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SEISMOLOGICAL BULLETIN

June, 1956

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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 Co.
*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.

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 1956	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
June	h m s	° '	° '	
1	10 46 20*	64 N.	22 W.	Iceland. Felt at Reykjavik.
2	22 53 59*	52-1/2 N.	178 E.	Rat Islands, Aleutian Islands. h about 100 km.
3	05 19 23*	79-1/2 N.	118-1/2 W.	Arctic Ocean.
3	13 28 53*	27 N.	141-1/2 E.	Bonin Islands.
3	18 52 20*	31 S.	178-1/2 W.	Kermadec Islands.
4	02 04 10**			Kamchatka foreshock.
4	02 07 09*	52 N.	159-1/2 E.	Do.
4	02 19 55*	52 N.	159-1/2 E.	Near south coast of Kamchatka.
4	07 07 13**			Aleutian Islands foreshock.
4	07 09 18*	52 N.	170-1/2 W.	Fox Islands, Aleutian Islands. Mag. 6-1/4.
4	12 05 55*	31 S.	178 W.	Kermadec Islands.
5	05 29 47*	8 S.	112 E.	Java.
5	05 32 23*	10 N.	84 W.	Costa Rica.
5	05 59 41*	51 S.	112-1/2 W.	Pacific Ocean. Mag. 6-1/4 - 6-1/2.
5	16 13 55**			Fox Islands, Aleutian Islands.
5	19 01 02*	52 N.	159 E.	Kamchatka.
5	20 17 04*	52 N.	171 W.	Fox Islands, Aleutian Islands. h about 60 km.
8	01 54 35*	12 S.	167-1/2 E.	Santa Cruz Islands. h about 300 km.
8	04 07 26*	35 N.	67-1/2 E.	Afghanistan foreshock.
8	12 29 47*	6 S.	154-1/2 E.	Solomon Islands. Felt at Rabaul and Karoola.
8	13 53 09*	30 S.	70 W.	Argentina-Chile border region. Felt strongly at La Serena and Coquimbo, Chile. h about 150 km.
8	20 58 30**			Kermadec Islands.
9	02 26 57*	64 N.	148 W.	Central Alaska. Felt at College.
9	05 37 04**			New Britain. Felt at Rabaul.
9	10 08 32*	30-1/2 S.	70-1/2 W.	Central Chile. Felt at Coquimbo, Illapel, Santiago, La Serena, and Valparaiso, Chile and San Juan, Argentina. h about 150 km. Mag. 6-3/4.
9	23 13 51*	35-1/2 N.	67-1/2 E.	Afghanistan. Many killed and extensive property damage. Mag. 7-1/4 - 7-1/2.
9	23 53 41*	35 N.	68 E.	Afghanistan aftershock.
10	01 01 35*	35 N.	68 E.	Do.
10	03 33 05**			Do.
10	04 22 08*	1/2 N.	123-1/2 E.	Celebes.
10	15 19 40*	18 S.	74-1/2 W.	Off south coast of Peru.
11	01 11 24*	34-1/2 N.	26-1/2 E.	Near south coast of Crete.
11	02 57 15*	35 N.	67-1/2 E.	Afghanistan aftershock.
11	08 22 09*	52 N.	31-1/2 W.	North Atlantic Ocean.
11	09 56 10*	27-1/2 S.	69 W.	Northern Chile-Argentina border. Mag. 5-3/4 - 6.

Date 1956	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
June	h m s	° '	° '	
11	16 49 45**			Near coast of Guerrero, Mexico.
11	22 33 51**			Near coast of northern Peru.
11	22 54 48*	50-1/2 N.	89 E.	Southern Siberia.
12	03 12 28**			Assam. Felt at Sylhet and Mymensingh.
12	08 54 02*	9 S.	110 W.	Eastern Pacific Ocean. Mag. 6-1/2.
12	21 04 52*	9 S.	117-1/2 E.	Sumbawa.
13	12 07 41*	1/2 S.	124-1/2 E.	Near coast of Celebes. h about 200 km.
13	17 10 34*	6 S.	147-1/2 E.	Near coast of New Guinea. Felt at Lae. h about 300 km.
13	20 47 16**			New Britain region.
14	12 12 19*	45 N.	150-1/2 E.	Kurile Islands.
15	13 53 22**			Northern Kurile Islands.
15	15 35 47**			About 300 miles south of Tonga Islands. h about 200 km.
16	06 19 22*	28-1/2 N.	131-1/2 E.	Ryukyu Islands.
16	16 57 37**			Chiapas, Mexico. h about 200 km.
16	18 12 27**			Kermadec Islands.
16	18 31 03**			Do.
16	18 32 12**			Do.
16	19 36 01**			About 300 miles south of Tonga Islands.
17	03 01 34**			Kermadec Islands. h about 200 km.
19	00 19 08**			Southern Sumatra.
20	02 03 58**			Pacific Ocean, about 650 miles northwest of Easter Island.
20	16 29 42**			Tonga Islands.
21	11 06 36**			Western New Guinea.
21	19 40 12*	5 S.	120 E.	Celebes.
21	20 32 03**			Sumbawa.
22	23 35 56**			Southern Peru. h about 100 km.
23	02 18 02*	56-1/2 N.	163-1/2 E.	Near east coast of Kamchatka. Mag. 6-1/2.
23	13 44 19*	7 S.	155 E.	Solomon Islands.
23	17 59 23*	6 N.	83 W.	South of Panama.
23	23 18 57*	21 S.	174 E.	Loyalty Islands region.
24	12 55 02**			Indian Ocean, about 400 miles north of Prince Edward Island.
24	20 58 36*	7 S.	155 E.	Solomon Islands. Mag. 6-1/4.
25	01 02 30*	21-1/2 S.	67 E.	Mascarene Islands region.
25	12 52 07**			Eastern Iran.
26	00 00 13*	17 S.	169-1/2 E.	New Hebrides Islands.
26	11 23 09*	10 S.	173-1/2 W.	Tokelau Islands region.

Date 1956	Origin Time G. C. T.	Lat.	Long.	Remarks, Focal Depth, and Remarks
June	h m s	° '	° '	
27	18 57 30*	23 N.	121 E.	Southern Formosa. Felt.
27	20 40 56*	3-1/2 S.	151-1/2 E.	New Britain.
28	03 54 20*	15-1/2 S.	178 W.	Fiji Islands.
28	17 42 30**			Central Yugoslavia.
28	22 28 50*	49-1/2 N.	158 E.	Kurile Islands.
28	22 58 50	48-3/4 N.	129-1/4 W.	Off coast of Vancouver Island, British Columbia. Mag. 6-1/4 - 6-1/2.
28	23 16 50*	49 N.	129-1/2 W.	Vancouver Island aftershock.
29	02 18 28*	28 N.	57 E.	Southern Iran.
29	02 22 00*	26 N.	122 E.	Off north coast of Formosa. Felt.
29	04 09 54*	37 N.	139-1/2 E.	Central Honshu, Japan. Felt.
29	17 43 26*	14 N.	121 E.	Near southwest coast of Luzon, Philippine Islands.
29	22 36 17*	13-1/2 N.	97 W.	Off coast of Oaxaca, Mexico.
30	01 50 20*	44 N.	29 E.	Black Sea, near coast of Romania.
30	03 08 18*	39-1/2 N.	70 E.	Tadzhik S. S. R.
30	11 37 06**			Northeastern Iran.
30	13 09 47*	33-1/2 S.	103 W.	Easter Island region.
30	14 17 09*	22-1/2 S.	69 W.	Northern Chile. Felt. h about 200 km.

Date and Station		Phase	(GCT) h m s
June 1			
EUR		eP	02 43 31
HH		e(P)	02 42 26
		e	45 34
RC		eP	02 44 22
June 1			
HH		eP	06 11 51
June 1			
HH		e(P)	07 49 34
RC		e(P)	07 49 37
June 1			
COL		eP	10 54 39
EUR		eP	10 56 06
HH		eP	10 55 06
TUC		eP	10 56 36
June 1			
TUC		eP	12 59 29
June 1			
BOZ		eP	15 57 41
COL		iP	15 57 37
		i	57 56
EUR		eP	15 57 06
HH		eP	15 57 38
		e	58 06
June 1			
HH		e(P)	23 00 42
June 2			
EUR		eP	00 38 39
HH		eP	00 38 25
June 2			
COL		iP	04 12 13
June 2			
COL		eP	05 58 08
June 2			
TUC		e(P)	06 55 26
June 2			
TUC		eP	09 37 27
June 2			
TUC		e(P)	12 03 32
June 2			
EUR		iP	14 36 30
June 2			
HH		e(P)	15 18 37
		e	20 46
June 2			
COL		iP	16 48 35
		iS	50 02
		iL	50 16
HH		e(P)	16 53 17
June 2			
COL		iP	19 45 41
June 2			
RC		eP	19 58 45
June 2			
HH		e(P)	20 27 13
		i	27 43
June 2			
BC		eP	23 02 39
		epP	03 07
		eScP	07 44
COL		eP	22 58 44
		iP	58 45
		i	58 55
		ipP	59 09
		ePcP	23 02 38
EUR		iP	23 02 16
		ipP	02 42
		iScP	07 26
HH		iP	23 01 44
		e	02 55
		eScP	07 15
SLC		eP	23 02 29
		ePcP	03 50
June 3			
COL		iP	00 42 20
		iS	42 37
		iL	42 40
June 3			
EUR		iP	03 15 10
HH		e(P)	03 15 11
June 3			
HH		e(P)	04 01 28
June 3			
BC		iP	05 27 34
		e	27 52
		ePP	29 21
BOZ		iP	05 26 14
		ePP	27 26
		eS	31 27
		eL	33 45
BUT		iP	05 26 11
		iPP	27 19
		iPcP	28 54
		e(S)	31 09
		eL	33 22
COL		iP	05 23 23
		e	23 38
		e	23 49
		e	24 19
		e	25 05
		eS	26 07
		iS	26 25
		i	26 51
		eL	27 18
COLU		iP	05 28 06
		ePP	29 57
		eS	35 04
		eL	40 53
EUR		iP	05 26 58
		iPcP	29 00
		eL	38 29
HH		iP	05 25 49
		iPP	26 44
		e(S)	31 43
		iL	32 39
PHIL		eP	05 27 28
		eS	33 55
		eL	37 16
RC		iP	05 26 31
SLC		iP	05 26 56
		e(S)	32 00
		eL	35 32
SJ		eP	05 30 08
SIT		eP	05 24 36
		ePP	25 00
		e	25 35
		eS	28 54
		eL	30 14
TUC		iP	05 28 04
		e	28 32
		eS	35 04
		eL	43 48
WASH		iP	05 27 32
		e(S)	35 15
June 3			
COL		iP	09 40 14
June 3			
BC		eP	09 48 29
BOZ		eP	09 49 07
BUT		eP	09 49 11
COL		iP	09 49 10
EUR		iP	09 48 28
HH		eP	09 49 10
RC		e(P)	09 49 33
		e	50 21
SLC		eP	09 48 58
TUC		eP	09 48 35
June 3			
BC		eP	13 41 27
BOZ		eP	13 41 16
BUT		iP	13 41 11
		i	41 37
COL		iP	13 38 43
EUR		iP	13 41 03
HH		iP	13 40 59
RC		iP	13 41 44
		e	41 59
SLC		eP	13 41 27
June 3			
COL		iP	13 59 46
EUR		eP	13 58 33
HH		e(P)	13 58 21
RC		eP	13 57 40
June 3			
EUR		eP	16 55 32
June 3			
BC		iP	19 05 20
COL		e(P)	19 06 17
EUR		eP	19 05 27
HH		e(PP)	19 09 48
RC		eP	19 06 20
TUC		eP	19 05 21
June 3			
COL		iP	19 23 16
June 3			
RC		eP	20 03 12
June 3			
COL		iP	23 13 03
		ipP	13 26
		i	13 33
EUR		iP	23 11 31
		ipP	11 56
HH		i(P)	23 13 05
		e	16 42
TUC		eP	23 12 33
		epP	12 57

Date and Station		Phase (GCT)
		h m s
June 4		
BC	eP	02 14 35
COL	iP	02 10 34
	i	10 50
EUR	iP	02 14 13
	e	14 41
RC	e(P)	02 14 40
TUC	eP	02 15 07
June 4		
COL	eP	02 13 16
	i	13 36
EUR	eP	02 17 02
RC	e(P)	02 17 34
TUC	eP	02 18 14
June 4		
COL	iP	02 26 03
EUR	eP	02 29 52
HH	e(P)	02 29 41
RC	eP	02 30 13
June 4		
COL	iP	04 54 30
June 4		
BC	e(P)	07 15 09
	e	15 21
BOZ	eP	07 14 47
BUT	e(P)	07 14 45
COL	iP	07 11 20
EUR	iP	07 14 45
	i	14 56
HH	eP	07 14 04
	e	14 15
RC	e(P)	07 15 32
SLC	eP	07 15 07
TUC	eP	07 15 48
June 4		
BC	iP	07 17 15
	i	17 36
BOZ	eP	07 16 46
	eS	22 44
	eL	25 48
BUT	eP	07 16 38
	i	17 02
	iPcP	18 55

Date and Station		Phase (GCT)
		h m s
BUT	iS	07 22 28
	eL	25 32
COL	iP	07 13 25
	i	14 07
	iS	16 39
	iL	18 15
COLU	eP	07 19 53
	i	20 06
	eS	28 25
	eScS	29 44
	eSS	32 12
	eL	35 47
EUR	iP	07 16 51
	i	17 44
	eScP	22 44
	ePcS	23 00
HH	eP	07 16 20
	iPcP	18 49
	iScP	22 33
	eP'P'	48 39
PHIL	e(P)	07 19 45
	iS	28 16
	iScS	29 38
	eSS	32 12
	eL	35 51
RC	eP	07 17 33
	i	17 42
SLC	eP	07 17 06
	eS	23 20
	eL	26 38
SJ	iP	07 21 54
SIT	eP	07 14 04
	e	14 57
	e	16 24
	i(S)	18 01
	iL	19 08
TUC	iP	07 17 54
	e	20 10
	eS	24 46
	eL	28 16
WASH	iP	07 19 46
	eS	28 04
	eScS	29 16
June 4		
TUC	eP	08 18 07
June 4		
TUC	e(P)	08 27 11
	e	29 51
June 4		
BC	iP	12 18 55
BOZ	e(P')	12 23 04
	epP	23 28

Date and Station		Phase (GCT)
		h m s
BUT	e(P)	12 19 33
	eL	48 07
COL	iP	12 19 37
EUR	iP	12 19 01
HH	e(P)	12 20 07
	ePP	23 27
	e	24 02
RC	e(P)	12 19 54
	ePP	24 14
SLC	eP	12 19 20
	eL	57 42
TUC	eP	12 18 55
	e	19 08
	e	20 23
June 4		
TUC	e(P)	12 36 24
June 4		
COL	i(P)	13 17 54
	i	18 19
June 4		
HH	eP	14 53 48
June 4		
COL	iP	15 19 24
	i	20 02
	i	20 18
June 4		
EUR	iP	15 30 35
June 4		
COL	iP	18 55 39
	e	59 05
HH	e(P)	18 58 41
	e	19 01 17
TUC	e(P)	19 00 22
June 4		
COL	iP	23 59 14
June 5		
COL	i(P)	00 26 12
	iP	26 20
June 5		
BH	iP	05 33 34
	iS	34 26
COLU	e(P)	05 37 41
HH	e(P)	05 40 50
	ePP	42 23
RC	eP	05 39 42
SJ	eP	05 36 57

Date and Station		Phase (GCT)
		h m s
TUC	e(P)	05 39 02
June 5		
BC	eP'	05 48 58
	ePP	51 07
BOZ	eP'	05 48 55
BUT	eP'	05 48 52
COL	eP	05 43 33
	ePP	47 32
COLU	e(P')	05 49 24
	e	49 36
	i	49 42
HH	iP'	05 48 47
	ePP	50 42
RC	ePP	05 51 26
	ePKS	52 27
	i	52 59
SLC	eP'	05 48 59
TUC	eP'	05 49 05
	ePKS	52 31
WASH	eP	05 49 33
	ePP	53 34
June 5		
BC	eP	06 12 25
BOZ	eP	06 13 13
BUT	e(P)	06 13 17
	eL	46 25
COL	ePP	06 19 38
	eS	27 27
	ePS	29 31
	eSS	35 58
	eL	53 15
COLU	eP	06 12 39
	ePP	16 18
	eS	23 22
	eScS	23 37
	eSP	24 15
	e	25 52
	eSS	29 12
	eL	36 32
HONO	eS	06 22 23
	eL	34 46
HH	e(P)	06 13 25
	ePP	17 21
PHIL	e(PP)	06 17 23
	eS	24 21
	eSS	31 20
	eL	41 23
RC	eP	06 13 08

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Date and Station		Phase	(GCT) h m s
TUC	eP		06 12 06
	eL		35 32
June 5 BOZ	e(P)		07 46 26
June 5 TUC	eP		07 53 31
June 5 HH	e(P)		08 03 00
RC	e(P)		07 59 46
	e		08 01 10
June 5 BC	eP		16 21 36
BOZ	eP		16 21 08
COL	iP		16 17 38
	eL		21 48
EUR	iP		16 21 11
	i		21 26
	ePcP		23 26
HH	eP		16 20 39
	ePcP		23 18
June 5 EUR	iP		16 52 55
June 5 COL	iP		17 53 50
EUR	eP		17 57 25
June 5 EUR	iP		18 10 00
June 5 COL	iP		19 07 08
EUR	iP		19 10 50
	i		11 13
RC	eP		19 11 22
			11 36
SLC	eP		19 11 14
June 5 TUC	eP		19 39 35
	iL		40 34
June 5 EUR	eP		20 08 35
June 5 BC	e(P)		20 24 58
COL	iP		20 21 07
EUR	iP		20 24 32
	i		24 42
	i		25 16
HH	eP		20 24 01
	e(PcP)		26 32
RC	eP		20 25 29
SLC	eP		20 24 54
TUC	eP		20 25 35
	ipP		25 47
June 5 BOZ	e(P)		23 43 22
TUC	e(P)		23 42 03
June 6 HH	e(P)		07 18 27
June 6 COL	eP		08 38 11
RC	eP		08 41 14
June 6 BC	eP		10 24 57
EUR	iP		10 25 35
	ipP		25 56
HH	eP		10 26 49
TUC	iP		10 23 58
June 6 COL	eP		17 16 27
June 6 COL	iP		18 22 03
June 6 COL	e(P)		21 01 46
June 6 BC	eP		21 25 24
TUC	eP		21 23 18
	eL		24 08
June 6 EUR	eP		22 13 47
June 6 COL	eP		23 01 12
June 6 COLU	eP		23 41 03
June 7 HH	iP		03 26 26
June 7 BC	eP		06 05 12
	e(S)		05 57
	eL		06 22
EUR	iP		06 06 00
	eL		07 58
June 7 EUR	eP		10 25 39
	e		25 54
June 7 COL	iP		14 15 56
	i		16 33
June 7 COL	eP		14 25 42
	iP		25 47
	i		25 54
June 7 COL	i(P)		18 28 51
	i		30 34
EUR	iP		18 31 50
	i		32 00
HH	eP		18 31 28
	i		31 39
June 8 BC	iP		02 06 54
	i		08 04
BOZ	eP		02 07 19
BUT	eP		02 07 15
COL	iP		02 06 34
EUR	iP		02 06 53
	i		08 00
HH	iP		02 07 12
RC	eP		02 07 42
SLC	iP		02 07 10
SJ	iP'		02 13 10
TUC	iP		02 07 04
June 8 COL	iP		02 13 04
EUR	iP		02 12 57
HH	eP		02 13 42
June 8 BOZ	e(P)		03 36 04
COL	e(P)		03 32 32
EUR	eP		03 36 37
HH	iP		03 35 40
June 8 BOZ	eP		04 21 14
COL	iP		04 19 20
	i		19 57
HH	eP		04 20 58
	ePP		24 57
RC	eP		04 21 18
TUC	eP'		04 26 05
June 8 HH	eP		07 40 05
	e		40 27
TUC	e(P)		07 44 16
June 8 TUC	eP		08 15 27
June 8 RC	eP		09 26 44
June 8 TUC	eP		09 34 01
June 8 BC	iP		12 43 08
	e		43 22
	eP'		46 53
	iPP		47 08
BOZ	eP		12 43 23
COL	iP		12 42 10
EUR	iP		12 43 04
	i		43 19
HH	eP		12 43 13
	eP'		46 57
RC	eP		12 43 48
SLC	eP		12 43 19
SJ	iP'		12 49 13
TUC	ePP		12 47 16
June 8 HH	e(P)		13 00 05
RC	e(P)		12 59 46
June 8 RC	e(P)		14 01 39
	e		02 28
June 8 BC	iP		14 04 56
	ipP		05 14
BOZ	eP		14 05 28
BUT	iP		14 05 34
	ipP		05 52
COLU	eP		14 03 38
EUR	iP		14 05 15
	ipP		05 33

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Date and Station		Phase (GCT)
		h m s
EUR	isP	14 05 58
	i	10 53
HH	iP	14 05 45
	ipP	06 05
	i(PP)	09 56
	eS	16 30
RC	iP	14 05 06
SLC	eP	14 05 09
	isP	05 46
SJ	eP	14 01 39
	ePP	03 36
TUC	iP	14 04 27
	ipP	04 45
	eL	21 24
June 8		
BC	eP	16 30 01
COLU	eP	16 29 45
TUC	eP	16 29 12
	eS	35 47
	eL	37 00
June 8		
HH	eP	21 05 18
	e	05 53
SJ	iP	21 00 37
June 8		
BC	e(P)	21 11 32
	e	11 56
EUR	eP	21 11 39
June 9		
HH	e(P)	00 59 10
June 9		
EUR	iP	01 41 10
HH	iP	01 40 47
June 9		
COL	iP	02 24 51
	iS	25 16
EUR	eP	02 31 03
HH	iP	02 29 59
June 9		
BC	e(P)	02 33 49
BOZ	e(P)	02 32 42
	eL	40 25
BUT	eP	02 32 36
	eL	39 16
COL	iP	02 27 04

Date and Station		Phase (GCT)
		h m s
EUR	eP	02 33 17
	eL	44 11
HH	iP	02 32 13
	eL	37 57
SLC	eP	02 33 20
	eL	44 13
SIT	e(P)	02 29 16
	e	29 33
	e	30 18
	eS	30 42
	iS	30 43
	eL	31 22
TUC	eP	02 34 28
June 9		
BC	iP	03 17 28
BOZ	eP	03 16 57
BUT	eP	03 16 51
EUR	iP	03 17 09
	i	17 36
	e	18 55
HH	iP	03 16 36
	i	17 26
RC	iP	03 17 29
SLC	eP	03 17 17
TUC	iP	03 17 56
June 9		
HH	e(P)	03 54 26
June 9		
BC	e(P)	05 50 24
	i	50 36
BOZ	eP	05 50 48
COLU	eP'	05 56 08
EUR	eP	05 50 19
	i	50 32
HH	eP	05 50 27
RC	eP	05 51 15
SJ	e(P')	05 56 26
	i	56 40
June 9		
RC	eP	06 38 25
June 9		
BC	iP	10 20 22C
	iPcP	20 31
	ipP	20 51
	i	22 46
	iS	30 17

Date and Station		Phase (GCT)
		h m s
BOZ	eP	10 20 53D
	iP	20 57
	ipP	21 23
	i	21 48
	ePP	24 18
	eS	31 15
	e	32 38
	eSS	36 57
	ePKKP	39 17
	e(SSS)	40 48
	eL	44 05
BUT	eP	10 20 59C
	ipP	21 31
	isP	21 55
	ePP	24 06
	iS	31 26
	e	32 20
	eSS	37 18
	eSSS	41 05
	eL	43 59
COL	ePP	10 27 36
	e	31 50
	eS	35 09
	eP'P'	46 12
COLU	iP	10 19 06C
	ePP	21 21
	e	22 33
	ePPP	23 08
	eS	27 37
	eScS	28 20
	e	29 14
	eSS	31 52
	eSSS	34 50
	eL	35 19
EUR	iP	10 20 40C
	i	22 33
	e	29 29
	ePKKP	39 19
	eP'P'	47 50
HONO	eSKS	10 32 14
	eS	33 38
	eSS	40 08
	eL	53 22
HH	iP	10 21 10C
	i	21 22
	ipP	21 39
	eS	31 38
	esS	32 14
	ePKKP	38 48
	e	40 05
	e	43 58
PHIL	eP	10 19 39
	eS	28 48
	iS	28 51
	eL	33 30
RC	eP	10 20 33
	i	20 37D
	e	21 21
	ePP	24 11
	iS	30 35
	eSS	35 29

Date and Station		Phase (GCT)
		h m s
RC	eL	10 41 43
SLC	e(P)	10 20 36
	iP	20 39D
	epP	21 09
	e	22 57
	ePP	23 54
	eS	30 38
	e	31 57
	e	33 59
	eSS	35 59
	eSSS	39 33
	eL	44 41
SJ	iP	10 17 08C
	ePP	19 08
	iPP	19 11
	eS	24 09
	eScS	27 04
	eSS	27 44
	eL	30 40
SIT	ePP	10 26 47
	eSKS	32 34
	eSKKS	33 03
	e(S)	34 19
	e	35 50
	e	36 12
	eSS	41 12
	eSSS	45 12
	eL	51 18
TUC	eP	10 19 52D
	i	20 04
	e	21 28
	e(PP)	23 34
	ePPP	24 29
	eS	29 18
	iS	29 21
	eL	37 08
WASH	iP	10 19 30C
	iS	28 38
	eSS	33 10
	eSSS	36 07
	eL	43 02
	i(P'P')	47 40
June 9		
EUR	iP	21 50 27
June 9		
COL	eP	22 45 18
	i	45 30
June 9		
TUC	eP	23 14 34
June 9		
BC	eP	23 28 20C
	eP'	31 45
	ePP	32 45
	eSKKS	39 37
BOZ	eP	23 27 36D
	iP	27 37D
	iPP	31 39
	e	34 17

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Date and Station		Phase	(GCT) h m s
BOZ		e(SKS)	23 38 21
		eS	39 15
		ePS	40 33
		ePKKP	44 24
		eSS	46 27
		e	48 22
		eP'P'	52 08
		eL	56 09
BUT		iP	23 27 35C
		iPP	31 34
		i	33 48
		iSKS	38 06
		iS	39 15
		iPS	40 46
		r(PKKP)	44 31
		iSS	45 50
		iSSS	49 52
		eL	57 18
COL		iP	23 25 42C
		iPP	28 22
		iPPP	30 25
		i	34 47
		iS	35 20
		i	35 36
		i	37 44
		iSS	40 28
		iSSS	43 55
		iL	45 08
		i	50 29
COLU		eP	23 28 04C
		eP'	31 17
		ePP	32 12
		ePPP	34 34
		eSKS	38 48
		eS	39 36
		i(PS)	41 32
		iPPS	42 21
		ePKKP	43 56
		eSS	47 12
		eL	00 00 24
EUR		iP	23 28 05C
		i	29 28
		iP'	30 53
		iPP	31 30
		iPKKP	43 39
		i	43 56
		iSKKP	47 47
		iP'P'	52 01
HONO		e(PP)	23 32 42
		ePP	33 13
		ePS	42 18
		ePPS	43 24
		eL	00 06 44
T_L = 13 sec. $A_{max.}$=4.5mm			
HH		iP	23 27 23C
		iP'	30 40
		iPP	31 21
		e	32 37
		eSKS	38 13
		eP'P'	52 11
PHIL		eP	23 27 25
		eP'	30 19
		iPP	31 28

Date and Station		Phase	(GCT) h m s
PHIL		iSKS	23 38 10
		iPPS	40 22
		eSS	45 13
		eL	52 22
RC		iP	23 27 40D
		e	28 48
		ePP	31 34
		ePPP	33 59
		eS	39 19
		ePS	40 40
		eSS	46 07
		eL	53 19
SLC		eP	23 27 59D
		ePP	31 59
		iPP	32 17
		e	35 05
		e(SKS)	38 47
		i(S)	40 01
		i	41 37
		ePKKP	43 44
		eSS	47 20
		eL	57 07
SJ		e(P)	23 28 29
		eP'	32 14
		ePP	33 02
		iPP	33 05
		eSKS	39 12
		eS	40 40
		iPS	42 36
		ePKKP	43 25
		ePPS	43 51
		eSS	48 39
		eL	00 02 21
SIT		iP	23 26 34S,E
		iPP	29 54
		i(PPP)	31 22
		i	33 13
		eS	37 00
		iS	37 04
		iPS	38 10
		e(PPS)	38 56
		eSS	42 28
		iSSS	46 14
		eL	49 09
TUC		e(P)	23 28 40
		eP'	32 11
		ePP	33 05
		i	35 20
		i	35 38
		eS	40 42
		ePS	42 48
		i	43 00
		ePPS	44 02
		eSS	48 04
		eSSS	51 20
		eL	54 26
WASH		iP	23 27 32C
		eP'	30 13
		iPP	31 36
		ePPP	33 17
		iSKS	38 16
		ePS	39 42
		e	42 13

Date and Station		Phase	(GCT) h m s
WASH		eSS	23 45 04
		eSSS	49 09
		eL	53 22
June 10			
BOZ		ePP	00 11 25
COL		iP	00 05 30
HH		eP	00 07 13
		e	10 35
		ePP	11 04
June 10			
COL		eP	00 48 49
June 10			
BOZ		eP	01 15 22
COL		iP	01 13 28
HH		e(P)	01 15 54
		ePP	19 07
June 10			
COL		iP	02 05 04
June 10			
COL		iP	03 16 40
June 10			
COL		iP	03 44 56
June 10			
COL		e(P)	04 35 01
COLU		eP	04 41 33
EUR		iP	04 41 28
June 10			
SJ		iP	05 41 30
		iS	42 26
		iL	42 38
June 10			
COL		iP	07 41 29
June 10			
COL		eP	10 46 48
June 10			
COL		eP	10 59 21
June 10			
COL		eP	12 46 28
EUR		iP	12 51 00
RC		eP	12 50 42
June 10			
COL		eP	13 27 16
June 10			
COL		eP	14 14 02
HH		eP	14 14 35

Date and Station		Phase	(GCT) h m s
June 10			
BOZ		eP	15 31 04
BC		iP	15 30 31
COL		iP	15 33 24
EUR		iP	15 30 51
HH		eP	15 31 24
RC		eP	15 30 37
SLC		eP	15 30 44
June 10			
COLU		eP	18 16 20
RC		e(P)	18 17 17
		e	17 36
TUC		eP	18 16 39
June 11			
SLC		eP	00 33 25
June 11			
BOZ		eP	01 24 34
HH		iP	01 24 28
RC		iP	01 24 24
June 11			
HH		i(P)	03 20 58
June 11			
BOZ		eP	08 31 03
BC		iP	08 32 06
		i	32 15
COLU		iP	08 29 39
		i	29 48
		ePP	31 08
		eS	35 44
		e	37 31
		eL	38 40
EUR		iP	08 31 54
		i	32 03
		iPcP	32 56
HH		iP	08 31 03
		ePcP	32 30
RC		eP	08 30 37
		e	30 47
SLC		eP	08 31 30
SJ		eP	08 30 10
TUC		eP	08 32 08
		i	32 17
		eL	54 09

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Date and Station		Phase (GCT) h m s
June 11		
BOZ	eP	10 08 34
	e	10 35
BC	iP	10 08 02
	i	09 02
BUT	iP	10 08 40
	ipP	08 56
COLU	eP	10 06 35
	eS	14 57
	eL	21 52
EUR	iP	10 08 20
HH	eP	10 08 51
RC	iP	10 08 12
SLC	eP	10 08 15
SJ	iP	10 04 37
TUC	iP	10 07 32
	eL	30 28
WASH	eP	10 06 59
	eScS	17 19
	eL	40 03
June 11		
HH	e(P)	10 26 46
June 11		
BOZ	eP	10 42 20
June 11		
EUR	iP	11 41 05
TUC	e(P)	11 39 50
June 11		
BOZ	eP	16 56 10
BC	iP	16 55 09
BUT	eP	16 56 24
COLU	eP	16 55 04
EUR	iP	16 55 39
HH	eP	16 56 36
RC	e(P)	16 55 41
	e	55 50
SLC	e(P)	16 55 41
TUC	iP	16 54 18
	i	54 30
	e	55 18
	e(S)	56 44
	iL	17 00 16
June 11		
EUR	iP	18 37 37
HH	iP	18 37 44

Date and Station		Phase (GCT) h m s
June 11		
BOZ	eP	22 44 11
BC	e(P)	22 43 17
	e	43 32
COL	iP	22 46 47
	i	47 02
COLU	eP	22 41 53
	e	42 05
EUR	iP	22 43 55
RC	eP	22 43 42
SJ	eP	22 40 10
June 11		
BOZ	eP	23 07 09
BC	eP	23 07 52
BUT	eP	23 07 07
EUR	iP	23 07 35
HH	eP	23 06 52
	i	07 40
RC	iP	23 07 22
SLC	eP	23 07 33
June 11		
BOZ	eP	23 45 51
June 12		
COL	iP	00 00 29
June 12		
BOZ	eP	02 21 38
COL	iP	02 21 42
EUR	iP	02 21 04
HH	e(P)	02 21 38
SLC	eP	02 21 24
June 12		
COL	eP	03 24 36
	iP	24 43
June 12		
COL	iP	05 08 32
EUR	iP	05 07 57
June 12		
COLU	eP	06 52 00
EUR	iP	06 52 17
HH	eP	06 53 01
RC	iP	06 52 38

Date and Station		Phase (GCT) h m s
SLC	eP	06 52 22
TUC	eP	06 51 32
June 12		
BOZ	eP	09 03 31
	iP	03 38
BC	eP	09 02 21
	eL	16 12
BUT	eP	09 03 38
	eS	11 20
	e(ScS)	13 34
	eSS	15 24
	eL	17 40
COL	eP	09 06 07
	eS	16 10
	eL	27 38
COLU	iP	09 03 06
	ePP	05 24
	eS	10 06
	e	10 20
	e(ScS)	12 50
	eL	15 19
EUR	eP	09 02 47
	iP	02 49
HONO	e(P)	09 03 56
	eS	11 50
	eL	20 04
HH	eP	09 03 52
PHIL	eP	09 04 09
	eS	12 03
	eL	22 06
RC	eP	09 03 23
	ePcP	04 07
	eS	10 58
	eSS	15 07
	eL	21 27
SLC	eP	09 02 58
	iP	03 04
	eS	10 11
	e(SS)	14 13
	eL	15 37
SJ	eP	09 03 06
TUC	eP	09 01 52
	eS	08 08
	iS	08 10
	eL	12 16
WASH	eP	09 03 51
	iS	11 49
	eL	18 05
June 12		
EUR	eP	10 59 05
June 12		
HH	e(P)	11 49 35

Date and Station		Phase (GCT) h m s
June 12		
EUR	eP	12 20 07
June 12		
EUR	eP	12 24 08
HH	e(P)	12 25 14
RC	e	12 24 45
June 12		
COL	eP	12 33 06
	i	33 14
June 12		
EUR	eP	14 35 03
June 12		
COL	iP	19 45 08
	ipP	45 42
EUR	iP	19 45 43
	ipP	45 58
June 12		
BOZ	eP'	21 23 54
	ePP	25 34
COL	e(P)	21 18 50
COLU	eP'	21 24 43
EUR	eP'	21 23 52
	i	24 09
	iPP	25 25
SLC	ePP	21 25 43
June 13		
EUR	eP	01 29 28
TUC	eP	01 29 05
June 13		
COL	eP	03 43 46
June 13		
EUR	eP	05 39 09
June 13		
COL	eP	08 59 16
June 13		
HH	e(P)	09 58 51
June 13		
COL	eP	11 10 44
June 13		
BOZ	eP'	12 26 04
	iPP	26 56
	ePKKP	36 56
BC	eP'	12 25 48
	e	26 07
	ePP	26 58
	ePPP	29 37

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

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

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Date and Station		Phase (GCT) h m s
June 20		
EUR	iP	18 21 18
June 20		
BC	iP	20 16 14
	i	16 26
	i	16 36
	iL	17 37
EUR	eP	20 17 04
	eS	17 42
	eL	18 07
TUC	eP	20 16 13
	e	16 21
	iL	17 22
June 20		
EUR	eP	21 56 38
June 20		
COL	iP	22 15 22
EUR	eP	22 15 06
June 20		
EUR	iP	22 41 18
HH	eP	22 40 31
June 20		
COL	iP	22 57 27
EUR	eP	22 57 06
June 21		
COL	iP	00 02 06
EUR	iP	00 02 35
June 21		
COL	iP	00 07 00
EUR	eP	00 06 40
June 21		
COL	iP	00 54 12
EUR	iP	00 53 39
HH	e(P)	00 54 12
TUC	eP	00 53 38
June 21		
EUR	iP	01 34 24
June 21		
COL	eP	04 19 05
EUR	iP	04 15 26
	i	17 18
HH	e(P)	04 15 36
	e	16 28
TUC	e(P)	04 14 45
	eL	25 08

Date and Station		Phase (GCT) h m s
June 21		
EUR	eP	05 49 03
June 21		
EUR	eP	06 36 22
	e	37 38
June 21		
HH	eP	07 07 50
	i(S)	08 11
	iL	08 13
June 21		
COL	iP	09 37 11
June 21		
COL	iP	10 39 45
EUR	iP	10 39 14
TUC	eP	10 39 11
	e	39 28
June 21		
COL	eP	11 19 32
June 21		
EUR	iP	16 46 09
June 21		
COL	iP	19 53 50
COLU	eP'	19 59 51
June 21		
BC	eP'	20 51 00
BOZ	eP'	20 50 55
	e	51 15
COLU	eP'	20 52 09
EUR	eP'	20 51 00
HH	eP'	20 51 07
	e	52 23
June 21		
EUR	eP	22 00 25
June 22		
TUC	eP	02 38 52
June 22		
EUR	e(P)	06 08 24
RC	e(P)	06 08 10
June 22		
EUR	iP	13 15 25
June 22		
EUR	e(P)	13 29 39
TUC	e(P)	13 28 25
June 22		
EUR	eP	15 10 42

Date and Station		Phase (GCT) h m s
June 22		
COLU	eP	23 45 29
EUR	iP	23 47 03
	i	47 18
	ipP	47 33
	isP	47 47
HH	iP	23 47 33
	ipP	48 04
RC	eP	23 46 47
	ipP	47 18
SJ	eP	23 42 45
June 23		
EUR	iP	00 32 03
	i	32 28
	e	32 47
June 23		
TUC	eP	02 07 22
June 23		
BC	iP	02 27 49
	iPcP	29 06
	eS	35 46
BOZ	iP	02 27 13
	i	27 21
	eS	34 28
	eScS	37 12
	eSS	38 12
	eL	41 24
	e(P'P')	57 24
BUT	eP	02 27 03
	iPP	29 08
	ePPP	30 17
	i	32 18
	iS	34 15
	iScS	37 02
	iSS	38 05
	eL	39 37
CHI	eP	02 28 45
	eS	37 29
	eL	45 01
COL	iP	02 23 26
	ipP	24 02
	iS	27 46
	eL	28 48
	i(P'P')	56 35
	eP'P'	03 00 24
COLU	iP	02 29 45
	ePP	32 30
	eS	39 20
	eScS	40 02
	eL	48 19
EUR	iP	02 27 23
	ePP	29 31
	iScP	32 01
	iPcS	32 29
	i	33 10
	i	33 44

Date and Station		Phase (GCT) h m s
EUR	i	02 36 47
	eP'P'	57 16
	i	03 04 48
HONO	eP	02 26 28
	i	26 55
	i	27 10
	ePP	28 00
	eS	33 00
	e	34 48
	eScS	36 04
	eL	36 20
T_L = 13 sec. $A_{max.}$ = 7mm.		
HH	iP	02 26 44
	i	26 55
	iPcP	28 13
	eScP	32 08
	e(P'P')	57 13
PHIL	eP	02 29 27
	e(PPP)	33 10
	iS	38 45
	iScS	39 39
	eSS	43 30
	eL	47 10
RC	iP	02 27 47
	ePcP	28 44
	e	29 11
	i(PPP)	31 26
	iS	35 38
	eScS	37 30
	iSS	39 46
	eL	43 18
	eP'P'	57 47
SJ	iP	02 31 26
TUC	eP	02 28 23
	iPP	30 35
	ePPP	32 08
	iS	36 44
	eSS	40 38
	eL	43 20
	eP'P'	57 14
	e	57 32
WASH	iP	02 29 27
	ePP	32 09
	ePPP	33 59
	eS	39 01
June 23		
EUR	eP	03 42 42
HH	e(P)	03 42 19
June 23		
TUC	eP	04 10 04
June 23		
BOZ	e(P)	08 22 43
EUR	eP	08 23 24
HH	e(P)	08 24 55

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Date and Station		Phase (GCT)
		h m s
SLC	iP	08 21 52
	iS	22 09
June 23		
EUR	iP	10 45 40
	i	45 58
	iL	46 29
June 23		
COL	iP	13 56 48
EUR	eP	13 57 41
June 23		
BH	iP	18 00 38
	iS	01 27
BC	iP	18 07 21
BOZ	eP	18 07 56
COL	iP	18 11 05
	iPP	13 41
COLU	eP	18 05 14
EUR	eP	18 07 43
HH	iP	18 08 20
RC	iP	18 07 15
SJ	iP	18 04 08
TUC	eP	18 06 39
June 23		
BH	eP	18 29 27
	iS	30 16
HH	e(P)	18 37 09
June 23		
EUR	eP	20 04 57
	e	06 01
June 23		
EUR	eP	20 54 31
	e	55 36
June 23		
BH	eP	23 07 01
	iS	07 50
June 23		
COL	iP	23 32 04
	i	32 18
EUR	iP	23 31 58
HH	eP	23 32 23
	ePP	36 13
TUC	eP	23 32 01
June 24		
COL	eP	03 00 29

Date and Station		Phase (GCT)
		h m s
June 24		
BC	eP	03 55 45
	iL	56 54
EUR	eP	03 56 23
	eL	58 49
TUC	eP	03 55 22
	e	55 37
	e(S)	56 09
	iL	56 28
June 24		
EUR	eP	06 43 34
June 24		
HH	e(P)	07 24 40
June 24		
EUR	eP	10 56 23
TUC	eP	10 56 24
June 24		
EUR	eP	12 50 28
June 24		
BOZ	iP'	13 14 52
	e	15 23
BUT	eP'	13 14 53
COL	iP'	13 14 49
	i	15 21
	iPP	18 52
COLU	eP'	13 14 12
EUR	iP'	13 14 59
	ePP	19 19
HH	iP'	13 14 55
	ePP	19 12
RC	iP'	13 14 44
	i	14 51
TUC	eP'	13 14 52
June 24		
BUT	eP	14 43 06
June 24		
COL	iP	19 56 33
June 24		
EUR	eP	20 47 32
June 24		
BC	iP	21 12 01
	i	12 05
BOZ	iP	21 12 19
	eS	22 52
	ePS	25 04
	eL	44 36
BUT	eP	21 12 28
	ePP	16 17

Date and Station		Phase (GCT)
		h m s
COL	iP	21 11 03
	eS	21 18
	eSS	26 42
	eL	33 20
	eP'P'	37 42
COLU	eP'	21 17 36
	eSKS	24 34
	ePS	29 16
	eL	58 25
EUR	iP	21 11 58
	eS	23 08
	ePS	24 36
	eP'P'	37 20
	eL	38 38
HH	eP	21 12 07
	e	15 11
	ePP	16 25
	eS	22 37
RC	eP	21 12 41
	eL	48 19
SJ	eP'	21 17 58
	i	18 09
	ePP	21 43
TUC	eP	21 12 27
	ePP	16 09
WASH	e	21 15 45
	ePP	19 25
	eL	22 00 09
June 24		
COL	iP	21 16 07
June 24		
COL	eP	21 37 42
June 24		
EUR	eP	23 48 57
	e	50 22
	e	52 03
June 25		
BUT	eP'	01 22 47
COL	ePP	01 24 05
COLU	iP'	01 22 29
EUR	eP'	01 22 47
	ePP	27 01
HH	eP'	01 22 35
	ePP	26 17
RC	eP'	01 22 40
	e	22 47
	i	23 00
TUC	eP'	01 22 55
	ePP	27 48
June 25		
BC	iP	03 12 47

Date and Station		Phase (GCT)
		h m s
COL	eP	03 15 08
EUR	iP	03 12 51
	e	14 49
	i	16 42
TUC	iP	03 12 52
	e	16 41
June 25		
EUR	eP	06 00 00
June 25		
TUC	e(P)	06 52 10
June 25		
HH	eP	11 03 35
June 25		
COL	iP	13 04 20
June 25		
COL	iP	14 14 46
	i	14 53
	i	15 11
June 25		
COL	iP	15 01 55
	i	02 06
June 25		
EUR	eP	17 10 42
HH	e(P)	17 11 13
June 25		
BC	eP	18 17 44
COL	iP	18 16 21
	i	17 01
EUR	iP	18 17 38
HH	iP	18 17 44
RC	eP	18 18 28
June 26		
BC	iP	00 13 10
	i	13 24
BUT	eP	00 13 34
COL	iP	00 13 06
	e(PP)	16 21
EUR	iP	00 13 13
	i(PP)	16 52
HH	iP	00 13 33
	iPP	17 25
SJ	iP'	00 19 13
TUC	iP	00 13 19
	ePP	16 58
June 26		
BOZ	eP	02 02 35

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

Date and Station		Phase (GCT) h m s
June 28		
BUT	eP	23 19 40
COL	iP	23 21 12
EUR	eP	23 20 03
HH	eP	23 19 21
RC	iP	23 21 09
TUC	eP	23 21 43
June 28		
COL	eP	23 34 31
EUR	eP	23 33 37
RC	eP	23 34 37
June 29		
COL	iP	02 31 08
	i	31 18
June 29		
BOZ	eP	02 35 20
BUT	eP	02 35 13
COL	iP	02 32 56
	eS	42 08
	eL	53 42
EUR	iP	02 35 25
	e	35 56
HH	iP	02 35 04
June 29		
HH	eP	02 41 15
June 29		
COL	iP	04 18 47
June 29		
BOZ	iP	04 21 43
	e	22 35
	ePP	24 28
BUT	iP	04 21 34
COL	iP	04 18 46
EUR	iP	04 21 47
HH	iP	04 21 23
RC	iP	04 22 11
	e	23 09
SLC	eP	04 21 58
TUC	iP	04 22 29
June 29		
EUR	eP	05 32 47
June 29		
COL	iP	05 57 13

Date and Station		Phase (GCT) h m s
June 29		
EUR	eP	06 47 56
June 29		
COL	eP	09 16 39
EUR	eP	09 15 36
RC	e(P)	09 16 36
June 29		
COL	eP	09 48 58
EUR	eP	09 47 58
RC	eP	09 48 57
June 29		
EUR	eP	17 44 36
June 29		
COL	iP	17 55 31
	e	55 48
June 29		
EUR	eP	19 05 11
June 29		
RC	e(P)	19 52 31
SLC	eP	19 51 06
June 29		
EUR	eP	20 18 23
	e	18 45
	e	19 10
June 29		
EUR	eP	20 46 22
	e	46 37
	e	49 07
June 29		
EUR	eP	21 04 09
	e	05 28
June 29		
EUR	eP	22 36 04
	i	36 14
June 29		
BOZ	eP	22 43 07
BUT	eP	22 43 13
COL	iP	22 46 40
EUR	iP	22 42 35
RC	e(P)	22 42 37
	e	43 09
TUC	eP	22 41 19
	i	41 24
	eL	48 08
June 29		
EUR	eP	23 51 06

Date and Station		Phase (GCT) h m s
June 29		
EUR	eP	23 55 57
June 30		
EUR	eP	00 02 03
June 30		
EUR	eP	00 43 58
June 30		
BOZ	eP	02 02 59
	e	03 09
COL	eP	02 01 46
	i	01 51
EUR	eP	02 03 42
HH	eP	02 02 48
June 30		
COL	iP	03 19 41
June 30		
COL	eP	03 25 35
June 30		
EUR	eP	08 03 49
June 30		
COL	eP	11 49 08
HH	e(P)	11 50 45
June 30		
BOZ	eP	13 20 54
BUT	eP	13 21 56
COLU	eP	13 21 05
EUR	iP	13 21 23
HH	eP	13 22 17
RC	eP	13 21 46
TUC	eP	13 20 39
June 30		
BC	eP	14 28 18
BOZ	eP	14 28 50
	e	29 27
BUT	eP	14 28 54
COL	eP	14 30 56
COLU	iP	14 26 41
	ipP	27 25
	esP	27 47
	e(S)	34 35
	esS	35 54
	eSoS	36 07
EUR	iP	14 28 37
	epP	29 23

Date and Station		Phase (GCT) h m s
HH	iP	14 29 05
	ipP	29 51
RC	iP	14 28 24
	epP	29 05
SLC	eP	14 28 31
	e	28 40
SJ	eP	14 24 31
TUC	iP	14 27 50
June 30		
COL	iP	16 04 42
June 30		
COL	eP	18 10 14
EUR	eP	18 09 02
June 30		
COL	eP	18 36 14
EUR	e(P)	18 35 05
	i	35 19
RC	e(P)	18 36 18
June 30		
COL	iP	19 57 12
	eS	58 08
	eL	58 44
June 30		
EUR	eP	20 02 25
HH	e(P)	20 01 30
June 30		
BOZ	eP	22 32 34
COL	iP	22 32 31
	i	32 43
EUR	iP	22 31 41

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Local and Minor Earthquakes

day	hour
COL	
June	
3	00.2
	00.7
	03.3
	17.2
4	01.7
5	01.3
6	06.2
	09.4
	10.8
	18.4
7	03.5
	04.8
	07.3
8	14.1
10	02.6
	03.3
	08.7
	16.8
12	08.8
13	05.7
	20.5
14	01.7
	09.0
15	17.5
	19.5
	19.5
16	05.6
	06.0
	06.2
17	23.6
18	01.3
21	23.8
22	01.0
	10.0
	11.9
	16.3
25	18.1
	18.5
	22.3
28	14.6
	09.3
29	14.3
	17.2
	17.3
	17.3
	17.3
	22.7
EUR	
June	
1	21.5
2	03.2
	20.2
3	33.0
4	08.6
	11.0
5	22.7
6	01.0
	05.6
	12.6
	13.7
	23.8
7	15.4
	20.2
	21.3
8	04.6
	08.2

Local and Minor Earthquakes

day	hour
EUR	
June	
8	18.2
10	05.0
12	19.9
19	03.3
	09.9
	10.4
28	02.3
29	22.5
	08.5
	10.0
	10.8
	10.8
SJ	
June	
6	06.7
9	11.8
11	05.0
	09.3
14	10.2
17	11.9
24	14.6
TUC	
June	
1	00.3
	00.5
	23.1
2	04.5
	05.9
	06.7
	08.4
	09.8
3	07.0
	13.7
4	08.6
	09.2
	11.7
5	02.1
	03.6
6	05.9
	12.2
	23.8
7	03.8
	05.1
	06.1
	06.4
	10.8
9	22.3
	22.6
10	04.2
15	02.2
	11.8
16	12.6
17	01.4
	03.2
	19.1
18	03.1
	04.3
	04.4
	05.3
19	09.2
	17.6
	10.2
	20.0
20	06.9
	07.3

Local and Minor Earthquakes

day	hour
TUC	
June	
21	09.4
	23.3
22	06.0
23	21.5
24	00.0
	03.6
	05.1
	06.7
	08.0
	12.1
	19.2
25	01.4
	11.7
	17.9
	18.7
	19.0
26	05.0
28	00.1
30	11.3