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May, 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
May	h m s	° '	° '	
1	02 42 03*	4-1/2 S.	103 E.	Near coast of southern Sumatra.
1	12 57 48**			Tonga Islands.
2	02 45 16**			Banda Sea, about 150 miles northeast of Timor Island.
2	06 34 22*	28 N.	139-1/2 E.	Bonin Islands region. h about 550 km.
3	02 11 17*	16 S.	74 W.	Southern Peru.
3	02 59 20**			Gulf of Alaska, about 200 miles northwest of Sitka.
4	13 50 00**			Near coast of Guerrero, Mexico.
4	14 14 20*	19 S.	175 W.	Tonga Islands.
4	18 45 21*	16 N.	122 E.	Near east coast of Luzon, Philippine Islands.
5	03 22 27*	15-1/2 S.	173 W.	Samoa Islands region. h about 100 km. Mag. 6.
5	12 39 15*	28-1/2 S.	69 W.	Argentina-Chile border. h about 150 km.
6	20 57 16*	54-1/2 N.	162-1/2 W.	Unimak Island region, Alaska. Mag. 5-3/4.
6	22 02 27*	45-1/2 N.	150-1/2 E.	Kurile Islands.
7	08 17 03*	14-1/2 N.	90-1/2 W.	Guatemala. Felt in Guatemala and El Salvador. h about 200 km.
7	10 58 12*	46-1/2 S.	96 E.	South Indian Ocean. Mag. 6-1/4.
7	18 38 47*	10 N.	141-1/2 E.	Caroline Islands.
8	03 07 34*	19 N.	121-1/2 E.	Near north coast of Luzon, Philippine Islands. Felt at Aparri.
8	10 46 22*	75 N.	1-1/2 E.	Arctic Ocean.
8	12 47 18**			Fiji Islands region. h about 400 km.
8	19 50 05*	38-1/2 N.	74-1/2 E.	Hindu Kush.
8	20 50 00**			Iran, near north coast of Persian Gulf.
10	05 44 48*	12 N.	143 E.	Marianas Islands. h about 100 km.
10	11 48 50*	31-1/2 N.	116 W.	Lower California. Mag. 5-1/4.
10	16 36 32*	53-1/2 N.	164 W.	Near Unimak Island, Alaska.
10	18 12 00*	79 N.	3 E.	Off west coast of Spitzbergen.
10	23 04 05*	4-1/2 N.	127-1/2 E.	Molucca Passage.
11	16 30 50*	34-1/4 N.	116-1/2 W.	San Bernardino County, California. Felt from Los Angeles to San Diego. Mag. 4-3/4.
12	09 44 11**			About 200 miles south of Honshu, Japan.
12	21 40 23*	43-1/2 N.	146-1/2 E.	Off east coast of Hokkaido, Japan.
13	04 10 07**			Western Nevada. Felt at Fallon. Mag. 4-1/4 - 4-1/2 (Berk).
13	04 27 14**			North Polar region, north of Severnaya Zemlya, Siberia.
13	07 50 33*	30 N.	70 E.	Central Pakistan.
13	08 56 36**			North Polar region, north of Severnaya Zemlya, Siberia.
13	14 34 00*	85-1/2 N.	82 E.	North Polar region.
15	08 13 02*	13-1/2 S.	77 W.	Near coast of Peru. h about 100 km.
15	12 32 59*	6 S.	82 W.	Near coast of Peru.
15	18 34 15*	37-1/2 N.	21 E.	Near west coast of Greece.

Date 1956	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
May	h m s	° '	° '	
15	22 56 55*	38 N.	22 E.	Southern Greece.
16	22 09 50*	24 S.	178-1/2 E.	South of Fiji Islands.
17	00 07 24**			Hindu Kush. h about 200 km.
17	05 59 57*	16-1/2 S.	72 W.	Near coast of southern Peru. h about 60 km.
17	21 08 46*	52-1/2 N.	174 E.	Near Islands, Aleutian Islands.
18	08 19 35*	17 S.	179 W.	Fiji Islands. h about 600 km.
18	09 55 09*	62 N.	145-1/2 W.	Southern Alaska. h about 100 km.
18	22 08 25**			Near east coast of Greece.
19	00 21 12*	11-1/2 S.	166-1/2 E.	Santa Cruz Islands.
19	01 30 36*	7 S.	156 E.	Solomon Islands. Felt at Karoola.
19	06 27 50**			About 150 miles off coast of Guatemala.
19	20 02 15*	40 S.	43 E.	Indian Ocean.
20	15 41 56*	37-1/2 N.	76 E.	Sinkiang Province, China.
20	17 50 37**			Marshall Islands.
21	00 29 47**			Northern Chile. h about 100 km.
21	09 15 47*	60 N.	150-1/2 W.	Kenai Peninsula, Alaska. h about 150 km.
22	02 05 06*	4-1/2 N.	126-1/2 E.	South of Mindanao, Philippine Islands.
22	03 01 03*	15-1/2 S.	173 W.	Samoa Islands. Felt at Apia. Mag. 6-1/2.
22	05 10 40**			Near east coast of Celebes.
22	13 36 12*	4 S.	152-1/2 E.	New Ireland. Felt at Rabaul, New Britain. h about 550 km.
22	20 55 27**			Assam-China border region.
23	10 15 33*	9 S.	67 E.	Chagos Islands region.
23	16 41 15**			Fiji Islands.
23	20 48 30*	15-1/2 S.	179 W.	Fiji Islands. h about 450 km. Mag. 7 - 7-1/4.
23	21 52 26**			Fiji Islands. h about 550 km.
24	02 27 29**			Gulf of California.
24	19 59 42*	5 S.	131 E.	Banda Sea.
25	00 50 33*	1 N.	97-1/2 E.	Near coast of Sumatra.
25	02 19 06**			About 700 miles northeast of Mascarene Islands.
26	08 30 18*	4 S.	126-1/2 E.	Boeroe Island, Banda Sea.
26	17 46 34*	24 S.	67 W.	Northern Chile-Argentina border. Felt at Antofagasta. h about 200 km.
26	20 21 14*	19 S.	178-1/2 W.	Fiji Islands. h about 550 km. Mag. 6-1/2.
27	13 09 42**			Near coast of northern Sumatra.
27	16 50 05**			Guerrero, Mexico.
27	16 56 49*	6-1/2 S.	129-1/2 E.	Banda Sea. h about 200 km.
27	17 55 56**			Marshall Islands.
28	01 44 26*	27-1/2 N.	44-1/2 W.	North Atlantic Ocean.

Date 1956	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
May	h m s	° '	° '	
28	03 38 37**			Near coast of northern Chile. Felt at Antofagasta.
28	09 14 59*	13 N.	124-1/2 E.	North of Samar Island, Philippine Islands. Felt at Virac
28	13 23 17*	1 N.	122 E.	Northern Celebes. h about 100 km.
29	06 29 21*	4-1/2 S.	103 E.	Near south coast of Sumatra. h about 100 km.
29	14 45 09*	22-1/2 S.	71 W.	Near coast of northern Chile.
29	17 48 26*	14-1/2 S.	72-1/2 W.	Southern Peru. h about 100 km.
30	15 41 57*	23 S.	178-1/2 W.	Tonga Islands region. h about 350 km.
30	18 37 10**			About 100 miles off north coast of New Guinea.
31	08 55 45**			Salta Province, Argentina. Minor damage at Salta.
31	14 50 13*	45-1/2 N.	151 E.	Kurile Islands.
31	21 00 50**			Fiji Islands. h about 60 km.

Date and Station		Phase	(GCT) h m s
May 1			
BOZ	iP'		03 01 15
	eP'		01 32
BC	eP'		03 01 14
	iPKS		04 46
BUT	iP'		03 01 16
COL	iPP		03 00 11
COLU	iP'		03 01 53
EUR	eP'		03 00 55
	iP'		01 16
	i		01 35
	iPKS		04 36
HH	iP'		03 01 08
	i		01 26
	e		02 06
	e(PKS)		04 13
RC	eP'		03 01 10
	e		01 18
	iPP		04 49
SLC	eP'		03 01 21
	e		01 39
	iPKS		04 44
	e		05 06
SJ	iP'		03 02 57
TUC	eP'		03 01 24
	iP'		01 35
	iPKS		05 02
WASH	iP'		03 01 46
	e		01 59
	e		03 06
	ePP		05 06
May 1			
BC	e(P)		05 49 16
May 1			
EUR	iP		06 48 11
	iS		48 35
	iL		48 45
May 1			
EUR	iP		07 08 17
May 1			
HH	e(P)		07 47 45
May 1			
BOZ	eP		08 35 18
	e		35 41
HH	e(P)		08 35 48
	i		36 28
May 1			
BOZ	eP'		11 25 19
EUR	iP'		11 25 06
HH	eP'		11 25 18
RC	eP'		11 25 25
May 1			
BOZ	eP		13 10 26
	e		10 39
BC	iP		13 09 49
BUT	e(P)		13 10 24
EUR	iP		13 09 54
HH	eP		13 10 24
RC	eP		13 10 45
	i		10 59
SLC	eP		13 10 11
TUC	eP		13 09 53
	eL		37 10
May 1			
COL	iP		15 10 27
May 1			
EUR	eP		16 50 21
May 1			
RC	e(P)		21 04 23
May 1			
EUR	iP		21 51 10
	i		51 27
HH	e(P)		21 50 37
May 1			
HH	i(P)		22 31 31
May 1			
BC	iP		22 32 02
	eS		32 09
	eL		32 27
May 2			
COL	iP		02 43 23
May 2			
BOZ	iP		06 45 52
	epP		47 42
BC	iP		06 46 07
	epP		47 52
BUT	iP		06 45 47
EUR	iP		06 45 55
	ipP		47 43
HH	iP		06 45 38
	ipP		47 25
	esP		48 16
	ePP		48 34
	e		55 07
	e(PKKP)		07 15 40
RC	iP		06 46 20
SLC	iP		06 46 03
	epP		47 54
TUC	eP		06 46 30
UK	eP		06 45 29
	epP		47 18
May 2			
HH	e(P)		14 13 50
May 2			
HH	e(P)		18 54 39
May 2			
HH	i(P)		22 35 06
May 2			
BC	iP		22 39 03
	eS		39 08
	eL		39 27
May 3			
HH	eP		00 04 16
May 3			
RC	eP		00 10 50
May 3			
HH	eP		00 16 38
May 3			
COL	eP		02 24 54
HH	eP		02 22 52
RC	eP		02 22 04
SLC	e(P)		02 22 10
SJ	eP		02 18 10
TUC	eP		02 21 08
	i		21 24
May 3			
BOZ	e(P)		03 04 29
COL	iP		03 01 18
	eL		02 31
HH	eP		03 03 36
	eL		08 29
RC	e(P)		03 05 10
SIT	eP		03 00 03
	eS		00 26
	eL		00 30
May 3			
HH	i(P)		20 44 14
May 3			
COL	iP		23 45 55
May 4			
HH	iP		01 07 24
May 4			
UK	iP		02 33 44
May 4			
TUC	eP		03 11 05
	eL		12 12
May 4			
BUT	iP		03 34 43
	e		36 49
	eL		04 00 40
May 4			
HH	e(P)		05 50 08
May 4			
TUC	eP		06 11 13
	e		11 20
May 4			
TUC	eP		06 22 32
May 4			
COL	iP		13 17 14
May 4			
HH	e(P)		13 50 11
TUC	eP		13 47 48
	eL		53 15
May 4			
BOZ	eP		13 56 22
BC	eP		13 55 20
	e		55 55
COL	iP		14 00 00
	eL		15 40
HH	eP		13 56 50
RC	eP		13 55 57
	eL		05 00
SLC	e(P)		13 55 44
TUC	eP		13 54 25
	e		54 30
	iL		14 00 06
May 4			
HH	e(P)		14 03 24
TUC	eP		14 04 51
May 4			
BC	eP		14 26 27
COL	iP		14 27 05
HH	eP		14 27 07
TUC	eP		14 26 30

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Date and Station		Phase (GCT) h m s
May 4		
BC	e(P)	14 48 40
May 4		
BC	iP	18 09 11
	eL	09 45
May 4		
HH	e(P)	18 18 33
May 4		
COL	iP	18 57 09
HH	e(P)	18 59 15
May 4		
EUR	eP	19 15 08
May 4		
HH	eP	20 47 21
May 4		
HH	e(P)	21 11 23
May 4		
BC	iP	22 37 45
	eL	38 30
May 5		
BOZ	iP	03 34 48
COL	iP	03 34 44
	ipP	35 01
	iS	44 58
	eL	58 46
EUR	iP	03 34 13
HH	iP	03 34 45
	ePP	38 09
RC	iP	03 35 07
	ePP	38 29
SLC	iP	03 34 31
TUC	iP	03 34 12
	epP	34 34
	esP	34 52
	eL	55 11
May 5		
BC	iP	10 03 29
EUR	iP	10 03 32
HH	e(P)	10 03 51
TUC	eP	10 03 41
May 5		
BOZ	iP	12 51 31
BC	iP	12 50 59
	esP	51 57
BUT	iP	12 51 34
	ipP	52 01
	i(sP)	52 12
BUT	iS	13 01 46
	eL	13 23
EUR	iP	12 51 17
	eP'P'	13 18 05
	eSKPP'	21 21
HH	iP	12 51 47
	ipP	52 14
	isP	52 25
	e(S)	13 02 02
	iSS	09 47
	e(sSS)	10 36
	eP'P'	17 45
RC	iP	12 51 07
	esP	51 49
SLC	iP	12 51 11
SJ	e(P)	12 47 34
	epP	47 57
TUC	iP	12 50 30
	epP	50 54
	esP	51 09
UK	eP	12 51 35
May 5		
COL	iP	18 32 40
EUR	iP	18 36 22
HH	eP	18 35 46
May 5		
HH	e(P)	19 42 37
May 5		
COL	iP	19 55 13
HH	e(P)	19 48 52
May 5		
HH	e(P)	20 31 24
	i(S)	32 17
	iL	32 21
May 5		
COL	iP	20 53 57
HH	eP	20 54 49
May 5		
HH	e(P)	22 34 00
May 5		
HH	i(P)	22 38 39
May 6		
EUR	eP	02 53 53
HH	eP	02 53 47
	e	57 46
May 6		
EUR	eP	04 00 42
May 6		
SJ	iP	10 20 44
	e	21 46
May 6		
COL	eP	20 56 27
May 6		
BC	eP	21 04 35
	eS	10 27
BUT	eP	21 04 04
	ePcP	05 59
	iPcP	06 50
	eS	09 12
	eL	11 05
COL	iP	21 00 23
	i	00 32
	iS	02 44
	iL	03 01
	i	04 38
COLU	eP	21 07 16
	eS	15 15
	e	15 34
	eScS	17 23
	eL	25 20
EUR	iP	21 04 09
	i	07 00
	eS	09 39
	i	10 26
HONO	eL	21 12 25
	eT	38 29
HH	eP	21 03 33
	i	03 47
	e	05 03
	ePcP	06 31
	eL	10 13
RC	eP	21 04 50
SLC	eP	21 04 37
SJ	eP	21 09 23
	i	09 39
TUC	eP	21 05 16
	e	05 23
	eL	17 06
UK	eP	21 03 37
May 6		
BC	iP	22 13 44
COL	iP	22 09 51
COLU	e(P)	22 15 32
EUR	eP	22 13 12
	i	13 24
HH	iP	22 12 44
RC	eP	22 14 38
SLC	eP	22 13 34
TUC	e(P)	22 14 03
	e	14 14
May 6		
COL	eP	22 29 25
May 6		
COL	eP	23 35 15
May 7		
EUR	iP	01 34 56
HH	eP	01 35 23
	e	36 23
May 7		
HH	e(P)	04 16 48
May 7		
BOZ	eP	08 23 48
BUT	eP	08 24 03
	iPP	25 27
	iPcP	26 16
COL	iP	08 27 16
	ipP	27 51
COLU	iP	08 21 41
	ipP	22 17
	eS	25 38
	i	26 08
	eL	26 25
EUR	iP	08 23 30
	iPcP	26 06
	eScP	29 45
HONO	eP	08 27 43
HH	eP	08 24 16
	e	24 42
	iPcP	26 22
	iScP	30 04
RC	eP	08 23 12
	e(pP)	24 07
SLC	iP	08 23 18
	ePP	24 24
	iPcP	26 03
	iL	29 41
SJ	eP	08 21 59
TUC	iP	08 22 19
	e	25 08
	iPcP	25 47
	iScP	29 20
	e	31 05
UK	eP	08 23 05
	e	26 20
May 7		
HH	e(P)	08 59 59

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Date and Station		Phase (GCT) h m s
HH	e	09 00 08
	e(S)	00 41
	iL	00 53
May 7		
BOZ	eP'	11 18 28
	eP'	19 09
BUT	eP'	11 18 24
	e	19 41
	eSKKS	29 30
	eSS	43 49
	eSSS	49 40
	eL	12 06 45
COL	eP'	11 17 51
	ePP	20 24
	ePKS	21 15
	eSS	39 11
	eSSS	44 22
	eL	54 49
COLU	eP'	11 18 28
	e	20 16
	ePP	23 26
	eSKKS	29 54
	eSKKKS	31 18
	eSKSP	33 47
	eSS	43 51
	e	48 10
	eL	12 08 18
EUR	eP'	11 18 17
	iP'	18 56
	i	24 29
HH	eP'	11 18 20
	eP'	19 00
	ePP	22 41
	i	25 05
PHIL	e(P')	11 18 10
	iPP	23 41
	eSS	44 52
	eL	12 17 35
RC	eP'	11 18 25
	ePP	23 36
SLC	eP'	11 18 23
	eP'	19 02
	ePP	22 47
	eSKS	25 04
	e(SKKS)	29 42
	eL	12 13 20
SJ	eP'	11 18 06
TUC	eP'	11 18 17
	ePP	22 20
	eL	12 10 12
UK	eP'	11 18 13
	e(SKS)	24 41
WASH	eP'	11 18 33
	eP'	20 02

Date and Station		Phase (GCT) h m s
WASH	iPP	11 23 42
	i	27 46
	e	28 30
	eSKKS	30 48
	e	41 24
	eSSS	52 14
	eL	12 09 14
May 7		
HH	e(P)	17 56 44
	e	57 16
May 7		
HH	eP	18 12 27
May 7		
BC	e(P)	18 52 16
BUT	eP	18 52 05
COL	iP	18 50 19
EUR	iP	18 52 06
HH	iP	18 52 01
May 7		
HH	e(P)	22 47 38
May 8		
COL	iP	03 19 15
HH	e(P)	03 21 15
May 8		
HH	e(P)	04 13 57
May 8		
BOZ	eP	07 26 01
COL	iP	07 26 47
	epP	27 08
EUR	iP	07 26 29
HH	iP	07 26 56
TUC	iP	07 26 30
May 8		
TUC	eP	07 52 42
May 8		
BUT	i(P)	10 55 19
	i	55 39
COL	eP	10 53 52
EUR	eP	10 56 23
HH	iP	10 55 18
RC	eP	10 55 32
TUC	eP	10 57 05
May 8		
BC	eP	13 00 35

Date and Station		Phase (GCT) h m s
BOZ	eP	12 59 38
	epP	13 01 10
COL	iP	12 59 30
	epP	13 01 02
EUR	iP	12 59 06
	epP	13 00 37
HH	e(P)	13 01 08
TUC	e(P)	12 59 07
	ipP	13 00 40
May 8		
HH	e(P)	13 17 07
May 8		
COL	iP	14 09 43
HH	e(P)	14 09 52
May 8		
HH	iP	14 44 01
May 8		
HH	e(P)	15 49 03
May 8		
BC	iP	19 49 34
BOZ	eP	19 50 53
EUR	iP	19 51 08
HH	eP	19 51 20
TUC	eP	19 48 35
	e	48 42
	e	55 02
May 8		
COL	iP	20 01 24
May 8		
COL	iP	21 02 46
May 8		
HH	e(P)	23 39 05
May 9		
EUR	eP	00 23 01
May 9		
HH	eP	02 58 51
May 9		
HH	eP	03 35 00
May 9		
EUR	iP	06 57 50
	i	58 15
May 9		
EUR	iP	09 53 31
May 9		
HH	e(P)	10 29 35

Date and Station		Phase (GCT) h m s
UK	eP	10 26 41
May 9		
BC	e(P)	12 53 32
	eL	54 38
TUC	eP	12 53 26
	e	53 46
	iL	54 26
May 9		
HH	eP	14 01 54
May 9		
HH	e(P)	17 32 13
May 9		
HH	i(P)	20 45 10
May 10		
BC	iP	05 57 56
EUR	iP	05 57 46
HH	eP	05 57 40
	ePP	06 01 07
TUC	eP	05 58 15
May 10		
BC	iP	11 50 01
	i	50 18
	iL	51 14
BOZ	eP	11 52 31
EUR	iP	11 50 50
	e(S)	52 37
	iL	52 54
HH	eP	11 52 52
TUC	eP	11 50 03
	e	50 19
	iL	51 10
May 10		
BC	iP	12 27 46
BOZ	e(P)	12 27 21
EUR	iP	12 27 27
HH	iP	12 26 58
RC	iP	12 27 52
TUC	e(P)	12 28 17
May 10		
TUC	eP	16 15 14
May 10		
BOZ	eP	16 43 36
EUR	iP	16 43 29

Date and Station		Phase (GCT) h m s
HH	iP	16 42 56
	iPcP	45 48
	e	46 05
RC	eP	16 44 10
SJ	iP	16 48 43
May 10		
BC	iP	18 22 07
BUT	iP	18 20 52
HH	eP	18 20 36
	e(PP)	22 35
RC	eP	18 20 56
SLC	eP	18 21 31
TUC	eP	18 22 29
May 10		
EUR	iP	18 41 44
May 10		
HH	eP	23 22 35
May 11		
EUR	iP	02 15 18
TUC	eP	02 13 39
May 11		
BC	eP'	15 55 16
	e	55 29
BOZ	iP'	15 55 27
EUR	iP'	15 55 21
HH	iP'	15 55 31
	i	55 46
	e	58 51
	e	59 07
RC	eP'	15 55 17
SJ	eP'	15 48 51
TUC	e(P')	15 55 07
May 11		
EUR	iP	16 05 14
May 11		
BC	iP	16 31 29
	iS	31 56
BOZ	eP	16 33 51
EUR	iP	16 32 12
	i	32 28
HH	eP	16 34 16
	eL	38 28
RC	eP	16 34 44

Date and Station		Phase (GCT) h m s
SLC	eP	16 32 51
	e	33 10
	e(S)	34 35
	eL	34 52
TUC	eP	16 32 09
	e	32 21
	eS	33 08
	eL	33 36
	iL	33 42
May 11		
COLU	e(P)	21 01 23
HH	e(P)	21 02 32
RC	eP	21 03 41
	i	04 25
May 11		
HH	e(P)	21 29 25
May 11		
HH	e(P)	21 34 14
May 12		
EUR	iP	02 46 07
HH	eP	02 45 45
May 12		
HH	e(P)	08 50 42
May 12		
BC	eP	09 56 54
BOZ	eP	09 56 25
BUT	iP	09 56 49
COL	iP	09 53 41
EUR	iP	09 56 29
HH	iP	09 56 08
RC	eP	09 56 52
TUC	eP	09 57 08
May 12		
BC	eP	11 29 06
	eL	30 04
EUR	iP	11 29 36
May 12		
HH	e(P)	13 37 42
May 12		
BOZ	iP	15 24 34
HH	eP	15 24 58
May 12		
BOZ	eP	16 11 15
May 12		
SLC	eP	19 56 38

Date and Station		Phase (GCT) h m s
May 12		
HH	eP	20 51 44
May 12		
COL	iP	21 48 15
EUR	iP	21 51 30
HH	eP	21 51 03
May 13		
SLC	iP	03 13 56
	iL	14 23
TUC	eP	03 15 36
May 13		
BC	e(P)	04 11 25
	eL	12 22
BOZ	e(P)	04 12 41
	eL	14 35
EUR	iP	04 10 36
HH	e(P)	04 13 04
	eL	15 04
SLC	eP	04 11 46
	e(S)	12 37
	iL	12 51
May 13		
COL	eP	04 33 06
EUR	eP	04 36 45
HH	eP	04 35 39
RC	eP	04 36 17
TUC	e(P)	04 37 38
May 13		
COL	iP	06 47 37
	i	48 00
	i	48 25
	i	49 20
HH	eP	06 50 46
	eL	56 55
May 13		
COL	iP	07 58 42
	iS	59 09
	iL	59 12
HH	e(P)	08 03 18
May 13		
BOZ	eP'	08 07 59
COL	iP	08 02 49
	e(S)	13 06
	eL	30 54
EUR	e(P')	08 08 31
	ePP	09 38

Date and Station		Phase (GCT) h m s
HH	e(P)	08 04 36
	eP'	07 42
	ePP	08 35
RC	eP'	08 08 13
	ePP	09 13
TUC	eP'	08 09 24
	ePP	10 26
	eL	58 32
May 13		
COL	eP	08 11 30
May 13		
BC	eP	09 06 33
COL	eP	09 02 29
EUR	iP	09 06 08
HH	eP	09 05 02
	i	05 09
RC	eP	09 05 41
TUC	eP	09 07 02
May 13		
EUR	iP	09 18 17
May 13		
BOZ	iP	09 21 45
	i(S)	21 58
	iL	22 02
HH	eP	09 22 30
	i	22 41
	i(S)	23 31
	iL	23 37
May 13		
EUR	eP	09 46 05
RC	eP	09 47 09
May 13		
SJ	eP	14 36 52
	i	37 06
TUC	eP	14 39 44
May 13		
BC	e(P)	14 44 07
COL	iP	14 39 54
	eS	44 38
	eL	46 43
EUR	iP	14 43 32
	e(PcP)	44 39
HH	eP	14 41 16
	i	41 25
	ePP	42 27
RC	eP	14 43 03
TUC	iP	14 44 24

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

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Date and Station		Phase (GCT) h m s
May 16		
HH	e(P)	22 35 28
May 16		
HH	e(P)	22 46 00
May 16		
BOZ	iP	23 00 54
	i	01 12
HH	eP	23 01 37
	i	01 41
	iS	02 20
	iL	02 24
May 17		
HH	e(P)	00 11 35
May 17		
COL	iP	00 13 41
	epP	19 31
HH	e(P)	00 20 27
May 17		
COL	eP	01 09 55
EUR	eP	01 12 44
HH	e(P)	01 11 30
May 17		
TUC	e(P)	03 01 17
May 17		
COL	eP	03 32 17
EUR	eP	03 35 36
HH	eP	03 35 07
May 17		
EUR	iP	03 51 56
HH	e(P)	03 50 48
May 17		
COL	iP	04 50 34
	i	50 52
EUR	iP	04 53 58
May 17		
BOZ	iP	06 11 12
	epP	11 25
BUT	iP	06 11 21
COL	iP	06 13 32
	ePP	17 11
COLU	iP	06 08 57
	ipP	09 11
	eS	16 10
	eL	20 30
EUR	iP	06 11 00
	eP'P'	39 11
HH	iP	06 11 33
	epP	11 46
	ePP	14 32
RC	iP	06 10 45
	ipP	11 03
	eP'P'	39 22
SLC	eP	06 10 52
	ipP	11 11
	isP	11 26
	eP'P'	39 29
SJ	iP	06 06 50
	iPP	08 14
	ePcP	09 21
TUC	iP	06 10 07
	epP	10 23
	ePP	12 06
	eL	28 18
	eP'P'	39 38
May 17		
COL	iP	06 54 56
	e	55 07
May 17		
COL	eP	07 17 32
May 17		
TUC	e(P)	09 50 38
May 17		
COL	eP	11 23 10
	i	23 32
	i	24 55
HH	eP	11 26 16
	e	27 22
May 17		
BOZ	e(P)	14 22 12
	e	22 20
COL	iP	14 22 12
EUR	iP	14 20 38
	i	20 46
HH	eP	14 22 10
SLC	eP	14 21 57
May 17		
TUC	e(P)	15 53 15
May 17		
EUR	eP	19 29 19
	e	29 49
HH	iP	19 29 48
	i	30 18
RC	eP	19 29 03
May 17		
COL	iP	21 13 53
	i	14 07
EUR	eP	21 17 31
HH	iP	21 16 58
	i	17 19
	iPP	18 43
	e	19 00
	ePcS	22 28
RC	eP	21 18 17
May 17		
EUR	iP	23 12 03
HH	eP	23 11 40
	i	11 54
May 17		
COL	eP	23 43 32
EUR	iP	23 47 01
HH	e(P)	23 46 30
May 18		
EUR	eP	03 43 11
HH	eP	03 42 15
	i	42 27
	i(S)	43 05
	iL	43 16
May 18		
COLU	e(P)	04 58 54
	e	59 21
EUR	iP	05 00 46
HH	e(P)	05 01 31
May 18		
BOZ	eP	08 30 26
COL	iP	08 31 13
	ipP	33 20
EUR	iP	08 30 55
HH	e(P)	08 31 23
TUC	iP	08 30 57
May 18		
COL	eP	09 22 09
May 18		
COL	iP	09 22 44
May 18		
HH	e(P)	09 36 34
	eL	37 09
May 18		
BOZ	e(P)	10 00 32
	epP	00 54
	eL	07 56
BUT	e(P)	10 00 14
	isP	00 48
	eS	04 51
	eL	07 20
COL	iP	09 55 59
	i3	56 31
	iL	56 48
COLU	e(P)	10 04 09
	eL	19 56
EUR	eP	10 01 00
	ipP	01 22
	i(PcP)	04 27
HH	eP	10 00 00
	ipP	00 22
	isP	00 31
	e	02 28
	eL	06 50
RC	eP	10 01 17
	eL	11 15
SLC	e(P)	10 01 04
	ipP	01 26
SIT	eP	09 56 38
	iS	58 09
	iL	58 42
TUC	eP	10 02 14
	ipP	02 35
May 18		
EUR	eP	10 15 12
May 18		
EUR	eP	12 28 10
HH	eP	12 28 52
RC	eP	12 27 58
May 18		
COL	eP	13 13 31
May 18		
COL	iP	14 10 15
	i	10 52
May 18		
COL	eP	16 06 30
EUR	iP	16 10 31
May 18		
COL	eP	16 31 02
	epP	33 03
EUR	iP	16 35 02
May 18		
COL	eP	17 30 46
	e	31 05
	i	31 25
	i	32 25
	iL	32 52
May 18		
BOZ	e(P)	17 52 36

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Date and Station		Phase	(GCT) h m s
EUR		iP	17 51 37
TUC		e(P)	17 50 18
May 18			
RC		eP	17 57 14
May 18			
COL		eP	21 21 48
May 18			
COL		iP	21 43 11
		iS	44 05
		iL	44 12
HH		eP	21 46 10
		e	46 26
May 18			
COL		iP	22 04 39
EUR		iP	22 01 45
May 18			
BOZ		eP	22 21 12
		e	21 28
COL		eP	22 20 18
COLU		eP	22 20 33
EUR		eP	22 21 52
HH		eP	22 21 05
SJ		eP	22 20 33
May 18			
EUR		eP	22 51 58
		i	52 33
May 18			
COL		iP	23 09 05
May 19			
BC		eP	00 34 06
BOZ		e(P)	00 34 55
COL		iP	00 33 42
EUR		iP	00 34 06
		i	34 30
HH		eP	00 34 25
SLC		eP	00 34 31
		eL	01 08 14
TUC		eP	00 34 35
		eL	01 03 12
May 19			
HH		e(P)	00 51 43
May 19			
BC		eP	01 43 57

Date and Station		Phase	(GCT) h m s
BC		e	01 44 10
		e(PP)	48 07
		e?'P'	02 09 05
BOZ		e(P)	01 44 39
		eP'P'	02 09 10
		eL	16 14
BUT		e(P)	01 44 11
		eS	55 22
		ePPS	57 04
		eSS	02 01 08
		eSSS	05 33
		eL	15 22
COL		iP	01 43 02
		i	43 26
		eS	53 17
		e(SS)	59 15
		eL	02 05 19
COLU		eP'	01 49 41
		ePP	51 13
		ePS	02 00 57
		eL	25 55
EUR		iP	01 43 55
		ePKKP	02 01 05
		i	01 16
		eP'P'	08 36
		iP'P'	09 18
HONO		e(P)	01 40 18
HH		e(P)	01 44 16
		eP'	47 20
		ePP	48 02
		ePKKP	02 01 11
		eP'P'	09 23
RC		ePP	01 49 04
		eL	02 19 22
SLC		e(P)	01 44 10
		eP	44 22
		ePP	48 20
		e(PS)	57 04
		eP'P'	02 09 22
		eL	17 11
SJ		eP'	01 50 06
		e	50 16
TUC		e(P)	01 45 17
		iPP	48 12
		e(SS)	02 02 38
		eP'P'	09 12
		eL	13 04
May 19			
BOZ		e(P)	03 14 38
		e	15 27
May 19			
BC		iP	06 33 58
BOZ		eP	06 34 51
COL		iP	06 38 22

Date and Station		Phase	(GCT) h m s
COL		i(PcP)	06 39 04
COLU		eP	06 33 15
EUR		iP	06 34 26
HH		eP	06 35 18
TUC		iP	06 33 12
		i	33 30
		iL	40 43
May 19			
BC		eP	08 23 30
		i	23 32
		e	24 35
BOZ		e(P)	08 22 54
COL		iP	08 19 03
		eS	21 39
		eL	22 03
EUR		iP	08 23 02
HH		eP	08 22 25
		e	25 33
RC		eP	08 23 38
TUC		eP	08 24 11
		e	26 10
May 19			
BC		eP	08 30 36
		e	30 40
EUR		iP	08 30 52
SJ		eP	08 23 13
		i(S)	24 33
		iL	24 40
May 19			
COL		e(P)	08 50 29
		iP	50 36
May 19			
COL		iP	14 27 05
May 19			
EUR		eP	14 55 30
May 19			
EUR		iP	17 45 15
May 19			
BC		eP'	20 22 17
		i	22 36
		ePP	26 52
BOZ		eP'	20 22 12
		eL	21 04 14
BUT		eP'	20 22 22
		ePP	27 19
		eSKKKS	33 49
		e	35 12
		ePPPS	40 34

Date and Station		Phase	(GCT) h m s
BUT		e(SS)	20 48 16
		eL	21 00 22
CHI		ePKS	20 25 39
		ePPS	37 15
		eSS	43 59
		eL	21 01 39
COL		eP'	20 22 08
		iP'	22 34
		ePKS	27 02
		e(SKSP)	35 46
		eSSS	53 07
		eL	21 02 16
COLU		eP'	20 21 33
		ePP	24 21
		ePKS	25 21
		e(SKS)	28 12
		eL	21 05 00
EUR		iP	20 22 14
		i	23 14
		i	26 18
		iPP	27 06
HONO		eP'	20 22 22
HH		eP	20 22 10
		i	23 10
		e	25 47
		ePP	27 04
RC		eP'	20 22 04
		e	22 32
SLC		eP'	20 22 16
		i	23 25
		iPKS	27 07
		eL	21 12 58
TUC		eP'	20 22 07
		e	22 42
		i	23 17
		i	24 26
		ePP	26 20
		i	27 17
		eL	54 07
WASH		eP'	20 21 54
		iPP	24 27
		ePKS	25 22
		e	26 18
		e(SKKKS)	32 10
		e	38 46
May 19			
COL		iP	20 58 55
May 19			
BC		e(P)	21 54 16
		eL	58 02
COL		iP	21 59 16
EUR		eP	21 55 12
		i	55 34

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Date and Station		Phase (GCT)
		h m s
TUC	eP	21 53 40
May 19		
RC	eP	22 40 12
May 20		
COL	iP	00 18 48
May 20		
BC	eP	00 55 08
	e	55 15
BOZ	eP	00 55 55
EUR	iP	00 55 41
HH	eP	00 56 43
TUC	eP	00 54 12
	eL	59 05
May 20		
COL	iP	04 23 08
	iS	23 44
	iL	23 56
EUR	iP	04 28 11
HH	iP	04 27 16
	e	27 44
May 20		
BOZ	eP	06 08 28
EUR	eP	06 07 26
	i	07 34
HH	e(P)	06 08 23
	e	08 34
May 20		
BC	eP	08 38 56
	eL	39 30
May 20		
COL	eP	09 07 04
May 20		
BUT	iP	12 43 17
May 20		
RC	eP	12 51 51
TUC	eP	12 51 11
May 20		
EUR	eP	14 01 01
May 20		
COL	iP	15 53 19
	i	53 45
May 20		
BOZ	eP	18 02 37
COL	iP	18 01 00
EUR	iP	18 02 17
	i	02 33

Date and Station		Phase (GCT)
		h m s
HH	iP	18 02 24
RC	eP	18 03 08
SLC	eP	18 02 35
May 20		
HH	e(P)	23 30 28
May 21		
BC	iP	00 40 54
	ipP	41 21
BOZ	iP	00 41 23
	ipP	41 50
BUT	iP	00 41 30
	ipP	41 57
COLU	iP	00 39 10
	ipP	39 36
	eS	46 44
	esS	47 28
	eScS	48 46
	e	49 40
EUR	iP	00 41 11
	i	41 25
	ipP	41 38
HH	iP	00 41 42
	ipP	42 11
RC	iP	00 40 56
	epP	41 24
SLC	iP	00 41 05
	ipP	41 33
SJ	iP	00 36 58
	ipP	37 25
TUC	iP	00 40 22
	ipP	40 49
May 21		
COL	eP	02 35 07
May 21		
EUR	eP	08 12 03
May 21		
BC	iP	09 22 12
	e	22 24
	ipP	22 29
BOZ	iP	09 21 23
	epP	21 39
BUT	iP	09 21 15
COL	iP	09 17 06
EUR	iP	09 21 42
	ipP	22 00
	iPcP	24 38
HH	iP	09 20 53
	ipP	21 10

Date and Station		Phase (GCT)
		h m s
RC	iP	09 22 09
	e(pP)	22 24
SLC	eP	09 21 52
	ipP	22 09
TUC	eP	09 22 54
	ipP	23 12
May 21		
EUR	e(P)	09 28 15
May 21		
TUC	eP	10 23 28
May 21		
RC	eP	16 40 53
May 21		
TUC	e(P)	16 49 48
	e	50 08
May 21		
TUC	eP	17 06 30
	iL	07 35
May 21		
HH	e(P)	17 25 55
May 21		
COL	eP	18 09 01
May 22		
COL	iP	02 17 39
HH	e(P)	02 19 20
May 22		
BC	iP	03 12 51
	e	13 22
BOZ	iP	03 13 31
	iS	23 48
	eL	38 25
BUT	eP	03 13 27
	ePP	16 58
	eS	23 40
	iScS	24 18
	ePPS	25 08
	e(SS)	29 36
	e(SSS)	33 34
	eL	39 25
CHI	eSKS	03 25 10
	eL	46 38
COL	iP	03 13 27
	iS	23 40
	eScS	24 24
	eL	36 30
COLU	ePP	03 18 45
	iSKS	25 35
	e	25 37
	eS	25 51
	e	26 29
	eL	46 32

Date and Station		Phase (GCT)
		h m s
EUR	eP	03 12 56
	i	13 15
	i	13 27
HONO	eP	03 08 37
HH	eP	03 13 27
	i	13 44
	ePP	16 39
	e	17 03
	eP'P'	40 02
RC	iP	03 13 51
	e	14 03
	eS	24 19
	eL	42 17
SLC	eP	03 13 14
	eS	23 19
	eL	37 53
TUC	iP	03 12 56
	iPcP	13 16
	e(PP)	16 16
	eS	22 34
	i	22 42
	eL	34 42
UK	eP	03 12 29
WASH	eP	03 15 11
	e	18 33
	ePP	19 33
	e	20 10
	e	25 09
	eL	51 27
May 22		
COL	iP	03 58 45
RC	eP	03 54 52
May 22		
COL	eP	05 23 51
EUR	eP'	05 29 33
HH	eP'	05 29 26
SJ	iP'	05 31 32
May 22		
COL	eP	10 32 13
May 22		
EUR	eP	11 08 57
RC	eP	11 09 07
May 22		
RC	eP	13 26 39
May 22		
BC	iP	13 48 41
	epP	50 37
	ePP	52 31
	eSKS	58 36

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Date and Station		Phase (GCT) h m s
BOZ	eP	13 48 54
	epP	50 55
	e	51 37
	eSKS	58 44
	eS	59 32
COL	iP	13 47 35
	i	48 12
	ipP	49 31
	i	49 46
	isP	50 18
	iS	57 02
	isS	14 00 14
	eSS	02 27
	eL	09 03
EUR	iP	13 48 36
	e	50 15
	ipP	50 33
HONO	eP	13 44 55
HH	eP	13 48 45
	epP	50 42
	ePP	52 40
SJ	eP'	13 54 39
	i	54 46
	epP'	56 44
	isP'	57 36
	e(PKS)	58 24
TUC	eP	13 48 58
	epP	50 55
	ePP	53 02
May 22		
BC	eP	17 10 37
	eL	11 38
TUC	e(P)	17 10 10
	e	10 23
	eL	11 50
May 22		
COL	eP	18 30 10
	iP	30 17
May 22		
COL	iP	21 07 07
	i	07 28
EUR	eP'	21 14 03
HH	e(P)	21 09 09
May 22		
COL	iP	22 12 50
May 22		
RC	eP	22 29 03
May 22		
EUR	eP	22 59 19
May 22		
BC	e(P)	23 53 01

Date and Station		Phase (GCT) h m s
May 23		
HH	e(P)	00 10 11
May 23		
BC	e(P)	00 15 29
	eL	16 20
May 23		
RC	eP	01 22 16
May 23		
COL	iP	06 14 37
May 23		
TUC	eP	06 29 04
	e	29 22
May 23		
BC	iP	06 42 46
EUR	iP	06 42 51
SLC	eP	06 43 08
TUC	iP	06 42 51
May 23		
BC	eP	10 35 34
EUR	eP	10 35 21
	iP	35 25
HH	e(P)	10 35 35
RC	eP	10 35 10
SLC	eP	10 35 23
TUC	e(P)	10 35 40
May 23		
EUR	iP	12 14 03
May 23		
RC	eP	15 35 08
May 23		
BC	iP	16 53 23
COL	iP	16 53 46
	i	54 04
EUR	iP	16 53 27
May 23		
BOZ	e(P)	17 51 02
May 23		
EUR	eP	18 42 44
	iP	42 47
May 23		
BOZ	eP	20 15 48
May 23		
BC	iP	20 59 51C
	i(sP)	21 02 59
	iS	09 17

Date and Station		Phase (GCT) h m s
BOZ	iP	21 00 27D
	ipP	02 03
	iPP	03 53
	iSKS	10 16
	iS	10 32
	isS	13 20
	iSS	16 20
	iPKKP	18 36
	eSSS	22 02
	i	25 16
	eP'P'	26 33
	iL	28 12
BUT	iP	21 00 23C
	ipP	01 56
	iPP	03 48
	iSKS	10 08
	iSPP	11 58
	isS	13 12
	i(sPS)	14 36
	i	15 10
	iSS	16 04
	i(PKKP)	18 32
	eSSS	22 08
	iP'P'	26 37
	iSKPP'	29 17
	eL	29 46
	eP'P'P'	46 45
CHI	eP	21 01 31
	epP	03 11
	iPP	05 47
	iSKS	11 31
	iS	12 35
	iSP	14 23
	iSPP	15 31
	i(SS)	19 23
	isSS	22 11
	iSSS	24 47
	e	27 51
	eL	32 27
COL	iP	21 00 08
	ipP	01 50
	isP	02 29
	iSKS	09 50
	i	11 40
	isS	12 42
	iPKKP	17 52
COLU	eP	21 01 52C
	epP	03 37
	esP	04 18
	iPP	06 15
	iSKS	11 53
	e(SKKS)	12 38
	iS	13 12
	e	14 27
	esP	15 00
	esS	16 13
	ePKKP	17 36
	iSS	20 33
	esSS	23 07
	eL	33 40
EUR	iP	20 59 54C
	iPP	21 02 57
	ipPP	04 23

Date and Station		Phase (GCT) h m s
EUR	i(pPPP)	21 05 59
	iS	09 07
	iSKS	09 32
	i	11 25
	iPKKP	18 28
	iP'P'	26 35
	i	28 36
	i	28 52
	iSKPP'	29 37
	eL	41 04
HONO	iP	20 55 41C
	i	56 26
	ipP	57 03
	ePP	57 53
	iS	21 01 38
	i	03 16
	isS	04 05
	iSS	05 06
	iL	08 32

T_P = 3 sec. A = 6.3mm.
T_S = 8 sec. A = 14.5mm.
T_L = 15 sec. $A_{max.}$=5mm.

RC	iP	21 00 48D
	ipP	02 25
	iPP	04 27
	iSKS	10 43
	e(PS)	13 47
	eP'P'	26 16
	eL	27 27
SLC	iP	21 00 13D
	i(PcP)	00 38
	i	00 53
	ipP	01 50
	isP	02 32
	iPP	03 48
	ipPP	04 59
	iSKS	10 00
	iS	10 12
	isS	12 36
	i	12 54
	e(PPS)	15 37
	ePKKP	18 00
	eP'P'	26 34
	eL	28 51
	eSKPP'	29 13
	i	29 28
SJ	iP'	21 06 25C
	i	07 20
	iPP	07 40
	epPP	09 15
	iSKS	12 39
	i(SKKS)	13 50
	iS	14 46
	iPKKP	17 00
	iPS	17 48
	isPS	19 27
	e	19 42
	esSS	26 10
	eL	39 08
SIT	iP	20 59 58N,W
	epP	21 01 29
	ipP	01 35

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Date and Station		Phase (GCT)
		h m s
SIT	isP	21 02 16
	iPP	03 07
	ePPP	05 11
	iS	09 30
	i	10 46
	i	11 22
	isS	12 00
	i	12 24
	iSS	14 58
	esSS	17 02
	iL	30 31
TUC	iP	20 59 58C
	epP	21 01 36
	esP	02 19
	esPP	05 23
	iS	09 36
	iSP	10 18
	isS	12 20
	iSS	14 48
	eL	20 20
	iP'P'	25 50
	iSKPP'	29 30
UK	iP	20 59 28C
	e	21 00 08
	e(pP)	01 01
	iS	08 39
	eScS	09 02
	esS	11 19
	isS	11 22
	esSS	15 54
	eL	19 02
	eP'P'	26 58
WASH	iP	21 02 08
	ipP	03 48
	iP'	06 10
	iPP	06 40
	ePPP	09 00
	e(PS)	15 27
	iPS	15 50
	esPS	18 10
	eSS	22 06
	eSSS	31 12
	eL	35 38
May 23		
BC	eP	22 03 46
EUR	iP	22 03 49
SLC	eP	22 04 08
May 23		
COL	eP	22 41 13
May 23		
RC	eP	23 04 31
May 24		
BC	eP	02 30 06
	eS	31 08
	eL	33 13
BOZ	eP	02 32 00
	eS	35 51
	eL	38 19

Date and Station		Phase (GCT)
		h m s
BUT	eP	02 32 05
	iPP	32 36
	eS	35 59
	i	36 14
	eL	38 02
CHI	eS	02 37 04
	eL	39 20
COL	eP	02 35 50
COLU	eP	02 33 03
	e	33 16
	eS	37 41
	eL	40 17
EUR	iP	02 30 53
	i	32 25
	eS	33 22
	iL	35 03
RC	eP	02 31 41
	e(PP)	32 21
	eL	37 31
SLC	eP	02 31 02
	iP	31 07
	eS	34 11
	eL	35 36
SJ	iP	02 35 16
TUC	eP	02 23 59
	i	29 28
	e(S)	30 10
	iL	30 54
May 24		
EUR	eP	04 22 54
May 24		
BC	eP	04 58 14
COL	iP	04 58 34
EUR	iP	04 58 15
SLC	eP	04 58 35
May 24		
EUR	iP	05 24 03
	i	24 11
May 24		
COL	eP	06 57 56
EUR	eP	07 01 08
May 24		
COL	eP	14 02 57
May 24		
COL	eP	18 04 37
May 24		
COL	iP	20 12 49
EUR	e(P)	20 14 33

Date and Station		Phase (GCT)
		h m s
May 24		
EUR	iP	20 29 21
	i	29 31
May 24		
COL	iP	20 46 41
May 24		
BOZ	eP	21 09 17
May 24		
COL	iP	23 48 02
May 25		
EUR	eP'	01 09 44
RC	ePKS	01 13 12
SJ	eP'	01 10 53
TUC	ePKS	01 13 30
May 25		
COL	iP	01 30 13
May 25		
BOZ	eP'	02 39 02
BUT	eP'	02 39 04
EUR	eP'	02 39 07
RC	eP'	02 39 01
SLC	eP'	02 39 03
May 25		
EUR	eP	12 26 09
May 25		
RC	eP	18 51 48
May 25		
HH	e(P)	21 20 40
May 25		
BOZ	eP	22 57 14
May 25		
BOZ	eP	23 36 10
May 26		
RC	eP	01 56 13
May 26		
COL	eP	02 28 16
EUR	iP	02 31 57
HH	eP	02 30 51
RC	eP	02 31 39
May 26		
COL	eP	04 58 21
May 26		
BC	eP'	08 49 12
	ePP	50 10

Date and Station		Phase (GCT)
		h m s
BUT	eP'	08 49 44
COL	iP	08 43 30
	e	44 27
EUR	eP'	08 43 52
	ePP	49 38
HH	eP'	08 48 47
	ePP	49 58
RC	eP'	08 49 16
	e(PP)	51 12
SLC	eP'	08 49 06
SJ	e(P')	08 51 10
	i	51 20
May 26		
BC	eP	10 19 16
	e	19 39
	e(S)	20 01
	iL	20 39
TUC	eP	10 19 10
	e	19 29
	e(S)	20 04
	eL	20 24
May 26		
COL	eP	11 57 35
May 26		
HH	e(P)	12 39 06
	e	39 38
May 26		
COL	iP	12 51 04
EUR	iP	12 54 24
HH	eP	12 53 54
RC	eP	12 54 50
May 26		
BC	eP	17 57 56
EUR	iP	17 58 14
	ipP	59 00
HH	iP	17 58 42
	epP	59 29
	iPP	18 02 11
RC	eP	17 58 01
	epP	58 47
SLC	eP	17 58 08
SJ	eP	17 54 08
TUC	iP	17 57 28
May 26		
COL	eP	18 02 59

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Date and Station		Phase (GCT)
		h m s
May 26		
COL	eP	18 51 15
EUR	eP	18 52 33
HH	eP	18 51 50
May 26		
BC	iP	20 32 37
	i	33 06
	ipP	34 48
	eS	42 02
	eP'P'	58 57
	eSKPP'	21 01 47
BOZ	eP	20 33 14
	i	33 17
	ipP	35 33
	iPP	36 55
	eSKS	42 49
	iS	43 16
	esP	44 08
	eSS	47 10
	eL	57 43
	eP'P'	59 04
BUT	iP	20 33 11
	ipP	35 25
	i(sP)	35 46
	iPP	37 08
	iSKS	42 39
	i	42 44
	i	43 04
	iS	43 09
	iSP	44 09
	isS	46 14
	iSS	49 09
	esSS	52 17
	eL	58 53
	eP'P'	59 05
CHI	ePP	20 38 44
	iSKS	44 00
	i	44 48
	iS	45 12
	iSP	46 48
	iPS	48 08
	esS	49 16
	eSS	52 36
	eL	21 21 12
COL	iP	20 33 02
	iPcP	33 11
	i	33 21
	ipP	35 18
	i	35 21
	i	35 40
	iPP	36 39
	iSKS	42 34
	iPKKP	50 57
	iP'P'	58 54
	iSKPP'	21 01 29
	i	15 06
	eP'P'P'	20 15
COL	iSKS	20 42 30
	iS	42 48
	iSP	43 51

Date and Station		Phase (GCT)
		h m s
COL	esS	20 46 42
	eSS	49 02
	e(SSS)	53 41
COLU	ePP	20 39 03
	eSKS	44 16
	eSKKS	45 08
	eS	45 50
	eSP	47 33
	eSPP	48 43
	iPKKP	50 08
	i	50 27
	eSS	53 25
	eL	21 08 22
EUR	iP	20 32 37
	ipP	34 53
	isP	35 59
	iPP	36 08
	iS	42 02
	iPKKP	51 04
	eP'P'	58 53
	iP'P'	59 07
	iSKPP'	21 01 33
HONO	eP	20 28 45
	i	29 07
	iPcP	29 42
	e	32 37
	eScP	33 13
	eS	34 40
	eScS	37 24
	eL	38 19
HH	iP	20 33 10
	ipP	35 30
	iPP	36 50
	iSKS	42 40
	i(PKKP)	50 52
	eP'P'	58 50
	iP'P'	58 59
	eSKPP'	21 01 04
PHIL	iSKS	20 44 40
	eS	45 46
	i	46 39
	iPS	48 37
	esSS	57 16
RC	iP	20 33 35
	ipP	35 53
	iPP	37 25
	ePKKP	50 40
	eP'P'	58 50
	eSKPP'	21 01 08
SLC	eP	20 33 01
	iP	33 03
	ipP	35 20
	iPP	36 35
	iS	42 35
	esS	45 57
	isPS	46 55
	eSS	48 41
	esSS	52 03
	eL	57 37
	eP'P'	59 11
	eSKPP'	21 01 30

Date and Station		Phase (GCT)
		h m s
SJ	iPP	20 40 15
	i	41 37
	eSKS	45 07
	eS	47 19
	eSP	49 22
	iPKKP	49 31
	epS	50 05
	esS	51 15
	e(sPS)	53 09
	eSS	55 40
	esSS	59 21
	eL	21 09 08
SIT	eP	20 32 46
	ePP	36 18
	ePPP	38 28
	iS	42 22
	eSP	43 16
	e	44 59
	e(sS)	45 33
	eSS	47 38
	e	51 17
TUC	iP	20 32 44
	eS	42 14
	e(PKKP)	51 07
	eL	54 46
	eP'P'	59 14
	iSKPP'	21 01 47
UK	iP	20 32 19
	epP	34 33
	ePP	35 28
WASH	iPP	20 39 39
	eSP	48 21
	iSP	48 29
May 26		
RC	eP	21 33 26
TUC	eP	21 34 16
May 27		
HH	e(P)	00 17 06
May 27		
COL	iP	01 47 24
May 27		
HH	eP	04 24 02
May 27		
EUR	iP	08 01 06
	i	01 31
May 27		
BOZ	eP'	13 28 46
COL	ePP	13 27 06
EUR	iP'	13 28 50
	ePP	30 50
SJ	eP'	13 29 36
TUC	eP'	13 29 08
	e(PP)	32 38

Date and Station		Phase (GCT)
		h m s
May 27		
COL	iP	14 17 39
May 27		
COL	iP	16 59 43
EUR	iP	16 55 27
	i	55 58
HH	e(P)	16 56 29
RC	eP	16 55 38
	e	55 56
SJ	eP	16 56 53
TUC	eP	16 54 01
	e	54 11
	e(S)	57 15
	eL	58 52
May 27		
BOZ	eP'	17 15 15
COL	iP	17 09 45
	e	10 21
	iPP	13 28
EUR	e(P)	17 11 19
	iP'	15 11
	iPP	16 03
HH	iP'	17 15 09
	ePP	15 58
RC	eP'	17 15 25
	e(pP')	16 26
	e	18 44
SLC	eP'	17 15 18
SJ	i(P')	17 17 18
TUC	eP'	17 15 22
May 27		
EUR	eP	17 24 56
May 27		
BOZ	eP	18 07 58
COL	iP	18 06 21
EUR	iP	18 07 39
HH	iP	18 07 46
RC	iP	18 08 29
SLC	eP	18 07 57
TUC	eP	18 08 06
May 27		
BOZ	eP	21 44 11
May 27		
BOZ	eP	22 17 09

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

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Date and Station		Phase (GCT)	Date and Station		Phase (GCT)	Date and Station		Phase (GCT)	Date and Station		Phase (GCT)
		h m s			h m s			h m s			h m s
EUR	iPP	15 57 20	RC	eP	15 01 22						
HH	iP	15 54 27	SLC	eP	15 01 03						
	esP	55 55									
	iPP	58 08	May 31								
	epPP	59 15	BOZ	e(P)	21 13 37						
	eSKS	16 04 24		eP	13 47						
	ePKKP	11 49									
	eP'P'	19 57	COL	iP	21 13 37						
				epP	13 55						
RC	iP	15 54 49		ePP	16 54						
	e(pP)	56 17									
	ePP	58 43	EUR	iP	21 13 16						
	e(PKKP)	16 12 13									
			HH	eP	21 13 44						
SLC	iP	15 54 15		ePP	17 32						
	ipP	55 46									
	eSKS	16 04 13	SLC	iP	21 13 33						
				e	15 43						
TUC	iP	15 53 58									
	ipP	55 20	TUC	iP	21 13 17						
				epP	13 34						
May 30											
COL	iP	17 45 25									
HH	e(P)	17 42 56									
May 30											
COL	iP	18 49 49									
May 30											
SJ	e(P)	18 57 02									
May 30											
EUR	iP	19 20 07									
	i	20 29									
May 30											
HH	i(P)	20 57 13									
May 30											
RUT	i(P)	21 52 50									
	e	53 35									
COL	eP	21 50 44									
HH	e(P)	21 52 40									
May 31											
HH	e(P)	00 49 09									
May 31											
EUR	eP	09 07 55									
RC	e(P)	09 07 38									
May 31											
TUC	e(P)	14 18 14									
	eL	24 19									
May 31											
BOZ	e(P)	15 00 47									
COL	iP	14 57 31									
EUR	iP	15 00 54									
HH	iP	15 00 24									

Local and Minor Earthquakes		Local and Minor Earthquakes		Local and Minor Earthquakes	
day	hour	day	hour	day	hour
BUT		EUR		TUC	
May		May		May	
16	23.0	30	00.0	15	09.1
29	15.1		00.3	16	10.4
			23.7	17	04.1
COL				18	05.0
May		SLC		19	11.8
6	01.7	May		20	15.7
8	04.8	17	22.6		19.8
	08.3	24	22.8		22.8
12	03.3	25	22.9	21	11.0
13	08.0	28	19.5		22.0
14	06.4	29	22.8	22	03.2
18	04.3				07.9
	21.7	SJ			08.6
19	08.4	May			08.8
20	00.3	4	00.8		09.7
	04.4		20.2		09.8
	08.0	7	08.4	23	00.3
21	09.3	11	15.4		08.8
	11.5	13	09.0		10.6
	13.0	14	01.6		11.5
22	23.9	19	17.6		23.3
23	02.1	20	03.5	24	01.0
	06.1	21	05.4		09.3
25	17.0		09.3		09.9
26	02.2	22	16.0	25	06.5
	07.7	25	01.2	26	06.6
27	00.3	26	14.9		08.7
	10.5	27	05.4		11.1
	21.7			27	00.7
28	10.7	TUC			02.0
30	01.0	May			22.1
	07.7	3	01.8	28	07.2
			10.1		08.8
EUR		4	03.0	29	11.1
May			03.1	30	05.6
2	06.0		03.3		06.0
	07.9		11.6		06.2
4	22.6	5	05.4		07.8
5	19.2		23.3		07.9
	23.6	6	00.7		13.8
12	20.9		05.4	31	03.2
	21.0	7	08.7		14.3
13	04.2	9	03.7		
	05.7		05.4	UK	
	08.6		13.3	May	
	16.2		16.5	2	11.4
14	09.8		18.4	8	06.1
	18.6	10	01.1	10	05.1
16	01.2		05.8		10.9
17	17.8		12.1	15	17.6
	20.7		12.6		18.6
	21.3	11	06.0		
20	05.3		12.9		
22	23.8		14.3		
23	19.7		16.4		
25	15.2	12	08.1		
26	01.9		09.2		
	11.0		11.5		
	11.1		13.4		
27	02.2	13	03.5		
	04.0		04.2		
28	04.8		14.5		
	06.8		16.2		
	07.0		22.9		
	23.7	15	02.0		
29	05.7		07.6		