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April, 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
Apr.	h m s	° '	° '	
1	06 37 08**			Near west coast of Sumatra.
1	12 16 33*	52 N.	159 E.	Near east coast of Kamchatka.
1	12 37 52*	48-1/2 N.	153-1/2 E.	Kurile Islands. h about 150 km.
2	10 49 56*	2 N.	97 E.	Off coast of Sumatra.
2	11 04 22**			Southern Tibet. h about 100 km.
4	00 23 25**			Near west coast of Southern Honshu, Japan.
5	04 02 00*	53 N.	158 E.	Near east coast of Kamchatka.
5	04 29 15*	38-1/2 N.	122-1/2 W.	Northern California. Felt in Napa Valley. Mag. 4-3/4 (Berk).
5	07 47 39*	6 S.	146-1/2 E.	Near northeast coast of New Guinea. h about 100 km.
5	17 20 27*	51 N.	179 E.	Rat Islands, Aleutian Islands.
6	07 11 34*	36-1/2 N.	71 E.	Hindu Kush. h about 200 km.
6	16 27 51*	13 S.	167 E.	New Hebrides Islands. h about 200 km.
6	23 58 40*	19-1/2 N.	109-1/2 W.	Revilla Gigedo Islands.
7	04 30 10**			Western Pakistan-India border.
7	18 00 57*	32 S.	180	Kermadec Islands. h about 350 km.
8	07 48 40**			Tonga Islands region.
8	10 32 47*	23 S.	178 W.	do.
8	22 28 10**			Northwestern Washington. Felt in northern Puget Sound.
9	04 42 26*	39-1/2 N.	118 W.	Nevada. Mag. 4-1/2 (Berk).
9	18 06 25*	16 S.	179 W.	Fiji Islands.
9	22 16 23*	10 S.	162 E.	Solomon Islands.
10	13 16 04*	5 S.	102 E.	Near south coast of Sumatra. h about 150 km.
11	01 45 10*	39 N.	70 E.	Tadzhik S.S.R.
11	17 34 15*	35-1/2 S.	54-1/2 E.	Indian Ocean, about 800 miles southeast of Madagascar.
12	04 59 37**			Central New Guinea.
12	05 05 05*	26 S.	70 W.	Northern Chile. Felt at Antofagasta, Chanaral, and Taltal.
12	22 34 44*	37 N.	50 E.	Northern Iran.
13	04 38 53*	23 S.	67 W.	Chile-Argentina-Bolivia border. Felt at Antofagasta, Chile. h about 250 km.
13	07 55 00*	50 N.	156 E.	Near south coast of Kamchatka.
16	01 42 29*	55 N.	162 E.	Near east coast of Kamchatka.
16	10 46 42*	3-1/2 S.	102 E.	Near south coast of Sumatra.
16	20 32 57**			Solomon Islands.
16	20 49 00**			500 miles west of Galapagos Islands.
17	12 16 16*	30-1/2 N.	138-1/2 E.	Off south coast of Honshu, Japan. h about 450 km.
18	01 56 49**			Southeastern Tibet.
18	11 00 13*	52 N.	178 W.	Andreanof Islands, Aleutian Islands. Mag. 6-3/4.

Date 1956	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Apr.	h m s	° '	° '	
18	15 59 00**			Northern Chile. Felt at Copiapo and La Serena. h about 60 km.
18	17 55 11*	52 N.	178 W.	Andreanof Islands aftershock.
19	18 38 52**			Southern Spain. Several killed, many injured, and extensive property damage at Albolote, Atarfe, and Granada.
20	15 15 56*	7-1/2 S.	129 E.	Banda Sea. h about 150 km.
20	16 37 01**			About 500 miles southwest of Chagos Islands.
21	00 03 23*	6 S.	155 E.	Solomon Islands.
21	01 25 12**			About 100 miles south of Formosa.
21	07 51 09**			Andreanof Islands, Aleutian Islands.
21	13 53 49**			Off south coast of El Salvador. Felt at San Salvador.
21	17 12 30*	17-1/2 S.	179 W.	Fiji Islands. h about 600 km.
22	03 47 50**			Kermadec Islands region.
22	04 40 53*	6 S.	151-1/2 E.	New Britain.
22	17 21 53*	54 N.	162 W.	South of Alaska Peninsula. Mag. 6.
23	03 31 40*	42-1/2 N.	144-1/2 E.	Off east coast of Hokkaido, Japan. Felt. Mag. 6-1/2 - 6-3/4.
24	00 22 30*	3-1/2 N.	79 W.	Off coast of Colombia.
24	23 24 37*	51-1/2 N.	160 E.	Off southeast coast of Kamchatka.
25	08 29 58*	17 S.	175 E.	Fiji Islands. Mag. 6 - 6-1/4.
25	08 38 56*	17 S.	175 E.	Fiji Islands aftershock.
25	09 08 30**			Lower California. Mag. 4.9.
25	17 02 15**			About 300 miles off coast of Guerrero, Mexico.
26	03 00 03**			Northern Italy. Felt at Borgo S. Lorenzo and Firenzuola.
26	05 43 17*	21-1/2 S.	71 W.	Off coast of Northern Chile. h about 100 km.
26	07 41 52*	16-1/2 S.	174 E.	Fiji Islands aftershock. Mag. 6.
26	11 38 42*	37 N.	140 E.	Central Honshu, Japan. Felt. h about 100 km.
26	14 52 19*	51 N.	143 E.	Northern Sakhalin.
26	16 59 05**			Northern Kurile Islands.
28	06 35 34*	13-1/2 N.	150 E.	Marianas Islands. h about 60 km.
28	14 54 30**			Kermadec Islands.
29	00 08 28**			Fox Islands, Aleutian Islands. Felt in Unalaska.
29	21 52 31*	6-1/2 S.	51-1/2 E.	Amirante Islands, Indian Ocean.

Date and Station		Phase (GCT) h m s
Apr. 1		
HH	e(P)	01 55 05
Apr. 1		
HH	eP	02 32 55
Apr. 1		
BOZ	eP	04 55 43
	e	56 11
HH	iP	04 55 38
Apr. 1		
COL	eP'	06 54 09
	iPP	54 42
EUR	eP'	06 56 18
	i	56 35
HH	eP'	06 56 05
	ePP	57 44
TUC	ePKS	07 00 09
Apr. 1		
HH	e(P)	09 02 38
Apr. 1		
EUR	eP	10 40 50
	i	41 10
	i	41 19
Apr. 1		
EUR	e(P)	11 07 38
HH	e(P)	11 05 09
TUC	eP	11 07 10
Apr. 1		
BC	eP	11 40 01
	i	40 07
	i(S)	40 48
	iL	41 43
Apr. 1		
EUR	eP	12 15 35
HH	eP	12 16 36
Apr. 1		
COL	iP	12 22 40
EUR	eP	12 26 23
	i	26 40
HH	eP	12 25 52
Apr. 1		
BOZ	eP	12 47 54
	esP	48 51
COL	iP	12 44 33
	epP	45 05
EUR	iP	12 48 02
	ipP	48 36

Date and Station		Phase (GCT) h m s
HH	eP	12 47 31
	esP	48 22
Apr. 1		
COL	iP	13 17 23
EUR	iP	13 17 43
HH	eP	13 18 01
Apr. 1		
EUR	iP	16 57 02
Apr. 1		
COL	eP	19 32 20
HH	e(P)	19 31 53
Apr. 1		
HH	e(P)	20 16 18
Apr. 1		
BOZ	eP	20 56 19
	e	57 26
BUT	eP	20 56 33
	iP	56 34
HH	eP	20 57 19
	e(S)	58 11
	eL	58 30
Apr. 1		
HH	e(P)	22 26 48
Apr. 2		
COL	iP	01 00 25
Apr. 2		
BC	e(P)	03 03 26
Apr. 2		
COL	eP	05 56 58
Apr. 2		
BC	eP'	11 09 11
	i	09 24
	ePP	11 41
	ePKS	12 37
BOZ	eP'	11 09 02
	e	09 10
	e	09 30
	ePP	11 03
	eL	55 31
BUT	eP'	11 08 59
	ePP	11 06
	e(SKS)	15 42
	e	23 35
	eSS	28 09
	eSSS	31 37
	eL	42 03
COL	e(P)	11 03 52
	iPP	07 40
COLU	eP'	11 09 26

Date and Station		Phase (GCT) h m s
COLU	ePP	11 13 03
	ePPPS	24 45
	eL	53 32
HH	eP'	11 08 52
	ePP	10 34
SLC	eP'	11 09 09
	ePP	11 20
	ePKS	12 30
SJ	eP'	11 09 55
	i	10 06
	ePP	13 49
TUC	e(P')	11 09 20
	e	09 32
	ePP	12 48
	eL	58 04
WASH	eP'	11 09 31
	iPP	12 17
	ePPPS	24 51
Apr. 2		
COL	iP	11 16 11
	ipP	16 35
HH	e(P)	11 18 42
Apr. 2		
BC	eP	14 09 17
COL	eP	14 14 19
HH	e(P)	14 10 58
TUC	eP	14 08 33
	e	08 53
Apr. 2		
COL	iP	14 27 43
Apr. 2		
UK	iP	14 53 52
	i	53 56
	i(S)	54 04
	i	54 06
	iL	54 13
Apr. 2		
HH	e(P)	16 13 13
Apr. 2		
EUR	iP	19 19 39
Apr. 2		
TUC	e(P)	19 24 07
Apr. 2		
BC	eP	19 48 47
	e	49 08
	eL	50 00
BOZ	e(P)	19 51 06
HH	e(P)	19 51 39

Date and Station		Phase (GCT) h m s
TUC	eP	19 48 38
	e	48 42
	e	48 55
	eL	49 53
Apr. 2		
TUC	e(P)	21 19 50
Apr. 3		
BC	eP'	00 51 06
EUR	iP'	00 51 03
HH	iP'	00 50 56
TUC	ePP	00 54 26
Apr. 3		
COL	eP	02 22 31
COLU	eP	02 27 33
Apr. 3		
SJ	iP	05 11 48
	i(S)	12 20
	iL	12 28
Apr. 3		
SJ	iP	11 15 51
	i(S)	16 22
	iL	16 39
Apr. 3		
BC	e(P)	12 08 24
EUR	iP	12 08 39
	i	08 55
HH	eP	12 09 09
Apr. 3		
COL	iP	15 49 26
EUR	iP	15 52 26
HH	eP	15 52 01
Apr. 3		
EUR	iP	16 48 44
Apr. 3		
HH	e(P)	18 11 47
Apr. 3		
COL	iP	21 08 49
HH	eP	21 11 10
Apr. 4		
COL	eP	00 32 36
EUR	eP	00 36 32
HH	eP	00 35 15
Apr. 4		
COL	eP	02 00 03

Date and Station		Phase	(GCT) h m s
EUR	eP		02 03 27
Apr. 4			
EUR	eP		02 06 42
Apr. 4			
EUR	eP		05 34 50
Apr. 4			
BC	eP		07 39 54
	e		40 01
	eL		40 53
EUR	eP		07 40 25
TUC	eP		07 39 30
	e		39 44
	eL		40 36
Apr. 4			
BC	eP		08 47 50
BOZ	e(P)		08 48 33
EUR	iP		08 48 15
TUC	eP		08 47 05
Apr. 4			
EUR	eP		14 17 58
Apr. 4			
BC	eP		15 00 51
	eL		01 51
TUC	e(P)		15 00 51
	eL		01 34
Apr. 4			
HH	e(P)		17 06 37
Apr. 4			
HH	e(P)		17 25 10
Apr. 4			
COL	eP		18 31 34
Apr. 4			
HH	e(P)		21 40 29
Apr. 4			
COL	iP		22 20 17
HH	eP		22 19 29
Apr. 4			
HH	e(P)		22 26 12
Apr. 5			
EUR	iP		01 16 22
Apr. 5			
COL	eP		01 28 48
Apr. 5			
BC	iP		03 52 12
	iL		52 28

Date and Station		Phase	(GCT) h m s
Apr. 5			
BC	iP		04 12 09
	e		12 24
BOZ	eP		04 11 36
COL	iP		04 08 02
EUR	iP		04 11 47
HH	eP		04 11 11
	iPcP		12 22
TUC	iP		04 12 41
Apr. 5			
BC	eP		04 31 06
EUR	iP		04 30 31
	i		31 05
	iL		32 05
HH	e(P)		04 31 59
TUC	eP		04 32 11
	eL		35 04
UK	iP		04 29 29
	iS		29 39
Apr. 5			
EUR	iP		04 30 52
UK	iP		04 29 48
Apr. 5			
HH	e(P)		04 51 31
Apr. 5			
COL	iP		08 00 09
	ipP		00 34
EUR	eP		08 01 19
SJ	eP'		08 07 13
Apr. 5			
COL	iP		09 24 13
	iS		24 50
	iL		24 57
Apr. 5			
COL	e(P)		13 30 37
	e		31 08
Apr. 5			
HH	eP		13 41 19
Apr. 5			
COL	iP		17 10 36
Apr. 5			
BC	eP		17 29 18
COL	eP		17 25 26
	iP		25 28
EUR	iP		17 28 55
	i		29 10

Date and Station		Phase	(GCT) h m s
EUR	i		17 29 32
Apr. 5			
HH	iP		17 28 24
	i		28 41
	e		29 11
SLC	eP		17 29 09
SJ	iP		17 33 34
Apr. 5			
COL	i(P)		17 33 11
HH	e(P)		17 32 10
	e		36 54
Apr. 6			
HH	e(P)		00 36 42
Apr. 6			
EUR	iP		00 42 04
	iS		42 26
	iL		42 37
Apr. 6			
TUC	eP		02 59 43
	e		59 58
Apr. 6			
HH	e(P)		03 03 13
TUC	eP		03 00 48
Apr. 6			
BC	iP		07 25 35
	i		25 43
	e		27 03
	eP'		29 37
	iPP		30 05
	ePKKP		40 54
BOZ	iP		07 24 52
	esP		26 11
	eP'		28 40
	eSP		37 23
	eP'P'		49 37
BUT	iP		07 24 51
	e		25 04
	epP		25 30
	i		28 03
	eP'		28 25
	iPP		28 46
	i		30 15
	ePPP		30 48
	iSKS		35 05
	eS		35 54
	i(pS)		36 36
	isS		37 11
	ePPS		38 33
	eL		52 26
CHI	ePP		07 29 06
	eSKS		35 11
	eS		36 06
	e		36 46
	ePS		37 46
	ePPS		38 42

Date and Station		Phase	(GCT) h m s
CHI	e		07 39 09
	e		42 41
	eSS		43 52
	eL		52 34
COL	iP		07 22 54
	ipP		23 39
	isP		24 13
	iPP		25 45
	ipPP		26 41
	ePPP		27 36
	i		28 28
	eS		32 11
	isS		33 13
	esPS		34 10
	eSS		37 15
	eSSS		40 46
	eL		42 17
	i(P'P')		49 46
	e		52 56
	iSKPP'		53 32
EUR	iP		07 25 19
	e		27 52
	eP'		28 41
	iPP		29 34
	iPKKP		41 04
	i		41 25
	iP'P'		49 22
HH	iP		07 24 39
	ipP		25 29
	eP'		27 45
	ePP		28 28
	ePPP		30 37
	iSKS		34 53
	e		36 17
	iPKKP		41 28
	eP'P'		49 37
SLC	eP		07 25 14
	e		28 19
	ePP		29 12
TUC	e(P)		07 25 53
	e		26 03
	eP'		29 28
	iP'		29 48
	iPP		30 33
	ePPP		33 06
	i		36 11
	iPKKP		40 41
	e		40 51
	eP'P'		48 51
	e		49 06
WASH	e(P)		07 24 53
	e		28 07
	eP'		28 49
	iPP		28 57
	e		30 43
	iPPP		31 05
	e		32 15
	eSPP		38 17
	e		39 13
Apr. 6			
COL	iP		11 43 03

Date and Station		Phase (GCT)
		h m s
EUR	eP	11 44 03
Apr. 6		
COL	iP	13 02 02
Apr. 6		
BC	eP	16 40 26
	epP	41 18
COL	iP	16 40 09
	i	40 56
	ipP	41 00
EUR	iP	16 40 26
	ipP	41 17
HH	e(P)	16 40 43
	epP	41 40
Apr. 6		
HH	e(P)	21 49 23
Apr. 7		
BC	iP	00 02 45
	iL	09 25
BOZ	iP	00 04 19
	eL	13 05
BUT	eP	00 04 22
	eL	13 21
COL	iP	00 07 52
EUR	iP	00 03 26
HH	iP	00 04 44
PHIL	e(S)	00 11 02
	eL	17 46
RC	eP	00 04 12
	e(S)	09 14
	eL	11 59
SLC	iP	00 03 31
	eS	07 38
	eL	10 09
SJ	eP	00 06 26
TUC	iP	00 01 47
	e	02 38
	eL	04 48
Apr. 7		
EUR	iP	02 02 42
TUC	eP	02 02 38
Apr. 7		
COL	iP	02 32 20
	iS	32 36
	iL	32 48
Apr. 7		
COL	eP	04 42 00

Date and Station		Phase (GCT)
		h m s
Apr. 7		
COL	eP	04 55 10
HH	e(P)	04 57 14
	e	57 30
TUC	eP	04 57 36
Apr. 7		
COL	iP	06 51 17
Apr. 7		
COL	iP	07 12 56
	ipP	13 24
Apr. 7		
BC	eP	08 38 03
EUR	iP	08 38 28
TUC	eP	08 37 18
	i	38 24
Apr. 7		
COL	iP	08 42 19
	e	42 55
Apr. 7		
BC	eP	11 13 52
EUR	iP	11 13 49
Apr. 7		
EUR	eP	17 05 43
HH	e(P)	17 06 29
Apr. 7		
BC	iP	18 13 29
	epP	14 50
	epPP	18 15
	e	22 05
EUR	iP	18 13 34
	epP	14 55
	e	15 52
HH	e(P)	18 14 13
	ePP	18 11
SLC	eP	18 13 51
	e(pP)	14 51
TUC	iP	18 13 30
	e	14 08
	e	15 36
	epPP	18 20
	ePPS	27 05
	eL	49 18
UK	eP	18 13 14
	e	14 02
Apr. 7		
EUR	eP	18 58 34
Apr. 7		
BC	eP	19 27 58

Date and Station		Phase (GCT)
		h m s
BOZ	eP	19 28 45
EUR	iP	19 28 16
HH	eP	19 29 01
TUC	eP	19 27 30
Apr. 7		
COL	iP	21 41 17
Apr. 8		
COL	iP	02 51 57
Apr. 8		
COL	iP	06 48 54
	iS	49 41
Apr. 8		
BC	e(P)	08 01 23
COL	eP	08 01 57
EUR	eP	08 01 23
TUC	eP	08 01 24
Apr. 8		
EUR	eP	08 18 09
HH	e(P)	08 18 29
TUC	eP	08 18 07
Apr. 8		
COL	iP	09 19 45
	i	19 54
HH	e(P)	09 18 57
Apr. 8		
BC	eP	10 45 19
	i	45 21
COL	iP	10 45 54
EUR	iP	10 45 25
TUC	eP	10 45 22
Apr. 8		
COL	iP	11 57 09
Apr. 8		
COL	iP	13 36 24
Apr. 8		
HH	eP	13 54 10
Apr. 8		
COL	e(P)	19 30 56
Apr. 8		
COL	eP	20 36 03
Apr. 8		
COL	e(P)	20 59 10
	e	59 31

Date and Station		Phase (GCT)
		h m s
Apr. 8		
HH	eP	22 29 38
	e(S)	30 55
	eL	31 09
Apr. 8		
HH	i(P)	22 48 30
Apr. 9		
BC	eP	04 43 34
	e	43 44
	i	43 52
	iL	44 42
BOZ	e(P)	04 44 41
	e(S)	45 54
	e	46 49
BUT	e	04 44 55
	eL	46 11
EUR	iP	04 42 54
HH	e(P)	04 44 59
	eL	47 25
SLC	eP	04 43 45
	e	44 03
	iL	45 13
TUC	e(P)	04 44 51
	e	45 22
	iL	47 17
Apr. 9		
HH	e(P)	11 11 56
Apr. 9		
BOZ	eP	15 34 19
COL	iP	15 30 59
	ipP	31 30
	e	31 53
EUR	iP	15 34 23
	i	34 37
HH	eP	15 33 53
Apr. 9		
BC	eP	16 21 40
	i	21 56
	e	24 41
EUR	iP	16 22 05
HH	e(P)	16 22 55
SLC	eP	16 21 55
TUC	e(P)	16 21 11
	e	22 07
Apr. 9		
COL	iP	16 55 56
	ipP	56 31
	i	56 51

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Date and Station		Phase (GCT) h m s
Apr. 9		
EUR	iP	17 09 19
HH	iP	17 08 49
Apr. 9		
EUR	eP	17 24 41
	i	25 06
HH	iP	17 24 40
Apr. 9		
COL	iP	17 56 12
EUR	iP	17 59 55
Apr. 9		
BC	eP	18 18 33
EUR	iP	18 18 37
	e	18 57
HH	e(P)	18 19 10
Apr. 9		
COL	iP	19 22 59
	iS	24 04
	iL	24 23
HH	eP	19 27 05
	e	27 25
Apr. 9		
EUR	iP	20 34 20
	iS	34 43
Apr. 9		
BC	iP	22 29 31
	i	29 48
BOZ	e(P)	22 29 51
EUR	iP	22 29 29
HH	eP	22 29 42
SLC	eP	22 29 45
Apr. 10		
EUR	eP	11 23 59
Apr. 10		
EUR	iP	11 27 02
Apr. 10		
BC	eP'	13 35 01
	i	35 11
	ipP'	35 46
	ePP	37 33
	i	38 22
BOZ	eP'	13 35 01
	iP'	35 02
	epP'	35 34
	ePP	37 14
BUT	iP'	13 34 59

Date and Station		Phase (GCT) h m s
COL	eP	13 29 45
	epP	30 18
	i	31 13
	iPP	33 35
	i	33 56
	ipPP	34 21
COLU	eP'	13 35 36
	ipP'	36 15
EUR	eP'	13 34 52
	iP'	35 02
	ipP'	35 34
	iPKS	38 10
	i	38 14
HH	eP'	13 34 51
	iP'	34 52
	ipP'	35 26
	iPP	36 46
	epPP	37 18
	e	38 01
	iPKKP	44 35
	e	47 16
	eSKKP	48 22
SLC	eP'	13 35 06
	ePP	37 28
	iPKS	38 18
	e	38 36
	e	39 08
	eSKKP	47 59
SJ	iP'	13 35 52
	ipP'	36 29
	i	37 11
	ePP	40 19
	ipPP	40 52
TUC	eP'	13 35 08
	i	35 21
	e	35 53
	ePP	38 02
	ipPP	38 37
	e	39 41
	ePPP	41 11
UK	eP'	13 34 54
WASH	iP'	13 35 30
	ipP'	36 01
	ePP	38 54
Apr. 10		
COL	iP	13 45 45
	ipP	46 20
Apr. 10		
TUC	eP	17 22 56
Apr. 10		
COL	eP	20 44 13
Apr. 10		
COL	iP	22 28 55
Apr. 10		
HH	iP	23 21 40
	i(S)	22 04

Date and Station		Phase (GCT) h m s
HH	iL	23 22 06
Apr. 11		
COL	iP	01 56 39
HH	e(P)	01 58 27
Apr. 11		
COL	iP	09 35 21
Apr. 11		
TUC	eP	10 48 08
	i	48 25
	eL	49 35
Apr. 11		
COL	iP	14 45 02
Apr. 11		
COL	iP	15 19 22
EUR	e(P)	15 26 22
	i	26 37
Apr. 11		
EUR	iP	16 39 35
Apr. 11		
EUR	iP	17 33 30
HH	eP	17 33 44
Apr. 11		
COL	eP'	17 54 01
HH	eP'	17 54 29
	e	55 15
Apr. 11		
COL	eP	21 12 10
Apr. 11		
COL	eP	21 17 15
Apr. 11		
HH	e(P)	23 08 00
Apr. 12		
BC	eP	00 32 22
	e	32 46
	iL	33 49
EUR	eP	00 32 29
TUC	eP	00 31 32
	i	31 51
	iL	32 40
Apr. 12		
COL	iP	05 12 29
Apr. 12		
EUR	eP	05 13 37
	i	14 08
Apr. 12		
BC	iP	05 17 28
	ipP	17 45

Date and Station		Phase (GCT) h m s
BOZ	eP	05 17 18
	ipP	17 35
BUT	iP	05 17 27
	ipP	17 45
COLU	eP	05 15 16
	ipP	15 31
EUR	iP	05 17 05
	ipP	17 22
	isP	17 28
HH	iP	05 17 35
	ipP	17 51
	i	18 32
	e	19 38
	e(S)	27 52
SLC	iP	05 16 59
	epP	17 16
	esP	17 21
	ePP	20 04
SJ	iP	05 13 12
	ipP	13 28
	isP	13 33
	iPP	14 56
	ipPP	15 22
TUC	iP	05 16 17
	ipP	16 33
	isP	16 40
	ePP	18 53
	i	20 10
Apr. 12		
COL	e(P)	05 24 05
Apr. 12		
HH	e(P)	07 59 25
Apr. 12		
TUC	e(P)	10 57 22
Apr. 12		
EUR	iP	11 14 26
Apr. 12		
EUR	iP	11 58 09
Apr. 12		
BH	iP	21 12 56
	iS	13 26
HH	e(P)	21 20 40
Apr. 12		
COL	iP	22 46 42
	i	46 48
EUR	eP	22 48 47
HH	eP	22 48 05
Apr. 12		
EUR	eP	23 49 43

Date and Station		Phase (GCT) h m s
HH	e(P)	23 45 20
	e	49 38
Apr. 13		
EUR	iP	00 16 47
Apr. 13		
COL	e(P)	00 56 06
Apr. 13		
TUC	eP	03 22 54
Apr. 13		
BC	iP	04 50 07
	e	50 22
BOZ	iP	04 50 35
	e	51 09
	e	53 23
	ePP	53 40
COLU	iP	04 48 24
EUR	iP	04 50 24
	iPP	53 22
HH	iP	04 50 51
	e	51 40
	ePP	54 11
	eS	05 00 52
SLC	iP	04 50 18
SJ	iP	04 46 12
TUC	iP	04 49 36
Apr. 13		
BOZ	e(P)	07 18 53
	i	19 11
COL	eP	07 18 05
HH	eP	07 18 48
	i	19 05
Apr. 13		
BC	iP	08 05 29
	epP	05 44
	ipP	05 45
BOZ	eP	08 04 57
	epP	05 14
COL	iP	08 01 29
	ipP	01 44
EUR	iP	08 05 08
	ipP	05 23
HH	eP	08 04 34
	epP	04 50
	e	05 34
SLC	iP	08 05 17
	ipP	05 34
TUC	eP	08 06 01
	ipP	06 16

Date and Station		Phase (GCT) h m s
Apr. 13		
COL	iP	08 07 39
Apr. 13		
COL	eP	08 22 11
Apr. 13		
COL	iP	11 37 57
	i	39 09
Apr. 13		
EUR	iP	21 49 52
HH	e(P)	21 49 40
Apr. 13		
COL	iP	23 35 14
Apr. 14		
HH	e(P)	03 45 16
	e	45 33
Apr. 14		
COL	iP	07 01 31
	iS	02 28
	iL	02 40
EUR	eP	07 06 28
HH	iP	07 05 34
Apr. 14		
COL	iP	07 43 14
Apr. 14		
HH	eP	20 39 23
Apr. 14		
COL	iP	21 09 52
	e	10 10
Apr. 15		
COL	eP	03 45 11
Apr. 15		
HH	e(P)	06 48 54
Apr. 15		
COL	iP	12 57 26
Apr. 15		
COL	iP	13 07 17
Apr. 15		
COL	eP	13 55 48
Apr. 15		
COL	eP	14 51 24
Apr. 15		
COL	iP	20 25 44
	i	26 00
HH	eP	20 24 55
Apr. 15		
TUC	eP	21 36 54

Date and Station		Phase (GCT) h m s
Apr. 15		
EUR	eP	22 50 14
Apr. 15		
EUR	eP	22 53 07
Apr. 15		
COL	iP	23 42 34
	i	42 45
Apr. 15		
EUR	iP	23 49 20
TUC	e(P)	23 49 23
Apr. 16		
BC	iP	01 52 24
BOZ	iP	01 51 46
BUT	i(P)	01 51 39
COL	iP	01 48 07
EUR	iP	01 51 59
HH	iP	01 51 22
	iPcP	52 43
SLC	iP	01 52 10
TUC	iP	01 52 52
Apr. 16		
COL	iP	07 05 04
EUR	iP	07 08 49
Apr. 16		
EUR	eP	07 19 42
Apr. 16		
COL	eP	09 35 18
EUR	eP	09 38 39
Apr. 16		
BC	eP'	11 06 02
	ePP	08 25
	iSKS	09 24
	iPKS	09 52
BOZ	iP'	11 05 53
COL	eP	11 00 36
	iPP	04 45
COLU	iP'	11 06 35
EUR	iP'	11 05 55
	i	06 12
	ePP	08 05
	iSKP	09 13
	iPKS	09 36
HH	iP'	11 05 46
	ePP	07 42

Date and Station		Phase (GCT) h m s
SLC	eP'	11 06 02
	e	06 21
	eSKP	09 20
	ePKS	09 45
TUC	eP'	11 06 03
	e	06 13
	iSKP	09 40
	ePKS	10 04
Apr. 16		
COL	iP	14 24 12
EUR	eP	14 27 44
Apr. 16		
EUR	iP	19 15 44
HH	e(P)	19 16 29
Apr. 16		
COL	iP	20 45 28
	i	45 34
EUR	iP	20 46 11
HH	e(P)	20 47 10
Apr. 16		
BC	eP	20 56 37
BOZ	eP	20 57 49
EUR	iP	20 57 07
HH	eP	20 58 08
SLC	eP	20 57 11
TUC	iP	20 56 06
	ePP	57 30
	iL	21 06 43
Apr. 17		
BOZ	eP	02 53 44
COL	eP	02 51 40
HH	iP	02 53 30
Apr. 17		
COL	iP	07 30 42
Apr. 17		
BC	eP	12 28 04
COL	iP	12 25 12
EUR	iP	12 27 51
	ePP	33 04
HH	iP	12 27 31
Apr. 17		
BH	iP	17 31 06
	iS	31 32

Date and Station		Phase	(GCT) h m s
Apr. 17			
EUR		i(P)	22 30 52
Apr. 18			
COL		iP	02 08 35
		ePcP	09 05
Apr. 18			
EUR		eP	09 44 04
Apr. 18			
BC		iP	11 08 46
		i	08 51
		eS	15 44
BOZ		eP	11 08 16
		i	08 19
		eL	20 10
COL		iP	11 04 51
		i	04 54
		iS	08 39
		iL	09 50
COLU		eP	11 11 18
		eS	20 10
		esS	21 25
		eL	31 48
EUR		iP	11 08 22
		i	08 32
		i	09 11
		i	10 12
HONO		eP	11 07 08
		iL	15 05
T_L=12 sec. $A_{max.}$=24.4mm.			
HH		eP	11 07 50
		iP	07 53
		e(PP)	09 33
		iPcP	09 59
		iPPP	10 11
		eS	13 46
PHIL		eScS	11 21 05
		eL	29 59
SJ		eP	11 13 12
SLC		eP	11 08 36
		i	08 40
		e(PP)	10 14
		e(S)	15 20
		eL	18 29
WASH		eP	11 11 37
		eL	35 26
Apr. 18			
BC		eP	12 22 21
EUR		eP	12 22 34
Apr. 18			
COL		iP	14 16 50
Apr. 18			
BC		e(P)	15 26 39
		eL	29 04
BOZ		eP	15 28 55
EUR		iP	15 27 30
HH		eP	15 29 16
TUC		eP	15 25 41
		i	25 58
		iL	27 00
Apr. 18			
BC		iP	16 10 50
BOZ		eP	16 11 21
		epP	11 36
EUR		iP	16 11 08
		ipP	11 22
HH		iP	16 11 38
		epP	11 52
SJ		iP	16 07 25
		epP	07 38
Apr. 18			
BC		eP	18 03 40
BOZ		eP	18 03 14
COL		iP	17 59 45
		i	59 50
EUR		iP	18 03 16
HH		eP	18 02 48
		ePcP	04 50
		e	05 15
TUC		eP	18 04 17
Apr. 18			
COL		iP	19 44 35
		i	45 35
Apr. 19			
COL		iP	02 31 15
Apr. 19			
EUR		iP	11 34 41
Apr. 19			
COL		iP	11 45 26
Apr. 19			
COL		eP	17 22 42
EUR		iP'	17 28 17
Apr. 19			
COL		eP	18 50 33
Apr. 20			
EUR		eP	02 43 18
Apr. 20			
BOZ		eP	04 52 26
EUR		iP	04 52 22
HH		e(P)	04 52 07
RC		e(P)	04 52 54
Apr. 20			
COL		iP	14 24 12
		ipP	24 48
EUR		iP	14 23 42
HH		eP	14 24 13
Apr. 20			
EUR		iP	15 15 19
Apr. 20			
BC		iP'	15 34 29
		ePP	35 28
		ePKKP	45 11
BOZ		iP	15 34 30
		i(PPP)	37 51
		ePKKP	45 04
COL		iP	15 29 01
		ePP	32 04
		e	38 40
		e	39 54
		iPKKP	46 07
		ipPKKP	46 45
COLU		eP'	15 35 11
		ePP	38 39
EUR		iP'	15 34 16
		iPP	37 47
		iPKKP	45 09
HH		eP	15 30 30
		iP'	34 24
		i	34 28
		ePP	35 13
		e	37 44
		iPKKP	45 11
RC		iP'	15 34 35
		ePP	36 13
		e	44 42
SLC		iP'	15 34 32
		e	35 39
		e(PKKP)	45 00
SJ		iP'	15 35 46
		i(pP')	36 32
		ePP	40 06
TUC		eP'	15 34 37
		ePP	35 56
WASH		iP'	15 35 20
		iPP	38 41
Apr. 20			
BC		eP'	16 56 59
		iP'	57 26
		ePP	17 01 01
BOZ		iP'	16 56 45
BOZ		ePP	17 00 06
EUR		eP'	16 56 54
		i	56 59
		iP'	57 06
		iPP	17 00 41
HH		eP'	16 56 39
		e	59 47
RC		iP'	16 56 46
		ePP	17 00 12
UK		eP'	16 57 00
Apr. 20			
COL		iP	17 04 11
Apr. 20			
EUR		eP	21 57 51
		e	58 23
Apr. 20			
HH		i(P)	22 53 49
Apr. 21			
BC		eP	00 16 44
COL		iP	00 15 47
EUR		iP	00 16 41
HH		e(P)	00 16 50
SJ		eP'	00 22 40
		i	22 50
Apr. 21			
HH		e(P)	00 29 18
Apr. 21			
COL		eP	01 36 38
HH		eP	01 38 40
Apr. 21			
BC		eP	07 47 08
COL		eP	07 42 51
EUR		iP	07 46 44
HH		eP	07 46 06
Apr. 21			
BC		eP	07 59 42
		i	59 49
BOZ		eP	07 59 15
COL		eP	07 55 51
		iP	55 57
EUR		iP	07 59 18
HH		iP	07 58 48
		i	59 07
		iPcP	08 00 53

Date and Station		Phase (GCT)
		h m s
SLC	eP	07 59 33
SJ	eP	08 04 05
TUC	iP	08 00 19
	i	00 26
Apr. 21		
EUR	iP	10 30 40
Apr. 21		
HH	e(P)	12 30 09
Apr. 21		
HH	eP	12 38 17
Apr. 21		
HH	eP	13 48 03
Apr. 21		
BC	eP	14 00 38
BOZ	iP	14 01 20
	e	01 37
COL	eP	14 04 41
COLU	eP	13 58 56
	iPP	59 15
EUR	iP	14 01 02
	i	01 22
	i(PP)	02 05
HH	iP	14 01 46
SLC	eP	14 00 50
	e	01 07
SJ	eP	13 58 53
TUC	eP	14 00 06
Apr. 21		
EUR	iP	14 07 06
HH	e(P)	14 07 25
TUC	e(P)	14 06 42
Apr. 21		
BC	iP	17 23 46
BOZ	eP	17 24 23
	epP	26 31
COL	iP	17 24 09
EUR	iP	17 23 50
HH	iP	17 24 17
	e	27 50
SLC	e(P)	17 24 08
TUC	iP	17 23 52
Apr. 22		
EUR	iP	01 36 31

Date and Station		Phase (GCT)
		h m s
Apr. 22		
BC	eP	04 00 46
	e	01 16
COL	eP	04 01 21
EUR	iP	04 00 52
HH	e(P)	04 02 49
TUC	iP	04 00 48
	e	01 06
Apr. 22		
BC	iP	04 19 37
EUR	iP	04 20 16
TUC	eP	04 18 38
Apr. 22		
COLU	eP	04 52 11
TUC	eP	04 53 18
Apr. 22		
BC	iP	04 54 28
	ePP	58 17
COL	iP	04 53 20
EUR	iP	04 54 22
HONO	iP	04 50 42
	i	50 49
HH	eP	04 54 30
SJ	eP'	05 00 29
	ePP	04 05
TUC	eP	04 54 42
	iPP	58 44
	eL	05 26 05
Apr. 22		
BH	eP	06 36 53
Apr. 22		
EUR	eP	11 24 09
Apr. 22		
COL	iP	11 53 22
HH	eP	11 57 49
Apr. 22		
TUC	e(P)	12 14 55
Apr. 22		
EUR	iP	13 16 47
Apr. 22		
BC	eP	17 29 03
	eS	34 39
BOZ	iP	17 28 33
	e(PcP)	31 26
	eS	33 51

Date and Station		Phase (GCT)
		h m s
BOZ	eL	17 35 53
CHI	e(PP)	17 32 41
	eS	37 40
	eScS	40 28
	eL	43 41
COL	eP	17 24 56
	iP	24 59
	eS	27 12
	e	27 50
	iL	28 40
COLU	eP	17 31 48
	eS	39 41
	iScS	41 34
	e(SS)	44 30
	eL	47 16
EUR	iP	17 28 36
	eS	34 59
HONO	eP	17 28 25
	eL	35 14
HH	eP	17 28 03
	e(PP)	29 29
	e	29 47
	e(PcP)	31 07
	eL	34 46
PHIL	iS	17 39 36
	eL	48 18
RC	iP	17 29 20
	ePP	30 56
	eS	35 12
	eL	39 40
SLC	eP	17 28 54
	ePP	30 09
	eS	34 20
	eL	36 54
SJ	eP	17 33 57
	eS	43 50
	iS	43 51
	eSS	49 00
	eL	54 20
SIT	iP	17 25 28
	iS	28 18
	iL	29 28
TUC	eP	17 29 44
	i	29 56
	e	30 24
	ePcP	31 58
	eS	36 10
	eL	40 25
WASH	eP	17 31 40
	ePcP	32 13
	eS	39 49
	eL	47 21
Apr. 22		
EUR	iP	17 56 03

Date and Station		Phase (GCT)
		h m s
Apr. 22		
COL	eP	20 28 31
Apr. 22		
HH	i(P)	20 35 38
Apr. 22		
EUR	iP	01 20 50
Apr. 23		
BC	iP	03 43 12
	e	45 19
BOZ	iP	03 42 47
	ePP	45 28
	iS	51 51
	eL	04 03 09
	iP'P'	10 52
CHI	eS	03 54 20
	eSS	59 57
	eL	04 11 17
COL	iP	03 39 39
	i	39 57
	i	40 40
	e	41 51
	iS	46 02
	i	47 01
COLU	eP	03 44 52
	eSKS	55 22
	eS	55 54
	eSSS	04 05 30
	eL	15 30
EUR	iP	03 42 53
HONO	eP	03 41 06
	eL	55 08
HH	iP	03 42 26
	i	42 39
	i	43 20
	e(PP)	45 12
	eS	51 10
	eP'P'	04 10 59
PHIL	eSKS	03 55 12
	iS	55 36
	eL	04 16 04
RC	iP	03 43 17
	i	43 30
	eS	52 50
	i	53 12
SLC	eP	03 43 04
	e	43 15
	eS	52 21
	eL	04 06.11
SJ	eS	03 58 45
	e(PS)	04 00 45
	eSS	06 38
	eL	29 30

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Date and Station		Phase	(GCT)
			h m s
SIT	eP		03 40 37
	iS		47 50
	i		48 14
	eScS		50 27
	eL		54 12
TUC	iP		03 43 40
	i		43 52
	iS		53 34
	eL		04 04 46
WASH	eP		03 44 40
	ePP		48 16
Apr. 23			
HH	e(P)		04 40 49
	e		41 22
TUC	eP		04 39 32
Apr. 23			
TUC	eP		04 53 08
Apr. 23			
EUR	iP		06 41 35
Apr. 23			
HH	eP		07 19 13
Apr. 23			
BC	eP'		08 46 55
BOZ	eP'		08 47 03
COL	eP'		08 47 47
	i		47 56
	i		48 06
EUR	eP'		08 47 02
	i		47 09
	iPP		49 04
HH	eP'		08 47 07
	ePP		49 28
RC	e(P')		08 47 50
	e		47 58
SLC	eP'		08 46 58
SJ	eP		08 40 04
	i		40 28
	e		45 16
	e(S)		50 42
	e		51 18
	eL		09 08 23
TUC	eP'		08 46 47
Apr. 23			
EUR	iP		14 04 29
Apr. 23			
EUR	eP		14 09 35
Apr. 23			
BC	eP		14 18 39
	eL		19 58

Date and Station		Phase	(GCT)
			h m s
TUC	eP		14 18 34
	e		18 49
	e(S)		19 26
	eL		19 48
Apr. 23			
EUR	iP		15 03 31
	iS		03 55
	iL		04 02
Apr. 23			
COL	iP		15 12 47
Apr. 23			
HH	i(P)		20 40 14
Apr. 23			
COL	iP		21 23 50
HH	eP		21 22 44
Apr. 24			
TUC	eP		00 16 27
	e		16 42
	e(S)		17 19
	eL		17 39
Apr. 24			
COL	e(P)		00 34 34
COLU	e(P)		00 28 53
EUR	eP		00 31 19
HH	eP		00 31 59
RC	eP		00 30 59
SJ	eP		00 26 59
	i		27 03
TUC	e(P)		00 30 24
Apr. 24			
COL	iP		05 28 54
HH	e(P)		05 33 18
Apr. 24			
BC	eP		12 33 53
	e		34 12
BOZ	eP		12 34 49
	e		35 07
COLU	e(P)		12 33 11
EUR	iP		12 34 13
HH	e(P)		12 35 01
SLC	e(P)		12 34 32
TUC	e(P)		12 33 28
Apr. 24			
BC	iP		18 39 41
	e		40 10

Date and Station		Phase	(GCT)
			h m s
BOZ	eP		18 41 16
COL	eP		18 45 50
EUR	iP		18 40 22
HH	e(P)		18 41 39
SLC	eP		18 40 26
TUC	iP		18 38 44
	e		40 08
	eL		42 20
Apr. 24			
HH	i(P)		19 11 36
Apr. 24			
COL	eP		22 11 24
Apr. 24			
COL	eP		22 53 47
Apr. 24			
BOZ	eP		23 34 13
BUT	iP		23 34 02
COL	iP		23 30 42
EUR	iP		23 34 22
HH	iP		23 33 48
RC	iP		23 34 49
SLC	eP		23 34 33
TUC	eP		23 35 16
Apr. 25			
COL	eP		04 44 32
Apr. 25			
EUR	eP		04 54 42
TUC	e(P)		04 53 04
Apr. 25			
HH	e(P)		08 12 30
Apr. 25			
BC	iP		08 42 36
BUT	iP		08 43 07
	e		09 09 19
	eL		12 22
COL	eP		08 42 43
	i		42 50
	eS		53 20
	e		56 16
	eL		09 05 32
EUR	iP		08 42 39
HH	iP		08 43 03
RC	eP		08 43 30

Date and Station		Phase	(GCT)
			h m s
SLC	eP		08 42 56
TUC	iP		08 42 44
	eL		09 13 05
Apr. 25			
BC	iP		08 51 35
COL	iP		08 51 39
EUR	iP		08 51 30
HH	e(P)		08 52 01
	i		52 04
RC	eP		08 52 31
SLC	eP		08 51 54
TUC	eP		08 51 44
Apr. 25			
BC	iP		09 09 39
	i		10 06
	i(S)		10 20
	iL		10 43
EUR	iP		09 10 28
	i		11 00
HH	eP		09 12 30
RC	eP		09 12 18
SLC	eP		09 10 55
TUC	eP		09 09 30
	e		09 45
	iL		10 26
Apr. 25			
COL	iP		13 26 14
Apr. 25			
COL	eP		16 20 06
EUR	iP		16 23 33
HH	e(P)		16 23 03
Apr. 25			
BC	iP		17 07 40
BOZ	iP		17 08 51
	e(PP)		10 07
COL	iP		17 12 22
EUR	iP		17 08 12
HH	iP		17 09 18
SLC	eP		17 08 10
TUC	eP		17 06 49
	e(S)		10 08
	e		10 34
	eL		12 14

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Date and Station		Phase (GCT)
		h m s
SLC	eP	07 59 33
SJ	eP	08 04 05
TUC	iP	08 00 19
	i	00 26
Apr. 21		
EUR	iP	10 30 40
Apr. 21		
HH	e(P)	12 30 09
Apr. 21		
HH	eP	12 38 17
Apr. 21		
HH	eP	13 48 03
Apr. 21		
BC	eP	14 00 38
BOZ	iP	14 01 20
	e	01 37
COL	eP	14 04 41
COLU	eP	13 58 56
	iPP	59 15
EUR	iP	14 01 02
	i	01 22
	i(PP)	02 05
HH	iP	14 01 46
SLC	eP	14 00 50
	e	01 07
SJ	eP	13 58 53
TUC	eP	14 00 06
Apr. 21		
EUR	iP	14 07 06
HH	e(P)	14 07 25
TUC	e(P)	14 06 42
Apr. 21		
BC	iP	17 23 46
BOZ	eP	17 24 23
	epP	26 31
COL	iP	17 24 09
EUR	iP	17 23 50
HH	iP	17 24 17
	e	27 50
SLC	e(P)	17 24 08
TUC	iP	17 23 52
Apr. 22		
EUR	iP	01 36 31

Date and Station		Phase (GCT)
		h m s
Apr. 22		
BC	eP	04 00 46
	e	01 16
COL	eP	04 01 21
EUR	iP	04 00 52
HH	e(P)	04 02 49
TUC	iP	04 00 48
	e	01 06
Apr. 22		
BC	iP	04 19 37
EUR	iP	04 20 16
TUC	eP	04 18 38
Apr. 22		
COLU	eP	04 52 11
TUC	eP	04 53 18
Apr. 22		
BC	iP	04 54 28
	ePP	58 17
COL	iP	04 53 20
EUR	iP	04 54 22
HONO	iP	04 50 42
	i	50 49
HH	eP	04 54 30
SJ	eP'	05 00 29
	ePP	04 05
TUC	eP	04 54 42
	iPP	58 44
	eL	05 26 05
Apr. 22		
BH	eP	06 36 53
Apr. 22		
EUR	eP	11 24 09
Apr. 22		
COL	iP	11 53 22
HH	eP	11 57 49
Apr. 22		
TUC	e(P)	12 14 55
Apr. 22		
EUR	iP	13 16 47
Apr. 22		
BC	eP	17 29 03
	eS	34 39
BOZ	iP	17 28 33
	e(PcP)	31 26
	eS	33 51

Date and Station		Phase (GCT)
		h m s
BOZ	eL	17 35 53
CHI	e(PP)	17 32 41
	eS	37 40
	eScS	40 28
	eL	43 41
COL	eP	17 24 56
	iP	24 59
	eS	27 12
	e	27 50
	iL	28 40
COLU	eP	17 31 48
	eS	39 41
	iScS	41 34
	e(SS)	44 30
	eL	47 16
EUR	iP	17 28 36
	eS	34 59
HONO	eP	17 28 25
	eL	35 14
HH	eP	17 28 03
	e(PP)	29 29
	e	29 47
	e(PcP)	31 07
	eL	34 46
PHIL	iS	17 39 36
	eL	48 18
RC	iP	17 29 20
	ePP	30 56
	eS	35 12
	eL	39 40
SLC	eP	17 28 54
	ePP	30 09
	eS	34 20
	eL	36 54
SJ	eP	17 33 57
	eS	43 50
	iS	43 51
	eSS	49 00
	eL	54 20
SIT	iP	17 25 28
	iS	28 18
	iL	29 28
TUC	eP	17 29 44
	i	29 56
	e	30 24
	ePcP	31 58
	eS	36 10
	eL	40 25
WASH	eP	17 31 40
	ePcP	32 13
	eS	39 49
	eL	47 21
Apr. 22		
EUR	iP	17 56 03

Date and Station		Phase (GCT)
		h m s
Apr. 22		
COL	eP	20 28 31
Apr. 22		
HH	i(P)	20 35 38
Apr. 22		
EUR	iP	01 20 50
Apr. 23		
BC	iP	03 43 12
	e	45 19
BOZ	iP	03 42 47
	ePP	45 28
	iS	51 51
	eL	04 03 09
	iP'P'	10 52
CHI	eS	03 54 20
	eSS	59 57
	eL	04 11 17
COL	iP	03 39 39
	i	39 57
	i	40 40
	e	41 51
	iS	46 02
	i	47 01
COLU	eP	03 44 52
	eSKS	55 22
	eS	55 54
	eSSS	04 05 30
	eL	15 30
EUR	iP	03 42 53
HONO	eP	03 41 06
	eL	55 08
HH	iP	03 42 26
	i	42 39
	i	43 20
	e(PP)	45 12
	eS	51 10
	eP'P'	04 10 59
PHIL	eSKS	03 55 12
	iS	55 36
	eL	04 16 04
RC	iP	03 43 17
	i	43 30
	eS	52 50
	i	53 12
SLC	eP	03 43 04
	e	43 15
	eS	52 21
	eL	04 06.11
SJ	eS	03 58 45
	e(PS)	04 00 45
	eSS	06 38
	eL	29 30

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

Date and Station		Phase (GCT) h m s
Apr. 25		
COL	iP	18 59 57
EUR	iP	18 59 25
HH	eP	18 59 56
Apr. 25		
HH	i(P)	22 29 58
Apr. 26		
HH	e(P)	01 04 56
Apr. 26		
HH	e(P)	01 10 07
Apr. 26		
COL	iP	01 22 30
EUR	iP	01 23 38
HH	eP	01 23 44
Apr. 26		
COL	iP	01 26 05
EUR	eP	01 27 13
HH	eP	01 27 19
Apr. 26		
BC	iP	02 34 54
BOZ	eP	02 35 03
COL	iP	02 38 40
	e	39 34
EUR	iP	02 34 26
HH	eP	02 35 30
RC	eP	02 34 39
SLC	eP	02 34 24
TUC	eP	02 33 00
	e	38 52
	e	39 08
Apr. 26		
COL	e(P)	03 11 28
	e	12 57
HH	e(P)	03 12 46
Apr. 26		
EUR	iP	04 39 00
Apr. 26		
COL	iP	05 17 34
EUR	iP	05 20 26
Apr. 26		
EUR	iP	05 54 46
	epP	55 23
HH	iP	05 55 15

Date and Station		Phase (GCT) h m s
Apr. 26		
BC	iP	07 54 29
BOZ	eP	07 55 02
BUT	eP	07 55 03
	eL	08 04 17
COL	eP	07 54 34
	eS	08 05 09
	eL	16 32
EUR	iP	07 54 31
	i	56 14
HH	eP	07 54 55
RC	eP	07 55 22
	i	55 28
	ePP	59 12
SLC	eP	07 54 49
	eL	08 23 51
TUC	eP	07 54 37
	e	56 26
	e	57 17
	eL	08 21 56
Apr. 26		
HH	e(P)	08 00 18
Apr. 26		
BC	eP	08 06 15
EUR	iP	08 05 48
	i	07 28
HH	e(P)	08 06 21
	e	07 53
Apr. 26		
EUR	iP	10 38 14
Apr. 26		
BC	eP	11 50 37
BOZ	eP	11 50 17
BUT	eP	11 50 14
COL	iP	11 47 26
EUR	iP	11 50 22
HH	iP	11 49 59
	e	50 50
RC	eP	11 50 53
SLC	e(P)	11 50 44
	e	51 01
TUC	eP	11 51 03
Apr. 26		
BC	eP	12 15 20
EUR	iP	12 15 53

Date and Station		Phase (GCT) h m s
HH	e(P)	12 17 03
RC	eP	12 16 04
TUC	eP	12 14 25
Apr. 26		
EUR	iP	13 31 15
Apr. 26		
BC	eP	15 03 31
BOZ	eP	15 02 56
COL	iP	14 59 29
	eL	15 13 42
EUR	iP	15 03 11
HH	eP	15 02 33
RC	eP	15 03 26
Apr. 26		
COL	iP	15 33 12
Apr. 26		
COL	eP	16 32 11
	i	33 12
Apr. 26		
BOZ	eP	17 09 06
	e	09 25
COL	iP	17 05 42
EUR	iP	17 09 16
HH	eP	17 08 41
RC	eP	17 09 42
	eS	18 17
Apr. 26		
COL	iP	21 05 39
Apr. 27		
RC	e(P)	00 30 07
Apr. 27		
BC	eP	01 48 19
Apr. 27		
COL	eP	03 12 08
HH	e(P)	03 11 28
Apr. 27		
BC	eP	06 53 22
BOZ	e(P)	06 54 40
EUR	iP	06 53 52
HH	eP	06 55 06
RC	eP	06 54 33
SLC	e(P)	06 54 02

Date and Station		Phase (GCT) h m s
TUC	e(P)	06 52 15
	e	52 25
	eL	56 12
Apr. 27		
HH	e(P)	07 42 51
	e	43 06
Apr. 27		
COL	iP	17 52 51
	iS	53 24
	iL	53 34
Apr. 27		
HH	e(P)	22 08 59
Apr. 27		
BC	iP	22 40 29
EUR	iP	22 40 05
Apr. 28		
COL	iP	01 53 01
Apr. 28		
TUC	eP	05 49 45
Apr. 28		
BC	iP	06 42 11
	e	42 28
	e	42 36
	e	42 43
	e(S)	43 04
	eL	43 21
EUR	iP	06 43 29
	eL	45 39
Apr. 28		
BC	eP	06 48 33
BUT	iP	06 48 28
COL	iP	06 46 31
	eS	55 30
	eL	07 04 19
EUR	iP	06 48 23
HH	eP	06 48 19
	iP	48 20
	ePP	51 41
RC	e(P)	06 48 58
SLC	eP	06 48 37
TUC	e(P)	06 48 52
	epP	49 12
Apr. 28		
BC	eP	07 00 38
EUR	eP	07 00 52
TUC	eP	07 00 14

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Date and Station		Phase (GCT) h m s
Apr. 28		
BC	iP	07 03 58
	e	04 31
BOZ	iP	07 04 44
	i	05 32
BUT	iP	07 04 56
	ipP	05 43
COL	iP	07 08 19
	i	09 04
COLU	eP	07 02 56
	i	03 01
EUR	iP	07 04 24
HH	iP	07 05 13
	i	07 37
	e	11 11
RC	iP	07 04 10
	e	04 44
SLC	iP	07 04 14
	e	04 57
SJ	iP	07 07 12
TUC	eP	07 03 12
	e	03 41
	e	10 25
	e	11 35
	eL	22 46
Apr. 28		
BC	eP	07 21 06
	e	21 42
COL	iP	07 25 21
EUR	iP	07 21 32
HH	e(P)	07 24 30
Apr. 28		
HH	e(P)	10 13 52
Apr. 28		
BC	iP	15 07 33
COL	eP	15 08 11
EUR	iP	15 07 39
HH	e(PP)	15 12 07
	e	12 43
TUC	iP	15 07 33
	e	07 44
Apr. 28		
EUR	eP	18 04 20
HH	eP	18 04 59
Apr. 28		
HH	e(P)	18 48 37

Date and Station		Phase (GCT) h m s
Apr. 29		
COL	eP	00 11 50
EUR	eP	00 15 32
HH	eP	00 15 02
Apr. 29		
UK	eP	00 24 54
	i	25 07
Apr. 29		
EUR	iP	00 39 25
Apr. 29		
BOZ	eP	04 25 09
	e	25 47
HH	e(P)	04 25 08
RC	eP	04 25 20
	e	25 59
	e	27 24
Apr. 29		
EUR	eP	07 36 52
	eS	37 17
	eL	37 25
Apr. 29		
EUR	iP	20 12 12
	i(S)	15 31
Apr. 29		
BC	iP'	22 12 19
HH	e(PP)	22 14 35
SLC	eP'	22 12 07
TUC	eP'	22 12 21
	i	12 25
Apr. 30		
COL	iP	10 06 45
EUR	eP	10 07 52
Apr. 30		
BOZ	eP	18 13 41
HH	eP	18 13 58
	e	14 18
	e(S)	14 31
	iL	14 41
Apr. 30		
HH	i(P)	20 40 14
Apr. 30		
EUR	iP	21 46 29
Apr. 30		
EUR	iP	22 03 01
	iS	03 22
	iL	03 26

Date and Station	Phase (GCT) h m s

Date and Station	Phase (GCT) h m s

Local and Minor Earthquakes		Local and Minor Earthquakes		Local and Minor Earthquakes		Local and Minor Earthquakes	
day	hour	day	hour	day	hour	day	hour
COL		EUR		TUC		TUC	
Apr.		Apr.		Apr.		Apr.	
2	06.3	8	16.3	3	02.9	23	07.4
	08.0		18.4		05.4		09.1
	22.7		19.4		06.0		13.1
3	07.0	9	11.4		11.1	24	09.8
	22.8		20.7		11.7	25	10.4
4	12.5	11	06.2		12.1		10.4
	19.4	12	08.5	4	09.4		10.5
	23.9		23.7		12.6	26	02.9
5	05.9	14	06.6		14.4		03.5
	09.4	16	15.1		17.4	27	01.8
7	03.0	17	07.6	5	06.9		09.8
	10.2	18	06.7		08.5		11.2
	15.8		20.3		12.3		12.1
9	10.0	19	01.9	6	06.5	28	05.9
	10.5	20	20.4		07.1		06.7
	10.9	22	00.6		12.4		14.2
	17.1		05.9		12.6		21.3
	19.4		19.7	7	05.9		22.8
10	22.5		23.0		06.2	29	01.1
11	16.5	23	15.1		08.8		10.4
	19.8		22.6		13.6	30	04.9
12	08.7	24	20.6	8	04.8		
	16.1	25	08.9		11.5	UK	
13	10.8	27	22.7		21.7	Apr.	
	19.3	29	04.5		23.6	7	16.4
14	07.0		05.2	9	09.5	10	03.3
	09.0		07.6		12.3	11	13.2
15	11.5		08.8	10	02.1	20	20.5
17	19.2		10.7		02.5		
18	10.8		10.8		02.8		
22	10.8		13.0		23.7		
	10.9		13.5	11	21.2		
23	02.7		22.9		23.4		
	08.8	30	22.0		23.6		
	18.4			12	00.6		
	21.9	HONO			11.9		
24	01.7	Apr.			13.5		
	18.5	26	01.5	12	20.1		
	20.1			13	20.0		
25	14.1	SJ		14	11.6		
	19.5	Apr.			17.1		
26	08.5	1	18.9	15	00.9		
	18.5	2	01.8		01.0		
	21.6	3	23.5		01.2		
27	01.0	4	01.6		01.2		
	03.3	5	14.1		01.7		
	21.5	8	09.8		02.1		
	23.7		11.9		06.3		
28	08.4	11	02.7		07.4		
	11.6		09.1		13.5		
	21.3	15	17.3		19.1		
30	19.8	16	11.5	16	03.9		
			17.8		06.4		
EUR		17	06.1		06.5		
Apr.		23	03.6	17	07.7		
4	00.2	25	02.9		07.8		
	01.1		17.6		08.6		
	09.7	29	11.7	19	03.2		
	11.8				06.0		
	23.4	TUC			10.6		
5	03.9	Apr.		20	03.5		
6	00.7	1	00.2	21	00.7		
7	00.8		10.7		03.5		
	00.8		18.1		11.9		
	05.2	2	03.1	22	01.2		
	08.5		03.2		23.1		
8	10.8	3	00.3	23	02.7		