International Seismological Centre

SEISMOLOGICAL BULLETIN

SOUTH POLE – BYRD SUPPLEMENT

JANUARY - MARCH, 1960

MSI – 229A

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U. S. DEPARTMENT OF COMMERCE

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COAST AND GEODETIC SURVEY—WASHINGTON

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FOR OFFICIAL DISTRIBUTION

International Seismological Centre

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The instrumental results tabulated in this supplement are from the following seismographic stations.

Station	Latitude	Longitude	Foundation	Elevation	Instruments	Components	T_o (Sec.)	T_g (Sec.)	Time Scale
South Pole (SPA) In Charge: W.S. Jacobs	90°S.	0°	1995 meters of ice.	2800 meters.	Benioff Paper. Wilson-Lamison (120°E.-60°W.)	Z	1.6	0.5	60mm/min.
					Horizontal Film.		5.6	0.48	15mm/mim.
BYRD (BYR) In Charge: L.E. Davis	80°01'S.	119°31'W.	2570 meters of ice.	1515 meters.	Benioff.	Z	1.2	0.5	60mm/min.
					Wilson-Lamison with G.E. Galvo.	N	6.2	3.5	30mm/min.
					Wilson-Lamison with G.E. Galvo.	E	7.2	3.5	30mm/min.

These stations were first established by the Coast and Geodetic Survey for the IGY to provide additional control for locati teleseismic epicenters in regions inadequately covered by previously existing stations and to provide data for studies in regional seismicity, crustal structure and other pertinent earth science problems.

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Date and Station	Phase (GCT)	h	m	s
Jan. 1				
BYR	eP'	04	30	47
	iSKP		34	18
Jan. 1				
SPA	iP	09	56	02
Jan. 1				
SPA	eP	10	30	46
Jan. 1				
BYR	e(P)	11	46	58
SPA	iP	11	47	12
Jan. 1				
BYR	iP	15	47	01
SPA	iP	15	47	32
Jan. 1				
BYR	eP'	23	32	00
SPA	iP'	23	32	11
	i		32	27
	i		32	50
Jan. 2				
SPA	eP	02	03	12
Jan. 2				
BYR	eP'	02	11	45
Jan. 2				
BYR	iP	03	32	21
SPA	iP	03	32	57
	i(PcP)		33	12
	ipP		33	35
	e		34	18
Jan. 2				
BYR	e(P)	05	21	01
SPA	eP	05	20	21
	e		20	43
Jan. 2				
BYR	e(P')	07	19	06
SPA	eP'	07	19	14
	i		19	21
	e		22	49
Jan. 2				
BYR	iP	08	34	11
SPA	iP	08	33	51
	iPP		34	49
	ePPP		35	10
	iPcP		36	34
	eL		40	24
Jan. 2				
BYR	iP	12	29	27
	ePP		30	53

Date and Station	Phase (GCT)	h	m	s
SPA	eP	12	28	39
	i		28	43
	i		28	56
	i		29	27
	iPcP		31	27
	eL		40	39
Jan. 2				
BYR	eP	13	49	45
Jan. 2				
SPA	iP	15	22	33
Jan. 2				
SPA	eP	16	18	55
	i		19	13
	i		19	48
Jan. 2				
BYR	eP	21	35	30
SPA	eP	21	35	42
Jan. 3				
BYR	eP'	01	32	04
Jan. 3				
SPA	eP	03	33	02
Jan. 3				
SPA	eP	03	45	19
Jan. 3				
BYR	eP	07	30	23
SPA	eP	07	31	35
	i		31	48
Jan. 3				
SPA	iP	10	52	04
	e		52	35
Jan. 3				
SPA	eP	11	19	32
Jan. 3				
SPA	eP	11	39	13
Jan. 3				
BYR	e(P')	11	43	33
SPA	eP'	11	43	27
	e		49	56
Jan. 3				
BYR	eP'	11	58	00
SPA	iP'	11	58	25
	i		58	33
	i		58	43
Jan. 3				
SPA	eP	13	19	06

Date and Station	Phase (GCT)	h	m	s
Jan. 3				
SPA	eP	14	15	21
	e		15	29
Jan. 3				
SPA	eP	14	20	51
	e		21	05
Jan. 3				
SPA	eP	20	38	08
Jan. 3				
BYR	e(P')	21	42	38
Jan. 4				
SPA	iP	10	35	27
	e		35	47
	ePcP		36	51
Jan. 4				
BYR	eP	11	53	22
SPA	eP	11	54	44
	e		54	59
Jan. 4				
SPA	eP	12	50	38
Jan. 4				
BYR	eP	15	17	37
SPA	iP	15	18	15
	e		18	25
	i		18	31
	i		18	54
	e		19	34
	e		19	45
Jan. 4				
BYR	iP	16	26	58
SPA	eP	16	26	09
Jan. 5				
BYR	eP	05	24	31
Jan. 5				
SPA	eP	06	34	38
Jan. 5				
SPA	iP	06	49	26
	i		49	36
	e(PcP)		50	18
Jan. 5				
BYR	e(P)	09	43	16
SPA	eP	09	43	50
	e		44	14
Jan. 5				
SPA	iP	18	00	23
Jan. 6				
SPA	eP	00	01	58
Jan. 6				
SPA	eP	03	02	44

Date and Station	Phase (GCT)	h	m	s
Jan. 6				
SPA	eP	03	20	43
	i		21	07
Jan. 6				
SPA	iP	06	16	41
Jan. 6				
SPA	eP	07	50	05
Jan. 6				
SPA	eP	11	29	54
Jan. 6				
SPA	eP	13	23	07
Jan. 6				
SPA	iP	18	43	01
	i		43	17
Jan. 6				
SPA	iP	19	28	58
	i		29	12
	e		29	39
	e		31	55
Jan. 6				
BYR	iP	20	29	14
Jan. 7				
SPA	eP	11	02	47
Jan. 7				
SPA	eP	12	21	59
Jan. 7				
SPA	iP	12	39	49
Jan. 7				
SPA	eP	13	03	10
	e		03	32
Jan. 7				
BYR	iP	13	35	17
	e(PP)		36	15
	e(PPP)		37	00
	eS		41	04
SPA	eP	13	35	03
	i		35	46
	iPP		36	22
	i(PcP)		37	20
	e(S)		41	12
	eL		44	29
Jan. 7				
BYR	eP	14	43	08
SPA	iP	14	42	54
	i		43	30
	e		44	23
Jan. 7				
BYR	eP	14	58	20
SPA	eP	14	58	06
	e		58	14
	e	15	00	36

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Date and Station	Phase (GCT)	h m s
Jan. 7		
BYR	eP	15 13 33
SPA	eP	15 13 16
	i	13 31
Jan. 7		
SPA	eP	17 33 02
	i	33 23
Jan. 7		
SPA	eP	20 24 33
Jan. 8		
BYR	iP	02 41 46
SPA	iP	02 41 27
	i	41 41
	e	41 18
	i	43 03
	ePcP	43 54
	i	44 19
	iL	48 11
Jan. 8		
SPA	eP	06 11 25
Jan. 8		
BYR	e(P)	07 54 57
SPA	eP	07 55 35
Jan. 8		
SPA	iP	08 33 33
Jan. 8		
SPA	iP	10 11 21
Jan. 8		
SPA	eP	10 28 57
Jan. 8		
BYR	iP	11 36 26
	ePP	37 38
	ePPP	37 58
	e	11 47 27
SPA	iP	11 36 10
	i	36 31
	e(PP)	37 02
	e	39 35
	e(S)	42 26
Jan. 8		
SPA	eP	12 41 12
Jan. 8		
BYR	iP	14 53 02
	eL	15 01 10
SPA	iP	14 52 47
	e(PP)	53 32
	e(PPP)	54 11
	eL	59 09
	e	15 01 51
	i	04 13

Date and Station	Phase (GCT)	h m s
Jan. 8		
SPA	iP	15 34 58
	e	35 39
	ePP	35 56
	e(PPP)	36 40
Jan. 8		
SPA	eP	17 47 11
Jan. 8		
SPA	eP	17 54 56
	e	18 00 49
Jan. 8		
BYR	eP	21 52 33
SPA	eP	21 52 13
	e	52 32
	ePcP	53 06
Jan. 8		
SPA	eP	22 28 39
Jan. 9		
SPA	eP	01 13 03
Jan. 9		
SPA	eP'	01 47 11
Jan. 9		
SPA	eP	04 11 09
Jan. 9		
SPA	eP'	04 17 50
Jan. 9		
SPA	iP	04 30 57
Jan. 9		
SPA	iP	04 56 57
	e	59 05
Jan. 9		
SPA	eP	05 53 24
	e	53 35
Jan. 9		
SPA	eP	05 56 56
Jan. 9		
SPA	eP	06 23 58
Jan. 9		
SPA	eP	06 43 54
Jan. 9		
SPA	eP'	07 02 47
Jan. 9		
SPA	iP'	07 42 38
	e	43 00
	epP'	43 27
	eSKP	45 35
	i	45 52
	e	47 41

Date and Station	Phase (GCT)	h m s
BYR	eP'	07 42 50
	e	43 00
	e	43 20
	ePKS	46 09
Jan. 9		
BYR	e(P)	07 55 11
SPA	eP	07 54 56
	e	55 51
Jan. 9		
SPA	eP	13 39 04
Jan. 9		
SPA	iP	14 18 04
Jan. 9		
SPA	e(P)	15 32 06
	e	32 11
Jan. 9		
SPA	iP'	18 08 46
	i	09 24
	e(PP)	12 24
Jan. 9		
BYR	eP	21 03 09
SPA	eP	21 02 55
	e	03 23
Jan. 10		
BYR	e(P)	02 44 13
SPA	eP	02 45 02
	e	45 22
Jan. 10		
SPA	iP	03 52 01
		52 33
Jan. 10		
SPA	iP	05 27 16
	i	27 24
	i	27 58
	e(PP)	28 42
	e(ScS)	38 03
	eL	40 26
BYR	eP	05 27 30
	e(PP)	29 04
Jan. 10		
SPA	eP	06 15 36
Jan. 10		
BYR	eP	07 30 45
SPA	iP	07 30 30
	e	32 25
Jan. 10		
SPA	eP	12 41 28
Jan. 10		
SPA	eP	13 07 48

Date and Station	Phase (GCT)	h m s
Jan. 10		
SPA	iP	13 21 06
Jan. 10		
SPA	eP'	23 51 22
	i	51 25
Jan. 11		
SPA	iP	00 20 41
Jan. 11		
BYR	e(P)	15 06 11
SPA	eP	15 05 49
	e(PP)	09 17
Jan. 11		
BYR	iP	15 06 47
SPA	iP	15 06 25
Jan. 11		
SPA	eP	15 15 49
Jan. 11		
SPA	eP	15 28 17
	e	28 35
Jan. 11		
SPA	eP	18 00 21
	e	00 38
Jan. 11		
SPA	eP	19 47 52
Jan. 11		
BYR	e(P)	23 07 09
Jan. 11		
SPA	eP	23 06 57
	e	07 14
	e	07 29
Jan. 12		
BYR	eP	02 48 00
SPA	eP	02 47 47
Jan. 12		
BYR	iP	03 16 18
	ePP	17 46
	e(S)	22 20
	eL	24 17
SPA	eP	03 16 02
	e	20 21
	e	21 15
Jan. 12		
BYR	eP	03 21 36
Jan. 12		
BYR	eP	05 51 11
Jan. 12		
BYR	eP	06 37 47

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Date and Station	Phase (GCT)	h	m	s
		h	m	s
SPA	eP	06	37	33
	e			45
	e		38	53
Jan. 12				
SPA	eP	08	04	14
	i			23
	ePcP		05	17
	e(PP)		06	04
Jan. 12				
SPA	eP	09	00	57
Jan. 12				
SPA	eP	10	57	48
Jan. 12				
BYR	iP	15	02	07
SPA	eP	15	01	52
	e		02	00
	e		03	26
Jan. 12				
SPA	eP	17	01	31
Jan. 12				
SPA	eP	20	08	21
Jan. 12				
BYR	eP	22	33	28
SPA	eP	22	34	04
	e			28
Jan. 12				
SPA	iP	23	52	09
	i			32
Jan. 13				
SPA	eP	06	29	39
Jan. 13				
SPA	iP	06	44	54
	e		46	52
Jan. 13				
SPA	eP	09	14	38
Jan. 13				
SPA	eP	09	51	56
Jan. 13				
SPA	iP	10	15	56
Jan. 13				
SPA	eP	13	15	47
Jan. 13				
BYR	iP	15	51	03
	eS	16	00	14
	eL	16	07	56
	eP'P'	16	19	36
	e(pP'P')	16	20	14
SPA	iP	15	51	53
	i		57	03
	e		58	11
	iS	16	01	27
	e		10	15
	eP'P'		19	27
	e(pP'P')		20	04

Date and Station	Phase (GCT)	h	m	s
Jan. 13				
BYR	i(P')	16	49	00
SPA	eP'	16	49	08
	i		49	18
	iSKP		53	22
Jan. 13				
SPA	iP	17	31	44
Jan. 14				
SPA	eP	05	46	53
Jan. 14				
BYR	eP	06	35	33
SPA	iP	06	35	23
Jan. 14				
BYR	iP	07	38	27
	ePP		39	57
SPA	eP	07	38	12
	ePP		39	29
	eS	07	44	28
Jan. 14				
BYR	eP	07	50	17
Jan. 14				
BYR	eP	08	31	15
SPA	eP	08	30	00
Jan. 14				
SPA	eP'	09	46	11
Jan. 14				
BYR	iP'	10	44	53
SPA	eP'	10	44	49
	e		45	35
	e(SKP)		46	45
Jan. 14				
BYR	e(P')	13	08	38
SPA	iP'	13	08	46
	i		08	53
Jan. 14				
SPA	eP	13	24	11
Jan. 14				
SPA	eP	13	33	30
Jan. 14				
SPA	eP	14	45	42
Jan. 14				
SPA	eP	15	41	48
Jan. 14				
BYR	iP	16	12	04
SPA	eP	16	11	44
Jan. 14				
BYR	eP	17	20	32

Date and Station	Phase (GCT)	h	m	s
		h	m	s
SPA	eP	17	20	17
Jan. 14				
SPA	eP	18	51	33
	e		52	00
Jan. 14				
BYR	iP	19	04	09
SPA	eP	19	03	53
	e		04	29
	e		05	03
Jan. 15				
BYR	iP	09	41	14
	e(pP)		41	41
SPA	iP	09	41	55
	i(pP)		42	21
	i(sP)		42	37
	iPP		44	24
	e		49	20
	eS		51	36
	eP'P'		10	09	12
Jan. 15				
BYR	eP	12	47	30
SPA	eP	12	47	13
Jan. 15				
SPA	iP	14	42	29
Jan. 15				
SPA	eP	23	43	38
Jan. 15				
SPA	iP	23	51	58
Jan. 16				
SPA	eP	07	05	18
	e		05	50
	ePP		06	14
Jan. 16				
SPA	iP	12	41	13
	ePcP		41	31
	ipP		43	12
Jan. 16				
SPA	eP	12	53	50
Jan. 16				
SPA	eP	13	08	16
Jan. 16				
BYR	eP	15	43	34
SPA	eP	15	43	57
	ePcP		44	17
	e		44	36
Jan. 16				
SPA	eP	18	15	28
Jan. 16				
BYR	eP	18	50	00

Date and Station	Phase (GCT)	h	m	s
		h	m	s
SPA	eP	18	50	17
	e		50	36
Jan. 16				
BYR	iP	21	08	50
SPA	iP'	21	09	04
	i		09	14
	i		09	27
	ipP'		09	50
	i		10	01
	e		11	14
Jan. 16				
BYR	eP	21	53	45
SPA	iP	21	53	54
	i		54	17
Jan. 17				
SPA	iP	03	09	23
Jan. 17				
SPA	iP'	03	10	31
Jan. 17				
SPA	eP	04	00	13
Jan. 17				
SPA	eP'	04	38	34
Jan. 17				
SPA	eP	05	26	15
Jan. 17				
SPA	eP	08	07	21
Jan. 17				
SPA	eP	15	35	46
Jan. 18				
SPA	eP	00	26	00
Jan. 18				
BYR	e(P)	01.	12	38
	e		13	14
SPA	iP	01	11	25
	es		17	11
Jan. 18				
BYR	e(P')	09	22	36
Jan. 18				
BYR	e(P)	17	01	29
SPA	eP	17	02	32
Jan. 18				
BYR	e(P)	18	44	00
SPA	eP	18	44	36
Jan. 18				
BYR	eP	19	43	24

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Date and Station	Phase	h	m	s
SPA	eP	19	43	59
	e		44	08
	ePP		48	09
Jan. 19				
SPA	eP	02	00	29
Jan. 19				
BYR	e(P')	02	36	11
	e(SKP)		39	50
SPA	eP'	02	36	17
	e(SKP)		39	56
	e		47	12
Jan. 19				
SPA	eP	05	37	12
Jan. 19				
BYR	iP	09	24	35
	epP		26	26
	e(P'P')		53	04
SPA	iP	09	25	04
	e		25	42
	i		26	15
	ipP		27	02
	eS		33	16
Jan. 19				
BYR	e(P)	11	22	43
SPA	eP	11	23	29
Jan. 19				
SPA	iP	12	06	43
Jan. 19				
SPA	eP	16	57	54
Jan. 19				
BYR	e(P)	19	38	12
SPA	iP	19	38	42
Jan. 19				
BYR	eP	20	25	59
Jan. 20				
BYR	e(P)	01	16	57
SPA	iP	01	16	47
	e		17	01
Jan. 20				
BYR	e(P)	03	00	13
SPA	iP	03	00	44
Jan. 20				
SPA	eP	05	05	28
Jan. 20				
SPA	eP	08	18	29
Jan. 20				
BYR	EP	10	19	56

Date and Station	Phase	h	m	s
SPA	eP	10	21	00
Jan. 20				
SPA	eP	11	48	27
Jan. 20				
SPA	eP	11	52	50
Jan. 20				
BYR	eP	20	08	52
Jan. 21				
SPA	iP	00	20	08
Jan. 21				
SPA	eP'	04	31	18
Jan. 21				
BYR	eP	10	53	51
SPA	eP	10	54	21
	ePcP		54	38
Jan. 21				
SPA	iP	13	03	16
	i		03	36
Jan. 21				
BYR	e(P)	17	54	43
SPA	iP	17	55	17
Jan. 22				
BYR	e(P')	02	33	33
Jan. 22				
BYR	iP	07	33	52
SPA	iP	07	34	37
	i		34	54
Jan. 22				
BYR	e(P)	07	48	06
SPA	eP	07	48	12
Jan. 22				
SPA	eP	11	25	12
Jan. 22				
BYR	iP	13	49	19
SPA	iP	13	48	57
	e		49	42
	e		49	55
Jan. 22				
BYR	e(P')	18	23	13
SPA	e(P')	18	23	43
Jan. 22				
SPA	eP	18	49	53
Jan. 22				
SPA	eP	22	26	51
Jan. 22				
SPA	eP	22	56	02

Date and Station	Phase	h	m	s
Jan. 22				
SPA	eP	23	07	41
	e		07	50
Jan. 23				
BYR	iP	04	54	00
	e		56	26
	e		56	43
SPA	iP	04	53	40
	e		54	16
	e		55	29
Jan. 23				
BYR	iP	06	34	34
Jan. 23				
BYR	iP	07	44	18
	e		54	46
	eS		55	09
	e		56	29
SPA	iP	07	43	58
	ePP		47	12
	ePPP		49	12
	e		53	56
	eS		54	24
Jan. 23				
BYR	eP	07	53	46
Jan. 23				
SPA	eP	08	16	52
Jan. 23				
BYR	e(P)	08	46	58
SPA	eP	08	46	39
Jan. 23				
BYR	e(P)	09	49	06
SPA	iP	09	49	42
Jan. 23				
BYR	eP	12	10	06
SPA	eP	12	11	35
Jan. 23				
SPA	eP	12	20	39
	e		22	34
Jan. 23				
BYR	e(P)	12	29	39
SPA	eP	12	30	14
	e		30	31
Jan. 23				
SPA	iP	13	22	57
Jan. 23				
BYR	iP	18	09	34
SPA	eP	18	09	13
	e		09	55
	e		10	38
	ePP		12	46
	ePPP		14	40

Date and Station	Phase	h	m	s
Jan. 23				
SPA	eP	22	09	47
Jan. 23				
SPA	eP	22	31	44
Jan. 24				
BYR	e(P)	01	20	00
Jan. 24				
SPA	eP	03	31	37
Jan. 24				
BYR	eP	04	32	50
	eL		52	06
Jan. 24				
SPA	iP	04	33	24
	i		33	39
	e		40	12
	e		41	16
Jan. 24				
SPA	iP	06	17	43
	i		17	54
Jan. 24				
SPA	eP	09	26	31
Jan. 24				
BYR	eP	09	27	43
SPA	iP	09	28	12
	epP		30	22
Jan. 24				
BYR	e(P)	12	29	01
SPA	iP	12	28	55
Jan. 24				
BYR	eP	17	08	13
SPA	iP	17	08	29
	i		08	41
Jan. 25				
SPA	eP	03	48	56
Jan. 25				
BYR	e(P')	09	05	56
Jan. 25				
BYR	eP	15	14	40
Jan. 25				
BYR	eP	16	40	41
SPA	iP	16	41	11
	e		43	21
Jan. 25				
SPA	eP'	16	55	33
Jan. 25				
SPA	eP	17	10	46
Jan. 26				
BYR	eP	03	28	56

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Date and Station	Phase (GCT)	h	m	s
Jan. 26				
BYR	eP	04	19	18
Jan. 26				
BYR	eP	09	01	46
Jan. 26				
BYR	eP	09	28	14
Jan. 26				
BYR	e(P)	09	30	44
Jan. 26				
BYR	e(P)	18	33	11
Jan. 26				
BYR	iP'	20	46	18
Jan. 26				
BYR	iP	22	30	51
Jan. 27				
SPA	eP	02	22	17
Jan. 27				
BYR	iP	04	32	54
	e		42	09
	e		52	05
Jan. 27				
SPA	iP	08	23	46
	e		23	59
Jan. 27				
SPA	eP	09	38	37
Jan. 27				
SPA	iP	10	17	21
Jan. 27				
BYR	iP	17	23	13
Jan. 27				
SPA	eP	21	00	13
Jan. 28				
SPA	eP	01	48	26
Jan. 28				
SPA	eP	01	53	40
	i		53	46
Jan. 28				
SPA	eP	14	02	09
Jan. 28				
SPA	iP	15	32	25
	e		32	45
Jan. 28				
BYR	eP	22	31	38
Jan. 29				
BYR	e(P')	07	52	41
SPA	eP'	07	52	23

Date and Station	Phase (GCT)	h	m	s
Jan. 29				
BYR	iP	07	54	28
	e(PP)		56	12
SPA	iP	07	53	30
	iPP		54	55
	eS		58	52
Jan. 29				
SPA	iP	08	15	25
Jan. 29				
BYR	iP	08	23	09
SPA	iP	08	23	01
	e		23	13
	i		23	36
	ePP		26	22
Jan. 30				
BYR	eP	00	48	29
Jan. 30				
BYR	e(P)	04	20	12
SPA	eP	04	20	44
	e		21	54
Jan. 30				
BYR	e(P)	05	19	23
SPA	iP	05	20	02
Jan. 30				
SPA	iP	07	44	49
Jan. 30				
BYR	eP	11	03	25
SPA	iP	11	04	00
Jan. 31				
BYR	iP	04	14	36
SPA	iP	04	14	52
	e		15	45
Jan. 31				
BYR	eP'	05	27	19
SPA	eP'	05	27	13
	e		27	39
Jan. 31				
BYR	iP	13	09	29
Jan. 31				
SPA	eP	16	52	16
Jan. 31				
BYR	e(P')	17	46	15
SPA	iP'	17	46	17
Jan. 31				
BYR	eP	19	18	27

Date and Station	Phase (GCT)	h	m	s
SPA	iP	19	19	04
Feb. 1				
BYR	eP'	02	27	33
Feb. 1				
BYR	iP'	03	00	41
SPA	eP'	03	00	37
Feb. 1				
SPA	eP	05	47	30
Feb. 1				
BYR	eP	10	30	20
Feb. 1				
SPA	eP'	12	18	38
Feb. 1				
BYR	e(P')	14	15	24
Feb. 1				
SPA	eP	15	54	23
	e		54	29
	e		55	08
Feb. 1				
BYR	iP	20	17	43
Feb. 1				
SPA	eP	20	18	20
Feb. 2				
BYR	eP	06	39	12
	e		39	28
	e(PcP)		40	21
	e		40	30
SPA	eP	06	39	43
	e(PcP)		40	23
	e		40	36
Feb. 2				
BYR	e(P')	08	29	49
SPA	eP'	08	29	45
Feb. 2				
BYR	eP	09	22	29
SPA	eP	09	23	12
	e	09	23	20
Feb. 2				
SPA	eP	17	22	26
Feb. 2				
BYR	eP	19	46	40
Feb. 2				
BYR	eP	23	53	31
Feb. 3				
SPA	eP	00	10	52
Feb. 3				
BYR	iP	02	29	46

Date and Station	Phase (GCT)	h	m	s
SPA	iP	02	30	17
	e			51
	e		35	14
Feb. 3				
BYR	e(P)	09	16	55
Feb. 3				
BYR	eP	12	03	26
SPA	eP	12	03	27
	e		03	42
Feb. 3				
BYR	e(P')	13	08	13
Feb. 3				
BYR	eP	13	40	54
SPA	eP	13	40	58
Feb. 3				
BYR	eP	14	39	27
SPA	eP	14	40	04
Feb. 3				
BYR	e(P)	18	04	03
SPA	eP	18	04	22
Feb. 3				
BYR	eP	18	22	24
SPA	eP	18	22	42
Feb. 4				
BYR	eP	03	59	06
	i			22
	i		59	42
	e	04	01	31
	ePP		02	14
	iS		09	02
	eL		22	19
SPA	eP	03	59	09
	ePP	04	02	24
	ePPP		04	12
Feb. 4				
SPA	eP	06	05	10
Feb. 4				
SPA	eP	07	21	18
Feb. 4				
BYR	eP	09	39	54
SPA	eP	09	39	54
	epP		40	21
	e		41	43
Feb. 4				
BYR	e(P')	10	39	53

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Date and Station	Phase (GCT)	h m s
SPA	eP'	10 39 34
Feb. 4		
BYR	e(P)	11 13 58
Feb. 4		
SPA	eP	12 22 34
Feb. 4		
BYR	e(P)	15 37 00
Feb. 4		
SPA	eP	15 49 56
	e	52 25
Feb. 4		
BYR	eP'	17 09 41
	e(PP)	11 55
	eL	40 18
SPA	eP'	17 09 36
	ePP	11 41
Feb. 4		
BYR	eP	17 34 16
SPA	iP	17 34 05
	i	34 42
Feb. 4		
BYR	eP	17 59 35
SPA	eP	17 59 28
Feb. 4		
SPA	eP	19 43 50
Feb. 4		
BYR	e(P)	20 48 20
SPA	eP	20 48 48
	epP	50 50
Feb. 4		
BYR	e(P')	21 16 30
SPA	e(P')	21 17 00
Feb. 4		
BYR	eP	22 11 01
SPA	eP	22 10 44
Feb. 5		
SPA	eP	00 12 11
Feb. 5		
BYR	eP	01 15 28
Feb. 5		
BYR	eP	01 20 21
Feb. 5		
BYR	eP	02 10 25
	e(PP)	12 05
SPA	eP	02 11 34
	e	11 45

Date and Station	Phase (GCT)	h m s
Feb. 5		
BYR	eP	05 52 23
SPA	eP	05 52 26
	e	52 51
Feb. 5		
SPA	eP	08 36 59
Feb. 5		
BYR	eP'	09 02 34
Feb. 5		
SPA	eP	12 44 09
Feb. 6		
BYR	e(P')	01 26 05
Feb. 6		
BYR	eP	01 32 56
SPA	eP	01 33 02
Feb. 6		
BYR	iP	01 38 58
Feb. 6		
BYR	eP	02 10 44
Feb. 6		
SPA	eP	05 18 21
Feb. 6		
BYR	eP	03 38 45
Feb. 6		
BYR	e(P)	11 48 40
SPA	eP	11 48 40
Feb. 6		
SPA	eP	14 50 02
Feb. 6		
BYR	iP	17 23 56
SPA	eP	17 23 20
Feb. 7		
SPA	eP	02 28 08
Feb. 7		
SPA	eP	02 41 18
Feb. 7		
BYR	eP	04 37 55
SPA	eP	04 38 27
Feb. 7		
SPA	eP	09 39 48
Feb. 7		
BYR	eP	10 20 35
	epP	22 34
	iPP	24 32

Date and Station	Phase (GCT)	h m s
SPA	eP	10 20 13
	e	20 24
Feb. 7	epP	22 22
BYR	iP	11 28 01
SPA	eP	11 28 36
Feb. 7		
SPA	eP	14 59 16
Feb. 7		
BYR	e(P)	22 46 21
Feb. 7		
BYR	e(P)	23 06 26
SPA	eP	23 05 55
Feb. 8		
BYR	e(P)	03 12 58
SPA	eP	03 13 28
Feb. 8		
BYR	e(P)	09 32 14
SPA	eP	09 32 16
	epP	32 42
Feb. 8		
SPA	eP	12 06 46
Feb. 8		
BYR	iP	12 51 20
	e	51 42
	eS	55 53
	eL	57 27
SPA	eP	12 52 02
	ePP	52 29
	e(PPP)	53 42
	eL	13 04 44
	e	06 59
Feb. 8		
SPA	eP	14 23 49
Feb. 8		
BYR	e(P')	19 13 20
	ePP	16 46
SPA	eP'	19 13 10
Feb. 8		
BYR	eP	19 17 39
SPA	e(P)	19 18 17
Feb. 8		
BYR	iP	19 18 18
SPA	iP	19 18 56
Feb. 8		
BYR	iP	22 06 48
Feb. 9		
BYR	e(P)	03 12 14

Date and Station	Phase (GCT)	h m s
SPA	eP	03 12 17
Feb. 9		
SPA	eP	05 41 25
Feb. 9		
SPA	eP	05 51 30
Feb. 9		
BYR	iP	12 09 14
SPA	eP	12 08 56
	e	12 17
Feb. 9		
BYR	e(P)	14 01 26
Feb. 9		
BYR	eP	16 47 23
SPA	eP	16 47 18
Feb. 9		
SPA	eP	17 01 13
Feb. 9		
SPA	eP	22 52 05
Feb. 10		
BYR	iP	00 08 52
	ePP	12 26
	e(PPP)	14 25
	eS	19 52
	eL	35 47
SPA	eP	00 08 32
	e	09 18
	e	09 26
	e(PP)	11 41
Feb. 10		
BYR	eP	01 28 46
SPA	eP	01 28 26
Feb. 10		
BYR	e(P)	01 41 53
SPA	eP	01 42 23
Feb. 10		
BYR	eP	02 12 09
SPA	eP	02 11 47
Feb. 10		
SPA	eP	04 12 26
Feb. 10		
SPA	e(P)	04 26 05
Feb. 10		
BYR	eP	08 01 36
	e	01 56
	i	02 05

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Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
Feb. 10	h m s		h m s	Feb. 14	h m s	Feb. 16	h m s
SPA eP	11 27 08	SPA eP	21 08 01	BYR iP	18 32 26	BYR iP	05 31 13
Feb. 10		e	08 56	ipP	32 57	iPcP	32 17
SPA eP	12 43 25	Feb. 12		SPA eP	18 33 04	e(PP)	33 43
Feb. 10		BYR eP	01 42 22	epP	33 37		
SPA eP	12 57 25	SPA eP	01 42 24	Feb. 14		SPA eP	05 31 45
Feb. 10		e	42 54	SPA eP	19 03 03	ePcP	32 30
BYR e(P)	15 57 24	Feb. 12		Feb. 14		e	33 05
SPA eP	15 57 28	BYR eP	04 21 37	BYR eP	19 40 44	e	33 25
e	58 00	Feb. 12		SPA e(P)	19 39 44	ePP	33 50
Feb. 10		BYR e(P)	04 56 58	Feb. 14		e	36 39
BYR iP	21 28 12	Feb. 12		BYR eP	20 35 08	Feb. 16	
Feb. 10		BYR e(P)	05 41 46	Feb. 14		BYR eP	10 47 49
SPA eP	22 03 29	Feb. 12		BYR eP	20 43 18	SPA eP	10 47 54
e	03 34	BYR e(P)	23 28 28	e	43 44	Feb. 16	
Feb. 10		Feb. 13		SPA eP	20 43 22	SPA eP	14 50 20
BYR eP	23 30 54	BYR iP	15 54 33	e	43 49	Feb. 16	
Feb. 11		e	54 59	Feb. 14		BYR eP	16 19 38
SPA eP	03 26 30	iPP	58 18	SPA eP	21 05 38	Feb. 16	
Feb. 11		SPA eP	15 54 14	Feb. 15		BYR eP	17 59 32
BYR eP	04 08 51	e	55 01	BYR iP	02 46 19	Feb. 16	
SPA eP	04 09 23	e	56 04	Feb. 15		SPA eP	18 14 42
e(PcP)	10 10	Feb. 13		BYR eP	03 54 50	Feb. 16	
e(PP)	11 49	BYR iP	20 50 46	Feb. 15		SPA eP	19 06 58
eS	17 29	ipP	51 24	BYR eP	05 27 04	Feb. 16	
Feb. 11		SPA eP	20 51 23	Feb. 15		SPA eP	19 18 57
BYR eP	04 38 08	epP	51 58	BYR iP	08 42 28	Feb. 17	
Feb. 11		Feb. 14		Feb. 15		BYR iP	00 12 05
BYR iP	05 57 22	BYR iP	05 30 25	SPA eP	11 06 39	SPA eP	00 12 39
SPA eP	05 57 39	e	30 58	Feb. 15		Feb. 17	
Feb. 11		SPA eP	05 31 05	BYR eP	22 28 09	BYR eP	05 07 39
SPA eP	06 47 25	e(PcP)	32 12	SPA eP	22 28 44	Feb. 17	
Feb. 11		Feb. 14		e	28 53	BYR eP	10 10 03
BYR eP	08 41 23	BYH iP	13 02 42	e	30 19	BYR eP	10 10 03
SPA eP	08 41 26	SPA eP	13 03 12	Feb. 16		SPA eP	10 10 38
e	42 06	Feb. 14		BYR eP	01 19 11	e	10 52
Feb. 11		SPA eP	15 50 00	SPA eP	01 19 46	Feb. 17	
BYR e(P)	10 48 28	e	50 10	e(PcP)	20 55	SPA eP	11 12 15
SPA eP	10 48 13	ePcP	50 26	e	21 08	Feb. 17	
e	48 40	Feb. 14		ePP	22 08	SPA eP	11 51 08
Feb. 11		BYR eP	16 49 24	Feb. 16		Feb. 17	
BYR iP	13 02 47	14		BYR iP	02 47 27	SPA eP	12 42 23
SPA eP	13 03 32	BYR eP	16 52 43	SPA eP	02 46 50	e	42 50
e	04 13	SPA e(P)	16 53 12	Feb. 16		Feb. 17	
ePcP	04 31	e	21	BYR eP	03 15 35	BYR eP	17 02 24
eP'P'	33 39	Feb. 14		SPA eP	03 16 11	SPA eP	17 02 15
Feb. 11		SPA eP	17 33 51	Feb. 16		e	02 33
BYR iP	21 07 57			BYR eP	05 19 47	e	02 43

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Date and Station	Phase (GCT)	h m s
Feb. 18		
BYR	eP'	19 41 19
Feb. 18		
BYR	eP'	21 54 21
Feb. 19		
BYR	eP'	05 28 50
Feb. 19		
BYR	eP'	10 55 37
	i	55 50
	e(pP')	56 49
	e	57 33
	iPP	58 32
	e(SKP)	58 42
	ipPP	59 03
	e	11 00 34
	e	00 35
	e	08 46
SPA	eP'	10 55 10
	i	55 30
	e	55 51
	e(pP')	56 09
	i	56 25
	ePP	57 19
	e	58 18
	e	58 42
	e	59 19
	e	11 09 25
	e	13 16
Feb. 19		
SPA	eP	12 36 16
Feb. 20		
BYR	e(P)	00 23 57
SPA	eP	00 24 41
	e	24 54
Feb. 20		
SPA	eP	00 41 07
Feb. 20		
SPA	eP	06 01 36
Feb. 20		
SPA	eP	07 54 13
	e	55 24
Feb. 20		
SPA	eP	11 17 10
Feb. 21		
SPA	eP	00 03 37
Feb. 21		
SPA	eP	00 16 16
Feb. 21		
BYR	iP	00 55 09
	ipP	55 22
	i(PP)	56 50
	e(pPP)	57 03
	eScP	01 00 36
	SPA iP	00 55 34
	epP	55 47
	e(sP)	55 58
	e	56 18
	e(PP)	57 16
Feb. 21		
SPA	eP	01 44 40
Feb. 21		
SPA	eP	06 18 24
Feb. 21		
BYR	eP	07 37 10
Feb. 21		
BYR	iP	09 49 13
Feb. 21		
BYR	e(P)	19 48 32
SPA	eP	19 49 01
Feb. 21		
SPA	eP	22 00 35
Feb. 21		
BYR	e(P)	22 56 42
SPA	eP	22 56 25
Feb. 22		
BYR	eP	00 57 06
SPA	eP	00 57 39
Feb. 22		
BYR	eP	01 04 17
	epP	06 28
SPA	eP	01 04 47
	ePcP	05 02
	epP	06 51
Feb. 22		
BYR	e(P)	01 44 32
Feb. 22		
BYR	iP	02 29 37
Feb. 22		
SPA	eP	03 44 57
Feb. 22		
SPA	eP	04 07 44
Feb. 22		
BYR	eP	05 29 28
SPA	eP	05 30 03
Feb. 22		
BYR	e(P)	07 12 35
Feb. 22		
BYR	e(P)	08 44 14
SPA	eP	08 44 43
Feb. 22		
BYR	eP	13 19 17
	e	20 02
Feb. 22		
SPA	eP	16 32 33
Feb. 22		
SPA	eP	16 49 10
Feb. 22		
SPA	eP	20 49 02
	e	49 13
Feb. 22		
SPA	eP	21 32 55
Feb. 22		
BYR	e(P)	23 00 07
Feb. 23		
SPA	eP	00 34 45
Feb. 23		
SPA	eP'	00 59 32
Feb. 23		
SPA	eP	01 30 22
Feb. 23		
BYR	eP'	02 28 34
	e(SKP)	31 59
Feb. 23		
BYR	eP'	09 42 42
Feb. 23		
SPA	eP	10 23 54
Feb. 23		
SPA	eP	11 19 36
Feb. 23		
BYR	eP	11 41 05
SPA	eP	11 41 36
	e(PcP)	41 47
	epP	43 21
Feb. 23		
SPA	eP	12 01 31
	e	01 34
	e	09 21
Feb. 23		
BYR	iP	12 49 53
SPA	eP	12 50 31
Feb. 23		
BYR	eP	16 17 20
SPA	eP	16 17 22
	e	17 39
	e	17 54
Feb. 23		
SPA	eP	17 39 57
Feb. 23		
BYR	eP	18 47 36
Feb. 23		
SPA	eP	21 01 10
Feb. 24		
BYR	eP	01 28 12
Feb. 24		
SPA	eP	07 42 53
Feb. 24		
SPA	eP	08 50 18
Feb. 24		
BYR	eP	08 52 13
SPA	iP	08 52 31
	e	52 38
	e	52 46
Feb. 24		
BYR	eP	08 58 12
Feb. 24		
SPA	eP	09 58 36
Feb. 24		
BYR	eP	15 45 04
Feb. 24		
SPA	eP	19 57 31
Feb. 24		
BYR	iP	21 49 26
	i	50 20
	e(PP)	52 37
	eS.	59 41
	eL	22 16 04
SPA	eP	21 49 30
	e	46
	e	50 46
	e	51 15
	eS	59 53
Feb. 24		
SPA	e(P)	22 19 21
Feb. 24		
BYR	eP	23 51 16
SPA	e(P)	23 51 53
	e	52 05
	e	52 40
Feb. 25		
SPA	eP	01 36 36
	e	37 40
Feb. 25		
BYR	iP	01 40 17
Feb. 25		
SPA	eP	03 46 00
Feb. 25		
SPA	eP	08 50 49

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Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
Feb. 25	h m s	Feb. 26	h m s		h m s	Feb. 29	h m s
SPA eP	10 22 45	BYR eP'	23 48 39	SPA eP	15 08 36	BYR iP	22 50 09
Feb. 25		eSKP	52 14	Feb. 27		Feb. 29	
SPA eP	15 36 43	SPA eP'	23 48 53	BYR eP	16 06 18	BYR eP'	23 59 15
e	37 45	e	49 04			March 1	
Feb. 25		e	49 17	Feb. 27		BYR eP	00 44 30
SPA eP	18 27 27	e	49 43	BYR eP	20 00 54		
		e	50 51			March 1	
Feb. 25		Feb. 27		Feb. 27		BYR eP	02 17 12
BYR iP	19 38 42	SPA eP	00 00 23	BYR e(P)	23 19 24		
Feb. 25		e	01 07	Feb. 28		March 1	
SPA eP	20 52 23	Feb. 27		BYR e(P)	01 28 21	BYR iP	03 36 42
Feb. 25		SPA eP'	00 26 48	Feb. 28		March 1	
BYR iP	21 08 00	Feb. 27		SPA eP	01 47 12	SPA eP	04 33 24
SPA eP	21 08 04	SPA eP	06 04 37	e	47 57	March 1	
Feb. 26		e	11 02	e	48 41	BYR eP	08 18 11
BYR eP	01 19 41	Feb. 27		Feb. 28		SPA eP	08 18 32
Feb. 26		BYR eP'	08 29 24	BYR eP	07 25 51	e	19 31
BYR iP	02 21 40	e	29 45			March 1	
		eSKP	32 54	SPA eP	07 27 21	SPA eP	11 51 33
SPA eP	02 21 28						
e	21 38	SPA eP'	08 29 42	Feb. 28		March 1	
e	22 30			BYR eP'	09 53 30	SPA eP	11 56 05
		Feb. 27					
Feb. 26		BYR iP	09 05 32	Feb. 28		March 1	
SPA eP	04 32 48	e(PcP)	06 19	BYR eP	10 39 49	SPA eP	12 03 14
e	34 43	eS	13 24				
		eSKS	22 46	Feb. 28		March 1	
Feb. 26				SPA eP	10 45 28	SPA eP	14 29 19
BYR eP	05 25 21	SPA eP	09 06 05				
e	26 50	e	06 10	Feb. 28		March 1	
e	31 09	ePcP	06 43	SPA eP	11 20 18	BYR eP	16 22 45
SPA eP	05 25 06	Feb. 27		Feb. 28		SPA eP	16 23 21
e	25 14	BYR iP	09 18 33	SPA eP	14 12 57		
e	28 40					March 1	
		SPA eP	09 17 55	Feb. 28		SPA eP	17 47 44
Feb. 26		e	18 23	BYR iP	23 18 37		
BYR iP	06 43 15					March 1	
		Feb. 27		SPA eP	23 18 30	SPA eP	20 10 38
SPA eP	06 43 51	BYR eP	10 06 52	e	18 36	e	10 45
ePcP	44 24			e	18 48	ePcP	11 11
e	44 55	Feb. 27					
		BYR iP	10 07 32	Feb. 29		March 1	
Feb. 26				BYR eP	00 05 21	BYR eP	22 08 01
SPA eP	08 33 12	SPA iP	10 08 05				
				SPA eP	00 05 14	March 2	
Feb. 26		Feb. 27		e	05 48	SPA eP	07 17 24
SPA eP	09 27 44	BYR eP	14 10 07				
				Feb. 29		March 2	
Feb. 26		Feb. 27		BYR eP	02 25 04	SPA eP	09 04 46
BYR eP	15 05 00	BYR iP	14 10 50				
				Feb. 29		March 2	
SPA eP	15 05 05	SPA eP	14 10 54	BYR eP	07 05 38	SPA eP	09 06 13
		e	11 12				
Feb. 26				Feb. 29		March 2	
BYR e(P')	15 33 38	Feb 27		SPA eP	11 02 35	SPA eP	09 42 04
		BYR eP	14 35 36				
SPA eP'	15 34 02			Feb. 29		March 2	
		SPA eP	14 35 40	SPA eP	14 30 10	SPA eP	21 09 14
Feb. 26							
BYR eP	17 29 38	Feb. 27		Feb. 29			
		BYR e(P)	15 08 31	SPA e(P)	14 59 05		

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Date and Station	Phase	(GCT)
March 2		h m s
SPA	eP	21 36 30
March 3		
BYR	eP	01 14 40
SPA	eP	01 14 46
March 3		
SPA	eP	02 47 32
March 3		
SPA	eP	03 36 13
March 3		
SPA	eP	03 48 00
March 3		
BYR	e(P)	04 17 56
SPA	eP	04 18 27
March 3		
SPA	eP	04 33 18
March 3		
BYR	e(P')	05 19 07
March 3		
BYR	eP	11 33 16
SPA	eP	11 32 49
	e	32 56
	e	33 47
March 3		
BYR	e(P)	14 23 58
March 3		
BYR	e(P')	14 34 32
March 3		
BYR	iP	15 47 39
SPA	eP	15 48 32
	e	48 49
	epP	49 04
March 3		
BYR	eP	19 27 56
SPA	iP	19 28 29
March 3		
BYR	e(P)	21 49 15
March 3		
BYR	eP	23 27 37
March 4		
BYR	e(P)	01 16 33
March 4		
BYR	eP'	02 35 16
March 4		
BYR	iP'	04 11 53
	iPP	13 37

Date and Station	Phase	(GCT)
		h m s
SPA	eP'	04 11 46
	e(SKP)	14 16
March 4		
SPA	eP	04 55 51
March 4		
SPA	eP	18 51 26
March 4		
SPA	eP	20 19 15
March 4		
BYR	eP	20 54 45
March 4		
SPA	eP	21 52 38
March 5		
SPA	eP	07 03 25
March 5		
SPA	eP	10 22 30
March 5		
BYR	iP'	11 44 13
	eSKP	47 29
March 5		
BYR	eP	14 02 41
	ePP	06 39
	eSKS	12 53
SPA	eP	14 02 24
	e	02 36
	e	03 18
	e	03 41
	e(S)	12 57
March 5		
SPA	eP	15 32 25
March 5		
BYR	e(P)	16 03 23
SPA	eP	16 03 08
March 5		
BYR	e(P)	21 00 32
SPA	eP	21 01 13
	e	01 31
	ePcP	02 06
March 5		
BYR	e(P)	21 06 07
SPA	e(P)	21 06 40
	e	06 51
March 5		
SPA	eP	21 33 45
March 6		
BYR	eP	02 35 32

Date and Station	Phase	(GCT)
		h m s
SPA	eP	02 35 14
	e	35 19
	e	35 33
March 6		
SPA	eP	03 13 35
March 6		
BYR	eP	04 01 24
March 6		
BYR	eP	10 18 52
March 6		
BYR	eP	11 42 15
March 6		
BYR	eP	12 03 20
March 6		
SPA	eP	15 11 18
March 6		
BYR	eP	15 24 30
March 7		
BYR	eP	00 22 33
March 7		
BYR	iP	05 26 40
SPA	eP	05 26 20
	e	27 09
March 7		
BYR	eP	06 00 45
March 7		
BYR	e(P)	08 06 57
March 7		
BYR	eP	09 50 13
	ePP	53 00
SPA	eP	09 50 22
	e	50 48
	ePP	53 09
March 7		
SPA	eP	10 59 09
March 7		
SPA	eP	18 42 13
March 7		
SPA	eP	20 28 23
March 7		
BYR	eP	23 15 27
March 8		
SPA	eP	07 06 09
March 8		
SPA	eP	09 52 02
March 8		
BYR	eP	11 55 55
	e	58 23
	eS	12 00 01

Date and Station	Phase	(GCT)
		h m s
SPA	eP	11 56 29
	e	56 38
March 8		
BYR	eP	14 49 30
SPA	eP	14 50 03
March 8		
BYR	iP	16 44 28
	epP	45 23
	ePP	46 46
	ePPP	48 48
	e	50 47
	eS	53 17
	esS	54 38
	eL	56 34
	i(P'P')	17 12 26
	e	14 25
	eSKPP'	15 41
SPA	iP	16 44 45
	ePP	47 52
	ePPP	49 00
	e	50 50
	e	52 08
	e	52 27
	eS	53 53
	epS	54 50
	e	17 09 50
	e	10 37
	e	12 01
	eP'P'	12 15
	e	12 22
March 8		
SPA	iP	19 38 16
March 9		
SPA	e(P)	12 10 19
March 9		
SPA	eP	13 42 34
March 9		
SPA	eP	14 49 54
	e	50 03
March 9		
BYR	eP	19 56 15
SPA	eP	19 56 20
	e	56 29
	e	56 37
March 9		
SPA	eP	21 33 35
March 9		
BYR	eP	22 18 17
SPA	eP	22 17 03
March 10		
	iP	00 05 09
	ipP	05 34

International Seismological Centre

Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s	March 11	h m s	March 13	h m s	March 16	h m s
SPA eP	00 05 49	BYR eP	01 58 15	BYR e(P)	14 09 30	BYR eP	00 39 39
epP	06 19					ePP	40 59
esP	06 39	March 11		March 13			
ePP	08 37	BYR e(P)	10 24 18	BYR e(P)	16 05 45	SPA eP	00 39 22
epPP	09 07					e	39 35
		March 11		March 13		e	39 51
March 10		SPA eP	10 32 27	BYR eP	21 07 42	e	40 25
BYR eP'	00 44 00					e	42 20
ePP	46 37	March 11		March 13			
		BYR i(P)	11 36 17	BYR eP	21 57 05	March 16	
SPA ePP	00 46 30					SPA eP	08 12 27
e	47 08	March 11		March 14			
e(SKP)	47 35	BYR eP	11 57 53	BYR eP	00 06 29	March 16	
						BYR eP	17 50 24
March 10		March 11		March 14			
SPA eP	00 47 49	BYR e(P)	15 21 32	BYR eP'	01 12 15	SPA eP	17 50 59
						e	50 05
March 10		March 11		March 14		e	50 14
BYR eP	05 09 06	SPA eP	21 19 20	BYR eP	04 33 34		
						March 16	
SPA iP	05 09 37	March 11		March 14		BYR eP	19 02 33
ePcP	10 03	SPA eP	22 36 47	BYR e(P')	05 26 54		
		e	37 07			March 16	
March 10		March 12		March 14		BYR e(P)	19 25 24
SPA eP	05 58 50	BYR e(P)	01 39 59	BYR eP	08 54 37	ePcP	26 52
March 10		SPA eP	01 40 29	SPA eP	08 54 54	SPA eP	19 25 58
SPA eP	07 14 40						
		March 12		March 14		March 16	
March 10		BYR eP	02 27 25	BYR eP	10 09 33	BYR eP	21 48 58
SPA eP	07 43 49	e	28 11			e	22 07 39
				SPA eP	10 09 11		
March 10		March 12				March 16	
BYS eP	09 57 00	SPA eP	06 19 13	March 14		BYR eP	21 53 13
		e	19 23	BYR eP	11 01 24		
SPA eP	09 57 08					SPA eP	21 53 48
e	57 16	March 12		SPA eP	11 01 01		
e	57 25	BYR eP	12 16 12			March 16	
				March 15		BYR e(P)	23 02 35
March 10		March 12		SPA eP	04 00 42		
BYR eP	10 45 56	BYR iP	13 56 15			March 17	
				March 15		BYR iP	01 31 13
March 10		SPA iP	13 57 00	SPA e(P)	06 37 40		
SPA eP	12 02 35	e(PcP)	57 59			March 17	
				March 15		BYR eP	11 44 41
March 10		March 12		SPA eP'	09 40 04		
BYR iP	13 55 34	BYR eP	20 43 12	e	40 18		
		e	44 18	e	40 29	SPA eP	11 45 16
SPA iP	13 56 08	e	44 55	e	41 07	e	36
e	56 14	eS	53 38	e	44 30		
ePcP	56 40	e	40			March 17	
		e(P'P')	21 07 27	March 15		BYR e(P)	12 14 05
March 10				SPA eP	10 20 14		
BYR eP'	14 51 51	SPA eP	20 43 13	e	20 28	March 17	
eSKP	55 11	e	43 41			BYR e(P)	12 30 15
				March 15		e	31 26
SPA eSKP	14 55 14	March 12		SPA eP	13 00 18		
		BYR eP	23 42 56			March 17	
March 10				March 15		SPA eP	15 51 12
BYR e(P)	19 30 03	March 13		BYR eP	19 41 35		
		BYR e(P)	00 33 34			March 17	
March 11				March 15		BYR iP	16 57 17
BYR eP	00 18 28	March 13		BYR eP	20 11 07		
		BYR eP	00 56 42			March 17	
March 11				SPA eP	20 10 38	BYR e(P')	20 33 20
BYR e(P)	00 36 31	March 13		e	10 51		
		SPA eP	03 10 40			March 17	
March 11						BYR eP	21 50 08
BYR e(P)	01 48 38	March 13					
		SPA eP	13 31 17				

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Date and Station	Phase (GCT)	h	m	s
SPA	eP	21	49	45
March 17				
BYR	e(P)	22	33	59
March 18				
BYR	eP	00	24	59
	e		25	40
March 18				
BYR	eP	06	47	08
March 18				
BYR	iP	10	47	27
	i		47	32
SPA	eP	10	47	39
	e		47	43
March 18				
BYR	eP	11	15	03
March 18				
BYR	eP	12	29	16
SPA	eP	12	29	18
	e		29	34
March 18				
BYR	eP	12	59	36
March 18				
BYR	iP	14	19	57
SPA	eP	14	20	34
March 18				
BYR	eP	14	47	02
March 18				
BYR	eP	21	09	56
March 18				
BYR	eP	22	27	49
March 18				
BYR	eP	22	32	46
SPA	eP	22	33	38
	e		33	47
March 19				
BYR	eP	09	34	32
March 19				
SPA	eP	16	47	12
March 19				
BYR	eP	19	28	43
SPA	eP	19	28	25
	e		28	52
	e		29	15
	e		29	47
	e		31	27
	ePP		31	58
	e		32	05

Date and Station	Phase (GCT)	h	m	s
March 20				
BYR	e(P')	13	56	02
March 20				
BYR	eP'	17	26	40
	e(PP)		29	02
	ePKS		30	23
March 20				
BYR	e(P)	18	41	28
March 21				
BYR	e(P)	00	02	44
March 21				
BYR	e(P)	00	48	12
March 21				
BYR	eP	00	54	03
March 21				
BYR	eP	02	00	42
March 21				
BYR	e(P')	07	10	53
March 21				
BYR	e(P)	08	30	29
March 21				
BYR	eP'	09	37	33
March 21				
BYR	iP	11	51	15
SPA	eP	11	51	51
	e		52	10
	e		52	26
March 21				
BYR	e(P)	14	50	58
March 21				
BYR	i(P)	15	04	56
March 21				
BYR	i(P)	15	56	44
March 21				
BYR	i(P)	16	12	20
March 21				
BYR	eP	16	50	22
SPA	eP	16	50	26
	e		50	50
March 21				
BYR	i(P)	19	33	04
March 21				
BYR	iP	19	59	28
SPA	eP	20	00	07
	e		00	10
March 21				
BYR	eP	23	38	55

Date and Station	Phase (GCT)	h	m	s
March 22				
BYR	iP	00	21	11
March 22				
BYR	iP	02	37	31
	eL		48	14
SPA	eP	02	37	21
	ePP		38	07
	e		38	39
	e		38	52
	e		39	17
	eL		44	50
March 22				
BYR	e(P')	10	42	10
March 22				
SPA	iP	12	36	35
March 22				
BYR	eP	13	54	59
	iS	14	00	23
SPA	eP	13	54	52
	ePP		55	38
	e(PPP)		56	06
	e		56	21
March 22				
BYR	iP	20	02	28
SPA	iP	20	02	10
	e		02	17
	epP		02	42
March 22				
BYR	e(P)	21	25	38
March 23				
BYR	eP'	00	42	33
	eSKP		45	13
SPA	eP'	00	42	44
March 23				
BYR	eP'	01	26	28
March 23				
BYR	iP	01	40	07
	ePP		41	22
March 23				
BYR	eP	01	44	43
March 23				
BYR	eP	01	46	13
March 23				
BYR	e(P')	02	10	51
March 23				
SPA	eP	04	01	41
March 23				
SPA	eP	09	44	05
March 23				
BYR	eP	09	49	23

Date and Station	Phase (GCT)	h	m	s
March 23				
BYR	eP	10	19	16
March 23				
BYR	e(P')	10	47	59
March 23				
BYR	e(P')	12	10	10
March 23				
BYR	e(P')	16	20	16
March 23				
BYR	e(P')	21	53	29
March 23				
BYR	eP'	22	41	47
March 24				
BYR	e(P')	03	16	18
March 24				
BYR	eP'	06	13	36
March 24				
BYR	e(P')	10	15	18
March 24				
BYR	e(P')	16	38	05
March 24				
BYR	iP	21	06	07
SPA	iP	21	06	11
	epP		06	51
March 25				
BYR	eP	02	39	03
	epP		40	30
March 25				
BYR	eP	07	59	43
March 25				
BYR	e(P)	15	30	12
March 26				
SPA	eP	05	25	24
March 26				
BYR	e(P)	08	57	13
March 26				
SPA	eP	15	31	50
March 26				
BYR	eP	15	33	23
March 26				
BYR	eP	15	51	57
	e		57	40
SPA	eP	15	50	34
March 26				
BYR	eP	16	04	16
March 26				
BYR	e(P)	18	41	48

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Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)
		h m s			h m s			h m s			h m s
March 26			SPA	e(P')	00 30 50	March 29					
BYR	eP	19 43 44		e	31 26	BYR	iP	08 18 26			
				e	32 05		e	18 41			
March 26							e	20 22			
BYR	eP	20 37 43	March 28				e	23 00			
			BYR	eP	06 47 36	SPA	eP	08 19 50			
March 27						March 29					
BYR	eP	04 00 06	SPA	eP	06 47 53	BYR	e(P)	14 36 46			
	eS	09 50		e	47 57						
				e	48 21	SPA	eP	14 37 01			
SPA	eP	04 00 20					e	37 18			
	e	00 29	March 28								
	e	00 38	BYR	e(P)	06 51 16	March 29					
	e	00 56				BYR	eP	15 42 58			
			March 28								
March 27			BYR	e(P)	06 54 24	March 29					
BYR	eP	09 09 35				BYR	e(P)	18 18 59			
	e(S)	19 41	SPA	eP	06 54 38						
				e	54 44	SPA	eP	18 19 33			
SPA	eP	09 09 49		e	54 58						
	e	10 00				March 29					
	e	10 07	March 28			BYR	eP	22 22 56			
	e	10 32	BYR	e(P)	07 57 47						
	e	15 08				SPA	eP	22 22 52			
			March 28				eS	23 03			
March 27			BYR	eP	08 07 37		e	15			
BYR	eP	09 49 15									
			March 28			March 30					
March 27			BYR	eP	09 57 51	BYR	e(P)	03 01 24			
BYR	e(P)	12 34 40									
			March 28			March 30					
March 27			SPA	iP	12 48 50	BYR	eP	09 49 27			
SPA	eP	13 28 29		e	49 06						
				ePcP	49 16	March 30					
March 27				e	49 54	BYR	eP	09 51 57			
BYR	eP	17 34 14									
			March 28			March 30					
SPA	eP	17 34 47	BYR	iP	13 03 17	BYR	eP	10 04 01			
	e	34 53									
	ePcP	35 34	March 28			March 30					
			BYR	eP'	21 08 22	BYR	eP	11 01 23			
March 27											
BYR	eP	19 47 03	March 29			March 30					
			BYR	eP	00 19 55	BYR	e(P)	14 25 00			
SPA	eP	19 47 16									
	e	23	SPA	iP	00 20 30	March 30					
				e	20 38	BYR	eP	15 30 07			
March 27				e	20 58						
BYR	iP	23 36 27				March 31					
	epP	37 20	March 29			BYR	eP'	00 58 03			
	ePP	38 31	BYR	eP	06 24 00						
				e	24 48	March 31					
SPA	iP	23 37 11		e	25 31	BYR	e(P')	03 21 21			
	e	37 33		e	27 18						
	e	37 45		e	28 36	March 31					
	e	37 55				BYR	e(P)	03 42 27			
	epP	38 10	SPA	eP	06 25 33						
	e(PcP)	38 31				March 31					
	e	39 11	March 29			BYR	eP	03 51 20			
	e(PP)	39 21	BYR	iP	06 42 14						
	eScP	41 50		ePP	44 42	March 31					
	eS	44 13				BYR	eP	04 26 29			
	e(sS)	46 27	SPA	eP	06 42 30						
				e	42 33	March 31					
March 28				e	43 22	BYR	eP	15 16 28			
BYR	eP	00 26 37		ePP	45 12						
	e(P')	31 05		eS	52 01	March 31					
						BYR	e(P)	18 20 30			
						March 31					
						BYR	e(P')	21 51 56			

International Seismological Centre

SEISMOLOGICAL BULLETIN

SOUTH POLE – BYRD SUPPLEMENT

APRIL-JUNE, 1960

MSI – 232A

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List of stations 1
Seismogram interpretations 2

U. S. DEPARTMENT OF COMMERCE

Luther H. Hodges, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

FOR OFFICIAL DISTRIBUTION

International Seismological Centre

SEISMOLOGICAL BULLETIN

SOUTH POLE-BYRD SUPPLEMENT

APRIL-JUNE, 1960

The instrumental results tabulated in this supplement are from the following seismographic stations.

Station	Latitude	Longitude	Foundation	Elevation	Instruments	Components	T_o (Sec.)	T_g (Sec.)	Time Scale
South Pole (SPA) In Charge: W.S. Jacobs	90°S.	0°	1995 meters of ice.	2800 meters.	Benioff Paper. Wilson-Lamison (120°E.-60°W.)	Z	1.6	0.5	60mm/min.
					Horizontal Film.		5.6	0.48	15mm/mim.
BYRD (BYR) In Charge: L.E. Davis	80°01'S.	119°31'W.	2570 meters of ice.	1515 meters.	Benioff.	Z	1.2	0.5	60mm/min.
					Wilson-Lamison with O.E. Galvo.	N	6.2	3.5	30mm/min.
					Wilson-Lamison with O.E. Galvo.	E	7.2	3.5	30mm/min.

These stations were first established by the Coast and Geodstic Survey for the IGY to provide additional control for locati teleseismic epicenters in regions inadequately covered by previously existing stations and to provide data for studies in regional seismicity, crustal structure and other pertinent earth science problems.

International Seismological Centre

Date and Station	Phase (GCT)	h m s
Apr. 1		
BYR	iP	03 04 36
	e	14 02
Apr. 1		
BYR	eP	05 27 54
Apr. 1		
BYR	e(P)	06 49 27
Apr. 1		
BYR	e(P)	11 35 09
Apr. 1		
BYR	iP	13 29 24
Apr. 1		
BYR	eP	23 12 39
Apr. 2		
BYR	eP	11 20 23
Apr. 2		
BYR	eP	12 00 38
Apr. 2		
BYR	eP	14 27 15
Apr. 2		
BYR	eP	14 57 41
Apr. 2		
BYR	eP	15 13 03
Apr. 2		
BYR	eP	17 29 36
Apr. 2		
BYR	eP	23 15 29
Apr. 2		
BYR	e(P)	23 37 47
Apr. 3		
BYR	iP'	05 28 23
Apr. 3		
BYR	e(P)	06 00 36
Apr. 3		
BYR	e(P')	07 39 08
Apr. 3		
BYR	e(P)	09 45 53
Apr. 3		
BYR	eP	10 04 41
Apr. 3		
BYR	eP	11 21 04
SPA	e	11 23 08
	e	23 28
Apr. 3		
BYR	eP	17 13 21
Apr. 3		
BYR	eP	19 02 36

Date and Station	Phase (GCT)	h m s
Apr. 4		
BYR	eP	02 10 31
Apr. 4		
BYR	e(P)	04 51 15
Apr. 4		
BYR	iP	08 08 08
SPA	eP	08 08 17
	epP	08 43
	esP	08 54
Apr. 4		
BYR	e(P)	10 33 14
Apr. 4		
BYR	eP	12 57 59
SPA	eP	12 58 13
Apr. 4		
BYR	e(P)	15 19 53
Apr. 4		
BYR	e(P)	17 11 46
Apr. 4		
BYR	e(P)	17 30 07
Apr. 4		
BYR	eP'	23 42 05
Apr. 5		
BYR	eP	05 23 41
Apr. 5		
BYR	eP	07 24 10
Apr. 5		
BYR	iP	12 42 42
Apr. 5		
BYR	eP	13 10 01
Apr. 5		
BYR	e(P)	19 47 41
Apr. 5		
BYR	eP	20 51 01
Apr. 6		
BYR	iP	02 15 44
Apr. 6		
BYR	e(P)	02 44 39
SPA	eP	02 46 22
	e	46 42
	e	46 51
	e	47 08
Apr. 6		
BYR	eP	07 06 49
Apr. 6		
BYR	e(P)	09 23 12
Apr. 6		
BYR	e(P)	09 43 53

Date and Station	Phase (GCT)	h m s
Apr. 6		
BYR	eP	13 01 31
Apr. 7		
BYR	e(P)	03 08 00
Apr. 7		
BYR	eP	03 15 17
Apr. 7		
BYR	eP	03 47 05
Apr. 7		
BYR	e(P)	05 18 51
Apr. 7		
BYR	eP	06 15 39
Apr. 7		
BYR	e(P)	09 43 24
Apr. 7		
BYR	eP	13 56 57
	eP'P'	14 25 45
SPA	eP	13 57 27
	ePcP	57 55
	epP	59 13
	e	59 34
	e	14 00 28
	eS	05 35
	eP'P'	26 00
Apr. 8		
BYR	iP	00 06 08
	e(S)	13 45
	eP'P'	34 49
SPA	iP	00 06 41
	i	06 55
	ePcP	07 10
	e	08 07
	eP'P'	34 44
Apr. 8		
SPA	eP	01 41 37
Apr. 8		
SPA	eP	04 53 29
Apr. 8		
BYR	e(P)	04 56 43
Apr. 8		
BYR	iP	08 48 14
SPA	eP	08 48 09
	e	48 15
	e	48 52
Apr. 8		
BYR	e(P)	11 20 57
Apr. 8		
BYR	e(P)	13 52 19
Apr. 8		
BYR	eP	18 05 00
	e	06 26

Date and Station	Phase (GCT)	h m s
SPA	eP	18 05 30
	e	06 55
Apr. 8		
BYR	e(P)	20 48 59
Apr. 9		
BYR	eP	07 45 00
SPA	eP	07 45 34
	e	46 08
Apr. 9		
SPA	eP	12 00 42
Apr. 9		
BYR	eP	13 44 08
SPA	eP	13 43 55
	e	44 12
Apr. 9		
BYR	e(P)	14 11 03
Apr. 9		
BYR	eP	16 21 16
SPA	eP	16 21 36
	e	21 47
Apr. 9		
BYR	e(P)	16 52 51
Apr. 9		
BYR	eP	18 50 17
SPA	eP	18 49 53
	e	49 59
	e	51 19
	e	51 25
Apr. 9		
BYR	iP	19 36 02
SPA	iP	19 35 18
	e	35 25
	e	36 07
Apr. 9		
SPA	eP	23 44 09
Apr. 10		
BYR	eP	00 24 08
Apr. 10		
BYR	eP'	05 09 46
Apr. 10		
SPA	eP	05 47 10
Apr. 10		
SPA	eP	06 20 38
Apr. 10		
BYR	eP	08 06 53

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Date and Station	Phase (GCT)	h m s
SPA	eP	08 06 17
	e	06 29
	e	06 40
Apr. 10		
BYR	iP	09 01 30
SPA	eP	09 02 01
	e	02 20
	ePcP	02 50
Apr. 10		
BYR	eP	10 46 06
SPA	eP	10 46 28
	e	47 54
Apr. 10		
SPA	eP	11 58 29
Apr. 10		
BYR	eP'	13 26 17
Apr. 10		
BYR	e(P)	20 11 20
Apr. 10		
BYR	eP'	20 44 55
	e	49 01
SPA	eP	20 45 16
	e	45 42
	e	46 07
	e	46 37
Apr. 10		
SPA	eP	22 14 37
Apr. 10		
SPA	eP'	22 24 34
Apr. 10		
BYR	eP	22 56 45
Apr. 11		
BYR	e(P)	00 19 56
Apr. 11		
BYR	eP	01 55 58
Apr. 11		
BYR	eP	08 16 57
SPA	eP	08 16 33
	e	16 38
	e	17 58
	e	31 58
Apr. 11		
BYR	e(P)	08 32 22
Apr. 11		
BYR	e(P)	16 11 44
SPA	eP	16 12 00
	e	12 11
	ePcP	12 16

Date and Station	Phase (GCT)	h m s
Apr. 11		
BYR	e(P)	16 40 49
Apr. 11		
BYR	eP	17 22 07
Apr. 12		
SPA	eP	06 22 15
Apr. 12		
BYR	eP	09 19 50
SPA	iP	09 19 26
	e	19 48
	e	20 52
Apr. 12		
BYR	eP	10 06 28
Apr. 12		
SPA	eP	10 16 15
	e	16 27
Apr. 12		
BYR	eP	11 45 01
SPA	eP	11 45 03
	e	45 09
	e	45 19
Apr. 12		
BYR	eP	13 33 37
Apr. 12		
SPA	eP	15 29 03
Apr. 12		
BYR	eP	17 17 56
Apr. 12		
BYR	e(P)	19 56 07
Apr. 12		
BYR	eP'	21 00 42
Apr. 12		
BYR	eP	21 58 51
SPA	eP	21 58 51
	e	58 58
Apr. 12		
BYR	eP	23 14 03
SPA	eP	23 15 18
Apr. 13		
BYR	iP	00 22 04
Apr. 13		
BYR	eP	01 13 14
Apr. 13		
BYR	eP'	05 09 50
SPA	eP'	05 09 56
	e	10 09
	e	10 16

Date and Station	Phase (GCT)	h m s
Apr. 13		
SPA	eP	08 23 53
Apr. 13		
SPA	eP	11 05 35
Apr. 13		
SPA	eP	12 05 53
Apr. 13		
SPA	eP'	13 33 42
Apr. 13		
BYR	eP	14 05 13
SPA	iP	14 05 42
	ePcP	06 03
	e	06 19
Apr. 13		
BYR	e(P)	14 57 29
SPA	eP	14 56 20
Apr. 13		
SPA	e(P)	19 06 04
	e	06 14
Apr. 13		
SPA	eP	22 18 17
Apr. 14		
BYR	eP	00 48 21
Apr. 14		
BYR	eP	06 37 19
Apr. 14		
BYR	e(P)	17 58 31
Apr. 14		
BYR	eP	19 19 20
Apr. 14		
BYR	e(P)	20 46 59
Apr. 14		
BYR	eP	21 00 41
Apr. 14		
BYR	eP	21 30 47
Apr. 15		
BYR	eP	03 35 01
SPA	eP	03 36 09
	e	36 14
	e	36 40
	e	40 33
Apr. 15		
SPA	eP	04 01 30
	e	05 16
Apr. 15		
BYR	eP	04 25 03
SPA	eP	04 25 14
	e	25 21
	e	25 58

Date and Station	Phase (GCT)	h m s
Apr. 15		
BYR	eP	08 16 18
Apr. 15		
BYR	eP	08 42 59
SPA	eP	08 43 34
	ePcP	44 14
Apr. 15		
BYR	eP	09 34 10
Apr. 15		
BYR	eP'	11 57 47
SPA	eP'	11 57 42
	i	58 01
	e(PP)	12 00 17
	e(SKP)	01 17
	e(PKS)	01 37
Apr. 15		
BYR	e(P)	12 10 03
Apr. 15		
SPA	eP	13 38 17
Apr. 15		
SPA	eP	22 09 44
Apr. 15		
BYR	eP	22 15 38
SPA	eP	22 15 51
Apr. 15		
BYR	eP	22 16 46
SPA	iP	22 16 59
	e	17 04
	e	17 20
	e	17 34
	e	18 58
	e(PP)	19 41
Apr. 15		
SPA	iP	22 25 00
	e	26 04
Apr. 15		
SPA	eP	22 59 04
Apr. 16		
BYR	e(P)	12 37 46
Apr. 16		
BYR	iP	19 33 09
Apr. 16		
BYR	eP	20 12 02
Apr. 17		
SPA	eP	04 50 07
Apr. 17		
SPA	eP	05 42 27
Apr. 17		
SPA	eP	08 01 15.

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Date and Station	Phase (GCT)			Date and Station	Phase (GCT)			Date and Station	Phase (GCT)			Date and Station	Phase (GCT)		
Apr. 17	h	m	s	Apr. 19	h	m	s	Apr. 21	h	m	s	Apr. 23	h	m	s
SPA eP	15	51	12	BYR eP'	19	45	21	BYR eP	02	28	31	BYR eP'	06	45	29
Apr. 17				SPA eP'	19	45	36	SPA eP	02	29	21	SPA eP'	06	45	08
SPA eP	21	59	51					e		29	40				
epP	22	01	50	Apr. 19				e		29	56	Apr. 23			
				BYR e(P)	20	17	50	e		30	08	SPA eP	11	20	48
Apr. 17				SPA eP	20	18	06								
SPA eP	22	34	32	Apr. 19				Apr. 21				Apr. 23			
				SPA eP'	20	52	11	SPA eP	07	36	51	BYR iP	12	19	38
Apr. 18				Apr. 19											
SPA eP	04	47	38	BYR eP	22	28	21	Apr. 21				SPA eP	12	20	12
e		47	47					SPA eP	08	04	29				
				SPA eP	22	28	33					Apr. 23			
Apr. 18				e		28	44	Apr. 21				BYR eP	13	19	31
BYR eP'	08	25	11					SPA eP	14	57	14				
e		26	15	Apr. 19								Apr. 23			
e(SKP)		28	04	BYR eP	22	56	19	Apr. 21				BYR iP	18	10	47
e(PKKP)		35	24					SPA eP	15	40	34				
				SPA eP	22	56	28					SPA iP	18	10	50
SPA eP'	08	25	07	e		56	35	Apr. 21				e		11	21
e		28	00					SPA eP	15	42	37				
				Apr. 29								Apr. 23			
Apr. 18				SPA eP	08	06	37	Apr. 21				BYR eP	21	05	51
BYR eP	09	13	01					SPA eP	15	46	05				
				Apr. 20								Apr. 23			
SPA eP	09	13	03	BYR iP	08	17	55	Apr. 21				BYR e(P)	21	36	11
e		13	29					BYR eP	16	32	36				
				SPA eP	08	18	12					Apr. 23			
Apr. 18								SPA eP	16	33	11	BYR eP	22	10	05
SPA eP	13	14	03	Apr. 20				e		33	19				
e		14	10	BYR eP	15	13	16	e		33	34	SPA eP	22	11	01
e		14	29	e		16	46								
e		15	50					Apr. 21				Apr. 23			
				SPA eP	15	14	12	SPA eP	22	43	40	SPA eP	22	25	25
Apr. 18				e		17	22								
SPA eP	15	08	57	e		17	36	Apr. 22				Apr. 23			
								BYR e(P)	03	14	39	SPA eP	23	00	06
Apr. 18				Apr. 20											
BYR eP	17	06	15	BYR iP	15	37	23	Apr. 22				Apr. 23			
				epP		39	16	SPA eP	13	40	35	BYR eP	23	15	44
SPA eP	17	06	33	e		41	08								
								Apr. 22				Apr. 24			
Apr. 18				SPA iP	15	37	56	SPA eP	15	08	24	BYR eP'	00	17	44
BYR e(P)	23	50	01	ePcP		38	18	i		08	33				
				epP		39	51	ePcP		09	15	SPA eP'	00	17	56
Apr. 19				ePP		40	25								
SPA eP	00	19	20					Apr. 22				Apr. 24			
				A 20				SPA eP	16	27	50	BYR iP	03	34	24
Apr. 19				B\ eP	16	06	34					ipP		36	38
BYR eP'	01	32	48					Apr. 22				i(SKS)		43	41
				r. 20				BYR iP	20	37	06				
Apr. 19				BYR eP	16	52	34	epP		37	54	SPA iP	03	33	56
BYR eP	09	33	12					e		41	16	epP		35	59
				SPA eP	16	53	09	e(S)		45	49	esP		37	16
SPA eP	09	33	48	e		53	27	eP'P'	21	05	24	e		40	18
e		34	10	e		53	46					e		40	53
e		34	35					SPA eP	20	37	39	e		41	02
				Apr. 20				e		37	50	e		42	07
Apr. 19				BYR eP'	19	42	09	e		37	56	e		42	29
BYR eP	14	59	36					ePcP		38	13	e(SKS)		43	18
				SPA eP'	19	41	47	epP		38	28	e		45	28
SPA eP	15	00	54	e		41	52	e		46	47	eP'P'	04	02	39
e		01	13												
				Apr. 20				Apr. 23				Apr. 23			
Apr. 19				BYR eP	21	49	41	BYR eP	00	15	50	SPA eP	04	20	21
BYR eP	15	17	10												
				SPA eP	21	49	31	Apr. 23				Apr. 24			
				e		49	38	BYR eP	01	50	23	BYR iP'	12	33	36
				e		49	48								
				e		49	53								
				e		50	05								

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Date and Station	Phase (GCT)	h	m	s
SPA	eP'	12	33	16
	ePP		34	26
	ePKKP		43	40
Apr. 23				
BYR	iP	14	59	53
Apr. 24				
SPA	iP	15	00	38
Apr. 23				
BYR	eP	18	13	47
Apr. 24				
SPA	eP	18	14	21
Apr. 24				
SPA	eP	22	25	20
Apr. 25				
BYR	eP'	00	33	32
Apr. 25				
BYR	e(P)	01	33	23
Apr. 25				
BYR	e(P')	04	22	51
Apr. 25				
SPA	eP	05	22	55
Apr. 25				
SPA	eP	05	24	20
Apr. 25				
BYR	eP	06	19	13
Apr. 25				
SPA	eP	10	58	30
Apr. 25				
SPA	eP	13	38	35
	e		38	53
Apr. 25				
BYR	e(P)	14	05	25
Apr. 25				
SPA	eP	14	58	30
Apr. 25				
SPA	iP'	15	13	33
Apr. 25				
BYR	eP	17	22	49
Apr. 25				
SPA	eP	17	42	50
Apr. 25				
BYR	e(P)	18	43	07
Apr. 25				
BYR	eP	20	06	27
Apr. 25				
SPA	eP	22	23	46

Date and Station	Phase (GCT)	h	m	s
Apr. 25				
SPA	eP	23	37	08
Apr. 26				
BYR	eP	01	13	11
Apr. 26				
BYR	eP	05	27	31
Apr. 26				
BYR	eP	06	46	39
SPA	eP	06	47	13
Apr. 26				
BYR	eP'	07	11	06
SPA	eP'	07	10	58
Apr. 26				
BYR	e(P)	07	44	52
Apr. 26				
BYR	eP	08	50	36
Apr. 26				
SPA	eP	14	10	02
Apr. 26				
BYR	eP	17	38	12
SPA	eP	17	38	01
Apr. 26				
BYR	e(P)	18	19	39
SPA	eP	18	19	49
Apr. 26				
BYR	e(P')	21	46	38
Apr. 27				
SPA	eP	00	39	54
Apr. 27				
BYR	eP	11	17	59
SPA	eP	11	18	07
	e		18	16
	e		19	09
Apr. 27				
BYR	eP	11	55	40
Apr. 27				
BYR	e(P)	17	24	30
	e		28	30
SPA	eP	17	24	20
Apr. 27				
SPA	eP	20	23	08
Apr. 27				
BYR	eP	21	33	44
Apr. 27				
BYR	eP'	23	02	33

Date and Station	Phase (GCT)	h	m	s
Apr. 28				
BYR	eP'	01	08	39
	e		12	02
SPA	eP'	01	08	48
	e		09	27
	e		12	22
Apr. 28				
BYR	eP	02	16	46
	eL		23	13
SPA	eP	02	16	28
	e		16	39
	e		17	17
	e(PP)		17	53
	e		18	18
	eL		23	05
Apr. 28				
BYR	eP	02	45	05
SPA	eP	02	44	46
	e		45	30
Apr. 28				
BYR	eP	05	21	00
SPA	eP	05	20	52
	e		20	57
Apr. 28				
SPA	eP	05	59	39
Apr. 28				
BYR	eP	06	15	40
Apr. 28				
SPA	eP	08	25	32
Apr. 28				
BYR	e(P)	09	47	06
Apr. 28				
BYR	e(P)	11	06	41
SPA	eP	11	07	11
Apr. 28				
SPA	eP	11	29	30
Apr. 28				
BYR	eP	14	23	09
Apr. 28				
BYR	e(P)	16	00	46
Apr. 28				
SPA	eP'	16	52	20
Apr. 28				
SPA	eP	17	20	31
Apr. 28				
BYR	eP	19	36	11
Apr. 28				
BYR	e(P)	23	10	07

Date and Station	Phase (GCT)	h	m	s
Apr. 29				
BYR	iP	02	22	46
	eS		28	34
SPA	eS	02	28	27
Apr. 29				
BYR	iP	03	50	09
Apr. 29				
BYR	iP	05	52	10
	eS		58	08
SPA	eS	05	58	03
Apr. 29				
BYR	eP	09	03	38
Apr. 29				
SPA	eP	09	29	11
	e		29	19
	ePP		32	31
Apr. 29				
BYR	eP	10	06	53
Apr. 29				
SPA	eP	10	15	13
Apr. 29				
BYR	eP	10	19	39
SPA	eP	10	19	18
	e		19	26
Apr. 29				
SPA	eP	11	43	56
Apr. 29				
BYR	eP	11	50	35
Apr. 29				
SPA	eP	12	31	53
Apr. 29				
BYR	eP	12	59	42
SPA	eP	13	00	23
Apr. 29				
BYR	iP	13	46	43
SPA	eP	13	46	20
	e		46	34
Apr. 29				
BYR	iP	13	47	57
SPA	eP	13	48	32
Apr. 29				
BYR	eP	14	55	44
SPA	iP	14	56	12
	e		56	25
	e		57	35

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Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)
		h m s			h m s			h m s			h m s
Apr. 29			Apr. 30			May 1					
SPA	eP	14 59 38	SPA	eP	08 56 51	BYR	e(P)	04 25 40	SPA	eP	08 45 45
Apr. 29			Apr. 30							e	45 51
BYR	eP	15 47 42	BYR	eP	10 24 56	SPA	eP	04 24 50		e	53 57
							e	25 01			
SPA	eP	15 47 43	SPA	eP	10 24 26				May 2		
						May 1			BYR	eP	08 55 36
Apr. 29			Apr. 30			BYR	eP	05 43 04		ePP	59 06
SPA	eP	17 39 33	BYR	eP	11 11 10						
						SPA	eP	05 42 49	SPA	eP	08 55 20
Apr. 29			SPA	eP	11 11 45					e	55 27
BYR	e(P)	19 09 13		e	11 50	May 1					
				e	12 00	BYR	e(P)	11 08 19	May 2		
SPA	eP	19 08 46							BYR	eP	12 04 59
	e	08 56	Apr. 30			May 1					
			BYR	e(P)	13 24 43	BYR	iP	12 17 10	SPA	eP	12 04 35
Apr. 29										e	04 44
BYR	eP	19 26 24	SPA	eP	13 24 39	May 1				e	04 53
						SPA	eP	13 22 05			
SPA	eP	19 26 27	Apr. 30						May 2		
			BYR	eP	14 29 16	May 1			BYR	eP	12 23 37
Apr. 29						BYR	eP	18 01 05		e	27 27
BYR	iP	19 45 39	SPA	eP	14 29 19					ePKKP	39 54
				e	29 26	SPA	eP	18 00 54			
SPA	eP	19 45 15		e	29 45				SPA	eP	12 23 14
	e	46 28		ePP	32 44	May 1				e	23 26
	e	47 02				BYR	eP	18 15 21		e	24 04
	e(S)	55 57	Apr. 30							e	24 48
			SPA	eP	14 42 39	SPA	eP	18 15 06		ePP	27 04
Apr. 29							e	15 11		e(SKP)	27 19
BYR	eP	20 57 52	Apr. 30							e(SKS)	33 34
			BYR	eP	14 49 20	May 1				eS	33 57
SPA	eP	20 57 29				SPA	eP	18 55 05			
	e	57 54	SPA	eP	14 48 13				May 2		
	e	58 25				May 2			BYR	eP	18 01 32
			Apr. 30			BYR	eP	01 04 31			
Apr. 29			BYR	eP	15 22 35				May 2		
BYR	eP	21 56 55				May 2			BYR	eP	20 41 16
			SPA	eP	15 23 05	BYR	e(PP)	01 22 44			
SPA	eP	21 57 07		e	23 08				May 3		
				e	23 30	SPA	eP'	01 19 28	SPA	eP	06 04 54
Apr. 29										e	05 32
BYR	e(P)	22 11 45	Apr. 30			May 2				e	16 46
			BYR	e(P)	16 14 45	BYR	e(P)	02 51 12			
Apr. 30									May 3		
BYR	e(P)	00 04 21	Apr. 30			May 2			BYR	iP	08 06 12
			BYR	iP	22 21 59	BYR	eP	04 26 15			
SPA	eP	00 04 37							SPA	eP	08 06 42
	e	04 41	SPA	iP	22 21 37	SPA	eP	04 26 51		e	07 06
				e	21 53		e	27 00			
Apr. 30				e	22 05		e	27 14	May 3		
BYR	e(P)	00 33 36		eS	30 58				BYR	eP'	08 14 16
				e	31 45	May 2					
SPA	eP	00 33 12				BYR	eP	04 45 51	May 3		
	e	33 33	Apr. 30						BYR	eP	08 17 29
			SPA	eP	22 50 13-	SPA	eP	04 45 18			
Apr. 30							e	49 07	SPA	iP	08 17 59
BYR	eP	04 15 01	Apr. 30							e	19 45
	ePKKP	31 54	SPA	eP	23 09 16	May 2					
						SPA	eP	05 24 48	May 3		
SPA	eP	04 14 35	Apr. 30				e	24 56	SPA	eP	12 40 46
	e	14 52	SPA	eP	23 22 14						
	e	16 11				May 2			May 3		
	e(S)	25 07	May 1			BYR	eP	06 38 03	BYR	eP	13 35 33
			BYR	e(P)	03 00 10						
Apr. 30						May 2					
SPA	eP	08 54 05	May 1			BYR	eP	08 46 00			
			SPA	eP'	03 14 33						

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Date and Station	Phase (GCT)	h m s
SPA	eP	13 35 09
	e	35 21
	e	35 47
May 3		
SPA	eP	18 02 04
May 3		
SPA	eP	20 41 47
May 3		
BYR	iP'	22 41 26
SPA	eP'	22 41 23
	e	41 50
	ePP	43 01
May 3		
SPA	eP	23 59 20
May 4		
BYR	iP	00 07 29
SPA	eP	00 07 59
	e	08 06
	e	08 18
	eS	16 25
May 4		
SPA	eP	00 40 14
	e	40 41
May 4		
BYR	eP	01 39 25
	i	39 33
May 4		
SPA	eP	04 51 07
May 4		
SPA	eP	07 45 05
	e	45 34
May 4		
SPA	eP	14 21 02
May 4		
SPA	eP	17 28 46
May 4		
SPA	eP	18 39 39
	e	39 52
May 4		
BYR	eP	18 40 30
SPA	eP	18 40 54
May 4		
BYR	eP	22 12 22
SPA	eP	22 12 22
	e	12 50
May 5		
BYR	e(P)	04 27 53
May 5		
BYR	eP	04 50 16

Date and Station	Phase (GCT)	h m s
May 5		
BYR	eP'	11 45 20
SPA	eP'	11 45 24
	e	45 33
	e	46 05
	e	46 37
	e	55 59
	e	57 51
May 5		
SPA	eP	12 32 53
	i	32 54
May 5		
BYR	iP	16 03 58
	iPP	05 14
SPA	iP	16 03 40
	e	03 50
	e	04 02
	e	04 13
	ePP	04 45
	e	04 59
	e	05 15
	eL	09 55
May 5		
BYR	e(P')	17 32 51
May 5		
BYR	iP	21 23 27
May 5		
SPA	eP	22 27 39
May 5		
BYR	eP	23 34 15
May 6		
BYR	iP	06 29 47
	e	30 11
	e	30 17
	e(PcP)	30 22
	e	31 23
SPA	eP	06 30 26
	e	30 50
	ePcP	31 16
May 6		
SPA	eP	13 52 50
	e	56 55
	e	58 21
May 6		
BYR	eP	19 05 40
	e(pP)	05 58
SPA	eP	19 06 18
	e	06 26
	e	06 58
	e	07 03
	e	07 46
	e	08 14
May 7		
BYR	iP	01 50 11
SPA	eP	01 49 56

Date and Station	Phase (GCT)	h m s
May 7		
SPA	eP	07 30 35
May 7		
BYR	eP	07 56 07
SPA	eP	07 56 36
May 7		
SPA	eP	09 27 02
May 7		
SPA	eP	09 56 52
May 7		
SPA	eP	11 14 43
May 7		
SPA	eP	12 04 44
	e	04 49
May 7		
SPA	eP	19 14 13
	e	14 28
May 7		
SPA	eP	23 23 11
	e	23 30
	e	23 45
May 8		
SPA	eP	03 09 28
	e	09 39
May 8		
SPA	eP	03 14 22
May 8		
BYR	eP	03 34 20
SPA	eP	03 35 16
	e	35 24
	e	35 46
May 8		
BYR	eP	04 29 39
May 8		
BYR	eP	05 21 07
SPA	eP	05 21 38
	e	21 40
	e	21 54
May 8		
BYR	iP	05 39 05
SPA	eP	05 39 39
	e	39 44
	e	39 48
	ePcP	40 26
	e	41 33
	e	42 41
May 8		
BYR	eP	14 17 46
SPA	eP	14 19 08

Date and Station	Phase (GCT)	h m s
May 8		
BYR	e(P')	14 48 31
	e(SKP)	51 58
SPA	eP'	14 48 25
	e	48 33
	e	48 36
	e	52 15
	e	52 41
May 8		
BYR	eP	21 06 35
SPA	eP	21 07 06
	e	07 20
May 8		
SPA	eP	22 22 50
May 9		
SPA	eP	00 05 41
May 9		
BYR	eP'	00 30 04
SPA	eP'	00 29 57
	e	52 09
	e	52 19
May 9		
BYR	eP	00 39 58
May 9		
SPA	eP	01 05 04
	e	05 17
May 9		
BYR	e(P)	02 59 58
SPA	eP	02 59 36
	e	59 48
	e	59 59
May 9		
BYR	e(P)	03 37 28
May 9		
BYR	eP	03 51 42
SPA	eP	03 52 05
	e	52 12
	e	52 16
May 9		
BYR	eP	09 11 50
SPA	eP	09 11 53
	e	12 00
May 9		
BYR	e(P)	10 06 15
SPA	eP	10 06 29
	e	06 49
May 9		
SPA	eP	16 40 56

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Date and Station	Phase (GCT)	h m s
May 9		
SPA	eP	17 12 34
May 9		
SPA	eP	19 11 20
May 9		
BYR	eP	20 25 12
SPA	eP	20 26 05
	e	26 09
May 9		
BYR	eP	21 31 05
SPA	eP	21 30 48
May 9		
SPA	eP	22 08 35
May 9		
BYR	eP	23 04 45
SPA	eP	23 05 23
May 10		
SPA	eP	03 39 23
May 10		
BYR	eP	09 42 35
SPA	eP	09 43 22
	e	43 42
May 10		
BYR	iP	10 28 47
SPA	eP	10 29 23
	e	29 40
May 10		
BYR	iP	11 03 07
	e(S)	09 09
SPA	iP	11 02 52
	e	03 06
	e	03 31
	e	03 44
	e(S)	09 03
	eL	09 31
May 10		
BYR	e(P)	14 50 56
May 10		
BYR	e(P')	17 55 32
May 10		
BYR	eP'	23 36 53
SPA	eP'	23 36 46
	e	36 56
	ePP'	38 30
May 11		
BYR	eP	02 25 28
SPA	eP	02 26 07

Date and Station	Phase (GCT)	h m s
May 11		
SPA	eP	03 53 02
May 11		
BYR	eP	04 11 22
May 11		
SPA	eP	05 50 16
May 11		
SPA	eP	12 34 13
May 11		
BYR	eP	17 05 36
May 11		
BYR	e(P)	18 32 21
May 11		
BYR	eP	18 49 03
	ePP	52 35
SPA	eP	18 48 46
	e	48 56
	e	49 05
	e	49 33
May 11		
BYR	e(P')	20 31 48
SPA	eP'	20 31 54
	e	31 59
	e	32 05
	e	32 10
May 12		
SPA	eP	04 28 52
May 12		
SPA	eP	05 37 38
May 12		
BYR	iP	06 35 16
	epP	35 47
SPA	eP	06 34 40
	e	34 50
	epP	35 11
	ePP	37 59
May 12		
BYR	eP	12 20 45
May 12		
SPA	eP	13 15 47
May 12		
SPA	eP	14 23 44
May 12		
SPA	eP	17 14 35
May 12		
BYR	eP	19 25 12
SPA	eP	19 24 54
May 12		
SPA	eP	22 07 30

Date and Station	Phase (GCT)	h m s
May 12		
BYR	eP	22 12 30
SPA	eP	22 13 01
May 12		
SPA	eP	22 31 26
May 12		
BYR	eP	22 45 32
	e	49 20
	e	49 36
SPA	eP	22 46 09
	e	46 20
	e	50 10
May 12		
BYR	eP	23 13 37
SPA	eP	23 14 11
	e	14 34
May 13		
BYR	e(P)	00 43 35
May 13		
BYR	eP	00 46 27
May 13		
BYR	eP	01 43 47
SPA	eP	01 44 03
May 13		
SPA	eP	02 08 42
May 13		
BYR	e(P)	02 33 18
May 13		
BYR	eP	07 52 24
	e	55 37
SPA	eP	07 53 46
	e	54 00
May 13		
BYR	eP	16 12 34
May 13		
BYR	eP'	16 26 26
	e	26 35
	ePP	29 26
SPA	eP'	16 26 47
	e	26 58
	e	27 31
	e	28 19
	e(SKP)	30 40
	e	37 55
May 13		
BYR	eP	19 06 27
SPA	eP	19 06 17
	e	06 28
May 13		
BYR	eP	20 27 45

Date and Station	Phase (GCT)	h m s
SPA	eP	20 28 17
	e	28 25
May 13		
BYR	eP	20 55 56
	e	59 15
SPA	eP	20 56 28
	e	56 36
	ePcP	57 37
	e	59 48
May 13		
BYR	e(P)	21 00 50
SPA	eP	21 01 22
	e	01 27
	e	01 37
May 13		
BYR	eP	21 07 46
May 13		
BYR	eP	23 07 08
May 14		
SPA	eP	00 48 55
May 14		
BYR	eP	03 36 36
SPA	eP	03 37 15
	e	37 44
	e	37 56
May 14		
SPA	eP	06 06 05
	e	06 14
May 14		
BYR	eP	08 28 37
May 14		
BYR	eP	10 48 23
May 14		
BYR	iP	16 43 02
May 14		
BYR	eP'	18 02 30
May 14		
BYR	e(P)	19 20 33
May 14		
BYR	e(P)	20 03 17
SPA	eP	20 03 40
	e	03 46
May 14		
BYR	e(P)	20 17 31
May 14		
BYR	eP'	22 39 14
	e(SKP)	42 54

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Date and Station	Phase (GCT)	h	m	s
SPA	eP'	22	39	22
	e		39	25
	e		39	37
	e(SKP)		43	01
May 14				
BYR	e(P)	22	50	45
May 15				
BYR	e(P)	03	10	47
SPA	eP	03	10	36
	e		10	43
May 15				
BYR	iP	04	14	56
May 15				
BYR	eP	06	33	39
SPA	eP	06	33	19
	e		33	26
May 15				
BYR	eP	18	26	01
May 15				
BYR	eP	20	49	54
	e		50	16
May 15				
BYR	eP'	21	56	28
SPA	eP'	21	56	41
	e		56	56
	e		57	06
May 15				
SPA	eP	22	29	31
May 16				
BYR	iP	04	23	51
May 16				
BYR	eP	06	45	46
May 17				
SPA	eP	01	23	12
May 17				
SPA	eP	03	55	27
May 17				
SPA	eP	06	23	55
	e		24	52
	e		25	02
May 17				
BYR	eP	09	40	45
May 17				
BYR	eP	15	53	41
	e(PcP)		54	12
SPA	eP	15	54	29
	e		55	34
May 17				
SPA	eP	21	23	07
	e		23	17

Date and Station	Phase (GCT)	h	m	s
May 18				
SPA	eP	00	31	44
	e		31	48
	e		32	08
May 18				
SPA	eP	00	43	35
May 18				
BYR	e(P)	06	36	25
May 18				
BYR	e(P)	06	41	19
May 18				
BYR	eP'	06	53	57
	e		55	48
	ePKKP	07	03	55
	eSKKP		07	42
	e(P'P')		13	56
SPA	eP'	06	53	50
	e		53	53
	e		53	57
	epP'		54	16
	ePP		55	14
	ePKKP	07	04	08
	eSKKP		08	05
	eSS		11	29
	e(P'P')		14	08
May 18				
SPA	eP'	09	00	20
May 18				
BYR	eP	12	52	35
SPA	eP	12	52	42
	e		52	52
	e		52	56
	e		53	24
May 18				
SPA	e(P')	14	37	08
May 18				
BYR	e(P)	18	22	19
SPA	eP	18	21	50
	e		23	19
May 18				
BYR	e(P)	18	38	44
SPA	e(P)	18	39	34
May 18				
BYR	e(P)	18	45	49
SPA	eP	18	46	34
May 18				
BYR	eP	21	15	48
May 19				
BYR	e(P)	02	25	56
	e		29	25

Date and Station	Phase (GCT)	h	m	s
SPA	eP'	02	25	45
	e		26	02
	e		26	18
	epP'		26	33
	e		28	48
	e		28	52
	e		30	21
	e		34	42
May 19				
BYR	e(P)	10	05	30
SPA	eP	10	07	09
	e		07	21
May 19				
BYR	eP	10	24	15
SPA	eP	10	23	16
	e		23	31
	i		23	45
	e		24	14
	e		24	35
	e(PP)		26	34
	e(PPP)		27	37
	e		28	19
	e(S)		32	13
	e		34	16
May 19				
BYR	eP	22	24	33
SPA	eP	22	24	11
	e		24	39
May 20				
BYR	eP	00	09	04
SPA	eP	00	10	03
	e		10	15
May 20				
BYR	eP	00	36	18
	e		36	48
SPA	eP	00	36	11
	e		36	36
	ePP		39	33
May 20				
SPA	eP	00	56	06
May 20				
BYR	eP	01	55	05
May 20				
BYR	eP'	08	12	53
May 20				
BYR	eP	08	24	32
May 20				
BYR	iP	11	22	35
	e		24	18
	eS		30	58

Date and Station	Phase (GCT)	h	m	s
SPA	eP	11	22	53
	e(PcP)		23	57
	e		24	49
	e		26	16
	e(S)		31	34
	eP'P'		51	51
May 20				
BYR	eP	12	19	23
	e		19	29
SPA	eP	12	19	40
	e		19	45
May 20				
BYR	eP	17	52	27
SPA	eP	17	52	44
May 20				
BYR	e(P')	18	55	45
SPA	e(P')	18	55	10
	e		55	22
May 20				
BYR	eP	19	50	19
	e		50	31
SPA	eP	19	50	19
	e		50	31
	e		50	42
May 20				
BYR	eP	20	45	47
SPA	eP	20	45	40
	e		45	52
	e		45	57
	e		46	08
May 20				
BYR	e(P)	23	42	02
May 21				
BYR	eP	02	54	48
SPA	eP	02	55	32
	e		55	37
May 21				
BYR	eP	04	25	08
May 21				
BYR	iP	06	18	37
SPA	eP	06	19	08
	e		19	11
	e		19	19
May 21				
BYR	iP	08	17	42
SPA	eP	08	16	53
	e		17	10
May 21				
BYR	eP'	08	35	44

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Date and Station	Phase (GCT)	h	m	s
May 21				
BYR	e(P)	08	39	03
SPA	eP	08	39	37
	e		39	50
May 21				
BYR	eP	09	59	59
May 21				
BYR	iP	10	11	17
SPA	eP	10	12	06
	e		17	39
	eS		19	47
	e		21	32
	e(ScS)		21	56
	eL		32	18
	e		39	00
May 21				
BYR	eP	10	42	29
SPA	eP	10	42	49
May 21				
BYR	eP	11	02	17
May 21				
BYR	eP	11	10	19
May 21				
BYR	eP	11	12	56
May 21				
BYR	eP	11	19	15
May 21				
BYR	eP	11	23	04
May 21				
BYR	eP	11	23	36
May 21				
BYR	eP	11	26	11
SPA	eP	11	27	00
	e		37	55
May 21				
BYR	eP	11	30	29
May 21				
BYR	eP	11	36	05
May 21				
BYR	eP	11	38	43
May 21				
BYR	eP	11	40	04
May 21				
BYR	eP	11	43	32
May 21				
BYR	eP	11	48	21
May 21				
BYR	eP	11	50	03

Date and Station	Phase (GCT)	h	m	s
May 21				
BYR	iP	11	56	23
SPA	eP	11	57	11
	e		57	21
May 21				
BYR	eP	11	59	48
May 21				
BYR	eP	12	04	45
SPA	eP	12	05	33
May 21				
BYR	eP	12	14	39
May 21				
BYR	eP	12	15	02
May 21				
BYR	eP	12	25	34
May 21				
BYR	iP	12	29	48
	i		29	58
SPA	eP	12	30	36
	e		30	42
	e		30	54
	e		31	15
May 21				
BYR	eP	12	44	05
	e		44	33
May 21				
BYR	eP	12	50	44
May 21				
BYR	eP	12	52	05
May 21				
BYR	eP	12	55	14
May 21				
BYR	eP	13	01	03
May 21				
BYR	eP	13	04	39
May 21				
BYR	iP	13	08	27
	iS		15	16
SPA	eP	13	09	15
	e		09	25
	e		09	42
	e		10	01
	e		11	59
	eS		16	19
May 21				
BYR	eP	13	19	46
	ePP		21	39
	e		24	54
	eS		26	38

Date and Station	Phase (GCT)	h	m	s
SPA	eP	13	20	35
May 21				
BYR	eP	13	28	50
May 21				
BYR	eP	13	35	36
May 21				
BYR	eP	13	38	54
May 21				
BYR	eP	13	41	57
May 21				
BYR	eP'	13	45	10
May 21				
BYR	eP	13	57	11
May 21				
BYR	eP	14	06	54
May 21				
BYR	iP	14	07	44
	i		07	56
SPA	eP	14	08	33
	e		08	40
	e		08	54
May 21				
BYR	eP	14	13	10
May 21				
BYR	eP	14	15	56
May 21				
BYR	eP'	14	23	57
	e(SKP)		26	45
	e(PKKP)		33	54
May 21				
BYR	eP	14	35	17
May 21				
BYR	eP	14	40	26
SPA	eP	14	41	16
	e		41	24
	e		41	29
May 21				
BYR	eP	14	46	09
May 21				
BYR	eP	14	51	51
May 21				
BYR	eP	14	55	18
May 21				
BYR	eP	15	03	45
May 21				
BYR	eP	15	15	20

Date and Station	Phase (GCT)	h	m	s
May 21				
BYR	eP	15	17	17
	e		20	51
SPA	eP	15	18	06
	e		18	36
	e		18	59
May 21				
BYR	eP	15	26	33
SPA	eP	15	26	53
	e		27	01
	ePcP		27	24
	e		27	50
May 21				
BYR	eP	15	41	48
May 21				
BYR	eP	15	43	00
	e		44	08
SPA	eP	15	43	49
	e		44	03
May 21				
BYR	eP	15	46	27
May 21				
BYR	eP	15	59	42
May 21				
BYR	eP	16	17	45
SPA	eP	16	18	33
	e		18	40
May 21				
BYR	eP	16	35	07
May 21				
BYR	eP	16	45	18
May 21				
BYR	eP	16	50	57
May 21				
BYR	eP	17	01	03
SPA	eP	17	01	54
May 21				
BYR	eP	17	26	19
May 21				
BYR	eP	18	09	34
May 21				
BYR	eP	18	29	41
SPA	eP	18	30	31
	e		30	37
May 21				
BYR	eP	18	40	01
May 21				
BYR	eP	19	04	42

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Date and Station	Phase	h	m	s
May 21				
BYR	eP	19	13	06
May 21				
BYR	eP	19	14	50
SPA	eP	19	15	39
	e		15	51
	e		16	02
May 21				
BYR	eP	19	33	05
May 21				
BYR	eP	20	14	56
May 21				
BYR	eP	20	28	12
May 21				
BYR	eP	20	47	05
May 21				
BYR	eP	21	02	34
May 21				
BYR	eP	21	09	44
May 21				
BYR	eP	21	15	27
May 21				
BYR	eP	21	21	41
May 21				
BYR	eP	21	25	29
May 21				
BYR	eP	21	46	12
May 21				
BYR	eP	22	12	07
SPA	eP	22	12	56
	e		14	12
May 21				
BYR	eP	22	35	04
	i		35	12
SPA	eP	22	35	55
	e		36	02
	e		36	30
	ePP		37	50
May 21				
BYR	eP	23	02	08
May 21				
BYR	eP	23	22	32
May 21				
BYR	eP	23	25	39
May 21				
BYR	eP	23	38	16
May 21				
BYR	e(P)	23	53	35

Date and Station	Phase	h	m	s
May 22				
BYR	eP	00	15	27
May 22				
BYR	iP	00	19	18
May 22				
BYR	eP	00	40	48
SPA	eP	00	41	50
May 22				
BYR	eP	00	49	01
May 22				
BYR	iP	00	54	32
May 22				
BYR	eP	00	56	23
	e(PP)		59	38
SPA	eP	00	57	12
	e		57	25
	e		58	48
	e	01	00	28
May 22				
BYR	iP	01	00	52
SPA	eP	01	01	40
	e		01	45
	e		01	49
May 22				
BYR	iP	01	05	14
May 22				
BYR	iP	01	08	04
SPA	eP	01	08	20
	e		08	27
	e		08	46
	e(PcP)		09	01
May 22				
BYR	iP	01	19	30
	ePP		19	37
May 22				
BYR	iP	01	39	27
	iPP		41	19
May 22				
BYR	e(P)	02	41	38
May 22				
BYR	eP	02	58	42
May 22				
BYR	iP	03	15	02
SPA	eP	03	15	51
	e		15	57
May 22				
BYR	iP	03	41	13
SPA	eP	03	42	02
	e		42	05

Date and Station	Phase	h	m	s
May 22				
BYR	iP	03	54	57
SPA	eP	03	55	45
	e		55	53
	e		56	10
	ePP		57	54
May 22				
BYR	iP	04	06	49
May 22				
BYR	eP	04	22	31
SPA	eP	04	23	20
May 22				
BYR	eP	04	24	17
SPA	eP	04	25	06
	e		25	13
May 22				
BYR	iP	06	09	59
	iPcP		11	23
	iPP		11	55
SPA	eP	06	10	49
	e		10	57
	e		11	26
	ePcP		12	08
May 22				
BYR	iP	06	20	07
	e		22	20
SPA	eP	06	20	37
	e		22	10
May 22				
BYR	iP	07	07	01
May 22				
BYR	eP	07	08	34
May 22				
BYR	eP	07	15	39
	iP		15	48
SPA	eP	07	16	29
	e		16	40
May 22				
BYR	e(P)	07	35	34
	i		35	52
	e		36	09
	e		36	25
SPA	eP	07	36	23
	e		36	31
May 22				
BYR	eP	07	44	25
	i		44	34
SPA	eP	07	45	15
	e		45	25
	e		45	43
	e		46	13

Date and Station	Phase	h	m	s
May 22				
BYR	iP	08	01	02
May 22				
BYR	iP	08	19	17
	i		19	25
SPA	eP	08	20	07
	e		20	14
	e		20	23
	e		21	12
	e(PcP)		22	17
May 22				
BYR	eP	08	30	55
May 22				
BYR	e(P)	09	03	19
May 22				
BYR	iP	09	12	17
May 22				
BYR	iP	10	39	03
	i		39	11
	i S		45	48
SPA	eP	10	39	52
	eS		47	23
	e(SS)		50	39
May 22				
BYR	iP	10	41	06
	i		41	11
	i		41	18
	iPcP		42	28
	eS		47	45
	eP'P'	11	11	36
SPA	eP	10	41	57
	ePcP		43	18
	e		45	16
	e		46	54
	e		47	43
	eS		49	24
	e		50	03
	e		50	17
	eSS		53	11
	eL	11	01	11
	e		09	33
	eP'P'		12	02
May 22				
BYR	eP	11	25	45
May 22				
BYR	iP	11	35	36
SPA	eP	11	36	25
	e		36	33
May 22				
BYR	eP	11	44	36
SPA	eP	11	45	28
	e		45	33
	ePcP		46	45

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Date and Station		Phase (GCT)			Date and Station		Phase (GCT)			Date and Station		Phase (GCT)			Date and Station		Phase (GCT)		
		h	m	s			h	m	s			h	m	s			h	m	s
May 22					May 22														
BYR	iP	12	13	55	BYR	iP	17	20	56	SPA	eP	23	02	14	SPA	eP	00	04	59
						i		21	05							e		05	12
SPA	eP	12	14	45						May 22						e		05	22
	e		14	51	SPA	eP	17	21	46	BYR	iP	23	03	25		e		05	41
						e		21	53		e		04	37		e(PcP)		06	21
May 22						e		21	56		e		05	25					
BYR	iP	12	25	05		e		22	10						May 23				
	i		25	13						SPA	eP	23	04	18	BYR	iP	00	15	28
					May 22						e		05	28					
SPA	eP	12	25	55	BYR	iP	17	35	47						SPA	eP	00	16	27
	e		26	04						May 22						e		16	39
	e		32	19	May 22					BYR	iP	23	12	33		e(PP)		18	51
					BYR	iP	17	52	08							eS		25	28
May 22										SPA	iP	23	13	26					
BYR	iP	12	38	45	May 22										May 23				
					BYR	eP	18	16	38	May 22					BYR	eP	00	29	58
SPA	eP	12	39	34						BYR	iP	23	15	10					
					SPA	eP	18	17	28						May 23				
May 22						e		17	37	SPA	eP	23	15	52	SPA	eP	00	34	53
BYR	eP	13	11	21												e		35	14
	i		11	29	May 22					May 22						e(PP)		37	28
	i		12	11	BYR	iP	19	04	19	BYR	iP	23	20	43					
															May 23				
SPA	eP	13	12	11	SPA	eP	19	05	09	SPA	eP	23	21	35	BYR	iP	00	49	55
	e		12	36							e		25	35					
	e		12	54	May 22						e		29	58	May 23				
	ePcP		13	37	BYR	iP	19	18	56						BYR	iP	00	59	40
										May 22						ePcP	01	02	07
May 22					May 22					BYR	e(P)	23	37	42					
BYR	iP	13	24	59	BYR	iP	21	20	21		iP		37	45	SPA	eP	01	00	07
											iPP		39	32		e		00	29
SPA	eP	13	25	48	May 22											e		00	39
	e		25	56	BYR	iP	21	38	11	SPA	eP	23	38	36		e		01	07
	e		26	11												e		02	48
					May 22					May 22						i		02	58
May 22					BYR	eP	22	00	01	BYR	iP	23	40	27					
BYR	eP	13	38	48							i		40	31	May 23				
					May 22										SPA	eP	01	03	20
May 22					BYR	eP	22	05	33	May 22						e		03	28
BYR	eP	14	04	43						BYR	iP	23	42	48					
					May 22										May 23				
May 22					BYR	iP	22	15	17	May 22					BYR	iP	01	10	00
BYR	iP	14	47	35						BYR	eP	23	43	42		ePcP		11	40
					May 22						e(pP)		43	52		e(PP)		12	13
SPA	eP	14	48	24	BYR	eP	22	22	13										
	e		48	31						May 22					SPA	eP	01	10	51
					May 22					BYR	iP	23	47	34		e		11	02
May 22					BYR	iP	22	23	44							e		11	38
BYR	eP	15	32	43						SPA	eP	23	47	11		ePcP		12	04
					May 22														
SPA	eP	15	33	16	BYR	iP	22	29	06	May 22					May 23				
	e		33	20						BYR	iP	23	48	50	BYR	eP	01	20	13
	e		33	22	May 22						ipP		48	58					
					BYR	iP	22	38	56						May 23				
May 22										SPA	eP	23	48	48	BYR	eP	01	32	33
BYR	iP	16	10	52	May 22														
					BYR	iP	22	40	47	May 22					May 23				
May 22										BYR	e(P)	23	52	42	BYR	iP	01	43	04
BYR	eP	16	23	37	May 22						iP		52	45					
					BYR	iP	22	54	21						SPA	eP	01	43	54
May 22										SPA	eP	23	52	39		e		44	01
SPA	eP	16	32	49	May 22											e		44	10
					BYR	iP	22	56	30	May 22						e		44	49
May 22										BYR	iP	23	53	02					
BYR	iP	16	44	43	May 22										May 23				
					BYR	iP	22	57	44	May 23					BYR	eP	01	50	48
SPA	eP	16	45	34						BYR	iP	00	04	08					
					May 22														
					BYR	iP	23	01	06										

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Date and Station	Phase (GCT)	h	m	s
SPA	eP	01	51	40
	e		51	48
May 23				
BYR	eP	01	52	19
SPA	eP	01	53	10
	e		57	52
May 23				
BYR	iP	02	04	10
SPA	eP	02	05	00
May 23				
BYR	eP	02	13	10
	ePcP		14	30
	e		14	35
SPA	eP	02	14	01
	ePcP		15	27
May 23				
BYR	eP	02	20	06
SPA	eP	02	20	58
May 23				
BYR	iP	02	29	40
SPA	eP	02	30	33
May 23				
BYR	eP	02	34	08
SPA	eP	02	34	58
	e		35	57
May 23				
BYR	eP	02	45	28
May 23				
BYR	iP	02	48	09
SPA	eP	02	48	59
May 23				
BYR	iP	02	51	57
SPA	eP	02	52	48
	e		53	22
May 23				
BYR	iP	02	54	26
SPA	eP	02	55	17
	e		55	24
	e		55	40
May 23				
BYR	iP	03	03	59
	e		07	39
SPA	eP	03	04	52
	e		06	24
	e		08	36

Date and Station	Phase (GCT)	h	m	s
May 23				
BYR	eP	03	10	34
May 23				
BYR	eP	03	20	13
	e		20	26
	e		21	09
May 23				
BYR	eP	03	25	34
May 23				
BYR	eP	03	29	56
May 23				
SPA	eP	03	33	29
	e		41	43
	e		42	06
May 23				
BYR	i(P)	03	59	02
May 23				
BYR	eP	04	04	35
May 23				
BYR	eP	04	08	30
SPA	eP	04	09	20
May 23				
BYR	eP	04	12	39
May 23				
BYR	eP	04	15	02
May 23				
BYR	e(P)	04	27	31
	e		27	51
SPA	eP	04	28	43
May 23				
BYR	eP	04	32	23
	e		33	20
SPA	eP	04	33	18
	e		34	12
May 23				
BYR	eP	04	35	14
	e		37	15
SPA	eP	04	36	05
May 23				
BYR	eP	04	42	52
May 23				
BYR	eP	04	55	28
	e		58	46
SPA	eP	04	56	21
	e		56	39
May 23				
SPA	eP	05	19	15
	e		19	52

Date and Station	Phase (GCT)	h	m	s
May 23				
BYR	iP	05	21	58
SPA	iP	05	22	47
	e		22	58
	ePcP		24	13
	e(S)		30	29
May 23				
BYR	eP	05	55	28
SPA	eP	05	56	04
May 23				
BYR	eP	06	15	39
May 23				
BYR	iP	06	16	25
SPA	eP	06	17	20
	e		17	34
May 23				
BYR	eP	06	22	11
SPA	eP	06	23	02
May 23				
BYR	eP	06	26	05
SPA	eP	06	26	56
May 23				
BYR	iP	06	33	46
May 23				
BYR	e(P)	06	37	34
May 23				
BYR	e(P)	06	41	09
May 23				
BYR	eP	06	46	12
May 23				
BYR	eP	06	53	58
May 23				
BYR	eP	07	00	18
SPA	eP	07	01	08
May 23				
BYR	eP	07	10	54
May 23				
BYR	eP	07	16	17
SPA	eP	07	17	13
	e		17	41
	e		17	54
May 23				
BYR	iP	07	32	42
May 23				
BYR	eP	07	51	10

Date and Station	Phase (GCT)	h	m	s
May 23				
BYR	iP	08	21	17
SPA	iP	08	22	09
	e		22	14
May 23				
BYR	eP	08	54	02
May 23				
BYR	eP	09	07	57
May 23				
SPA	eP	09	34	00
May 23				
BYR	eP	09	34	08
SPA	eP	09	35	07
May 23				
BYR	eP	09	54	07
SPA	eP	09	54	58
	e		59	17
May 23				
BYR	eP	10	00	40
SPA	eP	10	01	34
	e(PcP)		02	30
May 23				
BYR	eP	10	38	09
May 23				
BYR	eP	10	45	37
SPA	eP	10	46	31
	e		46	38
	e		47	09
	e		51	58
	eS		53	30
May 23				
BYR	eP	11	05	49
May 23				
BYR	eP	11	09	57
May 23				
BYR	eP	11	30	28
SPA	eP	11	31	19
	e		31	26
	e		36	32
May 23				
SPA	eP	11	48	01
	e		48	09
	e		49	16
	e		50	27
May 23				
BYR	eP	11	52	51
SPA	eP	11	53	44

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Date and Station	Phase (GCT)	h m s
May 23		
BYR	eP	11 58 06
SPA	eP	11 58 58
May 23		
SPA	eP	12 11 40
	e	11 51
	e	12 28
	e	12 42
May 23		
SPA	eP	13 20 40
May 23		
SPA	eP	13 33 14
	e	33 33
	e	34 07
May 23		
BYR	iP	14 07 44
SPA	eP	14 08 41
	e	08 56
May 23		
BYR	eP	14 09 20
SPA	eP	14 10 13
May 23		
SPA	eP	14 20 14
May 23		
BYR	iP	15 34 03
May 23		
BYR	eP	15 49 58
SPA	eP	15 50 48
May 23		
BYR	eP	15 52 34
SPA	eP	15 53 27
	e	53 34
	e	53 51
	e	54 01
May 23		
BYR	e(P)	16 11 52
May 23		
BYR	eP	16 19 53
SPA	eP	16 20 47
May 23		
BYR	e(P)	16 22 31
SPA	iP	16 22 48
	e	22 59
May 23		
BYR	eP	16 31 23
SPA	eP	16 32 15
	e	32 21

Date and Station	Phase (GCT)	h m s
May 23		
SPA	eP	17 11 52
	e	12 06
	e	13 23
May 23		
BYR	e(P)	17 52 28
SPA	eP	17 53 22
May 23		
BYR	eP	18 30 22
SPA	eP	18 31 15
	e	31 23
	e	35 42
May 23		
BYR	eP	19 03 37
SPA	eP	19 04 27
	e	04 36
May 23		
BYR	eP	19 07 51
SPA	eP	19 08 48
	e	08 57
May 23		
BYR	eP	19 12 55
SPA	eP	19 13 47
	e	13 54
May 23		
BYR	eP	19 17 15
SPA	iP	19 18 07
	e	18 26
May 23		
BYR	eP	19 34 36
SPA	eP	19 35 27
	e	35 38
	e	36 24
May 23		
BYR	eP	19 52 35
SPA	eP	19 53 25
May 23		
BYR	eP	20 07 44
SPA	eP	20 08 35
May 23		
SPA	eP	20 42 02
	e	49 25
May 23		
BYR	eP	21 15 33
SPA	eP	21 16 29
	e(pP)	16 38
	e(S)	23 15

Date and Station	Phase (GCT)	h m s
May 23		
BYR	eP	21 21 10
SPA	eP	21 22 05
May 23		
BYR	eP	21 49 13
May 23		
BYR	eP	21 59 02
May 23		
BYR	eP	22 14 10
SPA	eP	22 15 00
	e	15 28
	e	17 52
May 23		
SPA	eP	22 51 01
	e	51 30
May 23		
BYR	eP	22 53 36
SPA	eP	22 54 28
	e	54 39
	e	57 55
May 23		
BYR	eP	23 21 10
SPA	eP	23 22 02
	e	22 16
May 23		
SPA	eP	23 39 28
May 24		
BYR	e(P)	00 02 31
May 24		
BYR	e(P)	00 15 32
May 24		
BYR	eP	00 27 53
SPA	eP	00 28 44
May 24		
BYR	eP	00 31 21
May 24		
BYR	eP	00 33 50
SPA	eP	00 34 40
	e	35 41
May 24		
BYR	e(P)	00 51 25
SPA	eP	00 52 17
	e	53 04
May 24		
BYR	e(P)	01 08 32
SPA	eP	01 09 24

Date and Station	Phase (GCT)	h m s
May 24		
BYR	e(P)	01 43 41
May 24		
BYR	eP	01 45 15
SPA	eP	01 46 06
	e	46 54
May 24		
BYR	eP	01 48 49
	e(S)	54 45
SPA	eP	01 49 40
	e	49 48
	e	49 53
	ePcP	51 11
May 24		
BYR	eP	01 57 26
SPA	eP	01 58 17
	e	02 18 13
May 24		
BYR	eP	02 05 44
May 24		
BYR	eP	02 06 56
May 24		
BYR	eP	02 11 45
May 24		
BYR	eP	02 16 09
	e	17 16
May 24		
BYR	eP	02 24 21
May 24		
BYR	eP	02 30 17
May 24		
BYR	eP	02 41 10
SPA	eP	02 42 01
	e	42 08
May 24		
BYR	e(P)	02 49 35
SPA	eP	02 50 18
	e	50 26
May 24		
BYR	iP	02 55 11
SPA	eP	02 56 05
	e	56 13
	ePcP	57 27
May 24		
BYR	eP	03 13 33
May 24		
BYR	eP	03 29 07

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Date and Station	Phase (GCT)	h m s
May 24		
BYR	eP	03 32 19
	e	36 43
SPA	eP	03 33 09
	e	33 10
	ePP	35 13
May 24		
BYR	eP	03 45 42
May 24		
BYR	eP	03 54 48
	e(PP)	56 57
	e(S)	04 01 48
SPA	eP	03 55 38
	e	55 53
	e	55 59
	ePP	57 50
	e	57 57
May 24		
BYR	eP	04 07 29
SPA	eP	04 08 22
May 24		
BYR	eP	04 15 41
May 24		
BYR	eP	04 22 49
SPA	eP	04 23 41
May 24		
BYR	iP	04 26 50
SPA	eP	04 27 41
	e	27 50
May 24		
BYR	eP	04 35 46
May 24		
BYR	eP	04 55 16
May 24		
BYR	eP	04 57 14
SPA	eP	04 58 05
	e	58 28
May 24		
BYR	eP	05 05 04
SPA	eP	05 05 56
May 24		
BYR	e(P)	05 10 48
May 24		
BYR	eP	05 35 49
May 24		
BYR	eP	06 02 48
SPA	eP	06 03 41

Date and Station	Phase (GCT)	h m s
May 24		
BYR	eP	06 18 30
May 24		
BYR	eP	06 31 37
SPA	eP	06 32 22
	e	32 28
	e	32 35
May 24		
BYR	eP	06 36 48
May 24		
BYR	eP	06 42 38
May 24		
BYR	eP	06 48 12
May 24		
BYR	eP	06 51 14
May 24		
BYR	eP	07 08 10
May 24		
BYR	eP	07 12 35
SPA	eP	07 11 27
May 24		
BYR	eP	07 39 13
May 24		
BYR	eP	07 52 16
May 24		
BYR	eP	07 55 04
May 24		
BYR	eP	07 59 02
SPA	eP	07 59 58
	e	08 00 15
	e	00 56
May 24		
SPA	eP	08 12 21
May 24		
BYR	e(P)	08 20 45
	e	22 55
May 24		
BYR	e(P)	08 26 28
May 24		
BYR	eP	08 35 58
SPA	eP	08 36 51
May 24		
SPA	eP	09 10 24
May 24		
SPA	eP	09 14 26
May 24		
BYR	eP	09 15 40

Date and Station	Phase (GCT)	h m s
SPA	eP	09 16 29
	e	16 43
May 24		
BYR	eP	09 20 05
May 24		
BYR	eP	09 23 33
	e	24 32
May 24		
BYR	eP	09 28 35
May 24		
BYR	eP	09 30 04
	e	32 04
May 24		
SPA	eP	09 36 24
	e	36 36
May 24		
BYR	eP	09 42 55
SPA	eP	09 43 46
May 24		
BYR	eP	09 46 08
May 24		
BYR	eP	09 59 37
May 24		
BYR	eP	10 23 01
	e	24 02
May 24		
BYR	eP	10 30 07
	e	35 16
SPA	eP	10 30 57
	e	31 07
	e	31 18
May 24		
SPA	eP	10 57 58
May 24		
BYR	e(P)	11 02 02
SPA	eP	11 02 56
May 24		
BYR	e(P)	11 36 38
May 24		
BYR	eP	11 45 05
May 24		
BYR	eP	11 57 06
May 24		
BYR	e(P)	12 04 46
May 24		
BYR	eP	12 23 16
SPA	eP	12 24 07

Date and Station	Phase (GCT)	h m s
May 24		
BYR	eP	12 26 18
May 24		
BYR	eP	12 38 50
	e	40 42
May 24		
BYR	eP	12 49 37
SPA	eP	12 50 28
May 24		
BYR	eP	13 00 29
	e	03 08
SPA	eP	13 01 21
	e	01 28
May 24		
BYR	eP	13 23 29
May 24		
BYR	e(P)	13 26 36
May 24		
BYR	eP	13 27 37
May 24		
BYR	eP	13 42 10
May 24		
BYR	eP	13 48 08
May 24		
BYR	eP	14 13 57
May 24		
BYR	eP	14 14 29
May 24		
BYR	eP	14 24 35
May 24		
BYR	eP	14 33 03
	e	35 40
May 24		
BYR	iP	14 54 42
SPA	iP	14 54 58
	e(PP)	56 07
	e(PPP)	57 02
	e	57 33
	e	57 39
	eS	15 11 07
	e	14 02
	eL	17 52
May 24		
SPA	eP	15 19 32
May 24		
BYR	iP	15 23 52
SPA	eP	15 24 44
	e	24 50

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Date and Station	Phase (GCT)	h m s
May 24		
SPA	eP	15 39 24
May 24		
BYR	iP	15 49 43
May 24		
BYR	eP	15 52 23
	e	52 40
	ePP	54 29
SPA	eP	15 53 31
	e	53 39
May 24		
BYR	eP	16 08 55
SPA	eP	16 09 47
May 24		
BYR	eP	16 17 40
May 24		
BYR	eP	16 26 36
May 24		
BYR	eP	16 29 37
May 24		
BYR	eP	16 37 57
May 24		
BYR	eP	17 11 10
May 24		
BYR	eP	17 19 32
May 24		
BYR	eP	17 53 11
SPA	eP	17 53 31
May 24		
BYR	iP	17 59 02
SPA	eP	17 59 52
May 24		
BYR	eP	18 02 55
SPA	eP	18 03 49
May 24		
BYR	eP	18 30 24
May 24		
BYR	eP	19 12 13
May 24		
BYR	eP	19 32 25
May 24		
BYR	eP	19 51 58
May 24		
BYR	eP	19 56 42
May 24		
BYR	eP	20 00 34

Date and Station	Phase (GCT)	h m s
May 24		
BYR	iP	20 06 58
SPA	eP	20 07 49
	e	07 58
May 24		
SPA	eP	20 17 56
	e	18 16
May 24		
BYR	eP	20 32 44
May 24		
BYR	eP	20 38 59
	i	39 23
SPA	eP	20 39 52
	i	40 15
	e	40 53
	ePP	41 09
	e	43 44
	e(S)	46 18
May 24		
BYR	e(P)	20 47 33
May 24		
BYR	eP	21 22 43
May 24		
BYR	eP	21 30 10
May 24		
BYR	eP	22 04 55
	i	05 20
SPA	eP	22 06 13
	e	06 20
May 24		
SPA	eP	22 19 22
	e	19 44
May 24		
SPA	eP	22 28 46
May 24		
BYR	eP	22 33 35
May 24		
BYR	eP	22 40 43
May 24		
BYR	eP	22 42 53
May 24		
BYR	eP	22 45 45
SPA	eP	22 46 44
May 24		
BYR	eP	22 55 22
May 24		
BYR	eP	23 05 25
SPA	eP	23 06 18

Date and Station	Phase (GCT)	h m s
May 24		
BYR	eP	23 22 58
May 24		
BYR	eP	23 31 12
SPA	eP	23 32 03
May 25		
BYR	eP	00 03 50
SPA	eP	00 04 40
	e	04 50
May 25		
BYR	eP	00 23 35
May 25		
BYR	iP	00 26 39
SPA	iP	00 27 34
	e	27 41
	e	27 51
May 25		
BYR	eP	00 35 37
SPA	eP	00 36 26
	e	36 37
May 25		
BYR	eP	00 44 55
May 25		
BYR	eP	00 48 10
May 25		
SPA	eP	00 54 30
May 25		
BYR	eP	00 57 51
SPA	eP	00 58 41
	e	58 50
May 25		
BYR	eP	01 27 46
May 25		
BYR	eP	01 34 52
May 25		
BYR	eP	01 38 23
SPA	eP	01 39 15
May 25		
BYR	eP	01 50 17
May 25		
BYR	eP	02 25 19
May 25		
BYR	eP	02 38 10
May 25		
BYR	eP	02 45 51

Date and Station	Phase (GCT)	h m s
SPA	eP	02 46 07
	e	46 10
	e	46 20
	e	46 33
	e	48 29
May 25		
BYR	eP	03 06 53
May 25		
BYR	eP	03 23 58
SPA	iP	03 24 50
	e	24 57
	e	25 21
May 25		
BYR	eP	03 35 49
May 25		
BYR	eP	03 41 46
May 25		
BYR	eP	03 44 02
May 25		
BYR	e(P)	04 03 48
SPA	eP	04 04 37
	e	04 43
	e	08 23
May 25		
BYR	eP	04 51 20
SPA	eP	04 52 13
	e	52 27
	e	52 35
	e	52 51
May 25		
BYR	eP	05 32 47
SPA	eP	05 33 37
May 25		
BYR	eP	05 39 40
SPA	eP	05 40 33
	e	40 39
May 25		
BYR	eP	05 51 31
SPA	eP	05 50 35
	e	51 40
May 25		
BYR	eP	06 10 47
May 25		
BYR	eP	06 14 10
May 25		
BYR	eP	06 39 57
May 25		
BYR	eP	06 41 47

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Date and Station	Phase (GCT)	h m s
SPA	eP	06 42 38
	e	42 45
May 25		
BYR	eP	06 51 19
SPA	eP	06 52 11
	e	52 26
May 25		
BYR	eP	07 04 22
May 25		
BYR	eP	07 08 51
May 25		
BYR	eP	07 47 44
May 25		
BYR	eP	07 50 07
May 25		
BYR	eP	08 13 00
SPA	eP	08 13 52
May 25		
BYR	eP	08 42 00
SPA	iP	08 42 54
	e	43 44
	e	43 50
	ePP	44 49
	e	46 10
May 25		
BYR	eP	09 06 52
May 25		
BYR	eP	09 28 44
May 25		
SPA	eP	09 39 33
May 25		
BYR	eP	09 57 30
SPA	eP	09 58 20
May 25		
BYR	eP	10 07 56
SPA	eP	10 08 40
	e	08 50
	e	09 03
	ePcP	10 09
May 25		
BYR	e(P)	10 23 11
SPA	eP	10 23 46
	e(pP)	23 58
	e	24 14
	e	24 21
May 25		
BYR	eP	10 41 58
May 25		
BYR	eP	10 47 21
May 25		
BYR	eP	11 54 53
May 25		
BYR	eP	12 03 21
May 25		
BYR	eP	12 53 32
SPA	eP	12 54 23
	e(pP)	54 37
May 25		
BYR	eP	13 49 48
SPA	eP	13 50 03
May 25		
BYR	e(P)	13 51 53
SPA	eP	13 51 32
	e	51 37
	e	52 44
	e	52 52
May 25		
BYR	eP	14 52 14
May 25		
BYR	eP	14 59 54
SPA	eP	15 00 50
May 25		
BYR	e(P)	15 08 51
SPA	iP	15 09 19
	e	09 29
	epP	11 20
May 25		
BYR	eP	15 14 50
SPA	eP	15 15 19
May 25		
BYR	eP	15 33 58
SPA	eP	15 34 52
May 25		
BYR	eP	15 53 00
SPA	eP	15 53 50
	e	53 56
	e	54 08
May 25		
BYR	eP	16 01 30
SPA	eP	16 01 41
May 25		
BYR	eP	16 15 55
SPA	eP	16 16 45
	e	20 25
May 25		
BYR	eP	16 30 56
May 25		
BYR	iP	16 54 22
SPA	eP	16 55 14
	e	55 20
	e	55 37
May 25		
SPA	eP	17 13 26
May 25		
BYR	eP	17 27 36
May 25		
BYR	eP	18 00 00
SPA	eP	18 00 51
	e	01 26
May 25		
BYR	e(P)	18 11 22
SPA	eP	18 12 11
May 25		
BYR	eP	18 28 02
SPA	eP	18 28 56
	e	29 00
	e	30 31
May 25		
BYR	iP	19 29 56
SPA	eP	19 30 48
	e	30 54
	e	31 09
	ePcP	32 07
May 25		
BYR	e(P)	21 12 34
May 25		
BYR	iP	22 17 09
May 25		
BYR	e(P)	23 00 54
SPA	eP	23 01 46
	e	01 49
	e	03 15
May 25		
BYR	e(P)	23 23 16
SPA	eP	23 24 08
	e	24 15
May 25		
BYR	e(P)	23 43 34
SPA	eP	23 44 29
	e	44 34
May 26		
BYR	iP	00 09 06
SPA	eP	00 09 58
	e	10 06
May 26		
BYR	e(P)	00 16 00
May 26		
BYR	e(P)	00 16 38
May 26		
BYR	eP	00 31 59
May 26		
BYR	e(P)	00 34 25
May 26		
BYR	e(P)	00 41 48
SPA	eP	00 42 39
	e	42 46
May 26		
BYR	e(P)	01 17 16
May 26		
BYR	iP	01 18 30
	ePcP	20 54
SPA	eP	01 19 26
	e	19 34
	e	22 46
May 26		
BYR	eP	01 37 12
SPA	iP	01 38 04
	e	38 17
	e	38 22
	e	38 40
May 26		
BYR	eP	01 54 52
SPA	eP	01 55 45
May 26		
BYR	e(P)	02 14 24
May 26		
BYR	eP	02 19 20
May 26		
BYR	eP	03 12 45
SPA	eP	03 11 39
	e	11 45
May 26		
BYR	e(P)	03 29 42
May 26		
BYR	e(P)	03 53 45
May 26		
BYR	eP	04 20 29
May 26		
BYR	eP	04 43 20

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Date and Station	Phase (GCT)	h m s
SPA	eP	04 44 14
May 26		
BYR	eP'	05 29 39
	e	38 32
	eP'P'	50 53
SPA	eP'	05 29 23
	e	29 27
	e	29 52
	ePP	31 39
May 26		
BYR	eP	06 08 32
May 26		
BYR	eP	06 11 32
SPA	eP	06 12 26
May 26		
BYR	e(P)	06 15 43
May 26		
BYR	iP	06 48 40
May 26		
BYR	eP	06 50 38
SPA	eP	06 51 30
	e	51 38
May 26		
BYR	eP	07 27 52
May 26		
BYR	eP	07 35 49
May 26		
BYR	e(P)	07 50 18
May 26		
BYR	eP	07 52 22
SPA	eP	07 53 13
	e	53 43
May 26		
BYR	eP	08 04 20
May 26		
BYR	eP	08 24 51
SPA	eP	08 25 44
May 26		
BYR	eP	09 14 51
May 26		
SPA	eP	09 18 48
	e	18 53
May 26		
BYR	eP	09 28 08
May 26		
BYR	eP	09 32 54

Date and Station	Phase (GCT)	h m s
SPA	eP	09 33 46
May 26		
BYR	e(P)	09 42 04
May 26		
BYR	e(P)	10 07 17
SPA	eP	10 08 07
	e	08 16
May 26		
BYR	eP	10 10 15
May 26		
BYR	e(P)	10 16 11
May 26		
BYR	e(P)	10 35 53
May 26		
BYR	e(P)	11 12 44
May 26		
BYR	eP	11 43 56
May 26		
BYR	iP	12 02 36
	i	02 44
	e(S)	08 24
SPA	eP	12 03 28
	e	03 36
	e	03 44
	e	04 00
May 26		
BYR	iP	12 28 33
SPA	eP	12 29 27
	e	29 44
	e	13 03 03
	e	03 42
May 26		
BYR	e(P)	12 38 40
May 26		
BYR	e(P)	12 43 01
May 26		
BYR	e(P)	13 02 07
	e	02 26
	e	02 49
May 26		
BYR	e(P)	13 28 55
May 26		
BYR	iP	15 14 20
	i	16 33
SPA	eP	15 15 12
	e	15 14
	e(pP)	15 26
	e	17 25
	e(PcP)	17 32

Date and Station	Phase (GCT)	h m s
May 26		
BYR	eP	15 44 41
May 26		
BYR	e(P)	15 59 27
May 26		
BYR	eP	16 03 22
	e	03 44
SPA	eP	16 04 13
	e	04 35
May 26		
BYR	eP	16 18 08
SPA	eP	16 19 01
May 26		
BYR	iP	17 11 06
	e(S)	16 48
SPA	eP	17 11 59
	e	12 06
	epP	12 16
May 26		
BYR	eP	17 45 23
May 26		
BYR	eP	18 13 11
SPA	eP	18 14 01
May 26		
BYR	e(P)	18 35 57
May 26		
BYR	eP	18 55 52
May 26		
BYR	eP	19 21 09
SPA	eP	19 22 02
	e	22 18
May 26		
BYR	iP	19 24 43
SPA	eP	19 25 36
May 26		
BYR	eP	19 42 13
SPA	eP	19 43 03
	e	43 26
	e	43 34
May 26		
BYR	eP	20 07 30
SPA	eP	20 08 20
	e	08 28
	e	08 41
May 26		
BYR	e(P)	20 11 59

Date and Station	Phase (GCT)	h m s
May 26		
BYR	eP'	20 24 09
May 26		
BYR	eP	21 17 16
May 26		
BYR	e(P)	21 32 50
May 26		
BYR	e(P)	22 00 20
May 26		
BYR	e(P)	22 01 53
May 26		
BYR	eP	23 07 20
May 27		
BYR	eP	00 30 40
SPA	eP	00 30 56
	e	31 22
May 27		
BYR	eP	00 35 45
SPA	iP	00 36 06
	e	36 26
	ePcP	36 41
May 27		
BYR	eP	00 43 44
SPA	iP	00 44 35
	e	44 45
	e	44 52
May 27		
BYR	iP	01 07 13
SPA	eP	01 08 08
	e	08 16
	e	08 26
May 27		
BYR	eP	01 35 30
SPA	eP	01 36 21
	e	36 29
May 27		
BYR	e(P)	01 41 29
May 27		
SPA	eP[i]	01 45 36
May 27		
BYR	iP	03 25 18
SPA	eP	03 26 11
	e	26 19
	e	26 29
	ePcP	27 38
May 27		
BYR	eP	03 43 00

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Date and Station	Phase (GCT)	h m s
SPA	eP	03 43 51
	e	43 54
	e	43 59
	e	44 08
May 27		
BYR	e(P)	03 59 29
May 27		
BYR	e(P)	04 19 07
SPA	eP	04 20 03
	e	20 11
	e	20 23
May 27		
BYR	e(P)	04 47 57
SPA	eP	04 47 58
May 27		
BYR	eP	04 50 29
SPA	eP	04 51 08
May 27		
BYR	e(P)	05 12 54
SPA	eP	05 12 46
May 27		
BYR	e(P)	07 03 15
SPA	eP	07 04 06
	e	04 14
May 27		
BYR	eP	08 04 51
	e	05 00
SPA	eP	08 05 43
	e	05 52
May 27		
BYR	e(P)	08 11 43
SPA	eP	08 12 36
	e	12 44
May 27		
BYR	iP	10 33 06
	e	36 39
SPA	eP	10 33 56
	e	34 08
	e	34 40
	e(PP)	37 31
May 27		
SPA	eP	11 19 50
May 27		
BYR	eP	11 35 16
SPA	eP	11 36 03
	e	36 10
May 27		
BYR	e(P)	12 20 03
SPA	eP	12 20 56
May 27		
BYR	e(P)	12 42 52
May 27		
BYR	e(P)	13 45 08
May 27		
BYR	e(P)	13 58 48
May 27		
BYR	e(P)	14 10 28
SPA	eP	14 11 19
	e	11 30
	e	11 40
May 27		
BYR	e(P)	14 47 06
SPA	eP	14 47 59
	e	48 06
May 27		
BYR	e(P)	15 57 21
May 27		
BYR	e(P)	15 59 30
May 27		
BYR	eP	17 26 43
SPA	eP	17 26 26
	e	27 10
May 27		
BYR	eP	17 33 07
SPA	eP	17 32 35
	e	32 46
	e	33 06
May 27		
BYR	eP	18 14 42
SPA	eP	18 15 34
	e	15 41
May 27		
BYR	eP	18 33 20
SPA	eP	18 34 10
May 27		
BYR	e(P)	19 46 47
SPA	eP	19 47 39
	e	47 44
	e	47 50
May 27		
BYR	eP	20 15 36
SPA	eP	20 16 27
May 27		
BYR	eP	20 22 22
SPA	eP	20 22 22
	e	22 31
	e	22 59
May 27		
BYR	eP	20 27 34
SPA	eP	20 27 35
May 27		
BYR	e(P)	20 31 47
May 27		
BYR	eP	20 59 43
SPA	eP	21 00 23
	e	00 40
	e	00 44
May 27		
BYR	e(P)	22 27 28
May 27		
SPA	eP	22 33 29
May 27		
BYR	e(P)	22 38 12
May 27		
BYR	iP	23 14 19
SPA	eP	23 15 31
	e	15 52
	e	20 27
May 27		
SPA	eP	23 22 45
	e	23 37
	e	23 48
May 27		
SPA	eP	23 29 00
	e	29 10
	e	29 33
May 28		
BYR	e(P)	00 31 24
May 28		
BYR	eP	01 34 19
SPA	eP	01 35 12
	e	35 20
	e	35 30
May 28		
BYR	eP	01 54 37
SPA	eP	01 55 46
May 28		
BYR	eP	02 06 01
May 28		
SPA	eP	02 21 58
	e	22 10
May 28		
BYR	e(P)	03 06 53
May 28		
BYR	e(P)	03 10 04
SPA	eP	03 10 57
	e	11 09
May 28		
BYR	iP	03 14 06
SPA	eP	03 14 56
	e	15 03
	e	15 42
May 28		
BYR	e(P)	05 09 46
SPA	eP	05 10 38
	e	10 54
May 28		
BYR	e(P)	05 53 18
May 28		
BYR	iP	06 13 26
SPA	eP	06 14 19
	e	14 33
	ePP	16 02
May 28		
SPA	eP	06 37 10
May 28		
BYR	iP	07 03 25
SPA	eP	07 04 15
	e	04 32
May 28		
BYR	eP	07 27 56
May 28		
BYR	e(P)	07 47 24
May 28		
BYR	eP	08 29 30
May 28		
BYR	e(P)	09 54 08
SPA	eP	09 55 00
May 28		
BYR	e(P)	10 22 28
May 28		
BYR	e(P)	10 26 46
May 28		
BYR	iP	10 52 09
SPA	eP	10 53 00
	e	53 08
	e	53 26
	ePcP	54 22
	eS	59 32

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Date and Station	Phase	(GCT) h m s
May 28		
BYR	eP	11 07 36
May 28		
BYR	eP	11 14 06
SPA	eP	11 14 55
	e	15 04
	e	15 19
	e	15 28
May 28		
BYR	iP	11 47 20
SPA	eP	11 48 12
	e	48 28
May 28		
BYR	e(P)	13 09 13
SPA	eP	13 10 02
May 28		
BYR	e(P)	13 43 59
May 28		
BYR	eP	14 03 11
SPA	eP	14 04 02
May 28		
BYR	iP	14 17 52
SPA	eP	14 18 09
	e	18 14
May 28		
BYR	eP	14 24 33
SPA	eP	14 25 26
May 28		
BYR	eP	15 59 37
SPA	eP	16 00 32
	e	00 39
May 28		
SPA	eP	17 50 30
May 28		
BYR	eP	18 45 57
SPA	eP	18 46 00
May 28		
BYR	e(P)	18 51 59
SPA	eP	18 52 51
May 28		
BYR	eP	19 01 14
May 28		
BYR	eP	19 59 49
May 28		
BYR	e(P)	21 52 12

Date and Station	Phase	(GCT) h m s
May 28		
BYR	e(P)	22 07 47
May 29		
BYR	e(P)	00 10 16
May 29		
BYR	eP	00 17 18
May 29		
BYR	eP	01 36 33
SPA	eP	01 37 24
	e	37 31
May 29		
BYR	iP	01 59 35
SPA	eP	02 00 27
	e	00 34
May 29		
BYR	eP	02 40 25
SPA	eP	02 41 17
	e	41 25
May 29		
BYR	eP	03 41 40
SPA	eP	03 42 30
	e	42 35
	e	43 18
May 29		
SPA	eP	05 01 32
May 29		
BYR	eP	05 09 27
SPA	eP	05 10 20
May 29		
BYR	e(P)	05 20 05
May 29		
BYR	e(P)	05 27 46
SPA	eP	05 28 35
May 29		
BYR	eP	05 34 57
SPA	eP	05 35 47
	e	35 54
	e	36 12
May 29		
SPA	eP	05 49 18
May 29		
SPA	eP	06 59 25
May 29		
BYR	eP	07 01 20
SPA	eP	07 02 15

Date and Station	Phase	(GCT) h m s
May 29		
BYR	iP	07 47 56
SPA	iP	07 48 44
	e	48 54
	ePcP	49 51
	e	50 27
	e(PP)	50 37
	e(PPP)	51 47
	eS	56 39
May 29		
BYR	eP	08 01 23
SPA	eP	08 02 15
	i	02 22
May 29		
BYR	eP	08 42 46
SPA	eP	08 43 35
	e	43 43
	e	43 52
	e(PcP)	44 35
	i	49 10
May 29		
BYR	e(P)	09 24 56
May 29		
BYR	eP	10 25 26
SPA	eP	10 26 18
	e	26 27
May 29		
BYR	eP	10 30 26
SPA	eP	10 31 16
May 29		
BYR	e(P)	11 02 57
SPA	eP	11 03 46
	e	03 53
May 29		
BYR	e(P)	12 41 18
May 29		
BYR	e(P)	13 09 30
May 29		
SPA	eP	13 45 07
May 29		
BYR	eP	13 59 16
May 29		
BYR	eP	14 13 51
SPA	eP	14 14 40
	e	14 49
	e	15 21
	e	15 31
	e(PcP)	16 02
May 29		
BYR	eP	15 36 14

Date and Station	Phase	(GCT) h m s
SPA	eP	15 37 06
	e	37 12
May 29		
BYR	eP	17 13 33
May 29		
BYR	eP	17 48 30
SPA	eP	17 49 21
May 29		
BYR	eP	18 55 02
SPA	eP	18 55 55
May 29		
BYR	e(P)	19 09 56
SPA	eP	19 10 46
	e	10 55
May 29		
BYR	e(P)	20 10 59
SPA	eP	20 10 34
	e	10 37
	e	10 43
May 29		
BYR	iP	21 31 36
SPA	eP	21 32 29
	e	32 56
May 29		
BYR	eP	21 48 06
SPA	eP	21 48 55
	e	49 06
	e	49 20
May 29		
BYR	eP	23 27 30
SPA	eP	23 28 22
	e	28 55
	e	29 13
May 29		
SPA	eP	23 54 07
May 30		
SPA	eP	01 38 32
May 30		
BYR	eP	02 29 40
SPA	eP	02 30 32
	e	30 35
	e	30 40
May 30		
BYR	eP	03 05 30
SPA	eP	03 06 21
	e	06 31

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Date and Station	Phase	(GCT)	h	m	s
May 30					
BYR	eP		04	12	01
May 30					
BYR	eP		04	17	31
SPA	eP		04	18	08
May 30					
BYR	eP		04	55	01
SPA	eP		04	55	53
	e			55	58
May 30					
SPA	eP		05	27	37
May 30					
BYR	e(P)		05	44	39
SPA	eP		05	45	39
May 30					
BYR	e(P)		06	07	25
SPA	eP		06	08	17
May 30					
BYR	iP		07	08	39
SPA	eP		07	09	32
	e			09	40
	e			09	51
May 30					
BYR	e(P)		07	46	22
May 30					
BYR	eP		08	38	25
SPA	eP		08	39	21
	e			39	26
	e			39	36
	e			39	47
	e			39	58
	e			40	52
May 30					
SPA	eP		09	32	37
May 30					
BYR	eP		09	51	57
SPA	eP		09	52	46
May 30					
BYR	e(P)		12	04	44
SPA	eP		12	05	35
May 30					
BYR	e(P)		12	50	39
SPA	eP		12	51	35
May 30					
SPA	eP		13	49	46

Date and Station	Phase	(GCT)	h	m	s
May 30					
BYR	eP		14	49	38
May 30					
BYR	eP		16	53	25
SPA	eP		16	54	18
	e			54	23
May 30					
BYR	iP		17	54	56
	e			55	01
SPA	eP		17	55	46
	e			55	53
	e			56	05
	e(PcP)			56	48
May 30					
BYR	eP		19	25	20
May 30					
BYR	e(P)		19	30	57
SPA	eP		19	31	50
	e			31	57
May 30					
BYR	eP		19	50	19
SPA	eP		19	51	10
	e			51	18
May 30					
BYR	e(P)		21	30	06
May 30					
BYR	e(P)		21	44	34
SPA	eP		21	45	28
	ePP			46	55
	ePPP			47	14
May 30					
SPA	eP		22	24	27
	e			24	35
May 31					
BYR	eP		01	14	38
SPA	eP		01	15	30
May 31					
BYR	iP		02	48	10
	e			48	38
	e			48	50
SPA	eP		02	49	03
	e			49	10
	e			49	28
	e			49	42
May 31					
BYR	eP		04	41	36
	e			41	38
SPA	eP		04	42	27

Date and Station	Phase	(GCT)	h	m	s
May 31					
BYR	eP		05	03	37
SPA	eP		05	03	55
	e			04	05
	e			04	32
May 31					
BYR	eP		06	55	39
May 31					
BYR	eP		07	41	09
SPA	eP		07	41	59
May 31					
BYR	eP		09	39	12
May 31					
SPA	eP		10	54	24
May 31					
BYR	eP		11	16	14
	ePKKP			32	30
SPA	eP		11	16	38
	eP'			20	16
	ePP			20	50
	e			21	02
May 31					
BYR	eP		12	14	37
May 31					
BYR	iP		13	23	25
SPA	iP		13	23	30
	e			23	44
May 31					
BYR	eP		15	19	09
May 31					
BYR	eP		16	27	48
	e			27	57
SPA	eP		16	28	40
	e			28	45
May 31					
SPA	eP		17	50	11
	e			57	00
May 31					
SPA	eP		18	19	12
May 31					
BYR	eP		18	45	04
SPA	eP		18	45	27
	e			45	37
	e			45	43
May 31					
BYR	e(P)		19	09	36
SPA	eP		19	10	37
	e			10	45

Date and Station	Phase	(GCT)	h	m	s
May 31					
BYR	eP		20	11	27
SPA	eP		20	12	19
	e			12	26
May 31					
SPA	eP		20	24	48
	e			24	55
May 31					
BYR	eP		21	12	48
	epP			14	53
SPA	eP		21	12	16
	e			12	29
	epP			14	20
	eSKS			21	38
May 31					
BYR	eP		21	55	01
SPA	eP		21	55	53
	e			56	00
May 31					
SPA	eP		23	02	38
May 31					
SPA	eP		23	35	38
Jun. 1					
BYR	eP		01	43	29
Jun. 1					
BYR	eP		02	25	16
Jun. 1					
BYR	eP		04	15	57
SPA	eP		04	16	47
Jun. 1					
BYR	e(P)		04	50	10
SPA	eP		04	50	59
	e			51	08
Jun. 1					
BYR	eP		05	11	21
SPA	eP		05	12	10
	e			12	28
	e			12	43
	ePcP			13	10
	e			13	48
	eS			19	37
Jun. 1					
BYR	eP		06	47	57
SPA	eP		06	48	46
	e			48	54
Jun. 1					
BYR	e(P)		08	26	46
SPA	eP		08	27	35
	e			27	46

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Date and Station	Phase (GCT)	h	m	s
Jun. 1				
BYR	eP	08	57	45
Jun. 1				
BYR	eP	09	04	10
Jun. 1				
SPA	eP	09	55	05
Jun. 1				
BYR	eP	11	11	31
SPA	eP	11	12	22
	e(PP)		14	26
Jun. 1				
BYR	e(P)	11	33	58
SPA	eP	11	33	41
Jun. 1				
BYR	eP	12	00	06
SPA	eP	12	00	58
	e		01	05
Jun. 1				
SPA	eP	12	06	56
Jun. 1				
BYR	eP	12	20	07
SPA	eP	12	20	57
Jun. 1				
BYR	eP	12	31	30
SPA	eP	12	32	11
	e		32	17
	e		32	30
Jun. 1				
BYR	eP	13	06	53
SPA	eP	13	07	45
	e		07	47
	e		07	53
	e		07	59
Jun. 1				
BYR	e(P)	14	03	47
SPA	eP	14	04	39
	e		04	47
Jun. 1				
BYR	eP	14	14	25
SPA	eP	14	15	18
	e		15	25
	e		16	31
	ePcP		16	51
Jun. 1				
BYR	eP	15	05	35
SPA	eP	15	06	24
	e		06	34

Date and Station	Phase (GCT)	h	m	s
Jun. 1				
SPA	eP	16	31	51
Jun. 1				
SPA	eP	16	49	45
	e		49	54
Jun. 1				
SPA	eP	17	16	15
Jun. 1				
BYR	eP	20	34	44
SPA	eP	20	35	38
Jun. 1				
BYR	eP	20	39	01
SPA	eP	20	39	52
Jun. 1				
BYR	eP	20	43	33
SPA	eP	20	44	23
Jun. 1				
SPA	eP	21	00	37
Jun. 1				
SPA	eP	21	09	41
Jun. 1				
SPA	eP	21	17	50
Jun. 1				
BYR	eP	21	20	43
SPA	eP	21	21	35
	e		21	42
	ePP		23	33
Jun. 1				
BYR	eP	21	30	24
SPA	eP	21	31	18
	e		31	47
Jun. 1				
BYR	e(P)	22	00	09
Jun. 1				
BYR	eP	22	27	07
SPA	eP	22	26	59
Jun. 1				
SPA	eP	22	35	58
Jun. 1				
BYR	eP	22	39	46
SPA	eP	22	40	38
	e		40	44
	e		40	56
Jun. 1				
BYR	iP	23	32	41

Date and Station	Phase (GCT)	h	m	s
SPA	eP	23	33	33
	e		33	39
Jun. 1				
SPA	eP	23	43	20
Jun. 2				
SPA	eP	00	52	11
Jun. 2				
BYR	eP	00	59	38
Jun. 2				
SPA	eP	01	29	23
	e		29	31
Jun. 2				
SPA	eP	01	47	31
Jun. 2				
SPA	e(P')	02	10	39
	e		15	03
Jun. 2				
BYR	eP	02	46	24
SPA	eP	02	47	18
	e		48	04
Jun. 2				
SPA	eP	03	51	55
Jun. 2				
BYR	eP	04	02	53
SPA	eP	04	03	06
	e		03	09
	e		03	23
	e		04	25
Jun. 2				
SPA	eP	04	53	46
Jun. 2				
BYR	eP	05	10	48
SPA	eP	05	11	38
	e		11	43
	e		12	00
Jun. 2				
BYR	e(P)	05	42	48
SPA	eP	05	43	30
	e		43	37
Jun. 2				
BYR	iP	06	05	21
	iPP		06	52
	i(PcP)		07	19
	iS		11	13
	i(SS)		13	59
	iScS		15	52

Date and Station	Phase (GCT)	h	m	s
SPA	eP	06	06	13
	e		06	19
	e		06	27
	e		06	46
	e		07	06
	e		07	28
	ePP		08	04
	e(PPP)		09	00
	e	06	10	37
Jun. 2				
BYR	eP	06	53	20
Jun. 2				
BYR	eP	07	04	32
Jun. 2				
BYR	eP	07	29	43
SPA	eP	07	30	16
	epP		30	50
Jun. 2				
BYR	eP	07	59	47
SPA	eP	07	59	47
	e		59	56
	e	08	00	28
	e		09	08
	ePKKP		17	46
Jun. 2				
BYR	eP	08	44	17
SPA	eP	08	45	07
	e		45	15
	e		45	43
	e		46	04
Jun. 2				
BYR	eP	09	36	33
SPA	eP	09	37	24
	e		37	32
Jun. 2				
BYR	eP	09	40	01
SPA	eP	09	40	54
	e		41	00
	e		41	14
Jun. 2				
BYR	eP	10	50	34
SPA	eP	10	51	22
	e		51	33
Jun. 2				
SPA	eP	12	09	18
Jun. 2				
BYR	eP	12	42	50
Jun. 2				
BYR	eP'	13	01	55

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Date and Station	Phase	(GCT)
		h m s
SPA	eP'	13 01 35
Jun. 2		
BYR	eP	13 38 26
SPA	eP	13 39 18
	e	39 25
	e	39 40
Jun. 2		
BYR	eP	15 07 51
Jun. 2		
BYR	eP	16 59 31
SPA	eP	17 00 23
	e	00 31
	e	00 39
	e	01 37
Jun. 2		
BYR	eP	18 22 20
SPA	eP	18 23 06
	e	23 12
	e	23 28
	e	24 02
Jun. 2		
BYR	iP	19 08 54
SPA	iP	19 09 25
	e	09 36
	ePcP	09 43
	epP	11 18
	e	18 56
	e	19 07
Jun. 2		
SPA	eP	19 58 49
Jun. 2		
BYR	eP	21 39 20
	e	39 51
SPA	eP	21 40 10
	e	40 22
	e	40 41
	ePP	42 11
Jun. 2		
BYR	eP	21 52 38
Jun. 2		
BYR	eP	22 23 01
SPA	eP	22 24 37
	e	24 44
Jun. 2		
SPA	eP	23 32 27
Jun. 3		
SPA	eP	00 24 27
	e	24 34
Jun. 3		
SPA	eP	02 13 14
Jun. 3		
SPA	eP	03 15 32
	e	15 39
	e	16 33
	e	16 40
Jun. 3		
BYR	eP	03 32 05
SPA	eP	03 32 41
	e	32 52
	e	33 01
	e	33 06
Jun. 3		
BYR	eP	05 08 06
Jun. 3		
BYR	eP	07 50 49
Jun. 3		
BYR	eP	10 37 59
Jun. 3		
BYR	iP	13 24 41
Jun. 3		
BYR	iP	13 33 41
Jun. 3		
BYR	eP	14 01 56
Jun. 3		
BYR	eP'	16 37 12
Jun. 3		
BYR	eP	18 25 26
	i	25 33
Jun. 3		
BYR	eP	19 08 53
Jun. 3		
BYR	iP	20 03 45
Jun. 3		
BYR	eP	20 28 38
Jun. 3		
BYR	eP	21 18 06
Jun. 3		
BYR	eP	21 49 26
Jun. 3		
BYR	iP	21 56 49
	i	56 58
Jun. 4		
BYR	eP	01 05 47
Jun. 4		
BYR	eP	02 40 48
Jun. 4		
BYR	iP	03 11 12
Jun. 4		
BYR	eP	06 06 27
Jun. 4		
SPA	eP	06 07 18
Jun. 4		
BYR	e(P)	06 26 42
Jun. 4		
SPA	eP	06 29 06
	e	29 11
	e	29 17
	e	30 29
Jun. 4		
BYR	eP	06 49 55
SPA	eP	06 50 44
Jun. 4		
SPA	eP	07 23 18
Jun. 4		
BYR	eP	07 30 25
Jun. 4		
SPA	eP	07 37 10
	e	37 25
	e	37 36
	e	37 44
Jun. 4		
SPA	eP'	08 29 06
	e	29 11
Jun. 4		
SPA	eP'	08 33 16
Jun. 4		
BYR	eP	09 03 22
SPA	eP	09 04 15
Jun. 4		
BYR	iP	09 43 48
SPA	eP	09 44 41
	e	44 45
Jun. 4		
BYR	e(P')	10 31 07
SPA	e(P')	10 31 58
	e	32 06
	e	32 45
Jun. 4		
SPA	eP	10 52 55
	e	53 22
	e	53 33
	e	55 53
	e	55 56
Jun. 4		
SPA	eP'	11 24 29
	e	24 32
Jun. 4		
BYR	eP	11 40 39
Jun. 4		
SPA	eP	11 41 30
	e	41 38
	e	41 46
	e	42 00
	e	42 06
Jun. 4		
SPA	eP	13 56 02
	e	56 08
Jun. 4		
SPA	eP	17 08 37
Jun. 4		
BYR	e(P)	18 42 07
SPA	eP	18 42 59
Jun. 4		
SPA	eP	18 55 48
Jun. 4		
SPA	eP	19 05 19
Jun. 4		
BYR	eP	19 33 05
Jun. 4		
BYR	eP	21 14 04
Jun. 4		
BYR	eP	22 50 21
Jun. 5		
BYR	e(P)	02 17 34
Jun. 5		
SPA	eP	03 20 22
	e	20 26
Jun. 5		
BYR	eP	03 35 20
SPA	eP	03 36 13
	ePcP	37 50
Jun. 5		
BYR	e(P)	04 59 40
Jun. 5		
BYR	e(P)	05 05 01
SPA	eP	05 05 54
	e	06 01
	e	06 38
Jun. 5		
BYR	eP	05 34 36
SPA	eP	05 35 07
	e	35 12
	e	36 30
Jun. 5		
BYR	e(P)	06 19 55

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Date and Station		Phase	h	m	s
SPA		eP	06	19	35
		e		22	10
		e		23	09
		e		23	18
Jun. 5					
BYR		eP	06	29	15
Jun. 5					
BYR		eP	06	41	21
Jun. 5					
BYR		eP	09	58	47
SPA		eP	09	59	37
Jun. 5					
BYR		eP	11	24	54
Jun. 5					
BYR		eP	12	43	12
Jun. 5					
BYR		e(P)	13	24	47
SPA		eP	13	25	38
Jun. 5					
BYR		eP	13	44	04
SPA		e(P)	13	44	30
		e		45	59
Jun. 5					
BYR		eP	13	48	36
Jun. 5					
BYR		e(P)	14	03	07
SPA		eP	14	03	51
		e		04	01
Jun. 5					
BYR		eP	14	14	14
SPA		eP	14	15	07
		e		15	11
		e		16	48
Jun. 5					
SPA		eP	16	29	12
		e		29	22
Jun. 5					
SPA		eP	18	05	44
Jun. 5					
BYR		e(P)	19	40	02
SPA		eP	19	40	31
		e		40	42
		e		40	53
		e		41	01
		e(PcP)		41	16
		e		41	48
Jun. 5					
SPA		eP	20	02	00

Date and Station		Phase	h	m	s
Jun. 5					
BYR		iP	20	35	27
SPA		eP	20	36	19
		e		36	26
		e(PcP)		37	41
Jun. 5					
SPA		eP	21	16	58
		e		16	06
		e		18	33
Jun. 5					
SPA		eP	22	02	29
Jun. 5					
SPA		eP	22	06	28
Jun. 6					
SPA		eP'	01	37	04
		e		37	12
		ePP		39	30
Jun. 6					
BYR		eP	06	03	06
		e		03	26
SPA		eP	06	03	57
Jun. 6					
BYR		eP	08	21	07
SPA		eP	08	21	59
		e		22	19
		e		31	43
Jun. 6					
BYR		eP	08	30	51
Jun. 6					
BYR		eP	09	01	32
Jun. 6					
SPA		eP	09	07	05
		e		07	14
Jun. 6					
BYR		eP	09	38	34
SPA		eP	09	39	04
		e		39	12
		e		39	46
Jun. 6					
BYR		eP	10	04	30
SPA		eP	10	05	23
Jun. 6					
SPA		eP	10	39	30
Jun. 6					
BYR		eP	11	24	04
SPA		eP	11	24	57
Jun. 6					
BYR		eP	11	47	08

Date and Station		Phase	h	m	s
SPA		eP	11	48	01
		e		48	11
Jun. 6					
SPA		eP	14	28	56
Jun. 6					
BYR		eP	16	04	37
SPA		eP	16	05	29
		e		05	43
Jun. 6					
BYR		eP	16	33	41
SPA		eP	16	34	30
		e		34	36
Jun. 6					
BYR		eP	17	22	56
SPA		eP	17	23	46
		e		24	00
		e		24	19
Jun. 6					
BYR		eP	18	02	23
SPA		eP	18	03	16
Jun. 6					
SPA		eP	19	22	25
Jun. 6					
BYR		eP	19	47	24
SPA		eP	19	48	13
Jun. 6					
BYR		eP	21	20	29
SPA		eP	21	21	23
Jun. 6					
BYR		eP	22	42	04
SPA		eP	22	42	56
		e		43	02
Jun. 6					
SPA		eP	23	40	07
Jun. 7					
BYR		eP	01	19	31
SPA		eP	01	20	21
Jun. 7					
BYR		eP	01	33	51
SPA		eP	01	34	49
Jun. 7					
BYR		e(P)	02	25	56
SPA		eP	02	26	49
		e		26	55
		e		27	10

Date and Station		Phase	h	m	s
Jun. 7					
BYR		eP	02	42	49
SPA		eP	02	43	40
Jun. 7					
SPA		eP	02	47	42
Jun. 7					
BYR		eP	03	42	13
SPA		eP	03	43	05
		e		43	24
Jun. 7					
BYR		eP	05	30	38
SPA		eP	05	31	26
		e		31	32
Jun. 7					
BYR		eP	05	37	37
SPA		iP	05	36	52
		e		37	01
Jun. 7					
BYR		eP	07	11	06
SPA		eP	07	11	40
		ePcP		12	22
Jun. 7					
BYR		eP	07	24	49
Jun. 7					
SPA		eP	09	12	20
		e		19	53
Jun. 7					
SPA		eP	09	47	32
Jun. 7					
SPA		eP	10	56	32
		e		57	22
Jun. 7					
BYR		eP	11	01	30
SPA		eP	11	01	19
		e		01	28
		e		01	49
		ePP		02	43
		e		04	29
Jun. 7					
SPA		eP	11	31	47
Jun. 7					
BYR		eP	11	34	09
SPA		eP	11	35	00
		e		35	24
Jun. 7					
BYR		eP	13	04	02

Date and Station	Phase (GCT)	h	m	s
SPA	eP	13	04	55
	e		05	07
	e		05	27
	e		05	36
	ePcP		06	14
Jun. 7				
SPA	eP	13	13	53
Jun. 7				
BYR	e(P')	13	16	35
	e		20	06
SPA	iP'	13	16	43
	e		16	50
	e		16	52
	e		17	33
	ePP		20	10
	e		28	08
	e		28	27
Jun. 7				
BYR	eP	13	37	44
SPA	eP	13	38	15
	e		38	32
	e		40	01
Jun. 7				
BYR	eP	14	02	08
SPA	eP	14	02	57
Jun. 7				
BYR	iP	14	09	58
SPA	eP	14	10	50
	e		10	57
	e		11	18
	e		11	30
Jun. 7				
BYR	eP	14	54	11
Jun. 7				
BYR	eP	15	48	04
SPA	eP	15	48	53
Jun. 7				
BYR	eP	16	09	46
	e		11	45
Jun. 7				
BYR	eP	16	52	27
SPA	eP	16	53	00
Jun. 7				
BYR	eP	18	46	26
SPA	eP	18	47	16
	e		47	26
Jun. 7				
SPA	eP	20	05	51

Date and Station	Phase (GCT)	h	m	s
Jun. 7				
BYR	e(P)	21	25	43
SPA	eP	21	26	37
Jun. 7				
SPA	eP	23	09	14
	e		09	21
Jun. 8				
SPA	eP	00	40	01
Jun. 8				
BYR	eP	01	58	18
Jun. 8				
BYR	eP	02	27	38
Jun. 8				
BYR	eP	02	59	34
Jun. 8				
BYR	eP	03	11	46
SPA	eP	03	12	38
Jun. 8				
BYR	e(P)	03	51	29
SPA	eP	03	51	52
	e		52	04
Jun. 8				
BYR	eP	05	23	28
SPA	eP	05	23	07
	e		23	43
	i		24	03
	e		24	04
	e		27	31
Jun. 8				
SPA	eP	05	36	00
Jun. 8				
BYR	eP	06	10	37
Jun. 8				
BYR	eP	06	55	39
Jun. 8				
BYR	eP	07	16	20
SPA	eP	07	17	15
Jun. 8				
BYR	eP	07	20	03
SPA	eP	07	20	53
	e		21	26
Jun. 8				
SPA	e(P')	08	50	34
Jun. 8				
BYR	eP	09	39	08
SPA	iP	09	40	01
	e		40	22

Date and Station	Phase (GCT)	h	m	s
Jun. 8				
BYR	eP	09	49	55
SPA	eP	09	50	20
	e		50	26
	e		50	37
Jun. 8				
BYR	eP	10	16	22
SPA	eP	10	17	12
Jun. 8				
BYR	eP	10	29	06
SPA	eP	10	29	57
Jun. 8				
SPA	eP	10	43	39
Jun. 8				
SPA	iP	10	55	48
Jun. 8				
BYR	eP	11	57	40
SPA	eP	11	58	32
Jun. 8				
BYR	iP	13	35	36
SPA	eP	13	36	28
	e		36	35
	e		36	48
Jun. 8				
BYR	e(P)	16	19	39
Jun. 8				
BYR	e(PP)	16	40	31
SPA	eP	16	38	50
	e		39	02
	ePP		40	33
Jun. 8				
SPA	eP	18	01	43
Jun. 8				
BYR	eP	19	12	38
SPA	eP	19	13	12
	e		13	21
Jun. 8				
SPA	eP	19	33	20
Jun. 8				
BYR	eP	19	47	28
Jun. 8				
BYR	e(P)	20	25	19
Jun. 8				
BYR	e(P)	21	25	18
SPA	eP	21	25	26
	e		25	45

Date and Station	Phase (GCT)	h	m	s
Jun. 8				
BYR	eP	21	49	04
SPA	eP	21	49	56
Jun. 8				
BYR	eP	22	00	33
Jun. 8				
BYR	eP	22	50	58
SPA	iP	22	51	27
	e		51	31
Jun. 9				
BYR	eP	00	09	46
Jun. 9				
SPA	eP	00	49	17
Jun. 9				
SPA	eP	02	00	26
Jun. 9				
SPA	eP	02	14	18
	e		15	00
Jun. 9				
BYR	e(P)	02	47	21
Jun. 9				
SPA	eP	04	13	14
	e		13	18
Jun. 9				
SPA	eP	04	20	50
Jun. 9				
BYR	e(P')	04	39	25
SPA	eP'	04	39	45
	e(SKS)		46	47
Jun. 9				
BYR	e(P)	05	16	50
SPA	eP	05	16	43
	e		17	11
	e		17	31
Jun. 9				
BYR	eP	06	27	05
SPA	eP	06	27	57
	e		28	10
Jun. 9				
SPA	eP'	08	43	14
Jun. 9				
BYR	eP	08	52	23
SPA	eP	08	53	12
	e		53	21
Jun. 9				
BYR	eP	09	25	20

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Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s	Jun. 9	h m s		h m s	Jun. 11	h m s
SPA eP	09 25 36	BYR e(P')	18 06 42	SPA eP	12 11 36	BYR e(P)	00 25 26
Jun. 9		SPA eP'	18 06 50	e	11 47		
BYR iP	10 13 17	e	07 13	e	12 14	Jun. 11	
				e(PP)	14 26	BYR eP	00 36 49
SPA eP	10 14 05	Jun. 9					
e	14 17	BYR eP	18 45 25	Jun. 10		SPA eP	00 37 40
				BYR eP	14 21 04		
Jun. 9		Jun. 9				Jun. 11	
BYR eP	11 03 42	BYR e(P)	20 53 37	SPA eP	14 21 58	BYR i(P)	00 45 03
SPA eP	11 04 22	SPA eP	20 54 28	Jun. 10		SPA iP	00 45 28
e	04 44			SPA eP	14 34 03	e	45 35
		Jun. 9		e	34 18	e	45 51
Jun. 9		BYR eP	21 23 08	e	37 59	epP	46 34
BYR eP	11 35 02					eS	54 19
		SPA eP	21 24 00	Jun. 10		e	54 28
SPA eP	11 35 20	e	24 08	BYR eP	14 38 15	e	55 14
e	35 34					eL	58 36
e	35 56	Jun. 9		SPA eP	14 39 05		
e	37 10	BYR eP	21 38 07	e	39 15	Jun. 11	
				e	39 24	SPA eP	04 01 14
Jun. 9		SPA eP	21 38 59	e	39 57		
SPA eP	12 03 49			ePcP	40 16	Jun. 11	
		Jun. 9		eL	51 17	BYR eP	04 05 53
Jun. 9		BYR eP	22 46 45				
BYR eP	12 36 53			Jun. 10		SPA eP	04 06 43
		SPA eP	22 47 27	BYR eP	16 25 12	e	07 05
SPA eP	12 37 23						
e	37 47	Jun. 9		SPA eP	16 26 04	Jun. 11	
		SPA eP	23 31 19	e	27 42	SPA eP	04 38 11
Jun. 9		e	31 32				
BYR e(P)	14 37 19			Jun. 10		Jun. 11	
		Jun. 10		BYR eP	17 17 28	BYR eP	06 10 56
Jun. 9		SPA eP	01 35 48				
BYR eP	14 58 28			Jun. 10		SPA eP	06 11 51
		Jun. 10		BYR e(P)	18 00 49	e	12 09
SPA eP	14 58 09	SPA eP	02 40 08				
				SPA eP	18 01 41	Jun. 11	
Jun. 9		Jun. 10				BYR e(P)	06 25 55
BYR eP	15 22 06	BYR eP	06 53 59	Jun. 10			
				BYR eP	20 05 09	Jun. 11	
SPA eP	15 21 53	SPA eP	06 53 35			SPA eP	06 56 38
e	22 04	e	53 55	SPA eP	20 06 00		
				e	06 08	Jun. 11	
Jun. 9		Jun. 10				SPA eP	07 32 35
BYR eP	15 35 05	BYR eP	07 26 17	Jun. 10			
				BYR eP	20 39 08	Jun. 11	
SPA eP	15 35 56	SPA eP	07 26 39			SPA eP	07 37 42
e	36 09	e	26 59	SPA eP	20 40 04		
				e	40 32	Jun. 11	
		Jun. 10				SPA eP	10 55 22
Jun. 9		BYR eP	09 19 11	Jun. 10			
BYR e(P)	16 00 18			BYR eP	21 23 11	Jun. 11	
		SPA iP	09 19 45			BYR e(P')	12 09 06
Jun. 9		e	19 51	SPA eP	21 23 34		
BYR eP	16 51 46	e	20 12	e	23 45	Jun. 11	
				e	25 49	BYR e(P)	13 37 17
SPA eP	16 52 38	Jun. 10		ePP	26 12		
e	52 46	BYR eP	11 42 51	e(ScS)	33 35	SPA eP	13 36 58
e	53 44						
		SPA eP	11 43 13	Jun. 10		Jun. 11	
Jun. 9		e	43 20	SPA eP	22 12 50	BYR eP	15 26 22
SPA eP	17 32 44					eS	36 40
		Jun. 10		Jun. 10			
		BYR eP	12 11 54	BYR eP	22 52 10	SPA eP	15 26 23
						e	26 46
				SPA eP	22 52 59		

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Date and Station	Phase (GCT)	h m s
Jun. 11		
BYR	eP	16 29 34
SPA	e(P)	16 30 27
	e	30 34
	e	30 57
Jun. 11		
BYR	eP	16 41 44
SPA	e(P)	16 41 46
Jun. 11		
BYR	iP	16 49 54
	eS	17 00 06
SPA	eP	16 49 55
	e	51 16
	ePP	53 04
	e	54 20
Jun. 11		
SPA	eP	17 12 32
	e	16 50
Jun. 11		
BYR	eP	17 20 07
SPA	eP	17 20 08
	e	20 15
Jun. 11		
BYR	eP	17 42 53
	eS	49 44
SPA	eP	17 43 43
	e	43 49
	e	43 59
	eS	51 12
Jun. 11		
BYR	iP	18 29 30
SPA	eP	18 30 21
	e	30 35
	e	30 44
	e	31 07
Jun. 11		
BYR	eP	18 43 51
Jun. 11		
SPA	eP	19 15 11
Jun. 11		
BYR	e(P)	19 39 46
Jun. 11		
BYR	e(P)	20 15 23
SPA	e(P)	20 16 23
Jun. 11		
BYR	e(P)	20 59 39
Jun. 11		
BYR	e(P)	21 01 40

Date and Station	Phase (GCT)	h m s
SPA	e(P)	21 02 36
	e	02 43
Jun. 11		
BYR	eP	21 07 00
SPA	eP	21 07 10
Jun. 11		
SPA	e(P)	21 24 21
Jun. 11		
BYR	e(P)	21 45 23
SPA	eP	21 45 33
Jun. 11		
BYR	e(P)	22 00 43
SPA	eP	22 00 44
	e	00 49
Jun. 11		
SPA	eP	22 38 03
Jun. 11		
SPA	eP	23 10 22
Jun. 11		
SPA	eP	23 11 34
Jun. 11		
SPA	eP	23 45 33
Jun. 12		
BYR	eP	00 11 28
SPA	eP	00 12 17
	e	12 28
	e(PcP)	13 13
Jun. 12		
BYR	e(P)	00 45 49
Jun. 12		
BYR	eP	01 25 18
SPA	eP	01 25 02
Jun. 12		
BYR	eP	03 23 17
Jun. 12		
BYR	iP	04 06 18
SPA	iP	04 06 47
	e	07 02
	e	07 57
	e	08 17
Jun. 12		
BYR	eP	05 01 59
SPA	eP	05 02 50
Jun. 12		
BYR	eP	05 09 40

Date and Station	Phase (GCT)	h m s
SPA	e(P)	05 10 48
Jun. 12		
BYR	eP	05 29 14
Jun. 12		
BYR	eP	07 07 22
SPA	eP	07 07 54
	e	08 04
	e	08 12
	e	08 38
	epP	08 53
	e	09 44
	e(ScP)	12 11
Jun. 12		
BYR	eP	07 13 54
SPA	eP	07 14 46
Jun. 12		
BYR	eP	07 27 56
SPA	eP	07 29 09
	e	29 22
	e	34 37
Jun. 12		
BYR	eP	07 47 12
SPA	eP	07 48 22
Jun. 12		
BYR	eP	10 03 42
SPA	eP	10 04 35
Jun. 12		
SPA	eP	10 07 01
Jun. 12		
BYR	e(P)	10 55 58
SPA	eP	10 56 53
Jun. 12		
BYR	eP	11 39 26
SPA	eP	11 40 16
	e	40 22
Jun. 12		
BYR	eP	12 10 38
Jun. 12		
BYR	iP	15 12 18
SPA	eP	15 13 10
	ePcP	14 29
	ePP	14 55
Jun. 12		
BYR	eP	15 27 00
SPA	eP	15 27 22
Jun. 12		
BYR	eP	15 45 05

Date and Station	Phase (GCT)	h m s
SPA	eP	15 44 20
	e	44 35
	e	48 17
	e	51 31
	e	51 37
Jun. 12		
BYR	eP	16 22 13
SPA	eP	16 23 06
Jun. 12		
SPA	eP	17 53 35
Jun. 12		
SPA	eP	19 00 48
Jun. 12		
BYR	eP	21 11 53
SPA	eP	21 12 47
	e	13 09
	e	13 47
	ePP	14 34
Jun. 12		
SPA	eP	22 28 22
Jun. 12		
SPA	e(P)	22 50 22
Jun. 12		
BYR	eP	22 57 32
SPA	eP	22 58 25
	e	58 34
Jun. 13		
BYR	eP	00 40 08
Jun. 13		
BYR	e(P)	01 13 10
Jun. 13		
BYR	eP	02 09 17
SPA	eP	02 10 06
Jun. 13		
SPA	eP	02 55 19
Jun. 13		
SPA	eP	03 29 52
Jun. 13		
SPA	eP	03 33 08
Jun. 13		
SPA	eP	03 57 05
Jun. 13		
SPA	eP	04 26 12
Jun. 13		
SPA	eP	04 31 05
Jun. 13		
BYR	eP	04 39 36

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Date and Station	Phase (GCT)	h m s
Jun. 13		
SPA	eP	04 48 47
Jun. 13		
BYR	eP	05 54 33
SPA	eP	05 55 28
	e	55 42
	ePcP	56 34
Jun. 13		
BYR	e(P)	06 57 04
Jun. 13		
BYR	e(P)	07 09 50
Jun. 13		
SPA	eP	07 15 53
Jun. 13		
BYR	eP	07 35 34
SPA	eP	07 36 11
Jun. 13		
BYR	eP	07 53 01
SPA	eP	07 53 52
Jun. 13		
BYR	e(P)	08 53 57
SPA	eP	08 53 57
Jun. 13		
BYR	eP	09 52 14
SPA	eP	09 52 34
	e	52 46
Jun. 13		
SPA	eP	09 57 03
Jun. 13		
BYR	e(P)	10 57 43
Jun. 13		
BYR	e(P)	11 00 44
Jun. 13		
SPA	eP	11 19 54
Jun. 13		
BYR	eP	12 01 17
SPA	e(P)	12 02 11
	e	02 34
	e	02 54
Jun. 13		
BYR	eP	12 06 10
SPA	eP	12 05 52
Jun. 13		
BYR	eP	12 15 47
Jun. 13		
BYR	iP	12 43 06

Date and Station	Phase (GCT)	h m s
SPA	eP	12 43 58
Jun. 13		
BYR	e(P)	12 57 29
Jun. 13		
BYR	eP	13 52 06
SPA	eP	13 52 55
	e	53 19
Jun. 13		
BYR	eP	14 31 36
Jun. 13		
BYR	eP	14 45 35
SPA	e(P)	14 46 30
Jun. 13		
SPA	eP	16 11 53
Jun. 13		
SPA	eP	16 55 42
Jun. 13		
SPA	eP	17 15 29
	e	16 02
	e	16 15
Jun. 13		
SPA	eP	17 35 06
Jun. 13		
SPA	eP	19 17 30
Jun. 13		
BYR	eP	19 33 58
SPA	eP	19 34 55
Jun. 13		
BYR	e(P)	21 19 07
Jun. 13		
BYR	eP	22 21 49
Jun. 13		
SPA	eP	22 39 04
Jun. 13		
BYR	eP	23 11 13
SPA	eP	23 12 04
	e	12 14
Jun. 13		
SPA	eP	23 16 34
Jun. 13		
SPA	eP	23 20 14
	e	20 23
Jun. 13		
SPA	eP	23 22 41
	e	23 27
	e	23 41

Date and Station	Phase (GCT)	h m s
Jun. 13		
BYR	iP	23 39 38
SPA	eP	23 40 29
	e	40 45
	e	41 14
	ePcP	41 50
Jun. 14		
BYR	eP	00 52 59
SPA	eP	00 53 50
Jun. 14		
SPA	eP	01 16 22
Jun. 14		
SPA	eP	02 01 36
Jun. 14		
SPA	eP	02 04 55
Jun. 14		
BYR	eP	03 01 58
	e	02 11
SPA	eP	03 02 53
	e	03 02
	e	03 39
Jun. 14		
BYR	eP'	04 32 30
SPA	eP'	04 32 30
Jun. 14		
BYR	e(P')	04 46 16
Jun. 14		
SPA	eP	04 55 36
	e	05 03 27
Jun. 14		
BYR	e(P)	05 43 34
Jun. 14		
BYR	eP	07 43 04
SPA	eP	07 43 58
Jun. 14		
BYR	eP	07 50 43
SPA	eP	07 51 34
Jun. 14		
SPA	eP	07 56 50
Jun. 14		
BYR	eP	08 24 51
SPA	eP	08 25 43
Jun. 14		
BYR	eP	09 54 55
SPA	eP	09 55 48
	e	59 36

Date and Station	Phase (GCT)	h m s
Jun. 14		
BYR	e(P)	09 58 41
Jun. 14		
SPA	iP	11 15 23
Jun. 14		
BYR	e(P')	11 26 10
Jun. 14		
BYR	iP	11 54 26
SPA	eP	11 55 07
	e	55 13
	e(PcP)	56 00
Jun. 14		
BYR	e(P)	12 06 04
Jun. 14		
BYR	eP	13 30 50
SPA	eP	13 31 39
	e	31 49
Jun. 14		
BYR	eP	14 03 32
SPA	eP	14 04 24
Jun. 14		
BYR	e(P)	14 47 46
SPA	eP	14 47 50
	e	48 16
Jun. 14		
SPA	eP	15 26 26
Jun. 14		
SPA	eP	17 30 21
Jun. 14		
SPA	eP	19 06 03
Jun. 14		
BYR	eP	19 30 21
SPA	eP	19 31 16
	e	31 28
	e	31 50
Jun. 14		
SPA	eP	19 42 51
	e	43 19
	e	43 48
Jun. 14		
BYR	eP	20 40 24
SPA	eP	20 41 17
Jun. 14		
BYR	eP	22 02 09
SPA	eP	22 02 10

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Date and Station	Phase (GCT)	h	m	s
Jun. 14				
SPA	eP	23	33	41
	e		34	08
Jun. 14				
BYR	eP	23	50	26
SPA	eP	23	50	28
	e		50	48
	e		51	02
Jun. 15				
BYR	eP	00	19	14
SPA	eP	00	20	05
Jun. 15				
BYR	e(P)	01	16	36
SPA	eP	01	17	20
Jun. 15				
SPA	eP	01	40	26
Jun. 15				
BYR	eP	01	47	57
Jun. 15				
SPA	eP	02	19	45
	e		20	26
Jun. 15				
SPA	eP	02	24	06
	e		24	11
Jun. 15				
BYR	eP	02	27	52
SPA	eP	02	28	22
Jun. 15				
SPA	eP	02	36	57
	e		37	50
Jun. 15				
SPA	eP	03	03	52
Jun. 15				
SPA	eP	04	49	26
Jun. 15				
SPA	eP	07	04	21
	e		04	23
Jun. 15				
SPA	eP	07	50	39
	e		50	46
Jun. 15				
BYR	e(P)	08	12	34
SPA	eP	08	13	26
	e		13	47
Jun. 15				
SPA	eP	08	21	31
Jun. 15				
SPA	eP	08	43	17

Date and Station	Phase (GCT)	h	m	s
Jun. 15				
SPA	eP	08	58	22
Jun. 15				
BYR	eP	09	47	55
SPA	eP	09	48	51
	e		48	58
	e		49	26
	e		49	51
Jun. 15				
BYR	eP	10	57	44
SPA	eP	10	58	36
Jun. 15				
SPA	eP	11	11	48
Jun. 15				
BYR	eP	11	25	46
SPA	eP	11	26	38
	e		27	14
	e		35	22
Jun. 15				
SPA	eP	12	08	57
Jun. 15				
SPA	eP	12	12	46
Jun. 15				
SPA	eP	13	52	27
Jun. 15				
SPA	eP	14	14	36
	e		16	02
Jun. 15				
BYR	eP	14	53	42
SPA	eP	14	54	32
Jun. 15				
BYR	eP	15	06	47
SPA	eP	15	07	38
	e		07	49
Jun. 15				
BYR	e(P)	15	54	54
	e		55	58
SPA	eP	15	55	44
	e		55	59
	e		56	16
	ePP		58	27
	e	16	08	27
Jun. 15				
BYR	eP	19	01	00
SPA	eP	19	01	56
Jun. 15				
BYR	eP	19	40	53
	e		46	49

Date and Station	Phase (GCT)	h	m	s
SPA	iP	19	40	38
	e		40	47
	e		40	58
	e		43	12
	e		46	42
	e		48	18
Jun. 15				
SPA	eP	21	08	42
Jun. 15				
BYR	eP	22	59	02
SPA	eP	22	59	36
	e		59	47
	e		59	53
	e	23	00	10
	ePcP		00	37
	e(PP)		01	40
Jun. 15				
BYR	eP	23	04	04
SPA	eP	23	04	04
Jun. 15				
BYR	eP	23	40	46
SPA	eP	23	40	41
	e		41	19
Jun. 16				
SPA	eP	00	04	26
	e		10	46
Jun. 16				
SPA	eP	00	35	52
Jun. 16				
SPA	eP	01	01	14
Jun. 16				
SPA	eP	01	48	08
	e		48	20
Jun. 16				
SPA	eP	01	53	30
Jun. 16				
SPA	eP	02	23	00
Jun. 16				
SPA	eP	02	48	45
	e		48	52
Jun. 16				
BYR	eP	03	14	54
SPA	eP	03	13	44
	e		14	19
Jun. 16				
SPA	eP	03	42	05
Jun. 16				
SPA	eP	04	09	17
	e		09	27

Date and Station	Phase (GCT)	h	m	s
Jun. 16				
BYR	eP	04	11	08
SPA	eP	04	11	58
	e		12	11
	e		12	23
	e(PP)		13	46
Jun. 16				
SPA	eP	04	43	45
Jun. 16				
SPA	eP	05	53	18
Jun. 16				
BYR	eP	06	45	48
SPA	eP	06	46	41
	e		47	28
	e		48	08
Jun. 16				
SPA	eP	07	22	27
	e		24	19
Jun. 16				
SPA	eP	08	13	22
	e		13	32
Jun. 16				
SPA	eP	08	35	56
	e		36	16
Jun. 16				
SPA	eP	08	57	24
Jun. 16				
SPA	eP	09	12	42
Jun. 16				
BYR	eP	09	14	11
SPA	eP	09	14	41
	e		14	56
	e		15	09
	e		32	39
Jun. 16				
SPA	eP	10	32	55
	e		33	52
	e		34	05
	e		38	04
Jun. 16				
SPA	eP	10	56	55
Jun. 16				
SPA	eP	11	02	12
Jun. 16				
SPA	eP	11	47	24
Jun. 16				
SPA	eP	12	08	17
	e		08	20
Jun. 16				
SPA	eP	14	42	55

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Date and Station	Phase	(GCT)
		h m s
Jun. 16		
SPA	eP	15 48 04
Jun. 16		
BYR	eP	16 25 23
SPA	eP	16 26 12
	e	27 10
Jun. 16		
SPA	eP	17 16 22
	e	23 05
Jun. 16		
SPA	eP	19 11 55
Jun. 16		
SPA	eP	21 25 39
	e	28 23
	e	34 38
Jun. 16		
BYR	eP	22 43 01
SPA	eP	22 43 54
	e	46 50
	e	47 32
	e	50 31
Jun. 17		
BYR	e(P)	00 27 13
SPA	eP	00 28 05
	e	28 13
Jun. 17		
SPA	eP	02 00 13
Jun. 17		
BYR	eP	02 55 00
SPA	eP	02 55 30
	e	55 34
	e	55 45
Jun. 17		
SPA	eP	03 20 09
	e	23 14
Jun. 17		
SPA	eP	04 04 04
Jun. 17		
BYR	iP	05 12 33
SPA	eP	05 13 03
	e	13 07
	e	13 18
	epP	15 01
Jun. 17		
SPA	eP	06 21 04
	e	21 08
	e	21 19
Jun. 17		
SPA	eP	08 58 04

Date and Station	Phase	(GCT)
		h m s
Jun. 17		
BYR	eP	10 47 06
SPA	eP	10 46 36
	e	46 57
Jun. 17		
SPA	eP	10 50 40
	e	51 31
Jun. 17		
SPA	eP	11 06 06
Jun. 17		
BYR	e(P)	11 28 17
Jun. 17		
SPA	eP	12 13 45
	e	14 02
Jun. 17		
SPA	eP	13 02 35
Jun. 17		
SPA	eP	13 07 35
Jun. 17		
SPA	eP	13 50 24
Jun. 17		
SPA	eP	14 04 04
Jun. 17		
SPA	eP	14 45 44
Jun. 17		
BYR	eP	14 55 02
SPA	eP	14 55 35
	epP	56 49
	esP	57 32
Jun. 17		
SPA	eP	16 29 51
Jun. 17		
BYR	eP'	16 54 49
	eSKP	58 22
SPA	eP'	16 54 51
	e	55 00
	e	55 16
	e	55 38
	e	59 26
	e	17 06 41
Jun. 17		
SPA	eP'	17 18 54
Jun. 17		
SPA	eP'	17 35 48
	e	36 03
Jun. 17		
BYR	eP	17 52 16

Date and Station	Phase	(GCT)
		h m s
SPA	eP	17 51 56
	e	52 17
	e	52 41
	eL	18 02 07
Jun. 17		
BYR	eP	18 10 11
SPA	eP	18 11 01
Jun. 17		
SPA	eP	18 51 34
	e	52 20
Jun. 17		
SPA	eP	19 13 12
	e	13 43
Jun. 17		
SPA	eP	19 20 59
Jun. 17		
SPA	eP'	20 55 50
Jun. 17		
SPA	eP	21 12 06
Jun. 17		
SPA	eP	22 06 58
Jun. 17		
BYR	eP	23 16 08
SPA	eP	23 15 32
Jun. 18		
BYR	e(P)	01 15 58
Jun. 18		
SPA	eP	02 04 11
Jun. 18		
SPA	eP	02 20 16
Jun. 18		
SPA	eP'	02 23 07
	e	23 09
Jun. 18		
BYR	eP	02 42 01
SPA	eP	02 42 36
	e	42 59
Jun. 18		
BYR	eP	03 11 52
SPA	eP	03 12 51
Jun. 18		
BYR	eP	03 31 21
SPA	eP	03 31 22
	e	33 16
	e	34 07
Jun. 18		
SPA	eP	08 19 27

Date and Station	Phase	(GCT)
		h m s
Jun. 18		
SPA	eP	09 34 01
Jun. 18		
SPA	eP	10 01 30
Jun. 18		
BYR	e(P)	11 42 46
Jun. 18		
BYR	e(P)	12 44 09
Jun. 18		
SPA	eP	13 50 17
Jun. 18		
SPA	eP	14 05 11
Jun. 18		
BYR	eP	14 24 22
SPA	eP	14 25 11
	e	25 24
Jun. 18		
BYR	e(P)	14 43 20
SPA	eP	14 42 23
Jun. 18		
BYR	eP	19 11 18
SPA	eP	19 12 10
	e	12 17
	e	13 43
Jun. 18		
SPA	eP	19 27 51
	e	28 06
Jun. 18		
BYR	eP	19 38 13
SPA	eP	19 39 05
Jun. 18		
SPA	eP	20 52 48
	e	53 09
Jun. 18		
SPA	eP	21 52 20
Jun. 18		
SPA	eP	22 19 54
	e	20 50
Jun. 18		
SPA	eP	22 51 00
	e(PcP)	51 50
Jun. 18		
SPA	eP	23 17 04
	e	17 25
Jun. 18		
BYR	e(P)	23 46 09
SPA	eP	23 45 06
	e	45 18

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Date and Station	Phase (GCT)	h	m	s
Jun. 18				
BYR	eP	23	50	23
Jun. 19				
BYR	eP	00	47	03
SPA	eP	00	47	56
	e		48	03
Jun. 19				
BYR	eP	01	25	58
SPA	eP	01	26	50
	e		26	56
Jun. 19				
BYR	eP	01	28	21
Jun. 19				
SPA	eP	01	33	38
Jun. 19				
BYR	eP	01	45	58
SPA	eP	01	46	37
Jun. 19				
BYR	e(P')	02	16	15
SPA	e(PP)	02	19	18
	e(SKP)		20	52
Jun. 19				
SPA	eP	02	38	05
	e		38	53
	e		39	29
Jun. 19				
BYR	eP	02	47	44
SPA	eP	02	48	35
	e		48	50
	e		49	03
Jun. 19				
SPA	eP	03	12	14
	e		12	23
Jun. 19				
SPA	eP	04	54	52
Jun. 19				
BYR	eP	05	33	09
SPA	eP	05	34	01
	e		34	10
	ePcP		35	25
Jun. 19				
BYR	e(P)	06	10	51
SPA	eP	06	11	43
Jun. 19				
SPA	eP	07	21	44
Jun. 19				
SPA	eP'	08	11	32

Date and Station	Phase (GCT)	h	m	s
Jun. 19				
BYR	eP	08	43	50
SPA	eP	08	44	19
Jun. 19				
BYR	eP	09	48	36
SPA	eP	09	49	26
	e		49	34
Jun. 19				
BYR	eP	09	55	40
SPA	eP	09	55	49
Jun. 19				
SPA	eP	10	26	09
Jun. 19				
BYR	eP	12	21	26
SPA	eP	12	22	17
	e		22	33
Jun. 19				
BYR	iP	12	32	18
SPA	iP	12	32	46
	ePcP		33	02
	epP		34	24
Jun. 19				
BYR	eP'	12	53	54
SPA	eP'	12	53	55
Jun. 19				
BYR	eP	12	59	50
SPA	eP	13	00	41
Jun. 19				
BYR	eP	13	11	45
SPA	iP	13	12	18
Jun. 19				
SPA	eP	13	17	53
	e		18	49
	e		24	51
	e		25	23
Jun. 19				
BYR	e(P)	13	31	50
Jun. 19				
BYR	eP	15	28	45
Jun. 19				
BYR	eP	15	52	29
SPA	eP	15	53	18
	e		53	31
Jun. 19				
BYR	eP	16	13	57

Date and Station	Phase (GCT)	h	m	s
Jun. 19				
BYR	eP'	17	36	18
SPA	eP'	17	36	13
	ePP		37	20
	e		40	30
Jun. 19				
BYR	eP	19	48	18
Jun. 19				
SPA	eP	20	48	03
Jun. 19				
SPA	eP	21	52	11
	e		52	16
Jun. 19				
SPA	eP	23	07	35
	e		18	22
	e		18	34
Jun. 19				
SPA	eP	23	26	08
Jun. 19				
BYR	eP	23	51	14
Jun. 20				
BYR	eP	01	19	44
Jun. 20				
SPA	eP	02	00	20
	e		02	27
Jun. 20				
BYR	iP	02	09	31
	i(PP)		11	17
	iS		15	18
	iL		18	22
Jun. 20				
BYR	eP	03	34	37
Jun. 20				
SPA	eP	03	37	17
Jun. 20				
SPA	eP	04	55	17
	e	05	01	11
Jun. 20				
BYR	eP	05	00	14
Jun. 20				
BYR	e(P)	05	13	43
SPA	eP	05	14	33
Jun. 20				
SPA	eP	05	34	17
	e		42	06
	e		42	35
Jun. 20				
BYR	eP	06	25	42
SPA	eP	06	26	30

Date and Station	Phase (GCT)	h	m	s
Jun. 20				
BYR	eP	07	23	32
SPA	eP	07	24	22
	e		24	30
Jun. 20				
BYR	eP	08	00	07
SPA	eP	07	59	52
	e	08	00	17
	e		01	20
Jun. 20				
BYR	eP	09	26	36
SPA	eP	09	27	26
	e		27	47
Jun. 20				
SPA	eP	09	35	48
Jun. 20				
BYR	eP	12	02	57
SPA	eP	12	03	59
Jun. 20				
BYR	eP	12	18	15
SPA	eP	12	17	56
Jun. 20				
BYR	iP	13	07	56
	iS		14	36
	iL		17	57
SPA	iP	13	08	47
	e		12	20
	eS		15	59
	e		16	31
Jun. 20				
BYR	eP	13	26	42
SPA	eP	13	27	34
Jun. 20				
BYR	eP	13	32	24
SPA	eP	13	33	13
Jun. 20				
BYR	eP	14	31	27
SPA	eP	14	32	21
Jun. 20				
BYR	eP	15	20	27
SPA	eP	15	21	18
	e		21	26
Jun. 20				
BYR	eP	15	33	27
SPA	eP	15	34	39

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Date and Station	Phase (GCT)	h m s
Jun. 20		
BYR	eP	17 07 55
SPA	eP	17 08 45
	e	08 52
	ePcP	09 47
	eS	16 09
	e	16 32
Jun. 20		
BYR	eP'	18 05 41
Jun. 20		
SPA	eP	18 15 48
Jun. 20		
SPA	eP	18 47 41
Jun. 20		
BYR	eP	18 57 04
SPA	eP	18 57 57
Jun. 20		
SPA	eP	21 31 54
Jun. 20		
BYR	eP	22 16 46
SPA	eP	22 17 36
	e	17 53
Jun. 20		
BYR	eP	23 13 53
SPA	eP	23 14 49
Jun. 20		
BYR	eP'	23 15 55
SPA	eP'	23 15 53
Jun. 20		
BYR	eP	23 29 31
SPA	eP	23 30 28
Jun. 20		
SPA	eP	23 51 58
Jun. 21		
SPA	eP	00 11 53
Jun. 21		
SPA	eP	00 30 49
Jun. 21		
BYR	e(P)	02 05 56
Jun. 21		
BYR	e(P)	02 20 03
Jun. 21		
BYR	eP	03 47 19
SPA	eP	03 47 04

Date and Station	Phase (GCT)	h m s
Jun. 21		
BYR	eP	06 18 32
Jun. 21		
BYR	eP	06 41 11
SPA	eP	06 42 12
	e	42 17
	ePcP	43 30
Jun. 21		
BYR	eP	06 48 28
Jun. 21		
SPA	eP	07 35 42
Jun. 21		
BYR	eP	08 11 08
SPA	eP	08 11 59
Jun. 21		
BYR	eP	08 46 28
SPA	eP	08 47 20
Jun. 21		
SPA	eP	11 01 17
Jun. 21		
SPA	eP	11 04 58
Jun. 21		
BYR	e(P)	12 00 06
Jun. 21		
SPA	eP	12 09 20
Jun. 21		
SPA	eP	12 54 14
Jun. 21		
BYR	eP	12 57 11
SPA	eP	12 56 52
	e	57 36
Jun. 21		
BYR	eP	13 15 16
Jun. 21		
BYR	eP	13 55 11
SPA	eP	13 56 03
	e	57 36
Jun. 21		
BYR	eP	14 18 09
SPA	eP	14 18 49
	e	19 12
Jun. 21		
BYR	eP	17 05 03
SPA	eP	17 04 38
Jun. 21		
BYR	e(P)	17 39 00

Date and Station	Phase (GCT)	h m s
Jun. 21		
BYR	eP	18 04 28
Jun. 21		
SPA	eP	18 19 59
	e	20 17
	epP	21 27
Jun. 21		
BYR	eP	21 40 20
SPA	eP	21 39 53
	e	41 17
	e	42 05
Jun. 21		
SPA	eP	22 42 53
Jun. 21		
SPA	eP	23 14 01
Jun. 21		
BYR	eP	23 22 29
SPA	eP	23 23 03
	e	23 16
Jun. 21		
SPA	eP	23 56 54
	e	57 00
Jun. 22		
SPA	eP	00 44 15
	e	44 30
Jun. 22		
BYR	eP	01 07 33
SPA	eP	01 07 17
Jun. 22		
SPA	eP	01 28 09
Jun. 22		
SPA	eP	01 45 56
Jun. 22		
BYR	eP	02 36 58
SPA	eP	02 37 32
	e	37 38
	ePcP	38 23
	e	38 35
Jun. 22		
BYR	eP	03 04 27
SPA	eP	03 04 20
	e	04 59
Jun. 22		
SPA	eP	03 25 40
Jun. 22		
SPA	iP	04 10 53
Jun. 22		
BYR	eP	04 28 01
SPA	eP	04 28 52
	e	29 00
	ePcP	30 21

Date and Station	Phase (GCT)	h m s
Jun. 22		
SPA	eP	04 31 28
Jun. 22		
BYR	eP	05 15 22
SPA	eP	05 16 14
Jun. 22		
BYR	iP	06 48 24
SPA	iP	06 49 13
	epP	50 28
	eL	07 01 02
Jun. 22		
BYR	iP	08 19 22
SPA	eP	08 20 15
	e	20 20
	e	20 31
Jun. 22		
BYR	eP	09 05 54
SPA	eP	09 06 42
	e	07 03
Jun. 22		
BYR	eP	09 43 44
SPA	eP	09 44 41
	e	44 48
	e	46 19
Jun. 22		
SPA	eP	10 25 44
Jun. 22		
SPA	eP	10 57 18
Jun. 22		
BYR	e(P)	15 41 05
Jun. 22		
SPA	eP	16 25 27
	e	26 00
	e(PP)	29 32
Jun. 22		
BYR	eP	16 37 15
Jun. 22		
BYR	e(P)	17 43 02
SPA	iP	17 43 32
	e	43 37
Jun. 22		
BYR	e(P)	18 59 45
SPA	eP	19 00 33
Jun. 22		
BYR	iP	20 21 39
SPA	eP	20 22 28
	e	22 34
	e	23 12

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Date and Station	Phase (GCT)	h m s
Jun. 22		
BYR	e(P)	21 42 27
SPA	eP	21 43 23
	e	43 46
Jun. 22		
BYR	e(P)	21 52 31
SPA	eP	21 52 22
Jun. 22		
BYR	eP	21 55 14
SPA	eP	21 56 03
	e	56 09
Jun. 22		
SPA	eP	22 25 22
Jun. 22		
SPA	eP	23 17 13
Jun. 22		
BYR	eP	23 30 27
SPA	eP	23 31 18
Jun. 22		
BYR	e(P')	23 48 04
Jun. 22		
SPA	eP	23 51 20
	e	59 39
Jun. 23		
SPA	eP	00 29 35
	e	30 39
Jun. 23		
SPA	eP	00 36 18
	e	37 16
Jun. 23		
BYR	e(P)	00 46 28
Jun. 23		
SPA	eP	02 28 33
Jun. 23		
SPA	eP	04 17 25
Jun. 23		
SPA	eP	04 20 36
Jun. 23		
SPA	eP	04 23 00
Jun. 23		
BYR	eP	04 28 19
SPA	eP	04 29 02
	e	29 11
Jun. 23		
SPA	eP	05 33 11
	e	33 19
	e	33 27
	e	34 06

Date and Station	Phase (GCT)	h m s
Jun. 23		
BYR	e(P)	06 25 44
SPA	eP	06 26 36
	e	26 43
Jun. 23		
SPA	eP	07 13 22
Jun. 23		
SPA	eP	10 03 06
Jun. 23		
SPA	eP	12 18 02
Jun. 23		
BYR	iP	12 20 59
SPA	iP	12 20 39
	e	21 01
Jun. 23		
SPA	eP	12 38 49
Jun. 23		
SPA	eP	13 32 46
Jun. 23		
SPA	eP	14 01 25
Jun. 23		
SPA	eP	16 51 16
Jun. 23		
SPA	eP'	19 42 38
	e	42 53
Jun. 23		
SPA	eP	20 20 41
	e	22 25
Jun. 23		
SPA	eP	20 49 56
Jun. 23		
SPA	eP	21 24 32
Jun. 23		
SPA	eP	21 41 58
Jun. 23		
SPA	eP'	23 50 24
Jun. 23		
SPA	eP	23 58 45
Jun. 24		
SPA	eP	00 06 15
Jun. 24		
SPA	eP	02 15 58
Jun. 24		
SPA	eP	02 17 01
Jun. 24		
SPA	eP	03 18 06
Jun. 24		
SPA	eP'	04 11 45

Date and Station	Phase (GCT)	h m s
Jun. 24		
SPA	eP	07 31 54
Jun. 24		
SPA	eP	08 07 00
	e	09 48
Jun. 24		
SPA	eP	09 20 36
	e	20 44
Jun. 24		
SPA	eP	11 03 51
	e	04 00
	e	07 13
Jun. 24		
SPA	eP	11 08 39
Jun. 24		
SPA	eP	12 53 52
	e	54 11
Jun. 24		
SPA	eP	13 57 27
Jun. 24		
SPA	eP	14 11 12
Jun. 24		
BYR	eP	15 38 52
SPA	eP	15 39 11
	e(pP)	39 22
	e	40 07
Jun. 24		
SPA	eP	15 57 07
	e	16 07 27
Jun. 24		
BYR	e(P)	16 31 48
Jun. 24		
BYR	eP	18 03 36
SPA	eP	18 04 26
	e	04 59
Jun. 24		
BYR	eP	20 41 58
SPA	eP	20 42 48
Jun. 24		
SPA	eP	22 41 53
Jun. 24		
BYR	eP	22 44 17
SPA	eP	22 44 53
	e	45 02
	e	46 36
Jun. 24		
BYR	eP	22 58 56
SPA	eP	22 59 46

Date and Station	Phase (GCT)	h m s
Jun. 24		
SPA	eP	23 11 20
	e	12 01
Jun. 25		
BYR	eP	00 13 31
SPA	eP	00 13 02
	e	13 39
Jun. 25		
SPA	eP	00 18 17
Jun. 25		
SPA	eP	00 38 45
	e	50 35
Jun. 25		
BYR	eP	02 12 12
SPA	eP	02 12 46
	e	12 54
	e(PcP)	13 50
	eP'P'	42 13
Jun. 25		
SPA	eP	03 13 13
Jun. 25		
SPA	eP	04 19 59
	e	20 08
Jun. 25		
BYR	eP	04 36 36
SPA	eP	04 37 14
Jun. 25		
SPA	eP	06 33 27
Jun. 25		
BYR	eP	07 23 41
SPA	eP	07 24 31
	e	24 51
Jun. 25		
BYR	eP	08 24 54
SPA	eP	08 25 51
Jun. 25		
BYR	eP	08 31 37
SPA	eP	08 32 29
	e	32 37
Jun. 25		
SPA	eP	09 01 54
Jun. 25		
SPA	eP	13 08 34
	e	13 22
Jun. 25		
BYR	e(P)	13 54 16

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Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s		h m s		h m s		h m s
Jun. 25		Jun. 25					
BYR eP	14 06 39	BYR eP'	20 15 20	SPA eP	06 25 18	SPA eP	19 21 26
ePKKP	24 11						
		SPA eP'	20 15 17	Jun. 26		Jun. 26	
Jun. 25				SPA eP	07 22 19	BYR eP	19 36 53
SPA eP	14 22 10	Jun. 25					
e	22 52	SPA eP	20 26 15	Jun. 26		SPA eP	19 37 43
e	23 29			BYR eSKP	08 30 24	e	48 00
e	23 52	Jun. 25					
		SPA eP	21 07 12	SPA eP'	08 26 57	Jun. 26	
Jun. 25		e	07 20	eSKP	30 27	SPA eP	19 52 30
BYR e(P)	14 32 16			eSKS	33 53		
		Jun. 25				Jun. 26	
Jun. 25		BYR eP	22 45 12	Jun. 26		BYR eP	19 57 58
BYR eP	14 50 44			BYR eP	08 37 18		
		SPA eP	22 46 05			SPA eP	19 58 49
SPA eP	14 51 18	e	46 10	SPA eP	08 38 08		
e	51 27	e	46 40			Jun. 26	
i	51 58	eL	56 26	Jun. 26		SPA eP	22 56 02
ePcP	15 00 23			SPA eP	08 52 48	e	56 30
e	00 33	Jun. 25					
e	02 28	SPA eP	23 29 14	Jun. 26		Jun. 26	
				BYR eP	09 41 46	BYR eP	23 24 20
Jun. 25		Jun. 26					
SPA eP	15 09 02	SPA eP	00 04 20	SPA eP	09 42 37	Jun. 26	
e	14 12	e	04 26	e	42 53	SPA eP	23 36 46
Jun. 25		Jun. 26		Jun. 26		Jun. 27	
BYR e(P)	15 20 15	SPA eP'	00 18 59	SPA eP	09 47 04	BYR eP	00 23 31
SPA eP	15 20 57	Jun. 26		Jun. 26		SPA eP	00 24 24
e	21 30	SPA eP	00 54 08	SPA eP	10 57 24	e	24 42
e	24 14			e	11 01 23		
e	24 26	Jun. 26		e	05 34	Jun. 27	
e	30 10	SPA eP	01 49 38			BYR e(P)	01 30 41
				Jun. 26			
Jun. 25		Jun. 26		SPA eP	12 17 43	Jun. 27	
SPA eP	15 54 06	SPA eP	02 25 24			SPA eP	01 59 16
		e	25 54	Jun. 26			
Jun. 25				BYR eP	13 29 43	Jun. 27	
SPA eP	16 09 33	Jun. 26				BYR eP	03 19 36
		SPA iP	03 40 44	SPA eP	13 30 38		
Jun. 25						Jun. 27	
SPA eP	16 33 23	Jun. 26		Jun. 26		SPA eP	04 25 20
		SPA eP	04 00 07	SPA eP	16 03 50		
Jun. 25		e	00 12			Jun. 27	
SPA eP	17 08 25			Jun. 26		SPA eP	04 51 14
		Jun. 26		SPA eP	16 08 50		
Jun. 25		SPA eP	04 18 37			Jun. 27	
BYR eP	17 35 35			Jun. 26		SPA eP	05 40 08
		Jun. 26		BYR eP	16 15 05		
SPA eP	17 36 25	SPA eP	04 21 24			Jun. 27	
e	36 39	e	21 43	SPA eP	16 15 54	SPA eP	06 01 22
				e	16 04	e	01 39
Jun. 25		Jun. 26					
SPA eP	19 02 44	SPA eP	04 32 50	Jun. 26		Jun. 27	
				BYR iP	17 00 21	BYR eP	06 04 46
Jun. 25		Jun. 26					
BYR eP	19 36 15	SPA eP	04 33 58	SPA eP	16 59 18	SPA eP	06 05 36
SPA eP	19 37 05	Jun. 26		Jun. 26		Jun. 27	
		SPA eP	04 37 46	SPA eP	18 01 26	BYR eP	06 15 52
Jun. 25		e	39 42				
BYR iP	19 45 01	e	40 39	Jun. 26		SPA eP	06 16 54
				SPA eP	18 12 42	ePcP	18 23
SPA iP	19 45 43	Jun. 26		e	12 49		
epP	46 19	SPA eP	04 53 00			Jun. 27	
ePcP	46 44			Jun. 26		BYR e(P)	06 29 52
e	47 05	Jun. 26		BYR eP	19 20 52		
		BYR eP	06 24 26				

International Seismological Centre

Date and Station	Phase (GCT)	h	m	s
Jun. 27				
SPA	eP	06	36	38
Jun. 27				
SPA	eP	07	43	24
Jun. 27				
BYR	e(P)	09	19	18
SPA	eP	09	20	00
	e		20	17
	e		21	18
Jun. 27				
BYR	eP	10	03	50
SPA	eP	10	04	42
Jun. 27				
SPA	eP	10	18	14
Jun. 27				
SPA	eP	10	41	18
	e		42	01
Jun. 27				
BYR	eP	11	21	30
SPA	eP	11	22	24
	e		22	39
Jun. 27				
SPA	eP	11	24	56
Jun. 27				
BYR	eP	11	32	48
SPA	eP	11	33	41
Jun. 27				
BYR	eP	14	00	11
SPA	eP	14	01	06
Jun. 27				
BYR	eP	15	21	26
SPA	eP	15	22	19
	e		22	51
Jun. 27				
BYR	e(P)	15	36	26
Jun. 27				
SPA	eP	16	40	26
Jun. 27				
SPA	eP	16	56	38
	e		56	51
Jun. 27				
BYR	eP	16	59	40
SPA	e(P)	17	00	15
	e		00	19
	e		00	32
	ePcP		01	05
	ePP		02	25

Date and Station	Phase (GCT)	h	m	s
Jun. 27				
BYR	eP	17	08	04
SPA	eP	17	08	38
Jun. 27				
SPA	e(P)	17	28	31
Jun. 27				
BYR	eP	17	43	22
Jun. 27				
SPA	eP	17	58	57
Jun. 27				
BYR	eP	18	12	54
Jun. 27				
SPA	eP	18	30	53
Jun. 27				
SPA	eP	18	43	22
Jun. 27				
SPA	eP	19	16	22
Jun. 27				
SPA	eP	19	19	49
Jun. 27				
SPA	eP	19	43	06
	e		43	17
Jun. 27				
SPA	eP	20	06	43
Jun. 27				
SPA	eP	20	16	38
Jun. 27				
BYR	e(P)	20	59	27
SPA	eP	21	00	18
	e		00	27
Jun. 27				
BYR	eP	21	27	09
SPA	eP	21	28	02
	e		28	09
Jun. 27				
BYR	e(P)	23	01	19
SPA	eP	23	01	54
	e		02	09
Jun. 27				
SPA	eP	23	18	44
Jun. 27				
SPA	eP	23	53	08
	e		53	17
Jun. 28				
SPA	eP	00	04	40
	e		04	54

Date and Station	Phase (GCT)	h	m	s
Jun. 28				
SPA	eP	00	31	15
Jun. 28				
BYR	eP	01	14	23
SPA	iP	01	14	40
Jun. 28				
BYR	eP	01	15	52
SPA	iP	01	16	22
	e		16	39
Jun. 28				
BYR	eP	01	27	22
SPA	eP	01	27	52
Jun. 28				
BYR	e(P)	01	45	46
Jun. 28				
SPA	eP	02	00	00
	e		00	01
	e		00	34
Jun. 28				
BYR	eP	02	58	03
SPA	eP	02	58	44
Jun. 28				
SPA	e(P)	03	11	25
	e		16	32
Jun. 28				
SPA	eP	03	31	18
	e		31	30
	e		31	37
Jun. 28				
BYR	eP	04	07	32
SPA	eP	04	06	20
	e		06	37
Jun. 28				
SPA	eP	05	43	54
Jun. 28				
BYR	eP	06	07	28
Jun. 28				
SPA	eP	07	02	08
Jun. 28				
SPA	eP	07	15	28
Jun. 28				
SPA	eP'	08	39	10
Jun. 28				
SPA	eP	08	51	41
Jun. 28				
SPA	eP	08	56	46
	e		56	51

Date and Station	Phase (GCT)	h	m	s
Jun. 28				
SPA	eP	11	03	00
	e		03	32
Jun. 28				
BYR	e(P)	11	25	08
SPA	eP	11	24	39
Jun. 28				
SPA	eP	13	24	12
Jun. 28				
BYR	e(P)	14	21	52
SPA	eP	14	21	14
	e		21	23
	e		22	07
	e		22	12
	e		22	42
Jun. 28				
BYR	eP	15	37	01
SPA	eP	15	36	30
	e		36	58
	ePP		37	34
Jun. 28				
SPA	eP	16	04	12
	e		04	19
Jun. 28				
BYR	eP	16	17	23
SPA	eP	16	17	53
	e		18	00
Jun. 28				
SPA	eP	16	55	31
	e		55	35
Jun. 28				
SPA	eP	18	13	20
Jun. 28				
SPA	eP	18	40	53
Jun. 28				
SPA	eP	19	03	01
	e		03	24
Jun. 28				
SPA	eP	19	53	01
	e		53	16
Jun. 28				
SPA	eP	20	07	36
Jun. 28				
BYR	eP'	21	22	40
Jun. 28				
BYR	eP	22	19	08
SPA	eP	22	19	37
Jun. 28				
SPA	eP	22	36	54

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Date and Station	Phase (GCT)	h	m	s
Jun. 28				
SPA	eP	23	11	40
	i		11	43
	e		11	58
Jun. 29				
SPA	eP	00	28	09
Jun. 29				
SPA	eP	00	30	58
Jun. 29				
SPA	eP	00	56	48
Jun. 29				
SPA	eP	01	10	35
Jun. 29				
BYR	eP	01	25	18
	e		26	17
SPA	eP	01	26	07
	e		26	14
	ePcP		27	07
	e		27	32
Jun. 29				
BYR	eP	02	04	59
SPA	eP	02	05	52
	e		06	04
	e		06	31
	ePcP		07	34
Jun. 29				
SPA	eP	02	52	11
	e		52	33
	e		52	35
Jun. 29				
SPA	eP	03	36	11
Jun. 29				
SPA	eP	04	08	08
	i		08	14
	e		08	26
	e		08	32
	e		09	08
Jun. 29				
SPA	eP	04	28	23
Jun. 29				
BYR	eP	04	38	49
SPA	eP	04	39	23
	e		39	43
	e(S)		47	14
	eP'P'	05	08	46
Jun. 29				
SPA	eP	05	19	07
Jun. 29				
SPA	eP'	05	32	54
Jun. 29				
SPA	eP	05	38	42

Date and Station	Phase (GCT)	h	m	s
Jun. 29				
SPA	eP	05	57	37
Jun. 29				
BYR	e(P)	06	41	35
Jun. 29				
SPA	eP	06	50	24
Jun. 29				
BYR	eP	06	59	04
SPA	eP	06	59	52
Jun. 29				
SPA	eP	07	43	11
Jun. 29				
SPA	eP	07	56	34
Jun. 29				
BYR	eP	08	35	26
SPA	eP	08	36	16
	e		36	33
Jun. 29				
BYR	eP	09	53	07
SPA	eP	09	54	18
	e		54	38
Jun. 29				
SPA	eP	10	16	52
Jun. 29				
BYR	e(P)	10	31	49
SPA	eP	10	32	50
	e		32	59
Jun. 29				
SPA	eP'	10	42	24
	e		42	33
Jun. 29				
BYR	eP	11	00	36
Jun. 29				
SPA	eP	11	03	55
Jun. 29				
BYR	e(P)	14	10	07
Jun. 29				
SPA	eP	14	36	09
	e		36	19
Jun. 29				
SPA	eP	15	40	49
	e		40	53
Jun. 29				
SPA	eP	16	26	40
Jun. 29				
BYR	eP	17	10	24
SPA	eP	17	10	18

Date and Station	Phase (GCT)	h	m	s
Jun. 29				
BYR	eP'	17	26	12
SPA	eP'	17	26	25
	e		26	51
Jun. 29				
SPA	eP	18	18	56
Jun. 29				
SPA	e(P)	18	29	47
Jun. 29				
BYR	eP	19	06	22
Jun. 29				
SPA	eP	20	57	34
Jun. 29				
BYR	e(P)	22	20	56
Jun. 29				
SPA	eP	23	09	08
	e		09	23
	e		12	03
	e		16	32
Jun. 30				
SPA	eP	00	35	33
	e		35	40
	e		45	22
Jun. 30				
BYR	e(P)	01	14	33
Jun. 30				
BYR	e(P)	01	28	55
SPA	eP	01	29	50
Jun. 30				
SPA	eP	01	54	50
	e		55	00
Jun. 30				
SPA	eP	02	56	21
Jun. 30				
BYR	eP	04	47	14
SPA	eP	04	47	15
	e		49	20
Jun. 30				
BYR	eP	05	48	18
SPA	eP	05	49	10
	e		52	53
Jun. 30				
SPA	eP	05	55	33
Jun. 30				
BYR	eP	06	01	44
SPA	eP	06	02	38
	e		02	45
Jun. 30				
BYR	eP	06	39	27

Date and Station	Phase (GCT)	h	m	s
Jun. 30				
BYR	e(P)	06	47	58
Jun. 30				
BYR	eP	08	38	53
Jun. 30				
SPA	eP	09	13	39
Jun. 30				
BYR	eP	09	50	03
SPA	eP	09	50	31
Jun. 30				
SPA	eP	09	59	48
Jun. 30				
BYR	eP	10	01	55
SPA	iP	10	02	24
Jun. 30				
SPA	eP	10	20	51
Jun. 30				
BYR	eP	11	54	23
SPA	eP	11	55	14
	e		55	23
Jun. 30				
SPA	eP	13	17	58
Jun. 30				
BYR	e(P)	13	34	40
SPA	eP	13	35	29
Jun. 30				
BYR	eP	15	31	55
SPA	eP	15	32	46
Jun. 30				
BYR	eP	15	48	12
SPA	eP	15	49	04
Jun. 30				
BYR	e(P)	16	01	05
Jun. 30				
BYR	e(P)	16	46	30
Jun. 30				
BYR	e(F)	17	52	12
Jun. 30				
BYR	eP	18	05	16
Jun. 30				
BYR	eP'	20	17	57
SPA	eP'	20	18	14
	i		18	22
	e		18	46
	e		19	36
	e(SKP)		22	41

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Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)
Jun. 30		h m s			h m s			h m s			h m s
BYR	e(P)	20 29 14									
SPA	e(P)	20 28 15									
Jun. 30											
SPA	eP	22 23 50									
	e	24 11									
Jun. 30											
SPA	eP	22 58 48									
Jun. 30											
SPA	eP	23 05 02									

International Seismological Centre

SEISMOLOGICAL BULLETIN

SOUTH POLE – BYRD SUPPLEMENT

JULY - SEPTEMBER, 1960

MSI – 235A

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U. S. DEPARTMENT OF COMMERCE

Luther H. Hodges, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

FOR OFFICIAL DISTRIBUTION

International Seismological Centre

SEISMOLOGICAL BULLETIN

SOUTH POLE-BYRD SUPPLEMENT

July-September 1960

The instrumental results tabulated in this supplement are from the following seismographic stations.

Station	Latitude	Longitude	Foundation	Elevation	Instruments	Components	T_o (Sec.)	T_g (Sec.)	Time Scale
South Pole (SPA) In Charge: W.S. Jacobs	90°S.	0°	1995 meters of ice.	2800 meters.	Benioff Paper. Wilson-Lamison (120°E.-60°W.)	Z	1.6	0.5	60mm/min.
					Horizontal Film.		5.6	0.48	15mm/mim.
BYRD (BYR) In Charge: L.E. Davis	80°01'S.	119°31'W.	2570 meters of ice.	1515 meters.	Benioff.	Z	1.2	0.5	60mm/min.
					Wilson-Lamison with G.E. Galvo.	N	6.2	3.5	30mm/min.
					Wilson-Lamison with G.E. Galvo.	E	7.2	3.5	30mm/min.

These stations were first established by the Coast and Geodetic Survey for the IGY to provide additional control for locating teleseismic epicenters in regions inadequately covered by previously existing stations and to provide data for studies in regional seismicity, crustal structure and other pertinent earth science problems.

International Seismological Centre

Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
July 1	h m s	July 1	h m s	July 2	h m s	July 2	h m s
BYR eP	00 09 06	BYR eP	18 05 17	BYR eP'	04 48 48	SPA eP	13 02 23.7
SPA eP	00 08 37.7	SPA eP	18 05 51.5	eSKP	52 38	July 2	
e	08 49.7	e	06 21.2	SPA eP'	04 48 57.1	BYR eP'	13 05 19
July 1		July 1		eSKP	52 13.6	SPA eP'	13 05 09
BYR eP	01 32 40	BYR eP	20 32 05	July 2		July 2	
July 1		July 1		SPA iP	05 07 12.2	SPA eP	15 17 53.5
SPA eP	02 30 12.2	BYR eP	21 11 01	July 2		July 2	
July 1		July 1		SPA eP	05 11 05.0	SPA eP	19 28 12.3
SPA eP	04 38 10.4	BYR eP	21 30 42	July 2		July 2	
e	38 38.4	SPA eP	21 11 20.1	SPA eP	05 12 48.7	BYR e(P)	21 14 51
July 1		July 1		July 2		SPA eP	21 15 41.1
SPA eP	05 17 59.2	SPA eP	22 04 01.7	SPA iP	05 28 06.2	e	16 08.9
July 1		July 1		e	30 39.3	July 2	
BYR eP	06 17 15.2	BYR eP	23 08 09.7	e	39 12.8	SPA eP'	22 12 46.3
SPA eP	06 17 21.9	SPA eP	23 09 28.9	July 2		July 2	
July 1		July 1		SPA eP	05 45 47.6	SPA eP	23 25 34.5
SPA eP	07 03 36.7	SPA eP	23 20 37.2	e	45 57.3	July 3	
July 1		e	21 08.6	e	46 27.3	SPA eP	00 03 46.7
BYR eP'	08 18 30	July 1		July 2		e	07 38.2
SPA eP'	08 18 35.8	BYR eP	23 31 39	SPA iP	05 54 20.6	July 3	
e	18 45.3	SPA eP	23 31 31.9	July 2		SPA eP	00 13 48.3
e	19 17.7	July 2		BYR eP	07 05 49	July 3	
July 1		SPA eP	01 07 35.8	SPA eP	07 06 40	SPA eP	01 38 33
BYR eP	08 27 19	July 2		July 2		July 3	
SPA eP	08 28 08.1	BYR eP	01 10 24	SPA eP	08 09 35.0	SPA eP	02 19 43.1
July 1		SPA eP	01 11 01.8	e	09 52.3	July 3	
SPA e(P)	08 48 17.2	July 2		July 2		SPA eP	02 28 15.7
e	52 18.8	SPA iP	02 24 36.1	SPA eP	08 17 44.8	e	28 25.7
July 1		e	24 55.5	July 2		July 3	
BYR eP	10 22 03	July 2		BYR iP	09 05 23	SPA eP	02 38 30.7
SPA eP	10 22 12.6	BYR e(P)	03 35 07	July 2		July 3	
e	22 16.8	SPA eP	03 36 09.0	SPA eP	09 06 17.0	SPA eP'	03 38 01.6
July 1		July 2		e	06 23.4	e	03 39 09.6
SPA e(P)	11 02 50.2	SPA eP	03 38 19.9	July 2		July 3	
July 1		July 2		BYR eP	10 25 18	SPA eP	04 28 18
SPA e(P)	13 03 02.6	BYR iP	03 50 01	SPA eP	10 26 08	e	28 23
e	11 17.7	July 2		July 2		July 3	
July 1		SPA eP	03 50 28.1	BYR eP	12 02 4[illegible]	SPA eP'	05 35 34
BYR eP	13 43 22	July 2		e	03 11	e	35 49
SPA eP	13 44 11.4	SPA e(P)	04 23 15.7	iS	08 43	July 3	
e	44 39.2	July 2		July 2		BYR iP	07 25 45
July 1		SPA eP	04 24 58.1	SPA iP	12 02 29	July 3	
SPA eP	14 09 08.6	July 2		ePP	03 46	SPA eP	07 26 25.5
July 1		SPA eP	04 28 31.8	e	05 33	July 3	
BYR eP	16 00 05			eS	07 37	SPA eP'	07 35 50
SPA eP	16 00 36.2			July 2		July 3	
e	01 20.7			SPA eP	12 35 12	SPA eP	10 30 25.3
				July 2			
				SPA e(P)	12 44 52.5		

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Date and Station	Phase	(GCT)	h	m	s
July 3					
SPA	eP		11	17	24.4
July 3					
SPA	eP		11	24	47.4
July 3					
BYR	eP		13	35	40
SPA	eP		13	37	06.7
	ePcP			38	07.4
July 3					
SPA	eP		18	16	13.8
July 3					
SPA	eP		20	23	07.3
July 3					
BYR	eP'		20	39	49
	iSKP			43	33
	e			52	02
	e			55	58
SPA	eP'		20	40	08.4
	e			40	17.3
	e			40	38.9
	eSKP			43	49.9
	e			55	22.7
July 3					
BYR	eP		20	50	05
SPA	eP		21	50	21.8
	e			50	33.5
	e			50	47.5
July 3					
BYR	e(P)		22	05	54
July 3					
BYR	eP'		23	11	39
SPA	eP'		23	11	45.4
	e			12	03.3
	e			12	22.5
July 3					
BYR	eP		23	25	34
July 3					
SPA	eP		23	50	18.3
	e			50	29.1
July 4					
SPA	eP		00	05	50.7
July 4					
SPA	eP		00	23	34.3
July 4					
SPA	eP		00	45	28.5
July 4					
BYR	eP		01	33	13
SPA	eP		01	33	47.6
	e			33	54.6
July 4					
SPA	eP		02	24	51.6

Date and Station	Phase	(GCT)	h	m	s
July 4					
SPA	eP		02	49	40
July 4					
BYR	eP		02	55	59
SPA	eP		02	56	52.2
	e			57	26.7
July 4					
SPA	eP'		04	02	22
July 4					
BYR	e(P)		04	06	06
SPA	eP		04	07	00.7
July 4					
SPA	eP		04	12	11.2
	e			13	21.9
July 4					
BYR	eP'		04	28	22
July 4					
SPA	eP		04	32	30
	e			33	40
July 4					
BYR	eP		04	47	49
	ePP			50	16
	eSKP			51	25
SPA	eP		04	48	02.7
	e			48	09.8
	ePP			51	17.4
July 4					
BYR	eP		04	59	44
July 4					
SPA	eP		06	41	37
July 4					
BYR	e(P)		07	29	56
July 4					
BYR	iP		08	12	55
	epP			14	56
SPA	eP		08	13	29.5
	epP			15	31.1
July 4					
SPA	eP		08	48	14.6
July 4					
BYR	eP		09	31	11
July 4					
SPA	eP		09	58	02
July 4					
SPA	eP		10	57	06.9
July 4					
SPA	eP		11	23	56.5
July 4					
BYR	eP'		13	29	36

Date and Station	Phase	(GCT)	h	m	s
SPA	eP'		13	29	36
July 4					
BYR	e(P)		13	55	10
July 4					
BYR	eP'		14	09	06
SPA	eP'		14	09	26
July 4					
BYR	e(P)		15	04	51
July 4					
BYR	eP		15	45	51
July 4					
SPA	eP		16	56	34
July 4					
BYR	eP		21	24	00
July 4					
BYR	iP		21	37	03
	i			37	26
	e			37	50
	e			38	00
SPA	eP		21	37	55.1
	e			37	03.8
	e			37	18.1
July 4					
SPA	eP		22	45	01.8
July 4					
SPA	eP		22	49	01.2
July 5					
BYR	eP		00	16	29
SPA	eP		00	15	51.9
	e			17	23.8
	e			17	36.2
July 5					
SPA	eP		00	28	46
July 5					
BYR	eP		01	14	22
July 5					
SPA	eP		02	48	48
July 5					
SPA	eP		04	38	27.3
July 5					
BYR	eP'		05	27	16
SPA	eP		05	27	21.3
	e			27	30.2
	eSKP			30	59.5
July 5					
BYR	eP		05	53	45
	e			54	22
	ePcP			55	25

Date and Station	Phase	(GCT)	h	m	s
SPA	eP		05	54	34.8
	e			55	02.6
	ePcP			55	34.5
	e		06	00	18.0
July 5					
BYR	eP		08	14	50
	e			14	56
	e			15	22
SPA	eP		08	15	38.3
	e			15	45.8
July 5					
BYR	eP		0903		36
SPA	eP		09	02	42.7
	e			04	46.9
July 5					
SPA	eP		09	54	55.5
July 5					
SPA	eP		11	29	31.8
July 5					
BYR	eP		14	05	05
	e			05	37
SPA	eP		14	04	50.1
	e			04	55.4
	e			07	22.7
July 5					
BYR	e(P)		14	10	59
SPA	eP		14	10	52.1
July 5					
BYR	e(P)		14	55	11
July 5					
SPA	eP		16	02	37
July 5					
BYR	eP		18	44	58
July 5					
SPA	eP		21	19	42.5
July 5					
BYR	eP		21	26	01
	epP			27	54
SPA	eP		21	26	33.6
	epP			28	27.6
	e			28	50.2
July 5					
BYR	e(P)		21	39	59
July 5					
BYR	e(P)		21	50	15
SPA	eP		21	49	02.1
	e			50	28.5
July 5					
SPA	eP		23	28	30.5

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Date and Station	Phase (GCT)	h	m	s
July 6				
BYR	eP	01	27	35
SPA	eP	01	28	24.0
	e		29	14.9
	e		29	25.5
July 6				
SPA	eP	03	06	00
July 6				
SPA	eP	03	16	34.9
	e		17	12.9
July 6				
SPA	eP	03	18	12.8
July 6				
SPA	eP	03	20	37.1
July 6				
SPA	eP	04	33	35.2
	e		34	10.7
July 6				
SPA	eP	05	23	46.6
	e		26	03.6
July 6				
BYR	eP	05	35	32
	i		38	44
	iSKP		38	57
SPA	eP	05	35	18.2
	e		35	22.7
	eSKP		38	11.8
	ePSK		38	50.2
July 6				
SPA	eP	05	48	53
July 6				
BYR	eP	07	16	21
SPA	eP	07	15	05
	e		18	04
July 6				
BYR	eP	10	57	12
July 6				
BYR	e(P)	11	52	52
July 6				
SPA	eP	12	05	08.4
July 6				
SPA	eP	12	40	03.1
July 6				
SPA	eP	13	49	22.6
July 6				
SPA	eP	14	55	56.8
July 6				
BYR	eP	15	03	02
SPA	eP	15	02	46.0
	e		02	51.5

Date and Station	Phase (GCT)	h	m	s
July 6				
BYR	eP	15	51	50
SPA	eP	15	52	43.0
July 6				
SPA	eP	20	35	50.4
July 6				
BYR	e(P)	21	25	08
July 6				
BYR	e(P)	21	39	54
SPA	eP	21	40	29
July 6				
SPA	eP	21	42	20.3
July 6				
SPA	eP	21	47	37.7
	e		47	51.3
July 6				
BYR	eP	22	17	49
SPA	eP	22	18	09.9
	e		18	35.3
July 6				
SPA	eP	23	29	45.3
	e		29	56.7
July 6				
BYR	iP	23	48	32
SPA	eP	23	48	34.6
	e		49	08.0
July 7				
SPA	eP	00	05	54
	e		07	06
July 7				
SPA	eP	00	39	43.6
July 7				
BYR	e(P)	00	43	21
SPA	eP	00	44	15
July 7				
SPA	eP	00	48	40.5
July 7				
SPA	eP	00	53	49.3
July 7				
BYR	e(P)	01	09	09
	e		09	17
SPA	eP	01	10	08.7
July 7				
SPA	eP	01	23	16
July 7				
SPA	eP	02	56	12.7

Date and Station	Phase (GCT)	h	m	s
July 7				
SPA	eP	02	56	12.7
July 7				
SPA	eP	03	04	29.3
July 7				
BYR	e(P)	04	45	39
July 7				
SPA	eP	06	16	02.9
July 7				
SPA	eP	06	38	20.3
July 7				
BYR	eP	08	36	37
SPA	eP	09	37	26.9
July 7				
SPA	eP	09	50	16.3
July 7				
SPA	eP	10	37	08.9
	e		56	59.7
July 7				
SPA	eP	11	29	00
July 7				
SPA	eP	13	35	43.7
July 7				
BYR	iP	15	55	03
SPA	eP	15	55	55.5
	e		56	03.8
July 7				
SPA	eP	16	21	27
July 7				
BYR	eP	16	53	41
July 7				
SPA	eP	16	54	54.3
	e		54	58.0
	ePcP		56	01.6
	ePP		57	19.0
July 7				
BYR	eP	17	46	13
	i		46	41
SPA	eP	17	47	01.1
	e		47	10.4
	e		47	45.6
July 7				
BYR	eP	18	08	10
SPA	eP	18	09	03.9

Date and Station	Phase (GCT)	h	m	s
July 7				
BYR	e(P)	21	11	20
July 7				
BYR	iP	21	49	18
	e		49	55
	e		50	35
July 7				
SPA	eP	23	00	51.8
July 8				
SPA	eP	01	43	36.3
	e		44	24.9
July 8				
SPA	eP	04	06	21.8
July 8				
BYR	e(P)	04	23	57
	e		24	34
July 8				
SPA	eP	04	46	08.2
July 8				
SPA	eP	05	29	14
July 8				
SPA	eP	06	43	50.3
July 8				
SPA	eP	07	53	21.8
	e		54	23.1
July 8				
SPA	eP	08	28	45
July 8				
SPA	e(P)	09	47	35
July 8				
BYR	eP'	10	28	31
SPA	eP'	10	28	36.4
	e		28	45.7
July 8				
BYR	e(P)	12	49	45
July 8				
SPA	eP	12	59	39.3
July 8				
BYR	iP'	13	10	16
	ePP		12	14
	ePKiP		20	08
SPA	eP'	13	10	16.3
	ePP		11	13.7
	ePKiP		20	17.3
July 8				
SPA	eP	13	55	32.6

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Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)
July 8		h m s	July 9		h m s			h m s	July 10		h m s
BYR	eP	14 57 30	SPA	eP	00 06 33	SPA	eP	17 54 14.2	SPA	eP	05 50 15.8
	i	58 07					e	54 29.3			
			July 9				e	57 54.5	July 10		
SPA	eP	14 57 08.9	SPA	eP	00 32 04.9		eS	59 35.4	SPA	e(P)	06 06 16
	e	57 39.9		e	32 31.6		e	18 00 45.4			
									July 10		
July 8			July 9			July 9			SPA	eP	06 52 59
SPA	eP	15 26 30	BYR	eP'	00 44 01	SPA	eP	20 03 02.3			
									July 10		
July 8			SPA	eP'	00 44 08.6	July 9			SPA	eP	07 41 48.7
BYR	eP	15 34 51				SPA	eP	21 33 08.6			
	epP	35 40	July 9				e	33 42.6	July 10		
			BYR	eP	01 08 16				BYR	iP	07 55 27
SPA	iP	15 35 06.6				July 9					
	e	35 10.1	July 9			SPA	eP	21 39 49.8	SPA	eP	07 56 03
			SPA	eP	02 07 10.7						
July 8						July 9			July 10		
BYR	iP	16 14 25	July 9			SPA	eP	22 56 34.1	SPA	e(P')	08 18 19
			BYR	iP	02 16 21						
July 8				epP	17 09	July 9			July 10		
SPA	eP	16 15 15.9				SPA	eP	23 24 46.4	BYR	iP	09 16 46
			SPA	eP	02 16 58.2						
July 8						July 9			SPA	eP	09 17 42
SPA	eP	16 57 58.5	July 9			SPA	iP	23 25 23.0			
			SPA	eP	04 03 41.5				July 10		
July 8						July 10			SPA	e(P)	10 55 10.2
BYR	eP'	17 09 08	July 9			SPA	eP	00 03 56		e	56 38.3
			SPA	eP	04 22 34.0		e	04 07		e	57 01
July 8						July 10					
SPA	eP	18 47 38.7	July 9			SPA	eP	00 18 24.7	July 10		
			BYR	iP	06 13 40		e	18 33.1	SPA	eP	11 16 16.1
July 8							E(PP)	22 08.4			
BYR	eP	19 29 39	July 9				E(S)	28 47.9	July 10		
			BYR	iP	06 13 40		EP'P'	43 54.0	BYR	eP	13 53 01
SPA	eP	19 30 28.9		i	13 47						
	e	33 59.4				BYR	eP	00 19 02	July 10		
	e	34 23.7	SPA	eP	06 14 08.9		i	19 11	SPA	eP'	14 08 10
				e	14 36.9		ePP	23 02			
July 8									July 10		
BYR	eP	20 24 36	July 9			July 10			BYR	e(P)	14 37 36
			SPA	eP	07 22 24	SPA	eP	01 58 32.8			
SPA	eP	20 25 30.9						58 48.3	SPA	eP	14 38 16.5
	e	25 37.0	July 9								
			BYR	iP	08 44 47	July 10			July 10		
July 8						SPA	eP	02 28 58	SPA	eP	18 53 34
BYR	eP	20 44 06	SPA	iP	08 44 31.1		e	29 38		e	59 43
				e	47 07.8						
SPA	eP	20 44 58		e	50 41.1	July 10			July 10		
						BYR	eP	02 34 13	BYR	e(P)	19 43 58
July 8			July 9								
SPA	eP	21 46 38.9	SPA	eP	09 38 52	SPA	e(P)	02 33 11	July 10		
							e	34 22	BYR	eP	20 23 46
July 8			July 9				e	35 04			
SPA	eP	21 48 37.5	SPA	eP	11 03 59.0				SPA	eP	20 24 39.1
				e	04 23.8	July 10				e	24 47.3
July 8				e	05 17.1	SPA	eP	02 37 10.2			
SPA	eP	21 50 29.8							July 10		
			July 9			July 10			BYR	eP	20 30 34
July 8			SPA	eP	13 55 27.9	SPA	eP	03 02 25.3		e	32 43
SPA	eP	23 20 41.4		e	55 30.2						
	e	20 44.4				July 10			SPA	eP	20 30 10
			July 9			SPA	eP	03 44 11.3		ePP	31 28
July 8			SPA	eP	16 04 03.3						
SPA	eP	23 30 49.0				July 10			July 10		
	e	31 28.0	July 9			BYR	eP	04 23 53	SPA	eP	21 03 55.6
			BYR	eP	17 54 32						
July 8				e	56 24	SPA	eP	04 23 43			
SPA	eP	23 34 39.8									

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Date and Station	Phase (GCT)	h m s
July 10		
SPA	eP	22 35 49.1
July 10		
SPA	eP	23 24 36.4
	e	24 48.6
July 10		
BYR	e(P)	23 28 03
	e	38 14
SPA	eP	23 38 39
July 11		
BYR	eP	01 46 24
SPA	eP	01 47 15.1
July 11		
BYR	eP	01 51 14
July 11		
BYR	eP	01 58 00
SPA	eP	01 58 54.6
July 11		
SPA	e(P)	02 29 20
July 11		
SPA	eP	05 20 06.6
July 11		
SPA	eP	05 51 46.6
July 11		
BYR	iP	07 06 49
SPA	eP	07 07 38.6
	e	07 44.3
July 11		
BYR	iP	07 41 00
	ePcP	42 28
	e	45 00
SPA	eP	07 40 35.1
	e	41 13.8
	ePP	41 51.5
July 11		
BYR	eP	08 15 15
SPA	eP	08 16 04.9
	e	16 16.2
July 11		
BYR	eP	08 28 30
July 11		
BYR	eP	08 38 54
July 11		
BYR	eP	10 15 27
July 11		
SPA	eP	10 29 39.5
	e	30 09.7
	e	30 59.3
	e	32 21.0
July 11		
BYR	eP	10 36 37
	i	36 52
SPA	eP	10 37 30.0
	e	37 55
July 11		
BYR	iP	12 06 13
	e(PP)	08 28
	eP'P'	34 34
SPA	eP	12 06 47.9
	e	06 55.9
	ePP	09 33.4
July 11		
SPA	eP'	12 13 50
July 11		
SPA	eP	14 24 23.4
July 11		
SPA	eP	14 54 22.6
July 11		
BYR	eP	14 58 28
July 11		
BYR	eP	15 06 16
SPA	eP	15 07 07.5
July 11		
BYR	eP	16 15 16
July 11		
BYR	eP	16 33 06
July 11		
SPA	eP	16 31 55
July 11		
BYR	eP	16 47 48
July 11		
BYR	eP	17 46 01
SPA	eP	17 46 24.1
July 11		
BYR	eP	17 51 50
July 11		
BYR	eP	18 20 59
SPA	eP	18 21 50.5
July 11		
BYR	e(P)	20 59 22
July 11		
BYR	eP	21 07 30
SPA	eP	21 08 06.1
July 11		
SPA	eP	22 21 14.3
July 11		
SPA	iP	23 01 37.6
July 11		
SPA	e(P')	23 07 09.8
	e	13 22.0
	e	14 34.3
July 12		
SPA	eP	00 37 26.9
July 12		
SPA	eP	00 46 09.4
July 12		
SPA	eP	01 39 57.8
July 12		
SPA	eP	02 20 27.5
July 12		
SPA	eP	04 05 31.2
July 12		
SPA	eP	04 44 13.0
July 12		
SPA	eP	05 08 19.6
July 12		
SPA	eP	07 25 40.7
July 12		
SPA	eP	07 37 24.6
July 12		
SPA	eP	07 57 40.4
July 12		
SPA	e(P)	09 37 21
July 12		
SPA	eP	11 02 44.3
July 12		
BYR	eP	12 02 40
July 12		
SPA	eP	12 03 22.7
	e	03 46.2
July 12		
SPA	eP	12 11 45.6
July 12		
BYR	iP	15 12 47
SPA	eP	15 12 31.1
July 12		
SPA	eP	15 31 57.5
	e	32 06.5
July 12		
SPA	eP'	17 19 32.0
	e	19 34.6
July 12		
SPA	eP'	18 24 16.7
	e	24 27.7
July 12		
BYR	eP	19 23 59
SPA	eP	19 24 23.2
	e	24 50.0
	e	24 58.9
	e	25 14.9
July 12		
SPA	eP	20 02 28.9
	e	02 41.0
	e	04 11.8
July 12		
SPA	eP	22 37 22.0
July 12		
SPA	eP	23 13 57.7
	e	15 42.7
July 12		
SPA	eP	23 22 33.1
July 13		
SPA	eP	00 11 53.2
July 13		
SPA	eP	00 50 57.3
	e	52 03.5
July 13		
SPA	eP	02 56 06.1
July 13		
SPA	eP	03 11 06.0
	e	11 22
July 13		
SPA	eP	06 26 09.8
	e	26 57.4
July 13		
BYR	eP	06 57 17
July 13		
BYR	eP	07 13 31
July 13		
SPA	eP	07 57 17.6
	e	59 56.3
	e	08 00 29.4
July 13		
BYR	iP	08 03 54
	ePP	05 28
	iS	10 07
	eP'P'	35 24
SPA	eP	08 03 00.6
	e	03 41.4
	ePP	04 20.6
	e	07 17.5
	eS	08 38.8
	eL	15 27
	eP'P'	36 16
July 13		
SPA	eP	09 22 14.5
July 13		
BYR	e(P)	09 4[illegible] 25

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Date and Station	Phase (GCT)	h	m	s
July 13				
SPA	e(P')	10	41	28.3
July 13				
BYR	e(P')	13	20	21
SPA	eP'	13	20	06.9
	eSKP		23	35.5
July 13				
BYR	iP	13	36	51
	i		41	15
SPA	eP	13	37	44.4
	e		42	09.3
July 13				
BYR	iP	14	40	12
July 13				
SPA	eP	14	40	27.6
July 13				
SPA	eP	15	15	21.6
July 13				
SPA	eP	15	31	14.6
July 13				
SPA	eP	16	04	30
July 13				
BYR	iP	17	13	29
SPA	eP	17	14	01.8
	e		14	13.0
	e(PcP)		14	44.1
July 13				
BYR	eP	19	55	46
SPA	eP	19	56	17.5
	e	20	00	51.5
July 13				
BYR	eP'	20	46	48
SPA	eP'	20	46	46
July 13				
BYR	iP	21	56	35
	e		57	21
July 13				
SPA	eP	21	57	11.9
	e		57	32.4
July 13				
SPA	eP	22	35	28.2
	e		35	46.7
July 13				
SPA	eP	22	42	49.2
July 13				
SPA	eP	23	16	26.0
	e		16	30.9
July 13				
SPA	eP	23	17	02.2
	e		17	20.9
July 13				
SPA	e(P)	23	32	30
July 13				
SPA	e(P)	23	47	40
July 14				
SPA	e(P)	00	14	37
July 14				
SPA	eP	00	16	46.4
July 14				
SPA	eP	00	20	25.5
	e		25	32.0
July 14				
BYR	eP	01	47	31
SPA	eP	01	48	21.5
	e		48	26.4
July 14				
SPA	eP	02	42	07.1
July 14				
SPA	eP	04	08	51.1
July 14				
BYR	eP	08	33	17
July 14				
BYR	eP	09	17	34
SPA	eP	09	17	51.1
July 14				
BYR	eP	09	57	02
July 14				
BYR	eP	10	40	44
	ePP		44	43
	e		49	32
SPA	eP	10	40	22.2
	e		40	45.2
	e		44	53.7
	e		51	58.0
	e		52	14.3
July 14				
BYR	iP	10	54	31
SPA	eP	10	55	00
	e		55	18.5
July 14				
SPA	eP	11	26	00.2
July 14				
SPA	eP	13	10	11
July 14				
SPA	eP	13	46	26.7
	e		46	50.2
	i		48	45.0
	e		50	13.8
	e		51	11.7
July 14				
SPA	e(P')	13	56	56
July 14				
SPA	eP	15	34	48.1
July 14				
SPA	eP	16	04	20.3
July 14				
BYR	eP	17	24	32
SPA	eP	17	24	51.3
July 14				
SPA	e(P)	17	55	41
July 14				
SPA	eP	18	21	27.7
July 14				
SPA	eP	18	28	44.7
July 14				
BYR	eP	20	32	11
SPA	eP	20	31	47.5
July 14				
SPA	eP	21	54	53.2
July 14				
BYR	eP'	22	30	19
	e(SKP)		33	43
SPA	eP	22	30	02.8
	e		30	35.7
July 14				
SPA	eP	22	38	46.8
July 15				
BYR	eP	01	19	51
July 15				
BYR	eP	02	52	35
July 15				
SPA	eP	04	16	01
July 15				
SPA	eP	04	32	09
	e		32	56
	e		40	42
July 15				
BYR	iP	05	14	56
SPA	eP	05	14	05
July 15				
SPA	eP	06	56	50
July 15				
SPA	eP	07	37	52
July 15				
BYR	e(P)	08	26	24
	e		26	46
July 15				
SPA	eP	08	43	34.1
July 15				
BYR	eP	08	52	12
SPA	eP	08	53	09
July 15				
SPA	eP	10	35	36
July 15				
SPA	eP	10	38	35
July 15				
SPA	eP	10	52	47
July 15				
SPA	eP	10	54	22
July 15				
BYR	iP	10	59	36
SPA	eP	11	00	27
July 15				
SPA	eP	12	32	10
July 15				
SPA	eP	15	35	46
	e		36	20
July 15				
BYR	iP	19	01	57
SPA	eP	19	02	47
July 15				
SPA	eP	20	02	19
July 15				
BYR	iP	20	35	26
SPA	eP	20	35	42
July 15				
BYR	eP	21	40	12
	e		40	22
SPA	eP	21	41	02
	e		41	13
July 15				
SPA	eP	23	01	28
July 15				
SPA	eP	23	14	40
	e		15	25

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Date and Station	Phase (GCT)	h	m	s
July 15				
SPA	eP	23	19	34
	e		20	59
July 15				
SPA	eP	23	24	53
	e		27	11
	e		27	50
July 16				
SPA	eP'	00	01	11
	e		03	16
July 16				
SPA	eP	00	15	50
	e		21	56
July 16				
BYR	iP	01	50	34
SPA	eP	01	51	07
July 16				
SPA	eP	02	32	35
July 16				
SPA	eP	03	01	00
	e		02	51
	e		04	21
July 16				
BYR	eP	04	13	23
	e		19	27
	e		20	07
July 16				
SPA	eP	04	34	47
	e		37	40
	e		39	13
	e		40	36
July 15				
BYR	iP	04	54	47
SPA	eP	04	55	25
	ePcP		55	55
	eScP		56	09
July 16				
SPA	eP	08	32	24
	e		34	30
July 16				
BYR	eP	09	17	56
SPA	eP	09	18	47
	e		19	44
July 16				
SPA	eP	10	26	35
July 16				
SPA	eP	11	03	12
July 16				
SPA	eP	11	33	11
	e		35	43

Date and Station	Phase (GCT)	h	m	s
July 16				
SPA	eP	11	43	50
	e		48	50
July 16				
SPA	eP	11	50	15
July 16				
SPA	eP	13	17	29
July 16				
SPA	eP	16	33	03
	e		33	24
July 16				
SPA	eP	17	35	47
	ePKiKP		46	02
	e		46	52
July 16				
SPA	eP	19	12	37
July 16				
SPA	eP	19	23	01
July 16				
BYR	eP'	21	38	28
SPA	eP'	21	39	03
	e		39	50
	e		41	50
July 16				
BYR	e(P)	21	46	36
SPA	eP	21	48	22
July 16				
BYR	eP'	22	28	41
SPA	eP'	22	27	56
	e		29	09
July 16				
SPA	eP	22	30	41
July 16				
BYR	e(P)	23	03	03
July 16				
SPA	e(P)	23	21	36
July 17				
BYR	eP	01	55	26
July 17				
BYR	e(P')	02	33	21
July 17				
BYR	iP	04	32	59
July 17				
BYR	e(P')	05	33	57
July 17				
BYR	e(P)	06	43	39
July 17				
BYR	eP	11	36	46

Date and Station	Phase (GCT)	h	m	s
July 17				
BYR	eP	12	03	37
July 17				
BYR	e(P)	16	50	46
	e		59	03
July 17				
BYR	eP	17	10	26
July 17				
BYR	iP	20	14	29
July 18				
BYR	eP	01	35	46
July 18				
BYR	eP	02	17	46
July 18				
BYR	eP	03	03	46
July 18				
BYR	eP	03	16	46
July 18				
BYR	eP	03	44	50
July 18				
BYR	eP	03	53	50
July 18				
SPA	eP	11	30	50
	e		31	40
July 19				
BYR	iP	11	22	54
	i		22	57
	e		24	55
	e		27	20
July 19				
SPA	eP	11	31	47
	e		34	20
July 19				
SPA	eP	14	23	54

Date and Station	Phase (GCT)	h	m	s
July 19				
SPA	eP	16	49	40
July 19				
SPA	eP	19	50	50
July 19				
SPA	eP	20	09	20
July 19				
SPA	eP	21	36	20
July 20				
SPA	eP	02	29	32
July 20				
BYR	eP	02	51	30
SPA	eP	02	51	51
	e		52	37
	e		53	46
July 20				
SPA	eP	04	24	10
July 20				
SPA	e(P')	05	35	09
July 20				
SPA	eP	06	35	10
	e		37	10
July 20				
SPA	eP	07	33	02
July 20				
BYR	eP	09	46	46
	i		50	02
	e(P)		51	31
SPA	eP	09	49	49
	e		49	52
	eP		52	54
	e(P)		53	52
July 20				
BYR	e(P)	10	31	36
July 20				
SPA	eP	11	18	35
	e		19	47
July 20				
SPA	eP	14	51	20
July 20				
BYR	eP	16	29	56
SPA	eP	16	30	42
	e		30	56
July 20				
BYR	iP	21	20	02

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Date and Station	Phase (GCT)	h m s
July 15		
SPA	eP	23 19 34
	e	20 59
July 15		
SPA	eP	23 24 53
	e	27 11
	e	27 50
July 16		
SPA	eP'	00 03 11
	e	03 16
July 16		
SPA	eP	00 15 58
	e	21 56
July 16		
BYR	iP	01 50 34
SPA	eP	01 51 07
July 16		
SPA	eP	02 32 35
July 16		
SPA	eP	03 01 00
	e	02 51
	e	04 21
July 16		
BYR	eP	04 19 54
SPA	eP	04 19 23
	e	19 27
	e	20 07
July 16		
SPA	eP	04 34 47
	e	37 40
	e	39 19
	e	40 36
July 15		
BYR	iP	04 54 47
SPA	eP	04 55 25
	epP	55 55
	esP	56 09
July 16		
SPA	eP	08 30 24
	e	34 30
July 16		
BYR	eP	09 17 56
SPA	eP	09 18 47
	e	19 44
July 16		
SPA	eP	10 26 35
July 16		
SPA	eP	11 03 12
July 16		
SPA	eP	11 33 11
	e	35 43

Date and Station	Phase (GCT)	h m s
July 16		
SPA	eP	11 43 50
	e	48 50
July 16		
SPA	eP	11 50 15
July 16		
SPA	eP	13 17 29
July 16		
SPA	eP	16 33 03
	e	33 24
July 16		
SPA	eP	17 35 47
	ePKKP	46 42
	e	46 52
July 16		
SPA	eP	19 12 37
July 16		
SPA	eP	19 23 01
July 16		
BYR	eP'	21 39 24
SPA	eP'	21 39 43
	e	39 58
	e	41 50
July 16		
BYR	e(P)	21 48 06
SPA	eP	21 48 22
July 16		
BYR	eP'	22 22 41
SPA	eP'	22 22 56
	e	23 15
July 16		
SPA	eP	22 30 41
July 16		
BYR	e(P)	23 03 20
July 16		
SPA	e(P)	23 21 36
July 17		
BYR	eP	01 55 26
July 17		
BYR	e(P')	02 33 21
July 17		
BYR	iP	04 32 59
July 17		
BYR	e(P')	05 33 57
July 17		
BYR	e(P)	06 43 39
July 17		
BYR	eP	11 36 48

Date and Station	Phase (GCT)	h m s
July 17		
BYR	eP	12 03 37
July 17		
BYR	e(P)	16 58 44
	e	59 23
July 17		
BYR	eP	19 55 04
July 17		
BYR	iP	20 01 29
July 18		
BYR	eP	01 55 48
July 18		
BYR	eP	07 57 46
July 18		
BYR	eP	15 48 39
July 18		
BYR	eP	15 56 49
July 18		
BYR	eP	19 03 58
July 18		
SPA	eP	23 58 58
	e	24 00 39
July 19		
BYR	eP	02 54 55
SPA	eP	02 55 37
July 19		
BYR	iP	04 30 59
	e	31 11
SPA	eP	04 31 40
	e	31 52
	e	32 13
	e	39 28
July 19		
SPA	eP	07 35 53
	e	38 34
	e	53 35
July 19		
SPA	eP	11 05 43
July 19		
BYR	iP	11 22 21
	e	23 04
SPA	eP	11 22 54
	i	22 57
	e	24 55
	e	27 20
July 19		
SPA	eP	11 33 47
	e	34 02
July 19		
SPA	eP	14 23 54

Date and Station	Phase (GCT)	h m s
July 19		
SPA	eP	16 49 40
July 19		
SPA	eP	19 54 00
July 19		
SPA	eP	23 29 25
July 19		
SPA	eP	23 56 22
July 20		
SPA	eP	02 25 32
July 20		
BYR	eP	02 51 30
SPA	eP	02 51 51
	e	52 37
	e	59 46
July 20		
SPA	eP	04 24 15
July 20		
SPA	e(P')	05 35 09
July 20		
SPA	eP	06 25 33
	e	25 59
July 20		
SPA	eP	07 33 20
July 20		
BYR	eP	09 49 48
	i	50 02
	eSKP	53 31
SPA	eP	09 49 49
	e	49 52
	ePP	52 54
	eSKP	53 32
July 20		
BYR	e(P)	10 01 36
July 20		
SPA	eP	11 15 35
	e	15 47
July 20		
BYR	eP	14 00 25
SPA	eP	14 01 22
July 20		
BYR	eP	16 29 56
SPA	eP	16 30 42
	e	30 51
July 20		
BYR	iP	21 10 02

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Date and Station	Phase (GCT)	h m s
SPA	eP	21 10 20
	ePcP	10 49
	e(sP)	11 36
	e	29 15
	e	38 17
July 20		
BYR	eP	21 46 44
	e	47 18
SPA	eP	21 47 32
	e	47 41
	e	47 59
	e(PcP)	48 31
	ePP	49 26
	eP'P'	22 18 31
July 20		
SPA	eP	22 39 02
July 20		
SPA	eP	23 11 35
	e	23 16 48
July 20		
SPA	eP	23 53 13
July 21		
BYR	eP	00 21 39
SPA	eP	00 21 58
July 21		
SPA	eP	00 59 53
July 21		
SPA	eP	01 38 56
July 21		
SPA	eP	02 48 30
	e	51 00
July 21		
BYR	eP	03 19 55
SPA	eP	03 19 37
July 21		
BYR	eP	04 09 55
SPA	eP	04 10 44
	e	10 51
	e	11 00
July 21		
SPA	eP	04 20 55
	e	21 09
July 21		
SPA	eP	05 31 37
July 21		
BYR	eP	06 59 53
July 21		
SPA	eP	07 20 49
July 21		
BYR	e(P)	07 56 44

Date and Station	Phase (GCT)	h m s
July 21		
BYR	iP	08 05 26
SPA	iP	08 06 08
	e	06 31
	e	06 40
July 21		
BYR	eP	08 11 32
SPA	eP	08 12 14
	e	12 25
July 21		
BYR	iP	08 18 34
SPA	eP	08 19 24
	e	19 33
	e	19 41
July 21		
BYR	eP	08 27 14
SPA	eP	08 27 28
July 21		
SPA	eP	10 23 10
July 21		
SPA	eP	11 16 39
	e	23 35
July 21		
SPA	eP	11 55 10
July 21		
BYR	eP	13 13 17
SPA	eP	13 13 10
	e	24 31
July 21		
BYR	eP	13 59 23
	e	14 01 57
SPA	eP	13 59 08
July 21		
BYR	e(P)	14 10 51
July 21		
SPA	eP	14 10 36
July 21		
SPA	eP	16 01 20
July 21		
SPA	eP	16 55 33
July 21		
SPA	eP	18 07 10
July 21		
SPA	eP	18 33 26
	e	33 33
July 21		
SPA	eP	20 00 10

Date and Station	Phase (GCT)	h m s
July 21		
BYR	eP'	21 10 04
SPA	eP'	21 10 01
July 21		
BYR	iP	21 14 40
July 21		
SPA	eP	22 22 54
July 21		
SPA	eP	22 35 04
	e	35 23
July 22		
SPA	eP	00 32 42
	e	35 55
	e	36 26
July 22		
SPA	eP	02 26 56
July 22		
BYR	eP	03 25 34
SPA	e(P)	03 26 16
July 22		
SPA	eP	03 50 28
	e	51 55
July 22		
SPA	eP	05 46 41
July 22		
SPA	eP	07 28 20
July 22		
SPA	eP	07 52 16
	e	52 40
July 22		
SPA	eP	09 42 37
July 22		
SPA	eP	10 03 15
July 22		
SPA	eP	10 09 06
July 22		
SPA	eP	10 12 16
July 22		
SPA	eP	10 45 18
July 22		
SPA	eP	11 00 57
	e	05 29
July 22		
BYR	eP	11 20 46
SPA	eP	11 21 30
	e	22 24
July 22		
SPA	eP	11 32 29

Date and Station	Phase (GCT)	h m s
July 22		
SPA	eP	12 10 36
	e	11 24
July 22		
SPA	eP	18 41 41
July 22		
SPA	eP	20 58 25
July 22		
SPA	eP	21 42 43
July 22		
SPA	eP	22 20 28
	e	21 00
July 22		
SPA	eP	22 55 47
	e	57 25
	e	58 23
	e	59 24
July 23		
BYR	eP	00 16 21
SPA	eP	00 15 57
	e	16 37
July 23		
BYR	e(P)	00 44 38
SPA	eP	00 43 44
July 23		
SPA	eP	01 19 10
July 23		
BYR	eP	01 47 56
July 23		
BYR	eP	02 47 30
SPA	eP	02 48 13
July 23		
SPA	eP	02 57 43
July 23		
SPA	eP	03 14 22
July 23		
SPA	eP	04 41 33
	i	42 59
	e	43 33
	e	44 47
July 23		
SPA	eP	05 46 20
	e	47 33
	e	49 20
July 23		
BYR	iP	05 54 23
SPA	eP	05 55 00
	e	55 42

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Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
July 23	h m s	July 24	h m s		h m s	July 25	h m s
BYR iP	07 41 19	BYR eP'	01 36 48	SPA eP	10 46 35	SPA eP	02 04 06
SPA iP	07 41 49	SPA eP'	01 36 23	e	46 41		
e	42 00	e	36 30	e	47 08	July 25	
e	42 08			e(PP)	49 00	SPA eP	03 23 11
		July 24				e	23 49
July 23		SPA eP	02 20 10	July 24		e	25 00
SPA eP	10 35 45	e	21 53	SPA eP	11 42 14	e	25 22
		e	22 29				
July 23				July 24		July 25	
SPA eP	11 13 02	July 24		BYR eP	13 19 02	BYR eP'	04 00 36
		SPA eP	02 28 18				
July 23				July 24		July 25	
BYR eP	12 10 51	July 24		SPA eP	17 32 37	SPA eP'	04 00 22
		BYR e(P)	02 30 39			e	01 23
SPA eP	12 11 52			July 24			
		SPA eP	02 30 54	BYR eP	18 47 10	July 25	
July 23		e	31 06			BYR eP	04 12 11
SPA eP	12 51 42			SPA eP	18 48 08		
e	52 09	July 24				SPA eP	04 13 40
		BYR eP'	02 46 01	July 24		e	17 27
July 23				SPA eP	19 48 35		
BYR eP	15 33 50	SPA eP'	02 46 18	i	50 05	July 25	
				e	50 38	BYR eP	04 24 48
SPA eP	15 34 27	July 24					
e	34 48	SPA eP	03 51 32	July 24		SPA eP	04 25 15
				SPA eP	19 58 19	e	25 59
July 23		July 24					
SPA eP	16 12 31	SPA eP	04 58 29	July 24		July 25	
				SPA eP	20 51 32	SPA eP	04 33 38
July 23		July 24				e	37 42
BYR e(P)	18 15 43	SPA eP	05 10 03	July 24			
				SPA eP	21 05 35	July 25	
July 23		July 24				BYR e(P)	05 15 52
SPA eP	18 29 09	SPA eP	06 07 38	July 24			
				SPA eP	21 24 02	SPA eP	05 16 07
July 23		July 24				e	16 17
BYR iP	19 08 25	SPA eP	06 27 20	July 24			
				BYR eP	21 51 21	July 25	
SPA eP	19 09 06	July 24				BYR eP	05 44 07
		SPA eP	06 56 21	SPA eP	21 52 14		
July 23						SPA iP	05 44 24
BYR eP	19 25 13	July 24		July 24			
		SPA eP	07 51 54	BYR eP	22 07 05	July 25	
July 23						SPA eP	06 03 22
SPA eP	21 09 05	July 24		SPA eP	22 07 22		
		BYR eP	08 07 37			July 25	
July 23				July 24		SPA eP	06 17 01
SPA eP	21 20 00	SPA eP	08 07 50	SPA eP	23 13 31		
e	21 53					July 25	
		July 24		July 24		BYR eP	08 41 00
July 23		SPA eP	09 01 46	BYR eP	23 22 27		
SPA eP	22 51 54			e	22 52	SPA eP	08 42 01
		July 24		e	24 17		
July 24		BYR eP'	10 08 27			July 25	
SPA eP	00 05 26			SPA eP	23 23 18	BYR eP	10 18 11
		SPA eP'	10 08 40	e	23 28		
July 24		e	09 09	e	24 21	SPA eP	10 18 07
SPA eP	00 17 27	e	09 33			e	18 28
e	19 14			July 25			
		July 24		SPA eP	00 54 13	July 25	
July 24		BYR iP	10 39 26			BYR eP	10 37 09
BYR iP	01 18 18			July 25			
e	19 01	SPA eP	10 40 21	SPA eP	00 59 29	SPA iP	10 37 40
		e	40 27			e	39 51
SPA eP	01 19 00	e	40 49	July 25			
e	19 41			SPA eP	01 02 00	July 25	
		July 24		e	02 33	SPA eP	10 57 43
		BYR iP	10 45 41				

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Date and Station	Phase (GCT)	h	m	s
July 25				
BYR	eP'	11	31	10
	i		31	21
	isP'		31	58
	ePP		34	24
	iSKP		34	46
	e		35	54
	e		41	02
SPA	eP	11	31	21
	ePP		34	31
	ePPP		37	48
	e		42	23
	eSKKP		43	05
	e		46	48
July 25				
SPA	eP	12	15	35
July 25				
BYR	eP	15	20	30
July 25				
BYR	eP'	15	49	48
	i		50	31
	e(PP)		53	17
SPA	eP'	15	49	55
	e		50	31
	e(PP)		53	23
	e	16	01	35
July 25				
SPA	eP	17	12	40
July 25				
BYR	eP	18	09	53
SPA	eP	18	10	13
	e		10	29
July 25				
SPA	eP	20	07	39
July 25				
BYR	eP	20	47	44
July 25				
BYR	eP	21	5	47
SPA	eP	21	15	27
	e		15	58
July 25				
BYR	eP	21	49	38
SPA	eP	21	49	34
July 25				
SPA	eP	22	22	55
July 25				
SPA	eP	22	40	56
	e		41	06
July 25				
BYR	e(P)	22	53	09
July 25				
SPA	eP	23	06	41

Date and Station	Phase (GCT)	h	m	s
July 25				
SPA	eP	23	10	07
July 26				
BYR	eP	00	16	59
SPA	eP	00	17	02
	e		17	14
	e		38	18
July 26				
SPA	eP	01	30	24
July 26				
SPA	eP	01	33	27
July 26				
BYR	e(P)	02	24	32
July 26				
SPA	eP	03	06	38
July 26				
SPA	eP	03	16	52
July 26				
SPA	eP	03	27	37
July 26				
BYR	eP'	04	08	15
	e		08	54
	e		15	04
SPA	eP'	04	08	54
	e		09	22
	e		15	03
July 26				
SPA	eP	04	36	57
	e		37	53
	e		38	34
	e		38	53
July 26				
BYR	eP	04	48	41
SPA	eP	04	48	24
July 26				
BYR	eP	07	23	48
SPA	eP	07	24	38
July 26				
SPA	eP	08	07	04
July 26				
SPA	eP	10	08	16
	e		09	58
July 26				
BYR	eP	10	30	17
July 26				
SPA	eP	11	55	41
	e		55	57
	e		58	52
July 26				
BYR	e(P)	12	55	28

Date and Station	Phase (GCT)	h	m	s
SPA	eP	12	55	25
July 26				
BYR	eP	14	38	45
SPA	eP	14	39	37
July 26				
BYR	eP	16	46	37
SPA	eP	16	46	07
July 26				
BYR	eP	17	31	01
July 26				
BYR	e(P)	19	36	47
	e		38	04
July 26				
BYR	eP	19	41	32
SPA	eP	19	42	06
July 26				
BYR	eP	22	02	07
SPA	eP	22	03	35
July 26				
SPA	eP	22	24	54
	e		26	13
	i		27	31
July 26				
SPA	eP	22	31	43
July 26				
SPA	eP	23	14	44
July 26				
SPA	eP	23	17	54
July 27				
SPA	eP	00	23	54
July 27				
BYR	iP	01	48	02
SPA	eP	01	48	54
	e		49	01
July 27				
SPA	eP	01	59	04
July 27				
SPA	eP	02	18	55
July 27				
SPA	eP	02	51	50
	e		53	03
July 27				
SPA	eP	03	31	20
July 27				
BYR	iP	04	03	56
	i		04	11
	ePcP		06	41

Date and Station	Phase (GCT)	h	m	s
SPA	eP	04	03	37
	ePP		04	24
	ePcP		06	35
	eL		09	41
July 27				
SPA	eP	04	38	29
	e		39	27
	e		40	09
	e		42	33
July 27				
SPA	eP	04	46	05
July 27				
SPA	eP	07	06	11
July 27				
BYR	eP	09	09	21
	e		09	33
SPA	eP	09	08	45
July 27				
SPA	eP	09	13	40
July 27				
BYR	iP	10	12	20
SPA	eP	10	13	14
	epP		13	41
July 27				
BYR	e(P)	10	44	01
July 27				
SPA	eP	10	49	35
	e		50	19
	e		51	22
July 27				
SPA	eP	11	05	45
July 27				
SPA	eP	11	09	09
July 27				
SPA	eP	11	24	13
	e		25	21
July 27				
BYR	eP	13	38	18
SPA	eP	13	38	35
	e		38	44
July 27				
BYR	e(P)	13	49	24
SPA	eP	13	50	06
	i		50	12
July 27				
BYR	iP	14	22	26
	e		23	14
SPA	eP	14	22	21
	e		23	07
July 27				
SPA	e(P)	16	51	15

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Date and Station	Phase (GCT)	h	m	s
July 27				
BYR	eP	17	42	11
July 27				
BYR	eP	18	10	45
	e		10	55
July 27				
BYR	iP	18	29	02
SPA	eP	18	29	32
July 27				
BYR	eP	21	10	44
SPA	eP	21	11	18
	e		11	29
July 27				
BYR	eP	21	55	15
July 27				
SPA	eP	22	13	59
July 27				
SPA	eP	22	59	43
July 27				
SPA	eP	23	43	01
July 28				
SPA	eP	00	01	25
July 28				
BYR	eP	01	29	33
SPA	eP	01	30	00
	e		30	08
July 28				
SPA	eP	02	35	31
July 28				
SPA	eP	04	01	21
	e		03	41
July 28				
SPA	eP	04	31	34
July 28				
SPA	eP	05	07	19
	e		09	09
July 28				
SPA	eP	06	35	05
July 28				
BYR	iP	06	40	58
July 28				
SPA	eP	06	41	50
	e		42	21
	e		43	40
July 28				
BYR	eP	06	52	28
SPA	eP	06	52	58
July 28				
SPA	eP	08	15	37

Date and Station	Phase (GCT)	h	m	s
July 28				
BYR	eP	09	13	48
SPA	eP	09	14	16
July 28				
BYR	eP	10	12	48
SPA	eP	10	12	31
July 28				
BYR	iP	10	47	28
SPA	iP	10	47	43
	e		47	47
July 28				
SPA	eP	11	23	44
July 28				
SPA	eP	14	45	35
July 28				
SPA	eP	15	00	55
	e		01	05
July 28				
SPA	eP	16	47	09
	e		48	22
July 28				
SPA	eP	18	12	21
July 28				
SPA	eP	20	18	25
	e		18	48
July 28				
BYR	e(P)	21	05	32
July 28				
SPA	eP	21	10	33
	e		10	41
	e		11	48
July 28				
SPA	eP	22	37	37
July 28				
SPA	eP	23	09	20
July 29				
BYR	eP	00	35	05
	e		36	01
	ePP		37	37
	eP'P'	01	03	39
SPA	eP	00	35	23
	ePcP		35	51
	ePP		38	26
	ePPP		39	53
	eS		44	41
July 29				
SPA	eP	00	48	18
July 29				
BYR	eP	02	01	22

Date and Station	Phase (GCT)	h	m	s
SPA	eP	02	01	41
	e		01	57
July 29				
SPA	eP	02	19	37
July 29				
SPA	eP	03	11	02
July 29				
SPA	eP	04	37	50
	e		38	15
July 29				
SPA	eP	05	20	55
July 29				
SPA	eP	06	34	18
July 29				
SPA	iP	07	17	42
July 29				
SPA	eP'	11	01	25
	e		03	38
July 29				
SPA	eP	11	42	35
July 29				
SPA	eP	14	07	34
July 29				
SPA	eP	14	36	47
	e		37	01
July 29				
BYR	eP	15	26	11
SPA	eP	15	25	25
	ePcP		27	49
July 29				
SPA	eP	15	39	20
July 29				
BYR	iP	16	01	33
SPA	eP	16	00	47
	ePcP		03	11
July 29				
BYR	e(P')	17	50	47
	eSKP		54	08
	e		54	34
	eSKKP	18	03	36
SPA	eP'	17	50	30
	e		50	45
	e		54	25
	e		54	38
	e	18	01	11
	eSKKP		03	41
July 29				
SPA	eP	19	12	23
July 29				
SPA	eP	19	58	13
	e		58	19

Date and Station	Phase (GCT)	h	m	s
July 29				
SPA	eP	20	35	51
July 29				
BYR	eP	21	09	55
July 29				
SPA	eP	22	06	00
	e		15	06
July 29				
BYR	eP	23	09	31
July 29				
SPA	eP	23	15	06
	e		16	58
	ePP		17	39
July 30				
SPA	eP	00	09	41
July 30				
BYR	eP	02	17	06
SPA	eP	02	17	44
July 30				
SPA	eP	02	42	11
	e		43	18
July 30				
SPA	eP	04	05	10
July 30				
SPA	eP	05	01	48
July 30				
BYR	e(P)	05	55	44
July 30				
SPA	eP	05	56	03
July 30				
BYR	iP	06	12	25
	i		12	54
SPA	eP	06	13	03
	e		13	33
July 30				
SPA	eP	06	32	53
	e		34	09
July 30				
BYR	eP	07	27	11
	e		27	45
SPA	eP	07	27	48
	e		28	22
July 30				
SPA	eP	08	32	25
July 30				
SPA	eP	09	18	13
July 30				
BYR	e(P)	09	57	18

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Date and Station	Phase	(GCT)	h	m	s
July 30					
SPA	eP		11	28	24
	e			28	47
	e			29	27
July 30					
BYR	eP		12	00	19
July 30					
SPA	eP		13	09	01
July 30					
BYR	eP		13	18	26
SPA	eP		13	19	20
July 30					
BYR	eP		13	44	15
SPA	eP		13	45	07
July 30					
BYR	eP'		14	26	13
SPA	eP'		14	26	08
July 30					
BYR	eP'		14	32	09
SPA	eP'		14	32	14
	e			32	24
	e			32	43
	e			33	03
July 30					
BYR	eP		14	48	42
July 30					
BYR	eP		14	53	39
SPA	eP		14	53	13
July 30					
SPA	eP		15	06	25
	e			07	39
July 30					
SPA	eP		17	08	51
July 30					
BYR	iP		19	34	44
SPA	eP		19	35	18
	e			35	27
July 30					
SPA	iP		20	07	05
July 30					
BYR	iP		23	33	31
SPA	eP		23	33	13
July 31					
SPA	eP		01	03	22
July 31					
SPA	eP		01	51	42
	e			51	56

Date and Station	Phase	(GCT)	h	m	s
July 31					
BYR	eP		03	02	29
SPA	eP		03	03	22
July 31					
BYR	eP		03	08	15
	eS			18	37
SPA	eP		03	08	14
	e			10	25
	e			10	51
	e			12	22
	eS			18	37
	e			19	32
	eP'P'			34	15
July 31					
SPA	eP		03	55	04
July 31					
SPA	eP		04	33	06
July 31					
BYR	eP		04	37	03
SPA	eP		04	37	37
	e			37	42
July 31					
SPA	eP		06	26	16
July 31					
BYR	eP		07	17	03
July 31					
SPA	eP		07	57	18
	e			57	29
July 31					
BYR	eP		09	19	07
	e			19	18
SPA	eP		09	19	05
	e			19	17
July 31					
BYR	iP		09	30	38
SPA	eP		09	30	19
	e			31	41
July 31					
SPA	eP		10	15	00
July 31					
SPA	eP		11	09	05
	e			10	31
July 31					
SPA	eP		11	41	33
July 31					
BYR	eP		13	08	18
SPA	eP		13	08	38
July 31					
BYR	iP		15	02	29
	ePcP			04	15

Date and Station	Phase	(GCT)	h	m	s
SPA	eP		15	03	23
	ePcP			04	57
July 31					
SPA	eP		15	59	18
	e(pP)		16	00	22
July 31					
BYR	e(P)		16	10	13
July 31					
BYR	eP		16	42	28
SPA	eP		16	42	26
July 31					
BYR	e(P)		17	45	03
July 31					
SPA	eP		18	00	39
July 31					
BYR	eP		18	23	07
SPA	eP		18	24	01
July 31					
BYR	eP		18	59	03
SPA	eP		18	59	00
	e			59	10
July 31					
SPA	eP		20	01	18
July 31					
SPA	eP		21	12	51
July 31					
SPA	eP		22	39	33
July 31					
BYR	eP		22	46	01
SPA	eP'		22	45	40
July 31					
SPA	eP		23	29	33
Aug. 1					
SPA	eP'		00	11	17
Aug. 1					
SPA	eP		00	39	23
Aug. 1					
BYR	iP		01	06	30
SPA	eP		01	07	11
Aug. 1					
SPA	e(P)		01	26	33
	e			27	19
Aug. 1					
SPA	e(P)		01	30	43
	e			31	07

Date and Station	Phase	(GCT)	h	m	s
Aug. 1					
BYR	eP'		02	39	51
SPA	eP'		02	39	29
	e			39	52
	e			43	05
Aug. 1					
SPA	eP		04	52	51
Aug. 1					
BYR	eP		05	03	41
SPA	eP		05	04	15
Aug. 1					
SPA	eP		06	50	19
	e			55	39
Aug. 1					
BYR	e(P)		07	07	19
SPA	eP		07	07	00
Aug. 1					
BYR	eP		10	03	56
SPA	eP		10	03	38
	e			04	08
Aug. 1					
SPA	eP		10	22	28
Aug. 1					
SPA	eP		11	01	00
	e			01	56
Aug. 1					
BYR	eP'		12	59	27
Aug. 1					
BYR	eP		15	30	51
Aug. 1					
BYR	eP		16	34	00
Aug. 1					
SPA	eP		16	41	28
Aug. 1					
BYR	eP		16	46	05
SPA	eP		16	47	00
Aug. 1					
BYR	eP		17	35	47
SPA	eP		17	36	26
	e			36	33
Aug. 1					
BYR	iP		18	32	26
SPA	eP		18	33	21
Aug. 1					
BYR	eP		18	57	33
SPA	eP		18	56	20

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Date and Station	Phase (GCT)	h	m	s
Aug. 1				
BYR	eP	20	20	50
SPA	eP	20	21	40
	ePcP		22	53
Aug. 1				
BYR	eP	20	28	08
SPA	eP	20	28	57
Aug. 1				
SPA	eP	21	12	27
Aug. 1				
BYR	eP	22	04	20
Aug. 1				
SPA	eP	22	12	10
	e		12	28
Aug. 1				
BYR	eP'	22	15	13
Aug. 1				
BYR	eP	22	42	37
SPA	eP	22	43	12
Aug. 1				
SPA	eP	23	02	14
	e		03	24
	e		06	23
Aug. 2				
SPA	eP	00	04	47
Aug. 2				
SPA	eP	00	39	31
Aug. 2				
SPA	eP	03	36	42
Aug. 2				
SPA	eP	04	11	18
Aug. 2				
SPA	eP	04	54	55
Aug. 2				
BYR	eP	05	17	51
	e		21	21
	eS		26	26
SPA	iP	05	18	13
	e		19	35
	eS		27	02
	ePKKP		36	32
	eP'P'		46	31
Aug. 2				
SPA	eP	06	06	32
Aug. 2				
BYR	eP'	06	34	05
	e(PP)		37	33
SPA	eP'	06	34	09
	e		34	19
	e(PP)		37	50

Date and Station	Phase (GCT)	h	m	s
Aug. 2				
SPA	eP	07	29	38
Aug. 2				
SPA	eP	08	31	27
Aug. 2				
BYR	eP	09	40	07
SPA	eP	09	40	42
	epP		41	02
	eS		49	21
Aug. 2				
SPA	eP	10	08	09
Aug. 2				
BYR	eP	10	16	05
Aug. 2				
SPA	eP	10	16	35
Aug. 2				
SPA	eP	10	48	19
	e		48	34
Aug. 2				
SPA	eP	10	50	34
Aug. 2				
BYR	e(P)	13	42	09
Aug. 2				
SPA	eP	13	42	26
Aug. 2				
SPA	eP	13	55	00
Aug. 2				
BYR	eP	14	54	08
Aug. 2				
BYR	e(P)	17	23	38
Aug. 2				
SPA	eP	17	38	38
Aug. 2				
BYR	eP	18	40	50
Aug. 2				
BYR	eP'	18	59	42
Aug. 2				
SPA	eP	19	01	10
Aug. 2				
SPA	eP	22	20	55
Aug. 2				
BYR	eP	22	45	13
SPA	eP	22	46	07
Aug. 2				
SPA	eP	23	11	36
Aug. 3				
SPA	eP	00	35	29
	e		35	38

Date and Station	Phase (GCT)	h	m	s
Aug. 3				
BYR	iP	01	21	38
SPA	eP	01	22	28
	e		22	36
	e		27	28
Aug. 3				
BYR	eP	01	56	25
	e	02	00	50
Aug. 3				
SPA	eP	02	30	15
Aug. 3				
SPA	eP	02	42	26
Aug. 3				
SPA	eP	02	52	19
Aug. 3				
BYR	eP	03	35	37
	e		37	27
	e		38	22
Aug. 3				
SPA	eP	03	36	56
Aug. 3				
SPA	eP	05	07	31
	e		11	41
	e		12	04
Aug. 3				
SPA	eP	05	50	32
	e		50	48
Aug. 3				
BYR	iP	05	53	23
SPA	eP	05	53	52
	e		56	07
Aug. 3				
SPA	eP	06	28	02
Aug. 3				
SPA	eP	07	06	39
	e		07	19
Aug. 3				
SPA	eP	07	49	35
Aug. 3				
BYR	eP	10	57	19
SPA	eP	10	58	11
	e		58	48
Aug. 3				
BYR	eP	11	53	43
SPA	eP	11	54	35
Aug. 3				
BYR	iP	12	21	24
SPA	eP	12	22	17

Date and Station	Phase (GCT)	h	m	s
Aug. 3				
BYR	eP	15	18	23
Aug. 3				
BYR	eP	17	02	58
Aug. 3				
BYR	eP	18	42	05
Aug. 3				
SPA	eP	18	42	57
Aug. 3				
BYR	iP	19	16	17
	i		16	27
SPA	eP	19	17	09
Aug. 3				
BYR	eP	21	12	13
SPA	eP	21	13	21
Aug. 3				
BYR	e(P)	21	44	43
	e		44	54
Aug. 3				
SPA	eP	21	44	41
	e		45	46
Aug. 3				
SPA	eP	23	12	32
Aug. 4				
BYR	iP	01	23	42
SPA	eP	01	24	12
Aug. 4				
SPA	eP	02	44	50
Aug. 4				
SPA	eP	06	13	53
Aug. 4				
BYR	eP	06	18	04
SPA	eP	06	18	47
Aug. 4				
BYR	eP	06	30	58
Aug. 4				
BYR	eP'	07	54	00
	i		54	11
	eSKP		57	39
	i	08	03	41
	e		06	08
SPA	eP	07	54	11
	e		56	00
	e	08	06	21
Aug. 4				
BYR	eP'	09	27	51
	eSKP		31	19

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Date and Station		Phase (GCT)	Date and Station		Phase (GCT)	Date and Station		Phase (GCT)	Date and Station		Phase (GCT)
		h m s	Aug. 5		h m s	Aug. 5		h m s			h m s
SPA	eP'	09 27 53	SPA	eP	02 17 45	SPA	eP	18 58 23	SPA	eP	14 58 22
	epP'	28 06					e	19 00 31			
Aug. 4			Aug. 5				e	02 49	Aug. 6		
BYR	eP	10 23 11	SPA	eP	02 46 51		e	03 26	SPA	eP	16 53 23
			Aug. 5			Aug. 5			Aug. 6		
SPA	eP	10 23 40	SPA	eP	04 12 58	SPA	eP	22 29 18	BYR	iP	17 41 31
	e	23 47	Aug. 5			Aug. 5			SPA	eP	17 42 23
Aug. 4			SPA	eP	04 23 28	BYR	eP	22 46 47	Aug. 6		
SPA	eP	10 46 27		e	27 02		eSKP	50 20	SPA	eP	18 05 13
Aug. 4			Aug. 5			SPA	eP	22 46 58	Aug. 6		
SPA	eP	11 01 39	SPA	eP	04 49 30		e	47 48	BYR	e(P)	18 53 53
Aug. 4			Aug. 5			Aug. 5			Aug. 6		
BYR	iP	11 24 01	BYR	eP	05 01 47	BYR	eP	23 15 53	SPA	eP	19 58 59
	i	24 11	Aug. 5			SPA	eP	23 15 47	Aug. 6		
SPA	eP	11 24 53	BYR	e(P)	06 17 37		e	16 34	SPA	eP	23 18 43
	e	25 01	Aug. 5			Aug. 6			Aug. 6		
Aug. 4			BYR	eP	06 45 38	SPA	eP	00 41 22	SPA	eP	23 50 29
BYR	e(P)	13 07 08	Aug. 5			Aug. 6			Aug. 7		
SPA	eP	13 07 36	SPA	eP	07 21 36	SPA	eP	01 36 54	BYR	eP	00 55 19
	e	07 54	Aug. 5			Aug. 6			Aug. 7		
Aug. 4			SPA	eP	07 40 46	SPA	eP	02 14 40	SPA	eP	02 22 09
SPA	eP	13 30 46	Aug. 5			Aug. 6			Aug. 7		
Aug. 4			SPA	eP	09 52 34	BYR	iP'	03 23 46	SPA	eP	02 38 49
SPA	eP	13 48 20		e	53 01	Aug. 6				e	39 24
Aug. 4			Aug. 5			SPA	eP	04 10 03		i	40 44
BYR	eP	14 24 44	SPA	eP	11 11 45	Aug. 6			Aug. 7		
SPA	eP'	14 24 50	Aug. 5			SPA	eP	04 48 38	SPA	eP	03 13 41
Aug. 4			BYR	eP	14 48 44		e	55 04	Aug. 7		
BYR	iP	16 14 28	SPA	eP	14 49 03	Aug. 6			SPA	iP	03 29 10
SPA	eP	16 15 00		e	49 14	SPA	eP	05 23 28		e	31 34
Aug. 4			Aug. 5			Aug. 6				e	32 34
BYR	eP	21 17 30	SPA	eP	15 37 37	BYR	e(P)	05 48 03	Aug. 7		
SPA	eP	21 18 19	Aug. 5			SPA	eP	05 48 17	SPA	eP	04 10 06
	e	18 28	SPA	eP	15 49 07	Aug. 6			Aug. 7		
Aug. 4			Aug. 5			SPA	eP	08 29 39	SPA	eP	05 50 56
SPA	eP	22 11 40	BYR	eP'	16 25 44	Aug. 6			Aug. 7		
Aug. 4				i	25 58	SPA	eP	08 48 34	SPA	eP	06 03 22
SPA	eP	23 14 39	SPA	eP'	16 25 50	Aug. 6			Aug. 7		
	e	14 54		e	26 05	SPA	eP	11 21 50	SPA	eP	06 10 07
Aug. 4			Aug. 5				e	28 13		e	14 40
SPA	eP	23 46 41	BYR	eP	16 39 02	Aug. 6				e	20 11
Aug. 5				e	39 13	SPA	eP	13 07 20	Aug. 7		
SPA	eP	00 04 27	SPA	eP	16 38 34		e	10 50	BYR	eP	08 49 35
Aug. 5				e	39 17	Aug. 6			Aug. 7		
SPA	eP	00 29 50	Aug. 5			SPA	eP	14 04 23	BYR	eP	09 04 35
	e	36 36	BYR	e(P)	16 47 22	Aug. 6			SPA	eP	09 03 00
Aug. 5			Aug. 5			BYR	iP	14 57 29	Aug. 7		
SPA	eP	01 18 58	SPA	eP	17 03 34		i	57 38	BYR	eP	09 34 25
							ePP	59 15			

International Seismological Centre

Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s	Aug. 8	h m s	Aug. 9	h m s	Aug. 9	h m s
SPA eP	09 35 16	BYR eP	08 48 44	BYR eP	05 03 39	SPA eP	19 50 08
Aug. 7		SPA eP	08 49 14	SPA eP	05 04 32	e	50 17
SPA eP'	10 22 45	Aug. 8		e	04 59	Aug. 9	
Aug. 7		SPA eP	10 16 28	Aug. 9		BYR eP	21 05 10
SPA eP	10 43 19	Aug. 8		BYR iP	06 20 26	Aug. 9	
Aug. 7		BYR e(P)	10 40 13	SPA eP	06 21 07	SPA eP	22 59 05
BYR e(P)	12 37 20	e	40 20	e	21 14	Aug. 9	
Aug. 7		Aug. 8		e	21 20	BYR eP	23 01 36
SPA eP	12 39 57	SPA eP	11 02 13	ePcP	21 45	Aug. 9	
Aug. 7		e	03 20	Aug. 9		BYR eP	23 48 34
BYR iP	15 48 13	Aug. 8		BYR eP'	06 41 27	SPA iP	23 48 48
SPA eP	15 47 57	SPA eP	15 13 56	SPA eP'	06 41 28	e	49 26
e	50 30	Aug. 8		e	41 37	eS	58 31
Aug. 7		BYR eP	15 23 59	e	42 05	eSS	24 03 50
SPA eP	16 13 30	Aug. 8		e	42 45	e	09 04
Aug. 7		BYR eP	15 47 29	eSKP	45 13	Aug. 10	
BYR eP	16 25 48	SPA eP	15 47 14	Aug. 9		SPA eP	00 57 27
e	26 48	Aug. 8		BYR eP'	07 17 37	Aug. 10	
Aug. 7		SPA eP	17 01 07	SPA eP	07 17 44	SPA eP	01 16 26
SPA eP	16 26 37	Aug. 8		e	17 51	e	17 19
Aug. 7		BYR eP	18 46 58	e(pP)	18 36	Aug. 10	
SPA eP	21 15 29	SPA eP	18 46 29	e	18 55	SPA eP	02 12 14
Aug. 7		Aug. 8		e	19 06	Aug. 10	
SPA eP	21 58 40	SPA eP	20 55 17	Aug. 9		BYR eP	02 50 07
Aug. 7		Aug. 8		SPA eP	07 58 32	SPA eP	02 50 58
BYR eP	22 19 25	SPA eP	23 40 50	e	58 48	e	51 08
Aug. 7		e	43 47	e	08 05 21	Aug. 10	
SPA eP	23 31 23	Aug. 9		e	10 18	SPA iP	03 08 16
e	32 45	BYR eP	00 45 12	Aug. 9		e	10 39
Aug. 8		SPA eP	00 44 43	SPA eP	09 24 05	e	11 22
SPA eP	00 17 05	e	44 54	e	24 22	e	17 32
Aug. 8		e	48 40	Aug. 9		Aug. 10	
SPA iP'	01 38 53	Aug. 9		SPA eP	11 01 53	SPA eP	04 32 12
Aug. 8		SPA eP	01 11 31	Aug. 9		Aug. 10	
BYR e(P)	01 45 24	e	11 38	BYR eP	16 43 09	BYR eP	04 49 05
Aug. 8		Aug. 9		Aug. 9		SPA eP	04 49 56
SPA eP	04 19 12	SPA eP	03 43 02	BYR eP	16 56 34	Aug. 10	
e	19 50	Aug. 9		eP'P'	17 25 57	BYR eP	05 26 07
Aug. 8		BYR e(P)	03 48 27	SPA eP	16 57 06	Aug. 10	
BYR e(P)	04 39 28	e	48 57	e	57 11	BYR e(P)	05 34 19
SPA eP	04 39 58	SPA eP	03 49 37	e	57 56	Aug. 10	
e	40 15	Aug. 9		e	58 07	BYR e(P)	06 00 10
Aug. 8		BYR iP	04 16 43	e	17 03 02	Aug. 10	
SPA eP	06 59 18	e	17 24	eP'P'	25 28	BYR iP	06 06 23
Aug. 8		SPA iP	04 17 22	e	25 39	SPA iP	06 06 52
SPA eP'	07 30 42	epP	17 59	Aug. 9		e	07 10
		ePP	19 38	BYR eP	18 15 43	Aug. 10	
				SPA eP	18 16 14	SPA eP	07 49 56
				Aug. 9			
				SPA eP'	18 38 40		
				e	39 27		

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Date and Station	Phase (GCT)	h m s
Aug. 10		
BYR	iP	09 41 13
SPA	eP	09 41 49
Aug. 10		
BYR	eP	10 37 29
SPA	eP	10 37 00
	e	37 18
Aug. 10		
SPA	eP	11 13 08
	e	17 21
Aug. 10		
BYR	eP	11 43 57
SPA	eP	11 43 39
Aug. 10		
BYR	e(P)	12 51 50
	i	52 04
SPA	eP	12 52 40
Aug. 10		
SPA	eP	14 46 58
Aug. 10		
BYR	eP	14 50 20
SPA	e(P)	14 49 55
	e	50 00
	e	50 33
Aug. 10		
SPA	eP	16 50 20
Aug. 10		
SPA	eP	20 10 30
Aug. 10		
BYR	eP	20 13 04
SPA	eP	20 13 01
Aug. 10		
SPA	eP	20 28 48
	e	30 48
Aug. 10		
SPA	eP	21 17 36
Aug. 10		
BYR	e(P)	21 43 42
SPA	eP	21 44 37
Aug. 10		
SPA	eP	22 11 45
Aug. 10		
BYR	e(P)	22 13 58
Aug. 10		
SPA	e	22 26 21
	e	28 03
Aug. 11		
BYR	iP	00 25 20

Date and Station	Phase (GCT)	h m s
Aug. 11		
BYR	eP	02 14 00
Aug. 11		
SPA	eP	02 48 49
Aug. 11		
BYR	eP'	02 56 03
	ePP	59 26
	e	03 00 28
SPA	eP'	02 56 13
	epP'	56 52
	esP'	57 12
	ePP	59 42
Aug. 11		
BYR	eP	03 06 39
	e	07 38
	ePP	10 43
SPA	eP	03 06 15
	e	06 25
	e	07 11
	e	07 59
	e(PP)	10 43
Aug. 11		
SPA	iP	04 29 56
Aug. 11		
SPA	iP	04 50 14
	e	53 09
Aug. 11		
BYR	eP	05 04 29
	ePP	08 35
	ePKKP	20 24
	e	20 44
SPA	eP	05 04 07
	e	05 03
	ePP	07 58
	e	08 39
	eSKS	14 39
	ePKKP	21 01
	e	24 54
Aug. 11		
BYR	e(P)	07 14 32
	e	14 44
Aug. 11		
SPA	eP	09 38 08
Aug. 11		
SPA	eP	13 10 27
	e	14 27
Aug. 11		
SPA	eP	14 37 05
	e	38 20
Aug. 11		
SPA	eP	16 43 38
	e	45 41
Aug. 11		
BYR	eP	21 52 51

Date and Station	Phase (GCT)	h m s
SPA	eP	21 53 27
	e	53 43
Aug. 12		
SPA	eP	00 04 26
	e	09 29
Aug. 12		
BYR	eP	00 18 58
	e	20 18
SPA	eP	00 19 30
Aug. 12		
SPA	eP	01 41 52
Aug. 12		
SPA	eP	02 20 15
	e	23 48
Aug. 12		
SPA	eP	02 30 59
Aug. 12		
BYR	eP	03 19 00
Aug. 12		
SPA	eP	03 19 33
Aug. 12		
BYR	eP	04 09 16
Aug. 12		
SPA	eP	04 50 53
Aug. 12		
SPA	eP	05 13 01
Aug. 12		
BYR	eP	07 41 59
SPA	eP	07 42 50
Aug. 12		
SPA	eP	10 02 34
Aug. 12		
BYR	eP	10 09 27
SPA	eP	10 08 19
	ePP	10 07
	e	17 07
Aug. 12		
SPA	eP	11 12 59
Aug. 12		
BYR	eP	11 32 52
SPA	eP	11 33 07
Aug. 12		
BYR	eP	11 42 00
Aug. 12		
BYR	iP'	13 31 33
	eSKKP	43 48

Date and Station	Phase (GCT)	h m s
SPA	eP'	13 31 30
	ePP	33 28
	eSKKP	44 49
Aug. 12		
SPA	e(P)	14 25 52
Aug. 12		
SPA	eP	15 12 52
Aug. 12		
SPA	eP	15 37 32
Aug. 12		
SPA	eP	16 28 35
Aug. 12		
SPA	eP	19 05 45
Aug. 12		
SPA	eP	19 45 32
Aug. 12		
BYR	e(P)	23 34 59
SPA	iP	23 34 41
	epP	35 02
	e	39 03
Aug. 13		
SPA	eP	00 27 12
Aug. 13		
SPA	eP	00 36 20
Aug. 13		
BYR	eP	04 24 24
SPA	eP	04 23 18
	e(PP)	25 00
Aug. 13		
SPA	eP	05 43 23
	e	44 41
Aug. 13		
SPA	eP	06 38 10
Aug. 13		
BYR	eP	06 40 56
SPA	eP	06 41 49
	e	43 54
Aug. 13		
BYR	eP	07 30 12
	iSKP	33 32
	e	42 33
SPA	eP	07 29 57
	e	30 09
	e	30 24
	e	30 44
	e(PP)	32 35
	eSKP	33 26
	e	33 52
	e	43 11
	e	46 48

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Date and Station	Phase (GCT)	h m s
Aug. 13		
SPA	eP	08 15 40
Aug. 13		
SPA	eP	10 58 17
Aug. 13		
SPA	eP	11 03 13
Aug. 13		
SPA	eP	11 24 48
Aug. 13		
BYR	iP	14 23 00
	iPP	24 37
	e	28 41
SPA	iP	14 23 52
	ePP	25 40
	eS	31 00
	i	38 48
Aug. 13		
BYR	iP	14 36 56
Aug. 13		
BYR	eP	14 53 13
SPA	eP	14 54 22
Aug. 13		
SPA	eP	15 17 14
	e	18 37
Aug. 13		
BYR	eP	15 29 37
SPA	eP	15 30 20
Aug. 13		
SPA	eP	16 05 06
Aug. 13		
BYR	eP	16 21 31
SPA	eP	16 22 23
Aug. 13		
SPA	eP	16 37 05
Aug. 13		
BYR	iP	17 17 53
SPA	eP	17 18 44
Aug. 13		
BYR	iP	17 38 24
SPA	eP	17 39 16
Aug. 13		
BYR	eP	18 03 42
SPA	eP	18 04 34
	e	10 36

Date and Station	Phase (GCT)	h m s
Aug. 13		
SPA	eP	18 41 00
Aug. 13		
BYR	e(P)	20 12 08
Aug. 13		
BYR	eP	20 30 36
SPA	eP	20 31 27
Aug. 13		
BYR	e(P)	22 35 57
	e	36 34
SPA	eP	22 37 28
Aug. 13		
SPA	eP	23 17 15
Aug. 13		
SPA	eP	23 34 39
Aug. 14		
SPA	eP	00 37 11
Aug. 14		
SPA	eP	00 54 28
Aug. 14		
BYR	eP	02 13 30
SPA	eP	02 14 22
Aug. 14		
SPA	e(P)	03 09 08
Aug. 14		
SPA	e(P)	03 16 30
	e	19 15
Aug. 14		
BYR	e(P)	04 19 58
	e	20 07
	e	23 54
SPA	eP	04 20 08
Aug. 14		
SPA	eP	04 33 49
BYR	eP	04 33 02
Aug. 14		
SPA	eP	05 57 38
	e	59 42
Aug. 14		
SPA	eP	07 05 57
	e	07 03
Aug. 14		
BYR	eP	08 41 42
SPA	eP	08 42 19
Aug. 14		
SPA	eP	11 38 26
	e	38 47

Date and Station	Phase (GCT)	h m s
Aug. 14		
SPA	eP	11 38 26
	e	38 47
Aug. 14		
SPA	e(P)	11 44 34
Aug. 14		
SPA	eP	12 57 30
Aug. 14		
BYR	eP	13 36 42
SPA	eP	13 36 18
Aug. 14		
BYR	iP	14 53 15
SPA	iP	14 53 09
	epP	53 55
Aug. 14		
BYR	eP	15 01 19
Aug. 14		
BYR	eP	15 15 09
SPA	eP	15 15 35
Aug. 14		
BYR	eP	20 36 14
SPA	eP	20 35 17
Aug. 14		
SPA	eP'	21 43 10
Aug. 14		
SPA	eP'	22 56 07
Aug. 14		
BYR	iP	22 55 56
	ipP	56 47
SPA	iP	22 56 32
	epP	57 18
	ePP	58 53
Aug. 14		
BYR	eP	23 25 01
SPA	eP	23 25 05
Aug. 14		
SPA	eP	23 49 09
Aug. 15		
SPA	eP	02 46 52
Aug. 15		
BYR	eP	03 25 36
SPA	eP	03 26 23
Aug. 15		
SPA	iP	04 07 08
Aug. 15		
SPA	iP	04 49 30
	e	52 00

Date and Station	Phase (GCT)	h m s
Aug. 15		
BYR	e(P)	05 00 46
SPA	eP	05 01 42
Aug. 15		
BYR	eP'	05 55 01
SPA	eP'	05 55 17
	e	55 33
Aug. 15		
BYR	iP'	06 15 01
	epP'	15 16
SPA	eP'	06 15 00
Aug. 15		
BYR	iP	06 39 56
SPA	eP	06 40 47
	e	40 57
	e	48 22
Aug. 15		
BYR	eP	07 11 41
SPA	eP	07 10 43
	e	11 29
Aug. 15		
BYR	e(P)	10 13 47
SPA	eP	10 13 28
Aug. 15		
SPA	eP	13 52 59
Aug. 15		
BYR	eP	14 46 23
SPA	eP	14 45 29
	e	46 16
Aug. 15		
SPA	eP	17 13 01
Aug. 15		
BYR	eP	17 50 13
SPA	eP	17 51 16
Aug. 15		
BYR	eP	17 56 45
	e	57 42
SPA	eP	17 57 36
	e	58 33
Aug. 15		
BYR	iP	19 30 35
SPA	eP	19 30 16
	e	30 31
	e	33 05
Aug. 15		
BYR	eP	21 28 54

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Date and Station	Phase (GCT)	h m s
SPA	eP	21 29 43
Aug. 15		
BYR	eP	21 44 33
Aug. 15		
BYR	e(P)	22 19 47
SPA	eP	22 20 38
Aug. 15		
BYR	eP'	22 44 40
SPA	eP'	22 44 57
Aug. 15		
SPA	eP	00 54 17
Aug. 16		
BYR	eP	00 57 09
SPA	eP	00 58 01
	e	58 47
Aug. 16		
SPA	eP	02 22 47
Aug. 16		
BYR	iP	02 58 02
	ipP	58 25
	isP	58 37
SPA	eP	02 58 14
	epP	58 36
	esP	58 40
	e	59 04
	e	03 04 46
Aug. 16		
SPA	e(P)	03 27 59
	e	31 16
Aug. 16		
SPA	eP	04 40 56
	e	42 57
Aug. 16		
SPA	eP	04 57 49
Aug. 16		
SPA	eP	06 12 11
Aug. 16		
BYR	eP	07 13 32
Aug. 16		
SPA	eP	07 44 00
Aug. 16		
SPA	eP	08 05 44
Aug. 16		
BYR	eP	08 26 04
	epP	26 19
SPA	eP	08 26 00
Aug. 16		
SPA	eP	09 04 15

Date and Station	Phase (GCT)	h m s
Aug. 16		
SPA	eP	09 10 51
	e	11 43
Aug. 16		
SPA	eP	10 43 43
Aug. 16		
SPA	eP	12 00 48
	e	01 46
Aug. 16		
SPA	eP	15 00 48
Aug. 16		
SPA	eP	22 18 35
	e	19 39
Aug. 16		
BYR	eP	22 40 27
SPA	eP	22 40 11
	e	40 42
Aug. 16		
BYR	eP	23 04 47
Aug. 16		
BYR	eP	23 08 29
	e	08 40
Aug. 16		
SPA	eP	23 16 41
Aug. 16		
SPA	eP	23 49 48
Aug. 16		
SPA	eP	23 59 39
Aug. 17		
SPA	eP	01 43 39
Aug. 17		
SPA	eP	02 23 28
Aug. 17		
BYR	eP	03 42 25
SPA	eP	03 42 53
	e	46 30
Aug. 17		
SPA	eP	04 35 23
	e	40 15
Aug. 17		
SPA	eP	05 25 08
Aug. 17		
SPA	iP	05 48 32
Aug. 17		
SPA	eP	09 38 33
Aug. 17		
BYR	eP	09 45 15
	e	46 54
SPA	eP	09 44 53
		50 22

Date and Station	Phase (GCT)	h m s
Aug. 17		
SPA	eP	11 06 54
	e	10 26
Aug. 17		
SPA	eP	11 12 46
	e	13 16
Aug. 17		
BYR	eP	11 35 41
SPA	eP	11 35 22
	e	37 02
Aug. 17		
SPA	eP	13 57 02
Aug. 17		
SPA	eP	14 04 52
Aug. 17		
SPA	eP	18 21 25
	ePP	24 26
Aug. 18		
SPA	eP	01 01 40
Aug. 18		
BYR	eP	01 43 15
SPA	eP	01 42 48
Aug. 18		
SPA	eP	01 53 01
Aug. 18		
SPA	eP	03 01 29
Aug. 18		
BYR	eP	04 02 17
SPA	eP	04 02 44
Aug. 18		
SPA	e(P)	04 12 16
Aug. 18		
BYR	eP	10 36 27
SPA	eP	10 36 06
	e	37 00
Aug. 18		
BYR	eP	10 43 53
SPA	eP	10 44 09
Aug. 18		
BYR	eP	11 15 50
SPA	eP	11 16 39
	epP	16 52
Aug. 18		
BYR	e(P)	13 12 05
Aug. 18		
SPA	eP	17 13 32
Aug. 18		
BYR	e(P)	19 45 50

Date and Station	Phase (GCT)	h m s
Aug. 18		
SPA	eP	20 07 45
Aug. 18		
BYR	eP'	21 06 16
	epP'	06 36
SPA	eP'	21 06 16
	epP'	06 35
Aug. 18		
BYR	eP	22 55 29
SPA	eP	22 55 44
	e	56 30
	e	23 01 15
Aug. 19		
BYR	eP	01 29 52
Aug. 19		
BYR	eP	01 49 07
SPA	eP	01 49 07
Aug. 19		
SPA	eP	02 40 45
	e	41 14
Aug. 19		
BYR	e(P)	02 51 45
SPA	eP	02 52 20
	e	57 18
Aug. 19		
SPA	eP	03 39 16
Aug. 19		
BYR	eP	03 45 14
Aug. 19		
SPA	eP	03 58 20
Aug. 19		
SPA	e(P')	04 26 19
Aug. 19		
BYR	eP	04 37 34
SPA	eP	04 37 53
	e	41 42
Aug. 19		
SPA	eP	05 50 31
	e	51 12
Aug. 19		
BYR	e(P)	05 58 06
SPA	eP	05 57 48
Aug. 19		
BYR	eP	09 03 14
SPA	eP	09 04 05

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Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
Aug. 19	h m s	Aug. 20	h m s		h m s		h m s
BYR eP	09 29 14	SPA eP	04 03 18	SPA eP	21 29 23	SPA eP	04 39 33
SPA eP	09 28 59	e	06 33	e	29 34		
		Aug. 20		ePcP	30 32	Aug. 21	
Aug. 19		SPA eP	04 50 01			SPA eP	05 52 57
SPA eP	10 59 29	e	50 25	Aug. 20			
				BYR eP	22 25 28	Aug. 21	
Aug. 19		Aug. 20				BYR eP	07 00 40
BYR eP	11 56 00	SPA eP'	06 58 57	SPA eP	22 25 33		
		e	59 56			SPA eP	07 00 23
SPA eP	11 56 45			Aug. 20			
		Aug. 20		BYR eP	22 36 05	Aug. 21	
Aug. 19		BYR eP	08 19 55	e	36 30	SPA eP	07 35 40
BYR eP	12 05 09			ePP	39 59	e	36 22
		SPA eP	08 20 46				
SPA iP	12 04 54			SPA eP	22 35 42	Aug. 21	
e	05 26	Aug. 20		epP	36 00	SPA eP	08 57 32
e	07 30	BYR eP	10 14 04	ePP	39 35	e	09 02 26
				ePPP	41 41		
Aug. 19		SPA eP	10 14 29	e(SKS)	46 06	Aug. 21	
BYR eP	12 13 41	e	14 44	e	46 20	BYR iP	11 09 21
				eP'P'	23 01 45		
SPA eP	12 14 13	Aug. 20				SPA eP	11 10 00
		SPA eP	11 57 16	Aug. 20		e	10 40
Aug. 19		e	51 41	SPA e(P)	23 17 25		
BYR eP'	12 59 46			e	21 04	Aug. 21	
ePKKP	13 10 07	Aug. 20				SPA eP	11 49 06
		SPA eP	12 51 05	Aug. 21		e	49 33
SPA eP'	12 59 42			BYR eP	00 29 29	e	53 10
ePKKP	13 10 10	Aug. 20					
		SPA eP	13 51 33	Aug. 21		Aug. 21	
Aug. 19				BYR iP	00 30 46.8	BYR eP	13 03 00
SPA eP	14 03 26	Aug. 20		i	31 10.4	ePP	07 02
		BYR eP	14 45 39	e	31 26	e	19 23
Aug. 19				ePKKP	48 41		
BYR eP	17 00 17	SPA eP	14 46 29			SPA eP	13 02 41
				SPA eP	00 30 12	epP	03 26
SPA eP	17 00 25	Aug. 20		e	30 38	ePP	06 31
		BYR eP	15 26 42	e	31 13	eSKS	12 56
Aug. 19				e(PP)	33 59	e	19 35
BYR eP'	17 23 01	SPA eP	15 27 31	ePKKP	48 42		
i	23 11					Aug. 21	
epP'	23 23	Aug. 20		Aug. 21		SPA eP	14 12 08
ePP	26 20	BYR eP	16 02 24	BYR eP	01 11 47		
				ipP	12 21	Aug. 21	
SPA eP'	17 23 08	SPA eP	16 02 53			SPA eP	15 51 22
e(pP')	23 26			SPA eP	01 11 43		
e	23 53	Aug. 20		epP	12 27	Aug. 21	
		SPA eP	16 18 32	esP	12 50	SPA eP	16 37 32
Aug. 19				ePP	14 57	e	39 40
SPA eP	20 10 53	Aug. 20		e	20 34		
		BYR eP	18 00 35	eS	21 47	Aug. 21	
Aug. 19						BYR eP	16 44 02
BYR e(P)	22 46 22	SPA eP	18 01 27	Aug. 21			
				SPA eP	03 12 59	SPA eP	16 44 33
Aug. 19		Aug. 20					
SPA eP	23 43 20	BYR eP	20 18 28	Aug. 21		Aug. 21	
		ePP	20 28	BYR eP'	03 48 06	SPA eP	17 15 41
Aug. 20		eS	26 43				
BYR eP	00 32 48	eP'P'	48 15	SPA eP'	03 47 48	Aug. 21	
ePP	36 33					BYR eP'	17 23 08
		SPA eP	20 18 07	Aug. 21			
SPA eP	00 33 28	e	18 28	BYR eP	04 08 26	Aug. 21	
		e	18 46			BYR eP	17 32 07
Aug. 20		eS	25 59	SPA eP	04 09 55		32 32
SPA eP	01 23 48	e(ScS)	27 27				
				Aug. 21		SPA EP	17 32 35
Aug. 20		Aug. 20		BYR eP	04 38 51		32 57
SPA eP	02 04 52	BYR eP	21 29 44				

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Date and Station	Phase (GCT)	h m s
Aug. 21		
BYR	eP'	18 24 02
Aug. 21		
BYR	eP	21 00 13
SPA	eP	21 01 05
Aug. 21		
BYR	eP	21 56 32
Aug. 21		
BYR	eP	22 22 18
SPA	eP	22 23 10
Aug. 21		
BYR	eP'	22 39 42
SPA	eP'	22 39 38
Aug. 22		
SPA	eP	00 34 32
Aug. 22		
BYR	e(P)	01 37 20
SPA	eP	01 35 58
Aug. 22		
SPA	eP	02 16 11
Aug. 22		
SPA	eP	03 34 51
Aug. 22		
BYR	iP	04 48 55
	e	49 20
SPA	eP	04 49 32
	e	50 00
Aug. 22		
SPA	eP	05 29 56
Aug. 22		
BYR	eP	06 27 40
SPA	eP	06 28 02
	e	28 53
Aug. 22		
SPA	eP	09 18 50
	e	23 49
Aug. 22		
BYR	eP	12 33 21
Aug. 22		
SPA	eP	14 56 59
Aug. 22		
BYR	eP	17 55 05
SPA	eP	17 55 42
Aug. 22		
BYR	eP	18 14 15
SPA	eP	18 13 50
Aug. 22		
SPA	e(P)	18 34 10
Aug. 22		
BYR	eP	20 56 01
	epP	56 21
	ePcP	57 18
SPA	eP	20 56 35
	e	21 05 05
Aug. 22		
BYR	eP	22 09 32
SPA	eP	22 08 40
Aug. 22		
SPA	eP	23 05 07
Aug. 23		
BYR	eP	01 09 37
SPA	eP	01 10 10
Aug. 23		
BYR	eP	01 32 03
SPA	eP	01 32 41
	i	32 46
	e	33 01
Aug. 23		
SPA	e(P)	01 42 52
Aug. 23		
BYR	eP	02 15 33
	epP	17 34
SPA	eP	02 16 09
Aug. 23		
BYR	eP	03 07 14
SPA	eP	03 08 28
	e	11 31
Aug. 23		
SPA	eP	05 26 53
Aug. 23		
BYR	eP	08 44 42
SPA	eP	08 45 34
Aug. 23		
SPA	eP	09 16 53
Aug. 23		
BYR	iP	09 30 23
	e	31 06
SPA	eP	09 31 01
Aug. 23		
BYR	eP	11 41 22
SPA	eP	11 41 36
Aug. 23		
BYR	e(P)	13 10 49
Aug. 23		
SPA	eP	13 12 17
Aug. 23		
BYR	eP	13 18 13
SPA	iP	13 18 44
Aug. 23		
BYR	e(P)	13 44 11
Aug. 23		
SPA	eP	13 51 16
Aug. 23		
BYR	eP	14 21 18
SPA	eP	14 21 20
	e	21 36
Aug. 23		
BYR	eP	15 43 34
SPA	eP	15 44 04
Aug. 23		
SPA	eP	19 20 41
	e	22 14
Aug. 23		
SPA	eP	21 29 50
	e	30 20
	e	36 24
Aug. 23		
BYR	eP	21 40 45
	e	41 54
SPA	eP	21 41 14
	e	41 30
Aug. 23		
BYR	eP	22 56 01
SPA	eP	22 56 33
	e	56 54
	ePP	59 27
SPA	eP	23 08 46
	e	09 16
	e	14 10
Aug. 24		
BYR	eP	00 20 46
SPA	eP	00 21 32
Aug. 24		
BYR	eP	02 03 32
	eSKP	07 25
SPA	eP'	02 03 46
	epP'	03 58
	e	04 48
Aug. 24		
BYR	eP	02 10 07
SPA	eP	02 10 58
	e	11 06
Aug. 24		
BYR	eP	03 07 27
SPA	eP	03 06 47
	e	07 39
Aug. 24		
BYR	e(P)	04 07 41
SPA	eP	04 07 38
Aug. 24		
BYR	eP	04 26 56
SPA	eP	04 26 37
Aug. 24		
BYR	eP	04 39 22
SPA	eP	04 39 21
Aug. 24		
BYR	eP	05 59 42
SPA	eP	06 00 17
	e(pP)	00 32
	e	01 13
Aug. 24		
SPA	eP	06 59 24
Aug. 24		
SPA	eP	08 45 28
Aug. 24		
SPA	eP	11 11 54
	e	15 54
Aug. 24		
SPA	eP	12 06 58
Aug. 24		
SPA	e(P)	12 32 28
Aug. 24		
BYR	eP	13 10 50
SPA	eP	13 12 01
Aug. 24		
SPA	eP	18 27 56
Aug. 24		
BYR	iP'	19 46 36
	ePKKP	56 31
	eSKKP	20 00 21
SPA	eP'	19 46 20
	e	46 36
	e	49 46
	e	50 49
	e	51 28
	ePKKP	57 00

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Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
Aug. 24	h m s	Aug. 25	h m s		h m s		h m s
SPA eP	20 04 47	BYR eP	08 47 23	SPA eP'	18 01 21	SPA eP	11 43 37
Aug. 24		e	47 53	e	01 34		
SPA eP'	20 40 35			eSKP	05 21	Aug. 26	
		SPA eP	08 48 13	e	12 57	BYR eP	11 59 55
Aug. 24		e	48 51				
BYR eP	22 23 38.2			Aug. 25		SPA eP	11 59 30
e	27 12	Aug. 25		BYR eP	18 36 01	e	12 04 07
		BYR e(P)	08 57 23				
SPA eP	22 25 13			SPA eP	18 37 26	Aug. 26	
e	27 47	Aug. 25				BYR iP	14 59 40
e	28 46	BYR eP	09 02 39	Aug. 25		e	15 00 12
				SPA eP	19 34 56	SPA eP	15 00 19
Aug. 25		SPA eP	09 03 41				
BYR iP	01 07 01	e	04 16	Aug. 25		Aug. 26	
		e	04 33	SPA eP	19 51 25	BYR eP	15 07 37
SPA eP	01 07 53						
e	08 19	Aug. 25		Aug. 25		SPA eP	15 06 52
		BYR eP	09 12 01	BYR e(P)	20 33 06	e	06 58
Aug. 25						e	07 13
BYR eP	01 59 20	SPA eP	09 12 36	SPA eP	20 32 04	e	08 50
SPA eP	01 59 52	Aug. 25		Aug. 25		Aug. 26	
		SPA eP	09 18 34	SPA eP	22 33 49	BYR eP	15 22 14
Aug. 25							
BYR eP	03 49 16	Aug. 25		Aug. 25		SPA eP	15 23 41
e(PP)	50 53	BYR e(P)	10 02 24	BYR eP	23 10 25		
		e	03 07			Aug. 26	
Aug. 25				SPA eP	23 11 39	BYR eP	16 12 13
SPA eP	03 49 39	SPA eP	10 03 20	e	12 07		
e	49 57			e(PcP)	13 00	SPA eP	16 13 19
e	50 29	Aug. 25		eS	19 16		
i	59 17	BYR e(P)	10 14 17			Aug. 26	
				Aug. 26		SPA eP	16 58 24
Aug. 25		SPA e(P)	10 12 50	BYR eP	00 22 29		
SPA iP	04 31 14					Aug. 26	
		Aug. 25		SPA eP	00 23 18	BYR eP	17 35 53
Aug. 25		SPA eP	11 16 01	e	23 44		
BYR eP	06 07 32			e(PcP)	24 46	SPA eP	17 36 27
		Aug. 25				e	36 37
Aug. 25		BYR iP	12 13 53	Aug. 26			
BYR e(P)	06 14 04			BYR eP	01 32 05	Aug. 26	
		SPA eP	12 14 30			BYR eP	18 38 51
SPA eP	06 14 49			SPA eP	01 32 54	e	39 55
		Aug. 25		e	34 18	ePP	41 39
Aug. 25		BYR eP	13 06 33				
BYR eP	06 17 14			Aug. 26		SPA eP	18 39 05
e	17 39	Aug. 25		SPA iP'	01 46 43	e	39 13
e	19 52	BYR eP	13 33 24			e	40 10
				Aug. 26			
SPA eP	06 18 15	SPA eP	13 34 02	BYR eP	09 31 40	Aug. 26	
e	18 40					BYR e(P)	19 00 40
e	20 46	Aug. 25		SPA eP	09 32 32		
		BYR eP	15 04 26	e	32 57	SPA eP	19 00 55
Aug. 25				e	34 16		
BYR eP	06 39 00	SPA eP	15 05 30			Aug. 26	
				Aug. 26		SPA eP	20 12 26
SPA eP	06 39 37	Aug. 25		BYR eP'	09 39 27		
e	40 09	BYR iP	17 32 08			Aug. 26	
				SPA eP'	09 39 24	BYR eP	20 27 04
Aug. 25		SPA eP	17 32 49			ePP	28 49
BYR eP	06 57 33	e	33 25	Aug. 26			
				SPA eP'	10 04 28	SPA eP	20 27 35
SPA eP	06 58 30	Aug. 25				ePP	29 12
		BYR eP'	18 01 17	Aug. 26			
Aug. 25		e	01 52	SPA iP	11 30 10	Aug. 26	
BYR iP	08 09 16	e	12 54			BYR e(P)	20 55 39
				Aug. 26		i	55 47
SPA eP	08 09 53			BYR eP	11 42 50		
e	12 38						

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Date and Station	Phase (GCT)	h m s
SPA	eP	20 55 54
Aug. 26		
SPA	eP	23 02 15
Aug. 27		
SPA	eP	00 32 22
Aug. 27		
BYR	e(P)	01 14 42
SPA	eP	01 15 09
Aug. 27		
SPA	eP	02 32 23
Aug. 27		
SPA	eP	08 55 55
Aug. 27		
BYR	eP	10 11 13
SPA	eP	10 10 48
Aug. 27		
BYR	eP	10 32 16
SPA	eP	10 32 19
Aug. 27		
BYR	e(P')	10 36 29
	e	39 22
	e(SKP)	39 56
	e	42 35
SPA	eP'	10 36 14
	eSKP	38 48
Aug. 27		
BYR	eP	11 47 48
Aug. 27		
BYR	eP	11 59 56
Aug. 27		
SPA	eP	12 09 26
Aug. 27		
BYR	iP	13 01 03
SPA	iP	13 01 34
	e	01 51
	ePcP	02 11
Aug. 27		
BYR	eP'	18 35 09
	i	35 17
	epP	36 02
	iSKP	38 33
	e	46 26
SPA	eP'	18 35 12
	e	35 21
	eSKP	38 38
	e	46 05
	e	47 23
Aug. 27		
SPA	eP	19 37 38
	e	38 22
Aug. 27		
BYR	eP	22 06 02
SPA	eP	22 07 17
Aug. 28		
BYR	iP	00 33 59
Aug. 28		
BYR	e(P)	06 17 52
Aug. 28		
BYR	e(P)	19 14 03
Aug. 29		
BYR	e(P)	05 05 41
SPA	eP	05 06 22
	e(PP)	09 30
	e(PPP)	11 38
Aug. 29		
BYR	eP	06 28 10
Aug. 29		
SPA	eP	06 30 47
Aug. 29		
SPA	eP	06 52 28
	e	53 36
Aug. 29		
SPA	eP	07 44 03
Aug. 29		
BYR	eP	11 59 42
SPA	eP	11 59 42
Aug. 29		
BYR	eP	13 45 16
SPA	eP	13 45 31
Aug. 29		
SPA	eP	18 19 30
Aug. 29		
BYR	eP	18 27 42
SPA	eP	18 28 33
Aug. 29		
SPA	eP	20 49 06
Aug. 29		
SPA	eP	23 01 39
	e	02 28
	e	05 52
Aug. 29		
SPA	eP	23 35 22
Aug. 29		
SPA	eP	23 38 52
Aug. 30		
SPA	eP	00 20 15
Aug. 30		
SPA	eP	00 20 15
Aug. 30		
SPA	eP	00 34 30
Aug. 30		
BYR	iP	03 22 35
SPA	eP	03 22 20
	e	24 53
Aug. 30		
SPA	eP	04 05 24
	e	07 58
Aug. 30		
SPA	eP	06 41 13
	e	43 38
Aug. 30		
BYR	eP	06 55 16
SPA	eP	06 56 23
	e	56 47
Aug. 30		
SPA	eP	07 24 25
Aug. 30		
SPA	eP	08 26 34
Aug. 30		
SPA	eP	08 42 31
Aug. 30		
SPA	eP	08 54 37
Aug. 30		
SPA	eP	09 08 00
	e	09 01
Aug. 30		
BYR	eP	10 24 23
SPA	eP	10 24 08
Aug. 30		
SPA	eP	10 48 56
Aug. 30		
SPA	eP	12 10 15
Aug. 30		
BYR	e(P)	14 56 51
Aug. 30		
SPA	eP	16 11 37
	e	11 45
	e	12 07
Aug. 30		
SPA	eP	16 35 56
	e	36 04
Aug. 30		
BYR	e(P)	19 15 58
	e	20 49
SPA	eP	19 16 54
	e(pP)	18 45
Aug. 30		
SPA	eP	20 47 35
Aug. 30		
SPA	eP	22 45 47
Aug. 30		
SPA	eP	23 03 59
Aug. 30		
SPA	eP	23 29 42
Aug. 31		
SPA	eP	03 36 22
Aug. 31		
BYR	iP	05 44 02
	e	46 39
SPA	eP	05 43 04
	i	43 14
	e	46 03
	e	49 49
Aug. 31		
SPA	eP	06 07 54
Aug. 31		
SPA	eP	06 39 48
Aug. 31		
SPA	eP	07 17 30
	e	19 56
Aug. 31		
BYR	eP	07 26 13
SPA	eP	07 27 17
Aug. 31		
SPA	eP	07 46 00
Aug. 31		
SPA	eP	10 03 14
Aug. 31		
BYR	iP	11 35 33
SPA	eP	11 36 23
	e	36 32
	e(PP)	38 14
Aug. 31		
SPA	eP	12 03 57
Aug. 31		
SPA	eP	13 22 16
	e	23 26
Aug. 31		
SPA	eP	13 53 07
Aug. 31		
SPA	eP	15 23 02
Aug. 31		
BYR	eP	15 40 46

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Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s	Sept. 1	h m s		h m s	Sept. 2	h m s
SPA eP	15 41 08	BYR eP	07 58 49	SPA eP'	15 56 51	BYR e(P)	15 14 19
Aug. 31		SPA eP	07 58 31	e	57 14	SPA eP	15 14 41
BYR e(P)	16 28 00	Sept. 1		e	59 13	Sept. 2	
SPA eP	16 27 56	BYR e(P)	08 14 06	ePP	16 00 16	SPA eP	17 55 13
e	28 32	SPA eP	08 14 02	e	01 09	e	57 01
Aug. 31		Sept. 1		e	08 06	Sept. 2	
BYR eP	17 14 19	SPA eP	08 28 13	Sept. 1		BYR iP	18 41 34
Aug. 31		Sept. 1		SPA eP	16 45 38	i	42 02
BYR eP'	17 40 38	BYR eP	09 39 34	e	48 06	e	42 16
SPA eP	17 37 10	SPA eP	09 39 50	e	48 13	ePP	43 56
e	39 07	e	40 19	Sept. 1		SPA eP	18 42 16
Aug. 31		Sept. 1		BYR e(P)	17 03 35	e	42 44
SPA eP	18 05 55	SPA eP	10 20 04	Sept. 1		e	44 09
Aug. 31		Sept. 1		SPA eP	17 43 00	Sept. 2	
SPA eP'	22 30 59	SPA eP	10 40 45	Sept. 1		BYR e(P')	18 59 33
Aug. 31		Sept. 1		BYR eP	18 52 22	SPA eP'	18 59 24
SPA eP	22 59 15	BYR eP	10 46 20	SPA eP	18 52 51	Sept. 2	
e	23 00 52	SPA eP	10 46 37	e	53 02	SPA eP	19 12 00
Aug. 31		e	47 09	Sept. 1		e	12 32
BYR eP	23 09 44	Sept. 1		BYR eP	20 13 06	e	18 51
Sept. 1		BYR eP	11 26 16	SPA eP	20 13 34	Sept. 2	
SPA eP	00 01 12	SPA eP	11 26 32	e	13 44	SPA eP	21 53 01
e	07 52	e	26 45	Sept. 1		e	53 29
Sept. 1		ePP	29 16	SPA eP	22 15 54	Sept. 2	
SPA eP	03 01 23	Sept. 1		Sept. 1		BYR eP'	22 22 05
e	01 52	BYR eP	11 53 23	SPA eP	23 10 15	e(SKP)	25 44
Sept. 1		SPA eP	11 53 14	e	12 30	eSKKP	34 22
SPA eP	04 02 39	e	57 28	e	14 52	SPA eP'	22 22 10
Sept. 1		Sept. 1		e	19 22	e(SKP)	25 51
BYR eP	04 22 38	BYR eP	12 07 45	Sept. 2		e	30 09
SPA eP	04 23 08	SPA eP	12 08 20	BYR eP	03 59 24	e	32 52
e	23 20	Sept. 1		SPA eP	03 59 38	eSKKP	34 25
Sept. 1		SPA eP	12 19 23	Sept. 2		Sept. 2	
BYR eP	05 03 40	Sept. 1		BYR eP	07 45 59	SPA eP	23 11 56
Sept. 1		SPA eP	12 31 59	i	46 06	e	12 53
BYR eP	06 12 50	Sept. 1		SPA eP	07 46 49	Sept. 2	
Sept. 1		SPA eP	12 41 00	e	47 05	BYR iP	23 33 55
SPA eP	06 13 22	Sept. 1		Sept. 2		SPA eP	23 34 46
Sept. 1		BYR eP	14 33 14	BYR iP	11 03 50	Sept. 3	
BYR eP	07 07 34	SPA eP	14 33 28	epP	04 32	SPA eP'	00 19 27
i	07 45	Sept. 1		SPA iP	11 03 45	Sept. 3	
SPA eP	07 08 14	BYR eP'	15 56 32	epP	04 27	BYR eP'	00 38 34
Sept. 1		ePP	16 00 10	ePP	06 45	SPA eP'	00 38 33
BYR eP	07 44 28	e	02 47	e	11 06	Sept. 3	
epP	46 05			Sept. 2		BYR eP	02 28 37
SPA eP	07 45 03			SPA eP	12 42 43	SPA eP	02 28 05
epP	46 40			Sept. 2		Sept. 3	
				BYR eP'	14 05 12	SPA eP	03 00 42
				e	05 53		
				SPA eP'	14 04 52		
				e	05 03		

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Date and Station	Phase (GCT)	h m s
Sept. 3		
SPA	eP	04 14 44
Sept. 3		
BYR	eP	05 52 26
SPA	eP	05 52 42
	e	53 04
Sept. 3		
SPA	eP	06 20 51
Sept. 3		
BYR	e(P)	06 41 19
SPA	eP	06 41 24
Sept. 3		
BYR	eP	07 57 34
	e	58 12
SPA	eP	07 57 51
	e	58 30
Sept. 3		
SPA	eP	08 34 33
Sept. 3		
BYR	eP	08 49 32
SPA	eP	08 50 24
Sept. 3		
BYR	eP	10 50 27
Sept. 3		
BYR	iP	12 53 17
	epP	54 52
	esP	54 36
	e	57 56
	eSKS	13 03 07
	ePKKP	11 34
	eP'P'	19 30
	eSKPP'	22 18
SPA	eP	12 53 23
	e(pP)	54 52
	e	56 45
	e	58 02
	eSKS	13 03 07
	e	08 14
	ePKKP	11 33
	eP'P'	19 30
	eSKPP'	22 19
Sept. 3		
SPA	eP	13 38 29
	e	41 58
Sept. 3		
SPA	eP	13 48 19
Sept. 3		
BYR	eP	14 03 39
	e	04 08
SPA	eP	14 04 17
Sept. 3		
BYR	eP	15 16 53
SPA	iP	15 17 28
Sept. 3		
BYR	eP	15 27 12
SPA	iP	15 27 41
	epP	29 49
Sept. 3		
BYR	eP	15 56 09
Sept. 3		
SPA	eP	16 55 39
	e	55 49
Sept. 3		
BYR	eP	19 22 56
Sept. 3		
BYR	eP	20 49 37
	e	51 11
SPA	eP	20 48 57
Sept. 3		
SPA	eP	22 44 30
	e	52 21
Sept. 3		
SPA	eP	23 23 41
Sept. 4		
BYR	eP'	00 05 40
	i	06 06
	e(SKP)	09 07
	e	17 24
SPA	eP'	00 05 26
	e	05 43
	e(SKP)	08 32
	e(PKS)	09 10
	e	17 56
Sept. 4		
BYR	e(P)	01 13 26
Sept. 4		
BYR	eP	02 49 47
SPA	eP	02 50 04
	e	50 33
Sept. 4		
BYR	eP	04 56 34
SPA	eP	04 54 48
	e	57 09
Sept. 4		
BYR	e(P)	05 07 57
SPA	eP	05 08 13
	e	09 43
Sept. 4		
BYR	eP'	05 40 42
SPA	eP'	05 40 57
	e	41 03
	e	41 37
Sept. 4		
BYR	eP	07 11 01
SPA	eP	07 11 30
Sept. 4		
SPA	eP	10 55 24
Sept. 4		
BYR	e(P)	15 25 52
Sept. 4		
BYR	e(P)	15 35 13
Sept. 4		
BYR	eP	20 20 58
Sept. 4		
BYR	e(P)	21 15 18
SPA	eP	21 15 01
Sept. 5		
BYR	eP	00 06 36
Sept. 5		
BYR	eP	03 48 55
SPA	eP	03 48 49
Sept. 5		
SPA	eP	04 04 36
Sept. 5		
SPA	eP	04 12 40
Sept. 4		
SPA	eP	04 54 38
	e	58 03
Sept. 5		
BYR	eP	06 02 16
SPA	eP	06 02 40
Sept. 5		
BYR	eP	07 37 21
	e	38 21
SPA	eP	07 37 53
	e	38 53
Sept. 5		
SPA	eP	08 02 02
Sept. 5		
BYR	eP	09 50 17
	ePP	51 52
SPA	eP	09 49 32
	e	49 39
Sept. 5		
SPA	eP	11 54 10
Sept. 5		
BYR	eP	12 13 27
	e	13 52
SPA	eP	12 14 18
	e	15 13
Sept. 5		
BYR	eP	12 25 43
SPA	eP	12 27 04
Sept. 5		
SPA	eP	13 20 34
Sept. 5		
BYR	eP	14 19 42
Sept. 5		
SPA	eP	15 51 40
Sept. 5		
BYR	eP	17 07 02
SPA	eP	17 06 48
Sept. 5		
SPA	eP	17 39 06
Sept. 5		
SPA	eP	17 50 33
Sept. 5		
BYR	e(P)	18 17 21
SPA	eP	18 17 02
Sept. 5		
SPA	eP	18 48 54
Sept. 5		
BYR	e(P)	21 24 19
Sept. 6		
BYR	e(P)	00 28 30
Sept. 6		
BYR	eP	02 07 17
SPA	eP	02 07 47
Sept. 6		
SPA	eP	02 51 46
	e	52 38
Sept. 6		
SPA	eP	03 16 09
Sept. 6		
SPA	eP	04 03 24
Sept. 6		
SPA	eP	04 12 38
Sept. 6		
SPA	eP	06 16 33
Sept. 6		
BYR	eP	09 23 22
SPA	eP	09 22 10
	e	25 55

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Date and Station	Phase (GCT)	h	m	s
Sept. 6				
SPA eP		09	52	41
Sept. 6				
BYR eP		10	07	26
ePcP			08	59
SPA eP		10	08	01
e			08	17
Sept. 6				
BYR eP		11	24	14
e			24	35
SPA eP		11	24	39
e			24	55
Sept. 6				
BYR eP		12	06	51
Sept. 6				
BYR eP		12	47	56
SPA eP		12	47	50
e			48	14
Sept. 6				
BYR eP		13	02	53
Sept. 6				
BYR iP		14	13	46
ePKKP			32	08
eP'P'			42	07
SPA eP		14	14	06
e			15	01
e			17	32
eS			23	08
ePKKP			32	28
eL			34	22
eP'P'			42	07
Sept. 6				
BYR eP'		15	43	56
eSKP			47	18
SPA eP'		15	43	47
eSKP			47	07
Sept. 6				
BYR eP		16	42	12
SPA eP		16	41	53
Sept. 6				
BYR eP		17	13	40
SPA eP		17	14	31
Sept. 6				
SPA eP		19	00	59
Sept. 6				
BYR eP		20	45	15
SPA eP		20	45	59
Sept. 6				
BYR eP		21	07	50
Sept. 6				
SPA eP		21	08	19
Sept. 6				
BYR e(P)		21	38	09
SPA eP		21	38	37
Sept. 6				
BYR eP'		21	44	16
Sept. 6				
BYR eP		23	09	52
SPA eP		23	09	56
Sept. 7				
BYR eP		01	27	21
ePP			29	14
SPA eP		01	26	58
ePcP			27	51
e			28	07
e			30	38
e			31	35
Sept. 7				
SPA eP		01	50	51
Sept. 7				
SPA eP		02	04	23
Sept. 7				
BYR eP		02	38	33
SPA eP		02	38	11
Sept. 7				
SPA eP		03	01	46
Sept. 7				
BYR eP		04	03	19
e			03	45
SPA eP		04	02	58
e			03	50
Sept. 7				
BYR e(P)		08	27	21
SPA eP		08	27	42
e(PP)			30	35
Sept. 7				
BYR eP'		12	04	10
SPA eP'		12	04	12
Sept. 7				
SPA eP		14	29	37
Sept. 7				
SPA eP		16	54	21
Sept. 7				
SPA eP		18	03	20
Sept. 7				
SPA eP		18	55	48
Sept. 7				
SPA eP		19	38	50
Sept. 7				
SPA eP		19	52	12
Sept. 7				
SPA eP		20	29	22
Sept. 7				
SPA eP		20	44	09
Sept. 8				
SPA eP		00	24	29
Sept. 8				
SPA eP		01	28	12
Sept. 8				
SPA eP		02	42	19
Sept. 8				
BYR eP		05	25	54
SPA eP		05	26	44
Sept. 8				
BYR eP		05	53	32
SPA eP		05	53	37
e			56	39
Sept. 8				
BYR eP		06	11	26
SPA eP		06	11	04
Sept. 8				
SPA eP		06	38	01
Sept. 8				
BYR eP		07	10	07
SPA eP		07	10	45
Sept. 8				
SPA eP		11	07	14
Sept. 8				
BYR eP		11	21	26
eP'			25	32
ePKKP			37	45
eP'P'			44	32
SPA eP		11	21	07
eP'			25	07
e			27	28
e			34	31
ePKKP			37	54
eP'P'			45	52
Sept. 8				
BYR eP		12	43	16
SPA eP		12	43	43
Sept. 8				
BYR eP'		14	51	18
i			51	29
e			51	54
eSKP			54	56
SPA eP		14	51	26
e			53	14
eSKP			55	02
Sept. 8				
SPA eP		17	15	31
Sept. 8				
BYR iP		17	27	32
SPA eP		17	27	12
e			27	29
e			30	06
Sept. 8				
BYR eP		22	59	42
Sept. 8				
BYR eP'		23	31	51
SPA eP'		23	31	52
Sept. 9				
SPA eP		01	40	07
Sept. 9				
SPA eP		03	49	53
e			50	40
Sept. 9				
BYR eP		03	54	06
SPA eP		03	52	57
e			56	19
Sept. 9				
SPA eP		04	05	09
Sept. 9				
SPA eP		04	57	39
Sept. 9				
BYR eP		08	28	23
SPA eP		08	28	14
e			28	44
Sept. 9				
BYR eP'		10	24	20
eSKP			27	34
e			31	23
SPA eP'		10	24	02
e			31	55
Sept. 9				
BYR eP		11	10	06
Sept. 9				
BYR eP		14	18	01
SPA eP		14	18	50
Sept. 9				
SPA eP'		16	40	05

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Date and Station	Phase (GCT)	h	m	s
Sept. 9				
SPA	eP	17	39	06
	e		39	51
Sept. 9				
BYR	iP	17	54	53
	ePcP		56	54
SPA	iP	17	55	47
	ePcP		57	18
Sept. 9				
SPA	eP'	20	24	31
	e		25	22
Sept. 9				
BYR	e(P)	22	24	51
SPA	eP	22	25	03
	e		25	54
Sept. 10				
SPA	eP'	00	38	10
Sept. 10				
SPA	eP	01	05	02
Sept. 10				
SPA	eP	02	00	07
Sept. 10				
SPA	eP	04	45	53
Sept. 10				
BYR	eP	05	29	50
SPA	eP	05	30	26
Sept. 10				
SPA	eP	07	21	28
Sept. 10				
SPA	eP'	10	14	23
	e		15	46
Sept. 10				
BYR	eP	10	57	35
	epP		59	44
	ePKKP	11	13	56
SPA	eP	10	57	09
	epP		59	17
	esP	11	00	27
	ePP		00	56
	e		01	59
	eSKS		06	49
	e(S)		07	48
	e		08	48
	e		12	37
	ePKKP		14	33
	eP'P'		22	14
	e		43	30
Sept. 10				
SPA	eP	12	23	35
Sept. 10				
SPA	eP	12	52	55
	e		51	18
Sept. 10				
BYR	iP	14	11	11
	i		11	20

Date and Station	Phase (GCT)	h	m	s
SPA	eP	14	12	02
Sept. 10				
BYR	eP	14	16	18
	e		16	30
SPA	eP	14	16	34
Sept. 10				
BYR	e(P)	14	21	58
SPA	eP	14	21	43
Sept. 10				
SPA	eP	14	31	34
Sept. 10				
SPA	eP	15	28	18
Sept. 10				
BYR	eP	17	30	59
SPA	eP	17	31	48
Sept. 10				
SPA	eP	23	13	02
Sept. 11				
BYR	eP	01	19	37
SPA	eP	01	18	49
Sept. 11				
SPA	eP	01	48	10
Sept. 11				
SPA	eP	04	48	46
Sept. 11				
BYR	eP	04	58	55
Sept. 11				
BYR	eP	07	17	42
Sept. 11				
BYR	iP	08	04	11
SPA	eP	08	05	02
	ePcP		06	15
Sept. 11				
BYR	eP	09	54	43
SPA	eP	09	53	30
	e		54	15
Sept. 11				
BYR	e(P)	11	00	52
SPA	eP	11	01	26
	e		01	37
Sept. 11				
SPA	eP	13	06	00
Sept. 11				
SPA	eP	14	09	24
Sept. 11				
BYR	eP	14	36	50

Date and Station	Phase (GCT)	h	m	s
SPA	eP	14	36	59
Sept. 11				
BYR	eP	18	05	36
SPA	eP	18	06	14
Sept. 11				
SPA	eP	18	21	40
Sept. 11				
BYR	eP	22	02	30
SPA	eP	22	02	09
	e		03	02
	e		04	04
	e		05	11
Sept. 11				
BYR	eP	22	18	47
SPA	eP	22	18	47
	e		19	20
Sept. 11				
BYR	eP	22	40	19
SPA	eP	22	40	50
Sept. 11				
BYR	eP	23	27	41
SPA	eP	23	27	57
Sept. 12				
BYR	eP'	03	03	45
SPA	eP'	03	04	02
	i		04	10
Sept. 12				
BYR	eP	04	07	23
SPA	eP	04	08	05
	e		08	33
Sept. 12				
SPA	eP	06	20	15
Sept. 12				
BYR	eP	07	54	20
SPA	eP	07	55	11
Sept. 12				
SPA	eP	08	35	57
Sept. 12				
BYR	iP'	12	35	59
	ipP'		36	12
	ipP'		37	27
	ePKKP		46	05
	e		48	33
SPA	eP'	12	35	52
	ePPP		37	03
	e		41	42
	ePKKP		46	20
	e		49	38

Date and Station	Phase (GCT)	h	m	s
Sept. 12				
BYR	e(P)	13	10	40
Sept. 12				
BYR	eP	13	47	23
SPA	eP	13	48	04
Sept. 12				
BYR	eP	14	08	38
SPA	eP	14	09	20
Sept. 12				
SPA	eP	14	59	18
Sept. 12				
BYR	iP	16	14	00
	epP		16	16
SPA	eP	16	13	32
	epP		15	37
	eS		22	57
Sept. 12				
SPA	eP	19	50	06
	e		52	35
Sept. 12				
BYR	e(P)	21	58	21
Sept. 12				
BYR	e(P)	22	02	09
Sept. 12				
SPA	eP	22	19	18
Sept. 12				
BYR	eP	22	47	11
SPA	eP	22	46	53
	e		47	22
Sept. 12				
SPA	eP	23	08	32
Sept. 12				
BYR	e(P)	23	21	09
SPA	eP	23	22	32
Sept. 13				
BYR	eP	00	51	18
	e		51	26
	e		51	48
SPA	eP	00	52	06
	e		52	15
	e(PP)		53	47
Sept. 13				
BYR	eP	01	02	46
Sept. 13				
SPA	eP	01	29	23
Sept. 13				
BYR	eP	03	26	56
	ePKKP		37	17

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Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s		h m s	Sept. 15	h m s	Sept. 17	h m s
SPA eP	03 27 07	Sept. 14		BYR eP	13 02 13	BYR eP	07 24 02
e(SKS)	33 47	iP	05 05 29				
ePKKP	37 33	e(PP)	07 29	SPA eP	13 03 04	SPA eP	07 24 19
eP'P'	45 52						
		SPA ip	05 06 43	Sept. 15		Sept. 17	
Sept. 13		e	07 15	SPA eP	15 16 35	BYR eP'	08 12 02
SPA eP	05 57 15					i	12 15
		Sept. 14		Sept. 15		e	16 07
Sept. 13		SPA eP	05 38 46	SPA eP	16 29 40		
SPA eP	09 59 19					Sept. 17	
		Sept. 14		Sept. 15		BYR eP'	08 24 40
Sept. 13		BYR iP'	15 44 39	BYR eP'	18 15 41	e	24 53
SPA eP	11 47 00					e	29 46
		SPA eP'	15 45 18	SPA eP'	18 15 38		
Sept. 13				e	17 38	Sept. 17	
BYR e(P)	11 58 38	Sept. 14		e	26 34	BYR eP	11 44 34
		BYR eP	16 11 29	ePKKP	26 44		
SPA eP	11 59 07	e	11 38	e(SKKP)	30 17	Sept. 17	
						SPA eP	11 45 09
Sept. 13		SPA eP	16 11 33	Sept. 15			
SPA eP	16 44 10			SPA eP	20 07 12	Sept. 17	
		Sept. 14				BYR iP	13 11 12
Sept. 13		SPA eP	16 34 48	Sept. 15		e	11 25
BYR eP	17 01 51			SPA eP	21 59 09		
		Sept. 14				SPA eP	13 11 13
SPA eP	17 00 44	BYR eP	17 09 47	Sept. 15		epP	11 42
				SPA eP	22 59 33		
Sept. 13		SPA eP	17 09 51			Sept. 17	
BYR eP	18 04 23			Sept. 16		BYR e(P)	15 24 47
		Sept. 14		SPA eP	00 15 44		
Sept. 13		BYR eP	17 24 09			Sept. 17	
SPA eP	19 57 55			Sept. 16		BYR eP	16 07 04
		SPA eP	17 24 13	SPA eP	03 20 40		
Sept. 13						SPA eP	16 07 02
BYR eP	20 12 34	Sept. 14		Sept. 16			
		BYR eP	23 29 09	SPA eP	06 21 00	Sept. 17	
SPA eP	20 12 20					BYR e(P)	19 19 38
		SPA eP	23 29 45	Sept. 16			
Sept. 13				BYR eP	10 38 49	SPA eP	19 20 28
SPA eP	21 01 39	Sept. 15					
		BYR eP	01 36 45	Sept. 16		Sept. 17	
Sept. 13				SPA eP	11 11 15	BYR eP	20 06 42
BYR eP	22 06 27	Sept. 15					
e	06 34	BYR eP	02 42 14	Sept. 16		SPA eP	20 07 18
				SPA eP	17 44 42	e	07 43
SPA eP	22 07 08	SPA eP	02 43 07				
				Sept. 16		Sept. 17	
Sept. 14		Sept. 15		BYR e(P)	19 20 16	BYR e(P)	20 35 22
BYR eP	00 18 58	BYR eP	03 42 32				
				SPA eP	19 20 30	SPA eP	20 35 18
SPA eP	00 19 39	SPA eP	03 42 48				
		e	43 17	Sept. 16		Sept. 17	
Sept. 14				BYR e(P)	19 40 53	BYR eP	21 55 14
BYRe(P')	00 53 04	Sept. 15					
		BYR iP'	05 22 27	Sept. 16		Sept. 17	
SPA e(P)	00 48 40			BYR eP	21 41 33	BYR e(P)	23 10 37
eP'	53 01						
		SPA eP'	05 22 14	SPA eP	21 42 09	Sept. 17	
Sept. 14				epP	42 34	SPA eP	23 11 25
SPA eP	02 00 52	Sept. 15					
		SPA eP	10 49 54	Sept. 17		Sept. 17	
Sept. 14				SPA eP	00 16 13	BYR eP	23 26 22
BYR eP	02 07 21	Sept. 15					
		SPA eP	11 52 30	Sept. 17		SPA eP	23 27 12
Sept. 14				BYR eP	03 16 22		
BYR iP	04 07 50	Sept. 15				Sept. 18	
		BYR eP	12 07 39	SPA eP	03 16 39	SPA eP	02 28 34
SPA eP	04 07 46						
		SPA eP	12 07 39				

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Date and Station	Phase	(GCT)
Sept. 18	h	m s
BYR	eP	04 13 37
SPA	eP	04 14 29
Sept. 18		
BYR	eP	08 28 45
SPA	eP	08 28 35
Sept. 18		
BYR	eP	09 53 07
	e	53 45
	eS	10 03 33
SPA	iP	09 52 48
	e	53 30
	e	55 38
	e(S)	10 02 50
Sept. 18		
SPA	eP	15 52 30
Sept. 18		
SPA	eP	17 31 26
Sept. 18		
BYR	eP'	19 45 37
SPA	eP'	19 45 47
Sept. 19		
SPA	eP	01 04 15
Sept. 19		
BYR	iP	02 12 17
SPA	iP	02 12 53
Sept. 19		
BYR	eP	02 39 22
SPA	eP	02 40 13
Sept. 13		
BYR	eP'	03 58 10
	e	04 01 13
SPA	eP'	03 57 58
	e	04 05 02
Sept. 19		
BYR	eP	08 12 08
Sept. 19		
BYR	eP	12 49 56
SPA	eP	12 50 23
Sept. 19		
BYR	eP	15 44 55
SPA	eP	15 45 11
Sept. 19		
BYR	eP	16 57 29
SPA	eP	16 57 44

Date and Station	Phase	(GCT)
Sept. 19	h	m s
SPA	eP	17 24 41
Sept. 19		
BYR	e(P)	19 04 52
Sept. 19		
BYR	eP	19 11 25
Sept. 19		
BYR	eP	19 14 20
	e	14 59
SPA	eP	19 14 12
	e	14 55
	e	16 59
	e	26 06
	ePKKP	31 38
Sept. 19		
BYR	iP	20 29 10
SPA	eP	20 28 55
Sept. 19		
BYR	e(P)	22 07 02
Sept. 20		
BYR	eP	00 51 11
	e	51 21
SPA	eP	00 51 45
	e	51 56
Sept. 20		
SPA	eP	02 49 55
Sept. 20		
BYR	iP	03 13 35
SPA	iP	03 14 05
	epP	14 50
	esP	15 09
	eScP	18 43
	eScS	23 28
Sept. 20		
BYR	eP	03 33 00
Sept. 20		
BYR	eP	03 45 17
SPA	eP	03 45 51
	e	46 10
Sept. 20		
BYR	eP	04 19 53
SPA	eP	04 19 40
	e	20 51
Sept. 20		
BYR	eP'	04 25 42
Sept. 20		
SPA	eP'	04 25 11

Date and Station	Phase	(GCT)
Sept. 20	h	m s
BYR	eP	05 35 20
Sept. 20		
SPA	eP	05 56 41
Sept. 20		
SPA	eP	06 13 10
Sept. 20		
BYR	eP	06 19 48
Sept. 20		
BYR	e(P')	10 03 27
Sept. 20		
BYR	eP	11 55 06
SPA	eP	11 56 00
Sept. 20		
SPA	eP	14 03 01
Sept. 20		
BYR	eP	16 48 04
Sept. 20		
BYR	eP	18 24 29
SPA	eP	18 24 51
Sept. 20		
SPA	eP	20 29 03
Sept. 21		
BYR	eP	03 00 57
SPA	eP	03 00 55
Sept. 21		
BYR	eP	03 58 34
Sept. 21		
BYR	eP	07 34 51
SPA	eP	07 35 23
	epP	36 25
Sept. 21		
BYR	eP	08 03 02
SPA	eP	08 03 36
Sept. 21		
BYR	eP	09 43 10
Sept. 21		
BYR	eP	10 57 49
SPA	eP	10 58 02
Sept. 21		
BYR	eP	12 54 01
SPA	eP	12 54 39
Sept. 21		
BYR	eP'	16 26 44

Date and Station	Phase	(GCT)
	h	m s
SPA	eP'	16 26 36
	ePP	27 45
Sept. 21		
BYR	eP	16 36 52
SPA	eP	16 37 10
Sept. 21		
BYR	eP	23 24 16
SPA	eP	23 23 55
Sept. 21		
BYR	eP	23 28 40
SPA	eP	23 28 43
Sept. 22		
BYR	eP'	02 27 39
SPA	eP'	02 27 39
	e	27 50
Sept. 22		
BYR	eP	05 51 38
	e(PP)	55 33
SPA	eP	05 50 57
	e	52 38
	ePP	54 13
Sept. 22		
SPA	eP	08 58 48
Sept. 22		
BYR	eP	09 28 19
	e(PP)	32 16
SPA	eP	09 27 32
	ePP	30 53
Sept. 22		
BYR	eP	09 19 02
	e	21 27
SPA	eP	09 18 18
	e	20 45
Sept. 22		
SPA	eP	09 53 43
Sept. 22		
SPA	eP	10 00 07
Sept. 22		
SPA	eP	10 33 13
Sept. 22		
SPA	eP	11 13 01
	e	17 11
Sept. 22		
BYR	iP	12 10 24
SPA	eP	12 11 45
Sept. 22		
BYR	eP	13 10 39

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Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
Sept. 22	h m s	Sept. 23	h m s	Sept. 24	h m s	Sept. 25	h m s
BYR eP	15 11 29	BYR iP	16 05 22	BYR iP	14 10 28	SPA eP	19 54 08
SPA eP	15 11 45	SPA iP	16 05 51	ipP	11 03	Sept. 25	
Sept. 22		Sept. 23		SPA eP	14 11 06	SPA iP	23 03 47
BYR eP	15 24 40	SPA eP	16 49 46	epP	11 35	i	11 04
SPA e(P)	15 25 29	e	51 07	Sept. 24		Sept. 26	
i	26 47	Sept. 23		BYR eP	14 27 58	BYR iP	00 41 51
Sept. 22		SPA eP	17 02 29	SPA eP	14 28 27	epP	42 21
BYR eP'	15 52 11	Sept. 23		Sept. 24		isP	42 33
Sept. 22		SPA eP	17 25 31	BYR e(P)	16 43 04	SPA iP	00 42 31
BYR eP	22 14 31	Sept. 23		Sept. 24		epP	43 02
SPA eP	22 14 18	BYR e(P)	17 51 39	BYR e(P)	16 55 35	esP	43 15
Sept. 22		Sept. 23		Sept. 24		Sept. 26	
BYR eP	22 32 00	SPA eP	18 54 56	BYR e(P)	23 11 52	SPA eP	03 42 06
SPA eP	22 32 22	Sept. 23		Sept. 25		Sept. 26	
Sept. 22		BYR eP	21 32 31	BYR eP	02 48 42	SPA eP	06 26 52
BYR eP'	23 06 16	SPA eP	21 32 28	SPA eP	02 49 10	Sept. 26	
SPA eP'	23 06 24	Sept. 23		Sept. 25		SPA eP'	09 09 14
Sept. 23		BYR eP	23 12 48	BYR eP'	03 16 26	Sept. 26	
BYR eP	01 30 03	SPA eP	23 13 23	SPA eP'	03 16 10	SPA eP	09 48 38
Sept. 23		e	19 55	Sept. 25		Sept. 26	
BYR iP	01 47 45	Sept. 23		SPA eP	03 42 24	BYR eP'	11 55 23
SPA eP	01 48 35	BYR iP	23 26 06	Sept. 25		e	55 44
Sept. 23		ipP	26 33	BYR eP	03 52 32	SPA eP'	11 55 09
BYR eP	02 57 39	isP	26 45	Sept. 25		Sept. 26	
SPA eP	02 57 39	SPA eP	23 26 48	BYR eP	09 16 04	BYR eP'	15 32 39
Sept. 23		esP	27 23	Sept. 25		SPA eP'	15 32 48
BYR iP	03 09 35	Sept. 24		BYR eP	09 44 52	e	32 59
SPA eP	03 10 26	BYR eP	04 02 04	Sept. 25		Sept. 26	
e	14 27	Sept. 24		SPA eP	14 17 58	BYR iP	17 09 03
Sept. 23		BYR eP	08 56 31	Sept. 25		e	09 45
BYR eP	06 22 20	Sept. 24		BYR eP	15 50 12	SPA iP	17 09 42
SPA eP	06 22 54	BYR eP	09 27 04	SPA eP	15 50 44	e	10 49
Sept. 23		SPA eP	09 27 15	e	51 34	Sept. 26	
SPA eP	11 12 31	Sept. 24		Sept. 25		SPA eP	17 14 42
Sept. 23		BYR eP	09 42 07	BYR e(P)	17 17 11	Sept. 26	
BYR eP	11 15 38	SPA eP	09 41 48	SPA eP	17 17 13	BYR eP	17 37 20
Sept. 23		Sept. 24		Sept. 25		Sept. 26	
BYR eP	13 06 18	BYR iP	11 14 45	BYR eP'	17 48 36	SPA eP	17 43 27
SPA eP	13 07 13	SPA eP	11 15 21	SPA eP'	17 48 34	Sept. 26	
Sept. 23		Sept. 24		Sept. 25		SPA eP	19 51 29
SPA eP	14 30 21	SPA eP	13 16 35	SPA eP	17 58 44	Sept. 26	
Sept. 23		Sept. 24		Sept. 25		BYR iP	21 21 18
SPA eP	15 54 29	BYR iP	14 03 12	BYR iP'	18 51 56	SPA eP	21 21 54
		SPA eP	14 03 27	e	52 26	e	22 24
		e	03 55	SPA eP'	18 52 36	Sept. 26	
						SPA eP	22 55 04

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Date and Station	Phase (GCT)	h	m	s
Sept. 26				
SPA	eP	23	51	27
Sept. 27				
SPA	eP	00	09	32
Sept. 27				
BYR	iP	02	21	16
SPA	eP	02	22	08
Sept. 27				
BYR	eP	03	47	07
	e		49	24
SPA	eP	03	47	16
	e		49	30
Sept. 27				
BYR	eP	05	43	55
Sept. 27				
BYR	eP	06	10	42
	ePP		14	06
SPA	eP	06	10	46
	e		11	48
	ePP		14	20
	eSKKP		22	44
	e		23	28
Sept. 27				
BYR	iP	07	30	58
	e		31	08
SPA	eP	07	30	43
Sept. 27				
SPA	eP	08	30	38
Sept. 27				
SPA	eP	11	19	35
Sept. 27				
SPA	eP	11	24	47
Sept. 27				
BYR	eP'	16	25	03
Sept. 27				
BYR	iP	18	09	31
SPA	eP	18	10	11
Sept. 27				
BYR	eP'	18	54	08
SPA	eP'	18	54	00
	epP'		54	33
Sept. 28				
BYR	iP	00	16	13
	i		16	27
SPA	eP	00	16	54
Sept. 28				
BYR	iP	02	25	02
SPA	eP	02	25	54
	e		27	24
Sept. 28				
BYR	eP	04	12	32
Sept. 28				
BYR	eP'	05	48	44
	e		52	08
SPA	eP'	05	48	29
Sept. 28				
BYR	e(P)	07	39	42
Sept. 28				
BYR	eP	08	12	45
SPA	eP	08	13	34
Sept. 28				
BYR	iP	09	09	52
SPA	iP	09	09	34
	e		12	26
Sept. 28				
SPA	eP	16	33	11
Sept. 28				
SPA	eP	17	19	09
Sept. 28				
BYR	iP	17	44	53
SPA	eP	17	45	21
	epP		47	22
Sept. 28				
BYR	eP	19	23	18
SPA	eP	19	23	00
Sept. 28				
BYR	eP	20	04	06
Sept. 28				
SPA	eP	20	24	37
	e		24	48
Sept. 28				
BYR	eP	20	59	49
SPA	eP	21	00	30
	e		00	39
Sept. 28				
BYR	eP	21	42	35
SPA	eP	21	43	26
Sept. 28				
BYR	eP	22	32	41
SPA	eP	22	33	37
Sept. 28				
BYR	eP	22	51	53
Sept. 29				
SPA	eP	23	07	24
	e		08	18
Sept. 29				
BYR	eP	03	18	11
SPA	eP	03	19	18
Sept. 29				
BYR	iP	06	38	40
SPA	iP	06	39	18
	e		39	50
Sept. 29				
SPA	eP	06	59	52
Sept. 29				
BYR	e(P)	07	07	01
SPA	eP	07	06	49
Sept. 29				
SPA	eP	08	17	56
Sept. 29				
BYR	e(P)	09	37	16
SPA	eP	09	37	44
	epP		39	17
Sept. 29				
BYR	eP	10	37	23
	e		37	54
Sept. 29				
BYR	eP	11	32	41
	eP'		36	37
	i		39	34
	eSKS		42	34
	ePKKP		47	45
SPA	eP	11	32	33
	eP'		36	34
	ePP		37	14
	eSKS		42	29
	e		43	25
	ePKKP		47	41
	e		51	52
	e		55	33
Sept. 29				
BYR	eP	12	14	55
Sept. 29				
BYR	eP	12	29	58
Sept. 29				
SPA	eP	12	38	16
Sept. 29				
BYR	e(P)	12	49	13
SPA	eP	12	48	57
Sept. 29				
SPA	eP	13	24	59
Sept. 29				
SPA	eP	14	40	19
	e		41	56
Sept. 29				
SPA	eP	16	36	01
	e		37	53
Sept. 29				
SPA	eP	20	58	22
Sept. 29				
SPA	eP	21	34	56
Sept. 29				
BYR	eP	21	50	19
SPA	eP	21	51	03
Sept. 29				
BYR	iP	22	21	14.8
	e		21	42
SPA	eP	22	21	06
	e		21	11
Sept. 29				
SPA	eP	22	52	02
Sept. 29				
BYR	eP	23	11	24
SPA	eP	23	12	18
Sept. 30				
BYR	e(P)	01	37	16
Sept. 30				
BYR	eP	01	48	15
SPA	e(P)	01	48	49
Sept. 30				
BYR	eP	03	29	49
Sept. 30				
SPA	eP	05	53	33
Sept. 30				
SPA	eP'	06	54	41
Sept. 30				
BYR	eP	07	44	56
SPA	eP	07	45	47
	e		46	16
Sept. 30				
BYR	eP	08	33	42
Sept. 30				
SPA	eP	09	33	57
Sept. 30				
BYR	eP	12	29	26
SPA	eP	12	30	33

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Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
Sept. 30	h m s		h m s		h m s		h m s
BYR eP	13 25 20						
Sept. 30							
BYR eP	14 53 00						
SPA eP	14 53 49						
e	56 51						
Sept. 30							
SPA eP	18 35 16						
Sept. 30							
BYR eP	21 16 18						
SPA eP	21 16 29						

International Seismological Centre

SEISMOLOGICAL BULLETIN

SOUTH POLE – BYRD SUPPLEMENT

OCTOBER - DECEMBER, 1960

MSI – 238A

INSTITUTE OF TECHNOLOGY
Department of Geophysics and Geophysical Engineering
TEACHING COLLECTION

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U. S. DEPARTMENT OF COMMERCE
John T. Connor, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
Robert M. White, Administrator

COAST AND GEODETIC SURVEY—WASHINGTON
James C. Tison Jr., Director

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SEISMOLOGICAL BULLETIN
SOUTH POLE-BYRD SUPPLEMENT

October-December 1960

The instrumental results tabulated in this supplement are from the following seismographic stations.

Station	Latitude	Longitude	Foundation	Elevation	Instruments	Components	To (Sec.)	Tg (Sec.)	Time Scale
South Pole (SPA) In Charge: W. S. Jacobs	90°S.	0°	1995 meters of ice	2800 meters	Benioff Paper Wilson-Lamison (120°E. 60°W.)	Z	1.6	0.5	60mm/min.
					Horizontal Film.		5.6	0.48	15mm/min.
Byrd (BYR) In Charge: L.E. Davis	80°01'S.	119°31'W.	2570 meters of ice	1515 meters	Benioff	Z	1.2	0.5	60mm/min.
					Wilson-Lamison with G. E. Galvo.	N	6.2	3.5	30mm/min.
					Wilson-Lamison with G. E. Galvo.	E	7.2	3.5	30mm/min.

These stations were first established by the Coast and Geodetic Survey for the IGY to provide additional control for locating teleseismic epicenters in regions inadequately covered by previously existing stations and to provide data for studies in regional seismicity, crustal structure and other pertinent earth science problems.

International Seismological Centre

Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
Oct. 1	h m s	Oct. 1	h m s	Oct. 2	h m s		h m s
BYR e(P)	02 44 41	BYR e(P)	22 00 39	BYR eP'	18 26 48	SPA eP	19 29 38
Oct. 2		Oct. 1		ePKKP	37 16	Oct. 3	
BYR eP	02 58 28	SPA eP	22 25 57	SPA eP'	18 26 06	BYR eP	20 03 29
SPA eP	02 57 47	Oct. 1		e	27 25	i	03 40
Oct. 1		BYR eP	24 08 17	ePKKP	37 57	SPA eP	20 03 18
BYR iP'	03 19 39	e	08 44	Oct. 2		e	03 29
e	20 11	SPA eP	24 08 26	BYR e(P)	19 43 37	e	04 04
ePKKP	29 41	Oct. 2		Oct. 2		eP'P'	29 21
SPA iP	03 19 21	BYR eP	00 53 38	BYR eP	19 48 30	Oct. 3	
ESKS	25 51	Oct. 2		Oct. 2		BYR eP	22 13 29
Oct. 1		SPA eP	02 12 31	BYR eP	20 22 06	SPA eP	22 13 39
BYR e(P')	05 50 04	Oct. 2		SPA eP	20 22 39	Oct. 3	
SPA eP'	05 49 35	BYR eP	02 20 10	Oct. 2		BYR eP	22 21 02
e	49 53	SPA eP	02 21 25	BYR eP	22 31 15	SPA eP	22 21 25
Oct. 1		Oct. 2		SPA eP	22 32 05	Oct. 3	
SPA eP	06 50 03	BYR eP'	02 57 21	Oct. 2		BYR eP	22 44 05
Oct. 1		Oct. 2		BYR iP	22 45 12	Oct. 4	
BYR eP	08 30 07	BYR iP	04 44 08	SPA eP	22 46 03	BYR eP	01 00 32
Oct. 1		iPP	45 05	Oct. 3		SPA eP	01 00 48
BYR eP	08 36 18	iPcP	46 58	BYR eP'	01 08 26	Oct. 4	
SPA eP	08 36 36	SPA eP	04 43 47	SPA eP'	01 08 03	BYR eP	02 49 55
Oct. 1		e	44 26	Oct. 3		Oct. 4	
BYR iP	09 39 18	eL	49 44	BYR eP'	02 52 28	BYR eP	03 12 50
SPA eP	09 39 56	Oct. 2		Oct. 3		Oct. 4	
Oct. 1		SPA eP	06 12 35	SPA eP	05 17 15	SPA eP	03 18 20
SPA eP	10 51 49	Oct. 2		Oct. 3		Oct. 4	
Oct. 1		BYR eP	07 16 07	BYR iP	05 18 49	BYR eP	03 23 49
BYR iP	11 56 33	SPA eP	07 17 16	ipP	19 02	SPA eP	03 24 38
epP	56 51	Oct. 2		i	19 43	Oct. 4	
SPA eP	11 56 34	BYR eP	07 40 18	SPA eP	05 19 41	BYR eP	05 03 15
epP	56 53	Oct. 2		epP	20 55	SPA eP	05 03 45
Oct. 1		BYR eP	10 30 33	eP'P'	50 18	Oct. 4	
SPA eP	16 11 37	SPA eP	10 30 50	Oct. 3		SPA eP	05 21 10
Oct. 1		Oct. 2		BYR eP	10 25 02	e	28 18
BYR eP'	16 29 43	BYR eP	12 01 34	SPA eP	10 24 51	Oct. 4	
e	33 29	ePP	03 20	e	26 22	BYR eP	05 40 12
e(SKKP)	42 17	e	04 38	e	27 08	SPA eP	05 40 50
SPA eP'	16 30 15	e	08 47	Oct. 3		Oct. 4	
e	30 29	e	14 08	SPA eP	11 58 42	BYR e(P)	06 20 43
ePP	33 20	SPA eP	12 02 44	Oct. 3		Oct. 4	
e	38 33	e	06 31	BYR eP	17 23 10	BYR eP	08 30 04
e(SKKP)	41 52	Oct. 2		SPA eP	17 23 09	e	30 14
Oct. 1		SPA eP	16 06 49	Oct. 3		Oct. 4	
BYR e(P)	18 58 58	Oct. 2		SPA eP	19 04 46	BYR eP	09 11 46
Oct. 1		BYR eP	16 45 41	Oct. 3		SPA eP	09 12 09
BYR e(P)	19 28 49	SPA eP	16 45 22	BYR eP	19 29 14		

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Date and Station	Phase (GCT)	h m s
Oct. 4		
BYR	eP	10 03 26
	e	11 45
SPA	eP	10 03 29
	e	03 53
	e	11 13
Oct. 4		
BYR	eP	10 46 58
Oct. 4		
BYR	e(P)	12 17 50
Oct. 4		
BYR	eP	13 47 49
Oct. 4		
BYR	eP	18 13 24
SPA	eP	18 13 50
Oct. 5		
BYR	eP	00 54 07
Oct. 5		
BYR	eP	01 37 57
SPA	eP	01 38 32
Oct. 5		
BYR	eP	04 19 13
Oct. 5		
SPA	eP	06 58 53
Oct. 5		
BYR	eP	10 11 17
Oct. 5		
BYR	eP	10 35 35
SPA	eP	10 36 05
Oct. 5		
SPA	eP	15 51 58
Oct. 5		
BYR	eP	16 17 44
Oct. 5		
SPA	eP	17 38 34
Oct. 5		
BYR	eP	21 18 05
Oct. 6		
SPA	eP	04 50 26
Oct. 6		
BYR	iP	06 17 27
SPA	iP	06 17 58
Oct. 6		
SPA	eP	07 23 58
Oct. 6		
BYR	eP	08 12 57

Date and Station	Phase (GCT)	h m s
Oct. 6		
SPA	eP	08 32 27
Oct. 6		
BYR	eP	13 35 31
Oct. 6		
BYR	eP	13 48 36
SPA	eP	13 49 56
	e	50 39
	e	53 10
Oct. 6		
BYR	eP	14 28 18
Oct. 6		
BYR	eP	16 24 51
	ePcP	26 32
SPA	eP	16 25 43
Oct. 6		
BYR	eP'	16 38 56
SPA	eP'	16 38 45
Oct. 6		
SPA	eP	16 56 17
Oct. 6		
BYR	eP	16 58 03
SPA	eP	16 57 28
Oct. 6		
BYR	e(P)	17 24 18
SPA	eP	17 24 03
Oct. 6		
BYR	eP	17 41 50
SPA	eP	17 41 40
Oct. 6		
BYR	eP	18 51 47
SPA	eP	18 52 38
Oct. 6		
BYR	eP	19 36 05
	e	36 32
SPA	eP	19 36 45
Oct. 6		
BYR	eP	20 15 17
	i	18 05
	e	26 22
	e(P'P')	34 29
SPA	eP	20 15 21
	e	18 09
	eSKKP	27 15
Oct. 6		
BYR	eP	20 44 50

Date and Station	Phase (GCT)	h m s
Oct. 6		
BYR	eP	20 47 32
Oct. 6		
BYR	eP	21 04 17
	e	05 39
Oct. 6		
SPA	eP	21 14 10
Oct. 6		
BYR	eP	21 20 37
Oct. 6		
SPA	eP	22 06 33
Oct. 6		
BYR	eP	22 16 50
Oct. 6		
BYR	eP	23 22 02
Oct. 6		
BYR	eP	23 27 39
Oct. 7		
BYR	eP	03 27 58
Oct. 7		
BYR	eP'	03 33 11
SPA	eP	03 33 15
Oct. 7		
BYR	eP'	03 35 10
SPA	eP'	03 35 16
Oct. 7		
BYR	eP	04 25 34
Oct. 7		
SPA	eP	07 17 25
Oct. 7		
BYR	eP	11 18 55
SPA	eP	11 19 26
Oct. 7		
BYR	eP	13 25 18
SPA	eP	13 26 10
Oct. 7		
BYR	eP	14 28 58
SPA	eP	14 29 34
Oct. 7		
BYR	eP	15 31 18
	ePP	34 29
	eS	41 30
	eP'P'	57 17
SPA	eP	15 30 51
	es	41 01
	ePKKP	48 51

Date and Station	Phase (GCT)	h m s
Oct. 7		
BYR	eP	16 17 56
Oct. 7		
SPA	eP	16 47 42
Oct. 7		
BYR	e(P)	19 20 30
Oct. 7		
BYR	eP	19 56 54
SPA	eP	19 55 48
Oct. 7		
BYR	eP	20 11 19
SPA	eP	20 12 24
Oct. 7		
BYR	eP	20 57 10
	e	57 24
Oct. 7		
BYR	eP	22 50 52
Oct. 7		
BYR	eP	23 56 37
Oct. 8		
BYR	eP	02 05 22
Oct. 8		
BYR	iP	03 48 32
	e	48 57
SPA	eP	03 49 12
Oct. 8		
SPA	eP'	06 10 49
Oct. 8		
BYR	eP'	06 10 55
	epP'	13 40
Oct. 8		
BYR	eP	08 49 00
	e	51 31
	e	52 04
Oct. 8		
BYR	eP	09 27 06
SPA	eP	09 27 40
Oct. 8		
BYR	eP	09 30 57
SPA	eP	09 31 34
Oct. 8		
SPA	eP	11 24 39
Oct. 8		
SPA	eP	12 03 10
	e	07 28
Oct. 8		
SPA	eP	15 09 36

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Date and Station	Phase	(GCT)
Oct. 8		h m s
BYR	eP	16 14 40
SPA	eP	16 15 58
Oct. 8		
BYR	eP	17 42 40
SPA	eP	17 43 10
Oct. 8		
SPA	eP	18 10 47
Oct. 8		
BYR	eP	19 31 07
SPA	eP	19 31 37
Oct. 8		
BYR	eP	20 54 21
SPA	eP	20 53 41
Oct. 9		
BYR	eP	03 53 35
SPA	eP	03 54 05
Oct. 9		
BYR	eP	04 56 18
SPA	eP	04 56 54
Oct. 9		
BYR	eP'	09 19 22
	i	19 43
	e	20 07
	iSKP	22 58
SPA	eP'	09 19 22
	e	19 38
	eSKP	22 54
	e	28 28
Oct. 9		
SPA	eP	09 54 37
Oct. 9		
BYR	iP	10 02 17
	ipP	02 46
SPA	iP	10 02 52
	ePP	05 36
	e	13 27
Oct. 9		
BYR	eP	12 58 13
Oct. 9		
BYR	eP	13 28 02
SPA	eP	13 27 50
Oct. 9		
BYR	eP	15 21 46
SPA	eP	15 22 39
Oct. 9		
SPA	eP	17 28 57

Date and Station	Phase	(GCT)
Oct. 9		h m s
SPA	eP	18 01 19
Oct. 10		
BYR	eP	00 44 19
Oct. 10		
BYR	eP	01 35 46
Oct. 10		
BYR	eP	04 52 17
Oct. 10		
SPA	eP	07 29 21
Oct. 10		
SPA	eP	10 26 19
Oct. 10		
BYR	eP	11 03 13
SPA	eP	11 02 54
Oct. 10		
BYR	eP	14 27 08
Oct. 10		
BYR	eP	15 05 53
SPA	eP	15 05 53
Oct. 10		
SPA	eP	15 48 45
Oct. 10		
BYR	eP	16 35 13
	e	35 38
SPA	eP	16 35 18
Oct. 10		
SPA	eP	18 51 29
Oct. 10		
SPA	eP	20 28 45
Oct. 10		
SPA	eP	20 52 52
Oct. 10		
BYR	eP	21 57 36
Oct. 10		
BYR	eP	23 37 04
SPA	eP	23 37 52
Oct. 11		
BYR	eP	04 57 43
Oct. 11		
BYR	eP	07 44 59
SPA	eP	07 44 41
Oct. 11		
SPA	eP'	08 24 35

Date and Station	Phase	(GCT)
Oct. 11		h m s
BYR	eP	09 40 48
	e	41 44
	e	43 34
SPA	eP	09 40 29
Oct. 11		
BYR	eP	10 01 00
	e	01 59
SPA	eP	10 00 41
Oct. 11		
SPA	eP	11 04 58
Oct. 11		
BYR	eP	11 26 13
Oct. 11		
BYR	eP	12 45 48
	e	46 50
SPA	eP	12 45 29
	e	46 14
Oct. 11		
BYR	iP	16 19 30
SPA	eP	16 19 13
Oct. 11		
BYR	eP	16 41 36
SPA	eP	16 41 18
Oct. 11		
BYR	eP	18 39 00
SPA	eP	18 38 04
Oct. 11		
BYR	eP	20 59 05
Oct. 11		
BYR	eP	21 59 37
Oct. 12		
BYR	eP'	00 41 07
Oct. 12		
BYR	eP	02 18 51
SPA	eP	02 18 23
Oct. 12		
BYR	e(P)	02 34 11
SPA	e(P)	02 33 23
Oct. 12		
SPA	eP	07 28 16
Oct. 12		
BYR	eP	09 22 23
SPA	eP	09 22 59
Oct. 12		
SPA	eP	09 57 37

Date and Station	Phase	(GCT)
Oct. 12		h m s
SPA	eP	10 08 56
Oct. 12		
SPA	eP	11 24 33
Oct. 12		
SPA	eP	12 05 28
Oct. 12		
BYR	e(P)	17 25 11
SPA	eP	17 24 49
Oct. 12		
BYR	eP	17 51 44
SPA	eP	17 51 23
Oct. 12		
BYR	iP	18 42 00
	epP	42 17
SPA	eP	18 41 57
	epP	42 11
Oct. 12		
BYR	eP	19 34 56
Oct. 12		
BYR	eP	21 12 02
SPA	eP	21 10 49
Oct. 12		
BYR	eP	23 02 51
SPA	eP	23 02 54
Oct. 13		
BYR	eP	00 28 23
SPA	eP	00 29 38
Oct. 13		
BYR	eP	01 11 31
SPA	eP	01 11 21
Oct. 13		
BYR	eP'	02 40 39
Oct. 13		
BYR	eP	06 09 30
	e	13 12
SPA	eP	06 08 17
	eS	13 41
Oct. 13		
BYR	eP	06 34 11
SPA	eP	06 34 41
Oct. 13		
BYR	eP	09 30 00
Oct. 13		
BYR	eP	10 48 23

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Date and Station	Phase	h	m	s
Oct. 13				
BYR	eP	14	26	11
Oct. 13				
BYR	eP'	15	11	57
SPA	eP'	15	12	05
	eSKP	15	40	
	e	18	09	
	eSKKP	23	49	
Oct. 13				
BYR	e(P)	16	03	05
Oct. 13				
BYR	eP	17	31	23
Oct. 13				
BYR	eP	18	52	48
	epP	53	33	
SPA	eP	18	52	51
	epP	53	34	
Oct. 13				
BYR	eP	21	03	56
Oct. 14				
BYR	eP	01	05	16
SPA	eP	01	06	30
Oct. 14				
SPA	eP	01	11	53
Oct. 14				
BYR	eP	01	37	31
SPA	eP	01	38	02
Oct. 14				
BYR	eP	01	50	15
Oct. 14				
BYR	eP'	11	52	27
	eSKS	59	16	
SPA	eP'	11	52	35
Oct. 14				
BYR	eP	12	29	21
SPA	eP	12	28	53
Oct. 14				
BYR	eP'	13	31	28
SPA	eP'	13	31	48
	e	31	56	
Oct. 14				
SPA	eP	14	22	00
Oct. 14				
BYR	eP	15	42	12
	ePP	46	12	
SPA	eP	15	41	59
	eScS	52	17	

Date and Station	Phase	h	m	s
Oct. 14				
BYR	eP	17	56	50
SPA	eP	17	57	39
Oct. 14				
SPA	e	19	45	24
Oct. 14				
BYR	eP	19	45	12
SPA	eP	19	45	24
Oct. 14				
BYR	eP	21	38	12
	e	38	30	
	ePP	41	01	
	eSKP	42	00	
	e	50	44	
SPA	eP	21	38	32
	e	39	41	
	eSKP	42	16	
	e	50	06	
Oct. 14				
BYR	eP'	23	15	11
SPA	eP'	23	15	16
Oct. 14				
BYR	eP	23	22	45
	e	23	10	
SPA	eP	23	23	12
Oct. 15				
BYR	eP	00	22	35
Oct. 15				
BYR	eP'	02	13	39
SPA	eP'	02	13	44
Oct. 15				
SPA	eP	02	47	55
Oct. 15				
BYR	eP	03	05	25
SPA	eP	03	05	38
Oct. 15				
BYR	eP	05	56	32
SPA	eP	05	57	17
Oct. 15				
BYR	e(P)	06	55	26
SPA	eP	06	55	33
Oct. 15				
SPA	eP	08	12	04
Oct. 15				
BYR	eP'	11	48	41
SPA	eP'	11	48	35

Date and Station	Phase	h	m	s
Oct. 15				
BYR	eP	12	23	44
SPA	eP	12	23	50
	e(pP)	25	18	
Oct. 15				
SPA	eP	14	20	24
Oct. 15				
SPA	eP	14	28	10
Oct. 15				
BYR	eP	14	40	49
Oct. 15				
BYR	eP	16	47	21
Oct. 15				
SPA	eP	22	38	54
Oct. 16				
SPA	eP	04	12	25
Oct. 16				
BYR	iP	05	03	33
SPA	eP	05	03	46
	i	04	02	
Oct. 16				
BYR	eP	06	26	30
SPA	eP	06	26	28
Oct. 16				
SPA	eP	07	25	21
Oct. 16				
BYR	eP	09	47	51
Oct. 16				
BYR	eP	10	10	17
Oct. 16				
SPA	eP	12	30	17
Oct. 16				
BYR	iP	13	25	52
	e	26	20	
	e	31	19	
SPA	eP	13	26	29
Oct. 16				
BYR	eP	13	36	40
SPA	eP	13	37	09
	ePP	38	24	
Oct. 16				
BYR	eP	18	09	35
	e	12	35	
SPA	eP	18	10	15
	e	13	12	
Oct. 16				
SPA	eP	19	23	35

Date and Station	Phase	h	m	s
Oct. 16				
BYR	eP	21	54	37
Oct. 16				
SPA	eP	23	14	32
Oct. 17				
SPA	eP	04	08	40
Oct. 17				
SPA	eP	05	44	48
Oct. 17				
BYR	eP	06	22	49
SPA	eP	06	22	32
Oct. 17				
SPA	eP	07	28	05
Oct. 17				
BYR	eP	07	31	37
Oct. 17				
SPA	eP	08	12	11
Oct. 17				
BYR	eP	08	59	20
SPA	eP	08	59	03
Oct. 17				
BYR	eP	10	13	33
SPA	iP	10	14	02
Oct. 17				
BYR	eP	13	44	25
	e	44	57	
	e(PcP)	46	19	
SPA	eP	13	45	31
	ePcP	46	49	
Oct. 17				
BYR	eP	13	55	40
SPA	eP	13	56	21
Oct. 17				
BYR	eP	15	58	20
SPA	eP	15	58	55
	ePKKP	16	15	48
Oct. 17				
BYR	eP	16	08	57
SPA	eP	16	09	32
Oct. 17				
BYR	eP	19	15	49
Oct. 17				
BYR	eP'	19	30	38
Oct. 17				
BYR	eP	22	28	53
	e	30	00	

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Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)
		h m s	Oct. 19		h m s	Oct. 20		h m s	Oct. 22		h m s
SPA	eP	22 29 57	SPA	eP	00 02 23	BYR	eP	14 33 14	BYR	iP	08 33 54
Oct. 17			Oct. 19							ipP	34 09
BYR	eP	22 43 35	BYR	eP	02 11 31	SPA	eP	14 34 07		ePP	36 53
										e	39 03
SPA	eP	22 44 06	SPA	eP	02 11 46	Oct. 20				ePKKP	51 56
						SPA	eP	14 51 48		eP'P'	09 01 19
Oct. 17			Oct. 19								
						Oct. 20			SPA	iP	08 34 03
Oct. 17			BYR	eP'	06 48 25	BYR	eP	15 18 29		e(PP)	36 47
BYR	eP	23 00 02								eScS	44 01
			SPA	eP'	06 48 19	SPA	eP	15 18 43		e	53 00
Oct. 18										eP'P'	09 00 53
BYR	eP	00 10 10	Oct. 19			Oct. 20					
			BYR	eP	07 18 48	BYR	eP	17 12 45	Oct. 22		
SPA	eP	00 10 37							BYR	eP	22 34 50
			SPA	eP	07 19 19	SPA	eP	17 13 23			
Oct. 18				epP	21 22				SPA	eP	22 34 43
BYR	eP'	00 41 06				Oct. 20					
	eSKP	44 46	Oct. 19			BYR	eP'	23 59 27	Oct. 23		
			BYR	eP	10 37 23		eSKP	24 02 41	SPA	eP	01 38 37
SPA	eP'	00 41 12									
	eSKP	44 52	SPA	eP	10 38 47	Oct. 21			Oct. 23		
						BYR	eP	05 21 26	BYR	eP	07 01 28
Oct. 18			Oct. 19								
BYR	eP	03 43 22	BYR	eP	11 13 13	Oct. 21			Oct. 23		
						BYR	eP	06 11 11	SPA	eP	11 25 31
SPA	eP	03 44 15	SPA	eP	11 12 54					e	26 17
						Oct. 21					
Oct. 18			Oct. 19			BYR	eP	06 37 55	Oct. 23		
SPA	eP	05 03 10	SPA	eP	11 47 24				BYR	iP	15 39 37
						Oct. 21				i	40 37
Oct. 18			Oct. 19			BYR	eP	08 09 36			
BYR	eP	05 53 21	SPA	eP	12 33 08				SPA	eP	15 39 16
						Oct. 21				e	40 04
Oct. 18			Oct. 19			BYR	eP	08 20 03		e	45 29
BYR	eP	06 23 19	BYR	eP	14 28 15						
						Oct. 21			Oct. 23		
Oct. 18			SPA	eP	14 29 31	BYR	eP	10 10 50	SPA	eP	17 35 10
BYR	eP	09 29 28		e	35 26						
						SPA	eP	10 11 43	Oct. 23		
SPA	eP	09 30 08	Oct. 19						BYR	eP	19 26 02
			SPA	eP	17 04 39	Oct. 21					
Oct. 18						BYR	iP	13 53 30	Oct. 24		
BYR	eP'	10 46 13	Oct. 19				i	53 40	SPA	eP	00 23 38
			SPA	eP	19 09 56						
Oct. 18						SPA	eP	13 54 12	Oct. 24		
BYR	eP	11 03 12	Oct. 20						SPA	eP	04 11 08
			BYR	eP	23 54 03	Oct. 22					
Oct. 18						BYR	eP	00 17 51	Oct. 24		
BYR	eP	12 20 40	Oct. 20				e	18 40	BYR	eP	05 23 18
			SPA	eP	00 53 18					ePP	25 59
Oct. 18						Oct. 22				e	29 31
BYR	eP	12 45 57	Oct. 20			BYR	eP	03 31 46			
			BYR	eP	04 43 13		e	31 59	SPA	eP	05 23 35
Oct. 18										e	24 24
BYR	eP	14 14 05	SPA	eP	04 43 55	Oct. 22					
						BYR	iP	07 32 13	Oct. 24		
SPA	eP	14 14 29	Oct. 20						BYR	eP	10 24 23
			BYR	iP	11 17 48	SPA	iP	07 31 55			
Oct. 18				e	19 56		e	34 45	SPA	eP	10 24 26
BYR	eP	20 34 02		e	23 05		e	38 15			
									Oct. 24		
Oct. 18			SPA	eP	11 18 02	Oct. 22			BYR	eP	17 21 37
BYR	eP	23 06 41				SPA	eP	08 16 04			
			Oct. 20						SPA	eP	17 21 24
Oct. 18			BYR	eP	13 21 50						
BYR	eP	23 15 30									
			SPA	eP	13 22 21						
SPA	eP	23 15 40									

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Date and Station	Phase (GCT)	h	m	s
Oct. 25				
BYR	eP	01	16	55
Oct. 25				
BYR	eP	01	30	12
Oct. 25				
BYR	eP	04	35	17
Oct. 25				
SPA	eP	06	58	17
Oct. 25				
SPA	eP	07	25	19
Oct. 25				
BYR	eP	09	49	05
SPA	eP	09	49	08
Oct. 25				
SPA	eP	10	42	52
Oct. 25				
SPA	eP	11	06	40
Oct. 25				
BYR	eP	12	22	24
	e		25	22
SPA	eP	12	23	17
Oct. 25				
BYR	eP	16	08	21
Oct. 25				
BYR	eP	18	37	28
SPA	eP	18	37	46
Oct. 25				
BYR	iP	19	24	16
	e		24	35
	i		24	45
	e		27	21
SPA	eP	19	24	56
	e		25	16
	e		27	47
Oct. 25				
BYR	eP	22	11	54
SPA	eP	22	12	26
Oct. 26				
BYR	eP	01	39	40
Oct. 26				
BYR	eP	01	56	28
Oct. 26				
BYR	eP'	02	07	29
Oct. 26				
BYR	eP	02	31	47
Oct. 26				
BYR	iP	03	00	42

Date and Station	Phase (GCT)	h	m	s
Oct. 26				
SPA	eP	05	00	47
Oct. 26				
BYR	eP	05	56	34
SPA	eP	05	56	09
Oct. 26				
BYR	eP	07	10	03
SPA	eP	07	09	35
Oct. 26				
BYR	eP	09	50	25
Oct. 26				
BYR	eP	11	38	35
SPA	eP	11	38	09
Oct. 26				
BYR	eP	12	08	56
Oct. 26				
BYR	eP	14	15	34
SPA	eP	14	16	02
Oct. 26				
BYR	iP	14	56	43
	epP		57	15
SPA	eP	14	57	24
	eScP	15	02	23
Oct. 26				
BYR	eP	16	46	23
SPA	eP	16	47	04
Oct. 26				
BYR	iP	17	44	32
SPA	eP	17	45	00
Oct. 26				
BYR	eP	18	22	11
Oct. 26				
BYR	eP	18	27	20
SPA	eP	18	28	00
Oct. 26				
SPA	eP	20	01	17
Oct. 26				
BYR	iP	20	05	05
SPA	eP	20	04	43
Oct. 27				
BYR	eP	00	26	54
SPA	eP	00	27	34
Oct. 27				
BYR	eP	00	36	21

Date and Station	Phase (GCT)	h	m	s
SPA	eP	00	37	01
Oct. 27				
BYR	eP	03	29	36
Oct. 27				
BYR	eP	05	37	31
SPA	eP	05	38	08
Oct. 27				
BYR	eP	07	53	19
Oct. 27				
BYR	eP	11	30	07
SPA	eP	11	30	22
Oct. 27				
BYR	eP	11	43	24
SPA	eP	11	43	53
Oct. 27				
BYR	iP	13	47	55
SPA	eP	13	48	32
Oct. 27				
BYR	eP	14	59	52
SPA	eP	14	59	14
Oct. 27				
SPA	eP	15	54	37
Oct. 27				
SPA	e(P')	16	00	12
	e		06	20
Oct. 27				
BYR	eP	18	28	35
Oct. 27				
BYR	eP	19	55	15
SPA	eP	19	55	18
Oct. 27				
BYR	iP	22	38	40
	epP		39	41
	e		44	56
	eP'P'	23	06	44
SPA	eP	22	39	12
	e		43	04
	eP'P'	23	06	14
Oct. 27				
SPA	eP	23	58	43
Oct. 28				
BYR	eP	00	14	02
SPA	eP	00	14	55
Oct. 28				
BYR	eP	02	40	35

Date and Station	Phase (GCT)	h	m	s
SPA	eP	02	40	02
Oct. 28				
BYR	eP'	04	38	54
	e		39	34
	ePP		43	23
SPA	eP'	04	39	26
	e(PP)		43	16
Oct. 28				
BYR	eP	04	59	41
Oct. 28				
BYR	e(P')	08	07	35
SPA	eP'	08	07	20
Oct. 28				
BYR	eP	10	09	16
SPA	eP	10	10	06
Oct. 28				
BYR	eP	10	38	26
Oct. 28				
BYR	eP	11	26	30
SPA	eP	11	26	27
Oct. 28				
BYR	eP	12	34	38
SPA	eP	12	34	40
Oct. 28				
BYR	eP	13	09	48
SPA	eP	13	09	42
Oct. 28				
BYR	eP'	13	37	24
	e		37	35
	ipP'		38	02
	isP'		38	20
	eSKP		40	59
	e		49	21
SPA	eP	13	37	30
	eSKP		41	04
	e		48	57
	eSKKP		49	27
	e		50	15
	e		52	37
	e	14	21	55
Oct. 28				
SPA	eP	17	46	37
Oct. 28				
SPA	eP	20	44	03
Oct. 28				
BYR	eP'	22	48	23
SPA	eP'	22	48	20
	e		54	24

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Date and Station	Phase	(GCT)
		h m s
Oct. 29		
SPA	eP	07 21 33
Oct. 29		
SPA	e(P)	07 58 44
Oct. 29		
BYR	eP	09 48 39
SPA	eP	09 49 14
	e	50 41
Oct. 29		
BYR	eP	11 35 28
Oct. 29		
BYR	iP	13 32 22
	e	32 49
SPA	eP	13 33 00
Oct. 30		
BYR	eP	09 01 38
Oct. 30		
BYR	eP	09 14 07
Oct. 30		
BYR	iP	10 33 28
Oct. 30		
BYR	eP	12 24 42
	eS	32 21
	e	41 18
	e	44 01
	eP'P'	54 01
SPA	eP	12 25 24
	e	32 14
	e	41 59
	e	44 40
	eP'P'	53 52
Oct. 30		
BYR	iP	13 22 03
	i	22 11
SPA	eP	13 22 44
Oct. 30		
BYR	eP	16 04 04
SPA	eP	16 03 44
Oct. 30		
BYR	eP'	16 35 37
	ipP'	35 48
SPA	eP	16 35 43
Oct. 30		
BYR	eP	17 28 25
SPA	eP	17 29 07
Oct. 30		
SPA	eP	17 51 37

Date and Station	Phase	(GCT)
		h m s
Oct. 30		
BYR	iP	18 46 45
SPA	eP	18 47 26
Oct. 30		
SPA	eP	20 39 24
Oct. 30		
BYR	iP	21 43 00
	i	43 25
	e	22 05 09
	eP'P'	11 28
SPA	iP	21 43 39
	e(PP)	46 28
	eP'P'	22 12 07
	eSKPP'	15 55
Oct. 31		
SPA	eP	00 51 31
Oct. 31		
BYR	eP	02 56 07
Oct. 31		
BYR	eP'	07 23 33
Oct. 31		
BYR	eP	11 21 59
SPA	eP	11 22 49
Oct. 31		
SPA	eP	13 05 40
Oct. 31		
BYR	iP	14 50 50
SPA	eP	14 51 40
Oct. 31		
BYR	eP	15 55 22
SPA	eP	15 55 59
Oct. 31		
SPA	eP	22 26 13
Nov. 1		
BYR	eP	00 03 48
Nov. 1		
SPA	eP	00 33 49
Nov. 1		
BYR	eP	00 49 06
SPA	eP	00 49 07
Nov. 1		
BYR	eP	05 35 33
	e	36 04
SPA	eP	05 36 11
Nov. 1		
BYR	eP	06 27 50

Date and Station	Phase	(GCT)
		h m s
SPA	eP	06 27 33
Nov. 1		
BYR	e(P)	08 27 10
SPA	eP	08 27 11
Nov. 1		
BYR	eP	08 54 13
	eS	09 00 52
	e	06 26
	eP'P'	24 35
	e	29 37
SPA	eP	08 55 04
	eS	09 02 27
	eL	12 13
	eP'P'	24 40
	e	25 27
Nov. 1		
BYR	eP	09 46 09
Nov. 1		
BYR	iP	10 00 24
SPA	eP	10 01 16
Nov. 1		
BYR	eP	10 37 08
SPA	eP	10 36 32
Nov. 1		
SPA	eP	10 57 27
Nov. 1		
BYR	eP	11 13 47
SPA	eP	11 14 39
Nov. 1		
BYR	eP	11 47 31
Nov. 1		
BYR	eP	11 58 21
SPA	eP	11 57 31
Nov. 1		
BYR	eP	12 37 44
	epP	37 58
	ePP	39 36
SPA	eP	12 38 35
	e	44 23
	eP'P'	13 09 17
Nov. 1		
BYR	eP	14 11 59
SPA	eP	14 12 50
Nov. 1		
BYR	eP	14 18 03
SPA	eP	14 18 54

Date and Station	Phase	(GCT)
		h m s
Nov. 1		
BYR	eP	15 58 58
SPA	eP	15 59 49
Nov. 1		
BYR	e(P)	16 16 12
SPA	eP	16 17 03
Nov. 1		
BYR	eP	16 35 04
SPA	eP	16 35 33
Nov. 1		
BYR	eP	17 04 49
SPA	eP	17 05 40
Nov. 1		
BYR	eP	18 02 37
SPA	eP	18 03 28
Nov. 1		
BYR	eP	18 14 16
SPA	eP	18 15 17
Nov. 1		
BYR	eP'	19 25 22
	eSKP	28 46
SPA	eP	19 25 26
	eSKP	28 50
Nov. 1		
BYR	eP	20 36 23
SPA	eP	20 37 15
Nov. 1		
BYR	eP	20 51 29
SPA	iP	20 51 59
Nov. 1		
BYR	eP	22 13 54
Nov. 1		
BYR	eP	23 28 04
Nov. 1		
BYR	eP	24 07 40
Nov. 2		
BYR	eP	00 37 23
Nov. 2		
BYR	eP	00 44 22
Nov. 2		
BYR	eP	03 21 09
Nov. 2		
BYR	eP	03 34 50
Nov. 2		
BYR	eP	04 38 43

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Date and Station	Phase (GCT)	h m s
Nov. 2		
BYR	eP	05 43 40
Nov. 2		
BYR	eP	06 45 56
Nov. 2		
SPA	eP'	15 49 24
Nov. 2		
BYR	eP	16 37 14
Nov. 2		
BYR	eP	16 50 38
Nov. 2		
BYR	eP	17 26 29
Nov. 2		
BYR	eP	18 19 20
	ePcP	20 23
Nov. 2		
BYR	eP	19 31 44
	e	36 31
Nov. 2		
BYR	eP	20 04 05
Nov. 3		
BYR	eP	02 14 39
SPA	eP	02 14 22
Nov. 3		
BYR	eP	02 53 21
Nov. 3		
BYR	e(P)	05 04 05
Nov. 3		
BYR	eP	07 44 04
Nov. 3		
BYR	eP	07 53 05
Nov. 3		
BYR	eP	16 18 01
Nov. 3		
BYR	eP	16 45 33
SPA	eP	16 46 25
Nov. 3		
BYR	eP	17 41 33
SPA	eP	17 42 03
Nov. 3		
BYR	eP	20 53 55
SPA	eP	20 53 39
Nov. 3		
BYR	eP	21 40 19
SPA	eP	21 41 21

Date and Station	Phase (GCT)	h m s
Nov. 3		
BYR	eP	22 13 24
SPA	eP	22 14 02
Nov. 3		
BYR	eP	23 18 46
SPA	eP	23 19 38
Nov. 4		
SPA	eP	00 18 09
Nov. 4		
SPA	eP	01 51 13
Nov. 4		
BYR	eP	05 03 49
SPA	eP	05 04 41
Nov. 4		
BYR	eP	08 00 08
Nov. 4		
BYR	eP	11 49 54
Nov. 4		
BYR	iP	11 54 53
Nov. 4		
BYR	eP	12 13 12
Nov. 4		
BYR	eP	14 31 24
Nov. 4		
SPA	eP	18 24 56
	e(PP)	26 30
Nov. 4		
BYR	eP	20 29 40
Nov. 5		
BYR	eP'	01 10 28
Nov. 5		
BYR	eP	04 30 06
Nov. 5		
BYR	eP	05 37 44
Nov. 5		
BYR	eP	07 45 39
Nov. 5		
BYR	eP	11 42 24
	e	42 42
Nov. 5		
BYR	eP	12 50 37
SPA	eP	12 51 29
Nov. 5		
BYR	iP	13 14 14
Nov. 5		
BYR	eP	15 04 30

Date and Station	Phase (GCT)	h m s
SPA	eP	15 03 50
Nov. 5		
BYR	eP	16 10 11
SPA	eP	16 11 00
Nov. 5		
BYR	eP	16 16 46
Nov. 5		
BYR	eP	17 02 54
	ePcP	03 54
SPA	eP	17 03 24
Nov. 5		
BYR	eP	17 30 36
	e	31 49
SPA	eP	17 29 52
Nov. 5		
BYR	eP	18 15 51
Nov. 5		
BYR	eP	18 38 07
SPA	eP	18 38 57
Nov. 5		
BYR	eP'	20 40 05
	ePP	42 59
SPA	eP'	20 39 52
	ePP	42 02
Nov. 5		
BYR	e(P)	22 45 40
SPA	eP	22 45 37
Nov. 6		
BYR	eP'	04 57 36
	iSKP	05 01 17
	e	09 21
SPA	eP'	04 57 44
	eSKP	05 01 05
	e	07 04
Nov. 6		
BYR	eP	06 24 15
	ePP	26 15
	e	31 08
	eS	32 04
	e	38 34
	eP'P'	54 16
SPA	eP	06 24 49
	eS	32 10
	eP'P'	54 19
Nov. 6		
SPA	eP	07 32 07
Nov. 6		
SPA	eP	08 47 29

Date and Station	Phase (GCT)	h m s
Nov. 6		
BYR	eP	10 26 53
Nov. 6		
BYR	e(P)	15 17 06
SPA	eP	15 17 50
Nov. 6		
BYR	eP	17 41 09
Nov. 6		
BYR	eP	22 10 06
Nov. 6		
BYR	eP	22 29 23
	eSKP	32 51
	e	40 34
SPA	eP	22 29 31
	eSKP	33 27
Nov. 7		
BYR	eP	01 25 06
Nov. 7		
BYR	eP	05 57 43
Nov. 7		
BYR	eP	07 35 50
Nov. 7		
BYR	eP	13 41 42
	ePP	43 43
SPA	eP	13 42 01
Nov. 7		
BYR	eP	14 31 01
Nov. 7		
BYR	eP	14 34 14
SPA	eP	14 33 56
Nov. 7		
BYR	eP	16 38 38
Nov. 7		
BYR	eP	16 49 04
	e	49 45
Nov. 7		
SPA	eP	19 19 53
Nov. 7		
BYR	iP	22 26 28
SPA	eP	22 27 19
Nov. 7		
SPA	eP	23 18 49
Nov. 7		
BYR	eP	23 35 14
Nov. 8		
BYR	eP	24 06 34

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Date and Station		Phase (GCT)	Date and Station		Phase (GCT)	Date and Station		Phase (GCT)	Date and Station		Phase (GCT)
		h m s	Nov. 8		h m s	Nov. 9		h m s	Nov. 10		h m s
SPA	eP	24 06 35	BYR	eP	13 54 38	BYR	eP'	11 02 39	BYR	eP	05 57 05
Nov. 8			SPA	iP	13 55 51		e	02 55			
BYR	eP	00 00 50	Nov. 8				eSKP	06 16	SPA	eP	05 57 46
SPA	eP	00 01 06	SPA	eP'	14 04 17		eSKKP	15 48	Nov. 10		
Nov. 8			Nov. 8			SPA	eP'	11 02 35	SPA	eP	06 55 40
BYR	eP	00 13 12	BYR	eP	14 34 20		eP'P'	20 29			
						Nov. 9			Nov. 10		
SPA	eP	00 13 48	Nov. 8			BYR	eP	11 38 34	BYR	iP	14 57 44
Nov. 8			BYR	eP	19 24 01					e(PP)	15 00 49
BYR	eP	00 42 43	Nov. 8			SPA	eP	11 38 17		e(PPP)	03 41
			BYR	eP	19 58 52					eS	08 29
SPA	eP	00 43 20				Nov. 9				e	09 55
Nov. 8			SPA	eP	19 59 11	BYR	eP	12 02 44		e	14 57
BYR	iP	01 25 54	Nov. 8						SPA	eP	14 57 33
			BYR	eP	20 41 03	SPA	eP	12 02 22		ePP	15 00 56
SPA	eP	01 26 46						-		e(S)	08 56
Nov. 8			SPA	eP	20 40 54	Nov. 9				e	10 19
BYR	eP	02 53 12	Nov. 8			BYR	eP	13 32 53		e	15 27
			BYR	eP	20 48 43				Nov. 10		
SPA	eP	02 53 47				Nov. 9			BYR	eP	16 40 39
Nov. 8			SPA	eP	20 49 21	BYR	eP	17 44 00			
									SPA	eP	16 41 01
SPA	eP	05 33 48	Nov. 8			SPA	eP	17 44 33			
			BYR	e(P)	22 01 15				Nov. 10		
Nov. 8						Nov. 9			BYR	eP	17 27 06
BYR	eP'	05 41 27	Nov. 8			BYR	eP	18 40 24			
	eSKP	44 52	BYR	eP	22 04 20				SPA	eP	17 27 47
						SPA	eP	18 40 18			
SPA	eP	05 41 29	Nov. 9						Nov. 10		
			BYR	iP	01 27 52	Nov. 9			BYR	eP	18 07 12
Nov. 8				epP	28 23	BYR	eP	19 42 02			
BYR	eP'	05 46 39		eP'P'	57 02				SPA	eP	18 07 54
	eSKP	50 04				SPA	eP	19 42 37			
			SPA	eP	01 28 30				Nov. 10		
SPA	eP	05 46 42		eP'P'	57 20	Nov. 9			SPA	eP	18 51 13
						BYR	eP	20 16 26			
Nov. 8			Nov. 9				e	17 56	Nov. 10		
BYR	e(P)	07 39 34	BYR	iP	03 24 22		e	19 42	BYR	iP	20 00 30
				iS	29 35		eP'P'	45 16			
Nov. 8				e	43 41				SPA	eP	20 01 21
BYR	eP	08 34 57		e	53 06	SPA	eP	20 17 07			
				eP'P'	56 00		e	20 22	Nov. 10		
SPA	eP	08 35 48					eP'P'	45 36	BYR	e(P)	23 59 58
	e	42 16	SPA	eP	03 24 01						
				eS	28 48	Nov. 9			Nov. 11		
Nov. 8				eL	33 05	SPA	eP	23 03 00	SPA	eP	00 59 47
BYR	e(P)	09 43 52		e	52 25						
				eP'P'	56 13	Nov. 10			Nov. 11		
Nov. 8						SPA	eP	00 58 10	BYR	eP	01 20 53
SPA	eP	09 48 19	Nov. 9								
			BYR	eP	04 53 17	Nov. 10			SPA	eP	01 20 25
SPA	eP	10 29 27				SPA	eP	01 21 31			
	e	33 42	SPA	eP	04 52 59				Nov. 11		
	e	37 28				Nov. 10			BYR	eP	02 09 41
			Nov. 9			BYR	eP'	02 14 02			
Nov. 8			BYR	eP	07 13 30				Nov. 11		
BYR	eP	11 09 11				SPA	eP'	02 13 40	BYR	eP	03 39 31
			Nov. 9								
SPA	eP	11 09 46	BYR	e(P)	08 59 05	Nov. 10			Nov. 11		
						BYR	eP	03 39 22	BYR	eP	04 17 16
Nov. 8											
SPA	eP	13 52 22				SPA	eP	03 39 05	Nov. 1		
									BYR	eP'	05 50 52
						Nov. 10					
						BYR	eP	04 43 37			

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Date and Station	Phase (GCT)	h m s
Nov. 11		
BYR	eP	06 10 13
SPA	eP	06 11 22
Nov. 11		
BYR	eP	06 24 24
Nov. 11		
BYR	eP	06 41 03
Nov. 11		
BYR	eP	07 04 12
	e	04 43
Nov. 11		
BYR	eP	08 00 51
SPA	eP	08 01 33
Nov. 11		
BYR	eP	09 04 20
Nov. 11		
SPA	eP	10 33 53
Nov. 11		
BYR	eP	11 00 12
Nov. 11		
BYR	eP	13 42 51
SPA	eP	13 43 26
Nov. 11		
BYR	eP	14 04 40
SPA	eP	14 04 47
Nov. 11		
BYR	iP	15 30 53
SPA	eP	15' 31 35
Nov. 11		
BYR	eP	18 40 00
Nov. 11		
BYR	eP	21 24 13
	e	25 04
SPA	eP	21 23 51
	e	24 31
Nov. 11		
BYR	eP	22 33 56
SPA	eP	22 34 37
Nov. 11		
BYR	eP	23 01 03
	e	02 04
Nov. 12		
BYR	eP	00 45 00
Nov. 12		
BYR	e(P)	00 57 51

Date and Station	Phase (GCT)	h m s
Nov. 12		
SPA	eP	06 04 23
Nov. 12		
SPA	eP	06 32 10
Nov. 12		
BYR	eP	07 02 55
	e	03 21
Nov. 12		
BYR	iP	08 03 57
SPA	eP	08 04 50
Nov. 12		
BYR	eP	08 37 58
SPA	eP	08 38 48
Nov. 12		
BYR	eP	08 45 55
SPA	eP	08 46 44
Nov. 12		
BYR	eP	10 52 04
Nov. 12		
BYR	eP	11 05 43
	ePP	08 50
SPA	eP	11 05 48
Nov. 12		
BYR	eP	11 31 39
Nov. 12		
BYR	eP	12 25 38
Nov. 12		
BYR	eP	14 01 57
Nov. 12		
BYR	eP	14 27 56
Nov. 12		
BYR	eP	17 02 31
	e	02 57
SPA	eP	17 03 09
Nov. 12		
BYR	eP	18 56 15
Nov. 12		
BYR	eP	18 59 30
Nov. 12		
BYR	eP	22 00 33
SPA	eP	22 00 19
Nov. 12		
BYR	eP	23 15 38
Nov. 13		
BYR	eP	03 38 24

Date and Station	Phase (GCT)	h m s
Nov. 13		
BYR	eP	03 56 30
SPA	eP	03 56 12
Nov. 13		
BYR	eP	04 45 13
Nov. 13		
SPA	eP	05 21 08
Nov. 13		
BYR	eP	06 39 55
Nov. 13		
BYR	eP	06 50 27
	iPP	54 18
	eSKS	07 00 51
	eS	01 30
	ePKKP	07 20
SPA	eP	06 50 08
	ePP	53 46
	eSKS	07 00 30
	eS	00 57
	ePKKP	07 14
Nov. 13		
BYR	eP	07 20 52
	e	21 22
SPA	eP	07 21 53
Nov. 13		
SPA	eP	09 24 26
	e	25 31
Nov. 13		
BYR	eP'	09 39 40
	ePP	43 19
	eSKKP	52 31
SPA	eP'	09 39 54
	eSKP	44 39
	e	47 34
	eSKKP	51 11
	e	55 02
	eP'P'	10 00 20
Nov. 13		
SPA	eP	10 51 28
Nov. 13		
BYR	eP'	12 44 49
SPA	eP'	12 44 59
Nov. 13		
BYR	eP'	13 43 43
SPA	eP'	13 43 48
Nov. 13		
BYR	eP'	14 11 41
Nov. 13		
BYR	eP'	14 48 30

Date and Station	Phase (GCT)	h m s
Nov. 13		
BYR	iP	17 17 38
SPA	iP	17 18 07
Nov. 13		
SPA	eP'	17 38 33
Nov. 13		
BYR	eP	19 32 19
	e	32 41
SPA	eP	19 32 50
	e	33 11
Nov. 13		
BYR	eP	20 08 35
SPA	eP	20 09 27
Nov. 13		
BYR	eP	20 24 25
Nov. 13		
SPA	eP'	21 04 22
Nov. 13		
BYR	eP	21 31 17
SPA	eP	21 31 49
Nov. 13		
BYR	eP	21 42 51
SPA	eP	21 43 27
Nov. 14		
BYR	eP	01 27 51
Nov. 14		
BYR	eP	02 15 35
Nov. 14		
SPA	eP	03 36 50
Nov. 14		
SPA	eP	04 08 51
Nov 14		
BYR	eP	04 24 38
SPA	eP	04 24 13
Nov. 14		
SPA	eP	05 12 29
Nov. 14		
SPA	eP	05 50 39
Nov. 14		
BYR	eP	08 02 45
Nov. 14		
BYR	eP	08 43 25
SPA	eP	08 43 55

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Date and Station	Phase (GCT)	h m s
Nov. 14		
BYR	eP	09 02 27
SPA	eP	09 02 57
Nov. 14		
BYR	eP	09 06 59
SPA	eP	09 07 29
Nov. 14		
BYR	eP	09 43 18
SPA	eP	09 43 48
Nov. 14		
BYR	eP	09 51 21
SPA	eP	09 51 52
Nov. 14		
BYR	eP	12 20 26
SPA	eP	12 20 19
Nov. 14		
BYR	e(P)	16 15 20
Nov. 14		
BYR	eP	18 03 16
	epP	05 02
SPA	eP	18 03 46
	epP	05 38
Nov. 15		
BYR	eP	01 07 33
Nov. 15		
BYR	eP	01 58 51
Nov. 15		
BYR	eP	02 23 07
Nov. 15		
BYR	eP	02 40 54
Nov. 15		
BYR	eP	05 18 23
Nov. 15		
BYR	eP	05 41 04
Nov. 15		
BYR	eP	05 43 36
Nov. 15		
BYR	eP	05 45 10
Nov. 15		
BYR	eP	05 48 55
Nov. 15		
BYR	eP	06 28 11
	eS	32 22
SPA	eP	06 29 15
	e	31 07

Date and Station	Phase (GCT)	h m s
Nov. 15		
SPA	eP	06 43 40
Nov. 15		
SPA	eP	08 03 26
Nov. 15		
BYR	eP	09 18 22
Nov. 15		
BYR	iP'	09 24 55
	e(SKP)	27 58
SPA	eP	09 24 29
	eSKS	31 05
Nov. 15		
BYR	eP	11 22 44
SPA	eP	11 22 05
Nov. 15		
BYR	eP	13 07 28
Nov. 15		
BYR	eP	14 42 28
Nov. 15		
BYR	eP	14 54 45
SPA	eP	14 55 34
Nov. 15		
BYR	eP	15 18 30
Nov. 15		
BYR	eP	15 20 35
SPA	eP	15 21 26
Nov. 15		
BYR	eP	17 02 56
Nov. 15		
BYR	eP	18 09 34
Nov. 15		
BYR	eP	21 49 08
Nov. 15		
SPA	eP	21 49 39
Nov. 15		
BYR	eP	22 47 10
Nov. 16		
BYR	eP	00 14 23
Nov. 16		
BYR	eP	01 32 41
	e(pP)	34 40
Nov. 16		
BYR	eP	01 51 19
Nov. 16		
SPA	eP	02 43 34

Date and Station	Phase (GCT)	h m s
Nov. 16		
BYR	eP	03 21 08
Nov. 16		
BYR	eP	04 14 45
Nov. 16		
BYR	eP	06 00 13
SPA	eP	05 59 51
Nov. 16		
BYR	eP	07 13 43
Nov. 16		
SPA	eP	13 34 16
Nov. 16		
BYR	eP	15 51 34
SPA	eP	15 52 11
Nov. 16		
SPA	eP	16 03 45
Nov. 16		
BYR	eP	16 21 28
	e	24 03
SPA	eP	16 20 44
	e	23 20
Nov. 16		
SPA	eP	19 11 14
Nov. 16		
SPA	e(P)	19 56 42
Nov. 16		
SPA	eP	20 47 43
Nov. 16		
BYR	e(P)	23 30 36
Nov. 17		
BYR	eP	01 37 00
SPA	eP	01 37 50
Nov. 17		
BYR	eP	04 17 23
SPA	eP	04 17 58
Nov. 17		
BYR	iP	05 23 36
SPA	eP	05 24 31
Nov. 17		
BYR	eP	05 39 34
	e	39 55
Nov. 17		
BYR	e(P)	06 15 14
Nov. 17		
BYR	eP	09 12 36
SPA	eP	09 12 42

Date and Station	Phase (GCT)	h m s
Nov. 17		
BYR	e(P)	09 46 47
SPA	eP	09 45 32
Nov. 17		
SPA	eP	10 12 32
Nov. 17		
SPA	eP	13 57 24
	e	58 22
Nov. 17		
BYR	eP	14 09 02
SPA	eP	14 09 05
Nov. 17		
SPA	eP	18 09 04
Nov. 17		
BYR	eP	19 06 54
Nov. 17		
BYR	eP'	20 06 05
SPA	eP'	20 06 14
Nov. 17		
BYR	eP	20 23 34
Nov. 17		
BYR	eP	20 27 02
Nov. 17		
BYR	e(P)	20 46 08
Nov. 17		
BYR	eP	21 27 59
	e	29 20
	eS	32 26
	eL	34 26
	e	37 16
	eP'P'	22 00 45
SPA	eP	21 29 28
Nov. 17		
BYR	eP	22 34 20
Nov. 18		
BYR	e(P)	00 35 04
Nov. 18		
BYR	eP	04 20 45
Nov. 18		
BYR	eP	05 12 03
SPA	eP	05 10 57
Nov. 18		
SPA	eP	06 14 30
Nov. 18		
SPA	eP'	06 22 35

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Date and Station		Phase (GCT)	Date and Station		Phase (GCT)	Date and Station		Phase (GCT)	Date and Station		Phase (GCT)
		h m s			h m s			h m s			h m s
Nov. 18			Nov. 19								
BYR	eP	08 17 57	BYR	eP	19 46 43	SPA	eP	08 51 43	SPA	eP	07 28 43
	e	18 22								e	29 48
SPA	eP	08 18 31	Nov. 20			Nov. 21				ePP	31 54
Nov. 18			SPA	eP	04 17 01	BYR	eP	11 11 09	Nov. 22		
SPA	eP	10 00 19	Nov. 20			Nov. 21			SPA	eP	09 27 31
Nov. 18			BYR	eP	11 00 49	SPA	eP	15 49 39	Nov. 22		
BYR	iP	12 52 50	SPA	eP	11 01 27	Nov. 21			SPA	iP	09 43 48
SPA	iP	12 53 28	Nov. 20			SPA	eP	16 30 22	Nov. 22		
Nov. 18			BYR	eP	11 30 51	Nov. 21			BYR	iP	12 36 55
SPA	eP	15 35 19	SPA	eP	11 30 50	BYR	e(P)	18 43 00		eP'P'	13 08 25
Nov. 18			Nov. 20			Nov. 21			SPA	eP	12 37 46
SPA	eP	20 24 52	BYR	eP	13 35 10	BYR	eP'	19 03 31		eS	45 04
Nov. 18			SPA	eP	13 36 17		epP'	03 55		eP'P'	13 08 19
SPA	eP	21 55 07	Nov. 20				ePP	06 56	Nov. 22		
Nov. 19			BYR	eP	13 50 03	SPA	eP'	19 03 29	SPA	e(P)	13 50 02
BYR	e(P)	02 00 51	Nov. 20			Nov. 21			Nov. 22		
Nov. 19			BYR	eP	13 55 50	BYR	eP	20 09 21	SPA	eP	13 54 20
BYR	iP	04 59 37	SPA	eP	13 56 59	SPA	eP	20 10 03	Nov. 22		
SPA	eP	05 00 14	Nov. 20			Nov. 22			SPA	eP	21 42 15
Nov. 19			BYR	eP	20 00 31	SPA	eP	02 12 10	Nov. 23		
BYR	iP	06 26 26	Nov. 20			Nov. 22			BYR	iP	01 37 00
SPA	eP	06 26 55	BYR	eP	22 00 43	BYR	eP	02 44 01	Nov. 23		
	e	33 24	Nov. 20			SPA	eP	02 44 43	BYR	iP	04 23 18
Nov. 19			BYR	eP	22 13 37	Nov. 22				epP	24 56
BYR	eP	06 40 51		eS	23 22	BYR	eP	03 42 37		ePKKP	50 55
Nov. 19			SPA	eP	22 14 19	SPA	eP	03 43 13	SPA	eP	04 23 21
BYR	eP	07 15 01		e	21 03	Nov. 22				eS	33 03
SPA	iP	07 15 30		eSKS	26 18	BYR	eP	03 56 03	Nov. 23		
Nov. 19				eL	40 11	SPA	eP	03 56 38	BYR	eP	09 54 55
BYR	eP	09 11 01		eP'P'	40 50	Nov. 22			SPA	eP	09 54 55
SPA	eP	09 12 08		eSKPP'	44 27	BYR	iP	04 13 39	Nov. 23		
Nov. 19			Nov. 21			SPA	eP	04 14 12	BYR	e(P)	13 39 22
BYR	eP	12 30 30	BYR	eP	02 45 30	Nov. 22			Nov. 23		
	ePP	34 40	SPA	eP	02 46 00	BYR	eP	06 32 07	BYR	eP	14 22 14
SPA	eP	12 30 24	Nov. 21				ePP	34 05		i	22 20
Nov. 19			BYR	eP	04 33 28		ePPP	36 01		ePP	24 14
SPA	eP	13 31 41	SPA	eP	04 34 10		e	37 18		ePPP	25 44
Nov. 19			Nov. 21				eP'P'	07 01 06		eS	30 40
SPA	eP	18 57 29	BYR	iP	04 41 00	SPA	eP	06 31 10		e	33 13
Nov. 19				epP	42 24		ePcP	32 19		eP'P'	51 27
BYR	eP'	19 44 20	SPA	eP	04 41 11		e	36 27	Nov. 23		
SPA	eP'	19 44 00		e	49 05		eS	38 51	SPA	eP	14 23 06
			Nov. 21				eP'P'	07 01 29		ePP	25 22
			BYR	e(P)	05 05 23	Nov. 22				e(S)	32 01
			Nov. 21			BYR	eP'	07 28 34		e	34 06
			BYR	eP	08 50 51		i	28 45		e	46 59
							ePP	32 15		eP'P'	51 22
							eSKP	32 41	Nov. 23		
									SPA	eP	15 45 35

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Date and Station		Phase	(GCT)	h	m	s
Nov. 23						
SPA		eP		15	54	10
		e		16	06	51
Nov. 23						
BYR		eP		17	05	42
		e			08	13
		ePP			09	28
SPA		eP		17	05	23
		e(PP)			08	48
		eS			15	36
Nov. 23						
BYR		eP		17	39	03
		e			39	49
SPA		eP		17	39	39
Nov. 23						
BYR		iP		18	06	47
		ePˈPˈ			36	19
SPA		iP		18	07	23
		e			10	07
		ePˈPˈ			35	42
Nov. 23						
BYR		eP		18	43	51
SPA		eP		18	44	27
Nov. 23						
SPA		eP		18	53	45
Nov. 23						
SPA		eP		19	25	08
Nov. 23						
BYR		eP		20	21	17
SPA		eP		20	21	52
Nov. 23						
SPA		eP		20	29	25
Nov. 23						
BYR		eP		21	18	17
SPA		eP		21	18	58
Nov. 23						
BYR		eP		21	24	03
SPA		eP		21	24	33
		epP			26	29
Nov. 24						
SPA		eP		01	22	26
		e			23	37
Nov. 24						
BYR		eP		01	43	35
Nov. 24						
BYR		eP		02	35	52

Date and Station		Phase	(GCT)	h	m	s
Nov. 24						
BYR		iP		03	03	46
SPA		eP		03	03	31
		e			06	07
Nov. 24						
BYR		eP		05	02	44
		eS			12	41
SPA		eP		05	02	47
		e			03	54
		eS			13	16
		ePKKP			20	52
Nov. 24						
BYR		iP		07	02	54
		eS			11	13
		eP'P'			31	31
SPA		eP		07	03	29
		e			10	34
		eS			12	18
		eL			23	41
		e			25	20
		eP'P'			32	03
Nov. 24						
BYR		e(P)		07	40	41
SPA		eP		07	41	14
Nov. 24						
BYR		eP		07	42	58
SPA		eP		07	43	35
Nov. 24						
SPA		eP		08	01	34
Nov. 24						
BYR		iP		08	03	44
SPA		eP		08	04	23
Nov. 24						
BYR		eP		08	26	56
SPA		eP		08	27	33
Nov. 24						
BYR		eP		08	36	25
SPA		eP		08	37	02
Nov. 24						
BYR		eP		08	47	36
SPA		eP		08	48	13
Nov. 24						
SPA		eP		09	15	35
Nov. 24						
BYR		eP		09	26	38
SPA		eP		09	27	14

Date and Station		Phase	(GCT)	h	m	s
Nov. 24						
SPA		eP		09	35	37
Nov. 24						
BYR		eP		09	38	23
SPA		eP		09	38	59
Nov. 24						
SPA		eP		11	27	15
		e			35	34
Nov. 24						
SPA		eP		13	26	51
		e			31	15
Nov. 24						
BYR		eP'		14	31	07
SPA		eP'		14	31	06
Nov. 24						
SPA		eP		15	36	12
Nov. 24						
SPA		eP'		18	45	43
Nov. 24						
SPA		eP		20	15	24
Nov. 24						
BYR		eP		22	38	59
SPA		eP		22	39	53
Nov. 24						
BYR		eP		22	54	51
		e			55	02
Nov. 25						
BYR		e(P)		01	29	32
Nov. 25						
SPA		eP		02	45	45
Nov. 25						
BYR		eP		03	39	40
SPA		eP		03	40	24
Nov. 25						
BYR		eP		04	06	04
Nov. 25						
BYR		eP		05	42	50
Nov. 25						
SPA		eP		13	45	27
Nov. 25						
SPA		e(P)		14	12	14
Nov. 25						
SPA		eP		17	35	10
Nov. 25						
BYR		e(P)		17	55	13

Date and Station		Phase	(GCT)	h	m	s
Nov. 25						
SPA		eP		18	02	35
Nov. 25						
SPA		e(P)		18	11	25
Nov. 25						
BYR		eP		20	28	30
Nov. 25						
BYR		eP		20	41	02
		e			41	43
Nov. 25						
BYR		eP'		22	13	09
SPA		eP'		22	13	06
		eSKKP			26	21
Nov. 26						
BYR		eP		02	44	15
		e			45	51
SPA		iP		02	43	49
Nov. 26						
BYR		eP		04	13	15
SPA		eP		04	14	21
Nov. 26						
BYR		eP'		07	56	01
		e			56	16
SPA		eP'		07	55	59
Nov. 26						
SPA		eP		10	05	43
Nov. 26						
BYR		iP		12	21	39
		e			22	16
Nov. 26						
SPA		eP		12	22	20
Nov. 26						
BYR		eP		12	30	53
		e			31	11
SPA		iP		12	31	05
Nov. 26						
BYR		eP		14	45	09
SPA		iP		14	45	45
Nov. 26						
BYR		iP		15	39	47
SPA		iP		15	39	32
Nov. 26						
BYR		eP		15	45	53
Nov. 26						
SPA		eP		16	23	06

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Date and Station	Phase (GCT)	h	m	s
Nov. 26				
BYR	eP	17	04	48
SPA	eP	17	04	55
Nov. 26				
BYR	eP	18	27	50
SPA	iP	18	27	27
	ePP		28	48
Nov. 26				
BYR	eP	21	45	49
SPA	iP	21	46	24
Nov. 27				
BYR	eP	01	23	58
SPA	eP	01	24	59
Nov. 27				
BYR	eP	01	52	05
	e		54	16
	e		58	54
SPA	iP	01	52	26
	i		54	58
	e		59	04
Nov. 27				
SPA	iP	02	09	20
Nov. 27				
BYR	eP	07	13	33
SPA	eP	07	14	00
Nov. 27				
BYR	eP	07	28	32
SPA	iP	07	29	02
Nov. 27				
SPA	eP	08	29	39
Nov. 27				
BYR	eP	11	09	01
SPA	eP	11	08	28
Nov. 27				
BYR	eP'	12	19	44
	epP'		20	17
	ePP		23	04
SPA	iP'	12	20	02
Nov. 27				
BYR	eP	13	22	42
SPA	iP	13	22	37
Nov. 27				
BYR	eP	13	39	43
SPA	eP	13	39	57

Date and Station	Phase (GCT)	h	m	s
Nov. 27				
BYR	eP	15	13	36
SPA	iP	15	14	26
	i		14	32
Nov. 27				
BYR	eP'	15	36	24
	epP'		36	52
	eSKP		39	42
SPA	iP	15	36	21
Nov. 27				
SPA	iP	19	06	40
Nov. 27				
SPA	iP	20	50	07
Nov. 27				
SPA	iP	20	57	19
Nov. 27				
SPA	eP	21	23	35
Nov. 27				
SPA	iP	21	33	44
Nov. 27				
SPA	eP	22	17	11
Nov. 27				
SPA	eP	22	47	40
Nov. 28				
BYR	eP	02	51	41
SPA	iP	02	52	26
Nov. 28				
BYR	eP	03	29	48
Nov. 28				
BYR	eP	05	51	30
SPA	iP	05	52	44
	e		52	52
Nov. 28				
BYR	eP	06	28	43
Nov. 28				
BYR	e(P)	09	11	17
SPA	iP	09	12	52
Nov. 28				
SPA	eP	09	31	05
Nov. 28				
SPA	eP	13	15	08
Nov. 28				
SPA	eP	14	04	35
Nov. 28				
SPA	eP	14	34	41

Date and Station	Phase (GCT)	h	m	s
Nov. 28				
SPA	iP'	15	31	04
Nov. 28				
BYR	eP	16	31	49
Nov. 28				
SPA	iP	20	06	42
Nov. 28				
SPA	eP	20	46	42
Nov. 28				
BYR	e(P)	20	51	45
Nov. 28				
SPA	iP	20	53	56
Nov. 28				
SPA	iP	21	13	56
Nov. 28				
SPA	iP	21	14	28
Nov. 29				
BYR	eP	04	41	33
Nov. 29				
BYR	eP	04	52	59
Nov. 29				
SPA	eP	05	53	21
Nov. 29				
BYR	eP	07	23	42
SPA	iP	07	24	12
	i		24	42
Nov. 29				
SPA	eP	07	32	16
Nov. 29				
SPA	08	06	24	
Nov. 29				
BYR	eP	09	39	27
SPA	iP	09	40	21
	i		40	59
Nov. 29				
BYR	e(P)	10	57	45
Nov. 29				
SPA	eP	11	34	36
Nov. 29				
BYR	eP'	14	25	41
	ePP		27	06
SPA	iP	14	25	33
Nov. 29				
BYR	eP	14	35	50
SPA	eP	14	36	00
	i		36	06

Date and Station	Phase (GCT)	h	m	s
Nov. 29				
BYR	eP	14	51	37
SPA	eP	14	52	43
Nov. 29				
BYR	eP	18	02	38
SPA	iP	18	03	24
Nov. 29				
BYR	eP	19	27	56
	e		28	16
	iPcP		28	24
SPA	iP	19	28	36
	iPcP		28	57
Nov. 29				
BYR	eP	22	01	32
Nov. 30				
BYR	eP	00	19	57
SPA	iP	00	21	19
Nov. 30				
SPA	eP	02	06	45
Nov. 30				
SPA	e(P)	07	04	24
Nov. 30				
SPA	eP	07	25	40
	e		33	28
Nov. 30				
BYR	e(P)	07	48	48
SPA	iP	07	50	13
Nov. 30				
BYR	eP	12	51	12
SPA	iP	12	51	59
Nov. 30				
BYR	e(P')	13	33	04
SPA	eP'	13	33	55
Nov. 30				
BYR	eP	14	09	13
	e		09	27
Nov. 30				
SPA	eP	15	28	17
Nov. 30				
SPA	eP	16	14	27
Nov. 30				
BYR	eP	19	12	48
Nov. 30				
BYR	eP	22	08	28
Nov. 30				
BYR	e(P)	22	15	33

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Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s		h m s		h m s		h m s
Dec. 1		Dec. 1		Dec. 2		Dec. 3	
BYR eP	00 42 20	SPA eP	11 48 03	BYR e(P)	10 14 28	SPA eP	03 17 03
SPA eP	00 42 51	Dec. 1		e	16 47	Dec. 3	
Dec. 1		BYR eP	13 53 55	e	17 19	BYR eP	04 26 18
BYR eP	00 57 26	SPA eP	13 54 27	e	18 48	Dec. 3	
Dec. 1		Dec. 1		SPA iP	10 15 08	BYR eP'	04 43 35
BYR eP	01 01 30	BYR eP	13 59 51	i	16 50	eSKP	46 33
SPA eP	01 02 23	SPA iP	14 00 52	iS	21 56	e	47 28
Dec. 1		Dec. 1		Dec. 2		e	55 34
SPA e(P)	01 13 40	SPA eP	14 51 25	BYR eP	12 19 37	SPA iP'	04 43 32
Dec. 1		Dec. 1		Dec. 2		iSKS	50 11
BYR eP'	03 09 17	SPA eP	16 11 51	BYR eP	13 51 34	Dec. 3	
SPA iP'	03 09 51	Dec. 1		e	51 43	BYR eP	07 09 42
Dec. 1		SPA iP	17 56 24	SPA iP	13 52 16	SPA iP	07 10 24
BYR e(P)	03 21 23	i	56 35	Dec. 2		Dec. 3	
SPA iP	03 22 06	Dec. 1		BYR eP	13 56 54	BYR eP'	07 26 43
Dec. 1		SPA eP	19 28 17	SPA iP	13 57 11	e	26 54
BYR eP	03 25 35	Dec. 1		Dec. 2		iSKP	30 09
SPA eP	03 24 51	SPA eP	20 40 37	SPA iP	14 40 37	e	39 11
Dec. 1		Dec. 1		Dec. 2		SPA iP'	07 27 03
SPA eP'	04 21 37	SPA eP	21 02 20	SPA eP	15 26 27	ipP'	27 47
Dec. 1		Dec. 1		Dec. 2		iSKP	30 25
BYR eP	07 25 09	BYR eP'	21 08 54	BYR eP	16 36 57	i	38 44
SPA eP	07 24 53	SPA eP'	21 09 09	SPA iP	16 37 01	Dec. 3	
Dec. 1		i	09 17	Dec. 2		BYR eP	08 10 32
BYR eP	08 51 06	Dec. 1		BYR e(P')	18 03 24	SPA iP	08 11 15
SPA e(P)	09 05 09	SPA eP	21 23 19	SPA eP'	18 01 52	i	11 35
Dec. 1		Dec. 1		Dec. 2		Dec. 3	
SPA iP	08 52 20	BYR eP'	22 08 44	BYR eP	18 22 26	SPA eP	09 22 02
Dec. 1		SPA iP'	22 08 58	SPA iP	18 23 08	Dec. 3	
BYR eP	09 51 05	Dec. 1		Dec. 2		BYR eP	12 29 59
i	51 37	SPA e(P')	22 20 27	SPA eP	19 36 43	SPA iP	12 30 40
SPA iP	09 50 42	Dec. 1		Dec. 2		Dec. 3	
i	51 17	SPA eP'	22 25 02	BYR iP	19 50 56	BYR eP	14 11 43
Dec. 1		Dec. 2		ePP	53 06	SPA iP	14 12 19
BYR iP	10 24 18	SPA eP	00 31 25	SPA iP	19 49 48	i	12 34
i	24 45	Dec. 2		i	51 15	Dec. 3	
SPA iP	10 24 14	SPA iP	04 49 55	Dec. 2		BYR eP	14 26 12
i	24 42	Dec. 2		SPA eP	21 32 35	SPA iP	14 26 54
Dec. 1		SPA iP	06 34 09	Dec. 2		Dec. 3	
BYR eP	10 50 36	Dec. 2		SPA eP	21 36 18	SPA eP	14 59 20
SPA iP	10 51 14	SPA iP	09 21 25	Dec. 2		Dec. 3	
Dec. 1		iS	30 06	BYR eP	22 40 04	BYR eP	16 15 25
SPA eP	10 55 45	i	33 10	SPA iP	22 40 46	SPA iP	16 16 07
		Dec. 2		Dec. 3		Dec. 3	
		SPA iP	09 48 20	SPA iP	02 42 12	BYR e(P')	18 15 45
		i	10 12 46			SPA iP'	18 15 40

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Date and Station		Phase (GCT)	Date and Station		Phase (GCT)	Date and Station		Phase (GCT)	Date and Station		Phase (GCT)
Dec. 3		h m s	Dec. 4		h m s			h m s	Dec. 6		h m s
BYR	eP'	20 41 57	BYR	eP	16 00 49	SPA	iP'	18 27 03	SPA	iP	20 26 49
	e	45 40		e	03 49		ipP'	27 13			
				ePP	04 39				Dec. 6		
SPA	iP'	20 41 02				Dec. 5			BYR	eP	21 47 30
			SPA	iP	16 00 27	BYR	eP'	21 40 54			
Dec. 3							epP'	41 14	Dec. 7		
BYR	eP	21 11 02	Dec. 4			SPA	iP'	21 40 46	BYR	e(P)	01 52 14
	e	12 45	BYR	eP'	16 39 28		ipP'	41 02			
	e	15 22				Dec. 5			Dec. 7		
			SPA	iP'	16 39 27	BYR	e(P)	22 19 18	BYR	eP	03 08 23
SPA	iP	21 10 04					e	19 45			
	e	14 24	Dec. 4						Dec. 7		
			BYR	eP	18 43 35	Dec. 5			BYR	eP'	08 02 09
Dec. 3						BYR	eP	23 33 46			
BYR	eP	21 30 55	Dec. 4						Dec. 7		
	e	32 38	BYR	eP	20 30 14	Dec. 6			BYR	eP	10 13 30
						SPA	eP	03 11 51			
SPA	iP	21 30 00	Dec. 4						Dec. 7		
			BYR	iP	24 05 16	Dec. 6			BYR	eP	16 32 32
Dec. 3				epP	07 21	BYR	eP	03 44 25		epP	32 48
SPA	iP	21 59 48					e	46 18		ePP	36 22
	ipP	22 00 26	SPA	iP	24 05 51					e	39 55
				e	06 33	SPA	iP	03 45 04			
Dec. 3				ipP	07 53				Dec. 8		
BYR	eP	22 30 17				Dec. 6			BYR	eP	00 45 06
			Dec. 5			BYR	eP'	03 54 46			
SPA	iP	22 29 19	SPA	eP	01 33 41		e	55 36	Dec. 8		
							eSKP	58 30	BYR	eP	01 10 03
Dec. 4			Dec. 5								
BYR	eP	00 45 48	BYR	eP	07 42 39	SPA	eP'	03 54 42	Dec. 8		
									BYR	iP	01 33 50
SPA	iP	00 46 38	Dec. 5			Dec. 6				epP	35 52
			SPA	iP	08 35 48	BYR	iP	09 06 35		esP	36 35
Dec. 4							ePP	08 47		eScP	37 26
BYR	eP	03 53 02	Dec. 5				iS	15 02		eP'P'	02 02 26
	e	53 10	BYR	eP'	08 58 04		e	22 11			
				eSKP	09 01 31		e	24 24	SPA	iP	01 34 20
SPA	iP	03 53 44					eP'P'	35 31		epP	36 22
			SPA	iP'	08 58 00					iS	42 35
Dec. 4						Dec. 6					
BYR	eP	04 06 43	Dec. 5			SPA	iP	09 07 15	Dec. 8		
			BYR	eP	12 08 07		iPcP	07 28	SPA	eP	02 02 20
Dec. 4							i(PP)	09 16			
SPA	eP	05 34 08	Dec. 5				iS	15 45	Dec. 8		
			BYR	e(P)	12 21 39		iP'P'	35 28	BYR	eP	05 26 06
Dec. 4											
SPA	e(P)	05 53 32	Dec. 5			Dec. 6			Dec. 8		
			SPA	iP	12 24 00	BYR	eP	10 15 22	BYR	e(P)	07 38 54
Dec. 4				i	24 07						
BYR	e(P)	10 36 43				SPA	iP	10 16 15	Dec. 8		
			Dec. 5						BYR	eP	08 04 20
Dec. 4			SPA	eP	14 36 29	Dec. 6					
SPA	eP	12 30 23				BYR	iP	12 27 23	Dec. 8		
			Dec. 5						SPA	iP	08 04 55
Dec. 4			BYR	eP	16 43 33	SPA	iP	12 27 53			
BYR	eP	13 40 21		e	45 59				Dec. 8		
						Dec. 6			BYR	eP	08 55 43
SPA	iP	13 40 19	SPA	eP	16 43 47	SPA	eP	14 22 47			
									SPA	eP	08 55 46
Dec. 4			Dec. 5			Dec. 6					
BYR	e(P)	14 27 17	BYR	eP'	18 09 08	SPA	eP	16 10 03	Dec. 8		
									BYR	e(P)	09 58 32
Dec. 4			SPA	iP'	18 09 17	Dec. 6					
BYR	eP	14 34 48		i	09 27	SPA	iP	17 21 06	SPA	eP	09 58 37
SPA	eP	14 35 56	Dec. 5			Dec. 6					
			BYR	eP'	18 26 53	BYR	eP	20 26 19			
				ipP'	27 03						
				eSKP	30 34						

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Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)
Dec. 8		h m s			h m s	Dec. 10		h m s			h m s
BYR	iP	11 29 09	SPA	iP	12 11 49	BYR	eP	12 32 24	SPA	iP	00 11 57
	epP	29 40								ipP	12 18
	esP	29 53	Dec. 9			SPA	iP	12 32 41		isP	12 30
	eP'P'	59 19	SPA	iP	13 47 18		e	32 57		iS	20 39
										eP'P'	40 14
SPA	iP	11 29 52	Dec. 9			Dec. 10					
	i	30 08	SPA	iP	14 12 47	BYR	eP	13 43 25	Dec. 11		
	iP'P'	59 40					ipP	43 37	SPA	iP'	01 26 40
			Dec. 9								
Dec. 8			SPA	iP	15 20 18	SPA	iP	13 44 02	Dec. 11		
SPA	iP	12 58 31					ipP	44 14	BYR	e(P)	01 50 24
			Dec. 9								
Dec. 8			SPA	iP	16 00 13	Dec. 10			SPA	eP	01 49 54
BYR	eP	14 42 10				BYR	eP	14 08 15			
	epP	42 26	Dec. 9				epP	09 05	Dec. 11		
	e	43 43	BYR	iP	17 15 14		esP	09 37	BYR	eP	03 31 35
				e	15 44					e	34 47
SPA	iP	14 42 45		e	15 58	SPA	iP	14 07 54			
	i	42 51					i	09 04	SPA	iP	03 31 16
			SPA	iP	17 15 57						
Dec. 8						Dec. 10			Dec. 11		
SPA	eP	15 39 42	Dec. 9			SPA	iP	14 17 59	SPA	eP	04 22 23
			SPA	iP	19 41 41						
Dec. 8						Dec. 10			Dec. 11		
BYR	eP	18 44 16	Dec. 9			SPA	eP	15 31 03	BYR	eP	04 47 46
			BYR	eP	20 27 16						
SPA	eP	18 44 14				Dec. 10			SPA	iP	04 48 20
			SPA	eP	20 27 58	BYR	eP	17 10 44			
Dec. 8									Dec. 11		
SPA	eP	19 25 50	Dec. 9			SPA	iP	17 11 11	BYR	e(P)	05 02 36
			BYR	e(P)	21 01 02		iPP	11 17			
Dec. 8							iS	18 42	SPA	eP	05 03 08
SPA	eP	21 40 18	Dec. 9								
			BYR	eP'	21 45 51	Dec. 10			Dec. 11		
Dec. 8						SPA	eP	18 33 17	BYR	e(P)	06 14 26
BYR	eP	21 49 09	SPA	iP'	21 45 39						
						Dec. 10			Dec. 11		
SPA	iP	21 48 57	Dec. 9			BYR	eP	18 38 39	BYR	eP	08 32 11
			BYR	e(P)	21 54 55		e	39 29			
Dec. 9									SPA	eP	08 34 28
BYR	eP	00 46 45	Dec. 10			SPA	iP	18 37 35			
	epP	47 35	BYR	eP	00 28 31				Dec. 11		
	e	48 36				Dec. 10			BYR	e(P)	08 54 31
			Dec. 10			SPA	eP	20 28 05			
SPA	iP	00 47 19	BYR	eP	05 36 58				SPA	eP	08 53 28
				e	37 04	Dec. 10					
Dec. 9				e	37 17	BYR	eP	22 17 37	Dec. 11		
SPA	eP	02 25 21							SPA	iP	10 04 34
			SPA	iP	05 37 48	SPA	iP	22 17 38			
Dec. 9									Dec. 11		
BYR	eP	07 00 31	Dec. 10			Dec. 10			BYR	eP	13 39 01
			BYR	eP	06 18 27	BYR	iP	22 39 41			
SPA	eP	07 00 20					e	40 36	SPA	eP	13 38 37
			Dec. 10								
Dec. 9			BYR	eP'	06 48 19	SPA	iP	22 40 17	Dec. 11		
BYR	eP	09 27 42							BYR	eP	14 30 49
			Dec. 10			Dec. 10				e	31 50
SPA	iP	09 27 27	BYR	eP	09 06 14	SPA	eP	23 08 55			
									SPA	iP	14 31 22
Dec. 9			SPA	eP	09 07 05	Dec. 11				i	31 26
BYR	eP	10 59 49				BYR	eP	00 11 35			
			Dec. 10				epP	11 57	Dec. 11		
Dec. 9			BYR	eP	11 51 44		eS	21 21	BYR	eP	17 47 40
SPA	eP	11 13 51					eP'P'	40 24			
			SPA	iP	11 51 58				Dec. 11		
Dec. 9									BYR	eP	18 35 57
BYR	e(P)	12 10 57	Dec. 10								
			SPA	iP	12 02 23				SPA	iP	18 36 12

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Date and Station	Phase (GCT)	h	m	s
Dec. 11				
BYR	eP	19	04	22
	e		17	21
	ePKKP		24	22
	eP'P'		32	16
SPA	iP	19	04	38
	ipP		04	55
	isP		05	40
	i		17	38
	iP'P'		31	49
Dec. 11				
SPA	iP	19	56	18
Dec. 11				
BYR	eP	22	02	00
Dec. 12				
BYR	eP	02	24	17
Dec. 12				
BYR	eP	03	59	12
Dec. 12				
BYR	eP	04	30	14
Dec. 12				
BYR	eP	06	51	04
Dec. 12				
BYR	iP	07	17	32
Dec. 12				
BYR	eP	09	41	12
Dec. 12				
BYR	e(P)	10	05	03
Dec. 12				
BYR	eP	10	13	58
Dec. 12				
BYR	e(P)	11	32	45
	e		33	23
Dec. 12				
BYR	eP	11	44	07
	e		44	46
	ePP		47	37
Dec. 12				
BYR	eP	12	25	37
Dec. 12				
BYR	eP	19	20	09
Dec. 13				
BYR	eP	00	08	48
Dec. 13				
BYR	eP	04	42	32
Dec. 13				
BYR	eP	07	43	26
	e	08	13	59
	eP'P'		15	57
Dec. 13				
BYR	eP	09	08	16

Date and Station	Phase (GCT)	h	m	s
Dec. 13				
BYR	iP	09	13	27
Dec. 13				
BYR	eP'	10	24	12
Dec. 13				
BYR	eP	10	34	42
Dec. 13				
BYR	eP	10	55	11
Dec. 13				
BYR	e(P)	17	50	40
Dec. 14				
BYR	e(P)	06	26	56
Dec. 14				
BYR	eP	06	29	49
Dec. 14				
SPA	iP	07	17	01
Dec. 14				
BYR	eP	08	22	36
	ePcP		23	44
SPA	iP	08	23	10
	IPcP		24	06
	i		25	37
	eP'P'		52	57
Dec. 14				
BYR	e(P)	09	26	55
Dec. 14				
SPA	eP	09	43	49
Dec. 14				
SPA	eP	10	47	47
Dec. 14				
SPA	eP	11	19	32
Dec. 14				
SPA	eP	12	14	43
Dec. 14				
SPA	iP	13	24	00
Dec. 14				
BYR	e(P)	13	29	02
Dec. 14				
BYR	iP	14	30	34
	ipP		30	59
	e		31	25
	ePP		32	25
	ePcP		32	53
SPA	iP	14	30	41
	iPP		32	21
Dec. 14				
BYR	e(P)	21	57	06
Dec. 14				
BYR	e(P)	22	10	44

Date and Station	Phase (GCT)	h	m	s
Dec. 15				
BYR	eP	00	04	56
	i(pP)		05	25
	e(P')		08	12
	e		08	53
	eS		16	10
	e		19	34
SPA	iP	00	04	39
	ipP		05	11
	i SKS		14	57
	iP'P'		29	58
Dec. 15				
BYR	eP	04	35	46
Dec. 15				
SPA	eP	07	55	22
Dec. 15				
BYR	eP	09	08	33
Dec. 15				
BYR	eP	10	14	14
SPA	iP	10	13	56
Dec. 15				
SPA	eP	14	09	53
Dec. 15				
BYR	eP	15	24	34
SPA	eP	15	24	06
Dec. 15				
BYR	eP	16	27	20
	e		27	48
SPA	eP	16	27	54
Dec. 15				
BYR	eP	18	43	38
	epP		45	38
SPA	eP	18	44	07
Dec. 16				
SPA	eP	03	45	25
Dec. 16				
SPA	eP	04	31	11
Dec. 16				
SPA	iP	05	21	20
	i		21	36
	ipP		21	41
Dec. 16				
SPA	iP	06	56	19
Dec. 16				
SPA	eP	07	52	01
Dec. 16				
SPA	iP	09	03	50
Dec. 16				
SPA	iP	10	24	53

Date and Station	Phase (GCT)	h	m	s
Dec. 16				
SPA	eP	14	36	08
Dec. 16				
SPA	iP	15	42	03
Dec. 16				
SPA	eP	16	14	03
Dec. 16				
SPA	iP'	18	40	47
Dec. 16				
SPA	eP	19	44	25
Dec. 16				
SPA	eP	21	13	48
Dec. 16				
SPA	eP	22	48	19
Dec. 17				
SPA	eP	00	44	55
Dec. 17				
SPA	e(P)	01	00	45
Dec. 17				
SPA	eP	01	10	58
Dec. 17				
SPA	iP	01	15	13
Dec. 17				
BYR	eP	02	14	27
Dec. 17				
BYR	eP	02	15	43
Dec. 17				
BYR	eP	02	20	21
SPA	iP	02	20	28
Dec. 17				
BYR	eP'	02	23	35
SPA	iP'	02	23	44
	i		23	52
Dec. 17				
BYR	eP	05	29	43
SPA	iP	05	29	35
Dec. 17				
SPA	iP	06	44	12
Dec. 17				
SPA	eP	07	32	29
Dec. 17				
BYR	iP	07	49	24
	i		49	42
	iPcP		49	53
SPA	iP	07	50	05
	i		50	25
	iPcP		50	34

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Date and Station	Phase	(GCT) h m s
Dec. 17		
SPA	eP	09 37 25
Dec. 17		
SPA	e(P)	09 53 34
Dec. 17		
BYR	iP	10 49 45
	ipP	50 51
	ePP	53 22
	ePKKP	11 06 52
SPA	iP	10 49 13
	i	49 40
	ipP	50 15
	iS	59 06
	i	11 00 18
	isS	01 12
	iPKKP	07 30
	eP'P'	15 27
	iSKPP'	18 31
Dec. 17		
BYR	eP	11 51 28
SPA	iP	11 52 18
Dec. 17		
BYR	eP	12 10 13
SPA	iP	12 10 43
Dec. 17		
BYR	eP	12 20 12
SPA	iP	12 20 48
Dec. 17		
BYR	e(P)	12 57 17
Dec. 17		
SPA	eP	13 23 18
Dec. 17		
SPA	iP'	13 33 35
Dec. 17		
SPA	eP	14 57 47
Dec. 17		
BYR	eP	16 12 44
SPA	iP	16 12 51
	ipP	13 25
Dec. 17		
BYR	e(P)	16 16 16
SPA	iP	16 16 38
	i	16 48
Dec. 17		
BYR	eP	16 25 36
SPA	iP	16 26 28
Dec. 17		
BYR	eP'	17 04 01
	e	04 14

Date and Station	Phase	(GCT) h m s
SPA	iP	17 04 18
Dec. 17		
SPA	iP	18 01 24
Dec. 17		
BYR	eP	18 19 09
SPA	iP	18 19 27
Dec. 17		
SPA	iP	18 24 48
Dec. 17		
BYR	eP	18 54 34
SPA	iP	18 53 49
Dec. 17		
BYR	eP	21 00 10
	e	00 28
SPA	iP	21 00 44
Dec. 17		
SPA	eP	23 16 12
Dec. 17		
SPA	eP	23 37 11
Dec. 17		
SPA	eP	23 47 39
Dec. 18		
BYR	eP	03 27 39
SPA	iP	03 28 05
Dec. 18		
SPA	eP	03 49 37
Dec. 18		
BYR	e(P)	04 20 12
Dec. 18		
BYR	eP	05 22 37
	epP	23 08
	esP	23 22
SPA	iP	05 23 00
Dec. 18		
SPA	iP	05 43 21
Dec. 18		
SPA	eP	06 33 55
Dec. 18		
BYR	eP	07 00 22
SPA	iP	07 00 49
Dec. 18		
BYR	eP	07 54 47
Dec. 18		
BYR	eP	09 21 04
	e	21 16

Date and Station	Phase	(GCT) h m s
Dec. 18		
BYR	e(P)	10 16 40
Dec. 18		
SPA	eP	10 38 10
Dec. 18		
BYR	eP	11 11 32
SPA	e(P)	11 12 25
Dec. 18		
SPA	eP	13 01 53
Dec. 18		
BYR	eP	15 00 30
SPA	eP	15 01 24
Dec. 18		
SPA	eP	18 03 37
Dec. 18		
BYR	e(P)	18 34 51
	eP'	38 00
	ePP	38 48
SPA	iP	18 34 26
Dec. 18		
BYR	iP	19 38 55
	epP	39 38
SPA	iP	19 39 34
Dec. 18		
BYR	eP	21 07 07
SPA	iP	21 07 05
Dec. 18		
BYR	eP	23 15 46
Dec. 18		
SPA	eP	03 05 31
Dec. 19		
SPA	iP	05 59 59
Dec. 19		
SPA	eP	06 36 19
Dec. 19		
SPA	iP	07 10 59
	i	11 12
Dec. 19		
SPA	iP	09 51 51
	i	51 58
Dec. 19		
SPA	eP	10 14 16
Dec. 19		
SPA	eP	12 14 40
Dec. 19		
SPA	eP	12 50 52

Date and Station.	Phase	(GCT) h m s
Dec. 19		
BYR	eP	13 11 55
SPA	iP	13 12 11
Dec. 19		
BYR	eP	13 32 08
	i	32 17
SPA	iP	13 32 50
	i	33 03
Dec. 19		
BYR	eP	13 48 26
SPA	iP	13 48 25
Dec. 19		
SPA	eP	14 51 09
Dec. 19		
SPA	iP	15 01 54
Dec. 19		
SPA	iP	16 04 42
Dec. 19		
SPA	eP'	19 17 31
Dec. 19		
BYR	e(P)	19 38 14
Dec. 19		
SPA	eP	20 44 23
Dec. 19		
SPA	eP	21 15 45
Dec. 19		
BYR	eP	22 25 36
	e	29 04
SPA	iP	22 25 51
	i	25 57
	i	29 18
Dec. 19		
BYR	eP	22 58 05
SPA	iP	22 58 20
Dec. 20		
BYR	e(P)	01 10 55
SPA	eP	01 10 09
Dec. 20		
SPA	iP	02 06 46
Dec. 20		
SPA	eP	03 40 42
Dec. 20		
BYR	eP	04 48 09
Dec. 20		
SPA	eP	05 22 00

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Date and Station	Phase	(GCT) h m s
Dec. 20		
SPA	eP	06 45 23
Dec. 20		
SPA	eP	08 05 55
Dec. 20		
BYR	eP	11 51 42
	e	57 20
SPA	iP	11 52 12
	i	52 30
	ipP	54 19
Dec. 20		
SPA	e(P)	12 08 12
Dec. 20		
BYR	eP	12 28 18
Dec. 20		
SPA	iP	14 08 52
Dec. 20		
SPA	eP	16 41 04
Dec. 20		
SPA	iP	17 27 23
Dec. 20		
BYR	eP	18 48 50
SPA	iP	18 50 18
Dec. 20		
SPA	eP	20 15 06
Dec. 20		
BYR	eP	20 48 54
SPA	iP	20 47 38
Dec. 20		
BYR	e(P)	20 54 48
SPA	iP	20 55 03
Dec. 20		
BYR	eP	21 03 37
SPA	iP	21 03 51
Dec. 20		
SPA	eP	21 22 54
Dec. 20		
BYR	e(P)	21 39 57
Dec. 20		
BYR	eP	22 15 06
Dec. 21		
BYR	eP	00 08 06
Dec. 21		
SPA	iP	01 10 33
Dec. 21		
SPA	iP	02 09 37

Date and Station	Phase	(GCT) h m s
Dec. 21		
BYR	eP	05 03 53
Dec. 21		
BYR	eP	06 13 46
SPA	iP	06 14 12
Dec. 21		
SPA	eP	07 34 47
Dec. 21		
BYR	e(P)	10 00 59
SPA	iP	10 01 10
Dec. 21		
SPA	eP	13 12 14
Dec. 21		
BYR	iP'	14 59 14
	epP'	59 55
	iPP	15 02 43
	e	08 46
SPA	iP	14 59 30
	i	59 39
	i	59 45
	ipP'	15 00 13
	i	05 21
Dec. 21		
SPA	eP	16 18 24
Dec. 21		
BYR	eP	16 58 53
SPA	iP	16 59 08
Dec. 21		
BYR	eP	18 43 56
SPA	iP	18 44 18
Dec. 21		
SPA	eP	21 07 50
Dec. 21		
SPA	eP	21 50 50
Dec. 21		
BYR	iP	22 35 29
	ePcP	38 55
	eL	41 05
	e	48 18
SPA	iP	22 35 42
	i	36 15
	iPP	36 31
	iPcP	39 13
Dec. 21		
BYR	iP	22 52 40
SPA	iP	22 53 01
Dec. 21		
SPA	iP	23 11 08

Date and Station	Phase	(GCT) h m s
Dec. 22		
SPA	iP	01 12 18
Dec. 22		
BYR	iP	01 31 21
SPA	iP	01 31 36
	i	31 43
Dec. 22		
BYR	iP	02 34 30
	epP	35 41
SPA	iP	02 3503
	ipP	36 16
	iS	42 50
Dec. 22		
BYR	eP	03 21 03
SPA	eP	03 19 59
Dec. 22		
BYR	iP	03 58 07
	ipP	58 42
	eP'P'	04 26 24
SPA	eP	03 59 22
Dec. 22		
BYR	iP	06 40 44
	i	40 53
	eP'P'	07 10 50
SPA	iP	06 41 21
	i	41 52
	iPcP	42 10
	iP'P'	07 10 34
Dec. 22		
SPA	eP	07 37 17
Dec. 22		
SPA	iP	10 16 04
Dec. 22		
BYR	eP	10 58 29
Dec. 22		
BYR	eP	11 32 38
SPA	iP	11 32 55
Dec. 22		
BYR	eP	12 12 38
SPA	iP	12 12 32
Dec. 22		
BYR	iP	12 30 42
	ipP	30 54
	ePcP	32 00
SPA	iP	12 31 27
	ipP	31 40
	isP	31 50
	iP'P'	13 01 05
Dec. 22		
BYR	eP	14 22 00

Date and Station	Phase	(GCT) h m s
SPA	iP	14 22 37
	ipP	22 48
Dec. 22		
BYR	eP	14 46 54
SPA	iP	14 47 11
	i	47 39
Dec. 22		
BYR	eP	14 50 22
SPA	iP	14 50 42
Dec. 22		
BYR	eP	16 28 40
SPA	iP	16 29 32
Dec. 22		
SPA	eP	17 14 16
Dec. 22		
BYR	iP	21 14 18
	i	15 49
	ipP	15 55
	e	16 33
	eS	24 00
	ePKKP	33 26
	eSKPP'	43 20
SPA	iP	21 14 22
	i	14 53
	i	15 13
	ipP	16 08
	iS	24 09
	i	32 40
	iSKPP'	43 23
Dec. 23		
SPA	eP	04 14 06
Dec. 23		
SPA	eP	06 07 58
Dec. 23		
SPA	eP	06 47 36
Dec. 23		
BYR	eP	09 54 57
	epP	55 19
	ePKKP	10 11 52
SPA	iP	09 54 20
	ipP	54 40
	iPKKP	10 10 58
	iP'P'	20 15
Dec. 23		
SPA	iP	11 01 36
BYR	eP'	11 05 58
Dec. 23		
BYR	eP	12 13 37
SPA	iP	12 14 09

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Date and Station	Phase (GCT)	h m s
Dec. 23		
BYR	eP	13 16 18
	e	16 33
Dec. 23		
BYR	eP	13 21 56
Dec. 23		
BYR	eP	13 39 46
SPA	iP	13 39 55
Dec. 23		
BYR	eP	14 46 32
	epP	46 47
SPA	iP	14 47 25
Dec. 23		
BYR	eP	16 26 09
SPA	iP	16 26 24
Dec. 23		
BYR	eP	19 16 26
SPA	iP	19 17 03
	iPcP	17 28
	ipP	17 43
	iP'P'	46 09
Dec. 23		
BYR	eP	19 49 16
Dec. 23		
BYR	eP	20 16 40
SPA	iP	20 17 17
Dec. 24		
BYR	eP	00 14 12
Dec. 24		
BYR	eP	04 07 51
SPA	iP	04 06 55
Dec. 24		
BYR	eP	05 12 51
SPA	iP	05 13 27
Dec. 24		
SPA	iP	05 40 32
Dec. 24		
SPA	eP	09 13 41
Dec. 24		
BYR	eP	10 46 33
	e	46 42
SPA	iP	10 47 09
Dec. 24		
BYR	e(P)	12 40 06
SPA	iP	12 40 56

Date and Station	Phase (GCT)	h m s
Dec. 24		
SPA	iP	15 39 23
Dec. 24		
BYR	eP	16 43 14
Dec. 24		
BYR	eP	16 51 32
SPA	iP	16 51 16
	ipP	51 27
Dec. 24		
SPA	iP	18 45 26
Dec. 24		
BYR	eP	21 16 23
SPA	iP	21 16 57
Dec. 24		
BYR	eP	21 43 51
SPA	iP	21 44 48
Dec. 24		
SPA	eP	22 45 06
Dec. 24		
SPA	iP	23 27 34
Dec. 24		
BYR	eP	23 30 32
SPA	iP	23 31 12
Dec. 25		
SPA	iP	02 45 48
Dec. 25		
BYR	eP	05 10 56
Dec. 25		
BYR	eP'	05 39 45
SPA	eP'	05 39 43
Dec. 25		
BYR	eP	06 01 44
SPA	iP	06 01 58
Dec. 25		
SPA	iP	09 02 38
Dec. 25		
BYR	eP	11 23 24
SPA	iP	11 24 06
Dec. 25		
SPA	eP	11 34 48
Dec. 25		
SPA	eP	15 31 22
Dec. 25		
BYR	iP	17 43 21
	e	43 33

Date and Station	Phase (GCT)	h m s
SPA	iP	17 44 07
	i	44 23
Dec. 25		
BYR	eP	18 34 18
SPA	iP	18 34 48
Dec. 25		
BYR	eP'	20 47 17
SPA	iP	20 47 06
Dec. 25		
BYR	iP	22 19 09
Dec. 26		
SPA	eP	00 57 15
Dec. 26		
BYR	eP	01 06 26
	ePcP	06 56
SPA	iP	01 07 00
	iP'P'	35 31
Dec. 26		
BYR	iP'	02 03 44
	epP'	04 06
SPA	iP'	02 03 02
Dec. 26		
BYR	iP	04 39 21
	e	40 46
	eS	44 36
	eScS	49 32
Dec. 26		
BYR	eP	05 21 44
Dec. 26		
BYR	eP	05 49 37
Dec. 26		
BYR	eP	06 16 16
SPA	iP	06 15 10
Dec. 26		
BYR	eP	07 21 47
SPA	eP	07 22 24
Dec. 26		
BYR	eP	09 21 45
Dec. 26		
BYR	eP	13 50 43
SPA	iP	13 50 55
	i	51 08
	iPcP	52 58
Dec. 26		
SPA	eP	14 42 05
Dec. 26		
BYR	eP	17 27 58

Date and Station	Phase (GCT)	h m s
Dec. 26		
SPA	eP	18 57 15
Dec. 26		
SPA	eP'	21 02 12
Dec. 26		
SPA	iP	21 37 27
Dec. 26		
BYR	eP	22 24 50
Dec. 26		
BYR	eP	23 54 47
	e	54 56
SPA	eP	23 55 26
Dec. 27		
SPA	iP	00 28 10
Dec. 27		
BYR	eP	03 31 34
	e	32 10
SPA	eP	03 31 54
Dec. 27		
SPA	iP	04 22 17
Dec. 27		
SPA	eP	05 46 48
Dec. 27		
BYR	eP	06 49 44
Dec. 27		
BYR	eP	07 43 29
Dec. 27		
BYR	iP	08 23 44
SPA	iP	08 23 25
Dec. 27		
BYR	eP	10 14 33
SPA	eP	10 15 32
Dec. 27		
BYR	eP'	10 54 18
SPA	iP'	10 54 40
	ipP'	54 49
	iSKP	58 10
Dec. 27		
SPA	iP'	11 15 55
	iSKS	22 49
Dec. 27		
SPA	iP'	11 28 18
Dec. 27		
BYR	e(P')	12 04 56
SPA	eP	12 00 43

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Date and Station	Phase (GCT)	h m s
Dec. 27		
BYR	eP	15 18 12
SPA	eP	15 19 29
Dec. 27		
BYR	iP	15 44 52
SPA	iP	15 45 26
Dec. 27		
BYR	eP	18 20 55
	eP'P'	48 54
SPA	iP	18 21 36
	i	22 10
Dec. 27		
BYR	eP	19 30 13
SPA	iP	19 30 48
Dec. 27		
SPA	eP	19 53 39
Dec. 27		
BYR	eP	20 17 25
SPA	eP	20 17 12
Dec. 27		
BYR	e(P)	22 03 28
Dec. 28		
BYR	iP	02 07 38
Dec. 28		
BYR	e(P)	02 52 12
Dec. 28		
BYR	eP	05 01 56
Dec. 28		
BYR	e(P)	07 04 55
SPA	eP	07 04 31
Dec. 28		
BYR	eP	07 44 58
Dec. 28		
SPA	iP	09 34 24
Dec. 28		
BYR	eP	12 58 17
	e	59 26
Dec. 28		
SPA	eP	13 16 09
Dec. 28		
BYR	eP	13 27 17
Dec. 28		
BYR	eP	14 44 12
Dec. 28		
BYR	eP	14 57 50

Date and Station	Phase (GCT)	h m s
SPA	iP	14 57 44
	i	57 51
	i	15 06 10
Dec. 28		
BYR	eP	16 14 30
SPA	eP	16 15 24
Dec. 28		
BYR	eP	16 35 11
SPA	eP	17 17 32
Dec. 28		
SPA	eP	18 16 52
Dec. 28		
BYR	eP	18 18 37
SPA	iP	18 18 59
Dec. 28		
SPA	iP'	20 05 05
Dec. 28		
SPA	iP	21 02 25
Dec. 28		
SPA	iP	22 07 36
Dec. 28		
BYR	iP	22 29 47
SPA	iP	22 30 21
Dec. 29		
BYR	iP	00 53 52
SPA	iP	00 53 16
Dec. 29		
SPA	eP	01 15 57
Dec. 29		
SPA	eP	03 05 43
Dec. 29		
BYR	eP	06 07 34
SPA	eP	06 07 43
Dec. 29		
BYR	eP	06 12 53
SPA	iP	06 13 28
Dec. 29		
BYR	e(P)	06 24 46
	e	26 11
Dec. 29		
BYR	eP	10 01 01
SPA	eP	10 01 01

Date and Station	Phase (GCT)	h m s
Dec. 29		
BYR	eP	10 44 03
	eL	53 11
	e	58 22
SPA	iP	10 44 58
	i	45 27
	i	45 51
	i(S)	52 04
	i	59 18
Dec. 29		
BYR	eP	11 15 49
SPA	eP	11 16 29
Dec. 29		
BYR	eP	11 51 43
SPA	eP	11 52 12
Dec. 29		
SPA	iP	13 35 47
Dec. 29		
BYR	eP	13 55 09
	e	14 00 19
	i	01 48
SPA	iP	13 55 04
	ipP	55 20
	isP	55 27
	i	14 02 43
Dec. 29		
SPA	eP	16 04 08
Dec. 29		
BYR	eP	17 30 47
Dec. 29		
BYR	eP'	18 37 07
SPA	eP'	18 37 41
Dec. 29		
BYR	iP	19 12 17
	ipP	12 33
SPA	iP	19 12 55
	i	14 10
	i	14 21
Dec. 29		
SPA	iP	20 03 54
Dec. 29		
BYR	e(P)	20 33 33
Dec. 29		
BYR	iP	20 39 45
	e	41 20
SPA	iP	20 40 40
	i	43 16

Date and Station	Phase (GCT)	h m s
Dec. 29		
SPA	iP'	20 52 40
Dec. 29		
BYR	e(P)	21 24 18
Dec. 29		
BYR	eP	21 39 36
SPA	iP	21 40 31
Dec. 29		
BYR	e(P)	22 16 30
Dec. 30		
BYR	eP	00 30 21
Dec. 30		
BYR	eP	00 36 42
Dec. 30		
BYR	eP	01 54 14
Dec. 30		
BYR	eP	04 07 29
	e	09 48
Dec. 30		
BYR	iP	05 26 50
Dec. 30		
BYR	e(P)	05 41 51
Dec. 30		
BYR	eP	08 07 36
SPA	eP	08 08 10
Dec. 30		
BYR	eP	08 39 46
SPA	eP	08 39 45
Dec. 30		
BYR	eP	09 10 11
SPA	iP	09 11 09
Dec. 30		
BYR	e(P)	10 59 17
Dec. 30		
BYR	iP	11 14 29
	i	14 54
SPA	iP	11 15 08
	i	15 33
Dec. 30		
BYR	eP	11 38 10
SPA	iP	11 39 00
Dec. 30		
BYR	eP	13 23 43
SPA	eP	13 24 36

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Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)	Date and Station	Phase	(GCT)
Dec. 30		h m s	Dec. 31		h m s			h m s			h m s
BYR	eP	14 47 39	SPA	iP	16 29 01						
SPA	iP	14 47 54	Dec. 31								
Dec. 30			BYR	eP	16 38 47						
SPA	eP	16 08 47	Dec. 31								
Dec. 30			BYR	iP	18 15 37						
BYR	eP	17 15 11		ePcP	17 45						
SPA	iP	17 15 46	SPA	iP	18 16 31						
Dec. 31				ipP	16 40						
BYR	eP	00'17 40		isP	16 46						
	epP	17 56		iPcP	18 09						
Dec. 31			Dec. 31								
SPA	iP	04 35 59	BYR	eP	19 15 12						
Dec. 31			Dec. 31								
BYR	eP	07 16 51	BYR	eP	20 11 46						
SPA	eP	07 17 43	SPA	iP	20 11 27						
Dec. 31			Dec. 31								
BYR	eP	07 34 45	BYR	iP	21 18 25						
SPA	iP	07 35 50		epP	18 52						
Dec. 31			SPA	iP	21 18 26						
BYR	eP	07 48 47									
SPA	eP	07 49 55									
Dec. 31											
BYR	eP	07 56 01									
SPA	eP	07 57 03									
Dec. 31											
BYR	eP	08 31 04									
SPA	iP	08 31 13									
Dec. 31											
BYR	iP	08 56 28									
	e	57 00									
SPA	iP	08 57 07									
Dec. 31											
BYR	eP	11 25 05									
SPA	iP	11 25 58									
Dec. 31											
BYR	eP	13 39 12									
SPA	iP	13 39 58									
Dec. 31											
SPA	eP	14 55 15									
Dec. 31											
BYR	iP	16 18 12									
SPA	iP	16 17 45									