USCGS
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SEISMOLOGICAL BULLETIN

March, 1958

COAST & GEODETIC SURVEY
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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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1958

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
*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
Kipapa, T. H. (KIP)
*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. Beginning January 1, 1958 the data from the horizontal components of the seismographs at all stations except College, Honolulu and Tucson will not be published for earthquakes occurring outside the United States. The horizontal instruments will continue in operation and the seismograms for the local and regional earthquakes will be scaled and the data published.
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. 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, which may be obtained on loan by addressing the Seismograph Station Director, Meteorological and Hydrographic Office, Panama Canal Company, Balboa Heights, Canal Zone.

Date 1958	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Mar.	h m s	°	°	
1	00 13 23*	20 S.	112 W.	Atlantic Ocean, southwest of St. Helena Island.
1	06 23 58*	17 S.	172½ W.	Tonga Islands region.
1	09 05 40*	13½ S.	76½ W.	Near coast of Peru. Felt at Lima.
1	09 26 46*	28 N.	54½ E.	Southern Iran.
1	16 16 01*	17 S.	173 W.	Tonga Islands region. Felt at Apia.
1	17 21 33*	14 N.	89½ W.	El Salvador. Felt. h about 60 km.
2	02 33 40*	21 N.	121 E.	Batan Islands.
3	00 44 47*	15 N.	91½ W.	Guatemala. h about 100 km.
3	04 06 16*	14½ S.	168½ E.	New Hebrides Islands.
3	04 50 44**			Fiji Islands region
3	07 22 42*	23½ N.	122 E.	Near east coast of Formosa.
3	11 04 49*	20 S.	174½ W.	Tonga Islands.
3	16 18 17*	55½ N.	166½ E.	Komandorskie Islands. Mag. 6-1/4 - 6-1/2.
3	16 55 38*	35½ N.	70 E.	Hindu Kush.
3	17 10 55*	55½ N.	166½ E.	Komandorskie Islands.
3	17 13 14*	6 N.	73½ W.	Colombia. h about 150 km.
3	17 32 47*	55½ N.	166 E.	Komandorskie Islands.
4	01 50 09*	½ S.	81 W.	Near coast of Ecuador.
4	11 32 04**			Dodecanese Islands.
4	17 48 35*	27 N.	130 E.	Ryukyu Islands.
5	19 53 28*	52 N.	170½ W.	Fox Islands, Aleutian Islands.
6	03 21 49*	15 S.	175 W.	Fiji Islands region. h about 250 km.
6	05 41 06*	36 N.	23 E.	Near south coast of Greece.
6	11 56 33*	9 N.	126 E.	Near north coast of Mindanao, Philippine Islands.
7	06 55 30*	37 N.	71 E.	Hindu Kush. h about 200 km.
7	08 21 23*	9½ N.	126 E.	Near northeast coast of Mindanao, Philippine Islands.
7	11 29 56*	34½ N.	134 E.	Shikoku, Japan.
7	17 30 38*	20 S.	176 W.	Tonga Islands.
8	20 10 23*	33½ S.	70 W.	Central Chile. Felt at Santiago. h about 100 km.
9	07 23 51*	6½ S.	148 E.	Near north coast of New Guinea.
9	08 07 30*	51½ N.	178½ W.	Andreanof Islands, Aleutian Islands.
9	10 22 25*	34 S.	178½ W.	Kermadec Islands region. h about 60 km. Mag. 6-1/2 - 6-3/4.
9	11 23 19*	2 N.	129 E.	Halmahera Island region.
10	07 58 04*	52½ N.	171½ W.	Fox Islands, Aleutian Islands.
10	17 27 20**			Central Ryukyu Islands.
10	21 31 48*	20 S.	176 W.	Tonga Islands. h about 200 km.
11	00 25 56*	25½ N.	125 E.	Ryukyu Islands. Several killed, many injured on Okinawa. Felt strongly on Ishigaki and Miyako; also felt at Aparri, Basco and Calayan. h about 60 km. Mag. 7.

Date 1958	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Mar.	h m s	°	°	
11	08 47 23*	14½ N.	90½ W.	Guatemala. h about 200 km.
11	13 59 00*	13 S.	167 E.	New Hebrides Islands.
11	14 56 46**			New Britain region.
11	21 38 56*	16 S.	72 W.	Southern Peru.
11	23 53 00*	17 N.	98½ W.	Guerrero, Mexico.
12	00 08 20**			About 150 miles off coast of southern Mexico.
12	12 09 19*	42 N.	119½ W.	Nevada-Oregon-California border region.
12	14 36 33*	20½ N.	146 E.	Mariana Islands.
12	18 16 50*	27 N.	139½ E.	Bonin Islands region. h about 500 km.
13	21 28 40**			New Hebrides Islands.
13	23 49 23*	12½ N.	123½ E.	Masbate Island, Philippine Islands. Felt in central Philippines.
14	00 09 41*	25½ N.	96 E.	Northern Burma.
15	00 24 01*	23 N.	121½ E.	Near east coast of Formosa.
15	06 27 00*	40 N.	20½ E.	Albania-Greece border.
15	08 34 04*	32½ N.	113½ W.	Arizona. Mag. 5.
15	15 33 57*	17½ S.	169 E.	New Hebrides Islands.
15	19 06 10*	5 S.	152 E.	New Britain. Felt Rabaul.
15	20 46 23*	18 N.	64 W.	Lesser Antilles.
16	02 01 54**			Near south coast of Hokkaido, Japan.
17	21 07 24*	8 N.	93½ E.	Nicobar Islands region.
17	21 40 23*	6½ S.	147½ E.	Near northeast coast of New Guinea.
18	22 20 02*	50½ N.	173 W.	Fox Islands foreschock.
19	16 04 03*	47 N.	14½ E.	Austria-Yugoslavia border. Felt in southern Austria. h about 100 km.
20	01 38 04*	51 N.	173 W.	Fox Islands, Aleutian Islands region. Mag. 6-1/2.
20	14 47 05*	10 S.	161 E.	Solomon Islands.
21	14 15 04*	15 N.	92½ W.	Mexico-Guatemala border. h about 150 km.
21	15 29 52*	4½ S.	143 E.	Northern New Guinea.
21	18 32 54*	13½ N.	92½ E.	Andaman Islands.
22	06 18 54**			Kermadec Islands region.
22	10 11 27*	23½ N.	94½ E.	Burma-Pakistan border.
22	11 07 47*	35½ N.	67 E.	Afghanistan.
23	10 14 42*	18 N.	120 E.	Near northwest coast of Luzon, Philippine Islands.
23	20 13 07**			Andreanof Islands, Aleutian Islands.
24	00 55 55*	21 S.	170½ E.	Loyalty Islands region.
24	11 55 40*	18½ N.	120 E.	Near north coast of Luzon, Philippine Islands.
24	14 53 51*	43 N.	146 E.	Near north coast of Hokkaido, Japan.
24	21 46 31*	21½ S.	170½ E.	Loyalty Islands region.
25	08 25 13**			Fiji Islands region.

Date 1958	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Mar.	h m s	°	°	
25	08 59 58**			Blast at Pokrovsk, northern Ural Mountains, U. S. S. R.
25	15 56 49*	21 N.	120 E.	Batan Islands region.
25	18 42 27*	18 N.	64½ W.	Virgin Islands. Felt.
25	19 01 52*	17½ S.	167½ E.	New Hebrides Islands.
25	22 33 45*	3 N.	67 E.	Maldive Islands region.
25	23 51 21**			Strait of Malacca.
26	00 25 49*	11 N.	126 E.	Samar Island, Philippine Islands. Felt at Hinatuan and Surigao. h about 100 km.
27	06 05 51*	14½ N.	93 W.	Near coast of Chiapas, Mexico. h about 150 km.
27	06 35 07*	53 N.	160 E.	Near southeast coast of Kamchatka.
28	00 23 30*	6 S.	153 E.	New Britain region. Felt at Rabaul.
28	04 09 30*	36½ N.	71 E.	Hindu Kush. Felt. h about 200 km.
28	12 06 24*	37 N.	71 E.	Hindu Kush. Felt. h about 200 km.
28	14 45 22*	20½ S.	174 W.	Tonga Islands.
30	14 23 20*	4 N.	77 W.	Near coast of Colombia. Felt at Cali. h about 60 km.
30	17 33 01*	23 S.	179½ E.	Fiji Islands region. h about 550 km.
30	22 36 53*	22 S.	176 W.	Tonga Islands.
31	10 30 56*	17 N.	93½ W.	Chiapas, Mexico. h about 100 km.
31	15 01 30*	52 N.	167½ W.	Fox Islands, Aleutian Islands.
31	16 46 15**			Ionian Sea.
31	17 49 38*	44½ N.	141 E.	Near west coast of Hokkaido, Japan.
31	19 50 37**			Catamarca Province, Argentina.
31	21 09 01*	17½ N.	60 W.	Leeward Islands.

Date and Station		Phase	(GCT) h m s
Mar. 1			
EUR	eP		06 10 10
Mar. 1			
BUT	eP		06 36 26
COL	iP		06 36 30
	e		38 43
HH	eP		06 36 27
TUC	eP		06 35 53
	i		35 55
Mar. 1			
EUR	eP		09 09 06
	iL		10 16
Mar. 1			
BH	iP		09 10 45
	iS		14 50
BOZ	eP		09 16 34
BUT	eP		09 16 40
	e		17 01
COL	iP		09 19 02
	ePP		22 53
COLU	e(P)		09 14 17
	e		14 34
EUR	iP		09 16 20
	i		16 41
	eP'P'		45 02
HH	iP		09 16 54
	e		17 16
RC	iP		09 16 05
	e		16 20
SLC	eP		09 16 12
	ePcP		16 43
SJ	eP		09 12 20
	e		12 32
	i		12 51
TUC	iP		09 15 24
	e		16 31
Mar. 1			
COL	iP		09 39 41
	i		40 25
HH	e(P)		09 40 52
	e		45 02
Mar. 1			
EUR	eP		09 56 25
TUC	e(P)		09 57 26
Mar. 1			
EUR	eP		10 13 02
Mar. 1			
COL	iP		10 46 57
COL	iS		10 47 34
	iL		47 43
Mar. 1			
EUR	iP		15 25 30
HH	eP		15 26 52
TUC	eP		15 26 01
	e		26 15
Mar. 1			
COL	iP		16 28 25
	ipP		28 44
EUR	iP		16 27 52
HONO	e		16 24 13
	eT		17 03 37
	iT		04 11
HH	iP		16 28 24
TUC	eP		16 27 52
	e		28 25
Mar. 1			
COL	eP		17 32 03
COLU	eP		17 26 24
	ipP		26 40
EUR	iP		17 28 21
HH	eP		17 29 05
	e		29 35
	iPcP		31 08
RC	eP		17 29 05
TUC	eP		17 27 17
Mar. 1			
COL	iP		22 39 25
EUR	eP		22 39 01
Mar. 2			
COLU	eP		00 49 34
	e		50 08
Mar. 2			
EUR	eP		01 34 58
Mar. 2			
COL	iP		02 45 06
HH	eP		02 47 08
Mar. 2			
BC	e(P)		03 50 19
EUR	iP		03 50 09
Mar. 2			
EUR	eP		06 20 58
Mar. 2			
HH	e(P)		07 08 41
Mar. 2			
COL	iP		07 54 26
EUR	eP		07 53 30
	ipP		54 17
HH	eP		07 53 03
Mar. 2			
COL	iP		10 31 18
Mar. 2			
BC	eP		11 59 30
EUR	iP		11 59 19
HH	e(P)		12 01 28
SLC	eP		11 59 14
Mar. 2			
COL	iP		15 07 44
	i		07 57
EUR	eP		15 04 51
HH	eP		15 05 28
Mar. 2			
EUR	eP		16 04 25
Mar. 2			
COL	iP		17 23 21
EUR	eP		17 27 35
HH	eP		17 26 43
Mar. 2			
COL	iP		18 20 08
EUR	iP		18 24 24
HH	eP		18 23 30
Mar. 2			
COL	iP		19 41 40
	i		41 46
	e		42 37
	e		46 07
	e		46 47
EUR	iP		19 45 21
HH	eP		19 44 46
RC	eP		19 46 00
TUC	eP		19 46 28
Mar. 2			
EUR	eP		23 21 26
Mar. 3			
BC	eP		00 50 49
	e		51 04
COL	iP		00 55 05
	ipP		55 43
EUR	iP		00 51 16
	iPcP		51 31
HH	eP		00 52 03
	e		52 28
	i		54 14
TUC	e(P)		00 50 06
	eP		50 08
Mar. 3			
BC	eP		04 19 14
COL	iP		04 18 58
EUR	iP		04 19 14
HONO	eT		05 07 29
HH	eP		04 19 33
TUC	eP		04 19 23
Mar. 3			
COL	iP		05 03 13
	ipP		03 37
EUR	eP		05 02 46
TUC	e(P)		05 02 42
	e		03 07
Mar. 3			
EUR	iP		06 20 33
HH	eP		06 21 27
RC	eP		06 21 08
TUC	eP		06 19 47
Mar. 3			
COL	iP		07 08 33
	ipP		08 57
Mar. 3			
BUT	eP		07 36 10
COL	iP		07 33 53
EUR	iP		07 36 21
HH	iP		07 36 00
	ePP		39 48
RC	e(PP)		07 40 43
SIT	iP		07 34 42
Mar. 3			
EUR	iP		07 40 17
TUC	e(P)		07 41 14
Mar. 3			
EUR	iP		10 49 17

Date and Station		Phase (GCT) h m s
HH	eP	10 48 48
Mar. 3		
COL	iP	11 17 37
	ipP	17 56
EUR	iP	11 17 05
HH	e(P)	11 17 36
TUC	eP	11 17 04
Mar. 3		
BOZ	eP	11 49 54
HH	eP	11 50 28
	e(S)	51 10
	eL	51 18
Mar. 3		
HH	e(P)	12 26 47
Mar. 3		
COL	iP	14 00 21
Mar. 3		
BH	iP	16 31 44
BC	eP	16 27 54
	e	30 34
	eS	35 40
BOZ	eP	16 27 17
BUT	eP	16 27 08
	e	27 42
	e	28 31
COL	iP	16 23 35
	iS	27 52
	i	28 28
	iL	30 48
COLU	iP	16 29 54
EUR	iP	16 27 30
	i	28 42
	iPP	29 40
	eP'P'	56 37
	e	57 24
HONO	iP	16 26 21
HH	iP	16 26 51
	i	28 23
	iPP	28 57
	e(P'P')	57 11
RC	iP	16 27 55
	e	28 55
	e	31 19
	eS	35 43
	eScS	37 43
SLC	eP	16 27 40
	e	28 47
SJ	iP	16 31 38
	ePP	35 33

Date and Station		Phase (GCT) h m s
SIT	eP	16 24 45
TUC	iP	16 28 28
	e	28 52
	ePP	30 46
	eS	36 48
	eL	55 14
	eP'P'	57 49
UK	iP	16 27 14
WASH	eP	16 29 40
	e	32 22
	eL	17 01 10
Mar. 3		
COL	eP	16 56 52
Mar. 3		
COL	iP	17 07 05
	ipP	07 56
Mar. 3		
COL	iP	17 16 13
	i	17 32
BC	eP	17 20 30
EUR	iP	17 20 07
HH	eP	17 19 28
	e	21 00
RC	eP	17 20 33
SJ	eP	17 24 16
Mar. 3		
BH	eP	17 14 54
	eS	16 14
EUR	eP	17 22 02
HH	eP	17 22 29
	e	23 06
RC	eP	17 23 24
SJ	eP	17 16 35
TUC	eP	17 21 06
Mar. 3		
BC	eP	17 42 24
	e	42 31
BOZ	eP	17 41 47
BUT	eP	17 41 38
COL	iP	17 38 06
	iS	42 27
	eL	45 40
	iL	45 43
	e(P'P')	18 11 22
COLU	iP	17 44 25
	i	44 33
EUR	iP	17 42 00
	i	43 12

Date and Station		Phase (GCT) h m s
Mar. 3		
HONO	eP	17 40 51
HH	iP	17 41 21
	iPcP	42 53
	e	43 42
	eP'P'	18 12 22
RC	iP	17 42 25
SLC	eP	17 42 10
	e	42 24
SJ	eP	17 46 08
TUC	eP	17 42 58
Mar. 3		
COL	eP	18 27 55
Mar. 3		
COL	iP	19 22 49
EUR	eP	19 19 43
	i	19 57
HH	iP	19 20 31
RC	eP	19 19 37
SJ	eP	19 15 23
TUC	eP	19 19 01
Mar. 3		
BUT	eP	19 39 01
	e	39 19
HH	e(P)	19 36 17
	eS	37 26
	eL	37 34
Mar. 3		
HONO	iP	21 51 56
Mar. 4		
COL	iP	00 02 01
EUR	iP	00 05 30
HH	eP	00 07 16
Mar. 4		
BH	iP	01 52 31
	iS	55 02
BC	eP	01 58 52
COLU	eP	01 56 58
EUR	iP	01 59 15
HH	iP	01 59 54
RC	eP	01 58 56
SLC	eP	01 59 05
SJ	iP	01 55 23

Date and Station		Phase (GCT) h m s
TUC	eP	01 58 13
	e	58 22
HONO	eT	03 27 08
Mar. 4		
COL	iP	04 49 52
	ipP	51 43
EUR	eP	04 49 32
TUC	eP	04 49 34
Mar. 4		
COL	eP	05 41 03
Mar. 4		
EUR	eP	09 35 51
Mar. 4		
BC	eP	11 24 10
	e	25 12
EUR	eP	11 24 37
	eS	26 42
	eL	27 03
TUC	eP	11 23 39
	e	23 46
	e	23 55
	eL	24 55
Mar. 4		
COL	eP	11 44 12
HH	iP	11 45 02
Mar. 4		
COL	iP	12 11 50
	iS	12 52
	iL	12 59
Mar. 4		
COL	iP	12 40 34
RC	e(P)	12 44 59
Mar. 4		
COL	iP	13 01 01
	iS	01 25
	iL	01 29
Mar. 4		
COL	iP	14 03 48
Mar. 4		
COL	iP	15 58 14
Mar. 4		
COL	iP	17 59 02
	i	59 19
EUR	iP	18 01 38
HH	eP	18 01 18

Date and Station		Phase	(GCT) h m s
Mar. 4			
COL		iP	18 58 58
Mar. 4			
EUR		eP	20 09 06
Mar. 4			
HH		eP	20 37 34
Mar. 5			
COL		iP	02 26 10
HH		iP	02 28 23
Mar. 5			
HH		eP	03 11 37
Mar. 5			
BC		eP	05 13 14
		i	14 06
SLC		eP	05 13 41
TUC		e(P)	05 16 52
Mar. 5			
TUC		eP	05 49 55
Mar. 5			
COL		iP	06 08 15
		iS	09 04
		iL	09 12
Mar. 5			
COL		iP	09 10 46
Mar. 5			
COL		iP	11 41 45
Mar. 5			
COLU		eP	11 54 21
		eS	54 51
		iL	54 58
Mar. 5			
COL		eP	13 47 19
Mar. 5			
COL		iP	15 45 53
		iS	46 48
		eL	46 51
Mar. 5			
COL		iP	19 26 35
		iS	26 40
		iL	26 41
Mar. 5			
BC		e(P)	20 01 11
COL		eP	19 57 32
		iP	57 42
EUR		iP	20 00 58
		e	03 29
HH		eP	20 00 27
		e	03 06
RC		eP	20 01 40
TUC		iP	20 01 49
		e	02 02
Mar. 6			
COL		iP	00 31 33
Mar. 6			
COL		iP	01 22 06
		i	22 22
EUR		eP	01 21 39
Mar. 6			
EUR		eP	01 38 11
Mar. 6			
COL		iP	03 33 47
		ipP	34 47
EUR		iP	03 33 21
HH		eP	03 33 50
Mar. 6			
EUR		iP	04 16 42
Mar. 6			
COL		iP	05 05 10
Mar. 6			
EUR		eP	05 25 32
HH		e(P)	05 26 01
		e	26 31
Mar. 6			
COL		iP	05 53 16
EUR		iP	05 56 04
HH		iP	05 54 00
RC		eP	05 55 26
SJ		e(P)	05 50 24
		e	52 43
TUC		eP	05 55 10
Mar. 6			
EUR		eP	07 56 43
Mar. 6			
COL		iP	08 26 26
Mar. 6			
EUR		eP	15 01 18
Mar. 6			
COL		iP	15 54 01
EUR		iP	15 57 32
HH		eP	15 57 00
RC		eP	15 57 59
		e	58 11
Mar. 6			
COL		iP	16 21 55
EUR		iP	16 25 24
HH		e(P)	16 24 52
		i	27 01
Mar. 6			
COL		iP	20 00 53
Mar. 6			
EUR		eP	23 14 08
Mar. 7			
HH		iP	00 39 19
Mar. 7			
COL		iP	01 12 56
EUR		iP	01 08 35
HH		eP	01 09 13
SJ		eP	01 04 43
		i	04 58
Mar. 7			
BUT		eP	07 08 46
		epP	09 41
		ePP	12 36
Mar. 7			
COL		iP	07 06 50
		ipP	07 43
		eP'P'	35 53
EUR		eP	07 09 14
		e	12 54
		ePP	13 24
HH		iP	07 08 35
		e	12 02
		ePP	12 26
Mar. 7			
COL		iP	08 33 36
EUR		eP	08 36 04
HH		e(P)	08 35 23
		e	35 43
		e	38 26
		e	40 02
SJ		eP'	08 41 20
Mar. 7			
EUR		eP	08 51 35
Mar. 7			
COL		iP	10 02 19
Mar. 7			
COL		iP	11 39 25
HH		eP	11 41 51
Mar. 7			
COL		iP	11 58 13
Mar. 7			
HH		e(P)	12 42 30
Mar. 7			
COL		iP	17 43 29
EUR		iP	17 43 05
HH		eP	17 43 33
TUC		iP	17 43 05
Mar. 7			
HH		e(P)	19 59 46
Mar. 7			
EUR		eP	22 16 41
Mar. 7			
EUR		eP	22 33 19
HH		e(P)	22 32 51
Mar. 7			
COL		iP	23 22 18
		iS	22 54
		iL	22 56
Mar. 8			
COL		eP	04 07 31
Mar. 8			
COL		iP	06 06 55
Mar. 8			
EUR		eP	09 05 01
Mar. 8			
HH		e(P)	11 21 17
Mar. 8			
COL		iP	13 41 36
Mar. 8			
EUR		eP	13 56 59
		e	57 04
		eS	57 37
		iL	57 38
Mar. 8			
COL		iP	14 12 37
Mar. 8			
COL		iP	17 25 38
		iS	26 15
		iL	26 32
Mar. 8			
COL		eP	18 51 39
Mar. 8			
COL		iP	19 00 16
		i	00 41
Mar. 8			
RC		eP	20 07 20
Mar. 8			
BH		iP	20 18 22

Date and Station		Phase (GCT) h m s
BC	eP	20 22 32
	e	22 47
BOZ	eP	20 23 03
	e	23 27
COL	eP	20 29 20
COLU	iP	20 21 17
	e	21 40
EUR	iP	20 22 49
	ipP	23 13
	e	24 30
HH	iP	20 23 18
	i	23 42
	ePP	26 54
RC	iP	20 22 42
	ipP	23 06
SJ	iP	20 19 26
	ePP	21 24
TUC	iP	20 22 04
	e	23 06
Mar. 8		
HH	i(P)	21 17 14
Mar. 8		
BH	i(P)	21 33 33
Mar. 8		
BH	iP	23 31 25
	iS	31 47
Mar. 9		
COLU	e(P)	03 41 33
Mar. 9		
COL	iP	07 36 31
COLU	iP'	07 42 58
EUR	eP	07 37 35
SJ	eP'	07 43 27
Mar. 9		
BC	eP	08 16 06
BOZ	iP	08 15 38
BUT	eP	08 15 28
COL	iP	08 12 17
	i	12 48
	e	16 12
COLU	iP	08 18 36
EUR	iP	08 15 42
	i	16 27
HH	iP	08 15 12
	ePP	16 51
	e	17 16
	eS	21 22

Date and Station		Phase (GCT) h m s
RC	iP	08 16 21
	e	20 30
SLC	eP	08 15 57
SJ	iP	08 20 29
TUC	iP	08 16 43
	e	19 48
	i	20 23
Mar. 9		
EUR	eP	08 20 46
Mar. 9		
TUC	eP	10 22 10
Mar. 9		
BH	eSKS	10 47 03
	iL	11 10 55
BC	iP	10 35 38
	epP	35 51
	e(S)	46 09
BUT	eP	10 36 11
	e	40 11
COL	iP	10 36 19
	ipP	36 39
	i	37 03
	e	39 36
	i	39 45
	e(SKS)	46 25
	e(SS)	53 27
	eL	11 09 52
COLU	e(PP)	10 42 08
	eSKS	47 51
	eSP	51 51
	eL	11 16 28
EUR	iP	10 35 42
	ipP	35 58
	ePKKP	52 55
	i	53 27
HONO	iP	10 32 20
	ipP	33 06
	eT	11 34 28
	i	34 53
HH	eP	10 36 13
	ePP	40 18
	e	40 29
	e	52 13
	e	52 32
	e(SS)	56 06
	eP'P'	11 01 16
	eL	03 33
RC	eP	10 36 32
	ePP	40 46
SJ	eP'	10 41 16
TUC	iP	10 35 37
	ipP	35 52
	ePP	38 09
	e	39 26
	ePKKP	52 55

Date and Station		Phase (GCT) h m s
WASH	ePP	10 42 32
	e(PPS)	52 52
	eL	11 19 42
Mar. 9		
COL	iP	10 47 02
RC	eP	10 52 19
Mar. 9		
EUR	eP	11 42 02
Mar. 9		
EUR	eP	14 49 19
HH	iP	14 48 58
Mar. 9		
EUR	eP	19 16 10
	eL	17 27
Mar. 10		
COL	iP	06 12 57
Mar. 10		
BC	eP	08 06 06
BOZ	eP	08 05 35
BUT	eP	08 05 26
	e	06 07
COL	iP	08 02 08
	i	02 22
	i	02 39
	i	02 46
	iS	05 11
	iL	05 56
COLU	iP	08 08 40
EUR	iP	08 05 42
	iPcP	06 39
HH	iP	08 05 08
	ePP	06 38
	i	07 11
	i	07 33
RC	iP	08 06 19
	ePP	07 12
	e	08 12
	e	11 36
SLC	eP	08 05 55
SJ	iP	08 10 38
	e	11 24
SIT	iP	08 02 52
	eS	10 14
TUC	iP	08 06 44
	e	12 50
Mar. 10		
COL	iP	08 10 05
	i	10 29
	i	13 44
	i	14 28

Date and Station		Phase (GCT) h m s
EUR	iP	08 11 17
HH	iP	08 11 02
	e	15 06
Mar. 10		
BC	eP	13 40 34
	e(S)	41 10
	eL	41 17
EUR	eP	13 41 13
	i	41 39
	eS	42 51
	eL	42 56
Mar. 10		
EUR	eP	15 08 41
HH	eP	15 08 08
Mar. 10		
COL	eP	17 37 54
EUR	eP	17 40 31
HH	eP	17 40 10
Mar. 10		
EUR	eP	19 03 11
Mar. 10		
BC	eP	21 43 43
COL	iP	21 44 15
	ipP	45 11
EUR	eP	21 43 47
HH	iP	21 44 17
TUC	eP	21 43 47
Mar. 11		
BH	iP'	00 45 31
	ePPS	01 01 21
BC	eP	00 39 31C
	e	39 45
	ePP	43 44
BOZ	eP	00 39 13C
	e	39 32
BUT	iP	00 39 06C
	e	42 03
COL	iP	00 36 45C
	iPcP	37 03
	iS	45 32
	i	45 55
	iScS	46 36
	iSS	50 20
	eL	52 24
	eP'P'	01 05 12
	iP'P'	05 32
COLU	eP'	00 44 52
	iPP	46 07
	ePKKP	55 21

Date and Station		Phase	(GCT)
			h m s
EUR	iP	00	39 16C
	ePKKP		56 47
	iPKKP		57 20
	eP'P'	01	04 55
	eP'P'P'		25 19
HONO	eP	00	37 12
	i		37 25
	i		39 20
	i		40 30
	iS		43 48
	i		44 36
	iSS		46 42
	iL		48 13
HH	iP	00	38 56C
	iPKKP		56 39
	eP'P'	01	04 37
	eP'P'P'		25 32
KIP	eP	00	37 11
	i		37 26
	iPP		40 00
RC	eP	00	39 35
	i		39 58
	ePP		43 38
	ePPS		53 02
	ePKKP		56 17
	eP'P'	01	04 32
SLC	eP	00	39 25
	i		40 06
	ePP		43 16
SJ	eP'	00	45 21
	ePP		48 15
	eSKSP		58 02
SIT	iP	00	37 34D
	i		37 52
	e(S)		47 18
	e		49 36
TUC	eP	00	39 59
	i		40 11
	e		41 38
	iPP		44 18
	eSKS		50 18
	iS		50 59
	ePPS		53 31
	e(PKKP)		56 28
	i(SS)		58 48
	eL	01	08 50
UK	eP	00	39 11
	eS		49 49
WASH	e(P)	00	40 55
	iPP		45 40
	ePS		54 56
Mar. 11			
COL	iP	01	21 12
	iS		21 36
	iL		21 40
EUR	e(P)	01	26 01
	eP		27 18

Date and Station		Phase	(GCT)
			h m s
RC	e(P)	01	25 45
TUC	e(P)	01	25 45
Mar. 11			
EUR	eP	04	58 57
TUC	e(P)	04	57 47
Mar. 11			
BC	eP	08	53 25
	epP		54 09
BOZ	eP	08	54 09
BUT	e(P)	08	54 16
COL	iP	08	57 35
	ipP		58 23
COLU	iP	08	51 58
	e(PP)		52 30
EUR	iP	08	53 51
	ipP		54 34
HH	eP	08	54 34
RC	eP	08	53 31
SJ	e(P)	08	53 08
TUC	iP	08	52 44
	e		53 24
	e		54 27
Mar. 11			
COL	iP	09	16 29
EUR	eP	09	19 47
HH	eP	09	19 19
TUC	eP	09	20 47
Mar. 11			
SJ	eP	11	44 24
Mar. 11			
BC	eP	14	12 05
COL	iP	14	11 42
	i		12 03
	i		12 26
	e		21 43
	iS		22 31
	e		29 05
	eL		37 35
EUR	iP	14	11 58
	ePPP		15 35
	e(PKKP)		30 40
HONO	eT	14	59 58
	i	15	00 25
	i		00 30
HH	eP	14	12 22

Date and Station		Phase	(GCT)
			h m s
SJ	eP'	14	18 13
	e		18 33
	e		22 13
TUC	eP	14	12 21
	e		12 43
	eL		41 29
Mar. 11			
COL	eP	15	09 12
Mar. 11			
SJ	eP	19	10 43
Mar. 11			
COL	iP	19	36 33
	ipP		38 20
EUR	eP	19	38 38
HH	iP	19	38 30
Mar. 11			
COL	iP	20	07 48
Mar. 11			
HH	i(P)	20	33 00
Mar. 11			
COLU	e(P)	21	48 35
EUR	eP	21	50 07
HH	eP	21	50 36
Mar. 11			
BH	iP	23	57 44
BC	eP	23	58 19
	eL	00	05 52
BOZ	eP	23	59 21
BUT	eP	23	59 26
COLU	iP	23	58 13
	iS	00	02 38
EUR	iP	23	58 49
	iPP		59 39
HH	eP	23	59 47
RC	eP	23	58 54
	eL	00	08 15
SLC	eP	23	58 43
	e		58 59
SJ	eP	23	59 24
TUC	iP	23	57 28
	eL	00	02 48
	iL		03 21
Mar. 12			
COL	iP	00	02 57
	eL		25 00

Date and Station		Phase	(GCT)
			h m s
EUR	eP	00	07 42
Mar. 12			
COL	iP	00	18 32
COLU	iP	00	13 48
EUR	eP	00	14 24
HH	eP	00	15 22
RC	e(P)	00	14 27
TUC	eP	00	13 03
	eL		18 52
Mar. 12			
COL	iP	03	07 28
HH	iP	03	09 54
Mar. 12			
BH	iP	04	14 52
Mar. 12			
EUR	eP	06	56 42
Mar. 12			
COL	iP	11	15 48
Mar. 12			
COL	iP	11	17 22
	iS		18 10
	iL		18 17
Mar. 12			
BC	eP	12	11 02
	e		11 31
	eL		13 03
BOZ	eP	12	11 03
	e		11 20
BUT	eP	12	10 44
	e		11 03
EUR	iP	12	10 14
	i(S)		11 09
	iL		11 14
HH	eP	12	10 59
	eS		12 26
	eL		12 45
RC	eP	12	12 16
	e		12 55
SLC	e(P)	12	10 56
	e		11 09
	eS		12 12
	eL		12 19
UK	eP	12	10 39
	eL		11 46
Mar. 12			
COL	iP	13	03 25

Date and Station		Phase (GCT)
		h m s
BUT	eP	14 49 02
COL	eP	14 46 54
	e	47 28
EUR	iP	14 49 02
HH	iP	14 48 54
KIP	eP	14 45 46
RC	eP	14 49 36
Mar. 12		
BUT	eP	18 28 23
COL	iP	18 26 01
	epP	27 55
EUR	iP	18 28 29
	epP	30 13
HH	iP	18 28 14
RC	eP	18 28 56
TUC	eP	18 29 05
Mar. 12		
COL	iP	18 44 43
	i	45 03
	i	45 15
	iS	45 35
	iL	45 43
TUC	eP	20 50 57
Mar. 12		
EUR	eP	23 21 24
Mar. 12		
EUR	eP	23 29 12
TUC	e(P)	23 20 13
Mar. 12		
COL	iP	23 54 05
	i	54 09
EUR	eP	23 57 30
RC	eP	23 58 10
Mar. 13		
KIP	eP	01 14 24
	iS	14 28
	iL	14 29
Mar. 13		
EUR	eP	06 46 27
Mar. 13		
BUT	eP	09 04 05
RC	eP	09 06 08
Mar. 13		
COL	iP	10 18 13

Date and Station		Phase (GCT)
		h m s
EUR	iP	10 21 41
Mar. 13		
COL	iP	13 48 21
	iS	49 12
	iL	49 29
Mar. 13		
EUR	iP	14 18 14
RC	eP	14 19 54
Mar. 13		
COL	iP	17 13 39
Mar. 13		
HH	e(P)	19 44 55
Mar. 13		
COL	iP	21 41 38
EUR	iP	21 41 43
TUC	eP	21 41 49
Mar. 13		
HH	i(P)	22 49 38
Mar. 13		
BC	eP	23 16 12
	e	17 36
EUR	eP	23 17 02
	e(S)	19 04
	eL	19 24
TUC	eP	23 16 03
	e	16 12
	e	16 20
	e(S)	17 10
	eL	17 15
Mar. 13		
COL	iP	23 45 28
	iS	46 08
	eL	46 11
Mar. 14		
COL	iP	00 01 25
	i	01 40
	ePP	04 34
EUR	eP	00 03 36
	eP'	07 55
HH	eP	00 03 21
	ePP	07 37
SJ	eP'	00 09 17
SIT	eP	00 02 14
Mar. 14		
COL	iP	00 21 40
	e	24 31
EUR	eP	00 19 35

Date and Station		Phase (GCT)
		h m s
Mar. 14		
COL	e(P)	05 55 16
	i	55 24
	i	55 36
	iS	57 19
	eL	57 42
Mar. 14		
COL	iP	08 58 14
	iS	59 24
	iL	59 35
HH	eP	09 02 28
Mar. 14		
COL	eP	10 03 46
	i	03 48
	i	04 07
EUR	iP	10 07 14
	i	07 27
	i	07 33
HH	iP	10 06 44
	i	08 54
	i	09 12
RC	eP	10 07 54
	e	08 10
TUC	eP	10 08 16
Mar. 14		
COL	iP	11 20 33
	i(S)	21 20
	i(L)	21 37
Mar. 14		
COL	iP	12 44 04
Mar. 14		
COL	iP	13 54 25
EUR	eP	13 57 59
Mar. 14		
HH	eP	18 32 25
Mar. 14		
COL	iP	21 06 27
Mar. 14		
COL	iP	22 39 13
Mar. 15		
BUT	eP	00 37 36
COL	iP	00 35 14
	i	35 22
	iPP	37 55
	eS	44 38
	eL	56 29
EUR	eP	00 37 53
	e(PP)	41 51
HH	eP	00 37 19
	ePP	41 23
SIT	eP	00 36 07

Date and Station		Phase (GCT)
		h m s
Mar. 15		
HH	iP	03 31 53
Mar. 15		
COL	iP	05 55 36
Mar. 15		
BOZ	eP	06 39 40
BUT	eP	06 39 45
COL	iP	06 38 46
HH	iP	06 39 33
	i	39 38
RC	eP	06 39 34
TUC	eP	06 40 37
Mar. 15		
COL	iP	08 03 30
Mar. 15		
BC	eP	08 29 18
	e	30 29
EUR	eP	08 32 13
	e(S)	34 10
	eL	34 31
HH	eP	08 34 01
TUC	eP	08 30 54
Mar. 15		
BC	eP	08 35 11
	e	35 38
	e(S)	36 12
	eL	36 19
BOZ	e(P)	08 37 34
EUR	e(P)	08 35 50
	iL	37 52
HH	eP	08 37 54
RC	e(P)	08 37 39
	eL	42 22
SLC	eP	08 35 14
	e	35 58
	eL	37 56
TUC	e(P)	08 34 40
	i	34 44
Mar. 15		
BC	e(P)	08 52 24
	e	53 58
EUR	e(P)	08 52 33
	eP	53 16
	eS	55 18
	eL	55 37

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

Date and Station		Phase (GCT)
		h m s
Mar. 19		
HH	e(P)	20 37 20
Mar. 19		
EUR	eP	20 51 47
Mar. 19		
KIP	eP	23 52 52
Mar. 20		
BH	iP	01 50 45
	iS	02 01 04
BC	iP	01 46 10
	ePP	47 49
	e(S)	52 45
	e	56 10
	eL	58 44
Mar. 20		
BOZ	iP	01 45 45
	i	46 36
	e(S)	51 53
	eL	55 29
BUT	iP	01 45 36
	e(S)	51 42
	eL	54 38
COL	iP	01 42 31
	i	42 35
	iS	46 15
	iL	47 20
COLU	iP	01 48 49
	eP'P'	02 17 28
EUR	iP	01 45 47
	i	47 51
HONO	eP	01 44 25
	iS	49 40
	iL	51 04
HH	iP	01 45 20
	iPcP	47 38
	eS	51 25
	e(P'P')	02 17 31
KIP	iP	01 44 25
RC	iP	01 46 29
	eL	02 02 09
SLC	eP	01 46 03
	e	46 50
SJ	iP	01 50 46
SIT	iP	01 43 13
	iPP	43 49
	eS	47 33
	eL	48 03
TUC	iP	01 46 49
	e(PP)	48 36
	e	49 33
	eS	53 58
	eL	59 49

Date and Station		Phase (GCT)
		h m s
UK	iP	01 45 14
	eL	54 25
Mar. 20		
COL	eP	02 16 57
Mar. 20		
COL	iP	06 30 33
	e	31 36
	e	33 42
Mar. 20		
COL	iP	08 00 59
	e	01 31
HH	e(P)	08 02 34
Mar. 20		
COL	eP	12 49 42
	iS	51 06
	iL	51 11
Mar. 20		
COL	eP	13 10 52
Mar. 20		
COL	iP	14 59 37
Mar. 20		
BC	eP	15 00 14
EUR	iP	15 00 15
Mar. 20		
COL	iP	17 29 58
EUR	iP	17 30 35
Mar. 20		
TUC	eP	21 02 57
Mar. 21		
HONO	eP	00 15 54
Mar. 21		
COL	iP	01 23 52
Mar. 21		
HH	eP	06 05 34
TUC	eP	06 03 19
Mar. 21		
HH	iP	09 44 40
TUC	eP	09 43 50
Mar. 21		
EUR	eP	11 34 56
Mar. 21		
BC	eP	14 20 57
BOZ	eP	14 21 45
COL	iP	14 25 16
	i	25 55
COLU	eP	14 19 49

Date and Station		Phase (GCT)
		h m s
EUR	iP	14 21 23
HH	iP	14 22 12
RC	e(P)	14 21 10
	ePP	22 18
	eL	29 30
TUC	eP	14 20 14
	iP	20 15
	e	21 48
Mar. 21		
COL	iP	15 42 34
Mar. 21		
EUR	eP	16 56 26
	eL	57 05
Mar. 21		
BOZ	eP	22 45 45
Mar. 21		
COL	eP	22 55 54
Mar. 21		
COL	iP	23 01 49
Mar. 22		
HH	e(P)	03 28 58
Mar. 22		
EUR	eP	06 31 54
TUC	e(P)	06 31 59
Mar. 22		
COL	eP	07 09 06
	i	09 13
EUR	eP	07 12 34
HH	iP	07 12 03
	e	14 15
RC	eP	07 13 13
TUC	eP	07 13 38
Mar. 22		
BC	eP'	10 30 10
	e	30 59
BOZ	ePP	10 30 04
	e	30 19
BUT	eP'	10 29 29
	ePP	30 04
COL	iP	10 23 39
	i	24 06
	i	24 34
	i	25 28
	iPP	26 40
	iS	33 36
	ePPS	34 30
	eSS	38 28
	e(SSS)	42 45
	eL	44 40

Date and Station		Phase (GCT)
		h m s
EUR	eP	10 26 13
	i(P')	30 08
	iPP	30 47
	ePKKP	41 02
HH	eP	10 25 33
	ePP	29 41
	iPP	29 48
	i	29 54
RC	eP'	10 30 02
	e	30 36
	ePPP	33 08
SLC	eP'	10 30 05
SJ	e(P')	10 31 28
	ePP	34 12
SIT	eP	10 24 28
TUC	iP'	10 30 23
	ePP	31 38
Mar. 22		
COL	iP	11 19 38
	i	20 38
EUR	eP	11 24 32
HH	eP	11 21 23
	e	24 30
	e	25 26
Mar. 22		
COL	eP	14 15 50
EUR	eP	14 16 04
Mar. 22		
BC	eP	16 48 50
	e	49 11
BOZ	eP	16 49 07
	e	49 25
BUT	eP	16 49 13
	e	49 35
EUR	iP	16 48 38
	i	48 50
	i	49 45
HH	iP	16 49 46
	e	52 09
RC	eP	16 49 19
	e	49 47
	e	50 01
	eL	51 18
SLC	eP	16 47 57
	e	48 32
TUC	eP	16 49 47
	i	49 54
	i	51 27

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Date and Station		Phase	(GCT) h m s
Mar. 22			
HH		iP	17 01 43
Mar. 22			
EUR		eP	18 02 44
RC		eP	18 05 12
TUC		eP	18 03 45
Mar. 22			
COL		eP	21 36 43
Mar. 22			
COL		iP	22 47 37
		iS	47 57
		iL	48 02
Mar. 23			
COL		iP	00 20 31
		iS	21 34
		iL	21 48
Mar. 23			
KIP		e(P)	01 39 50
Mar. 23			
EUR		eP	02 42 39
RC		eP	02 42 11
TUC		eP	02 42 10
Mar. 23			
TUC		eP	08 46 50
Mar. 23			
EUR		eP	08 59 20
HH		iP	08 59 51
Mar. 23			
COL		eP	10 26 23
		iP	26 24
EUR		eP	10 28 43
		e	32 17
HONO		eP	10 26 43
HH		eP	10 28 24
		ePP	32 31
KIP		eP	10 27 45
SIT		eP	10 27 10
Mar. 23			
EUR		eP	10 45 03
Mar. 23			
COL		iP	12 37 29
Mar. 23			
EUR		eP	15 44 04
Mar. 23			
EUR		eP	15 52 32
HH		eP	15 52 26

Date and Station		Phase	(GCT) h m s
Mar. 23			
EUR		eP	17 42 44
HH		eP	17 43 42
Mar. 23			
BC		eP	17 55 49
EUR		eP	17 56 36
HH		eP	17 58 03
TUC		e(P)	17 54 46
		e	57 20
Mar. 23			
COL		iP	19 03 08
EUR		iP	19 06 43
HH		eP	19 06 11
RC		eP	19 07 09
		e	07 24
TUC		eP	19 07 38
Mar. 23			
BC		eP	20 21 33
BOZ		eP	20 21 14
		e	21 26
BUT		eP	20 21 03
		e	21 30
COL		iP	20 17 53
		eS	21 38
		e	22 03
		eL	22 32
COLU		iP	20 24 12
		e	24 23
EUR		iP	20 21 15
		i	21 30
HH		iP	20 20 48
RC		eP	20 21 57
TUC		eP	20 22 20
		e	22 45
Mar. 24			
EUR		eP	00 23 00
		iS	23 43
Mar. 24			
BC		eP	01 09 50
COL		eP	01 09 07
Mar. 24			
BC		e(P)	03 13 44
EUR		eP	03 11 16
		iS	12 00

Date and Station		Phase	(GCT) h m s
Mar. 24			
HH		e(P)	04 30 51
Mar. 24			
HH		eP	06 03 46
Mar. 24			
COL		iP	06 00 50
		i	01 12
Mar. 24			
EUR		eP	06 04 16
		i	04 29
HH		iP	06 05 56
RC		eP	06 04 56
Mar. 24			
COL		iP	08 19 30
		i	20 01
EUR		eP	08 20 05
Mar. 24			
HH		e(P)	11 22 20
Mar. 24			
EUR		eP	11 57 35
Mar. 24			
COL		eP	12 07 20
Mar. 24			
COL		iP	13 31 21
		i	31 45
EUR		iP	13 34 48
		e	35 16
Mar. 24			
COL		iP	15 01 49
EUR		eP	15 05 04
HH		eP	15 04 37
Mar. 24			
HH		eP	20 51 09
Mar. 24			
COL		eP	22 00 00
Mar. 24			
COL		iP	23 23 05
Mar. 25			
EUR		eP	02 59 38
		e(S)	03 00 34
		eL	00 48
Mar. 25			
HH		iP	03 05 49
Mar. 25			
EUR		eP	03 47 32
Mar. 25			
TUC		eP	08 37 50

Date and Station		Phase	(GCT) h m s
Mar. 25			
EUR		e(P)	09 12 18
		e	12 25
HH		eP	09 11 27
Mar. 25			
EUR		eP	09 34 14
Mar. 25			
COL		iP	09 41 18
HH		eP	09 43 26
Mar. 25			
HH		eP	11 48 42
Mar. 25			
COL		eP	16 08 17
HH		eP	16 10 22
Mar. 25			
BC		eP	18 51 06
		ePcP	52 12
BOZ		eP	18 51 03
BUT		eP	18 51 15
COL		iP	18 53 46
COLU		iP	18 47 20
		i	47 33
		eS	51 17
EUR		iP	18 51 17
HH		iP	18 51 23
		ePP	53 25
RC		eP	18 50 14
		i	50 20
		ePcP	52 10
		eP'P'	19 22 12
SLC		eP	18 50 55
SJ		iP	18 42 51
		iS	43 03
		iL	43 05
TUC		iP	18 50 35
		e	51 06
WASH		eP	18 47 38
EUR		iP	19 15 00
TUC		eP	19 15 08
Mar. 25			
HH		iP	20 30 42
Mar. 25			
HH		eP	21 15 30

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Date and Station		Phase (GCT)
		h m s
Mar. 25		
BC	eP	21 47 23
	epP	47 54
EUR	iP	21 47 41
	ipP	48 12
HH	iP	21 48 10
	ipP	48 41
RC	iP	21 47 32
	ipP	48 04
SJ	iP	21 43 09
	epP	43 37
TUC	iP	21 46 55
	epP	47 28
Mar. 25		
BC	eP'	22 53 10
EUR	eP'	22 53 13
HH	eP'	22 52 58
	ePP	55 01
RC	eP	22 53 05
TUC	eP'	22 53 28
	ePP	56 50
Mar. 26		
COL	iP	00 04 02
EUR	iP	00 10 21
HH	eP	00 10 08
TUC	eP	00 13 57
Mar. 26		
COL	iP	00 37 49
	ipP	38 14
	iPP	40 35
EUR	eP	00 43 19
HH	eP	00 40 01
	e	43 46
SJ	eP'	00 45 26
	i	46 03
SIT	eP	00 38 52
TUC	eP'	00 45 22
Mar. 26		
EUR	eP	03 43 14
Mar. 26		
EUR	eP	10 38 54
Mar. 26		
EUR	eP	13 13 58
	eS	14 55
	eL	14 58
SJ	iP	13 05 12
	eS	05 28
	eL	05 32

Date and Station		Phase (GCT)
		h m s
Mar. 26		
COL	eP	17 36 54
Mar. 26		
TUC	e(P)	19 16 43
Mar. 26		
COL	eP	20 05 38
EUR	iP	20 02 50
	eP	05 35
Mar. 26		
HH	eP	23 07 07
Mar. 26		
EUR	eP	23 37 37
TUC	eP	23 37 36
Mar. 27		
HH	i(P)	00 03 52
Mar. 27		
EUR	eP	00 27 18
Mar. 27		
COL	eP	01 17 02
EUR	iP	01 17 08
Mar. 27		
TUC	eP	01 17 15
Mar. 27		
EUR	eP	03 23 57
TUC	e(P)	03 22 40
	e	22 45
Mar. 27		
EUR	eP	04 56 53
	i	57 07
	eS	57 57
	eL	58 03
Mar. 27		
BC	eP	06 11 44
	e	11 51
COL	iP	06 16 04
	ipP	16 43
COLU	iP	06 10 40
	eL	19 10
EUR	iP	06 12 10
	ipP	12 52
HH	iP	06 13 00
RC	eP	06 11 59
SLC	eP	06 12 00
TUC	eP	06 10 58
	iP	10 59
	eL	19 10

Date and Station		Phase (GCT)
		h m s
Mar. 27		
BC	e(P)	06 45 02
	e	45 24
COL	iP	06 41 03
EUR	iP	06 44 48
	i	45 04
HH	eP	06 44 12
RC	iP	06 45 14
SLC	eP	06 45 02
TUC	eP	06 45 44
Mar. 27		
TUC	eP	07 22 23
Mar. 27		
EUR	eP	12 05 53
Mar. 27		
HH	iP	14 40 07
Mar. 27		
COL	iP	14 59 40
Mar. 27		
EUR	eP	15 03 16
TUC	eP	15 02 16
Mar. 27		
COL	iP	22 20 28
EUR	eP	22 15 38
Mar. 27		
EUR	iP	22 16 40
Mar. 28		
COL	iP	00 35 55
EUR	iP	00 36 56
HH	eP	00 37 02
Mar. 28		
HH	eP	02 56 06
Mar. 28		
COL	iP	04 20 51
	ipP	21 46
EUR	eP	04 24 14
	e	28 02
HH	eP	04 22 35
	epP	23 32
	e	27 44
Mar. 28		
EUR	eP	04 39 01
	e	39 53
Mar. 28		
COL	iP	09 10 15
	ipP	11 55

Date and Station		Phase (GCT)
		h m s
EUR	eP	09 09 53
Mar. 28		
COL	eP	10 18 37
Mar. 28		
BC	eP'	12 24 13
	e	24 31
	ePP	24 49
BOZ	eP	12 19 42
	esP	20 48
BUT	eP	12 19 40
	epP	20 27
COL	iP	12 17 44
	ipP	18 30
	ipPP	21 20
	isPP	21 38
	e	23 20
	i	23 24
	eS	26 36
	esS	28 00
	i	28 22
	eL	36 12
	e	48 03
COLU	eP'	12 24 11
	ePP	25 19
EUR	iP	12 20 09
	ipP	21 01
	e	40 54
	e	42 27
HH	iP	12 19 28
	ipP	20 11
	i	20 19
	i	22 43
	iPP	23 09
	i	23 20
	ePKKP	36 19
RC	iP	12 19 48
	ePP	23 49
	eSKS	30 13
	ePKKP	37 23
SLC	eP	12 20 04
	e(pP)	21 00
	ePP	24 23
SJ	iPP	12 25 23
SIT	iP	12 18 36
	epP	19 24
TUC	eP'	12 24 38
	iPP	25 11
Mar. 28		
EUR	iP	12 36 55
	ipP	37 46
	isP	38 03
TUC	eP	12 35 31
	epP	36 22

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Date and Station		Phase	(GCT) h m s
Mar. 28			
EUR		eP	12 44 13
Mar. 28			
BC		eP	13 12 03
		epP	12 36
COL		iP	13 16 26
		ipP	16 50
EUR		iP	13 12 30
		ipP	13 06
HH		iP	13 13 20
		ePP	15 40
RC		eP	13 13 07
TUC		eP	13 11 17
Mar. 28			
COL		eP	14 00 28
EUR		eP	14 03 57
HH		eP	14 03 24
		e	06 06
Mar. 28			
BC		eP	14 57 35
COL		iP	14 58 14
EUR		eP	14 57 40
HH		eP	14 58 12
SLC		eP	14 58 02
TUC		e(P)	14 57 48
Mar. 28			
EUR		iP	17 10 06
HH		e(P)	17 09 35
Mar. 28			
COL		iP	17 32 17
		ipP	32 46
Mar. 28			
COL		eP	18 55 38
EUR		iP	18 58 34
HH		eP	18 58 10
TUC		eP	18 59 32
Mar. 28			
HH		eP	19 44 45
		iP	44 46
		eS	45 04
		iL	45 07
Mar. 28			
COL		iP	20 28 30
EUR		eP	20 31 41

Date and Station		Phase	(GCT) h m s
Mar. 28			
HH		e(P)	22 23 31
Mar. 29			
BC		eP	00 19 39
EUR		eP	00 20 06
TUC		e(P)	00 18 23
		e	18 34
		e(S)	19 18
		eL	19 23
Mar. 29			
HH		eP	03 13 22
Mar. 29			
COL		eP	06 46 54
HH		eP	06 45 37
Mar. 29			
HH		eP	07 31 12
Mar. 29			
COL		iP	08 50 12
Mar. 29			
HH		e(P)	09 47 40
Mar. 29			
EUR		eP	10 07 10
Mar. 29			
HH		eP	10 45 53
Mar. 29			
EUR		iP	10 57 53
RC		eP	10 57 37
Mar. 29			
BC		e(P)	11 38 16
COL		eP	11 36 21
Mar. 29			
EUR		eP	11 45 11
Mar. 29			
COL		eP	14 00 51
Mar. 29			
BUT		eP	18 21 55
Mar. 29			
HH		eP	20 54 20
Mar. 29			
COL		eP	22 05 09
Mar. 30			
BUT		eP	02 03 33
HH		eP	02 03 15
Mar. 30			
HH		eP	05 11 58

Date and Station		Phase	(GCT) h m s
Mar. 30			
EUR		eP	06 22 20
Mar. 30			
BH		iP	08 24 25
		i	26 06
EUR		eP	08 22 36
Mar. 30			
HH		eP	08 32 23
Mar. 30			
SJ		eP	08 28 06
TUC		e(P)	08 30 40
Mar. 30			
SJ		eP	09 08 58
		e	09 10
Mar. 30			
COL		e(P)	12 54 56
Mar. 30			
BOZ		eP	14 17 21
Mar. 30			
BH		e(P)	14 24 46
		e	25 51
Mar. 30			
COL		eP	14 26 06
		iS	26 55
		iL	26 59
Mar. 30			
BC		eP	14 31 52
		epP	32 07
BUT		eP	14 32 27
		epP	32 43
COL		eP	14 35 19
EUR		iP	14 32 13
		ipP	32 29
HH		iP	14 32 45
RC		iP	14 31 42
SJ		iP	14 27 27
		e	29 03
TUC		iP	14 31 13
		i	31 29
Mar. 30			
COL		iP	14 49 04
		ipP	49 49
Mar. 30			
TUC		eP	15 14 40
Mar. 30			
HH		eP	16 16 28

Date and Station		Phase	(GCT) h m s
Mar. 30			
COL		eP	17 45 12
		e	46 21
		epP	47 19
EUR		iP	17 44 53
		epP	46 59
HH		eP	17 45 19
TUC		iP	17 44 53
Mar. 30			
HH		e(P)	18 15 01
Mar. 30			
COL		iP	18 34 54
HH		eP	18 34 07
Mar. 30			
COL		iP	18 38 06
HH		eP	18 37 18
Mar. 30			
COL		iP	22 49 54
HH		eP	22 49 52
TUC		eP	22 49 20
Mar. 30			
COL		iP	23 37 13
Mar. 31			
BUT		iP	01 00 04
		e	00 34
COL		iP	01 03 47
EUR		iP	01 03 26
HH		iP	01 03 52
TUC		iP	01 03 26
Mar. 31			
COL		iP	03 54 46
Mar. 31			
HH		eP	04 17 17
Mar. 31			
TUC		eP	06 00 11
Mar. 31			
BC		eP	10 36 32
		epP	36 52
BOZ		eP	10 37 23
		epP	37 49
		e	38 16
BUT		eP	10 37 29
		epP	37 55
COLU		eP	10 35 41
		eS	39 24

Date and Station		Phase (GCT)	Date and Station		Phase (GCT)	Date and Station		Phase (GCT)	Date and Station		Phase (GCT)
		h m s			h m s			h m s			h m s
EUR	iP	10 37 00	HH	eP	18 00 32						
	ipP	37 26									
			RC	eP	18 01 22						
HH	iP	10 37 50									
	ipP	38 15	Mar. 31								
	i	38 45	HONO	eP	19 15 38						
	e(PcP)	40 46									
			Mar. 31								
RC	iP	10 36 47	BUT	eP	20 03 13						
	epP	37 12									
	e	37 30	EUR	iP	20 02 56						
SLC	eP	10 36 50	HH	eP	20 03 24						
	epP	37 15									
	e(SP)	37 31	RC	eP	20 02 42						
TUC	iP	10 35 47	TUC	eP	20 02 10						
	epP	36 09									
	i	36 25	Mar. 31								
	eL	42 40	COL	iP	20 58 20						
				i	58 28						
Mar. 31				iS	59 24						
COL	iP	10 55 58		i	59 31						
	ipP	56 26		iL	59 45						
	i	56 39									
			Mar. 31								
Mar. 31			HH	e(P)	21 01 58						
TUC	e(P)	13 48 35		i	02 39						
Mar. 31			Mar. 31								
TUC	eP	14 36 55	COL	eP	21 20 40						
				iP	20 43						
Mar. 31											
BOZ	eP	15 08 42	EUR	eP	21 18 22						
COL	eP	15 05 18	HH	eP	21 18 24						
	i	05 55									
			RC	eP	21 17 19						
EUR	iP	15 08 44									
	i	08 48	SJ	eP	21 10 26						
	i	08 57		eS	11 24						
				eL	11 29						
HH	eP	15 08 14									
	i	08 26									
	i	11 06									
RC	eP	15 09 30									
Mar. 31											
COL	iP	15 49 37									
	iS	50 32									
EUR	iP	15 55 35									
HH	eP	15 54 34									
	e	54 52									
Mar. 31											
HH	iP	16 58 49									
Mar. 31											
EUR	eP	17 54 21									
	i	54 32									
Mar. 31											
COL	iP	17 57 41									
EUR	iP	18 01 02									

LOCAL AND MINOR EARTHQUAKES

Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s		h m s		h m s		h m s
BUT		SIT					
Mar.		Mar.					
2	11.8	9	03.1				
26	21.5	14	05.8				
28	21.9	22	21.5				
COL		TUC					
Mar.		Mar.					
3	10.7	1	07.8				
4	10.5		09.2				
5	03.1		12.6				
	12.9	3	04.2				
7	14.3		09.7				
8	16.9		10.8				
10	17.3	4	09.7				
15	10.3	9	08.7				
17	04.9		11.6				
22	13.2		12.3				
24	00.6	10	13.7				
24	08.2	12	06.9				
25	22.5	13	07.6				
27	23.0	15	01.5				
			08.5				
EUR			08.9				
Mar.			09.0				
11	17.2		09.4				
13	23.5		10.3				
15	20.1		10.4				
17	23.7		14.7				
18	19.0	16	06.7				
19	23.5	18	02.0				
20	00.2	21	05.2				
21	11.1		09.2				
28	07.4	25	09.5				
HONO			12.5				
Mar.		27	01.4				
13	01.2		05.0				
19	23.9	28	07.1				
21	21.8		07.6				
26	01.8		13.9				
			21.8				
KIP			23.5				
Mar.		29	00.6				
21	21.8		05.2				
			11.6				
SLC		30	09.5				
Mar.							
22	18.0	UK					
		Mar.					
SJ		5	00.6				
Mar.			09.2				
4	08.7	14	14.0				
9	22.9	17	00.1				
13	20.9	18	13.2				
15	22.7	21	11.6				
19	09.5	25	03.0				
	16.9	28	21.2				
21	01.0						
25	18.9						
26	13.2						
	16.4						
27	09.0						
	18.2						
29	04.8						

Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s		h m s		h m s		h m s