 *Epc: $24^{\circ}\frac{3}{4}N$, $122^{\circ}\frac{1}{4}E$ O: 16-11-40 h: 100km ca., M: $5\frac{1}{2}$							
				30	ZS	P	16 13 13
						S	14 25
					NK	eP	13 32
						S	14 58
					CT	eP	13 43
						S	15 19
					SA	P	12
28 Epc: $45^{\circ}N$, $93^{\circ}E$ O: 02-53-58, M: $4\frac{1}{2}$							

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
30	PK	+P	16	15	25	31	CT	i	19	43	37
		iS		18	21		NK	+P			26
	CU	-iP		15	33			i			42
		eS		18	37			PP			45 55
	KM	P		15	44			iS			52 20
		sP		16	16		CC	+iP			43 49
		S		19	03			i			44 05
	CC	+iP		16	00			i			45 20
		sP			30			PP			46 19
		iS		19	35			S			53 02
		sS		20	04		PK	+P			44 06
	LC	-P		16	03			i			: 21
		PP			22			S			53 33
		sP			34		SA	P			44 24
		S		19	33		CU	+P			27
	LS	-P		17	26			i			44
		sP		18	01			iS			54 16
		PP			18		LC	+P			44 42
		S		22	02			i			57
		e(sS)			41			S			54 46
							LS	P			45 19
								i			35
								SKS			55 46
								S			56 00
								i			57 14

30 Epc: $52^{\circ}\frac{1}{2}N$, $168^{\circ}W$
 O: 18-04-47, M: 6

CC	+iP	18	12	53
	eS		19	22
PK	P		13	54
ZS	P		14	16
	eS		21	52
NK	P		14	22
LC	P		15	05
	PcP			45
CU	iP			30
	S		24	10
KM	P		16	04
	iS		25	16
LS	P		16	21
	PcP			41
	S		25	52
	i		26	06
	ScS			33

31 Epc: $15^{\circ}S$, $169^{\circ}E$
 O: 19-32-30, M: $6\frac{3}{4}$

ZS	+P	19	43	11
	i			26
	i		44	42
	PP		45	31
	S		51	48
	i		53	19
CT	i(P)		43	26

June

2 O: 07-38-36

KM	-iP	07	43	11
LS	eP			37
	S		47	39
CU	P		44	08

3 Epc: $15^{\circ}\frac{1}{2}S$, $169^{\circ}E$
 O: 19-31-53, M: $6\frac{1}{2}$

ZS	P	19	42	33
	S		50	15
CT	P		42	43
	S		51	30
NK	+P		42	48
	S		51	43
	i		52	52
CC	+iP		43	12
PK	+iP			28

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
3	PK	S	19	52	56	8	Epc: 53°N, 167°W					
	SA	P	43	39	O: 00-38-56							
	KM	+iP		41								
		S	53	23			CC	P	00	47	02	
	CU	+P	43	48				S		53	31	
		S	53	36			PK	P		48	05	
	LC	iP	44	03				eS		55	21	
		S	54	04			ZS	P		48	27	
LS	P	44	41		NK	P			32			
	SKS	55	06		LC	P		49	12			
	S		20		CU	eP			38			
					CT	eP			40			
					KM	eP		50	09			
					LS	eP			29			
4	Epc: 53°N, 167°W					8	Epc: 8°N, 94°E					
	O: 14-00-40, M: 5 3/4				O: 00-46-34, M: 5 1/2							
	CC	+iP	14	38	01							
		S	44	33			KM	+P	00	50	59	
	PK	+iP	39	01			LS	+P		51	23	
		S	46	22				S		55	16	
	ZS	+iP	39	25			CT	+iP		51	50	
		S	47	07				S		56	07	
	NK	iP	39	29			CU	P		51	54	
	SA	P	40	05			LC	P		52	37	
	LC	+P		12			NK	P		53	15	
		S	48	32			ZS	eP			22	
	CU	+iP	40	37			PK	P			51	
		S	49	20			CC	P		54	51	
	CT	P	40	39				S	01	01	28	
	S	49	26									
KM	iP	41	08									
	iS	50	23									
LS	S		56									
	iScS	51	55									
6	*Epc: 8°N, 84°W					9	Epc: 52°N, 167°W					
	O: 00-11-14, M: 6 1/2 - 6 3/4				O: 15-59-03, M: 6.1							
	LS	PP	09	30	52		CC	iP	16	07	17	
		PP		54	20		PK	eP		08	18	
	CT	ePKP	30	55				eS		15	42	
	(PP)	34	28		ZS	+P		08	41			
KM	ePKP	30	58			eS		16	27			
	(PP)	34	53		NK	eP		08	47			
					LC	+P		09	28			
					CU	+P			53			
						eS		18	40			
					KM	eP		10	25			
						eS		19	39			
					LS	eP		10	44			
6	*Epc: 5°N, 82°W					10	Epc: 52°N, 167°W					
	O: 19-15-28, M: 6				O: 00-10-26							
	KM	PP	19	38	14							
	LC	PP			34		PK	eP	00	20	41	
LS	ePKP			35								
	PP			38								

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s					
10	PK	eS	00 27 04	12	PK	1	21 02 14					
	ZS	+P	20 05		✓	ZS	S	09 34				
		S	27 51				02 33					
	LC	+P	20 51		✓	ZS	+iP	02 34				
		S	28 58				10 19					
	CU	+P	21 16		✓	PT	eP	02 35				
	KM	+P	47			NK	+iP	37				
LS	P	22 07	✓	SA	i	41						
					✓	S	10 28					
10	Epc: 27° ¹ / ₂ N, 140°E			✓	SA	P	03 15					
	O: 04-53-35				LC	+iP	19					
	h: 470km ca., M: 5 ¹ / ₂				✓	i	24					
	✓ ZS	P	04 57 05		✓	CT	P	03 46				
			59 55					i	50			
	✓ NK	-iP	57 27		✓	CU	+iP	12 31				
			59 31					03 44				
	✓ CC	-P	05 00 34		✓	KM	+iP	49				
			04 57 38					12 30				
	✓ PK	eP	05 01 00		✓	LS	+iP	04 16				
			04 58 06					i	20			
	✓ CT	eP	05 00 21		✓	LS	+P	13 32				
			01 47					04 36				
	✓ CU	iP	04 58 23		✓	LS	i	40				
			59 19					eS	14 08			
✓ LC	-P	05 03 50	✓	15	*Epc: 9°S, 150°E	O: 11-32-38, M: 5 ¹ / ₄ -5 ¹ / ₂						
		04 59 22					ZS	eP	11 41 28			
✓ KM	-iP	05 01 13	✓	CU	eP	42 46						
		04 22				S	50 54					
✓ LS	-P	00 55	✓	LC	eP	43 12						
		06 42										
10	Epc: 30° ¹ / ₂ N, 50° ¹ / ₂ E			✓	15	*Epc: 18°S, 178° ¹ / ₂ W	O: 14-54-37					
	O: 07-04-01, *M: 5 ¹ / ₂							h: 600km ca., M: 6 ¹ / ₄				
	✓ LS	eP	07 10 55						✓	ZS	+P	15 05 29
			16 25									ipP
	✓ LC	P	12 14						✓	KM	-iP	05 32
26			iS	14 27								
✓ NK	eP	19 11	✓	NK	+iP	05 42						
		13 51				ScS	49					
✓ CC	iP	14 04	✓	NK	+iP	07 34						
						PP	07 22					
12	Epc: 52° ¹ / ₂ N, 166° ¹ / ₃ W			✓	12	Epc: 52° ¹ / ₂ N, 166° ¹ / ₃ W	O: 20-52-56, M: 6					
	✓ CC	+iP	21 01 09					✓	NK	+iP	05 42	
			02 09								PP	07 39
✓ PK	+P	02 09	✓	SP	08 45							
				✓	i	09 25						

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
15	NK	iS	15	14	53	16	NK	e(P)	08	25	08
		iSKS	15	04			CC	eP			15
	CT	-iP	05	44			PK	e(P)			34
		pP	07	41			CU	eP	26	07	
		iS	14	54				eSKS	36	36	
	CC	+iP	05	53				iS			58
		pP	07	51							
		sP	09	02							
		PP		09							
		iS	15	16		17	*Epc: 27°N, 141°E O: 15-07-30				
		ScS		24			ZS	eP	15	11	47
	PK	+iP	06	11			NK	P			12 10
		pP	08	12			PK	P			13 11
		sP	09	28			CU	eP			14 04
		PP		46			KM	eP			20
		iSKS	15	40			LS	P			15 40
		iS		48							
		i	16	46							
	SA	eP	06	27		17	Epc: 24° $\frac{1}{2}$ N, 142° $\frac{3}{4}$ E O: 19-06-40 h: 60km ca., M: 5				
		iSKS	15	57			NK	+iP	19	11	35
		iS	16	18				i			54
	CU	-iP	06	37				S	15	36	
		ipP	08	38			CC	+iP	11	52	
		i	09	39				pP	12	26	
		iSKS	16	11				eS	16	06	
		iS		39			PK	+P	12	19	
	LC	-iP	06	48				eS	16	51	
		ipP	08	50			CT	eP	12	21	
		isP	09	50				pP			47
		IPP	10	38				sP			55
		i	12	34				S	16	56	
		iSKS	16	25			CU	+iP	13	27	
		iS	17	01				sP	14	03	
	LS	e(P)	07	25				PP			40
		iSKS	17	07				eS	18	53	
		iS	18	09			LC	+iP	13	34	
								PP	1+	57	
								S	19	00	
15	*Epc: 9° $\frac{1}{2}$ S, 150°E O: 17-20-56, M: 5 $\frac{3}{4}$						KM	+iP	13	42	
	ZS	eP	17	29	47			sP	14	19	
	PK	e(P)	30	59				PP	15	11	
	CU	e(P)	31	01				e(S)	19	17	
		eS	39	05			LS	+iP	15	04	
	LC	eP	31	29				PP	16	51	
	LS	eP	32	06				eS	21	44	
		eS	41	12							
16	*Epc: 14° $\frac{1}{2}$ S, 177° $\frac{1}{2}$ W O: 08-13-07, M: 5 $\frac{3}{4}$					19	Epc: 49° $\frac{1}{2}$ N, 156°E O: 05-18-00, M: 5 $\frac{1}{2}$				

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
19	SW	eP	05 22 33	22	CC	-iP	05 31 51
	CC	P	54			iS	33 44
		S	26 51		ZS	-iP	32 26
	PK	eP	24 06			S	34 51
	TU	eP	17		NK	-iP	32 41
	ZS	+P	29		PK	-P	17
		PP	25 45			iS	35 28
		S	29 41		KM	eP	11
	NK	e(P)	24 35				
	LC	eP	25 33				
		PP	26 56				
		S	31 35				
	SA	eP	25 40				
	CU	eP	26 01				
		S	32 25				
	KM	eP	26 38				
		PP	28 32				
		eS	33 27				
	LS	eP	27 15				
		PoP	28 31				
		eS	34 39				

23 Epc: 49°N, 103°E
O: 05-09-58, M: 5 1/2

PT	P	05 12 24
PK	eP	13 04
	S	15 29
SA	P	12
SW	eP	35
CC	P	57
	sP	14 03
CU	S	17 02
	eP	14 18
NK	+iP	44
LS	-P	51
	S	18 44
	SS	19 22
ZS	eP	15 03
KM	P	14
	i	17 53
	iS	19 29
CT	e(P)	15 47
	e(S)	20 27

19 * Epc: 52°S, 140°E
O: 18-02-15, M: 5 3/4 - 6

KM	eP	18 14 54
	eSKS	25 14
	S	22
ZS	e(P)	14 55
	S	25 23
NK	e(P)	15 02
	S	25 40
CU	SKS	45
	S	26 02
LS	e(P)	15 36
LC	e(P)	40
	S	26 43

24 Epc: 40°N, 73°E
O: 04-48-20, M: 5

LS	eP	04 51 52
	eS	54 33
LC	+P	52 59
	e(S)	56 33
PT	eP	53 34
KM	+iP	49
	PP	54 27
	PPP	35
	i	55 15
	eS	58 13
PK	e	54 38
	eS	59 07
NK	eS	05 00 21
ZS	eS	54

20 Epc: 31°N, 129°E
O: 19-17-10, M: 4 1/4

ZS	eP	19 18 59
NK	eP	19 29
CC	P	20 18
PK	P	31
CU	P	22 06
KM	eP	31

22 * Epc: 37°N, 135°E
O: 05-29-29
h: 350km, M: 5.7

25 * Epc: 30°N, 130°E
O: 01-49-02
ZS P 01 51 07

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1958 June

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
25	ZS	eS	01	52	43	25	Epc: 5 ⁰ ₂ S, 152°E				
	NK	eP		51	37		O: 12-43-55, M: 5				
	PK	+P		52	49		✓ ZS	+P	12	52	26
		eS		55	47			eS		59	15
	LC	e		54	26			✓ CT	+P		52
S			58	19	✓ NK	+P			52	43	
25	Epc: 4°S, 145°E					✓ PK	+P		53	37	
	O: 09-36-30						S		13	01	22
h: 50km, M: 6 ¹ / ₂					✓ CT	PS				36	
	+P		09	44		13	✓ KM	eP	12	53	41
	isP				30	✓ i				56	
	PP			45	44	✓ LC	P		54	13	
	(S)			50	25	✓ LS	+P			57	
✓ ZS	+P		44	17		26	Epc: 54 ⁰ ₁ N, 159°E				
	sP			36			O: 04-38-24				
PP		45	48		h: 130km ca., M: 5 ³ / ₄						
is		50	27		✓ SW		iP	04	43	09	
+P		44	33		✓ DR		eP			17	
✓ MK	sP			52		CC	-iP			32	
	PP		46	18		isP		44	15		
PcP				24		PPP			26		
is		51	01		e			47	20		
FL	eP		44	44		is			37		
DR	eP		45	12		i		48	11		
✓ KM	+iP			27		SS			38		
	i		46	30		ScS		54	21		
PP		47	22		PK	-iP		44	42		
PPP		48	17		pP		45	11			
is		52	38		sP			27			
CC	+P		45	28	eS		49	38			
sP				48		sS		50	28		
PcP		46	51		ScP		51	02			
S		52	40		SS			36			
PK	+iP		45	34		i		52	01		
	isP			52		iScS		55	01		
PP		47	28		PT	eP		45	11		
PPP		48	32		ZS	-iP			11		
S		52	49		pP				41		
i			52		sP				56		
PT	eP		46	02	ePP		46	36			
LC	P			00	PPP		47	02			
sP				24	i				30		
S		53	46		PcP				39		
i			51		e				50		
✓ LS	+iP		46	48		is			38		
	i		47	55		ScP		51	13		
is		55	11		sS				27		
ScS		56	23								
SS		59	11								

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
26	ZS	i	04	52	13	26	LS	sS	04	55	46
		SS		53	06			iScS		57	14
	NK	-iP		45	17			i		58	14
		pP			45						
		sP		46	02						
		PP			43						
		i		47	23	26	Epc: 24°N, 126°E 0: 07-39-18				
		i			32		ZS	e(P)	07	41	24
		S		50	46			eS		43	02
		ScP		51	15		NK	eP		41	52
		sS			36			eS		43	48
		i		52	13		PK	-P			33
	LC	-iP		46	05			i			45
		pP			36			sP			51
		sP			49			(S)		46	56
		PP		47	47		CC	e(P)		43	50
		i		48	31			eS		47	24
		ScP		51	39		KM	-iP		44	10
		iS		52	10			eS		48	03
		i			38		LC	P		44	22
		sS			57			PP			53
		SS		55	13		LS	eS		48	29
		iScS			54			-P		45	47
	CT	-P		46	38	26	Epc: 30° ¹ / ₂ N, 141° ¹ / ₂ E 0: 23-23-32, M: 5 ¹ / ₄				
		pP		47	08		ZS	+P	23	35	42
		sP			24			iPPP		34	02
		ePcP		48	10			eS		36	54
		iScP		51	57		CC	+P		33	48
		i		52	57			i		34	35
		S		53	14			S		37	11
		sS		54	09		NK	+P		34	04
		ScS		56	25		PK	+P			36
	KM	-iP		47	12			PP		35	04
		pP			42			eS		38	42
		sP			54			SS		39	27
		iPcP		48	29		CT	P		35	15
		PP		49	07			iS		40	14
		i			34		KM	eP		36	29
		iScP		52	14			S		42	04
		i		53	12		LS	eP		37	42
		S		54	11			eIP		30	21
		iScS		56	49			eS		44	13
		iSS		57	50						
	LS	-iP		47	39	28	* Epc: 11° ¹ / ₂ N, 162°E 0: 19-30-00, M: 5-5 ¹ / ₄				
		pP		48	10		CC	+iP	19	38	15
		sP			25						
		PP		49	48						
		i		50	32						
		iPPP			53						
		ScP		52	30						
		i		53	31						
		S		55	04						

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Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
30	ZS	+P	18	30	27	1	LS	eS	06	13	13
		S		33	49			i		14	09
	CC	eP		30	29			ScS			12
		+P			32						
	DR	eP			33						
	NK	+iP			49	1	Epc: 31°N, 143°E				
		iPP		31	12		O: 11-18-18, M: 4				
		iS		34	24						
		PoP		35	01						
	SW	eP		30	44		ZS	eP	11	22	39
		+iP		31	19			eS		26	04
	PK	iPP			44		CC	eP		22	43
		iS		35	24			eS		26	10
		SS		36	06			SS			36
	CT	+P		31	55		NK	eP		22	57
	CU	+P		32	48		PK	eP		23	29
		S		38	03			S		27	38
		SS		40	04		LC	e(P)		26	37
	LS	+P		34	24						
		S		40	55						
		iPS		41	08	22	* Epc: 18°S, 177°W				
		ScS		44	24		O: 04-48-03, h: 350km ca.				

July

1 Epc: 52°N, 177°W
O: 05-53-10, M: 5½

	CC	+iP	06	00	33
		S		06	26
	PK	+iP	01	36	
		PP	03	24	
		eS	08	21	
		ScS	11	28	
	ZS	+P	01	57	
		eS	08	59	
	NK	+P	02	03	
		S	09	09	
	LC	+iP	02	52	
		S	10	41	
		ScS	12	38	
	CT	+P	03	15	
		S	11	24	
		ScS	13	04	
	KM	eP	03	48	
		ePP	06	10	
		eS	12	25	
	LS	+iP	04	14	

	ZS	e(P)	04	59	24
		e(S)	05	08	35
	NK	S		09	07
	CT	e(P)	04	59	37
	CC	eP			49
		S	05	09	31
	PK	e(P)		00	05
	KM	eP			28
	LC	S		11	15
	LS	eS		12	21

3. * Epc: 17°S, 65°E
O: 05-45-15, M: 6

	LS	eP	05	54	33
		eS	06	01	57
	CT	eP	05	55	39
		S	06	04	02
	LC	eP	06	55	58
		ePoP		56	31
		S	06	04	34
	ZS	e(P)	05	56	36
	NK	eP			41
		eS	06	05	58
	PK	eP	05	56	56
		ePoP		57	14
		eS	06	06	29

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
3	Epc: 30°S,		179°W			4	*Epc: 18°S,		66°E		
	O: 06-27-46						O: 02-23-04				
	h: 400km ca.,		M: 5½								
✓	ZS	-iP	06	39	28		LS	eP	02	32	11
		PP		42	40			eS		39	29
		S		49	08		LC	eP		33	31
		sS		51	36						
✓	CT	-P		39	32	4	Epc: 6°N,		125°E		
		S		49	16		O: 18-34-13				
✓	NK	-iP		39	40		h: 50km ca.,		M: 5¾		
		sP		41	59	✓	CT	+iP	18	38	47
		PP		42	59	✓	ZS	+iP		39	35
		SKS		49	24			pP			49
		S			33			sP			55
✓	CC	-iP		39	58			S			43 57
		pP		41	35			+P			39 48
		PP		43	31	✓	NK	pP			40 00
		S		50	12			sP			08
✓	PK	-P		40	12		KM	+iP			40 05
		sP		42	30			pP			17
		ePP		43	52			sP			23
		SKS		50	03			PP			41 06
		iS			38			PcP			43 08
		isS		53	40			S			44 51
✓	LC	P		40	39			sS			45 12
		PP		44	38		PK	+iP			40 59
		PPP		46	51			pP			41 12
		SKS		50	35			sP			18
		S		51	27			S			46 28
✓	LS	PP		45	25		LC	+iP			41 09
								pP			21
								sP			31
								S			46 42
3	Epc: 48°N,		148°E			✓	CC	+P			41 23
	O: 12-48-02							sP			42
	h: 400km ca.,		*M: 6.1					PP			42 48
✓	CC	eP	12	51	25			S			47 08
		S		54	08		LS	+iP			41 42
✓	PK	eP		52	44			ipP			54
		eS		56	30			sP			42 01
✓	LC	eP		54	13			S			47 41
✓	NK	e(P)			23			sS			48 03
		pP		55	19						
✓	LS	eP			55						
		eS	13	02	10						
4	*Epc: 19°S,		173°W			5	*Epc: 3°N,		98°E		
	O: 00-19-28						O: 01-17.9,		h: 150km ca.		
✓	CC	+P	00	32	03		KM	e(P)	01	22	48
								eS			26 54
✓	NK	+P			06		LS	-P			23 34
✓	PK	+P			22			S			28 10
✓	KM	eP			46						

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
5 Epc: $31^{\circ}\frac{1}{2}N$, $142^{\circ}\frac{1}{2}E$ O: 23-21-30, M: $4\frac{1}{2}$						7 LC eP 14 29 30					
						eS 33 50					
						LS eP 30 13					
ZS		eP	23	25	48						
CC		eP			53						
		eS			29 15						
NK		P			26 08	8 *Epc: $21^{\circ}\frac{1}{2}S$, $174^{\circ}W$ O: 06-06-28, M: $5\frac{1}{4}-5\frac{1}{2}$					
		PP			29						
PK		eP			39						
		eS			30 39						
6 Epc: $23^{\circ}\frac{1}{2}N$, $123^{\circ}\frac{1}{2}E$ O: 19-49-30, M: $4\frac{1}{2}$											
ZS		eP	19	51	28						
		eS			52 57						
NK		eP			51 48						
		(S)			53 32						
CT		e(P)			52 02	8 *Epc: $43^{\circ}S$, $41^{\circ}\frac{1}{2}E$ O: 22-48-36, M: 6					
TU		e(P)			41						
PK		e(P)			53 41						
KM		eP			54						
		eS			57 22						
CC		e(P)			54 13						
LC		eP			20						
LS		e(P)			55 40						
7 Epc: $49^{\circ}\frac{1}{2}N$, $180^{\circ}Long.$ O: 05-15-59						9 *Epc: $20^{\circ}\frac{1}{2}S$, $178^{\circ}\frac{1}{2}W$ O: 13-54-27, h: 600km ca.					
CC		P	05	23	15						
PK		+P			24 20						
		e(S)			31 02						
ZS		+P			24 38						
LC		eP			25 38						
		eS			33 23						
CT		eP			25 57						
KM		eP			26 34						
LS		P			27 01						
7 Epc: $14^{\circ}N$, $121^{\circ}E$ O: 14-23-56						10 *Epc: $58^{\circ}.6N$, $137^{\circ}.1W$ O: 06-15-51, M: $7\frac{3}{4}-8$					
CT		P	14	26	47						
ZS		eP			27 56						
		S			30 59						
NK		eP			28 10						
		eS			31 23						
KM		P			28 32						
		S			32 10						
						CC P 06 25 44					
						PK eP 26 32					
						ZS eP 27 05					
						iS 36 26					
						NK eP 27 06					
						iS 36 27					
						LC eP 27 25					
						C-T eP 28 08					
						KM +P 22					
						PP 31 38					
						iPPP 33 54					

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
10	KM	iS	06 38 42	12	CC	+iP	03 38 33
	LS	eP	28 24		NK	+iP	35
		iS	38 53		CT	+iP	39 02
					PK	+iP	08
					LC	+iP	40 10
					KM	+iP	12
					LS	+P	41 20
11	*Epc: 21°S, 69°W O: 19-10-20, M: 6½			13	*Epc: 10°S, 161½°E O: 12-03-50 h: 100km ca., M: 5¼		
	CC	+PKP	19 30 15		ZS	+P	12 13 24
		PP	34 11			sP	58
	PK	PKP1	30 24			S	21 06
		i	38		CT	+P	13 33
		PKP2	31 05		NK	eP	40
		i	22			iS	21 26
		PP	34 45		KM	P	14 37
	LS	+iPKP1	30 26			S	23 24
		i	40		LS	P	15 46
		PKP2	31 06				
		iPP	34 50				
	LC	PKP1	30 28				
		i	43				
		ePKP2	31 22				
		PP	35 06				
	NK	+PKP1	30 29				
		i	43				
		PKP2	31 31				
		i	45				
		PP	35 18				
	ZS	+PKP1	30 30				
		i	44				
		ePKP2	31 27				
		i	42				
		PP	35 14				
	CU	+iPKP1	30 33				
		(PKP2)	31 44				
		iPP	35 30				
	KM	+iPKP1	30 32				
		i	48				
		iPKP2	31 58				
		i	32 11				
		iPP	35 48				
	CT	+PKP1	30 35				
		i	43				
		ePKP2	32 17				
		i	29				
		PP	36 21				
		iSKKS	42 56				

12 Epc: 12½°N, 165½°E
O: 03-30-00, M: 5½

ZS +iP 03 38 17

17 *Epc: 51°N, 176°W
O: 19-02-10, M: 5¼ - 6

CC +P 19 09 40

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
17	PK	+P	19	10	44	18	Epc: $25^{\circ}\frac{1}{2}N$, $122^{\circ}\frac{1}{2}E$					
		eS		17	36		O: 18-41-04					
	ZS	eP		11	05			ZS	P	18	42	36
	NK	eP			13				eS		43	45
	LC	+P		12	02			NK	eP			01
		eS		19	55				e(S)		44	34
	CU	eP		12	25			PK	e(P)			46
	KM	P			57			KM	eP		45	16
	LS	+P		13	23			LC	eP			30
17	* Epc: $51^{\circ}N$, $177^{\circ}W$ O: 19-29-36, M: $5\frac{1}{4}$ - $5\frac{1}{2}$					18	Epc: $25^{\circ}N$, $124^{\circ}\frac{1}{2}E$ O: 21-38-14 h: 150km ca., M: $5\frac{3}{4}$					
	CC	eP	19	37	03		ZS	+iP	21	39	51	
	PK	eP		38	08			i(S)		41	00	
	LC	eP		39	25		NK	-iP		40	15	
	CU	eP			48			i(S)		41	48	
	KM	P		40	20		CT	eP		40	37	
	LS	+P			45			i(S)		42	22	
17	* Epc: $51^{\circ}N$, $177^{\circ}\frac{1}{2}W$ O: 20-59-17, M: $6-6\frac{1}{2}$						PK	-iP			00	
	PK	+P	21	07	53			iS		45	01	
		S		14	44		CC	-iP		42	27	
		i		18	01			iS		45	52	
	ZS	+P		08	14		KM	-iP		42	33	
		S		15	24			iS		46	02	
	NK	eP		08	21		LC	-iP		42	45	
	LC	+iP		09	10			pP		43	15	
		S		17	02			eS		46	13	
	CU	+P		09	33		LS	P		44	21	
	KM	+P		10	06							
		eS		18	49		19	Epc: $4^{\circ}\frac{1}{2}S$, $139^{\circ}E$ O: 06-30-22 h: 155km ca., M: $5\frac{3}{4}$				
	LS	+iP		10	32			CT	eP	06	37	17
		S		19	36				sP		38	11
18	Epc: $51^{\circ}N$, $176^{\circ}W$ O: 00-39-15, M: $5\frac{1}{2}$								S		42	49
	ZS	+P	00	48	11			sS		43	46	
		S		55	19			SS		45	25	
	NK	+P		48	17		ZS	-iP		37	35	
		S		55	32			pP		38	08	
	LC	+iP		49	06			sP			28	
		S		56	59			PP		39	12	
	CU	iP		49	31			iS		43	21	
		S		57	49			sS		44	22	
	KM	+P		50	02		NK	-iP		37	51	
		S		58	47			pP		38	26	
	LS	P		50	28			sP			44	
		S		59	33			PP		39	26	
								PcP			49	
							KM	-iP		38	29	

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Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s					
21	PK	PcP	07	33	54	21	LC	PcP	14	47	57					
		iS		34	26			PP		49	04					
		SS		35	17			i		50	01					
	ZS	+iP		30	23		iS		54	40						
		i			33		eSS		58	31						
		iPP			55		CU	+iP		47	18					
	LC	PPP		31	12		PP		49	30						
		eS		34	41		eS		55	21						
		+iP		31	49		KM	+iP		47	54					
	CU	i			59		i		48	06						
		iPP		33	05		iPcP			28						
		iS		37	14		(PP)		50	14						
	CT	+iP		32	06		P		51	46						
		i			16		S		56	23						
		i		33	01		PS			46						
	KM	S		37	46		LS	+iP		48	21					
		eP		31	56		iPcP			54						
		+iP		32	46		PP		50	48						
	LS	i			57		S		57	15						
		iPP		34	25		ScS		58	15						
		iS		38	57		i			32						
21	Epc: 51° ⁰¹ N, 178° ¹³ W O: 14-37-20, M: 5 ¹ / ₂	eSS		41	47	22	* Epc: 14° ⁰² N, 120° ⁰⁸ E O: 20-30-02, M: 4 ¹ / ₂	NK	eP	20	34	25				
		ScS		42	46								S		37	47
		+iP		33	34								KM	+iP		34
21	Epc: 30° ⁰¹ N, 142°E O: 10-27-14, M: 6	i		44		23	ZS	+iP	10	31	29					
		iPP		35	24							iPP			41	
		ePcS		38	59							iPPP			51	
21	Epc: 51° ⁰¹ N, 178° ¹³ W O: 14-37-20, M: 5 ¹ / ₂	eS		40	29	21	CC	+iP	31	35	35					
		iPS			38							iS		35	01	
		CC	+iP		14							44	36	NK	+P	
21	Epc: 51° ⁰¹ N, 178° ¹³ W O: 14-37-20, M: 5 ¹ / ₂	iS		50	26	21	PK	+P	44	40	13					
		SS		52	54							LC	+P		35	48
		+iP		45	41							LS	+P		36	31
21	Epc: 51° ⁰¹ N, 178° ¹³ W O: 14-37-20, M: 5 ¹ / ₂	PcP		47	20	21	CC	+iP	31	35	35					
		PP			26							iS		35	01	
		PPP		48	07							NK	+P		31	51
21	Epc: 51° ⁰¹ N, 178° ¹³ W O: 14-37-20, M: 5 ¹ / ₂	i		52	13	21	PK	+P	44	40	13					
		iS			24							LC	+P		35	48
		+iP		46	01							LS	+P		36	31
21	Epc: 51° ⁰¹ N, 178° ¹³ W O: 14-37-20, M: 5 ¹ / ₂	i			07	21	ZS	+iP	10	31	29					
		ePP		47	54							iPP			41	
		iS		52	58							iPPP			51	
21	Epc: 51° ⁰¹ N, 178° ¹³ W O: 14-37-20, M: 5 ¹ / ₂	SS		56	11	21	CC	+iP	31	35	35					
		+iP		46	07							iS		35	01	
		i			07							NK	+P		31	51
21	Epc: 51° ⁰¹ N, 178° ¹³ W O: 14-37-20, M: 5 ¹ / ₂	ePP		47	54	21	PK	+P	44	40	13					
		iS		52	58							LC	+P		35	48
		SS		56	11							LS	+P		36	31
21	Epc: 51° ⁰¹ N, 178° ¹³ W O: 14-37-20, M: 5 ¹ / ₂	+iP		46	07	21	ZS	+iP	10	31	29					
		PP		47	59							iPP			41	
		PPP		48	50							iPPP			51	
21	Epc: 51° ⁰¹ N, 178° ¹³ W O: 14-37-20, M: 5 ¹ / ₂	iS		53	09	21	CC	+iP	31	35	35					
		+iP		46	07							iS		35	01	
		iS		53	09							NK	+P		31	51
21	Epc: 51° ⁰¹ N, 178° ¹³ W O: 14-37-20, M: 5 ¹ / ₂	iS		53	09	21	PK	+iP	32	22	22					
		+iP		46	07							iPP		32	10	
		iS		53	09							iS		35	30	
21	Epc: 51° ⁰¹ N, 178° ¹³ W O: 14-37-20, M: 5 ¹ / ₂	iS		53	09	21	ZS	+iP	10	31	29					
		+iP		46	07							SS			56	
		iS		53	09							iSSS		36	11	
21	Epc: 51° ⁰¹ N, 178° ¹³ W O: 14-37-20, M: 5 ¹ / ₂	iS		53	09	21	PK	+iP	32	22	22					
		+iP		46	07							iS		35	30	
		iS		53	09							SS			56	

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
26	CT	pPKP ₁	17	58	40	30	CU	P	02	54	33
		i	18	00	07			iS	03	00	17
		iP		01	25		KM	+iP	02	55	10
								iS	03	01	23
							LS	eP	02	55	56
								S	03	02	48
27	* Epc: 45° ¹ _N , 148°E										
	O: 03-21-56, M: 5.9										
	CC	eP	03	25	53	30	Epc: 2°S, 140°E				
		S		28	58		O: 04-44-58, M: 5				
	PK	+P		27	15		CT	eP	04	51	58
		eS		31	35		ZS	+iP		52	14
	ZS	e(P)		27	31			i			39
	NK	e(P)			40			PP			53
	CU	+P		29	13			iS			58
	KM	+P			50		NK	+iP			52
		eS		36	08			i			55
	LS	e(P)		30	33			S			58
							KM	+iP			53
								PP			55
								S			59
							CU	+iP			53
								S			05
											00
							PK	iP			04
								ePP			55
								S			05
							CC	+iP			04
								S			05
											00
							LC	+iP			04
								PcP			55
								PP			58
								S			05
											01
							LS	+iP			04
								ePPP			57
								iS			05
											02
											26
27	* Epc: 28° ¹ _S , 62°E										
	O: 17-19-03										
	LS	-P	17	29	39						
		S		38	15						
	KM	-P		29	51						
	CU	-P		30	22						
	LC	-P			49						
	NK	eP		31	18						
	ZS	eP			22						
	PK	eP			37						
28	NK	+P	01	31	30						
	KM	P		32	28						
	LC	e(P)		33	01						
30	Epc: 44° ¹ _N , 148°E										
	O: 02-47-20, M: 5										
	CC	eP	02	51	14						
	PK	+P		52	37						
		PP		53	11						
		PPP			21						
		eS		56	53						
	ZS	eP		52	47						
		i			58						
		PP		53	27						
		eS		57	11						
	NK	e(P)		52	58						
	LC	+iP		54	12						
		eS		59	39						

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
<p>1 *Epc: 16°S, 176°$\frac{1}{2}$W O: 05-37-50 h: 450km ca., M: 5$\frac{3}{4}$-6</p>						<p>1 LS SKS 03 00 53 S 01 59 sS 04 37</p>					
ZS	eP		05	48	55	<p>1 *Epc: 13°$\frac{1}{2}$N, 120°$\frac{1}{2}$E O: 12-28-28, h: 150km ca.</p>					
	i				59	ZS	+iP		12	32	25
	epP				50 25	NK	+P				37
	esP				51 04		sP				33 05
	PP				49	KM	+iP				00
	S				58 09	CU	+iP				24
NK	+eP		05	49	08		pP				42
	i				12		sP				51
	sP				51 17		S				37 33
	eS				58 33		sS				38 06
	SKS				51		i				55
	sS		06	01	10	LC	+iP				34 02
CT	eP		05	49	10	LS	+iP				45
	i				16		S				39 17
	S				58 42	<p>3 *Epc: 21°$\frac{1}{2}$S, 179°W O: 01-06-24 h: 550km ca., M: 6$\frac{1}{4}$-6$\frac{1}{2}$</p>					
	SKS				59 11	ZS	-iP		01	17	29
	sS		06	01	18		epP				19 27
CC	+P		05	49	16		esP				20 26
	i				21		iS				26 37
	pP				50 45		iScS				50
	sP				51 27		iSKS				27 03
	eS				58 52	CT	-iP				17 39
	eSKS				59 21		pP				19 42
	sS		06	01	27		iS				26 57
PK	+P		05	49	36		SKS				27 19
	i				40	NK	-iP				17 42
	epP				51 06		pP				19 40
	esP				42		sP				20 41
	ePP				52 51		iS				27 03
	SKS				59 22	CC	-iP				17 55
	(S)				34		pP				19 56
	sS		06	02	12		sP				20 56
KM	+P		05	50	01		PP				21 22
	i				06		eSKS				27 19
	pP				51 33		iS				33
	sP				52 09		esS				31 08
	PP				53 37	PK	-iP				18 11
	SKS				59 55		pP				20 14
	S		06	00	20		sP				21 11
	PS				01 28		iSKS				27 42
	sS				02 59		S				28 02
CU	+P		05	50	03						
	i				08						
	pP				51 36						
	sP				52 21						
	iSKS				59 57						
	iS		06	00	26						
	sS				03 06						

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Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
6	*Epc: 17°S, 173°W					10	NK	e(P)	18	14	32
	O: 21-09-09, M: 6 $\frac{3}{4}$							eS		21	23
	ZS	+iP	21	21	19		CC	eP		15	14
		eS		31	21		PK	eP			24
		SKS			37		KM	eS		23	26
	NK	+iP	21	31			CU	eP		15	46
	CC	+iP			37		LC	P		16	07
		SKS		31	53		LS	P			54
		S			56			eS		25	49
		i		32	06						
	PK	+iP	21	58		11	*Epc: 18°S, 168° $\frac{1}{2}$ E				
		SKS		32	27		O: 07-53-12				
		iS			39		NK	+P	08	04	21
		i			55		CC	+iP			47
	KM	+iP	22	24			PK	+P		05	02
		S		33	31			eS		14	41
	LC	+P	22	35			CU	+P		05	18
		PP		26	17		LC	+P			34
		SKS		33	13			eS		15	44
		S			51		LS	P		06	11
	LS	e(P)	23	15				S		16	53
		SKS		33	59						
		eS		35	03						

6	*Epc: 12°S, 167°E				
	O: 21-51-00, h: 150km ca.				
	ZS	+iP	22	01	06
	NK	+P			24
	CC	+iP			46
	KM	+iP	02	19	
	LC	+P			40
	LS	+iP	03	20	

11	*Epc: 3°S, 100° $\frac{1}{3}$ E				
	O: 20-26-22, M: 5				
	KM	P	20	32	16
	LS	(P)		33	06
		S		38	26
	LC	eP		33	51
	ZS	eP			54
	PK	e(P)		34	42
		eS		41	24
	CC	P		35	31

7	Epc: 43° $\frac{3}{4}$ N, 124° $\frac{1}{2}$ E				
	O: 17-57-41, M: 4				
	CC	+iP	17	57	57
		S		58	07
	SW	S		59	41
	PK	e(P)			52
	TU	e	18	02	14

12	*Epc: 51° $\frac{1}{2}$ N, 175°W				
	O: 08-15-59				
	CC	eP	08	23	34
	ZS	+P		24	59
	NK	+P		25	04
	CU	eP		26	16

10	*Epc: 3° $\frac{1}{2}$ S, 151° $\frac{1}{2}$ E				
	O: 18-05-54, M: 5.8				
	ZS	eP	18	14	17
		eS		20	56
	CT	eP		14	28

12	*Epc: 30° $\frac{1}{2}$ N, 81° $\frac{1}{2}$ E				
	O: 12-23-52				
	LS	P	12	25	54
		S		27	27
	KM	P		28	17
	LC	eP			24

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Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
12	*Epc: $9^{\circ}\frac{1}{3}S$, O: 19-04-20		$123^{\circ}\frac{1}{2}E$	12	LS	PS ScS	19 40 03 43 22
	CT	eP	19 11 20				
	KM	+P	12 06	12	*Epc: $6^{\circ}S$, O: 23-12-17, h: 100km ca.		
	NK	eP	16		CT	eP	23 20 47
	CU	eP	37		NK	e(P)	21 06
	LC	P	13 16		CC	+P	49
	LS	P	24		KM	P	22 05
		eS	20 36		CU	eP	13
						eS	30 21
12	Epc: $1^{\circ}N$, O: 19-25-12, M: 6		$126^{\circ}\frac{1}{4}E$		LS	P	23 19
	CT	eP	19 30 39	13	*Epc: $\frac{1}{3}^{\circ}N$, O: 03-50-35, M: $5\frac{3}{4}$		
		S	35 04		CT	P	03 56 08
	ZS	+P	31 27			i	41
		i	41			PP	50
		PP	32 24			PPP	57 00
		eS	36 27			PcP	59 41
	NK	+P	31 39			S	04 00 35
		PcP	34 33		NK	eP	03 57 06
	KM	+P	31 51			i	39
		PP	33 03			eS	04 02 20
		(PcP)	34 30			iScS	07 38
		S	37 09		KM	+iP	57 18
		ScS	42 20			PPP	58 42
	CU	+P	32 17			iPcP	00 00
		i	31			S	02 34
		PP	33 41			ScS	07 45
		iS	37 55		CU	+iP	03 57 44
		iScS	42 33			PP	59 10
	DR	eP	32 38			PcP	04 00 19
	PK	+P	48			S	03 22
		i	33 03		ZS	P	03 56 55
		PP	34 27			S	04 01 58
		PcS	38 35		PK	+P	03 58 16
		iS	52			S	04 04 25
		i(ScS)	42 57			PS	35
	LC	+P	32 54		LC	eP	03 58 23
		iPcP	34 57		CC	+P	39
		i(S)	39 01			PP	04 00 20
		iScS	43 01			PcP	29
	CC	eP	33 10			(S)	05 05
		PcP	35 02			ScS	08 40
		S	39 36		LS	+iP	03 58 49
		SS	42 41			i	59 24
		ScS	43 13			PP	04 00 34
	LS	eP	33 21			-iPcS	04 27
		PcP	35 12				
		S	39 53				

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Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
13	LS	S	04	05	21	13	CT	+P	22	04	50
		iScS		08	48			epP		05	39
								S		11	43
13	Epc: 36°N,						NK	+iP		05	05
	0: 07-33-35,	67° ¹ / ₂ E						epP			48
		M: 5						eS		11	56
	LS	+P	07	38	22			isS		13	16
		eS		42	12		CC	+iP		05	43
	LC	e(P)		39	41		KM	+iP		06	08
	CU	+P			53		CU	+iP			16
	KM	+iP		40	04			pP		07	00
		eS		45	19		LC	+iP		06	34
	CT	+P		41	24		LS	+P		07	23
	NK	eP			29			S		16	11
	ZS	+P			48						
13	Epc: 50° ¹ / ₂ N,					14	Epc: 51°N,				
	0: 20-12-57,	178°W					0: 14-55-06,	175° ¹ / ₂ W			
		M: 5						M: 6			
	CC	-P	20	20	22		CC	+iP	15	02	42
		PP		21	51			PP		04	14
		eS		26	16			PcS		08	43
	PK	eP		21	26			S			48
		eS		28	14			PS			57
		eSS		31	26		DR	P	03	29	
	ZS	-P		21	46		PK	+iP		05	47
		eS		28	49			PP		05	35
	NK	eP		21	52			iS		10	43
		iPcP		23	15			iPS			51
		iPP		24	44			SS		13	55
		eS		28	58		ZS	+P		04	08
		ScS		31	52			PcP		05	30
	LC	P		22	43			PP		06	06
	CT	-P		23	03			iPcS		09	25
		eS		31	12			S		11	21
	KM	-iP		23	38			PS			34
		ePcP		24	12		NK	+P		04	13
		PP		26	04			PcP		05	24
		eS		32	18			PP		06	13
		PS			35			ePcS		09	20
	LS	(P)		24	05			iS		11	32
		PcP			31			iPS			40
		PP		26	43		SA	eP		04	53
		eS		33	08		LC	+iP		05	01
		PS			31			PP		07	16
	CU	eP		23	07			PPP		08	34
								eS		13	00
							CT	+P		05	24
								PcP		06	04
								PP		07	46
13	Epc: 4°S,							eS		13	43
	0: 21-56-53,	154°E						PS		14	03
		h: 200km ca.						ScS		15	17
	ZS	eP		22	04	43		P		05	26
							CU				

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Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s		
14	CU	PcP	15	06	07	15	LS	eS	20	12	41		
		PP		07	43			eS		15	01		
		iS		13	46			SS		16	27		
		iScS		15	13								
		SS		17	47								
	KM	+P		05	58		15	Epc: 2° ¹ / ₂ N, 125° ¹ / ₂ E					
		PP		08	25			O: 22-29-25					
		PPP		09	56			h: 200km ca., M: 6 ³ / ₄					
	S		14	46	CT			+iP	22	34	20		
	LS	+iP		06				22	ZS	+iP		35	08
		eS		15				29		iS		36	01
		PS		16	04				iPP			16	
		iScS			28			NK	+iP		35	19	
	*Epc: 28° ¹ / ₂ N, 64°E							FL	eP			24	
O: 23-26-48, h: 100km ca.						KM		+iP			30		
14	LS	P	23	32	07			ipP			36	06	
		S		36	23			S			40	19	
	LC	eP		33	39			sS			41	26	
		eS		39	01	15		CU	+iP		35	57	
*Epc: 53° ¹ / ₂ N, 161° ¹ / ₂ E							SA		eP		36	03	
O: 19-55-33, M: 6 ³ / ₄ -6 ³ / ₄								DR	iP			13	
SW	eP	20	00	42	PK		+iP			28			
	+iP			59			iS			37	30		
DR	iS		05	14			PP			38	06		
	eP		01	53			ipcP			34			
PK	+iP		02	08	LC		+iP		36	34			
	PP		03	15			i		37	11			
TU	(S)		07	19			iPP			38	09		
	eP		02	26			ipcP			35			
ZS	+P			38	CC		+iP		36	54			
	S		08	06			iPP		38	32			
NK	+P		02	43	LS		iS		42	56			
	eP		03	29		+iP		37	01				
SA	+P			34		iPP		39	26				
	iP		04	02	SW	iS		43	08				
CU	PcS		09	37			eP		37	16			
	S		10	41	16	*Epc: 24° ¹ / ₂ S, 175°W							
ScS		13	54	O: 11-13-47, M: 3									
CT	+P		04	06		ZS	P	11	36	07			
	S		10	49			eS		36	22			
KM	+iP		04	40		NK	eP		26	19			
	ipcP		06	13			S		36	45			
LS	S		11	49		CT	eP		26	16			
	+P		05	08			eSKS		36	40			
CT	PcP		06	12			eS		47				
	PP		07	19			PS		37	34			
	PcS		10	13		CC	+P		36	33			
							S		37	17			

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
17	PK	eS	09	24	03	17	CU	S	18	17	51	
	TU	eP		17	23			ScS		20	13	
	ZS	P			30		TU	eP		10	25	
		eS		24	40		LC	P			47	
	NK	e(P)		17	35			S		18	40	
	SA	P		18	11			ScS		20	32	
	LC	P			25		LS	+P		11	31	
	CT	eP			47			i			38	
		eS		27	01			PPP		15	23	
	KM	eP		19	21			PcS		18	27	
		PcP			50			(S)		20	03	
		eS		28	06			PS			20	
	LS	eP		19	46			ScS		21	20	
		eS		28	53							
17	* Epc: 3°S, 145° $\frac{1}{2}$ E O: 18-01-00, M: 6 $\frac{1}{4}$ -6 $\frac{1}{2}$					17	* Epc: 35° $\frac{1}{2}$ S, 179° $\frac{1}{2}$ W O: 21-11-09, M: 5 $\frac{3}{4}$					
	CT	+P	18	08	56		CT	-iP	21	23	54	
		i		09	03		ZS	eP			55	
		PcS		14	48		NK	-P		24	06	
		S		15	15		CC	eP			28	
		SS		18	16		PK	eP			34	
	ZS	+P		08	58			eSKS		35	09	
		i		09	05			S			58	
		PP		10	38							
		iS		15	22		19	* Epc: 19°S, 175°E O: 04-45-45, M: 5 $\frac{1}{3}$ -5 $\frac{3}{4}$				
		SS		18	32		CT	eP	04	57	20	
	NK	+P	09	16		CC	eP			42		
		i			22	PK	eP			58		
		PP		11	01			S	05	08	10	
		ePPP			40	SA	P		04	58	10	
		iS		15	53	KM	eP			12		
		ScS		19	12	CU	eP			17		
	CC	(P)	10	06			SKS		05	08	48	
		i		14		LC	eP		04	58	34	
		PP		12	15		eSKS		05	09	04	
		S		17	23		e(S)			23		
	KM	+P	10	11		LS	eP		04	59	12	
		i			18		SKS		05	09	47	
		PcP		11	26							
		iPP		12	13		19	Epc: 27°N, 130°E O: 18-09-40				
		S		17	31		ZS	eP	18	11	45	
		SS		21	05			e(S)		13	22	
	PK	+P	10	13		NK	F			12	16	
		ePP		12	10	PK	eP			13	39	
		eS		17	36	SA	eP			14	05	
		ScS		20	04							
		SS		21	07							
	SA	P	10	14								
	CU	+P			23							
		PP		12	23							

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Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
19	LC	eP	18	14	54	20	ZS	eP	03	50	35
		S		19	06			ePP		52	55
	KM	eP		15	04			PPP		54	26
								S		59	04
							CT	eP		50	44
19	Epc: 0°Lat, 150°E O: 21-48-12, M: 5							iS		59	24
								eSS	04	03	37
	ZS	P	21	56	02		NK	eP	03	50	50
		PP		57	42			eS		59	31
		iS	22	02	17		CC	eP		51	15
	CT	eP	21	56	10			ePP		53	54
		PP		57	50			e(S)	04	00	25
		ePPP		58	20			eSS		04	53
		iS	22	02	32		PK	eP	03	51	31
		SS		05	27			PcP			52
	NK	eP	21	56	22			PPP		55	56
		PcP		58	12			eS	04	00	52
		S	22	02	49			ScS		01	26
		ScS		06	20		SA	-P	03	51	41
	CC	eP	21	57	04			iS	04	01	09
		iS	22	04	11		KM	P	03	51	44
		ScS		06	50			iPcP		52	04
		SS		07	40			iPP		54	33
	PK	eP	21	57	13			iS	04	01	17
		ePP		59	04			iPS		02	02
		iS	22	04	27		TU	eP	03	51	44
		iScS		07	09		CU	eP			51
		SS			56			S	04	01	29
	SA	eP	21	57	21			ScS			59
		iS	22	04	41			PS		02	10
	KM	eP	21	57	24			SS		06	17
		(S)	22	04	49		LC	eP	03	52	08
		ScS		07	11			iS	04	02	03
	CU	eP	21	57	33		LS	+P	03	52	46
		PcP		58	40			ePP		56	06
		ePP		59	34			i(S)	04	03	14
		iS	22	05	03			PS		04	13
		ScS		07	25						
	PT	eP	21	57	47	20	Epc: 45°N, 100°E O: 06-22-23, M: 4 1/4				
	LC	eP			55		LC	eP	06	24	23
		iS	22	05	42		CU	e		30	14
		iScS		07	44		LS	eP		26	23
		SS		09	34		NK	e(P)			54
	LS	-P	21	58	45		PK	e		28	58
		iS	22	07	16						
		ScS		08	36						
		SS		11	26						
20	Epc: 14°S, 164°E O: 03-40-07, M: 6 1/4 - 6 1/2					20	Epc: 24°N, 122°E O: 08-16-02, M: 5				
							CT	eP	08	48	10

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
20	CT	(S)	08 49 48	21	CU	S	01 33 38
	NK	P	48 13		LC	eP	22 32
	DR	(P)	49 45		LS	eP	23 09
	SA	-P	49	21	*Epc: 27°N, 139°E		
	FL	eP	56		O: 11-54-37		
	PK	+P	50 06		ZS	eP	11 58 08
	CU	+iP	15			iS	12 00 58
		iPP	33		NK	-P	11 58 30
		eS	53 34			iS	12 01 38
	TU	eP	50 19		CC	iP	11 58 43
	KM	+P	20			iS	12 02 02
		PP	37		PK	eP	11 59 09
		eS	53 44		CT	eP	22
		PoP	54 54		SA	+iP	48
	CC	eP	50 39		LC	-P	12 00 25
	LC	+iP	45		KM	-iP	40
		eS	54 30		LS	P	01 56
	LS	P	52 06	21	*Epc: 53°N, 163°W		
					O: 12-19-00, M: 5 $\frac{1}{4}$ -5 $\frac{1}{2}$		
21	*Epc: 20°S, 65°W				ZS	P	12 28 27
	O: 00-12-53, h: 300km ca.				CU	P	29 40
	CU	PKP	00 32 27		KM	+iP	30 40
		i	43 27				
	NK	PKP	32 29	21	*Epc: 18°S, 176°W		
	SA	PKP	29		O: 20-59-10		
	KM	ePKP	30		h: 250km ca., M: 5 $\frac{3}{4}$ -6		
					ZS	-iP	21 10 47
21	*Epc: 24°S, 176°W					sP	12 06
	O: 01-09-00, M: 5 $\frac{3}{4}$ -6					eS	20 26
	ZS	P	01 21 20		NK	-iP	10 59
		S	31 40			epP	11 54
	CT	P	21 30			sP	12 16
		eSKS	31 49			iS	20 51
	NK	(S)	32 04		CT	-iP	11 02
		eP	21 32			epP	55
		eSKS	32 00			isP	12 21
		(S)	24			iS	20 55
	CC	iP	21 46			ScS	21 03
	PK	+iP	22 02			PS	22 17
		SKS	32 33		CC	(P)	11 07
		S	33 02			pP	12 02
	SA	iP	22 12			sP	25
		eSKS	32 49			(S)	21 05
		S	33 25			sS	22 40
	KM	+P	22 17		PK	-iP	11 27
		SKS	32 51			pP	12 23
		eS	33 30			sP	45
	CU	e(P)	22 23			iSKS	21 33
		eSKS	32 58			iS	41

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
21	PK	PS	21 23 15	22	CC	pP	22 26 28
	SA	iP	11 43			SP	41
		pP	12 37			e(S)	33 25
		sP	13 01		SA	P	26 13
		PP	15 09		PK	-P	10
		SKS	21 50			epP	37
		iS	22 15			sP	48
	KM	-iP	11 51			eS	33 47
		pP	12 45			sS	34 30
		sP	13 20		KM	P	26 14
		PP	15 27		CU	P	23
		iSKS	22 01			epP	49
		iS	32			esP	27 00
		isS	24 12			eS	34 08
	CU	-iP	11 54		LC	eP	26 46
		epP	12 47			eS	34 50
		iSP	13 13			esS	35 40
		PiP	17 52		LS	eP	27 29
		iSKS	22 05				
		iS	40				
		sS	24 19	24	Epc: 13°N, 120° $\frac{1}{2}$ E		
	LC	-iP	12 03		O: 16-54-21		
		epP	13 02		h: 150km ca., M: 5 $\frac{1}{4}$		
		sP	23		CT	iS	16 59 41
		iSKS	22 15		ZS	+iP	58 21
		S	57			esP	59
	LS	epP	12 42			eS	17 01 33
		iPP	16 53		NK	+P	16 58 34
		iSKS	22 59			pP	59 01
		e(S)	24 12			isP	15
						S	17 01 57
22	Epc: 6°S, 150°E					sS	02 48
	O: 22-16-44				KM	iP	16 58 57
	h: 100km ca., *M: 5 $\frac{1}{2}$ -5 $\frac{3}{4}$					epP	59 20
	ZS	+iP	22 25 00			iS	17 02 41
		epP	26		CU	eP	16 59 20
		sP	28			pP	45
		eS	31 36			sP	17 00 00
		esS	32 18			iS	03 17
	CT	eP	25 02			esS	04 06
		eS	31 40		SA	iP	16 59 23
		esS	32 25			pP	51
	NK	-iP	25 17			sP	17 00 03
		pP	42			S	03 23
		sP	55			sS	04 16
		PP	27 10		LC	P	16 59 57
		S	32 08			S	17 04 26
		sS	54		PK	+P	16 59 53
		eSS	35 28			epP	17 00 25
	CC	-iP	26 02			esP	36
					CC	eP	26

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
24	CC	eS	17	05	19	26	LS	i	18	08	22
	LS	e(P)		00	41			SKS		18	36
		iS		05	40			S			44
26	Epc: $13^{\circ} \frac{1}{2} S$, $167^{\circ} E$ O: 12-20-44, *M: $5 \frac{1}{4} - 5 \frac{1}{2}$					26	Epc: $13^{\circ} \frac{1}{2} S$, $167^{\circ} E$ O: 23-31-38, *M: $5 \frac{3}{4}$				
	CC	eP	12	31	51		ZS	P	23	42	07
	PK	eP		32	08			S		50	37
		eS		41	27		PK	+P		45	02
	SA	eP		32	19			S		52	20
		eS		41	49		KM	+P		43	16
	KM	eP		32	22			PcP			31
		eS		41	54			S		52	48
	CU	eP		32	28		CU	+P		43	23
		eS		42	04			S		53	00
	LC	eP		32	45		LC	+P		43	40
		eS		42	38			S		53	32
	LS	e(P)		33	23		LS	eP		44	18
								S		54	47
26	Epc: $13^{\circ} \frac{1}{2} S$, $167^{\circ} E$ O: 12-45-03					27	*Epc: $37^{\circ} .8 N$, $20^{\circ} .5 E$ O: 15-16-34, M: $6 \frac{1}{2} - 6 \frac{3}{4}$				
	CC	eP	12	56	13		LS	P	15	26	27
	PK	eP			28			PcP		27	19
		eS		13	05	47		iS		34	24
	SA	P		12	56	39		iScS		36	09
		S		13	06	10	LC	eP		27	10
	KM	eP		12	56	42		PcP			44
		eS		13	06	14		S		35	47
	CU	+P		12	56	48		ScS		37	03
		S		13	06	26	CU	eP		27	27
	LC	-P		12	57	05		PcP			54
		eS		13	06	59		iS		36	20
	LS	eP		12	57	43		ePS			43
		S		13	08	11		iScS		37	25
							KM	eP		27	40
								PcP		28	10
								eS		36	43
								PS		37	05
								ScS			40
							SA	P		27	39
								iS		36	44
							PK	eP		27	49
								i		28	04
								iPcP			10
								S		27	02
	LC	eP		07	36			ScS		37	51
		eS		17	29		CC	-P		28	10
	LS	eP		08	15			PcP			26

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Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
27	CC	S	15 37 42	31	PK	S	23 18 27
		ScS	38 17			SoS	20 09
		ePS	39 17		ZS	P	10 57
	CT	eP	28 37		LC	+P	11 12
		i	29 08			S	20 08
		S	38 30			PS	27
		ScS	55			ScS	21 13
	ZS	-P	28 39			SS	24 30
		i	55		CT	P	11 50
		S	38 35		KM	P	12 12
		ScS	39 00			eS	22 01

29 *Epc: 14°¹/₂S, 167°E
 O: 12-24-23, M: 5³/₄-6

CT	eP	12 35 04
	S	43 42
	PS	44 06
	ScS	58
ZS	S	43 26
CC	eP	35 34
	iPoP	53
	PP	38 10
	S	44 43
PK	eP	35 49
	PoP	36 10
	PP	38 28
	S	45 11
	eScS	54
KM	eP	36 03
	S	45 36
CU	eP	36 10
	S	45 48
	ScS	46 27
	eSS	50 39
LC	iS	46 24
LS	eP	37 05
	ePP	40 25
	eSKS	47 29
	S	35
	ePS	48 30

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1 Epc: 38°N, 134°¹/₂E
 O: 15-29-33
 h: 400km ca., M: 5¹/₂

CC	iP	15 31 43
	iS	33 27
DR	iP	31 55
SW	iP	55
ZS	-iP	32 25
	iS	34 45
PK	-iP	32 41
	iS	35 15
PT	eP	33 31
CT	-iP	34 11
	S	37 56
LC	-iP	34 19
	pP	35 26
	iS	38 07
KM	-iP	35 07
	eS	39 33
	eSS	41 52
LS	P	36 07
	S	41 21

31 *Epc: 63°N, 144°¹/₂W
 O: 23-00-16, M: 5³/₄

CC	+P	23 09 27
	S	16 54
	iScS	17 12
	SS	20 31
PK	+P	10 18

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
2	*	Epc: $50^{\circ}\frac{1}{2}S$, O: 14-25-37	145	$0^{\circ}\frac{1}{3}E$		4	LC	PKP ₂ PP	22	12	59 16 56
	CT	-P	14	33	36						
		S		39	50						
	ZS	-P		33	42						
	NK	-P			59						
		eS		40	30						
	KM	-iP		34	48						
		S		42	00						
	CC	P		34	53						
	PK	-P			55						
		eS		42	16						
	LS	iP		36	07						
3		Epc: $40^{\circ}\frac{1}{2}N$, O: 08-10-25, M: $5^{\frac{1}{2}}$	143	$0^{\circ}\frac{1}{3}E$							
	DR	P	08	14	17						
	ZS	P		15	00						
	PK	-iP			01						
		PPP			36						
		iS		18	45						
		SSS		19	31						
	NK	P		15	09						
	TU	eP			27						
	KM	+iP		17	34						
		PP		18	59						
		S		23	16						
	LS	+iP		18	28						
		S		24	54						
4	*	Epc: $33^{\circ}\frac{1}{2}S$, O: 21-51-08, M: $6^{\frac{3}{4}}-7$	59	$0^{\circ}\frac{1}{2}W$							
	LS	+PKP ₁	22	11	17						
		PKP ₂		12	15						
	CC	ePKP ₁		11	19						
		PKP ₂		12	18						
		PP		16	04						
	KM	ePKP ₁		11	25						
		+PKP ₂		12	40						
		PP		16	27						
	CT	PKP ₂		12	49						
		PP		16	38						
	PK	PKP ₁		11	26						
		PKP ₂		12	51						
		PP		16	42						
	NK	PP			45						
	LC	ePKP ₁		11	29						
5	*	Epc: $5^{\circ}S$, O: 13-01-55				102	$0^{\circ}E$				
	KM	eP		13	08	05					
	CU	eP				52					
	LS	+iP				59					
		S				14	35				
	SA	eP				09	29				
	CC	+P				11	13				
5	*	Epc: $5^{\circ}S$, O: 13-08-04				102	$0^{\circ}E$				
	KM	eP		13	14	15					
	CU	P				15	02				
	LS	+P					09				
	SA	iP					38				
	PK	P				16	35				
	CC	+P				17	23				
8		Epc: $53^{\circ}\frac{1}{2}N$, O: 05-25-39 h: 60km ca., M: $5^{\frac{1}{4}}$				159	$0^{\circ}\frac{1}{2}E$				
	CC	+iP		05	30	53					
		sP				31	15				
		eS				35	03				
		SS					28				
	PK	P				32	02				
	ZS	eP					33				
		sP					57				
		eS				38	04				
	NK	+P				32	36				
	SA	P				33	12				
		sP					36				
	LC	+P					29				
		esP					51				
		PPP				35	35				
	CU	P				33	58				
	KM	+P				34	34				
		eS				41	45				
	LS	+P				55	04				
		sP					25				
		eS				42	56				
	CT	eP				34	01				

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
8	Epc: $33^{\circ}\frac{1}{2}N$, $132^{\circ}E$			11	ZS	+P	18 07 04
	O: 14-53-12					PP	43
	h: 60km ca., M: $5\frac{3}{4}$					iS	11 26
	ZS	+iP	14 55 34	NK	+P		07 18
	NK	+iP	58		PP		08 05
		iS	58 06	KM	+P		11 54
	CC	iP	56 03		PP		07 49
	PK	-P	35		S		08 42
		sP	59		ScS		12 38
		iS	59 16	PK	eP		13 31
	SA	P	57 34		S		08 30
	CT	-P	41		S		13 52
		eS	15 01 13	LC	P		08 45
		PcP	45		ePP		10 02
	LC	P	14 58 14		S		14 20
		sP	41	CC	+P		08 52
		S	15 02 18		PP		10 23
	CU	P	14 58 21		S		14 35
	KM	eP	50		eSS		17 02
		eS	15 03 25	LS	+P		09 26
					PP		10 05
					S		15 33
9	Epc: $46^{\circ}N$, $151^{\circ}E$			14	Epc: $22^{\circ}\frac{1}{2}N$, $100^{\circ}E$		
	O: 11-32-15, M: $4\frac{3}{4}$				O: 04-19-38, M: $4\frac{3}{4}$		
	CC	iP	11 36 29	KM	eP	04 20 36	
	PK	eP	37 45		P	46	
		eS	42 13		i	21 27	
	ZS	+P	37 59		S	32	
	NK	+P	38 08	LS	eP	22 27	
	SA	iP	56		e(S)	24 41	
	LC	+iP	39 18	PK	eP	40	
	GU	+iP	43		e(S)	28 41	
		S	45 41				
	KM	+iP	40 17				
11	Epc: $35^{\circ}N$, $130^{\circ}E$			14	Epc: $57^{\circ}N$, $120^{\circ}\frac{1}{2}E$		
	O: 06-39-07, M: $4\frac{1}{2}$				O: 14-21-34, M: $6\frac{1}{4}-6\frac{1}{2}$		
	LC	(Pn)	07 00 11	CC	eP	14 24 44	
		P	18	PK	eP	25 36	
		i	53		iS	28 48	
		S	01 03		iPcP	30 18	
	YM	e(P)	00 50	PT	P	25 49	
	SA	eP	01 06	LC	-P	26 54	
		eS	02 39		iS	31 10	
	TS	e(P)	00 50	SA	iP	26 55	
	PK	e	02 43		iS	31 12	
		(s)	05 28	NK	-iP	27 01	
					iS	31 21	
				ZS	P	27 08	
					PP	34 44	
					PPP	28 01	
11	Epc: $7^{\circ}\frac{1}{2}N$, $126^{\circ}\frac{1}{2}E$						
	O: 18-01-45, M: $5\frac{1}{4}$						

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
14	ZS	i	14 31 29	15	ZS	+iP	19 50 56
		iS	35			pP	52 36
	FL	eP	27 13			sP	53 53
	CU	(P)	36			iS	54 57
		PP	28 46			iScP	56 24
		iS	32 26			sS	58 01
	CT	P	28 24		KM	+iP	50 56
		PcP	31 04			ipP	52 42
		e	33 22			PPP	49
		(S)	48			iPcP	53 48
		SS	35 51			iS	55 01
	KM	-iP	28 26			ScP	56 25
		e	33 47		NK	+iP	51 04
		S	52			pP	52 47
	LS	-iP	28 28			PcP	53 48
		iS	34 00			isP	59
						iS	55 16
						iScP	56 26
						isS	58 30
						ScS	20 00 21
14	*Epc: 31°N, 133°E O: 19-42-13				LC	+iP	19 52 08
	ZS	eP	19 44 26			pP	53 55
	NK	iP	54			iPcP	54 11
	CC	eP	45 22			PP	54
						iS	57 07
					SA	iP	51 39
						iS	56 16
14	*Epc: 7°S, 68°E O: 21-31-55, M: 5 $\frac{1}{4}$				CU	+iP	51 27
	LS	-P	21 39 57			ipP	53 11
		S	46 24			PPP	36
	KM	P	40 26			iS	55 53
		S	47 16			ScP	56 38
	CU	P	40 59		DR	P	52 00
		PcP	42 17		PK	+iP	10
		S	48 17			pP	54 08
	CT	P	41 21			PPP	49
		eS	48 56			sP	55 14
	LC	iP	41 26			iScP	56 56
		S	59 08			iS	57 13
	NK	P	42 19		LS	+iP	52 25
	PK	iP	36			+iPcP	54 16
		eS	51 18			ipP	20
	CC	e(P)	43 24			PPP	55 18
						sP	22
						iS	57 40
					CC	iP	52 40
						pP	54 22
						sP	55 44
						(S)	58 09
						sS	20 01 27
	CT	+iP	19 49 57			iScS	55
		iS	53 14		SW	eP	19 52 54

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s		
18	*Epc: 36° 3N, 70° 4E			20	NK	ePP	17 20 31		
	O: 20-53-02, h: 200km					iS	25 54		
	LS	-iP	20 57 10			ScS	28 21		
		iS	21 00 18			CC	+iP	19 12	
	LC	eP	20 58 30			i	23		
	KM	e(P)	57		PK	+P	24		
						i	56		
						PcP	20 19		
						eS	27 22		
19	Epc: 3°N, 127°E			20	SA	iP	19 32		
	O: 08-12-38, *M: 5 1/4					iS	27 37		
	CT	-P	08 17 55			KM	+iP	19 35	
		eS	22 09				iPcP	20 26	
	ZS	-P	18 37				iS	27 44	
		eS	23 25				PS	57	
	NK	-iP	18 50				ScS	29 27	
		S	23 50				SS	31 49	
	KM	-iP	19 08				CU	+iP	19 43
	SA	P	37				iS	27 59	
		eS	25 12				PS	28 08	
	PK	-iP	20 01				ScS	29 33	
		S	25 54				LS	+iP	20 47
TU	eP	20 08			i	57			
LC	eP	10			PcP	21 11			
LS	-iP	43			PP	23 21			
					iS	30 00			
					SS	34 27			
20	Epc: 19° 1/2N, 104° 1/2E			21	CC	eP	05 48 31		
	O: 05-17-21, M: 4 1/2-5					eS	51 06		
	KM	eP	05 18 44			ZS	-P	49 31	
		iP	19 05				eS	52 52	
		iS	20 15			NK	eP	49 44	
	CT	P	19 25			PK	eP	46	
		S	21 01				iPP	50 04	
CU	e(P)	19 55		e(S)	53 25				
LS	-iP	21 08		PcP	54 04				
NK	e(P)	27		SA	P	50 56			
PK	e(P)	22 26			e(S)	55 36			
20	*Epc: 6° 1/2S, 154° 1/2E			21	CT	eP	51 13		
	O: 17-09-24, M: 5 1/2					i	29		
	ZS	+iP	17 18 18			(S)	56 04		
		i	30			CU	eP	51 38	
		PP	20 09				i	56	
		iS	25 21				eS	56 43	
	CT	+iP	18 27				KM	P	52 10
	NK	+iP	36					eS	57 41
		i	47				IS	eP	53 11
		iPcP	19 55						

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
21	*Epc: 15°S, 174°W O: 13-29-03, h: 150km ca.					22	ZS	PP	19	22	15	
	ZS	P	13	40	47			iSKS		28	50	
		sP		41	36		CT	+P		18	29	
	NK	P			03			iSKS		28	50	
		sP			49			iS		29	02	
	CT	eP			04			PS		30	07	
		sP			55		NK	SS		34	47	
	CC	P			07			+P		18	37	
		sP			55			i			46	
	PK	eP			28			PP		22	07	
		sP		42	17			iSKS		29	03	
	SA	P		41	46			S			20	
		sP		42	33		SW	SS		35	06	
	KM	eP		41	56		CC	eP		18	55	
		sP		42	45			+P			58	
								PPP		24	46	
								iSKS		29	26	
								iS		30	02	
							PK	P		19	09	
								iSKS		29	42	
22	Epc: 27°N, 140° $\frac{1}{2}$ E O: 08-37-18, h: 400km ca.							i(S)		30	23	
	CT	S	08	44	08		KM	+P		19	11	
	ZS	iS		43	56			PP		23	09	
	NK	eP		41	18			SKS		29	23	
		sP		43	01			iS		30	26	
		iS		44	34		SA	eP		19	15	
		ePcP		45	10			iSKS		29	47	
	CC	-iP		41	32			iS		30	31	
		sP		43	14		CU	P		19	19	
		eS		44	57			PP		23	22	
	PK	P		42	01			iSKS		29	52	
	SA	iP			38			iS		30	40	
		S		46	51			ePS		32	15	
	CU	P		43	13		LS	ePKP		24	11	
		iS		47	51			iSKS		30	37	
		sS		50	02			iSKKS		31	24	
		ScS		52	59			iS		32	00	
	KM	eP		43	29							
		iS		48	23		24	*Epc: 59° $\frac{1}{4}$ N, 143° $\frac{1}{2}$ W O: 03-44-14, M: 6 $\frac{3}{4}$				
		sS		50	33			CC	S	04	01	
		eSS		51	07				iPS		32	
	LS	eP		44	49				ScS		03	
		iS		50	44			PK	eP	03	54	
		iS		52	59				ePP		56	
		iSS		54	03				S	04	03	
									PS		21	
									SS		07	
22	*Epc: 33° $\frac{1}{3}$ S, 177° $\frac{1}{3}$ W O: 19-05-44, M: 6 $\frac{3}{4}$											
	ZS	+P	19	18	27		NK	eP	03	55	11	
							ZS	e(P)			15	

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s		
2	KM	ScS	15	17	40	4	ZS	+iP	09	56	30		
	PK	-P		07	33		NK	+iP			52		
		S		12	50		CC	eP			57 11		
		ScS		18	01		SA	P			58 09		
	CC	eP		07	53		LC	+P			47		
	LS	eP		08	34		KM	eP			54		
		iS		14	38								
		iScS		18	44								
	Epc: 14°N, 120°E O: 00-33-12, M: 5¼						Epc: 21°N, 145°E O: 11-33-00, M: 4½						
	CT	+P		00	36		02	ZS	+P		11	38	13
ZS	+iP			37	16		iS			42	24		
	S			40	27	NK	+iP			38	35		
NK	+iP			37	28		eS			43	05		
	S			40	51	CC	eP			38	51		
KM	+iP			37	52		eS			43	28		
	iS			41	36	SA	eP			39	52		
CU	+iP			38	15	LC	+P			40	30		
	S			42	19	KM	+P				34		
SA	iP			38	15	* Epc: 37°N, 54°E O: 09-29-22							
PK	+iP			46		LS	eP		09	35	49		
	eS			43	11	LC	eP			36	53		
LC	+iP			38	52	Epc: 5°S, 152°E O: 12-32-42, M: 5¾							
CC	+P			39	21	ZS	+P		12	41	15		
LS	+P			37			PcP			42	48		
Epc: 4°S, 144°E O: 00-49-39 h: 100km ca., M: 6							PP			43	03		
CT	-iP		00	57	15		PcS			46	42		
	S		01	03	19		iS			48	03		
ZS	-iP		00	57	22		PS				16		
	S		01	03	31		ScS			51	09		
NK	-iP		00	57	39	CT	+iP			41	19		
	iS		01	04	03		iPcP			42	49		
KM	-iP		00	58	28		ePP			43	09		
	S		01	05	32		PcS			46	45		
CC	-iP		00	58	34		iS			48	13		
SA	iP			34			PS				19		
PK	-P			36			ScS			51	09		
	eS		01	05	48	NK	+P			41	31		
LC	-P		00	59	07		iPcP			42	56		
	S		01	06	42		PP			43	22		
LS	-P		00	59	47		S			48	34		
	S		01	07	59		ScS			51	25		
Epc: 22°N, 145°E O: 09-51-26, M: 5½						CC	+iP			42	12		
							iPcP			43	17		
							PP			44	17		

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
10	Epc: $6^{\circ}\frac{1}{2}N, 127^{\circ}\frac{1}{2}E$					11	SA	pPKP	14	58	31
	O: 11-35-34, M: $5\frac{1}{4}-5\frac{1}{2}$							PP	15	02	33
	CT	eP	11	40	25			pPP		04	25
		S		44	18		CU	-PKP ₁	14	57	33
	NK	eP		41	19			pPKP ₁		58	30
		eS		45	53			PKP ₂		59	40
	KM	-P		41	45			PF	15	02	39
	CU	+iP		42	07		KM	pPP		03	32
		eS		47	22			ePKP	14	57	33
	SA	iP		42	08			rPKP		58	31
	PK	eP			31			PP	15	02	40
	LC	+iP			44			pPP		03	39
	LS	+iP		43	20		NK	ePKP	14	57	34
		S		49	33			pPKP		58	32
								PP	15	02	41
								epPP		03	37
							CT	ePKP ₁	14	57	36
								pPKP ₁		58	34
								PKP ₂		59	37
								pPKP ₂	15	00	32
								PP		03	23
								pPP		04	20
								ePPP		06	26
11	Epc: $44^{\circ}\frac{1}{2}N, 86^{\circ}E$					12	Epc: $27^{\circ}\frac{1}{2}N, 126^{\circ}\frac{1}{2}E$				
	O: 06-00-50, M: $4\frac{1}{2}$						O: 15-18-45				
							h: 220km, M: $6\frac{1}{4}$				
	LS	eP	06	04	32		ZS	+iP	15	20	12
		e(S)		07	27			iS		21	17
	LC	eP		04	39		NK	iP		20	30
	PT	e(P)		05	11			sl'		21	44
	CU	eP			25			iS		22	07
		e(S)		09	07		DR	iP		21	30
	KM	eP		06	08		CT	+iP			40
		eS		10	22			iS		23	58
							PK	-iP		22	08
								iS		24	50
							TY	eP		22	15
							CC	-iP			20
								iS		25	14
							TU	eP		22	22
							SA	+iP			23
								iS		25	17
							PT	-iP		22	46
							SW	eP			57
							CU	iP			57
								pP		23	38
								isP		24	12
								iS		26	21
							LC	P		23	10
								i		24	12
11	* Epc: $42^{\circ}\frac{1}{2}N, 144^{\circ}\frac{1}{2}E$										
	O: 09-06-53										
	CC	eP	09	10	20						
	LC	eP		13	24						
	KM	eP		14	18						
11	* Epc: $23^{\circ}\frac{1}{2}S, 85^{\circ}W$										
	O: 14-37-42										
	h: 200km ca., M: 6										
	CC	ePKP	14	57	20						
	LS	PKP			26						
		epPKP		58	24						
	PT	-PKP		57	20						
	PK	PKP			29						
		pPKP		58	27						
		PP	15	02	06						
		pPP			50						
	LC	-PKP	14	57	31						
		pPKP		58	29						
	SA	iPKP		57	33						

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Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
12	LC	iS	15	26	44	16	NK	sP	18	12	55	
	KM	-iP		23	16		CC	e(S)		20	38	
		ipP		24	01			+iP		12	44	
	LS	isP			23		PK	osP		13	17	
		iS		26	52			eS		21	23	
		-iP		24	42			+P		13	02	
		i		26	01			sP			37	
		iPcP		27	33			eS		21	55	
		eS		29	23			SA	P		13	13
	iS			26	sP					48		
	i		31	22	KM	+iP			20			
	i(SoS)		34	47		isP			55			
13	Epc: $41^{\circ}\frac{1}{2}N$, $75^{\circ}E$ O: 08-58-12, *M: $4\frac{3}{4}$					19	CU	+iP	13	26		
	LS	eP	09	02	22		LC	sP			58	
		eS		05	33			eS		22	39	
	LC	P		03	19		LS	+iP		13	40	
	CU	eP			45			sP		14	14	
	SA	P		04	02		LS	(S)		23	10	
	KM	eP			07			+iP		14	23	
	PK	eS		08	57		SKS	sP			59	
		eP		04	33			S		24	29	
	NK	eP		05	15		S				34	
	CC	P			21							
	ZS	+P			35		*Epc: $19^{\circ}S$, $172^{\circ}\frac{1}{2}W$ O: 01-53-54, M: $5\frac{1}{2}$					
		eS		11	28		ZS	eP		02	06	14
14	*Epc: $33^{\circ}N$, $136^{\circ}\frac{1}{2}E$ O: 21-05-10, h: 350km					19	NK	eSKS		16	34	
	PK	-P	21	08	35			eS			38	
		e(P)		09	01		-P		06	24		
	PT	eS		12	05		eSKS			16	53	
		eP		09	50		eS		17	09		
	SA	eP			55		CT	eP		06	30	
	CU	eP		10	36		CC	-P			31	
	KM	eP		11	03		PK	eP			50	
16	Epc: $11^{\circ}\frac{1}{2}S$, $166^{\circ}\frac{1}{2}E$ O: 18-02-06, h: 100km ca.					19	SA	eSKS		17	33	
	ZS	S			47			SA	S			47
		P	18	12	05		eP			06	59	
	CT	eS			39		KM	eP		07	17	
		e(S)		20	52		eSKS		18	00		
NK	eP		12	18	eS			35				
19	*Epc: $34^{\circ}\frac{1}{2}S$, $178^{\circ}W$ O: 11-42-42, M: $5\frac{3}{4}$					19	CU	e(P)	07	19		
	ZS	SKS			17		57	NK	S		18	39
		eP			53		eSKS				11	55
	NK	eP			21						12	06

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
19	NK	eS	12 06 28	20	CT	pP	01 13 20
	CC	(P)	11 55 58			PP	20 15
		eSKS	12 06 32			PPF	37
		iS	07 11			S	24 09
	PK	SKS	06 48			SS	26 11
		eS	07 32			ScS	29 28
	SA	eP	11 56 17		KM	+iP	13 32
		eSKS	12 06 54			PP	20 55
		S	07 42			iS	25 04
	CU	SKS	06 57			sS	43
		eS	07 43			iSeS	29 43
					CU	+iP	20 15
					ZS	+iP	17
19	Epc: 23°N, 123°E O: 13-07-37, M: 4					PP	21 56
						PcP	22 21
	ZS	eP	13 09 33			S	26 24
	NK	e(P)	48		NK	+iP	20 22
	SA	e(P)	11 31			pP	42
	PK	e	52			PP	22 02
	LC	eP	12 20			iScP	26 02
		eS	16 06			iS	54
	CC	e(P)	12 24			SS	29 38
	LS	e(P)	13 42			iScS	30 20
					SA	(P)	20 35
						iS	27 00
						ScS	30 26
20	Epc: 51°N, 175°W O: 00-55-35, *M: 5.7				LS	+iP	20 41
						pP	21 04
	CC	+P	01 03 07			iS	27 04
		PP	04 46			iScS	30 31
		eS	03 09		LC	+iP	20 57
	PK	eP	04 13			PP	22 46
		eS	11 07			i	26 27
	ZS	+P	04 32			i	27 30
	NK	+iP	38			iS	35
		eS	11 52			iScS	30 45
	SA	iP	05 11		PK	+iP	21 24
	LC	eP	26			iS	28 22
	CT	+P	48			iScS	31 09
		eS	14 03			i	32 06
	CU	+iP	05 50		PT	P	21 26
	KM	+iP	06 21		DR	iP	27
		eS	15 05		CC	+iP	58
	LS	+P	06 45			PcP	23 08
						PP	24 04
						iS	29 25
						iScS	31 42
20	Epc: 9°S, 112°E O: 01-12-35 ht: 100km ca., M: 6½						
	CT	+iP	01 13 02	21	Epc: 5°S, 147°E O: 06-14-50, M: 6½		

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s		
21	CT	eP	06 23 00	22	*Epc: $14^{\circ}\frac{1}{2}S$, $168^{\circ}E$				
	ZS	eP	04		O: 23-12-47				
	NK	eP	21		NK	+P	23 53 40		
	PK	eP	24 15			CC	+iP	54 03	
	SA	iP	17			PK	+P	20	
	CU	+P	24				S	24 03 47	
		eS	31 59			KM	+iP	23 54 33	
	FT	eP	24 43				eS	24 04 07	
	LC	+P	49			CU	+P	23 54 39	
	LS	eP	25 30				eS	24 04 23	
			PT	eP		23 54 44			
			LS	+iP		55 32			
21	Epc: $24^{\circ}\frac{1}{2}N$, $122^{\circ}\frac{1}{2}E$			26	*Epc: $5^{\circ}\frac{1}{2}N$, $117^{\circ}E$				
	O: 07-16-30, M: $4\frac{1}{3}$				O: 02-17-32, M: $5\frac{3}{4}$				
	ZS	P	07 18 08		KM	+P	02 22 54		
		e(S)	19 23				PP	23 34	
	NK	e(P)	18 26				S	27 22	
		eS	19 52			PK	eP	24 26	
	CT	-iP	18 34			PT	-P	40	
		eS	20 07			CC	eP	25 03	
	SA	P	06				PP	26 37	
	CU	P	30				(S)	31 12	
	eS	23 38	28	Epc: $23^{\circ}\frac{3}{4}N$, $96^{\circ}E$					
KM	eP	20 36		O: 05-22-43, M: 5					
PT	eP	51		KM	e(P _n)	05 24 18			
CC	iP	56				eP	37		
LC	P	58				iS	25 52		
	S	24 29			LS	eP _n	24 24		
LS	eP	22 22					P	50	
21	Epc: $10^{\circ}\frac{1}{2}S$, $111^{\circ}\frac{1}{2}E$						S _n	25 40	
	O: 15-40-46, M: $4\frac{1}{3}$					CJ	eS	26 37	
	CT	eP				15 47 29	LC	eS	28 24
		eS	52 52			WH	e(P)	26 54	
	KM	-iP	47 55				e(S)	30 06	
		S	53 39	PT		e(P)	27 09		
	CU	-iP	48 36			e(S)	30 43		
		iS	54 51	NK		eP	27 32		
	ZS	P	48 45		eS	31 25			
		S	55 08	PK	eP	27 48			
NK	-P	48 48	ZS	eP	51				
	eS	55 16		eS	31 58				
LS	P	49 00	CC	eP	29 01				
	S	55 33		e(S)	34 04				
SA	iP	49 01							
LC	P	19							
	S	56 08							
PK	e(P)	49 48							
	eS	57 00							
PT	eP	49 49							
CC	-P	50 22							

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s	
28	Epc: $30^{\circ}\frac{1}{2}N$, $85^{\circ}\frac{1}{2}E$			29	PK	ScS	02 02 33	
	O: 10-46-29, M: $6\frac{1}{4}$				ZS	P	07 52 42	
	LS	-P	10 48 03				PcP	54 15
	YM	eP	49 48				PP	29
	CU	-P	50 25				PcS	58 12
		eS	53 26				S	59 31
	KM	iP	50 30				iScS	08 02 37
		S	53 38			NK	SS	47
	LC	+P	50 30				+P	07 52 49
		S	53 41				PP	54 39
	SA	+P	51 14				(S)	59 40
	PT	-iP	37			PT	iP	52 51
	TU	eP	55				S	59 46
	FL	eP	56			WH	P	53 18
	WH	P	52 03			SA	P	25
		S	56 31			LC	+iP	39
	CT	eP	52 16				PP	55 45
		S	56 47				S	08 01 10
	PK	-iP	52 19				ScS	03 22
		eS	56 54			CT	P	07 54 02
	NK	S	57 07				PcP	58
	DR	eP	52 58				PP	56 10
	ZS	-iP	53				S	08 01 55
		S	58 01				ScS	03 47
	CC	-P	53 23			CU	+P	07 54 04
		PP	54 33				S	08 02 00
		eS	58 48			KM	+P	07 54 26
							PcP	55 15
					PP	53 55		
					PcS	59 21		
					S	08 02 58		
					ScS	04 24		
				LS	+iP	07 55 03		
					PcP	57 34		
					PP	57 30		
					S	08 05 33		
28	* Epc: $52^{\circ}N$, $179^{\circ}\frac{1}{2}E$							
	O: 23-50-08, M: $5\frac{3}{4}$							
	CC	P	23 57 14					
	PK	+P	58 19					
	NK	eP	46					
	PT	P	47					
LC	+P	59 36						
29	Epc: $51^{\circ}\frac{1}{2}N$, $179^{\circ}E$							
	O: 07-44-13, M: $6\frac{1}{2}$							
	SW	eP	07 50 58					
	CC	+P	51 18					
		PP	52 43					
		ePcP	53 42					
		S	56 57					
		PcS	57 26					
	PK	+P	52 23					
		iPP	54 12					
		PcS	58 02					
	iS	54						
31	* Epc: $3^{\circ}\frac{1}{2}S$, $143^{\circ}\frac{1}{2}E$							
	O: 19-02-54, M: $5\frac{3}{4}$							
					KM	eP	19 12 00	
						eS	19 17	
					CC	eP	12 31	
					PT	eP	31	
					LS	eP	13 21	
						eS	21 43	
31	Epc: $24^{\circ}\frac{3}{4}N$, $122^{\circ}\frac{1}{4}E$							
	O: 23-29-30, M: $5\frac{1}{2}$							
	h: 70km, M: $5\frac{1}{2}$				ZS	-P	23 41 05	

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
31	ZS	sP	23 41 24	31	LS	i	23 52 09
		S	42 16			i(SoS)	55 53
		i	56				
	NK	-iP	41 27				
		e(sP)	45				
		S	42 56				
		i	43 29				
		i	40				
	CT	P	41 32				
		sP	50				
		eS	43 06				
		i	44 00				
	FL	eP	41 35				
		eS	43 15				
	WH	eP	41 43				
	DR	eP	42 53				
	SA	eP	43 03				
		(S)	45 56				
	PK	+P	43 26				
		sP	40				
		eS	46 15				
		SS	35				
		i	48 34				
	CU	-iP	43 29				
		PP	44				
		sP	53				
		eS	46 37				
	TU	eP	43 32				
	KM	-iP	37				
		sP	44 00				
		eS	46 54				
		SSS	47 32				
		i	48 58				
		i	49 34				
	PT	-iP	43 47				
		sP	44 10				
		PPP	19				
		i	47 23				
		iSS	41				
	CC	-iP	43 49				
		PP	44 07				
		sP	13				
		PPP	20				
		eS	47 17				
	LC	-iP	43 56				
		P	44 16				
		(sP)	22				
		PPP	27				
		eS	47 30				
		i	48 07				
	LS	+P	45 18				
		esP	42				
		PcP	48 28				
		eS	49 58				

November

1 Epc: 3°S, 150°¹/₃E
 0: 03-38-36, *M: 6¹/₂-6¹/₃

ZS	+P	03 46 47
	S	53 19
CT	e(P)	46 53
	iS	53 24
CC	eP	47 48
	S	55 11
PK	+P	47 58
	PcP	49 02
	PP	55
	S	55 28
SA	+P	48 04
KM	P	03
	eS	55 41
CU	P	48 17
	S	56 05
TS	eP	48 24
PT	eP	27
YC	eP	35
LC	+P	37
	iS	56 42
WW	eP	48 51
LS	+P	49 25
	iS	58 12

1 Epc: 3°¹/₂S, 146°E
 0: 06-06-44

CT	(P)	06 14 37
	S	20 42
KM	(P)	15 50
	eS	23 08
PK	eP	15 53
	S	23 11
CU	+P	16 02
	S	23 30
LS	+iP	17 11
	S	25 36

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
1 *Epc: 17° $\frac{1}{2}$ S, 169°E O: 12-15-43				2 NK eP 10 53 53			
					SA	+P	54 26
					LC	P	42
	CU	eP	12 26 54		CU	eP	55 04
	CC	eP	27 14		CT	eP	10
	PK	eP	33		KM	iP	37
	KM	eP	42		LS	eP	56 00
		eS	37 24				
1 Epc: 17° $\frac{1}{2}$ S, 168°E O: 12-16-38, M: 5 $\frac{3}{4}$				3 Epc: 30° $\frac{1}{2}$ N, 84° $\frac{1}{2}$ E O: 14-31-40, M: 5			
	CT	(P)	12 27 35		LS	+iP _n	14 33 09
		iS	36 28			iS _n	34 15
	NK	eP	27 39		CU	P	35 32
		S	36 38			eS	38 35
	CC	+P	28 05		KM	+P	35 36
		eS	37 26		LC	eP	38
	PK	eP	28 19		SA	P	36 23
		iS	37 54		PT	P	44
	KM	P	28 30		PK	eP	37 26
		eS	38 12		CC	eP	38 29
	CU	P	28 39				
		iS	38 31	4 Epc: 27° $\frac{1}{2}$ N, 141° $\frac{1}{2}$ E O: 08-28-25, *M: 5.7			
	LS	eP	29 30		ZS	eP	08 32 34
		iSKS	39 56		NK	+P	33 01
		S	40 11			S	36 43
		PS	41 14		PK	P	33 40
		3S	45 59		SA	P	34 23
					PT	P	23
1 Epc: 17° $\frac{1}{2}$ S, 168°E O: 15-50-14, After shock.					CU	eP	59
	PK	eP	16 01 57		LC	P	35 00
		S	11 33		KM	eP	16
	LS	eP	03 06			S	40 53
		SKS	13 33		LS	eP	36 35
		eS	47				
		PS	14 52	4 Epc: 27° $\frac{1}{2}$ N, 141°E O: 08-31-03, *M: 5.8			
2 *Epc: 51° $\frac{1}{2}$ N, 175°W O: 10-44-47, M: 5 $\frac{1}{2}$ -5 $\frac{3}{4}$					ZS	-iP	08 35 09
						S	38 27
	CC	+P	10 52 21		NK	-iP	35 31
	PK	eP	53 25			iS	39 13
		ePP	55 19		CC	eP	35 43
		eS	11 00 26			iS	39 30
		PS	34		PK	-iP	36 11
	ZS	+P	10 53 50			S	40 39
	PT	+P	51		CU	P	37 29

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
4	CU	S	08 42 41	7	Epc: 45°N, 149°E		
	KM	-P	37 51		O: 04-59-55, M: 5½		
		iS	43 16		After shock.		
	LS	P	39 07		CC	+P	05 03 56
		S	45 34		PK	+P	05 18
						S	09 37
6	*Epc: 6°S, 128°E				ZS	+P	05 27
	O: 15-30-06					eS	09 50
	h: 250km ca., M: 6.1				NK	eP	05 36
	ZS	-P	15 37 03		PT	+iP	56
		iS	42 25			eS	10 47
	NK	-iP	37 16		SA	eP	06 27
		iScP	42 32			eS	11 34
		iS	47		LC	+P	06 51
	KM	P	37 23			eS	12 23
		iS	43 01		CT	+P	06 59
	PK	iP	38 20		KM	+iP	07 47
		iS	44 44			ePP	09 26
	LC	-iP	38 26			S	14 06
		iS	44 54		LS	+P	08 35
	CC	eP	38 38			PP	10 28
	LS	iP	47			e(S)	15 34
		iS	45 32				
6	Epc: 44°N, 149°½E			7	Epc: 44°N, 149°½E		
	O: 22-58-09, *M: 8-8¼				O: 07-40-46		
	SW	eP	23 01 46		M: 5½-5¾, After shock.		
	CC	-iP	02 00		CC	P	07 44 36
	DR	P	50			eS	47 34
	PK	-iP	03 24		PK	iP	45 59
	ZS	iP	34			S	50 11
		iS	07 56		NK	eP	46 19
	NK	+iP	03 42		PT	P	39
		eS	08 06			eS	51 17
	TU	P	03 48		SA	eP	47 03
	PT	iP	04 04			eS	52 15
	YC	eP	35		LC	+iP	47 34
	TS	eP	53			iS	52 53
		iS	10 12		KM	P	48 29
	WW	P	04 59			S	54 42
		iS	10 23		LS	eP	49 18
	LC	+iP	04 59			iS	56 08
		iS	10 25	7	Epc: 44°N, 149°½E		
	SN	eP	05 11		O: 10-29-25, After shock.		
		iS	10 44		CC	P	10 33 06
	CU	+iP	05 21		PK	eP	34 31
	YM	P	25		NK	eP	51
		iS	11 10		PT	+P	35 14
	KM	+iP	05 55			eS	39 54
	LS	+iP	06 42				

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
7	SA	eP	10 35 46	7	PT	+P	17 38 39
	LC	+iP	36 08			eS	43 19
		eS	41 28		SA	eP	39 10
					LC	+iP	35
						S	45 00
7	Epc: $44^{\circ}\frac{1}{2}N$, $149^{\circ}E$				CU	eP	39 58
	O: 11-24-24				KM	+P	40 31
	M: $5\frac{1}{4}$, After shock.						
	CC	+P	11 28 22	7	Epc: $44^{\circ}\frac{1}{2}N$, $149^{\circ}\frac{1}{2}E$		
	PK	+iP	29 46		O: 19-14-35, M: $4\frac{3}{4}$		
		eS	34 05		After shock.		
	ZS	+iP	29 55		CC	P	19 18 35
		S	34 19		PK	+P	19 56
	NK	+P	30 04			eS	24 16
	PT	+iP	25		ZS	eP	20 10
	SA	+iP	56		NK	eP	17
		eS	36 08		PT	eP	35
	LC	iP	31 21		SA	eP	21 06
		eS	36 53		LC	+P	31
	CT	+P	31 27		KM	eP	22 27
	CU	+iP	42				
		iS	37 33	8	Epc: $52^{\circ}\frac{1}{2}N$, $159^{\circ}E$		
	KM	+iP	32 17		O: 09-22-52, M: $5\frac{3}{4}$		
		PP	33 57		CC	+iP	09 26 00
		S	38 36			PP	43
	LS	+P	33 04			S	32 28
		iS	40 02		PK	P	29 20
						S	34 29
7	Epc: $44^{\circ}N$, $149^{\circ}\frac{1}{2}E$				ZS	+iP	29 48
	O: 14-24-30, After shock.					PP	31 05
	PK	eP	14 29 58			S	35 20
		S	34 19			ScS	40 09
	NK	-P	30 19		PT	+iP	29 52
	PT	eP	37		NK	+iP	53
	LC	eP	31 31			PP	31 11
		S	37 02		SA	+iP	30 30
	KM	eP	32 29			S	36 37
					LC	+iP	30 48
						iPP	32 26
7	*Epc: $43^{\circ}.9N$, $147^{\circ}.9E$				CU	+iP	31 18
	O: 17-32-52, M: $5\frac{1}{2}$					PP	33 05
	CC	P	17 36 37		KM	+iP	31 53
	PK	P	37 59			PP	33 51
		S	42 14			S	39 05
	ZS	+P	38 09		LS	+iP	32 24
		eS	42 32			ePP	34 31
	NK	+P	38 21			e(S)	40 03
		eS	42 53				

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
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8 LS SecS 09 42 11

9 Epc: 44°N, 149° $\frac{1}{2}$ E
 O: 10-17-41
 M: 4 $\frac{1}{2}$, After shock.

8 Epc: 44°N, 149° $\frac{1}{2}$ E
 O: 12-08-30, After shock.



CC	eP	12 12 31
PK	P	13 54
	S	18 12
PT	eP	14 34
SA	eP	15 03
LC	eP	28
	eS	20 53

CC	P	10 21 40
RK	P	23 00
ZS	P	13
NK	eP	22
PT	eP	45
	eS	28 46
LC	eP	24 34
	eS	30 17
CU	eP	25 00
LS	eP	26 17

8 Epc: 10° $\frac{1}{2}$ N, 92°E
 O: 19-36-41, M: 4 $\frac{1}{2}$

✓ KM	+P	19 40 51
	S	44 09
✓ LS	(P)	41 08
	eS	44 31
✓ CU	iP	41 52
	ePP	42 18
✓	eS	46 00
✓ CT	eP	42 01
✓ LC	eP	35
	eS	47 13
✓ SA	eP	42 38
✓ PT	eP	43 28
	eS	49 46
✓ PK	eP	43 52
✓ CC	P	44 53

9 Epc: 44°N, 148° $\frac{1}{2}$ E
 O: 17-52-57
 M: 4 $\frac{3}{4}$, After shock.

CC	+P	17 56 48
PK	+P	58 11
	S	18 02 26
ZS	(P)	17 58 21
	eS	18 02 42
NK	+P	17 58 30
PT	eP	51
	eS	18 03 36
SA	eP	17 59 22
LC	eP	48
	S	18 05 12
CT	eP	17 59 54
CU	+P	18 00 11
	iS	06 54
KM	(P)	00 41
	S	06 54
LS	eP	01 32
	iS	08 21

9 Epc: 44°N, 149° $\frac{1}{2}$ E
 O: 03-14-52
 M: 4 $\frac{1}{2}$, After shock.

PK	eP	03 20 08
	eS	24 23
ZS	P	20 25
	e(S)	24 31
NK	eP	20 29
PT	eP	57
	S	25 42
LC	eP	21 43
	eS	27 14
CU	(P)	22 07
	eS	27 53
KM	eS	28 54
LS	eP	23 33

9 * Epc: 44°N, 148°E
 O: 21-04-55

PK	eP	21 10 05
ZS	+P	12
NK	eP	21
PT	eP	39
	eS	15 35
SA	eP	11 14
LC	eP	38
CU	+P	12 03
	S	17 48

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
14	PT	eS	05 45 39	14	PK	-iP	13 57 05
	SA	P	41 25			pP	32
		S	46 31			sP	39
	IC	+P	41 50			PcP	58 30
		iS	47 17			ePP	53
	CU	P	42 15			iS	14 03 56
		iS	48 00			PS	04 25
	KM	iP	42 47			ScS	06 50
		iS	49 01			SS	07 24
	LS	P	43 34		LC	-iP	13 57 15
		iS	50 27			pP	27
						sP	44
						iS	14 04 15
						PS	39
						SS	07 46
14	Epc: 69S, 131°E O: 13-48-33 h: 100km cr., M: 6 $\frac{1}{2}$				CC	-iP	13 57 19
	OT	P	13 55 09			pP	47
		esP	46			PcP	58 40
		S	14 00 26			iS	14 04 24
	ZS	-iP	13 55 46			PS	48
		pP	56 10			ScS	07 03
		sP	21		YC	eP	13 57 24
		PP	57 17		PT	P	24
		iS	14 01 34			iS	14 04 31
		SS	04 17		SN	eP	13 57 28
		iScS	05 46		WW	eP	32
	NK	-iP	13 56 00		LS	-P	41
		sP	33			pP	58 03
		PP	57 38			PcP	50
		iS	14 01 58			PP	59 45
		iSS	04 55			PPP	14 00 49
		iScS	06 00			PcS	02 41
	KM	-P	13 56 17			iS	05 00
		sP	50			PS	33
		PP	58 00			isS	40
		ScP	14 01 55			iScS	07 23
		PcS	02 02			SS	08 43
		iS	26		YM	eP	13 58 06
		SS	05 34				
		ScS	06 14				
	SA	-iP	13 56 44	15	Epc: 44°N, 148°E O: 09-00-59, *M: 6 $\frac{1}{2}$ -6 $\frac{3}{4}$		
		pP	57 05		CC	-iP	09 04 42
		sP	15		PK	-P	06 07
		iS	14 03 18			i	21
		SS	06 33			PP	38
	CU	-iP	13 56 45			i	10 14
		PP	53 27			S	18
		ScP	14 02 09			i	25
		PcS	16			-P	06 18
		iS	03 13		ZS	i	32
		PS	40			eS	10 35
		sS	50			-P	06 28
		iScS	06 33		NK		
	TS	eP	13 56 59				

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
8	LS	ScS	09	42	11	9	Epc: 44°N, 149° $\frac{1}{2}$ E O: 10-17-41 M: 4 $\frac{1}{2}$, After shock,					
8		Epc: 44°N, 149° $\frac{1}{2}$ E O: 12-08-30, After shock,										
	CC	eP	12	12	31		CC	P	10	21	40	
	PK	P		13	54		RK	P		23	00	
		S		18	12		ZS	P			13	
	PT	eP		14	34		NK	eP			22	
	SA	eP		15	03		PT	eP			45	
	LC	eP			28			eS		28	46	
		eS		20	53		LC	eP		24	34	
								eS		30	17	
							CU	eP		25	00	
							LS	eP		26	17	
8		Epc: 10° $\frac{1}{3}$ N, 92°E O: 19-36-41, M: 4 $\frac{1}{2}$				9	Epc: 44°N, 148° $\frac{1}{2}$ E O: 17-52-57 M: 4 $\frac{3}{4}$, After shock,					
	KM	+P	19	40	51		CC	+P	17	56	48	
		S		44	09		PK	+P		58	11	
	LS	(P)		41	08			S	18	02	26	
		eS		44	31		ZS	(P)	17	58	21	
	CU	iP		41	52			eS	18	02	42	
		ePP		42	18		NK	+P	17	58	30	
		eS		46	00		PT	eP			51	
	CT	eP		42	01			eS	18	03	56	
	LC	eP			35		SA	eP	17	59	22	
		eS		47	13		LC	eP			48	
	SA	eP		42	38			S	18	05	12	
	PT	eP		43	28		CT	eP	17	59	54	
		eS		49	46		CU	+P	18	00	11	
	PK	eP		43	52			iS		05	54	
	CC	P		44	53		KM	(P)		00	41	
								S		06	54	
9		Epc: 44°N, 149° $\frac{1}{2}$ E O: 03-14-52 M: 4 $\frac{1}{2}$, After shock,					LS	eP		01	32	
	PK	eP	03	20	08			iS		08	21	
		eS		24	23							
	ZS	P		20	25		9	*Epc: 44°N, 148°E O: 21-04-55				
		e(S)		24	31			PK	eP	21	10	05
	NK	eP		20	29			ZS	+P		12	
	PT	eP			57			NK	eP		21	
		S		25	42			PT	eP		39	
	LC	eP		21	43				eS		15	35
		eS		27	14			SA	eP		11	14
	CU	(P)		22	07			LC	eP		38	
		eS		27	53			CU	+P		12	03
	KM	eS		28	54				S		17	48
	LS	eP		23	33							

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s		
9	KM	+P	21	12	36	12	SW	P	20	27	17		
		S		18	49		CC	iP			25		
	LS	eP		13	23		DR	eP		28	15		
11	Epc: 44°N, 149°E O: 13-45-48, After shock.						PK	+iP			48		
		CC	eP	13	49		41	S		33	01		
		PK	P		51		02	ZS	+iP		28	57	
			e(S)		55		17	S		33	23		
		ZS	P		51		13	NK	+iP		29	06	
			e(S)		55		35	S		33	35		
		NK	eP		51		23	TU	P		29	10	
		SA	eP		52		12	PT	+iP			27	
		LC	P				36	S		34	09		
			eS		58	03	SA	+iP		29	58		
		CU	P		53	01	YC	eP		30	02		
	S		58	45	S		35	13					
KM	P		53	34	TS	P		30	18				
	eS		59	46		iS		35	41				
12	*Epc: 19°N, 122°E O: 03-58-21					LC	+iP		30	22			
		KM	eP	04	02	35	iS		35	48			
		CU	iP			52	WW	eP		30	24		
			eS		06	26	CT	+iP		30			
		PK	S		07	09		PP		32	01		
		LC	eP		03	28	S		36	06			
		LS	S		09	21	SN	eP		30	35		
							YM	eP			50		
							KM	+iP		31	19		
							S		37	31			
12	Epc: 24°N, 123°E O: 15-15-46, M: 4½					LS	+iP		32	04			
		ZS	iP	15	17	37	iS		38	57			
		NK	P		18	00	13	Epc: 44°N, 148°E O: 02-56-33, M: 5½ After shock.	CC	eP	03	00	22
			e(S)		19	42			PK	+P		01	46
		CT	e(P)		18	11				eS		05	59
			e(S)		20	05			ZS	eP		01	55
		WH	eP		18	14			NK	iP		02	06
		SA	eP		19	40				eS		06	34
		PK	i			48			PT	eP		02	24
		KM	eP		20	12			S		07	06	
					SA	eP				02	57		
						eS				08	06		
12	Epc: 44°N, 149°E O: 20-23-31 h: 50km ca., M: 6¾					LC	+P		03	21			
							S		08	49			
							CT	eP		03	30		
								eS		09	04		
					CU	+P		03	46				
						S		09	30				

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
13	KM	+P	03	04	18	13	CC	eS	06	03	57
		S		10	30		PK	-iP			45
	LS	eP		05	05		ZS	eP			04 02
		eS		11	55			S			07 30
							NK	-P			04 12
								iS			07 47
							PT	eP			04 35
								eS			08 28
							SA	eP			05 11
								S			09 32
							LC	eP			05 38
								PP			06 29
								S			10 17
							CU	eP			06 06
								S			11 12
							LS	eP			07 27
13	Epc: 44°N, 148°E O: 04-04-45, M: 5½ After shock.					13	Epc: 9½°N, 93½°E O: 13-16-36, *M: 5¼				
	CC	+P	04	08	31		KM	P	16	20	49
	PK	+iP		09	55			eS			24 10
		iS		14	08		LS	(P)			21 12
	ZS	+iP		10	05			iS			24 55
		PP			41			iScS			32 33
		i(S)		14	21		CT	P			21 42
	NK	+iP		10	13		CU	iP			46
		PP			54			iScS			32 46
		eS		14	37		LC	+P			22 28
	PT	+iP		10	35		SA	+P			29
		(S)		15	12			eS			27 10
	YC	eP		11	06		PT	+P			23 21
	SA	+iP			05		PK	P			40
	TS	eP			25		CC	+iP			24 41
	WW	eP			31						
	LC	+iP			31						
		i			46						
		ePP		12	42						
		S		16	54						
	CT	+iP		11	39						
		i			55						
		PP		12	57						
		S		17	11						
	SN	eP		11	40						
	CU	i(P)			56						
		PP		13	20						
		PcP		14	18						
		iS		17	37						
	KM	+iP		12	27						
		PP		14	04						
		PcS		18	07						
		iS			38						
	LS	+iP		13	15						
		PP		15	06						
		S		20	01						
13	Epc: 44°N, 139½°E O: 05-59-42, M: 5 After shock.					14	Epc: 44½°N, 148½°E O: 05-35-00, M: 5¼-5½ After shock.				
	CC	P	06	02	06		CC	(P)	05	38	52
								S			41 56
							PK	+P			40 15
								PP			50
								PPP			41 00
								S			44 29
								SS			45 17
							ZS	eP			40 27
								S			44 51
							NK	S			45 09
							PT	+P			40 55

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
14	PT	eS	05	45	39	14	PK	-iP	13	57	05
	SA	P		41	25			pP			32
		S		46	31			sP			39
	LC	+P		41	50			PcP		58	30
		iS		47	17			ePP			53
	CU	P		42	15			iS	14	03	56
		iS		48	00			PS		04	25
	KM	iP		42	47			ScS		06	50
		iS		49	01			SS		07	24
	LS	P		43	34		LC	-iP	13	57	15
		iS		50	27			pP			37
								sP			44
								iS	14	04	15
								PS			39
								SS		07	46
14	Epc: 6°S, 131°E O: 13-48-33 h: 100km ca., M: 6½						CC	-iP	13	57	19
	OT	P	13	55	09			pP			47
		esP			46			PcP		58	40
		S	14	00	26			iS	14	04	24
	ZS	-iP	13	55	46			PS			48
		pP		56	10		YC	eP	13	57	24
		sP			21		PT	P			24
		PP		57	17			iS	14	04	31
		iS	14	01	34		SN	eP	13	57	28
		SS		04	17		WW	eP			32
		iScS		05	46		LS	-P			41
	NK	-iP	13	56	00			pP		58	03
		sP			33			PcP			50
		PP		57	38			PP		59	45
		iS	14	01	58			PPP	14	00	49
		iSS		04	55			PcS		02	41
		iScS		06	00			iS		05	00
	KM	-P	13	56	17			PS			33
		sP			50			iS			40
		PP		58	00			iScS		07	23
		ScP	14	01	55			SS		08	43
		PcS		02	02			eP	13	58	06
		iS			26		YM				
		SS		05	34						
		ScS		06	14						
	SA	-iP	13	56	44	15	Epc: 44°N, 148°E O: 09-00-59, *M: 6½-6¾				
		pP		57	05		CC	-iP	09	04	42
		sP			15		PK	-P		06	07
		iS	14	03	18			i			21
		SS		06	33			PP			38
	CU	-iP	13	56	45			i		10	14
		PP		53	27			S			18
		ScP	14	02	09			i			25
		PcS			16			-P	06	18	
		iS		03	13		ZS	i			32
		PS			40			eS		10	35
		sS			50			-P		06	28
		iScS		06	33		NK				
	TS	eP	13	56	59						

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Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
15	NK	i	09 06 44	16	PK	P	06 20 50
		eS	10 52		ZS	eP	21 01
		i	11 04		NK	eP	11
	PT	eP	06 47		PT	eP	29
		S	11 29		SA	eP	22 00
	SA	eP	07 17		LC	+P	35
		S	12 22		CU	P	48
	LC	eP	07 41		KM	eP	23 22
		iS	13 04				
	CU	P	08 03	16	*Epc: 16°S, 172°W O: 17-44-48, M: 6 $\frac{1}{4}$		
		i	17		ZS	S	18 07 01
		PP	09 29		NK	S	27
		S	13 42		CC	PP	17 57 14
		SS	16 16		PK	(SKS)	18 08 18
	KM	P	08 43		CU	(SKS)	22
		i	59			S	09 17
		i	14 51		LS	SKS	33
		iS	54	16	Epc: 42°N, 106° $\frac{1}{3}$ E O: 20-23-57, M: 4 $\frac{1}{2}$		
		i	15 20		PT	P _n	20 24 49
	LS	eP	09 27			iP	55
		i	42			S _n	25 27
		PP	11 20			iS	36
		eS	16 12		YC	eP	02
		PS	20			(S)	49
15	Epc: 44°N, 149° $\frac{1}{2}$ E O: 09-53-12, After shock.				WW	e(P)	27
	PK	+P	09 58 17			(S)	26 31
		eS	10 02 37		LC	eP _n	25 29
	PT	eP	09 58 59			S _n	26 39
	SA	eP	59 33			S	27 16
	LC	P	52		SN	eP	25 58
	CU	eP	10 00 10			e	27 21
	KM	eP	48		YM	eS	41
		eS	07 10		PK	e(P)	26 18
	LS	eP	01 37		TS	e(S)	27 45
		eS	08 36		SA	S _n	08
16	Epc: 44°N, 149° $\frac{1}{2}$ E O: 04-47-31, M: 4 $\frac{3}{4}$ After shock.				CC	eP	20
	CC	eP	04 51 30			e(S)	30 02
	PK	eP	52 52		KM	eP	27 59
	ZS	eP	53 06			eS	31 12
	PT	eP	36		LS	P	28 00
	LC	eP	54 27			e(S)	31 18
16	Epc: 28°N, 139°E O: 21-46-07 h: 550km ca., *M: 5.6						

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
16	ZS	P	21 49 27	18	*Epc: 50° ¹ / ₂ N, 179°E		
		S	52 10		O: 07-45-20, M: 5 ³ / ₄		
	MK	P	49 48				
		iS	52 49		CC	P	07 52 30
	CC	P	49 58		PK	P	53 35
		sP	52 03		ZS	+P	55
	SA	eP	51 05			eS	08 00 49
		S	55 01		NK	eP	07 54 01
	LC	eP	51 42		PT	+iP	03
	KM	eP	58		SA	+P	37
		S	56 47		LC	+P	51
	LS	S	58 58		CU	eP	55 25
					LS	eP	56 15

17 *Epc: 10°¹/₂S, 162°¹/₂E
O: 09-46-30, M: 6-6¹/₄

ZS	P	09 56 18
NK	eP	56 34
CC	+P	57 02
PK	P	17
SA	P	28
KM	eP	31
CU	eP	39
PT	+P	45
LC	eP	55
LS	eP	58 39

18 Epc: 44°N, 149°¹/₂E
O: 18-33-00, M: 4¹/₂
After shock.

CC	eP	18 37 04
PK	+iP	38 26
ZS	eP	35
NK	P	46
PT	eP	39 03
LC	+P	40 00
	eS	45 41
CU	+P	40 16
KM	eP	57
	S	47 18
LS	eP	41 44

17 Epc: 44°N, 149°¹/₂E
O: 15-34-23, M: 4¹/₂
After shock.

CC	eP	15 38 22
PK	P	39 46
ZS	P	55
NK	eP	40 05
PT	eP	26
LC	+P	41 22
CU	+P	43
KM	+P	42 17

18 Epc: 33°³/₄N, 120°³/₄E
O: 19-27-00, M: 3¹/₂

NK	eP _n	19 27 41
	iP	46
	S	28 16
ZS	P _n	27 47
	P	54
	S	28 29
WH	(P)	59
	S	30 20
PK	eP _n	28 58
	e(S _n)	30 31
	S	31 01

17 *Epc: 12°N, 124°¹/₂E
O: 16-16-47

ZS	+P	16 21 17
NK	eP	31
KM	eP	22 11
CU	eP	32
PK	eP	49
LS	P	23 52

19 Epc: 44°N, 149°E
O: 09-23-49, M: 5¹/₂
After shock.

CC	P	09 27 44
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Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
19	CC	S	09 30 47	20	ZS	eP	14 13 08
	FK	+iP	29 09		CT	e(P)	22
		S	33 26		NK	eP	26
	ZS	+iP	29 19		WH	eP	36
		S	33 45			(S)	15 11
	NK	P	29 31				
		S	34 03	20	Epc: 45° ¹ / ₂ N, 149° ¹ / ₂ E		
	PT	+P	29 49		O: 14-18-06		
		S	34 37		h: 60km ca., M: 5		
	SA	+P	30 19		After shock,		
		S	35 34		CC	P	14 22 02
	LC	+iP	30 44			S	25 07
		iS	36 16		PK	+iP	23 26
	CT	eP	30 52			S	27 45
		eS	36 30		ZS	eP	23 40
	CU	+iP	31 04			S	28 09
		S	36 51		NK	eP	23 46
	KM	+iP	31 41			eS	28 21
		S	37 59		PT	+iP	24 05
	LS	+P	32 27			S	28 55
		S	39 22		SA	+iP	24 36
					LC	+iP	25 01
						eS	30 30
20	* Epc: 51° ¹ / ₂ N, 159° ¹ / ₂ E				CU	+iP	25 23
	O: 05-36-37, M: 5 ³ / ₄ - 6					eS	31 12
	CC	eP	05 41 50		KM	+iP	25 57
	PK	P	43 00			eS	32 17
	ZS	eP	29		LS	+iP	26 43
		eS	49 06			PP	23 37
	PT	eP	43 30				
	NK	eP	34	22	Epc: 10° ¹ / ₂ S, 112° ¹ / ₂ E		
	SA	eP	44 10		O: 00-04-23, M: 5 ¹ / ₂		
	LC	eP	26		CT	eP	00 11 05
	CU	P	57			S	16 26
	KM	eP	45 33		KM	-P	11 34
	LS	eP	46 02			S	17 21
					ZS	-iP	12 19
20	Epc: 44°N, 149°E					PP	14 00
	O: 06-31-20, M: 4 ¹ / ₂					S	18 40
	After shock,				NK	-P	12 24
	CC	eP	06 35 30		SA	-iP	38
	PK	P	36 52		LS	-iP	43
	ZS	P	37 14			S	19 18
	PT	eP	31		PK	P	13 21
	LC	eP	38 26			eS	20 35
	CU	eP	48		PT	-iP	13 26
					CC	-P	57
20	Epc: 25°N, 121°E					S	21 37
	O: 14-11-38, M: 4						

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
22 * Epc: 4°S, 131° $\frac{1}{2}$ E O: 01-56-56, M: 6						30 Epc: 32° $\frac{1}{2}$ N, 142°E O: 01-32-47, M: 5 $\frac{1}{2}$					
ZS		S	02	10	09	CC		-P	01	36	51
KM		+P	04	43				S		40	03
		ePP	06	20		ZS		-P		36	59
		S	10	46				iS		40	19
CU		e(P)	05	09		NK		P		37	17
		eS	11	33		PK		P			43
SA		S		39				S		41	43
LC		eP	05	42		PT		-iP		38	30
		S	12	35				PP		39	17
CC		eP	05	47				S		43	07
		eS	12	43		CT		P		38	35
PT		eP	05	49		SA		-iP			37
		S	12	50				S		43	19
LS		+P	06	10		CU		-iP		39	18
		iS	13	26				iS		44	29
						KM		P		39	42
								eS		45	09
						LS		-P		40	53
								S		47	19
23 Epc: 29° $\frac{1}{2}$ N, 87°E O: 20-15-52, M: 4 $\frac{3}{4}$						30 Epc: 38°N, 100° $\frac{1}{2}$ E O: 09-39-06, M: 4 $\frac{1}{2}$					
LS		P _n	20	16	52	WW		P _n	09	39	39
		S _n		17	37			P			43
KM		eP		19	21			S _n		40	02
CU		eP			22			S			06
LC		P			35	SN		eP _n		39	40
PT		(P)		20	47			eP			42
WH		e(P)		21	05	LC		P _n		40	02
PK		eP			28			P			11
CC		eP		22	34			S _n			44
								S			54
						YM		(P)			04
						YC		P			26
						SA		eP _n		41	04
						PT		eP _n			06
								S _n		42	33
						CU		e		41	11
						LS		eP			54
								e(S)		43	50
						PK		eP		42	11
								i		45	51
						KM		eP		42	14
						WH		e			24
						CC		eP		43	37
24 * Epc: 57° $\frac{1}{2}$ S, 65° $\frac{1}{2}$ W O: 06-48-57											
CT		+PKP	07	08	38						
KM		ePKP			40						
LS		iPKP			45						
CU		ePKP			56						
ZS		ePKP			57						
25 * Epc: 36° $\frac{1}{2}$ N, 141° $\frac{1}{2}$ E O: 09-12-54											
CC		eP	09	16	21						
PK		eP		17	26						
SA		P		18	30						
LC		eP		19	03						

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s
2 Epc: $44^{\circ}\frac{1}{2}N$, $149^{\circ}E$						3 CC +iP 16 04 42					
O: 01-12-22, M: $4\frac{1}{2}$						iS 07 46					
After shock of Nov. 12.20 ^h						WH eP 05 02					
CC	eP	01	16	25		PK	eP		08		
PK	+iP		17	47		PT	eP		40		
ZS	eP			54		SA	+P		47		
NK	eP		18	07		CU	e(P)		06	23	
PT	eP			25			iS		10	38	
SA	eP			57		LC	+P		06	24	
LC	+P		19	21			iS		10	40	
	eS			56		KM	eP		06	41	
CU	+P			43			iS		11	12	
KM	P		20	18							
3 Epc: $19^{\circ}N$, $121^{\circ}E$						7 Epc: $21^{\circ}\frac{1}{2}N$, $121^{\circ}\frac{1}{2}E$					
O: 09-48-22, M: $5\frac{1}{4}$						O: 01-09-18, M: $4\frac{1}{2}$					
CT	-iP	09	50	26		ZS	e(P)	01	11	08	
	iS			06		NK	e(P)		12	01	
ZS	P			18		SA	eP		13	21	
	eS			36		KM	eP		24		
WH	-iP			29		CU	eP		35		
NK	-P			34			S		16	56	
KM	-iP			40		PK	P		13	46	
	eS			59			eS		17	20	
SA	-iP			47		LC	eP		14	08	
CU	-iP			55			e(S)		18	03	
	iS			33		PT	eP		14	11	
PK	-iP			16		CC	eP		23		
	iS			10							
LC	-iP			32							
	iS			40							
PT	-iP			38							
	iS			53							
YC	eP			40							
SN	eP			48							
CC	P			50							
WW	eP			52							
LS	-iP			33							
	S			26							
	iScS	10	05	21							
3 Epc: $28^{\circ}\frac{1}{2}N$, $138^{\circ}E$						7 Epc: $4^{\circ}\frac{1}{2}N$, $126^{\circ}\frac{1}{2}E$					
O: 16-01-00, h: 550km ca.						O: 02-45-59, M: $5\frac{1}{2}$					
ZS	eP	16	04	08		CT	e(P)	02	51	00	
	iS			39			eS		55	06	
NK	eP			29		ZS	eP		51	43	
	iS			20							

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
7	ZS	eS	02	56	22	10	*Epc: 36° 7'N, 71° 2'E O: 03-43-45, h: 120km ca.					
	WH	eP		51	53		LS	-iP	03	47	47	
	NK	eP			56			iS		50	52	
	KM	eP		52	16		LC	eP		49	10	
		S		57	18		CU	eP			27	
	PK	P		53	05		SA	eP		50	16	
		S		53	47							
	LC	+P		53	16							
		S		59	05							
	CC	eP		53	31							
	LS	+iP			50		10	*Epc: 37°S, 176° $\frac{1}{2}$ E O: 07-02-59 h: 300km ca., M: 6 $\frac{3}{4}$				
		iS	03	00	05							
		ScS		03	47		CT	+iP	07	15	06	
8	Epc: 44°N, 149° $\frac{1}{2}$ E O: 12-08-26, M: 5 $\frac{1}{2}$ After shock of Nov. 12 20 ^h							pP		16	16	
	CC	e(P)	12	12	29			PP		18	30	
	PK	+iP		13	48			iS		25	10	
		S		18	08			sS		27	16	
	ZS	+P		13	58			SS		30	54	
		eS		18	25		ZS	+iP		15	09	
	NK	+iP		14	07			pP		16	19	
		S		18	40			PP		18	37	
	PT	+iP		14	27			SKS		25	01	
		eS		19	16			iS			15	
	WH	+iP		14	41		NK	+iP		15	20	
		eS		19	39			pP		16	29	
	SA	+P		14	58			iS		25	38	
		eS		20	11			sS		27	44	
	LC	+iP		15	22			SS		31	30	
		S		20	53		WH	+iP		15	25	
	CT	eP		15	30			pP		16	34	
	CU	+iP			45			sP		17	05	
	KM	+iP		16	20			iS		25	50	
	LS	+iP		17	06		CC	+iP		15	45	
		PP		18	59			sP		17	23	
		iS		24	00			iS		26	29	
							KM	+iP		15	46	
								pP		16	58	
								iPP		19	34	
								iS		26	30	
							PK	+iP		15	52	
								pP		17	03	
9	*Epc: 8°S, 118°E O: 08-00-30							PP		19	43	
	NK	eP	08	08	08			SKS		25	56	
	SA	eP			33			iS			39	
	LS	P			56			SS		33	12	
		eS		15	34		SA	+iP		15	55	
	LC	eP		08	58			iS		26	47	
	PT	eP		09	21		PT	+iP		16	10	
								iPP		20	14	

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
10	PT	S	07 27 16	11	CC	eS	18 45 57
	LC	+iP	16 14		NK	+P	42 33
		iPP	20 16			e(S)	46 06
		SKS	27 20		PK	eP	43 09
		iS	24			S	47 10
	LS	+P	16 36		WH	eP	43 14
		pP	17 48			eS	47 20
		S	27 58		PT	eP	43 57
					LC	eP	44 32

10 * Epc: 5°N, 126°E
 O: 14-39-00
 h: 200km ca., M: 5.7

CT	e(P)	14 43 39
	eS	47 21
NK	eP	44 34
KM	eP	53
	S	49 34
	iScP	51 17
CU	eP	45 18
	eS	50 15
	ScP	51 25
SA	+iP	45 20
PK	P	45
	PcP	48 10
	eS	51 07
	ScS	55 44
PT	eP	46 05
CC	eP	09
LS	eP	29
	ScP	51 58
	iS	52 25
	ScS	56 11

13 * Epc: 55° $\frac{1}{2}$ S, 22°W
 O: 09-07-30, M: 5.6

LS	ePKP	09 20 44
KM	ePKP	43
CT	ePIP	57
NK	-iPKP	27 11
ZS	-PKP	13
PK	PKP	35
CC	PKP	28 01

13 * Epc: 44° $\frac{1}{2}$ N, 149°E
 O: 14-28-33
 After shock of Nov. 12, 20^h

CC	eP	14 32 30
PK	eP	34 00
	e(S)	38 19
PT	eP	34 43
LC	eP	35 33

15 Epc: 44°N, 149° $\frac{1}{2}$ E
 O: 11-46-24, M: 4 $\frac{3}{4}$
 After shock of Nov. 12, 20^h

CC	eP	11 50 20
PK	+iP	51 44
	P	52 19
	eS	56 03
ZS	eP	51 52
NK	eP	52 05
PT	+P	23
	eS	57 19
WH	e(P)	52 43
SA	eP	53
CU	+P	53 40
	eS	59 29
KM	P	54 15
	eS	12 00 34
LS	eP	11 55 02

11 * Epc: 30° $\frac{1}{2}$ N, 140°E
 O: 15-33-25

CC	eP	15 37 40
NK	P	46
	eS	41 13
PK	eP	38 22
	eS	42 20
WH	eP	38 28
	eS	42 30

11 Epc: 30°N, 140°E
 O: 18-38-12, M: 4 $\frac{1}{2}$

ZS	eP	18 42 09
CC	eP	29

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s	
16	Epc: 31 $\frac{1}{2}$ N, 102°E			17	ZS	eP	15 35 47	
	O: 05-14-31, M: 4					S		37 00
	CU	-iP	05 15 (13)		NK	eP		36 16
		S	(36)		WH	eP		37 04
	TS	eP	16 03			eS		39 15
		S	17 01		CT	P		37 44
	LC	eP _n	15 54			eS		40 22
		iP	16 11		PK	P		37 49
		S	17 16			eS		40 38
	KM	e(P)	16 19		CC	P		37 58
		(S)	17 31		SA	P		38 15
	SA	eP _n	16 07			S		41 31
		P	38		PT	-P		38 38
	S	18 00		eS		42 15		
WH	eS	19 15	CU	eP		38 55		
				eS		42 44		
			LC	-P		39 06		
				S		43 08		
17	* Epc: 55°N, 162°W			KM	eP		38 17	
	O: 02-25-55				S		43 24	
CC	eP	02 34 26		LS	eP		40 45	
ZS	eP	35 50						
NK	eP	54	17	Epc: 4°S, 153 $\frac{1}{2}$ E				
CU	eP	36 57		O: 20-33-50				
			ZS	eP		20 42 21		
				eS		49 09		
17	Epc: 32 $\frac{1}{2}$ N, 137 $\frac{1}{2}$ E			CT	P		42 26	
	O: 08-57-13				S		49 17	
	h: 400km ca., M: 5 $\frac{1}{2}$			NK	+P		42 38	
ZS	-P	09 00 12	WH	eP			52	
	S	02 36	CC	eP		43 16		
CC	-iP	00 20	PK	eP		28		
	iS	02 54	SA	+P		36		
NK	-iP	00 32		eS		51 26		
	S	03 13	KM	eP		43 40		
PK	-P	01 02		eS		51 34		
	S	04 10	CU	+iP		43 48		
PT	-iP	01 47		S		51 49		
	S	05 29	PT	eP		43 57		
SA	-iP	01 51	LC	+P		44 08		
LC	-P	02 27		eS		52 26		
CU	-P	31	LS	P		44 55		
	S	06 44						
KM	e(P)	02 57						
	S	07 31	18	Epc: 37 $\frac{3}{4}$ N, 102 $\frac{1}{4}$ E				
LS	eP	04 09		O: 04-19-17, M: 4				
	S	07 41	WW	P		04 19 25		
				S		30		
17	Epc: 28 $\frac{1}{2}$ N, 128°E			SN	eP		33 40	
	O: 15-34-12, M: 5 $\frac{1}{4}$							

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s
18	SN	eS	04 19 55	19	LS	P	11 21 10
	LC	P _n	59			S	26 58
		P	20 01		KM	e(P)	22 13
		S _n	26			S	28 51
		S	28		PK	eP	31 04
	YC	eP	21				
		eS	21 04				
	SA	eP	28	19	*Epc: 16°S, 72°W		
	CU	e(P)	41		O: 11-14-40		
					h: 100km ca., M: 5 $\frac{3}{4}$		
18	Epc: 18°N, 120° $\frac{1}{2}$ E				CC	ePKP	11 54 22
	O: 07-26-16, M: 4 $\frac{1}{2}$				LS	PKP	37
	CT	-iP	07 28 15		CU	PKP	40
	WH	P	29 30		KM	ePKP	46
	ZS	eP	32				
	NK	P	38	19	*Epc: 51° $\frac{1}{2}$ N, 177° $\frac{1}{2}$ W		
	KM	-iP	30 26		O: 18-36-23, M: 5 $\frac{1}{2}$ -5 $\frac{3}{4}$		
		eS	33 52		CC	+P	18 43 47
	SA	-iP	30 43			PP	45 17
		S	34 22		PK	+P	44 50
	CU	-P	30 45			eS	51 39
		eS	34 23		ZS	P	45 11
	PK	eP	31 16			eS	52 17
	LC	-iP	25		NK	+P	45 16
		iS	35 39		PT	+iP	19
	PT	eP	31 37			S	52 28
	CCC	eP	52		WH	+P	45 45
	LS	-P	32 21		SA	+iP	52
						eS	55 29
18	Epc: 31° $\frac{1}{2}$ N, 102°E				LC	+P	46 07
	O: 17-06-18, M: 3 $\frac{3}{4}$					eS	53 56
	CU	-iP	17 06 59		CT	eP	46 28
	TS	eP	07 47		CU	+P	31
		eS	08 43		KM	eP	47 04
	LC	eP _n	07 40		LS	+P	30
		P	56			eS	56 33
		iS	09 00				
	SA	eP _n	07 58	20	Epc: 28° $\frac{1}{2}$ N, 128°E		
		(P)	08 04		O: 19-20-39, M: 5 $\frac{1}{3}$		
		S	09 45		7S	eP	19 22 14
	KM	S	18			i	23 09
	WW	eP _n	08 07			eS	26
		eP	27		NK	eP	22 45
	YC	eP	56			eS	24 21
	PT	e(P)	09 06		CT	P	04
						eS	26 44
19	*Epc: 6°N, 59°E				PK	+P	24 18
	O: 11-13-50					eS	27 07

Date	Sta.	Phase	h	m	s	Date	Sta.	Phase	h	m	s	
20	CC	P	19	24	27	25	Epc: $5^{\circ}\frac{1}{2}S$, $151^{\circ}\frac{1}{2}E$ O: 08-05-39, M: $5\frac{3}{4}$					
		eS		27	26		CT	+iP	08	14	09	
	SA	-P		24	42			eS		20	55	
		S		27	59			PS		21	17	
	PT	-P		25	06		NK	+iP		14	23	
		S		28	42			PP		16	14	
	CU	eP		25	24			S		21	24	
		S		29	12			PS			37	
	LC	-P		25	33		CC	+iP		15	05	
		PP			59			PP		17	09	
		S		29	31			eS		22	38	
	KM	P		25	43			PS			56	
		eS		29	51		PK	+iP		15	14	
	WW	eP		25	50			eS		22	58	
	LS	eP		27	13			PS		23	18	
								SS		26	52	
21	Epc: $44^{\circ}\frac{1}{2}N$, $80^{\circ}\frac{1}{2}E$ O: 05-46-26, M: $6\frac{1}{4}$						KM	+iP		15	19	
	YM	eP	05	49	29			eS		23	03	
	LS	-iP		50	27			PS			23	
		S		53	38		SA	+iP		15	19	
	WW	eP		50	37		CU	+iP			29	
	SN	eP			37			S		23	24	
	LC	+iP			56			PS			47	
		S		54	31		PT	+iP		15	43	
	YC	eP		51	06			S		23	49	
	TS	eP			21		LC	+iP		15	50	
	PT	+iP			21			PP		18	09	
		iS		55	19			S		24	09	
	CU	P		51	33		LS	+iP		16	35	
		S		55	42			eS		25	28	
	SA	+P		51	43			PS			49	
		S		56	00		26	* Epc: $21^{\circ}\frac{3}{4}S$, $179^{\circ}W$ O: 05-51-04, h: 600km ca.				
	KM	eP		52	05		NK	eP	06	02	20	
		PP			29		CC	-P			34	
		S		56	38		KM	-P	03	05		
	PK	P		52	06		CU	eP			11	
		S		56	30		28	Epc: $29^{\circ}\frac{1}{2}N$, $80^{\circ}E$ O: 05-34-38, M: $5\frac{1}{2}$				
	WH	-iP		52	39		LS	+iP	05	37	02	
		S		57	35			S		38	50	
	CC	+P		52	53		YM	eP			42	
		PP		53	57		SN	P		39	10	
		S		58	04							
	NK	-P		52	57							
		S		58	09							
	ZS	-P		53	15							
		S		58	41							
	CT	eP		53	16							
		S		53	40							

Date	Sta.	Phase	h m s	Date	Sta.	Phase	h m s	
28	WW	eP	05 39 19	31	* Epc: $23^{\circ}\frac{1}{2}S$, $178^{\circ}\frac{1}{2}W$			
	KM	+iP	21		O: 01-45-53			
		S	43 05		h: 400km ca., M: 6.3			
	CU	+iP	39 22		ZS	-P	01 57 19	
		S	43 09		CC	-P	45	
	LC	+iP	39 25		PK	-P	58 01	
		iS	43 18			pP	59 31	
	TS	eP	39 41			SKS	02 07 50	
	YC	eP	52			S	08 13	
	SA	+iP	40 03			sS	11 02	
		S	44 27		SA	-P	01 53 11	
	PT	+P	40 15			S	02 08 34	
		S	44 56		KM	-P	01 58 15	
	CT	+iP	40 54			eSKS	02 08 08	
		eS	45 56			S	38	
	PK	+iP	41 00			PS	10 49	
		eS	46 05		CU	-P	01 58 21	
	NK	+iP	41 18			sP	02 00 31	
		eS	46 37			SKS	08 14	
	ZS	+iP	41 38			S	51	
	CC	+iP	42 01			PS	11 03	
		eS	47 58		LC	eP	01 58 32	
						esP	02 00 40	
						(SKS)	08 26	
						S	09 14	
29	* Epc: $2^{\circ}\frac{1}{2}N$, $99^{\circ}E$							
	O: 22-38-22, M: $5\frac{1}{2}$							
	KM	P	22 43 33	31	Epc: $30^{\circ}\frac{1}{2}N$, $80^{\circ}E$			
		ePP	44 01		O: 03-45-23, M: $4\frac{1}{2}$			
		eS	47 28		LS	+iP	03 47 40	
		SSS	48 21			eS	49 25	
	LS	-P	44 20		CU	P	59	
		i	54		KM	+P	50 01	
		S	48 52		LC	+P	01	
		i	49 52		SA	+P	41	
	CU	eP	44 22		PT	eP	58	
		eS	48 56		PK	eP	51 38	
	SA	eP	45 33					
		eS	51 01		31	Epc: $46^{\circ}N$, $154^{\circ}E$		
	LC	eP	45 40		O: 10-30-19, *M: 5			
		S	51 12		CC	eP	10 35 20	
	PT	eP	46 29		PK	P	36 39	
		eS	52 42		NK	eP	37 00	
					PT	eP	13	
30	* Epc: $35^{\circ}\frac{1}{2}S$, $105^{\circ}\frac{1}{2}W$				LC	+iP	38 05	
	O: 08-37-56, M: 6				CU	+iP	33	
	PK	PKP	08 57 38			S	44 43	
		PP	09 01 22		KM	P	39 09	
	KM	PKP	08 57 59		LS	eP	49	
		PP	09 01 47					

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