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SEISMOLOGICAL BULLETIN

September, 1955

MSI - 177

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U. S. DEPARTMENT OF COMMERCE

Sinclair Weeks, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

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National Oceanic and Atmospheric Administration

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March 4, 2011

The instrumental results of the following stations are tabulated in this report.

**Balboa Heights, C. Z. (BH)
The Panama Canal
*Boulder City, Nev. (BC)
Bureau of Reclamation
*Bozeman, Mont. (BOZ)
Montana State College
**Burlington, Vt. (BUR)
University of Vermont
*Butte, Mont. (BUT)
Montana School of Mines
*Chicago, Ill. (CHI)
University of Chicago and
U. S. Weather Bureau
College, Alaska (COL)
*Columbia, S. C. (COLU)
University of South Carolina
*Eureka, Nev. (EUR)
Eureka Corporation Limited
Honolulu, T. H. (HONO)
*Hungry Horse, Mont. (HH)
Bureau of Reclamation
*Lincoln, Nebr. (LIN)
Nebraska Wesleyan University
**Philadelphia, Pa. (PHIL)
The Franklin Institute
**Rapid City, S. Dak. (RC)
South Dakota State School of Mines
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico (SJ)
Sitka, Alaska (SIT)
Tucson, Ariz. (TUC)
Ukiah, Calif. (UK)
International Latitude Observatory
Washington, D. C. (WASH)

*Indicates a station maintained by a local institution in cooperation with the Coast and Geodetic Survey.
**Indicates a station operating on an independent basis.
Other stations are observatories of the Coast and Geodetic Survey.

Logan, Utah seismogram interpretations after July 1, 1955 will no longer be published in this Bulletin.
Montezuma, Chile Seismograph Station was discontinued August 20, 1955.

All seismogram interpretations are made or revised at Washington except those for Balboa Heights.
All magnitude determinations are by Pasadena unless otherwise stated. Minor earthquakes are listed at the end of the bulletin.

One asterisk (*) following an origin time indicates probable error of one-tenth minute. Two asterisks (**) following an origin time indicates error of one-quarter minute. All origin times and locations are determined from P data only. For Pasadena epicenters the time is given in one-tenth minute.

All seismograms are on file in the Coast and Geodetic Survey, except those from Balboa Heights and Burlington, which may be obtained on loan by addressing the Seismograph Station Director: - Meteorological and Hydrographic Office, Panama Canal Company, Balboa Heights, Canal Zone; University of Vermont, Burlington, Vermont.

Date 1955	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Sept.	h m s	° '	° '	
1	17 33 01*	10 N.	84-1/2 W.	Costa Rica. Ten killed and five hundred homeless in Toro Amarillo.
1	22 40 15*	52-1/2 N.	153 E.	Sea of Okhotsk. h about 400 km.
2	13 17 07**			Santa Cruz Islands region.
2	21 11 56**			Western New Guinea.
3	03 45 27*	21-1/2 S.	175 W.	Tonga Islands. h about 300 km.
3	05 23 08*	19 N.	70 W.	Dominican Republic.
3	12 36 20*	14 N.	91 W.	Guatemala. Felt. h about 100 km. Mag. 6-1/2.
3	16 22 52*	1 N.	123 E.	Celebes.
4	11 29 40*	22 S.	69 W.	Northern Chile. Minor damage at Calama. h about 100 km.
4	19 09 30*	43 N.	145 E.	Hokkaido, Japan.
4	22 12 45*	1-1/2 N.	31 E.	Belgian Congo-Uganda border.
5	02 01 15*	37-1/2 N.	122 W.	Santa Clara County, California. Minor damage at San Jose. Mag. 5.8.
5	07 00 35*	24 S.	180	South of Fiji Islands. h about 550 km.
5	10 16 30**			Samoa Islands region. Felt at Apia.
5	11 45 40**			Near coast of southern Peru.
5	17 13 24*	7 S.	120-1/2 E.	Flores Sea. h about 600 km.
5	18 58 33**			Solomon Islands.
6	09 20 30*	28 N.	139 E.	Bonin Islands region. h about 550 km.
6	20 58 47*	53-1/2 N.	166 W.	Fox Islands, Aleutian Islands.
7	03 19 21*	2 S.	68 E.	Chagos Islands region.
8	02 03 15**			Sandwich Islands region. Mag. 6-3/4 - 7.
8	03 27 14*	7 S.	155-1/2 E.	Solomon Islands.
8	03 31 25*	8 N.	77 W.	Colombia-Panama border.
8	04 45 26*	25 N.	95 E.	Northern Burma. h about 150 km.
8	10 59 15*	53-1/2 N.	160 E.	Near east coast of Kamchatka.
8	16 53 15*	19 S.	176-1/2 W.	Tonga Islands. h about 250 km.
9	09 41 57*	2 S.	100 E.	Near south coast of Sumatra. Mag. 6-1/4 - 6-1/2.
9	16 21 12*	7 S.	155 E.	Solomon Islands.
10	05 54 08*	54-1/2 N.	169 E.	Komandorskie Islands.
10	09 29 15*	50-1/2 N.	173-1/2 W.	Andreanof Islands, Aleutian Islands.
10	21 04 40*	10 N.	123 E.	Negros Island, Philippine Islands.
11	00 52 35*	48-1/2 N.	125-1/2 W.	Near coast of Vancouver Island, British Columbia. Felt at Neah Bay, Washington.
11	01 49 57**			Peru-Ecuador border.
11	08 44 00**			Swan Island region, Carribean Sea.
11	12 15 58*	31-1/2 N.	140 E.	Off south coast of Honshu, Japan.
11	17 54 28*	7 S.	155 E.	Solomon Islands. Mag. 6.

Date 1955	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Sept.	h m s	° '	° '	
11	18 04 16*	7 S.	155 E.	Solomon Islands aftershock.
11	23 29 36*	34 N.	93-1/2 E.	Chinghi Province, China.
12	06 09 20*	32-1/2 N.	30 E.	Off coast of Egypt. Twenty killed, many injured and extensive damage in the Nile Delta area. Mag. 6-3/4.
13	02 00 43*	52 N.	176 W.	Andreanof Islands, Aleutian Islands. h about 60 km. Mag. 5-3/4 - 6.
13	16 59 52*	45 S.	96-1/2 E.	South Indian Ocean.
13	17 36 41*	1/2 N.	125 E.	Near coast of Celebes.
14	17 32 10**			Laptev Sea. 300 miles north of Taimyr Peninsula.
15	12 30 27*	5 S.	134-1/2 E.	Off coast of western New Guinea. Mag. 6-3/4.
15	18 11 44**			Samoa Islands. Felt at Apia.
16	04 30 00*	15 S.	177-1/2 W.	Fiji Islands region. h about 400 km.
16	04 42 30*	30 S.	178-1/2 W.	Kermadec Islands.
16	07 00 47**			Solomon Islands.
16	10 01 35*	21 S.	176 W.	Tonga Islands. h about 500 km.
17	11 55 28*	17-1/2 S.	168 E.	New Hebrides Islands.
17	14 49 40*	17-1/2 S.	168 E.	Do.
17	18 16 35*	17-1/2 S.	168-1/2 E.	Do.
17	19 56 46*	32 S.	178 W.	Kermadec Islands.
18	01 15 46*	17-1/2 S.	167-1/2 E.	New Hebrides Islands.
18	11 32 32*	39 N.	129 E.	Off east coast of Korea. h about 600 km.
19	04 11 03*	26-1/2 N.	129 E.	Ryukyu Islands.
19	20 22 56**			Andreanof Islands, Aleutian Islands. h about 60 km.
20	13 20 19*	32 S.	178 W.	Kermadec Islands. Mag. 6-1/2.
20	20 21 13*	27-1/2 N.	90 E.	Bhutan.
21	05 00 55*	70-1/2 N.	52-1/2 E.	Near south coast of Novaya Zemlya Island.
21	06 39 38*	17-1/2 S.	169 E.	New Hebrides Islands.
21	07 11 52*	14 S.	14-1/2 W.	Atlantic Ocean.
21	07 50 06*	27 N.	112 W.	Lower California.
21	09 18 02**			Near coast of Oregon.
21	13 28 35*	32 S.	178-1/2 W.	Kermadec Islands.
21	22 42 55*	6 S.	148 E.	Bismarck Sea.
22	03 25 03*	24 N.	123 E.	Off east coast of Formosa. Felt at Taipeh.
22	05 34 26**			New Britain.
23	12 23 00*	15 S.	170 E.	New Hebrides Islands.
23	15 06 19*	27 N.	101-1/2 E.	Yunnan Province, China. Mag. 6-3/4.
23	17 52 13**			Sikang Province, China.
23	19 17 29**			New Hebrides Islands.

Date 1955	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Sept.	h m s	° '	° '	
24	02 00 45*	32 S.	178 W.	Kermadec Islands.
24	10 21 29*	22 N.	122 E.	Off east coast of Formosa.
24	16 50 45*	23 S.	68 W.	Northern Chile. Felt at Antofagasta and Calama. h about 100 km.
24	19 51 43**			Solomon Islands.
25	08 35 52*	43 N.	46 E.	Southern Kurasia.
25	11 34 57**			Tonga Islands region.
25	18 47 26**			Near coast of Guatemala
25	18 59 22*	6 N.	127-1/2 E.	Off east coast of Mindanao, Philippine Islands. Felt on Mindanao. h about 100 km. Mag. 6-1/2.
26	08 28 20*	15-1/2 N.	92-1/2 W.	Chiapas, Mexico. h about 200 km. Mag. 6-3/4.
27	20 37 12**			Kermadec Islands. Felt on Raoul Island.
28	01 46 36*	27 N.	101-1/2 E.	Yunnan Province, China.
28	04 21 43**			Celebes Sea.
28	18 09 40*	15 N.	97-1/2 W.	Near coast of Oaxaca, Mexico. Mag. 6.
28	19 47 47*	20 N.	146 E.	Marianas Islands.
29	08 38 28**			Near east coast of Kamchatka.
29	11 30 33*	51-1/2 N.	176 W.	Andreanof Islands, Aleutian Islands.
29	12 58 29*	28 N.	101 E.	Sikang Province, China.
29	19 58 27*	40 N.	141 E.	Northern Honshu, Japan. h about 150 km.
30	03 08 46*	8 N.	126-1/2 E.	Mindanao foreshock.
30	03 22 12**			Andreanof Islands, Aleutian Islands.
30	03 42 17**			Sikang Province, China.
30	07 01 22*	7-1/2 N.	126-1/2 E.	Near east coast of Mindanao, Philippine Islands.
30	13 47 37*	51-1/2 N.	176-1/2 W.	Andreanof Islands foreshock.
30	19 14 24*	51-1/2 N.	176-1/2 W.	Andreanof Islands, Aleutian Islands.

Date and Station		Phase (GCT) h m s
Sept. 1		
HH	iP	00 40 19
Sept. 1		
HH	e(P)	00 47 24
	e	50 05
Sept. 1		
HH	e(P)	03 47 06
Sept. 1		
COL	eP	04 25 14
EUR	e(P)	04 25 34
Sept. 1		
EUR	e(P)	04 36 45
Sept. 1		
HH	e(P)	05 58 25
Sept. 1		
EUR	e(P)	06 20 21
HH	iP	06 19 08
	i	19 29
Sept. 1		
HH	e(P)	06 35 50
Sept. 1		
HH	iP	07 52 18
Sept. 1		
HH	i(P)	08 07 59
Sept. 1		
COL	eP	08 59 55
HH	e(P)	08 56 59
TUC	e(P)	08 55 05
	i	55 17
Sept. 1		
EUR	iP	10 12 01
Sept. 1		
BC	eP	13 26 55
	e	27 07
BOZ	iP	13 26 28
	i	27 07
BUT	eP	13 26 34
COL	iP	13 23 05
EUR	iP	13 26 31
	i	26 43
HH	iP	13 26 01
	e	26 18
	i	26 24
	i	26 40
SIC	eP	13 27 02
SJ	eP	13 31 18
Sept. 1		
COL	iP	15 46 02
EUR	iP	15 43 10
HH	iP	15 43 43
SIC	eP	15 43 01
SJ	iP	15 38 39
Sept. 1		
BH	eP	17 34 17
	e(S)	35 49
BC	e(P)	17 40 21
	ePP	41 56
BOZ	eP	17 40 58
BUT	eP	17 41 12
	ePP	42 52
	eL	54 04
COL	iP	17 44 13
COLU	iP	17 38 19
	iPP	38 45
	e(S)	42 34
	iL	42 44
EUR	eP	17 40 47
	e	40 52
HH	eP	17 41 23
	e	41 47
	ePP	43 14
SIC	e(P)	17 41 00
SJ	iP	17 37 32
	eS	41 12
	eL	42 12
TUC	e(P)	17 40 16
	e	40 43
	eL	50 14
WASH	iP	17 39 10
	ePP	40 16
	e	41 24
	eL	49 10
Sept. 1		
BH	eP	21 16 47
HH	e(P)	21 23 55
SIC	e	21 27 54
SJ	eP	21 20 02
	e	23 40
	eL	24 14
Sept. 1		
COL	iP	21 53 28
HH	e(P)	21 56 24
	i	58 55
Sept. 1		
BC	iP	22 50 12
BUT	e(P)	22 49 35
COL	iP	22 46 08
EUR	iP	22 49 51
HH	iP	22 49 14
	ePcP	50 10
	esP	51 18
	iScP	53 22
	eScS	58 19
TUC	iP	22 50 43
Sept. 2		
COL	iP	03 44 33
HH	e(P)	03 49 32
SJ	i(P)	03 51 38
TUC	iP	03 42 33
Sept. 2		
COL	iP	06 30 23
HH	iP	06 34 49
	e	35 04
Sept. 2		
BC	iP	10 44 04
BOZ	eP	10 43 41
COL	iP	10 46 19
EUR	iP	10 43 50
HH	iP	10 43 38
SIC	eP	10 43 52
TUC	e(P)	10 43 57
	iP	44 01
Sept. 2		
EUR	iP	10 49 59
HH	e(P)	10 49 48
Sept. 2		
COL	iP	12 19 18
Sept. 2		
COL	iP	12 58 27
EUR	iP	12 55 44
HH	eP	12 56 18
	e	56 48
Sept. 2		
BC	iP	13 29 47
COL	iP	13 29 32
EUR	iP	13 29 48
HH	e(P)	13 30 42
Sept. 2		
EUR	iP	15 51 11
	iS	51 27
	iL	51 49
Sept. 2		
EUR	e(P)	16 03 12
Sept. 2		
COL	iP	16 58 50
	ipP	59 07
EUR	iP	16 59 26
	ipP	59 44
Sept. 2		
COL	iP	18 17 10
HH	e(P)	18 16 22
Sept. 2		
BOZ	eP	20 03 47
HH	iP	20 03 38
Sept. 2		
COL	iP	21 24 38
HH	e(P)	21 26 23
SJ	eP'	21 32 03
Sept. 2		
HH	e(P)	21 41 49
Sept. 2		
BC	eP	23 09 37
	e	09 47
BOZ	eP	23 10 20
BUT	eP	23 10 47
COL	iP	23 13 28
HH	iP	23 10 44
SJ	eP	23 07 20
TUC	eP	23 08 55
	i	09 05
Sept. 2		
COL	iP	23 30 39
Sept. 2		
COL	iP	23 57 43
HH	e(P)	00 01 49

Date and Station		Phase (GCT)
		h m s
Sept. 3		
COL	iP	01 07 22
Sept. 3		
SIC	eP	02 09 52
Sept. 3		
COL	iP	03 57 52
	ipP	59 10
HH	iP	03 57 55
TUC	iP	03 57 26
Sept. 3		
BC	iP	05 31 12
BOZ	eP	05 31 12
	eL	45 33
BUT	eP	05 31 23
	i	31 59
	i	32 13
	e	35 13
COL	iP	05 34 08
	eL	56 34
COLU	iP	05 27 17
	eL	31 19
HH	iP	05 31 34
SIC	eP	05 30 57
	eS	37 22
	eL	44 36
SJ	iP	05 24 04
	iS	24 44
	iL	24 58
TUC	iP	05 30 39
	eL	47 15
WASH	eP	05 27 55
	e(S)	31 22
	iL	32 07
Sept. 3		
HH	e(P)	05 43 48
	e	45 27
Sept. 3		
COL	iP	10 47 24
	ipP	49 26
HH	e(P)	10 44 51
Sept. 3		
BC	e(P)	11 15 18
SIC	eP	11 14 19
Sept. 3		
HH	iP	12 39 10
	eS	41 32
BC	iP	12 42 39
	i	42 46

Date and Station		Phase (GCT)
		h m s
BC	ePcP	12 45 28
BOZ	eP	12 43 18
	ipP	43 36
	i	44 08
	iPcP	45 48
	eS	48 51
	iScP	49 21
	eL	51 51
BUT	iP	12 43 26
	ipP	43 48
	isP	44 06
	e(PP)	45 08
	i	45 26
	iS	49 13
	i	50 06
	iL	52 38
	eScS	53 44
COL	iP	12 46 46
	iPcP	47 26
	i	47 35
	ePP	49 00
	ePPP	50 36
	eS	55 36
	eSS	59 44
	eL	13 02 18
COLU	iP	12 41 13
	iS	45 14
	eL	48 10
HONO	eP	12 46 51
	ipP	47 11
HH	eP	12 43 46
	iP	43 48
	i	44 49
	ePP	45 21
	iPcP	45 54
	i	47 46
	eS	49 42
	e	50 36
	e(P'P')	13 15 27
	eP'P'	17 36
SIC	iP	12 42 49
	i	43 04
	ipP	43 21
	i	43 44
	i	44 19
	iPcP	45 36
	eS	48 06
	isS	48 36
	iScP	49 26
	eL	50 26
SJ	iP	12 41 31
	epP	41 57
	iPcP	45 12
	eS	45 57
	iS	46 01
	eL	46 50
TUC	iP	12 41 49
	i	43 30
	e(PcP)	45 34
	iS	46 20
	eL	50 18

Date and Station		Phase (GCT)
		h m s
UK	eP	12 43 30
	e(P)	44 17
	eS	49 27
	eL	52 32
	eScS	53 21
WASH	iP	12 42 05
	i	42 12
Sept. 3		
COL	iP	13 43 22
Sept. 3		
BC	iP'	16 41 37
	ePP	42 16
	i	42 45
	ePKKP	52 05
BOZ	iP'	16 41 34C
	ipP	42 35
	iPKKP	52 16
	e	53 29
BUT	eP	16 37 41
	iP'	41 30
	e(PP)	42 57
	iPKKP	52 22
	e	53 32
COL	iP	16 35 51
	i	36 17
	i	36 35
	i(SKS)	45 47
	iS	46 22
	eSP	47 47
	e	48 44
	eSS	52 22
	e(SSS)	55 00
	eL	17 00 39
COLU	iP'	16 42 12
	iPP	45 16
	e	47 06
	eSKKS	51 39
	iSKSP	55 23
	eSS	17 04 26
EUR	i(P)	16 37 43
	iP'	41 32
	iPP	42 31
	e	44 20
	iPKKP	52 13
HONO	iP	16 35 08D
HH	eP	16 37 31
	iP'	41 26
	iPP	42 12
	ePPP	44 23
	e(SKS)	47 29
	e	47 39
	eSKKS	48 32
	e	48 44
	ePKKP	52 19
	e(P'P')	17 02 38
RC	eP'	16 41 28
	ePP	43 24

Date and Station		Phase (GCT)
		h m s
RC	eSKS	16 48 22
	eSKKS	49 41
	ePPS	54 29
SIC	iP'	16 41 37C
	iPP	42 43
	e(PKKP)	51 58
SJ	iP'	16 42 50
	i	43 32
	i	43 57
	i	44 43
	ePP	47 10
	e	47 54
	eSKKS	53 24
	eSKSP	57 14
	ePPPS	17 00 30
	eSS	07 00
	e(SSS)	12 36
	eL	24 18
TUC	iP'	16 41 44
	iPP	43 12
	e	44 18
	i	47 25
	eSKS	48 18
	ePKKP	51 48
	iPPS	54 44
	i(SS)	17 00 20
	eSSS	05 38
	eL	13 30
WASH	iP'	16 42 17
Sept. 3		
HH	e(P)	17 57 12
Sept. 3		
HH	i(P)	18 31 49
Sept. 4		
COL	iP	02 33 12
Sept. 4		
BC	eP	02 57 08
EUR	iP	02 57 35
	i	57 54
HH	e(P)	02 58 22
SIC	eP	02 57 24
TUC	eP	02 56 24
Sept. 4		
BC	eP	04 52 22
	i	52 38
EUR	e(P)	04 52 46
HH	eP	04 53 28
	i	53 35
SIC	eP	04 52 36
TUC	e(P)	04 51 41
	i	51 47

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Date and Station		Phase (GCT) h m s
Sept. 4		
BC	e(P)	06 59 15
BUT	e	07 02 10
COL	eP	06 59 52
	i	07 00 43
EUR	e(P)	06 59 13
HH	eP	06 59 22
SLC	eP	06 59 18
TUC	iP	06 59 05
Sept. 4		
COL	eP	09 33 47
Sept. 4		
COL	eP	10 03 54
Sept. 4		
EUR	e(P)	11 40 00
Sept. 4		
BC	iP	11 41 01
	ipP	41 25
BOZ	iP	11 41 31
BUT	iP	11 41 38
	ipP	42 02
	e	43 45
	e(PP)	45 13
COL	iP	11 43 41
	ipP	44 06
	e(P')	47 21
COLU	iP	11 39 21
	ipP	39 51
	iS	47 08
	i	49 42
EUR	iP	11 41 19
	ipP	41 42
	e(PP)	43 59
	eP'P'	12 08 55
HH	iP	11 41 49
	ipP	42 13
	e	43 29
	eS	51 52
	esS	52 30
	ePKKP	12 00 29
RC	eP	11 41 00
	e(S)	51 00
SLC	iP	11 41 12
	ipP	41 35
SJ	iP	11 37 13
	ipP	37 43
	iPP	38 56
	i	40 04
	eS	43 08
	i	43 47

Date and Station		Phase (GCT) h m s
SJ	iL	11 46 22
TUC	iP	11 40 30
	ipP	40 53
	eP'P'	12 08 58
WASH	eP	11 39 49
Sept. 4		
HH	eP	12 24 35
	e	24 42
Sept. 4		
EUR	e(P)	13 34 51
Sept. 4		
BC	iP	19 21 05
BOZ	iP	19 20 40
BUT	eP	19 20 34
	i	21 01
	ePP	23 06
COL	eP	19 17 30
	iP	17 31
	eS	23 52
	eL	26 16
EUR	iP	19 20 47
	i	21 09
HH	iP	19 20 18
	e(PP)	23 10
SLC	iP	19 20 57
TUC	iP	19 21 33
	i	22 35
Sept. 4		
COL	eP'	22 32 15
EUR	eP'	22 32 01
HH	eP'	22 31 43
Sept. 4		
EUR	eP	23 55 40
	iP	55 42
	iS	56 05
	iL	56 37
HH	e(P)	00 00 12
Sept. 5		
COL	eP	00 32 42
Sept. 5		
BC	eP	02 02 46
	i	02 47
BOZ	eP	02 04 08
	iP	04 10
	e(S)	06 38
	eL	07 04
BUT	eP	02 04 01
	iP	04 03

Date and Station		Phase (GCT) h m s
BUT	i	02 04 18
	i	04 29
	i	05 48
	i(S)	06 34
	iL	07 04
CHI	eP	02 06 59
	eS	11 38
	eL	13 10
COL	iP	02 07 43
	e(PP)	09 13
	eL	13 24
COLU	iP	02 07 56
	eS	13 23
	eL	17 16
EUR	iP	02 02 34
	iL	08 08
HH	eP	02 04 17
	e(S)	06 40
	eL	07 29
RC	iP	02 05 04
	e	05 57
	e(S)	08 31
	iL	09 27
SLC	iP	02 03 28
	i(S)	05 41
	iL	06 13
SJ	eP	02 10 27
TUC	eP	02 03 47
	i	03 51
	e(S)	06 00
	iL	06 46
UK	eP	02 01 50
	eS	02 07
	eL	02 13
Sept. 5		
HH	e(P)	02 18 32
Sept. 5		
BUT	eP	04 31 05
COL	iP	04 30 40
Sept. 5		
BC	e(P)	07 12 23
	e	13 25
COL	iP	07 12 50
	ipP	14 50
EUR	iP	07 12 28
	epP	14 30
HH	eP	07 12 54
	ePP	16 52
	iPKKP	30 04
TUC	iP	07 12 27
	epP	14 26

Date and Station		Phase (GCT) h m s
Sept. 5		
HH	iP	08 51 57
Sept. 5		
HH	e(P)	09 42 09
Sept. 5		
HH	eP	10 06 18
Sept. 5		
COL	iP	10 28 51
EUR	eP	10 28 20
TUC	eP	10 28 21
Sept. 5		
COL	eP	11 40 42
	i	41 00
Sept. 5		
BC	iP	11 55 58
BUT	eP	11 56 40
COL	iP	11 59 04
EUR	iP	11 56 19
HH	iP	11 56 56
TUC	iP	11 55 23
Sept. 5		
COL	iP	13 14 25
Sept. 5		
COL	eP	15 01 15
Sept. 5		
COL	iP	16 53 53
Sept. 5		
HH	i(P)	17 24 52
Sept. 5		
BUT	eP'	17 31 16
COL	eP	17 25 58
COLU	eP'	17 32 06
	i	34 40
EUR	iP'	17 31 16
HH	iP'	17 31 12
SJ	iP'	17 33 38
TUC	iP'	17 31 29
WASH	iP'	17 32 01
Sept. 5		
COL	iP	19 11 04
EUR	iP	19 11 40
	i	12 01

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Date and Station		Phase (GCT)
		h m s
Sept. 6		
HH	e(P)	01 04 20
Sept. 6		
COLU	eP	01 47 04
EUR	e(P)	01 45 25
HH	eP	01 45 11
	eL	54 47
Sept. 6		
COL	eP	03 17 44
Sept. 6		
EUR	iP	05 04 46
HH	iP	05 04 24
Sept. 6		
HH	e(P)	06 19 12
Sept. 6		
HH	i(P)	07 02 46
Sept. 6		
BUT	eP	09 31 59
	ipP	33 56
COL	iP	09 29 35
EUR	iP	09 32 05
	ipP	34 02
HH	iP	09 31 48
	i	32 03
	e	33 33
	ipP	33 43
Sept. 6		
COL	iP	09 58 35
	iS	58 52
	iL	58 57
Sept. 6		
EUR	e(P)	14 51 04
Sept. 6		
COL	iP	19 03 58
Sept. 6		
EUR	eP	20 11 38
	i	11 52
	i(S)	12 43
	i	12 52
	iL	13 10
TUC	e(P)	20 14 16
Sept. 6		
EUR	iP	20 56 40
	iS	57 09
	iL	57 39
Sept. 6		
BC	eP	21 05 56
BOZ	eP	21 06 14

Date and Station		Phase (GCT)
		h m s
COL	iP	21 02 47
	i	03 04
EUR	iP	21 06 17
	i	08 25
HH	iP	21 05 46
	i	08 14
	e(S)	11 56
SJ	iP	21 11 19
TUC	iP	21 07 22
Sept. 7		
COL	eP	01 04 15
Sept. 7		
BC	eP'	03 39 05
	iP'	39 06
	ePP	42 29
BOZ	eP'	03 38 48
	ePP	41 30
BUT	ePP	03 41 21
COL	e(P')	03 38 03
EUR	eP'	03 38 54
	iP'	38 55
	ePP	41 56
HH	eP'	03 38 41
	e	39 16
	ePP	41 08
SLC	eP'	03 38 57
	ePP	41 56
TUC	eP'	03 39 11
	iP'	39 16
WASH	ePP	03 40 55
	e	41 27
	ePKS	42 05
	e	43 13
Sept. 7		
COL	iP	03 52 12
Sept. 7		
COL	iP	06 19 40
HH	eP	06 21 45
Sept. 7		
BC	eP	06 36 26
	i	36 34
BOZ	eP	06 36 37
BUT	eP	06 36 34
HH	eP	06 36 42
	i	36 48
SLC	eP	06 36 31

Date and Station		Phase (GCT)
		h m s
Sept. 7		
HH	iP	10 04 39
Sept. 7		
COL	iP	10 20 26
Sept. 7		
SLC	eP	10 49 54
Sept. 7		
COL	eP	13 00 21
	e	00 46
EUR	e(P)	12 59 17
HH	eP	12 58 25
Sept. 7		
HH	i(P)	15 15 29
Sept. 7		
BC	e(P)	18 47 24
Sept. 7		
COL	eP	19 16 57
	iP	17 07
	iL	19 02
Sept. 7		
EUR	e(P)	20 46 36
HH	e(P)	20 46 54
SJ	iP	20 38 49
	i(S)	39 59
	iL	40 10
Sept. 7		
BOZ	e(P)	20 59 00
EUR	e(P)	20 58 56
HH	e(P)	20 59 04
SLC	e(P)	20 58 52
SJ	iP	20 52 07
Sept. 8		
BOZ	eP	00 47 39
BUT	eP	00 47 33
COL	eP	00 45 25
EUR	iP	00 47 29
	i	47 45
HH	eP	00 47 21
SLC	eP	00 47 49
TUC	e(P)	00 48 03
Sept. 8		
COL	iP	01 04 20
Sept. 8		
BC	eP'	02 22 15

Date and Station		Phase (GCT)
		h m s
BC	ePP	02 23 54
BOZ	eP'	02 22 27
BUT	eP'	02 22 30
	ePP	24 41
	ePPP	27 17
COL	eP'	02 23 07D
	i	23 25
	i	23 38D
	i	23 57D
EUR	eP'	02 22 21D
	i	22 41
	iPP	24 33
	ePKKP	31 29
HH	eP'	02 22 28C
	iP'	22 32D
	ePP	25 04
	ePKS	26 00
	ePS	35 30
SLC	eP'	02 22 19
SJ	iP	02 16 00C
	ePP	19 25
	eS	26 25
	e	27 14
	eSS	32 11
	eSSS	36 34
	eL	38 26
TUC	eP'	02 22 07C
	e	22 26
	i	22 34
	iPP	23 22
	e	25 14
	ePS	33 11
	iPPS	34 40
	eSS	39 36
	eSSS	44 24
	e	48 12
	eL	56 46
WASH	e(P')	02 22 01
	eL	59 03
Sept. 8		
BUT	eP	02 35 38
Sept. 8		
COL	eP	03 38 15
Sept. 8		
BH	iP	03 32 08
	eS	32 43
BC	eP	03 39 36
BOZ	eP	03 40 06
BUT	eP	03 40 23
EUR	eP	03 39 59

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Date and Station		Phase (GCT) h m s
SJ	eP	03 35 02
	i	35 12
TUC	e(P)	03 39 06
Sept. 8		
BC	eP	03 40 59
BUT	ePP	03 44 55
COL	iP	03 39 40
	i	40 01
COLU	eP'	03 46 12
EUR	iP	03 40 33
	i	43 39
	ePKKP	57 40
HONO	eP	03 36 45
	eL	50 32
T_L = 20 sec. $A_{max.}$ = 2 mm.		
HH	eP	03 40 30
	e	43 58
SLC	eP	03 40 48
	e	44 00
SJ	eP'	03 46 35
	iP'	46 42
	ePP	50 12
	ePKS	51 07
	eSKS	54 24
	e	04 03 10
	eSS	08 20
	eL	25 17
TUC	e(P)	03 41 06
	e	44 03
	ePP	44 44
	e(PS)	53 52
	eSS	59 08
	eL	04 06 54
Sept. 8		
EUR	eP	04 05 55
HH	e(P)	04 05 42
Sept. 8		
COL	iP	04 57 14
	i	57 27
EUR	ePP	05 04 42
	ePKKP	15 03
Sept. 8		
TUC	e(P)	07 13 27
Sept. 8		
HH	e(P)	10 00 21
Sept. 8		
EUR	e(P)	10 52 10
Sept. 8		
BC	iP	11 09 22
BUT	eP	11 08 42
COL	eP	11 05 12
	i	05 24
EUR	iP	11 08 59
HH	iP	11 08 22
	iPcP	09 37
SLC	eP	11 09 10
	i	09 25
TUC	i(P)	11 09 55
	i	10 11
Sept. 8		
COL	eP	11 11 24
Sept. 8		
HH	eP	13 24 05
	e	25 30
Sept. 8		
COL	iP	17 04 08
Sept. 8		
COL	eP	17 05 34
	epP	06 31
EUR	iP	17 05 08
	ipP	06 04
HH	eP	17 05 37
Sept. 8		
EUR	eP	17 55 01
	e	55 59
Sept. 8		
COL	iP	18 13 15
	i	13 21
EUR	e(P)	18 17 11
HH	e(P)	18 16 45
Sept. 8		
COL	eP	19 04 06
Sept. 8		
COL	iP	20 38 20
EUR	eP	20 39 12
HH	e(P)	20 43 09
	e	44 42
Sept. 8		
COL	eP	21 45 32
Sept. 8		
BUT	eP	22 08 44
HH	eP	22 07 05
	i	07 17
	i(S)	08 11
	iL	08 17
Sept. 8		
COL	eP	22 23 01
Sept. 8		
BOZ	eP	23 49 04
BUT	eP	23 48 47
	eL	52 24
COL	iP	23 52 33
EUR	eP	23 49 12
	iP	49 14
HH	eP	23 48 19
	eL	51 18
SLC	eP	23 49 33
	e	51 21
TUC	i(P)	23 50 50
Sept. 8		
EUR	i(P)	23 52 54
	e	52 51
Sept. 9		
COL	eP	01 04 14
Sept. 9		
SJ	iP	02 06 54
	i(S)	07 22
	iL	07 31
Sept. 9		
COL	eP	03 20 34
EUR	iP	03 22 37
HH	eP	03 22 22
Sept. 9		
COL	iP	04 48 06
Sept. 9		
EUR	e(P)	04 56 42
Sept. 9		
COL	iP	05 02 08
EUR	iP	05 02 25
HH	iP	05 01 40
	e	02 41
Sept. 9		
COL	iP	08 08 22
EUR	iP	08 11 52
Sept. 9		
EUR	iP	09 01 14
Sept. 9		
BC	iP'	10 01 17
	e	01 33
	ePP	03 53
	i	04 02
BOZ	e(P')	10 01 06
	iP'	01 10
	i	01 24
BUT	iP'	10 01 13
	iPP	03 18
COL	eP	09 55 49
	i	56 10
	iP'	59 15
COLU	eP'	10 01 44
	ePP	05 15
	ePKS	06 12
EUR	iP'	10 01 11
	i	01 24
	iPP	03 15
	iPKS	04 31
HH	iP'	10 01 01
	ePP	02 50
	i	03 03
SLC	iP'	10 01 15
	i	01 29
SJ	eP'	10 02 11
	i	02 35
	i	02 49
	ePP	06 27
TUC	eP'	10 01 16
	i	01 26
	ePP	04 10
	eL	11 20 27
WASH	iP'	10 01 29
	i	01 48
	iPP	05 00
Sept. 9		
BC	e(P)	16 34 36
	e	34 50
COL	iP	16 33 40
EUR	iP	16 34 31
	i	34 47
HH	eP	16 34 41
	e(PP)	39 29
SLC	e(P)	16 34 06
Sept. 9		
COL	iP	17 58 07
EUR	iP	17 58 54
HH	e(P)	18 01 22
Sept. 9		
HH	e(P)	19 04 07
Sept. 9		
COL	eP	22 04 15

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Date and Station		Phase (GCT)
		h m s
Sept. 10		
BC	e(P)	00 56 46
BUT	eP	00 57 00
COL	iP	00 57 49
	i	58 01
EUR	eP	00 56 52
	e	57 19
HH	iP	00 57 02
	i	01 00 41
SJ	iP	00 50 21
Sept. 10		
EUR	e(P)	01 28 50
Sept. 10		
HH	e(P)	01 52 57
Sept. 10		
EUR	eP	04 47 13
	i	47 39
Sept. 10		
COL	eP	05 00 11
	iP	00 19
	eS	00 53
	iS	00 58
	iL	01 08
Sept. 10		
COL	iP	05 09 58
	i	10 07
	iL	10 41
Sept. 10		
EUR	e(P)	05 39 27
Sept. 10		
COL	eP	05 51 43
HH	eP	05 54 04
	e	54 09
Sept. 10		
BC	iP	06 03 33
BOZ	eP	06 03 01
BUT	eP	06 02 52
COL	iP	05 59 20
	e(PP)	06 00 13
	e	01 04
	e	01 16
	eS	03 21
	iS	03 33
	eL	04 35
EUR	iP	06 03 09
	i	03 44
HH	iP	06 02 33
	ePP	04 21

Date and Station		Phase (GCT)
		h m s
SLC	eP	06 03 20
TUC	iP	06 04 09
	i	04 14
Sept. 10		
COL	iP	06 13 15
	i	13 37
Sept. 10		
COL	eP	07 16 15
Sept. 10		
BOZ	eP	07 28 03
	i	28 21
BUT	eP	07 28 22
	i	28 51
HH	eP	07 29 04
	i(S)	30 02
	iL	30 07
SLC	e(P)	07 29 53
Sept. 10		
COL	iP	07 46 15
	ipP	46 41
EUR	eP	07 47 11
	ipP	47 33
Sept. 10		
HH	e(P)	08 20 24
Sept. 10		
BC	iP	09 37 25
BOZ	eP	09 37 01
BUT	eP	09 36 51
	ePcP	38 56
COL	iP	09 33 47
	eS	37 29
	eL	39 30
EUR	iP	09 37 02
	iPcP	39 00
HH	iP	09 36 35
	iPcP	38 50
SLC	iP	09 37 18
TUC	iP	09 38 04
	iPcP	39 28
Sept. 10		
SLC	eP	12 14 43
Sept. 10		
BC	eP	12 40 21
	i	40 23
BOZ	eP	12 41 42
COL	eP	12 45 14

Date and Station		Phase (GCT)
		h m s
EUR	eP	12 40 54
	iP	40 56
HH	e(P)	12 42 06
SLC	eP	12 40 57
TUC	eP	12 39 22
Sept. 10		
BUT	eP	18 24 35
HH	e(P)	18 23 18
	e(S)	24 03
	iL	24 10
Sept. 10		
COL	eP	19 04 15
	e	04 58
Sept. 10		
BOZ	eP	19 38 17
	eL	41 19
BUT	eP	19 39 15
	e	40 07
HH	e(P)	19 39 15
	e	40 26
	eL	41 41
SLC	eP	19 37 00
	e(S)	37 52
	eL	38 09
TUC	e(P)	19 38 31
	i	39 44
Sept. 10		
COL	eP	21 10 22
HH	eP	21 12 37
Sept. 10		
COL	eP	21 16 55
	ePP	20 05
EUR	e(P)	21 19 57
	ePP	23 09
	ePKKP	34 43
HH	eP	21 18 43
	ePP	23 02
SJ	iP'	21 24 33
Sept. 10		
COL	eP	22 04 13
	e	04 57
Sept. 10		
COL	eP	22 16 55
Sept. 10		
COL	iP	22 20 35
EUR	eP	22 21 29

Date and Station		Phase (GCT)
		h m s
Sept. 10		
COL	eP	22 28 21
Sept. 11		
BOZ	eP	00 55 18
	eL	57 51
BUT	eP	00 55 05
	i	55 29
	eS	57 01
	iL	57 18
COL	eP	00 57 14
EUR	iP	00 55 23
	e	59 17
HH	eP	00 54 28
	e(S)	55 33
	iL	56 03
TUC	eP	00 57 11
	iP	57 12
Sept. 11		
COL	eP	01 04 11
HH	eP	01 04 14
Sept. 11		
BC	eP	01 59 12
	i	59 19
BOZ	eP	01 59 48
BUT	eP	02 00 00
COL	iP	02 02 34
	ePP	05 49
EUR	iP	01 59 33
	i	59 40
	i	02 00 06
HH	iP	02 00 09
SLC	eP	01 59 23
	i	59 32
SJ	eP	01 55 20
TUC	iP	01 58 35
	i	58 42
	eL	02 15 48
Sept. 11		
BUT	eP	02 31 39
Sept. 11		
HH	eP	03 05 55
Sept. 11		
COL	eP	06 15 41
Sept. 11		
BC	eP	08 50 40
BOZ	eP	08 51 07

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Date and Station		Phase	(GCT) h m s
BUT	eP		08 51 16
COL	iP		08 54 32
COLU	eP		08 47 57
EUR	iP		08 51 01
HH	iP		08 51 34
	ePcP		53 30
	e	(PPP)	53 42
PHIL	eP		08 49 14
	eS		53 31
	eL		56 25
SLC	eP		08 50 45
TUC	e	(P)	08 50 04
	eL		09 03 08
Sept. 11			
BUT	e	(P)	09 08 31
	eL		12 11
COL	eP		09 13 15
HH	e	(P)	09 07 37
	eL		10 50
Sept. 11			
EUR	e		09 36 39
HH	eP		09 31 05
Sept. 11			
COL	eP		12 13 45
TUC	iP		12 05 41
Sept. 11			
BC	iP		12 28 26
BOZ	eP		12 28 09
BUT	eP		12 28 11
	ipP		28 34
	isP		28 58
COL	iP		12 25 26
	epP		25 48
EUR	iP		12 28 11
	ipP		28 36
	ePP		31 11
HH	iP		12 27 51
	ipP		28 17
SLC	eP		12 28 22
TUC	iP		12 28 50
	e	(pP)	29 21
Sept. 11			
BC	iP		12 35 40
EUR	iP		12 35 46

Date and Station		Phase	(GCT) h m s
Sept. 11			
EUR	eP		14 28 23
Sept. 11			
BOZ	eP		15 22 03
BUT	eP		15 22 06
EUR	iP		15 21 24
HH	iP		15 22 19
Sept. 11			
BC	eP		18 07 52
	e		08 11
BOZ	eP		18 08 23
	ePP		12 18
	eSKS		18 47
	e	(S)	20 02
	ePS		21 06
	ePPS		21 52
	eSS		26 34
	eSSS		30 30
	eL		35 20
BUT	ePP		18 12 08
	e	(SKS)	18 47
	ePS		20 40
	eSS		26 33
	eSSS		30 08
	eL		34 15
CHI	ePS		18 23 46
	e	(PPS)	25 25
	eSS		29 30
	eSSS		34 32
	eL		43 16
COL	iP		18 06 55D
	iS		17 12
	e	(PS)	18 10
	eL		29 07
EUR	eP		18 07 48C
	iP		07 49D
HH	e	(P)	18 08 07
SLC	e	(P)	18 08 06
SJ	ePP		18 17 27
	ePKS		18 24
	e		22 09
	eL		50 06
SIT	eP		18 07 08
	eS		17 33
	iS		17 34
	ePS		18 34
	eSS		23 24
TUC	eP		18 08 07
	e	(P)	09 33
	ePP		11 58
	ePS		20 48
	eSS		26 37
	e	(P'P')	33 38
	eL		34 02

Date and Station		Phase	(GCT) h m s
UK	e	(P)	18 07 10
	eS		18 07
	ePS		19 12
	eSSS		27 15
Sept. 11			
BC	iP		18 17 38
BOZ	eP		18 17 46
	ePP		21 45
	e	(SKS)	28 36
	ePS		30 36
	ePPS		31 30
	e	(SS)	36 11
	eL		45 32
BUT	eP		18 17 51
	ePP		21 40
COL	iP		18 16 43
	ePP		20 05
	ePPP		22 25
	eS		27 16
	eL		36 40
EUR	iP		18 17 35
HONO	eP		18 13 43
	e		14 15
	e	(S)	21 26
	eL		27 04
HH	eP		18 17 45
	ePP		21 34
	i		24 22
SLC	eP		18 17 50
	e	(PKKP)	35 09
SJ	ePKS		18 27 19
	e		27 56
	eSKS		31 11
	eL		19 05 22
SIT	eP		18 16 54
	eS		27 18
	ePS		28 21
	eSS		33 01
	eL		38 36
TUC	eP		18 17 56
	ePP		21 47
WASH	e		18 39 09
	eL		51 02
UK	e	(S)	18 28 43
	eL		36 50
Sept. 11			
EUR	iP		22 23 41
Sept. 11			
EUR	eP		22 40 26
Sept. 11			
COL	eP		23 40 54

Date and Station		Phase	(GCT) h m s
Sept. 12			
COL	iP		01 56 04
Sept. 12			
EUR	iP		03 03 07
Sept. 12			
BC	eP		06 23 27C
	iP		23 42D
	iPKKP		39 14
	i		39 32
BOZ	iP		06 22 44C
	i		23 04
	ePP		26 42
	eSKS		33 14
	eS		33 52
	ePS		35 19
	e	(PPS)	36 39
	e	(PKKP)	39 42
	eSS		40 24
	eSSS		44 30
	eP'P'		48 24
	eL		51 06
BUT	eP		06 22 43C
	i		23 04
	e		23 36
	e		24 20
	iPP		26 41
	i		26 59
	iSKS		33 11
	iS		33 53
	iPS		35 05
	ePPS		36 13
	eSS		40 32
	eSSS		44 32
	eL		48 29
CHI	e	(P)	06 22 02
	eP		22 12
	iS		32 22
	i		32 34
	eScS		33 14
	ePS		33 30
	eSS		38 22
	eSSS		42 38
	eL		48 10
COL	iP		06 21 47D
	i		22 07
	e		22 38
	ePP		25 00
	iPP		25 15
	i		25 41
	e	(PPP)	26 51
	e		28 00
	iS		32 00
	iPPS		33 17
	e		34 10
	eSS		37 54
	iPKKP		40 06
	i		40 27
	eL		42 53
	iP'P'		48 06
	iSKPP'		51 32

Date and Station		Phase (GCT)
		h m s
COLU	iP	06 22 10C
	i	22 29
	iSKS	32 28
	i	32 44
	eL	45 48
EUR	iP	06 23 15C
	iPP	26 54
	iPKKP	39 21
	i	39 45
	iP'P'	47 27
HH	iP	06 22 36C
	i	22 46
	iPP	26 18
	ePPP	28 20
	eSKS	33 03
	eS	33 38
	eSS	39 43
	eL	47 53
RC	eP	06 22 38
	e	22 57
	ePP	26 16
	eSKS	33 03
	eS	33 35
	ePS	34 49
	ePPS	35 31
	eL	50 31
SLC	eP	06 23 02C
	i	23 22
	iPP	27 24
	eSKS	33 38
	eS	34 14
	e	36 06
	ePS	36 32
	ePKKP	39 56
	eSS	42 06
	eSSS	46 20
	e(P'P')	47 34
	eL	51 58
SJ	iP	06 21 58C
	ePP	25 14
	eS	32 17
	iS	32 18
	eSS	38 14
	eSSS	42 18
	eL	45 14
SIT	eP	06 22 22
	e	24 03
	ePP	26 09
	eSKS	32 44
	iS	33 11
	ePS	33 53
	eL	45 44
TUC	eP	06 23 39
	i	23 56
	iPP	28 16
	iSKS	34 12
	i	34 32
	iPS	37 08
	iPKKP	39 10
	i	39 26

Date and Station		Phase (GCT)
		h m s
WASH	iP	06 21 42C
	e(S)	32 34
	iSS	37 04
	eL	43 26
	eP'P'	48 06
Sept. 12		
EUR	eP	10 09 20
	e	10 25
Sept. 12		
COL	iP	11 33 07
	ipP	34 19
	i	35 18
EUR	iP	11 37 42
HH	eP	11 36 53
	i	40 19
Sept. 12		
EUR	iP	11 44 03
Sept. 12		
COL	iP	13 07 11
Sept. 12		
COL	iP	13 41 28
Sept. 12		
EUR	eP	17 26 49
HH	e(P)	17 27 05
SJ	eP	17 19 39
	e(S)	20 40
	iL	20 46
Sept. 12		
EUR	eP	18 44 18
Sept. 12		
EUR	iP	19 49 18
	i	49 34
TUC	eP	19 49 14
	i	49 30
Sept. 12		
BUT	eP	20 05 03
Sept. 12		
BUT	eP	21 48 13
Sept. 12		
EUR	eP	23 12 54
	i	13 02
HH	eP	23 12 47
Sept. 13		
COL	eP	02 04 03
Sept. 13		
BC	iP	02 09 03
	i	[illegible]
	i	[illegible]

Date and Station		Phase (GCT)
		h m s
BOZ	iP	02 08 35
	ipP	08 47
	iPP	10 01
	iPPP	11 10
	eS	14 42
	e	14 52
	i	15 15
	eL	17 54
	e(ScS)	19 09
BUT	eP	02 08 27
	ipP	08 40
	iPP	10 32
	iPcP	10 45
	iPPP	11 09
	i(ScP)	14 12
	eS	14 34
	iS	14 36
	i	14 54
	eL	18 12
	iScS	18 49
COL	iP	02 05 11
	ipP	05 28
	e	07 18
	iS	08 57
	eL	09 43
COLU	iP	02 11 36
	ipP	11 47
	iPcP	12 16
	eS	20 20
	iS	20 24
	i	20 44
	eL	32 42
EUR	iP	02 08 40
	i(ScP)	14 16
	e(P'P')	38 03
HONO	eP	02 07 23
	ipP	07 37
	isP	07 48
	e	08 36
	ePP	09 09
	eS	12 30
	eL	13 57
	iScS	17 56
T_L = 11 sec. $A_{max.}$=1.5mm.		
HH	iP	02 08 10
	ipP	08 30
	i(PP)	09 22
	iPcP	10 20
	iPPP	10 37
	eS	14 02
	i	14 24
	eScS	18 17
	e(P'P')	40 17
RC	eP	02 09 14
	e	10 18
	ePP	11 35
	eS	15 59
	e	16 23
	eSS	19 25
	eL	29 47

Date and Station		Phase (GCT)
		h m s
SIC	iP	02 08 53
	ipP	09 06
	i	09 12
	iPP	10 59
	eS	15 26
	i	15 46
	eL	18 50
	iScS	19 12
SJ	iP	02 13 31
	ipP	13 49
TUC	iP	02 09 41
	i(pP)	10 00
	i	10 26
	iPcP	10 56
	e(ScP)	14 25
	eS	17 04
	eL	24 41
WASH	eP	02 11 24
	ipP	11 36
	ePcP	12 18
Sept. 13		
COL	eP	02 39 31
	e	39 53
Sept. 13		
COL	iP	05 07 22
EUR	iP	05 11 08
Sept. 13		
BC	iP	07 42 04
COL	eP	07 42 32
EUR	iP	07 42 09
HH	e(P)	07 42 37
SIC	eP	07 42 24
TUC	iP	07 42 08
Sept. 13		
BUT	eP	10 56 45
Sept. 13		
BUT	eP	13 04 33
Sept. 13		
COL	e(P)	14 41 24
Sept. 13		
BC	eP	17 19 13
EUR	eP	17 19 50
HH	e(P)	17 20 27
	e	23 06
SJ	eP	17 19 38
Sept. 13		
COL	eP	17 49 37

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Date and Station		Phase	(GCT) h m s
SJ		e(P)	17 57 17
Sept. 13			
HH		e(P)	21 04 16
Sept. 13			
COL		iP	23 29 43
EUR		e(P)	23 35 58
Sept. 14			
BUT		eP	07 11 44
COL		iP	07 11 43
Sept. 14			
COL		eP	08 25 51
Sept. 14			
SLC		eP	09 21 49
Sept. 14			
COL		iP	11 39 55
EUR		iP	11 40 49
Sept. 14			
BOZ		eP	17 41 12
BUT		eP	17 41 16
COL		iP	17 37 56
EUR		iP	17 41 53
		i	42 01
HH		eP	17 40 48
		i	40 56
Sept. 14			
EUR		eP	19 02 09
		e	02 42
HH		e(P)	19 03 16
Sept. 14			
SJ		iP	23 09 25
Sept. 15			
BOZ		eP	00 25 05
Sept. 15			
HH		iP	01 45 23
Sept. 15			
TUC		e(P)	05 26 41
Sept. 15			
COL		iP	07 58 40
Sept. 15			
EUR		iP	10 13 10
Sept. 15			
EUR		eP	11 23 12
		e	24 14
Sept. 15			
BC		eP'	12 49 02
BC		i	12 49 36
		iPP	49 44
BOZ		e(P)	12 45 07
		eP	49 08
		ePKKP	13 00 06
BUT		eP	12 45 10
		e(PP)	49 17
		eSKS	56 02
		e(PS)	59 24
		ePKKP	13 00 21
		eSS	05 14
		eSSS	09 20
		eL	16 20
COL		eP	12 43 24
		i	43 29
		i(PKKP)	13 01 50
COLU		iP'	12 49 55
		i	50 20
		i(PKS)	53 30
EUR		iP	12 44 56
		ePP	49 24
		iPKKP	13 00 14
HONO		eP	12 41 53
		iP	41 54
		i	42 05
		e(S)	51 14
		eScS	52 18
		eSS	56 20
		eL	13 00 48
T_L=20 sec. $A_{max.}$=1.5mm.			
HH		eP	12 44 56
		e(PP)	49 02
		iPKKP	13 00 14
SLC		e(P)	12 45 09
		ePP	49 50
		ePS	59 11
		e	59 27
		eSS	13 05 13
		eSSS	09 57
		eL	17 33
SJ		eP	12 50 27
		i	50 55
		e(PP)	54 22
TUC		eP'	12 49 11
		iPP	50 06
		i	50 18
		iPS	59 41
		eL	13 17 19
WASH		e(P)	12 49 55
		i	50 11
		ePP	52 21
		e(SKKS)	13 00 27
		eL	48 11
Sept. 15			
BOZ		eP	18 24 06
COL		iP	18 24 03
EUR		iP	18 23 33
HH		eP	18 24 03
Sept. 16			
EUR		iP	04 26 32
HH		iP	04 26 01
Sept. 16			
BC		iP	04 41 21
		e	42 14
BOZ		eP	04 41 57
BUT		eP	04 41 54
COL		iP	04 41 45
		ipP	43 11
EUR		iP	04 41 25
HH		iP	04 41 54
TUC		iP	04 41 28
Sept. 16			
BC		iP	04 55 28
COL		e(P)	04 56 06
EUR		iP	04 55 35
		e	05 02 41
HH		e(P')	04 59 24
TUC		iP	04 55 29
		eL	05 29 54
Sept. 16			
COL		iP	07 13 17
		e	14 46
		e	15 20
EUR		iP	07 13 54
HH		e(P)	07 14 07
Sept. 16			
BC		iP	07 44 56
		e	45 05
BOZ		eP	07 44 27
COL		eP	07 41 04
EUR		iP	07 44 32
		e	44 51
		i	46 40
HH		iP	07 44 01
		i	46 29
TUC		iP	07 45 35
Sept. 16			
COL		eP	10 13 40
EUR		eP	10 13 11
TUC		iP	10 13 09
Sept. 16			
SLC		eP	12 17 58
Sept. 16			
EUR		eP	16 13 42
Sept. 16			
COL		eP	18 44 16
Sept. 16			
COL		eP	20 57 53
		e	59 46
Sept. 16			
COL		eP	22 53 25
Sept. 16			
EUR		eP	23 37 57
HH		i(P)	23 33 57
Sept. 17			
BC		iP	02 04 57
BUT		eP	02 05 52
		ePP	08 16
COL		iP	02 09 13
		ipP	09 49
COLU		eP	02 03 43
		i	04 04
EUR		iP	02 05 24
HH		eP	02 06 11
		e	08 21
SLC		eP	02 05 13
		e	08 03
TUC		eP	02 04 12
		e	08 22
		eL	14 40
Sept. 17			
SJ		eP	07 51 28
Sept. 17			
BUT		eP	11 10 06
Sept. 17			
BC		eP	12 08 32
		e	11 12
		i	11 22
COL		eP	12 08 24
		e	08 33
		e	09 34
		e	10 00
		i	11 04
EUR		eP	12 08 35
		e	11 16

Date and Station		Phase (GCT)
		h m s
TUC	e	12 11 28
	eL,	44 28
Sept. 17		
COL	iP	12 50 14
Sept. 17		
EUR	eP	14 56 06
Sept. 17		
COL	iP	15 02 36
EUR	iP	15 02 48
TUC	eP	15 02 47
Sept. 17		
EUR	iP	18 17 08
HH	eP	18 16 38
Sept. 17		
COL	eP	18 21 54
Sept. 17		
COL	eP	18 29 30
EUR	iP	18 29 43
Sept. 17		
BC	eP	20 09 48
COL	eP	20 10 32
EUR	iP	20 09 54
TUC	iP	20 09 49
	e	10 27
	eL	48 08
Sept. 17		
COL	iP	23 46 52
EUR	iP	23 47 04
Sept. 17		
HH	e(P)	23 54 59
Sept. 18		
COL	eP	00 56 02
Sept. 18		
COL	eP	01 28 42
EUR	eP	01 28 52
Sept. 18		
COL	e(P)	04 17 17
	e	18 13
Sept. 18		
HH	e(P)	04 29 34
Sept. 18		
COL	e(P)	04 50 32
Sept. 18		
BUT	eP	06 53 27

Date and Station		Phase (GCT)
		h m s
COL	iP	06 51 16
EUR	eP	06 53 28
HH	iP	06 53 33
SLC	eP	06 53 40
Sept. 18		
COL	eP	07 41 02
	e	41 16
EUR	eP	07 41 55
	i	42 10
Sept. 18		
EUR	iP	09 12 31
	e	13 00
HH	e(P)	09 12 57
TUC	iP	09 12 26
	i	12 30
Sept. 18		
COL	eP	09 22 38
EUR	e(P)	09 25 18
HH	e(P)	09 25 28
Sept. 18		
BC	iP	11 44 10
	i	44 14
BUT	eP	11 43 40
	epP	45 49
COL	iP	11 40 55
	i	41 21
	e	41 46
	e	42 21
	epP	42 46
	e	47 39
EUR	iP	11 43 55
	epP	46 06
HH	iP	11 43 27
	epP	45 35
TUC	e(P)	11 44 34
Sept. 18		
COL	e(P)	14 14 52
	i	15 39
Sept. 18		
HH	i(P)	17 41 11
Sept. 18		
HH	e(P)	17 45 32
Sept. 18		
SLC	eP	19 05 55
Sept. 18		
EUR	e(P)	19 22 26

Date and Station		Phase (GCT)
		h m s
Sept. 18		
SLC	eP	19 47 01
Sept. 18		
BUT	eP	19 59 42
Sept. 19		
BC	eP	04 24 25
	e	25 21
BUT	eP	04 24 03
COL	iP	04 21 36
EUR	iP	04 24 11
HH	iP	04 23 51
Sept. 19		
COL	eP	05 08 34
Sept. 19		
COL	eP	05 33 39
Sept. 19		
HH	eP	08 18 10
	e	18 30
Sept. 19		
HH	e(P)	13 33 44
Sept. 19		
COL	iP	15 07 28
Sept. 19		
COL	eP	15 18 38
	epP	19 03
Sept. 19		
COL	eP	17 42 34
Sept. 19		
COL	iP	18 44 56
Sept. 19		
COL	eP	20 22 01
	iP	22 07
EUR	iP	20 25 44
	e	25 56
Sept. 19		
BC	iP	20 31 25
	e	31 42
BOZ	iP	20 30 47
COL	iP	20 27 25
EUR	iP	20 30 07
	i	31 01
	i	31 20
HH	eP	20 30 29
	e	33 27
Sept. 19		
COL	e(P)	22 41 57

Date and Station		Phase (GCT)
		h m s
EUR	e(P)	22 42 48
	i	42 57
HH	e(P)	22 44 33
Sept. 20		
COL	eP	00 10 27
HH	e(P)	00 11 41
	e	12 02
Sept. 20		
EUR	e(P)	02 05 07
HH	eP	02 05 51
Sept. 20		
EUR	e(P)	05 59 33
Sept. 20		
HH	e(P)	11 26 01
Sept. 20		
BC	iP	13 33 21
	i	33 24
	i(PP)	37 37
BOZ	eP	13 34 02
BUT	iP	13 33 46
	i	34 01
	e(PP)	37 50
	eS	44 41
	iPS	45 41
	e	47 06
	eSS	52 10
	eSSS	55 48
	eL	14 01 21
CHI	e	13 43 32
	e	49 37
	eS	55 08
	e	14 01 55
	eL	09 30
COL	iP	13 34 06
	i	34 25
	i	34 38
	e	35 10
EUR	iP	13 33 28
	i	33 53
	ePKKP	50 53
HONO	eP	13 30 02
	ePP	32 10
	eS	37 59
	e(ScS)	40 08
	i	41 03
	eL	44 23
T_L = 18 sec. $A_{max.}$ = 2mm.		
HH	eP	13 33 59
	ePP	37 56
	e	50 35
	ePKKP	51 00

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Date and Station		Phase	(GCT) h m s
PHIL		eSKS	13 46 05
		e	48 39
		e(SS)	57 18
		eL	14 13 33
SIC		eP	13 33 43
		ePP	37 46
		eSKS	44 26
		eS	45 08
		ePS	46 28
		eSS	51 49
		eL	14 01 16
TUC		iP	13 33 23
		e	37 44
		i	43 10
		e	44 08
		iS	45 29
		i	51 16
		eL	58 10
UK		eS	13 43 44
		eL	56 35
Sept. 20			
EUR		e(P)	13 46 48
Sept. 20			
BOZ		eP	13 51 03
Sept. 20			
COL		eP	13 59 23
EUR		eP	14 02 50
		e	03 08
Sept. 20			
HH		e(P)	17 28 51
Sept. 20			
COL		iP	17 45 50
		epP	46 28
Sept. 20			
BOZ		eP	18 05 48
EUR		eP	18 05 47
Sept. 20			
BC		eP	18 25 37
EUR		iP	18 25 42
Sept. 20			
COL		eP	20 33 11
		e	33 19
Sept. 20			
SJ		i(P)	21 45 40
Sept. 20			
HH		e(P)	22 39 32
Sept. 20			
BC		iP	22 58 44
		e	23 01 49
EUR		iP	22 58 50
		e	23 01 00
		i	01 56
SIC		eP	22 55 10
Sept. 20			
COL		iP	23 38 05
EUR		i(P)	23 34 37
HH		e(P)	23 33 56
Sept. 21			
BC		e(P)	01 23 21
BOZ		e(P)	01 23 15
EUR		e(P)	01 23 13
		i	23 21
		i	23 36
HH		e(P)	01 23 14
SIC		eP	01 23 04
Sept. 21			
HH		eP	04 45 16
Sept. 21			
BC		iP	05 12 30
COL		iP	05 09 04
EUR		iP	05 12 09
HH		iP	05 11 10
TUC		e(P)	05 12 51
Sept. 21			
COL		iP	05 23 33
Sept. 21			
BC		iP	06 52 42
		i	52 54
BOZ		e(P)	06 56 39
COL		iP	06 52 33
EUR		iP	06 52 44
		i	52 55
		e	56 29
HH		eP	06 53 03
SIC		eP	06 53 00
		e	56 43
		eL	07 23 26
SJ		e(P')	06 58 47
TUC		iP	06 52 52
		e	56 44
		eL	07 21 54
Sept. 21			
HH		e(P)	07 10 06
Sept. 21			
SJ		e(P)	07 22 06
Sept. 21			
BC		iP	07 38 53
		i	39 16
		eL	40 23
BOZ		eP	07 39 59
		eL	42 02
BUT		e(P)	07 41 33
		i(P)	41 35
EUR		iP	07 38 15
		iL	39 59
HH		eP	07 39 44
		eL	42 15
SIC		eP	07 39 21
		eS	40 27
		eL	40 39
TUC		e(P)	07 37 41
Sept. 21			
BC		eP	07 52 23
BOZ		eP	07 54 33
		eS	58 20
		eL	08 00 24
BUT		eP	07 54 53
		iP	54 55
		eS	58 25
		eL	59 19
COL		iP	07 58 19
COLU		e	07 55 59
		iL	08 04 55
EUR		iP	07 53 11
		eL	56 01
HH		eP	07 54 57
		i	58 59
RC		eP	07 54 31
		e	56 05
		e(S)	57 57
		eL	59 22
SIC		eP	07 53 28
		e(S)	56 48
		eL	57 19
SJ		iP	07 58 08
TUC		iP	07 51 29
Sept. 21			
BC		eP	09 20 46
		i	20 49
BOZ		eP	09 20 49
		eL	24 40
BUT		eP	09 20 35
		i	20 56
		e	23 31
		eS	23 51
		eL	24 25
COL		eP	09 23 32
EUR		iP	09 20 09
HH		eP	09 20 32
		e	23 25
SIC		eP	09 20 43
TUC		eP	09 21 52
UK		e	09 19 51
		eL	20 17
Sept. 21			
COL		eP	10 20 25
HH		e(P)	10 22 37
Sept. 21			
EUR		iP	11 11 05
HH		iP	11 09 58
Sept. 21			
COL		e	11 49 47
		epP	50 48
Sept. 21			
BC		iP	13 41 38
COL		eP	13 42 20
		e	42 42
EUR		iP	13 41 42
SIC		e(P)	13 42 00
TUC		iP	13 41 38
Sept. 21			
EUR		iP	16 51 13
HH		iP	16 51 01
Sept. 21			
HH		e(P)	16 59 28
Sept. 21			
EUR		e(P)	21 32 33
Sept. 21			
EUR		eP	22 41 00
Sept. 21			
COL		eP	22 55 31
Sept. 22			
COL		eP	00 18 46

Date and Station		Phase (GCT)
		h m s
Sept. 22		
COL	eP	01 18 25
Sept. 22		
BC	eP	03 38 54
	e(PP)	42 48
BOZ	eP	03 38 33
	e	39 32
	eSKS	49 18
	ePS	51 12
	eSS	56 38
	eSSS	04 00 18
	eL	08 08
BUT	e(S)	03 49 42
	eL	04 21 44
CHI	eSKS	03 50 12
	ePPS	53 39
	eL	04 17 47
COL	eP	03 36 07
	iPcP	36 35
	ePP	38 36
	ePPP	40 18
	eS	45 09
	e	45 41
	e(SS)	50 17
	eL	54 05
COLU	e(P)	03 43 53
	ePP	45 21
	ePS	54 52
	eL	04 21 04
EUR	iP	03 38 37
	i	39 26
	ePKKP	55 55
HONO	e(P)	03 36 34
	i	36 42
	eS	45 35
	i	46 15
	eSS	50 41
	eL	54 55
T_L = 20 sec. $A_{max.}$=2.5mm		
HH	iP	03 38 16
	e	49 24
PHIL	ePS	03 54 14
	eSS	04 00 17
	eL	11 36
SLC	e(P)	03 38 58
SJ	e(P')	03 44 38
SIT	eP	03 36 57
	i	37 01
	e(PcP)	37 29
	ePP	39 58
	e	42 15
	e	45 30
	eS	46 41
	eScS	47 28

Date and Station		Phase (GCT)
		h m s
SIT	e(SS)	03 52 36
	eL	58 04
TUC	ePP	03 43 23
	eL	04 14 28
Sept. 22		
HH	i(P)	03 50 51
Sept. 22		
HH	iP	03 55 02
Sept. 22		
HH	i(P)	04 36 27
Sept. 22		
HH	e(P)	05 35 16
SJ	iP	05 27 25
	i(S)	27 45
	iL	27 55
Sept. 22		
COL	iP	05 47 00
	i	47 15
EUR	eP	05 48 12
	e	49 01
HH	e(P)	05 48 35
SJ	e(PP)	05 54 08
Sept. 22		
HH	e(P)	06 43 57
Sept. 22		
COL	iP	08 08 14
Sept. 22		
BC	iP	09 16 52
	e	18 01
Sept. 22		
TUC	e(P)	11 41 19
Sept. 22		
HH	e(P)	12 57 30
Sept. 22		
HH	e(P)	16 35 26
Sept. 22		
COL	eP	18 14 47
Sept. 22		
COL	eP	22 06 06
EUR	e(P)	22 02 15
Sept. 23		
COL	eP	00 30 09
Sept. 23		
HH	e(P)	04 15 34
Sept. 23		
HH	e(P)	07 41 48

Date and Station		Phase (GCT)
		h m s
Sept. 23		
COL	iP	07 54 24
Sept. 23		
COL	eP	09 06 27
	epP	06 46
Sept. 23		
COL	eP	10 14 47
Sept. 23		
EUR	e(P)	10 22 44
Sept. 23		
BOZ	eP	10 55 53
EUR	eP	10 55 45
	i	55 52
HH	eP	10 55 52
	iP	55 54
Sept. 23		
BC	eP	12 36 48
	e	36 57
COL	eP	12 36 40
EUR	iP	12 36 50
	i	40 35
HH	iP	12 37 26
TUC	iP	12 36 57
Sept. 23		
COL	eP	12 40 22
Sept. 23		
BC	eP	15 25 03
	i	25 22
	i	25 46
BOZ	eP	15 20 26
	e	24 27
	e(S)	31 56
	eSS	39 06
	e	39 30
	eSSS	43 52
	eL	50 39
CHI	ePPS	15 36 11
	eSSS	45 10
	eL	55 45
COL	iP	15 17 56C
	e	19 36
	ePP	20 32
	ePPP	22 31
	eS	27 15
	iS	27 27
	iScS	28 08
	e	28 28
	i	28 40
	eSS	32 14
	eL	35 34
COLU	eP	15 25 17

Date and Station		Phase (GCT)
		h m s
COLU	i	15 26 32
	eL	50 56
EUR	eP	15 20 30C
	e	36 19
HONO	eP	15 19 20
	eSKS	29 38
	e	30 12
	eS	31 24
	eSS	35 49
	eL	45 26
T_L = 18 sec. $A_{max.}$ = 1.5mm		
HH	eP	15 19 59C
	i	24 06
	e	36 30
PHIL	e	15 35 22
	e	41 38
	e	45 51
	e	46 19
	e	52 44
	eL	57 28
SLC	eP	15 23 55
	e	40 19
	e	45 23
	eL	55 33
SJ	e(P)	15 29 24
SIT	eP	16 18 48
	ePP	22 02
	ePPP	24 03
	e	24 49
	eS	29 12
	ePS	30 23
	ePPS	30 42
	eSS	34 58
	eSSS	39 20
	eL	44 16
TUC	iP	15 25 52D
	i	30 08
	e	34 40
	i	35 36
	i	35 38
	eL	52 08
WASH	e	15 50 18
	eL	16 08 02
Sept. 23		
COL	eP	16 31 18
EUR	iP	16 28 19
Sept. 23		
COL	eP	17 39 09
EUR	iP	17 38 06
	i	39 20
HH	eP	17 38 52

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Date and Station		Phase (GCT) h m s
Sept. 23		
COL	iP	17 41 53
	i	42 29
Sept. 23		
COL	iP	18 03 44
Sept. 23		
BC	iP	19 30 28
	e	31 28
COL	iP	19 30 23
	i	31 16
EUR	eP	19 30 32
	e	34 08
HH	iP	19 30 08
	e	30 21
SLC	eP	19 30 46
SJ	iP'	19 36 30
TUC	iP	19 30 36
	e	32 26
	ePP	34 16
	e	36 36
Sept. 23		
EUR	i(P)	21 03 06
Sept. 23		
HH	eP	21 42 49
Sept. 23		
EUR	eP	23 54 51
Sept. 24		
HH	eP	00 34 49
Sept. 24		
HH	e(P)	02 02 27
Sept. 24		
BC	iP	02 13 47
COL	eP	02 14 34
	e(PP)	18 44
	eS	26 06
	e(PPS)	28 35
	eL	44 20
EUR	iP	02 13 54
	e	14 21
	i	16 24
SLC	eP	02 14 09
TUC	iP	02 13 49
	e	16 17
	ePS	25 44
	eL	43 08
Sept. 24		
COL	eP	02 17 22

Date and Station		Phase (GCT) h m s
Sept. 24		
EUR	e(P)	02 31 57
	i	33 21
Sept. 24		
TUC	e(P)	03 33 16
Sept. 24		
HH	eP	03 56 20
	e	56 58
Sept. 24		
COL	eP	04 42 19
Sept. 24		
EUR	iP	05 08 06
Sept. 24		
COL	eP	09 14 05
	epP	14 47
Sept. 24		
BC	e(P)	10 35 26
	e	39 15
COL	iP	10 32 44
	i	35 17
	eS	41 58
	eScS	42 37
	eSS	46 28
	eL	50 22
BOZ	e	10 39 10
EUR	eP	10 35 11
	e	35 26
	i	38 10
	ePP	39 13
HH	eP	10 34 52
	iP	34 53
SLC	eP'	10 39 26
TUC	eP'	10 40 09
	e	42 32
	i	52 33
	eL	11 16 28
Sept. 24		
COL	iP	10 46 05
Sept. 24		
COL	eP	11 30 07
	i	30 23
HH	eP	11 29 18
Sept. 24		
BC	iP	17 02 13
	e	02 40
	e	03 13
COL	eP	17 04 52
	e	05 22
COLU	iP	17 00 34
	i	01 13

Date and Station		Phase (GCT) h m s
COLU	eS	17 08 26
	i	09 12
EUR	iP	17 02 31
	e	03 10
HH	iP	17 02 59
SLC	eP	17 02 24
	e	03 05
SJ	eP	16 58 26
	e	58 51
	ePP	17 00 10
TUC	iP	17 01 42
WASH	iP	17 01 43
Sept. 24		
COL	eP	20 04 04
EUR	eP	20 05 15
	e	05 49
Sept. 24		
SLC	eP	22 29 47
Sept. 25		
BH	eP	01 23 47
	iS	24 14
Sept. 25		
COL	eP	07 47 01
Sept. 25		
COL	iP	08 47 15
HH	eP	08 48 40
Sept. 25		
BOZ	eP	08 57 44
EUR	iP	08 57 42
HH	iP	08 57 51
	i	57 59
Sept. 25		
COL	e(P)	09 09 44
	eL	13 44
EUR	eP	09 14 13
	i	14 26
HH	e	09 12 49
	i	15 33
Sept. 25		
COL	iP	11 47 36
EUR	iP	11 47 02
HH	eP	11 47 38
TUC	eP	11 47 01
	e	47 13

Date and Station		Phase (GCT) h m s
Sept. 25		
COL	eP	14 11 47
Sept. 25		
COL	eP	14 13 55
	e	14 55
Sept. 25		
COL	iP	14 43 07
Sept. 25		
EUR	iP	15 39 30
HH	eP	15 37 06
	i	37 12
Sept. 25		
EUR	eP	17 20 46
Sept. 25		
COL	eP	18 33 32
Sept. 25		
BC	iP	18 53 39
	i	54 13
	e	54 44
BUT	e(P)	18 54 36
COL	iP	18 58 06
COLU	eP	18 52 55
	i	53 16
	i(PcP)	56 44
EUR	iP	18 54 06
	i	54 39
HH	iP	18 54 59
	i	55 34
	e	56 05
SLC	iP	18 53 57
TUC	iP	18 52 51
	i	52 54
	e	59 40
Sept. 25		
BC	e	19 16 53
	ePPS	29 00
	i	29 13
BOZ	e	19 13 54
	ePP	18 02
BUT	eP	19 13 48
	iS	24 07
	i	24 39
	iPS	27 06
	i	27 36
	e	32 07
	eL	43 24
COL	iP	19 11 41
	ipP	12 02
	i	12 27
	ePP	15 06

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Date and Station		Phase (GCT)
		h m s
COL	ePPP	19 17 03
	eS	21 51
	e	22 12
	esS	22 48
	e	26 20
	eSS	27 13
	ePKKP	30 09
	eL	34 10
COLU	eP'	19 18 35
	i	18 56
	ePP	21 16
	ipPP	21 55
	iPS	31 20
EUR	eP	19 13 36
	ipP	14 06
HONO	eP	19 10 57
	ipP	11 22
	isP	11 37
	eS	20 30
	eL	30 55
HH	eP	19 13 25
	epP	13 46
RC	eP'	19 18 54
	ePP	24 34
SLC	e(P)	19 14 11
	e(P')	17 05
	e(SKS)	24 23
	e	25 13
	ePPS	29 11
	eL	50 29
SJ	eP'	19 19 16
	i	19 28
SIT	eP	19 12 31
	ePP	16 03
	iSKS	22 38
	iS	23 00
	eSS	29 16
	eL	35 38
TUC	eP'	19 18 07
	ePP	19 04
	iPS	28 14
	i	28 44
	eL	50 38
WASH	eP'	19 18 30
	e	19 05
	i(PP)	21 48
	eL	20 02 16
Sept. 25		
BOZ	eP	19 29 17
BUT	eP	19 29 22
EUR	i	19 29 06
	i	29 20
HH	eP	19 29 13
	e	29 33

Date and Station		Phase (GCT)
		h m s
SLC	eP	19 27 37
	e	29 11
TUC	iP	19 28 51
Sept. 25		
COL	eP	19 41 30
Sept. 25		
BOZ	e	21 14 24
Sept. 25		
BOZ	eP	22 16 11
BUT	eP	22 16 02
EUR	iP	22 12 23
HH	eP	22 14 47
	e	16 53
SLC	eP	22 13 18
	eS	14 13
	eL	14 28
TUC	eP	22 14 56
	i	16 59
Sept. 26		
COL	iP	07 49 48
Sept. 26		
COL	eP	07 55 24
EUR	iP	07 50 39
Sept. 26		
BH	iP	08 31 41
BC	eP	08 34 08C
	iP	34 09D
	ipP	34 42
	iPcP	37 18
	iS	38 46
	iPcS	40 39
	i	42 39
	i(ScS)	44 33
	eL	46 54
BOZ	iP	08 34 51D
	ipP	35 34
	isP	35 57
	i	36 24
	iPcP	37 11
	iS	40 02
	i(ScP)	40 54
	e	40 57
	isS	41 21
	eL	42 41
	iScS	44 45
BUT	eP	08 34 59N,E
	ipP	35 42
	iPP	36 30
	iPcP	37 29
	iS	40 15
	isS	41 28
	i	42 09

Date and Station		Phase (GCT)
		h m s
BUT	i(SS)	08 43 44
	i	44 34
	iL	45 09
CHI	iP	08 33 44
	ipP	34 25
	iPP	34 36
	e	37 35
	iL	39 13
COL	iP	08 38 24D
	ePcP	39 03
	epP	39 12
	esP	39 35
	epPP	41 41
	ePPP	42 10
	eSPP	43 12
	iS	46 42
	iScS	47 46
	e	48 14
	i(PPS)	49 26
	eSS	50 38
	esSS	52 17
	eL	54 39
COLU	iP	08 32 55C
	e	33 56
	e	34 30
	iS	36 35
	iL	42 32
EUR	iP	08 34 33C
HONO	iP	08 38 33D
	i	38 48
	ipP	39 20
	isP	39 42
	e	41 33
	eS	46 26
	iS	46 52
	iScS	47 44
	isS	48 09
	i	48 36
	e(SS)	50 13
	e	51 46
	eL	53 16
T_L=17 sec. $A_{max.}$=1.5mm.		
HH	iP	08 35 20C
	ipP	36 03
	i	36 15
	isP	36 29
	ePcP	37 35
	i	38 12
	iScP	40 49
	iS	41 09
	isS	42 15
	iScS	45 14
	e	47 02
	eL	51 47
	eP'P'	09 05 44
	i	05 46
	i	09 45
LIN	eP	08 33 38
	epP	34 13

Date and Station		Phase (GCT)
		h m s
LIN	esP	08 34 43
	eS	38 05
	e	38 35
	isS	38 52
	iScP	39 55
	eL	40 24
	iScS	44 20
PHIL	iP	08 34 03S,E
	ipP	34 45
	e	35 52
	iS	38 37
	esS	39 52
	eL	41 54
RC	eP	08 34 16
	ipP	35 01
	i	36 28
	iS	38 56
	isS	40 14
	iScP	40 37
	iL	42 11
	i	43 11
	iScS	44 35
SLC	iP	08 34 22D
	i	34 37
	ipP	35 04
	isP	35 27
	i	37 21
	i	38 16
	iS	39 11
	i	39 31
	isS	40 27
	i	40 44
	i	40 57
	iL	41 55
	iScS	44 41
SJ	iP	08 33 34C
	ipP	34 10
	i	35 12
	i	36 22
	esS	39 15
	i	40 25
	i	40 40
	eL	43 52
	e	44 16
SIT	eP	08 37 20
	iP	37 22
	ipP	38 03
	iPcP	38 30
	ePP	39 21
	ipPP	40 07
	iPPP	40 34
	e	42 55
	iS	44 32
	isS	45 46
	iScS	46 53
	iSS	48 19
	esSS	49 32
	eL	49 59
TUC	iP	08 33 23D
	i	33 58
	i	34 03

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Date and Station		Phase	(GCT) h m s
TUC	e		08 36 17
	iS		37 27
	iL		38 32
WASH	iP		08 33 52C
Sept. 26			
BC	e(P)		09 06 22
	i		06 25
	e		08 15
	e		10 19
	e		17 03
BOZ	eP		09 05 59
EUR	iP		09 06 10
SLC	iP		09 06 18
	e		10 10
TUC	eP		09 06 36
	i		06 46
Sept. 26			
BOZ	eP		09 16 45
EUR	iP		09 16 52
SLC	eP		09 16 57
TUC	eP		09 16 27
Sept. 26			
HONO	eP		12 16 40
	iS		17 14
	iL		17 18
Sept. 26			
EUR	e(P)		12 23 30
	i		23 34
Sept. 26			
HH	iP		21 22 15
Sept. 27			
BC	eP		03 59 21
	i		59 32
	e		04 00 33
COL	iP		04 01 15
EUR	iP		03 58 47
HH	e(P)		04 00 09
	e		03 35
SJ	iP		03 53 36
Sept. 27			
TUC	e(P)		07 07 47
Sept. 27			
BC	eP		07 13 40
	i		13 42
EUR	eP		07 13 45
	i		14 01
HH	iP		07 09 06
	e		09 32
TUC	eP		07 13 40
Sept. 27			
BC	e(P)		11 43 35
	e		44 00
COL	e(P)		11 41 02
EUR	i(P)		11 44 18
HH	iP		11 44 48
TUC	i(P)		11 43 29
Sept. 27			
COL	eP		11 45 27
Sept. 27			
BC	e(P)		11 53 18
	e		53 30
	i		53 35
COL	eP		11 51 51
EUR	iP		11 53 40
HH	e(P)		11 54 43
SLC	e(P)		11 53 52
TUC	eP		11 52 38
	e		52 44
Sept. 27			
HH	e(P)		12 11 59
Sept. 27			
EUR	i(P)		13 10 07
Sept. 27			
EUR	iP		17 54 53
Sept. 27			
BC	e(P)		20 50 07
EUR	iP		20 50 13
	i		50 29
Sept. 27			
EUR	iP		21 34 34
Sept. 27			
COL	eP		23 09 29
Sept. 28			
EUR	iP		00 44 29
HH	eP		00 44 57
Sept. 28			
COL	iP		01 58 14
	i		58 19
	i		58 46
EUR	e(P)		02 00 52
	e		04 44
	i		05 17
HH	eP		02 00 18
	i		00 24
	i		00 32
Sept. 28			
COL	eP		04 34 22
HH	iP		04 36 31
	e		37 20
Sept. 28			
BC	iP		05 35 04
Sept. 28			
COL	eP		06 39 16
	epP		40 05
Sept. 28			
COL	eP		07 02 54
Sept. 28			
COL	eP		07 45 49
Sept. 28			
COL	eP		07 56 28
EUR	iP		07 56 02
HH	eP		07 54 53
TUC	eP		07 57 31
Sept. 28			
HH	eP		08 12 55
Sept. 28			
COL	eP'		08 36 10
	ePP		37 30
Sept. 28			
EUR	iP		09 51 10
HH	iP		09 50 47
Sept. 28			
BC	e(P)		09 53 40
	i		54 20
	i		54 25
BOZ	eP		09 55 26
COL	iP		09 48 17
EUR	iP		09 53 19
HH	eP		09 55 13
	e		58 30
SLC	e(P)		09 54 15
	eP		54 40
	eS		55 40
	eL		55 47
Sept. 28			
COL	iP		11 32 06
	epP		32 40
Sept. 28			
COL	iP		11 51 52
	i		51 54
	i		52 22
HH	iP		11 54 50
Sept. 28			
COL	eP		15 06 16
	epP		06 36
Sept. 28			
EUR	eP		17 40 32
Sept. 28			
BH	e(P)		18 13 57
BC	iP		18 15 15
BOZ	iP		18 16 15
	e		18 58
	eS		21 38
	eL		25 30
BUT	iP		18 16 22
	i		17 53
	iS		21 47
	i		22 01
	eL		24 25
	i		25 59
CHI	eP		18 15 34
	eS		20 20
	eL		23 18
COL	iP		18 19 48
	iPcP		20 33
COLU	iP		18 14 55
	i		19 21
	i		20 46
	eL		23 12
EUR	e(P)		18 15 41
	i		15 46
	e		18 50
	e		22 39
	eL		24 59
HH	iP		18 16 43
	i		19 08
PHIL	e(P)		18 17 08
	eS		22 15
	eL		24 45
RC	eP		18 15 50
	ePP		16 35
	ePcP		17 41
	eS		20 43
	eL		22 07

Date and Station		Phase (GCT) h m s
SLC	iP	18 15 36
	i	18 48
	e(S)	20 43
	eL	23 11
	iSeS	25 23
SJ	iP	18 15 52
	e	18 54
TUC	iP	18 14 26
	i	15 15
	iS	18 28
	iL	20 43
WASH	iP	18 15 51
	eL	29 08
Sept. 28		
BOZ	e(P)	18 50 08
Sept. 28		
BOZ	eP	19 12 59
Sept. 28		
COL	eP	19 23 26
Sept. 28		
COL	e(P)	19 58 12
EUR	iP	20 00 16
	i	05 11
HH	eP	20 00 09
Sept. 28		
BH	eP	23 25 55
	iS	26 15
Sept. 29		
BC	e(P)	02 07 30
EUR	eP	02 07 08
Sept. 29		
HH	iP	02 56 24
Sept. 29		
COL	iP	03 21 07
Sept. 29		
BC	eP	05 41 56
	i	42 10
	i	43 04
BOZ	eP	05 43 16
BUT	eP	05 45 09
EUR	iP	05 41 21
HH	eP	05 43 15
	i	45 58
	i	46 14
SLC	eP	05 42 31
	eS	43 28
	eL	43 44

Date and Station		Phase (GCT) h m s
TUC	e(P)	05 43 06
	e	43 16
	i	43 43
	e(S)	44 42
	eL	45 38
Sept. 29		
TUC	eP	07 50 03
Sept. 29		
BC	eP	08 48 34
COL	iP	08 44 26
	e	45 09
	e	46 20
EUR	iP	08 48 13
	e	48 33
HH	eP	08 47 43
SLC	eP	08 48 27
TUC	e(P)	08 49 07
Sept. 29		
SLC	e(P)	09 01 55
Sept. 29		
TUC	eP	11 26 07
Sept. 29		
BC	eP	11 39 05
BOZ	e(P)	11 38.25
COL	eP	11 35 06
EUR	e(P)	11 38 33
	e	38 38
HH	eP	11 38 03
	e	38 25
TUC	eP	11 39 33
Sept. 29		
COL	iP	13 10 01
HH	eP	13 12 05
Sept. 29		
COL	eP	15 47 19
Sept. 29		
BC	iP	20 10 10
	e	20 22
BOZ	eP	20 09 48
	ipP	10 23
BUT	eP	20 09 40
	ipP	10 15
	e	12 48
COL	iP	20 06 46
	i	06 54
	i	07 09
	e	07 46

Date and Station		Phase (GCT) h m s
COL	iS	20 13 28
	esS	14 04
	eL	17 23
EUR	iP	20 09 53
HH	iP	20 09 27
	ipP	10 02
	e	14 47
SLC	iP	20 10 02
	ipP	10 37
TUC	iP	20 10 37
	ipP	11 11
Sept. 29		
COL	iP	20 13 38
Sept. 29		
EUR	iP	20 57 25
Sept. 29		
EUR	eP	21 08 30
	iP	08 31
Sept. 29		
BOZ	eP	21 55 40
Sept. 30		
BC	eP	03 30 42
	e	31 36
BOZ	eP	03 30 04
BUT	eP	03 30 14
COL	eP	03 26 43
	iP	26 45
	i	27 08
	e	30 32
EUR	eP	03 26 14
	e	27 35
	e	30 15
HH	eP	03 29 41
	i	29 49
SLC	e(P)	03 30 25
Sept. 30		
COL	iP	03 35 59
Sept. 30		
COL	iP	03 53 51
Sept. 30		
SLC	eP	04 21 02
Sept. 30		
COL	eP	06 43 38
EUR	eP	06 47 11
HH	eP	06 46 23

Date and Station		Phase (GCT) h m s
Sept. 30		
BOZ	eP'	07 20 04
BUT	e(P)	07 15 38
COL	eP	07 13 41
	i	14 06
EUR	e(P)	07 15 44
HH	eP	07 15 37
	e	15 47
	e	16 29
Sept. 30		
COL	eP	09 07 23
Sept. 30		
COL	e(P)	10 08 54
Sept. 30		
COL	iP	10 21 38
Sept. 30		
COL	eP	13 00 05
Sept. 30		
BUT	eP	13 45 49
Sept. 30		
BC	e(P)	13 56 01
	e	56 06
BOZ	eP	13 55 36
BUT	eP	13 55 30
COL	eP	13 52 11
	iP	52 13
	e	52 30
	e	54 52
	e	56 05
	eL	58 07
EUR	iP	13 55 38
HH	iP	13 55 09
	e	14 01 08
SJ	eP	14 00 29
Sept. 30		
EUR	e(P)	15 23 03
	e	23 15
Sept. 30		
COL	eP	17 30 09
HH	eP	17 24 35
Sept. 30		
SJ	eP	17 37 26
Sept. 30		
BC	eP	19 22 49
BOZ	eP	19 22 25

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Date and Station		Phase (GCT)
		h m s
BUT	eP	19 22 22
COL	iP	19 18 59
	ePP	19 21
	iPP	19 30
	i	20 30
	iPcP	21 44
	e	22 34
	iS	22 46
	eL	23 52
	e	36 56
COLU	eP	19 25 23
	i	25 31
	iS	34 16
	eScS	35 16
EUR	iP	19 22 26
	i	22 35
	e	25 11
HH	iP	19 21 57
	eS	27 51
	eScS	32 05
PHIL	eS	19 35 05
	e	35 15
	e	36 12
	eL	46 56
SIC	eP	19 22 41
SJ	iP	19 27 20
TUC	eP	19 23 28
	i	23 35
	ePP	25 44
	eS	31 52
	eL	39 34
WASH	iP	19 25 14
	i	25 28
	eL	54 08
Sept. 30 COL	eP	19 45 23
Sept. 30 COL	iP	20 01 28
Sept. 30 COL	eP	20 13 45
EUR	eP	20 17 15
Sept. 30 BOZ	e(P)	20 30 21
COL	eP	20 26 51
EUR	eP	20 30 17
Sept. 30 COL	eP	20 31 10
Sept. 30 COL	eP	20 49 42

Date and Station		Phase (GCT)
		h m s
HH	eP	20 52 40
Sept. 30 COL	iP	21 57 28
	i	57 30
	iS	57 54
	iL	57 58
Sept. 30 COL	eP	22 34 28

Local and Minor Earthquakes

day	hour
BUT	
Sept.	
17	21.3
	23.1
19	20.5
	23.8
30	02.0
COL	
Sept.	
3	04.5
5	19.8
	22.9
7	22.4
8	12.9
	15.2
	18.0
9	19.9
10	01.1
	05.0
	14.8
11	02.5
	06.7
13	23.9
14	05.9
15	17.2
16	01.0
18	20.8
	21.7
	23.9
23	18.2
24	06.4
28	06.1
EUR	
Sept.	
1	08.9
	10.4
	21.1
2	20.1
	20.1
3	18.0
	19.0
5	01.1
6	07.1
	19.1
7	00.2
	09.7
	22.4
8	07.5
9	08.6

Local and Minor Earthquakes

day	hour
EUR	
Sept.	
10	03.0
	15.3
	22.2
11	00.1
	02.5
	23.5
12	04.2
	16.7
13	00.6
	02.3
	05.8
	15.1
	22.0
	22.2
14	07.0
17	13.6
18	19.8
20	04.8
22	09.3
	20.6
26	06.9
	15.9
	16.1
	16.7
	20.3
27	04.4
28	03.2
	05.6
29	13.6
30	21.1
SIC	
Sept.	
26	06.3
27	22.0
	22.2
28	22.4
SJ	
Sept.	
7	15.3
9	09.0
10	05.2
21	12.1
23	07.7
25	10.2
	16.6
28	01.0
	21.8
29	18.4
TUC	
Sept.	
2	02.3
	09.8
3	11.3
4	02.2
	11.7
6	07.3
	10.6
7	00.2
	07.5
	18.8
8	07.6
	07.7

Local and Minor Earthquakes

day	hour
TUC	
Sept.	
8	08.2
	08.3
	08.4
	10.8
	10.9
	11.7
	12.0
10	03.4
	04.9
12	04.7
13	05.3
	11.3
15	05.7
	06.1
19	00.5
20	07.2
	19.4
22	03.4
26	08.2
27	11.1
	13.0
28	08.4
	09.9
	12.2
	12.3
	12.5
29	02.1
	14.4
30	03.5
	07.3
	08.6
	12.4
	13.9