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SEISMOLOGICAL BULLETIN

August, 1957

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CONTENTS

List of stations 1
Provisional epicenters 2
Seismogram interpretations 6
Local and minor earthquakes 21

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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1957

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
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 (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.

Kipapa is located in Kipapa Gulch, Oahu, T. H., and was established in April, 1957 to serve as an outpost station for Honolulu.

Date 1957	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Aug.	h m s	°	°	
1	01 12 53*	17 N.	99 W.	Mexico aftershock.
1	16 18 48*	52 N.	170 W.	Fox Islands, Aleutian Islands.
1	16 57 30*	30 S.	177½ W.	Kermadec Islands.
1	22 13 40*	16 N.	97 W.	Near coast of Mexico.
2	02 12 30*	38 S.	178 E.	New Zealand. Minor damage in Gisborne District.
2	09 40 00*	5 N.	126½ E.	Near south coast of Mindanao, Philippine Islands. h about 150 km.
2	12 21 37*	52 N.	175 W.	Andreanof Islands, Aleutian Islands.
3	06 43 40*	7 S.	103 E.	Off south coast of Sumatra.
3	08 15 45*	28 S.	176½ W.	Kermadec Islands region.
3	10 21 10*	50 N.	157 E.	Northern Kurile Islands.
3	11 41 41*	21 N.	145 E.	Mariana Islands foreshock.
3	11 44 55*	21 N.	145 E.	Mariana Islands region.
4	00 39 12*	3½ S.	145 E.	Near north coast of New Guinea. Felt at Angoram, Bogia, and on Karkar and Manam Islands.
4	06 06 36*	17 N.	100 W.	Mexico aftershock. Felt. Mag. 6¼.
4	11 28 24*	17 N.	99½ W.	Mexico aftershock. Felt.
4	14 16 18*	17 N.	99½ W.	Mexico aftershock. Felt. Mag. 6¼.
4	21 08 51*	45 S.	35 E.	Prince Edward Islands region.
5	08 12 46*	5 S.	154 E.	New Britain region. Felt at Aropa and Namatanai.
5	10 04 38*	52½ N.	158½ E.	Kamchatka.
5	13 51 14**			Near east coast of Kamchatka.
5	14 12 04*	52 N.	159 E.	Kamchatka.
5	17 34 54*	16 N.	96 W.	Near coast of Oaxaca, Mexico. h about 100 km.
5	21 30 39**			Kermadec Islands region.
5	23 04 00**			Northern Ryukyu Islands.
6	00 03 54*	52½ N.	160½ E.	Kamchatka.
6	23 47 30**			Andreanof Islands, Aleutian Islands.
7	05 49 43**			Near coast of Kamchatka.
7	15 44 47**			Northern Peru. Minor damage at Talara.
7	19 40 46*	19½ S.	178 W.	Fiji Islands. h about 550 km.
8	01 12 15*	32½ N.	25½ E.	Near coast of Egypt.
8	04 44 20*	19 N.	109 W.	Revilla Gigedo Islands.
8	19 42 39*	30 N.	103 E.	Sinkiang Province, China.
8	22 33 02*	7½ S.	13 W.	Ascension Island region.
9	02 29 20*	2 S.	137 E.	New Guinea.
9	07 42 50**			Andreanof Islands, Aleutian Islands.
9	10 59 46*	46 N.	151 E.	Kurile Islands. h about 100 km.
10	00 01 30*	46½ N.	151 E.	Kurile Islands.

Date 1957	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Aug.	h m s	°	°	
10	02 18 38*	21½ S.	179½ W.	Fiji Islands region. h about 600 km.
10	03 55 46*	17 S.	172 W.	Tonga Islands.
10	09 43 40**			Samoa Islands.
10	19 12 47*	3½ N.	124½ E.	Celebes Sea. h about 300 km.
11	05 12 40*	38½ S.	177 E.	North Island, New Zealand.
11	13 40 18*	31½ S.	177½ W.	Kermadec Islands.
11	21 38 05*	17½ S.	169 E.	New Hebrides Islands. Mag. 6¾.
12	07 08 38*	6 N.	124½ E.	Mindanao, Philippine Islands.
12	07 58 05*	52½ N.	160½ E.	Near east coast of Kamchatka.
12	10 24 40*	16½ S.	176 W.	Samoa Islands region.
12	11 19 20*	33 N.	140 E.	Off south coast of Honshu, Japan. h about 200 km.
13	12 00 03*	61 N.	148 W.	Southern Alaska.
13	14 36 15*	43 N.	125 W.	Near coast of Oregon.
13	14 42 30*	9½ N.	126 E.	Northern Mindanao, Philippine Islands.
13	15 50 58*	23½ N.	121½ E.	Near east coast of Formosa.
14	02 44 24*	35½ N.	28 E.	Dodecanese Islands.
14	09 19 54**			Rat Islands, Aleutian Islands.
14	18 26 52*	21 S.	176½ W.	Tonga Islands region. h about 200 km.
15	08 32 56*	10 N.	80 W.	Near north coast of Panama. Felt in Panama and the Canal Zone.
15	20 45 20*	4½ S.	155 E.	Solomon Islands region. h about 500 km.
16	03 26 05*	5 S.	154 E.	New Britain region. Felt at Karoola, Londolovit, Namatanai, and Rabaul.
16	11 57 16*	5 S.	155 E.	Solomon Islands. Felt at Karoola, Londolovit, Namatanai, and Rabaul, New Britain.
16	14 48 19**			New Britain aftershock. Felt at Karoola, Namatanai, and Rabaul.
16	20 54 20*	24½ N.	143 E.	Volcano Islands.
16	23 31 55*	10½ N.	104 W.	Pacific Ocean. Mag. 6½ - 6¾.
17	02 21 47*	4 S.	151 E.	New Britain. Felt at Karoola and Rabaul.
17	12 07 04*	5 S.	155 E.	Solomon Island. Felt at Karoola and Rabaul, New Britain.
17	12 39 23*	29 N.	141 E.	Bonin Islands region.
18	06 34 16*	57 S.	142½ W.	South Pacific Ocean.
18	08 36 57*	12 N.	124 E.	Philippine Islands. Felt at Catarman, Masbate, and Roxas City.
18	10 41 54*	21 N.	156 W.	Hawaiian Islands.
18	21 10 42*	16½ N.	99 W.	Mexico aftershock.
18	21 42 30*	50 N.	157 E.	Northern Kurile Islands. Mag. 6½
19	00 11 13*	4½ S.	153 E.	New Britain aftershock. Felt at Rabaul and Warangoi.
19	02 41 14**			Do.
19	06 10 28*	52½ N.	169 W.	Fox Islands, Aleutian Islands.
19	07 22 26*	38½ N.	50 E.	Caspian Sea.

Date 1957	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Aug.	h m s	°	°	
19	11 34 36*	10 S.	161 E.	Solomon Islands foreshock. Mag. 6½.
19	21 31 55*	51½ N.	171 W.	Fox Islands, Aleutian Islands.
20	06 27 07*	10 S.	161 E.	Solomon Islands foreshock. Mag. 6 - 6¼.
20	12 01 54*	10 S.	161 E.	Solomon Islands. Mag. 6½.
20	15 21 06*	37 N.	71½ E.	Hindu Kush. Felt at Peshawar, Pakistan. h about 200 km.
20	22 17 05*	52 N.	173 W.	Andreanof Islands, Aleutian Islands.
20	22 32 06*	50½ N.	96½ E.	Outer Mongolia.
21	11 51 12*	52½ N.	168 W.	Fox Islands, Aleutian Islands.
21	15 33 57*	44½ N.	147 E.	Kurile Islands.
21	17 38 38*	15 S.	173½ W.	Samoa Islands region.
21	19 31 08*	51½ N.	171 W.	Fox Islands, Aleutian Islands.
22	03 37 57*	41½ N.	142½ E.	Near south coast of Hokkaido, Japan.
22	07 55 06*	1 N.	126 E.	Molucca Passage.
22	15 27 10*	3 N.	126½ E.	Do.
22	16 43 35*	15 S.	168 E.	New Hebrides Islands.
23	02 00 09*	6 S.	154½ E.	Solomon Islands. Felt at Aropa, Kokopo, Londolovit, Namatanai, Rabaul, and Sohano, New Britain. h about 60 km. Mag. 6½.
23	11 42 34*	24 N.	122 E.	Off east coast of Formosa. Moderate damage at Taipei.
23	13 33 51*	6 S.	154 E.	Solomon Islands. h about 100 km.
23	15 12 24**			Revilla Gigedo Islands.
23	17 24 20**			Near east coast of Kamchatka.
23	22 51 10*	7 S.	112 E.	Java. h about 100 km.
25	21 11 45*	10 S.	111 E.	Off south coast of Java.
26	06 53 43*	51 N.	177 W.	Andreanof Islands, Aleutian Islands.
26	11 28 50*	19 S.	63 W.	Southern Bolivia. Felt at Potosi, Santa Cruz, Sucre, and Valle Grande. Mag. 6¼ - 6½.
26	13 58 48*	2 S.	81 W.	Near coast of Ecuador. Felt in western Ecuador. Mag. 6.
26	18 22 18*	19 S.	63 W.	Southern Bolivia aftershock.
26	19 53 33*	5½ S.	154 E.	Solomon Islands region. Felt at Londolovit and Rabaul, New Britain. h about 100 km.
27	20 56 29*	25½ S.	178 E.	South of Fiji Islands. h about 650 km.
28	08 19 10*	28½ S.	175 W.	Kermadec Islands region.
28	23 22 21*	21 N.	145 E.	Mariana Islands.
28	23 22 22*	21½ S.	69 W.	Northern Chile. Depth slightly greater than normal.
28	23 50 15*	21 N.	145 E.	Mariana Islands.
29	00 57 45*	21 N.	145 E.	Mariana Islands aftershock.
29	12 47 06**			San Juan Province, Argentina. h about 150 km.
29	16 40 22**			Mariana Islands aftershock
30	03 50 36**			Kermadec Islands region.

Date 1957	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Aug.	h m s	°	°	
30	16 17 56*	39 N.	73 E.	Tadzhik S.S.R.
30	16 53 47*	37½ N.	141 E.	Near east coast of Honshu, Japan. h about 60 km.
30	20 04 01*	20½ N.	121½ E.	Batan Islands region.
30	20 45 18**			Mariana Islands aftershock.
31	12 01 06*	49 N.	100 E.	Outer Mongolia.

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

B 4297-4

Date and Station		Phase	(GCT) h m s
Aug. 4			
COL		iP	00 34 35
EUR		eP	00 35 00
Aug. 4			
COL		iP	00 51 42
		eS	01 02 03
		eSS	07 41
		eSSS	11 08
		eL	13 19
EUR		eP	00 53 01
SJ		eP'	00 58 52
		iP'	58 56
TUC		ePP	00 57 38
		eL	01 26 40
Aug. 4			
COL		iP	02 32 09
		i	32 34
Aug. 4			
BC		iP	06 11 49
		i	12 01
		eL	18 55
BOZ		iP	06 12 52
BUT		eP	06 12 59
		eS	18 10
		eL	21 01
CHI		iP	06 12 18
		eS	17 02
		eL	22 30
COL		iP	06 16 27
		iPcP	17 25
		eS	24 32
		eScS	26 19
		eSS	28 19
		eL	30 06
COLU		iP	06 11 52
		ePP	12 26
		i	12 41
		i	13 17
		i(PcP)	14 24
		iS	16 15
		i	17 04
		eL	17 23
EUR		iP	06 12 19
HH		iP	06 13 20
		e(S)	18 48
		eL	24 39
RC		iP	06 12 25
		e(S)	17 19
		eL	21 28
SLC		iP	06 12 13
		iPP	12 58
		eS	16 54
		eL	18 58
		iL	21 02
SJ		eP	06 13 08
TUC		iP	06 10 56
		e(S)	14 33
		iL	16 12
UK		ePP	06 13 53
		eL	25 16
WASH		iP	06 12 40
		ePcP	15 24
		eS	17 54
		eL	28 30
Aug. 4			
COL		iP	09 44 35
EUR		eP	09 46 14
Aug. 4			
COL		iP	11 26 02
Aug. 4			
BC		iP	11 33 37
		ePP	34 06
		eL	38 39
BOZ		eP	11 34 47
BUT		eP	11 34 47
		e	35 14
		eS	40 07
		eL	43 31
CHI		eS	11 39 02
		eL	44 02
COL		iP	11 38 17
		iPcP	39 10
COLU		iP	11 33 41
		eS	38 06
		iS	38 11
		eL	39 44
EUR		eP	11 34 09
HH		eP	11 35 09
RC		eP	11 34 15
		eL	43 13
SLC		eP	11 34 03
		eL	42 10
TUC		eP	11 32 45
		eL	36 25
Aug. 4			
BC		eP	14 18 38
BUT		eP	14 19 47
COL		iP	14 23 18
		iPcP	24 09
EUR		eP	14 19 09
HH		eP	14 20 10
RC		eP	14 19 15
SLC		eP	14 19 02
TUC		eP	14 17 45
Aug. 4			
BC		iP	14 21 30
		i	21 36
		eL	26 10
BOZ		eP	14 22 32
		e	22 52
BUT		iP	14 22 39
		i	23 00
		iPcP	25 38
		eS	27 54
		eL	31 06
CHI		iP	14 21 58
		eS	26 38
		eL	32 14
COL		iP	14 26 09
		iPcP	27 02
		eS	34 07
		eScS	35 59
		eL	39 42
COLU		iP	14 21 32
		i	22 44
		i	23 13
		iS	26 00
		iL	26 41
EUR		iP	14 22 00
HH		iP	14 23 01
		e(PcP)	25 44
		eL	34 35
RC		iP	14 22 06
		eL	28 16
SLC		iP	14 21 55
		eS	26 38
		eL	28 10
SJ		eP	14 22 47
TUC		iP	14 20 37
		i(S)	23 22
		eL	26 08
WASH		eP	14 22 22
		eL	30 04
Aug. 4			
COL		eP	14 36 09
Aug. 4			
EUR		eP	15 34 26
Aug. 4			
EUR		eP	17 21 14
Aug. 4			
BC		eP'	21 29 03
BOZ		eP'	21 28 53
BUT		eP'	21 29 03
		i	29 37
		ePP	33 12
COL		eP'	21 29 03
		i	29 39
		ePP	33 22
		eSKKS	37 02
		ePPS	46 35
		eSS	53 18
		eSSS	22 00 05
		eL	21 34
EUR		eP'	21 28 57
HH		eP'	21 28 59
		ePP	33 31
RC		eP'	21 28 44
TUC		eP'	21 28 48
Aug. 4			
COL		iP	23 11 09
EUR		eP	23 14 33
Aug. 5			
EUR		eP	00 07 22
Aug. 5			
BOZ		eP	04 42 55
BUT		eP	04 42 49
COL		iP	04 42 54
EUR		eP	04 42 23
RC		e(P)	04 43 27
TUC		eP	04 42 19
		eL	05 14 47
Aug. 5			
COL		iP	05 55 54
		i	56 15
Aug. 5			
BH		iP	06 11 21
		iS	15 33
Aug. 5			
BUT		eP	08 01 31
COL		iP	08 01 30
EUR		iP	08 01 01
TUC		eP	08 01 02
Aug. 5			
COL		iP	08 25 05
		i	25 30
		i	25 49

B-4297-4.

Date and Station		Phase (GCT) h m s
EUR	eP	08 26 03
	i	26 29
Aug. 5 COL	eP	10 10 42
EUR	eP	10 14 34
Aug. 5 EUR	eP	12 08 12
Aug. 5 BUT	eP	13 10 57
COL	iP	13 10 56
	i	11 13
EUR	eP	13 10 29
HH	eP	13 10 57
TUC	e(P)	13 10 31
Aug. 5 COL	eP	13 57 20
Aug. 5 COL	iP	14 12 17
EUR	eP	14 11 48
Aug. 5 BH	iP	14 21 02
	i	25 08
COL	eP	14 18 08
EUR	eP	14 21 54
Aug. 5 BH	iP	17 38 54
BC	iP	17 40 25
BOZ	eP	17 41 22
COL	iP	17 44 55
EUR	iP	17 40 54
HH	eP	17 41 49
	e	41 58
RC	eP	17 40 54
SLC	eP	17 40 46
TUC	iP	17 39 37
	eL	46 10
	iL	48 23
Aug. 5 EUR	eP	21 43 36
TUC	eP	21 43 31
Aug. 5 COL	iP	23 14 07

Date and Station		Phase (GCT) h m s
EUR	eP	23 16 51
HH	iP	23 16 29
Aug. 5 EUR	eP	23 43 06
Aug. 6 COL	eP	00 09 54
EUR	eP	00 13 37
Aug. 6 COL	i(P)	02 57 52
Aug. 6 TUC	e(P)	03 17 09
Aug. 6 EUR	eP	03 37 00
Aug. 6 COL	iP	03 58 15
Aug. 6 BUT	eP	06 44 06
Aug. 6 BOZ	eP	07 39 53
Aug. 6 EUR	iP	08 46 11
TUC	eP	08 47 15
Aug. 6 HH	eP	09 52 49
Aug. 6 HH	eP	13 01 36
Aug. 6 HH	eP	15 58 29
Aug. 6 COL	iP	20 27 48
Aug. 6 COL	eP	22 37 01
Aug. 6 BOZ	eP	23 55 30
COL	iP	23 52 05
	eS	55 55
	eL	56 54
EUR	iP	23 55 33
HH	iP	23 55 03
	ePcP	57 11
RC	iP	23 56 11
SJ	eP	00 00 23
TUC	iP	23 56 34

Date and Station		Phase (GCT) h m s
Aug. 7 COL	iP	03 15 01
EUR	iP	03 14 40
TUC	eP	03 14 40
Aug. 7 COL	eP	04 23 25
	i	24 01
EUR	eP	04 19 40
TUC	eP	04 18 28
Aug. 7 SJ	eP	04 49 44
TUC	eP	04 49 47
Aug. 7 EUR	eP	05 33 22
	i	33 31
	iS	33 53
	iL	34 02
TUC	eP	05 34 16
Aug. 7 COL	eP	05 55 40
EUR	eP	05 59 25
HH	e(P)	05 58 57
RC	eP	05 59 58
	e	06 02 38
Aug. 7 COL	iP	05 58 20
EUR	iP	06 02 07
Aug. 7 BUT	eP	08 59 25
COL	iP	09 02 05
EUR	eP	08 59 03
HH	eP	08 59 42
	e	09 00 22
RC	eP	08 58 57
SJ	iP	08 55 16
	i	55 26
	e(PcP)	56 47
TUC	e(P)	08 58 02
	e	58 11
Aug. 7 EUR	eP	10 46 59
Aug. 7 BC	iP	12 25 27
	i	25 38
	i	25 49

Date and Station		Phase (GCT) h m s
EUR	iP	12 25 41
	i	26 20
TUC	eP	12 27 07
Aug. 7 EUR	eP	12 37 00
	i	37 59
Aug. 7 BH	iP	15 23 46
	iS	24 30
Aug. 7 COL	iP	15 39 56
	i	40 21
Aug. 7 EUR	eP	15 54 41
SJ	eP	15 50 18
Aug. 7 EUR	eP	16 00 11
Aug. 7 COL	iP	19 06 11
EUR	eP	19 05 38
Aug. 7 BOZ	iP	19 52 48
COL	eP	19 52 36
	iP	52 38
	ipP	54 41
	iS	20 02 29
EUR	iP	19 52 17
HH	iP	19 52 45
	epP	54 50
RC	iP	19 53 08
	e(pP)	55 37
TUC	iP	19 52 18
Aug. 7 HH	eP	20 10 25
Aug. 7 BH	iP	20 23 50
	iS	24 12
Aug. 7 EUR	eP	22 21 34
HH	eP	22 20 26
TUC	eP	22 20 15
	eL	26 03
Aug. 8 COL	eP	01 24 41
	i	24 49
HH	iP	01 25 26

Date and Station		Phase (GCT) h m s
Aug. 8		
COL	iP	02 37 18
EUR	eP	02 38 15
Aug. 8		
COL	iP	02 52 51
Aug. 8		
EUR	eP	03 04 21
Aug. 8		
UK	iP	03 49 31
Aug. 8		
BC	iP	04 49 24
	e	49 43
BOZ	iP	04 50 00
BUT	eP	04 50 04
	e(S)	54 42
	eL	58 10
COL	iP	04 53 33
EUR	iP	04 49 07
HH	iP	04 50 25
RC	eP	04 49 49
SJ	eP	04 52 03
	e	52 14
TUC	iP	04 47 29
	e	51 50
Aug. 8		
BUT	eP	06 42 11
HH	eP	06 42 57
Aug. 8		
COL	iP	08 09 26
EUR	iP	08 13 04
	ipP	13 20
RC	eP	08 13 29
TUC	eP	08 13 57
Aug. 8		
EUR	eP	09 40 55
TUC	eP	09 39 11
Aug. 8		
COL	iP	15 05 36
HH	eP	15 05 38
Aug. 8		
COL	eP	15 34 59
EUR	eP	15 38 26
HH	eP	15 37 55
	e	40 22

Date and Station		Phase (GCT) h m s
Aug. 8		
EUR	eP	15 55 12
Aug. 8		
HH	eP	16 28 37
Aug. 8		
COL	iP	17 57 36
Aug. 8		
COL	iP	19 54 00
	i	54 12
HH	eP	19 56 08
Aug. 8		
BC	iP	22 46 41
BOZ	e(P)	22 48 17
EUR	iP	22 48 59
SJ	e(P)	22 43 05
	i	43 41
TUC	iP	22 45 46
Aug. 9		
COL	iP	00 13 35
Aug. 9		
BOZ	e(P)	01 14 52
COL	iP	01 11 28
HH	iP	01 14 27
	e	14 36
RC	eP	01 15 35
TUC	e(P)	01 15 58
Aug. 9		
COL	iP	01 43 10
Aug. 9		
EUR	eP	02 43 31
Aug. 9		
BH	i(P)	02 47 58
BUT	e	02 49 42
	e(PKKP)	59 11
	e	59 29
COL	iP	02 42 02
	eS	52 21
	ePPS	54 03
	ePKKP	03 00 04
	eL	03 44
COLU	iP'	02 48 39
	ePKS	52 06
	iPKS	52 24
	ePPP	53 28
	e(SKKS)	58 17
	ePS	03 01 19
	eL	29 06

Date and Station		Phase (GCT) h m s
HH	ePKKP	02 59 17
PHIL	ePKS	02 52 11
	eL	03 31 17
RC	ePP	02 58 48
SJ	iP	02 49 20
	ePP	53 04
TUC	ePP	02 48 32
	e	59 08
	ePKKP	59 10
	eL	03 19 15
WASH	eP'	02 48 34
	i	48 39
	eL	03 36 04
Aug. 9		
COL	iP	03 16 35
Aug. 9		
EUR	eP	06 43 14
Aug. 9		
EUR	iP	07 13 25
Aug. 9		
COL	iP	07 16 05
HH	e(P)	07 22 57
	e	23 06
Aug. 9		
COL	iP	07 46 12
HH	eP	07 49 09
Aug. 9		
COL	iP	07 47 21
HH	eP	07 50 25
RC	eP	07 51 24
TUC	e(P)	07 51 58
Aug. 9		
SLC	iP	10 05 52
	i	06 18
TUC	eP	10 07 33
	e	09 12
Aug. 9		
BC	eP	11 10 35
BOZ	eP	11 10 11
BUT	eP	11 10 03
	epP	10 42
EUR	iP	11 10 18
	ipP	10 48
HH	iP	11 09 49
	e	10 17

Date and Station		Phase (GCT) h m s
RC	iP	11 10 43
TUC	eP	11 11 07
Aug. 9		
COL	iP	18 40 48
EUR	eP	18 44 27
HH	eP	18 43 24
RC	eP	18 44 09
Aug. 9		
EUR	eP	19 56 31
Aug. 9		
EUR	eP	21 22 53
Aug. 9		
COL	iP	22 04 03
Aug. 10		
BUT	eP	00 00 07
Aug. 10		
BC	iP	00 12 30
COL	iP	00 08 48
	i	08 54
	i	09 16
EUR	eP	00 12 11
	i	12 21
	i	12 39
HH	eP	00 11 42
	i	11 52
RC	eP	00 12 38
TUC	eP	00 13 00
	e	13 10
Aug. 10		
BC	iP	02 30 13
EUR	iP	02 30 17
	ipP	32 39
HH	eP	02 30 45
	e	34 31
TUC	iP	02 30 17
	e	30 34
	epP	32 25
Aug. 10		
SJ	iP	03 30 11
Aug. 10		
HH	eP	03 38 33
Aug. 10		
BC	eP	04 07 40
BOZ	eP	04 08 21

8-4297-4.

Date and Station		Phase (GCT)
		h m s
BUT	eP	04 08 17
COL	eP	04 08 18
	iP	08 22
	i	08 31
	eS	18 46
	ePPS	20 12
	e	21 25
	eL	31 45
EUR	eP	04 07 46
HH	eP	04 08 19
TUC	eP	04 07 45
	e	08 04
	eL	33 32
Aug. 10		
EUR	iP	04 32 20
TUC	eP	04 31 09
Aug. 10		
COL	iP	07 00 27
EUR	eP	06 59 53
TUC	e(P)	06 59 51
Aug. 10		
COL	iP	07 13 20
EUR	eP	07 11 45
RC	eP	07 10 44
TUC	eP	07 11 17
Aug. 10		
BC	eP	09 55 18
COL	iP	09 55 54
EUR	iP	09 55 24
HH	eP	09 55 56
TUC	eP	09 55 24
Aug. 10		
EUR	eP	10 51 28
Aug. 10		
EUR	eP	12 14 42
Aug. 10		
COL	eP	14 50 57
Aug. 10		
EUR	iP	15 24 13
	iS	25 14
	iL	25 36
TUC	eP	15 24 09
Aug. 10		
COL	eP	18 15 29
	i	15 32

Date and Station		Phase (GCT)
		h m s
EUR	iP	18 18 59
HH	eP	18 18 28
	iPcP	20 37
RC	eP	18 19 38
TUC	eP	18 20 01
Aug. 10		
COL	eP	19 24 59
	i	26 17
EUR	eP	19 30 50
HH	eP	19 33 43
Aug. 10		
EUR	eP	19 42 01
Aug. 10		
HH	eP	20 43 34
Aug. 10		
EUR	eP	21 19 36
Aug. 10		
EUR	eP	21 45 35
Aug. 10		
COL	eP	23 24 25
Aug. 11		
EUR	eP	01 40 00
Aug. 11		
COL	eP	03 24 23
EUR	eP	03 25 41
HH	eP	03 24 44
	e	28 38
RC	eP	03 26 24
SIT	eP	03 22 06
	iS	22 46
Aug. 11		
COL	iP	05 17 49
Aug. 11		
BOZ	ePP	05 31 16
EUR	eP	05 26 27
	e	29 23
HH	ePP	05 31 07
RC	ePP	05 31 50
TUC	eP	05 26 21
	e(PP)	30 20
Aug. 11		
COL	iP	05 44 20

Date and Station		Phase (GCT)
		h m s
Aug. 11		
EUR	eP	05 53 12
Aug. 11		
EUR	eP	08 12 13
HH	eP	08 11 52
Aug. 11		
EUR	eP	09 20 43
Aug. 11		
COL	iP	11 11 47
Aug. 11		
COL	iP	11 13 11
Aug. 11		
HH	eP	12 24 53
Aug. 11		
BC	eP	13 53 19
COL	iP	13 54 00
EUR	eP	13 53 23
TUC	eP	13 53 21
Aug. 11		
COL	eP	14 58 24
	i	58 24
Aug. 11		
EUR	eP	15 13 15
Aug. 11		
HH	eP	16 16 40
	i	16 45
Aug. 11		
TUC	eP	16 58 52
Aug. 11		
COL	iP	17 03 49
	ipP	04 25
EUR	eP	17 00 02
HH	eP	17 00 48
Aug. 11		
BC	eP	21 51 07
	eS	22 02 10
BOZ	eP	21 51 37
BUT	eP	21 51 30
	ePP	55 33
	i	56 43
	e(SKS)	22 01 37
	eS	02 41
	ePPS	04 49
	eSS	08 30
	eL	17 37
COL	eP	21 50 58
	i	51 10
	eSKS	22 01 37

Date and Station		Phase (GCT)
		h m s
COL	iS	22 01 49
	iL	18 25
EUR	iP	21 51 07
HONO	eP	21 47 03
HH	eP	21 51 32
PHIL	e(P)	21 58 40
	eS	22 05 38
	e(ScS)	08 31
	eSS	09 39
	eL	15 27
RC	eP	21 52 04
SLC	eP	21 51 27
TUC	iP	21 51 18
	ePP	54 46
	eL	22 19 49
UK	eP	21 50 43
Aug. 11		
COL	iP	22 14 57
EUR	eP	22 14 36
HH	eP	22 16 44
RC	e(P)	22 16 35
TUC	eP	22 14 38
Aug. 11		
EUR	eP	22 59 19
Aug. 11		
EUR	eP	23 42 43
Aug. 12		
EUR	eP	00 19 49
TUC	eP	00 18 12
Aug. 12		
EUR	eP	01 32 29
Aug. 12		
EUR	eP	01 35 28
Aug. 12		
EUR	iP	03 08 23
	i	08 35
Aug. 12		
COL	iP	05 15 48
EUR	iP	05 19 08
Aug. 12		
COL	iP	07 21 06
EUR	ePP	07 27 21
	i	27 54

Date and Station		Phase	(GCT) h m s
HH		ePP	07 26 36
SJ		e(P')	07 29 10
Aug. 12			
BC		eP	08 08 08
COL		iP	08 04 03
EUR		iP	08 07 49
		i	08 17
HH		eP	08 07 12
RC		eP	08 08 13
		e	08 27
TUC		eP	08 08 43
Aug. 12			
COL		iP	08 25 33
		i	25 49
EUR		eP	08 28 52
		i	29 04
HH		eP	08 28 24
		e	28 36
Aug. 12			
HH		eP	10 10 45
Aug. 12			
COL		eP	10 17 06
EUR		eP	10 20 39
Aug. 12			
HH		eP	10 32 42
Aug. 12			
COL		iP	10 37 07
EUR		eP	10 36 43
Aug. 12			
BC		iP	11 31 31
BOZ		eP	11 31 15
BUT		iP	11 31 08
COL		iP	11 28 29
EUR		iP	11 31 17
		i	31 37
HH		iP	11 30 56
RC		iP	11 31 41
SLC		eP	11 31 28
TUC		eP	11 31 55
		ePP	35 20
Aug. 12			
COL		eP	15 50 28
Aug. 12			
HH		eP	20 17 52

Date and Station		Phase	(GCT) h m s
Aug. 12			
COL		iP	21 53 43
Aug. 13			
COL		eP	00 44 36
EUR		iP	00 47 59
Aug. 13			
EUR		eP	00 57 04
Aug. 13			
BC		eP	01 22 36
EUR		eP	01 22 42
HH		eP	01 22 40
RC		e(P)	01 21 49
TUC		eP	01 22 17
		e	22 23
Aug. 13			
EUR		eP	03 34 39
TUC		eP	03 33 23
		e	38 23
Aug. 13			
EUR		eP	06 29 57
Aug. 13			
COL		iP	07 00 19
		i	00 55
Aug. 13			
COL		iP	07 14 43
Aug. 13			
COL		iP	08 12 38
Aug. 13			
BC		iP	12 06 35
BOZ		eP	12 05 04
		e	05 56
BUT		iP	12 05 30
		i	05 50
		e	06 47
		eS	09 55
		iS	10 10
		eL	12 25
COL		iP	12 01 07
		iS	01 51
		iL	02 05
EUR		iP	12 06 04
		iPcP	09 11
HH		iP	12 05 07
		eL	09 33
		iL	12 28
KIP		eP	12 07 39
RC		eP	12 06 22
		eL	17 00

Date and Station		Phase	(GCT) h m s
SLC		eP	12 06 12
SIT		eP	12 01 49
		i	02 00
		i	02 30
		eS	03 05
		iL	03 11
TUC		eP	12 07 17
Aug. 13			
COL		eP	12 41 28
HH		eP	12 40 22
Aug. 13			
BC		eP	14 38 42
BOZ		eP	14 38 45
BUT		eP	14 38 36
		e(S)	40 48
		eL	41 09
EUR		iP	14 38 05
RC		eP	14 40 00
SLC		eP	14 38 41
TUC		eP	14 39 53
Aug. 13			
COL		iP	14 54 39
Aug. 13			
COL		iP	16 02 08
EUR		ePP	16 08 28
HH		eP	16 04 14
Aug. 13			
HH		eP	18 06 38
Aug. 13			
EUR		eP	22 57 07
Aug. 13			
EUR		eP	23 15 38
		eS	16 33
		eL	16 46
UK		eP	23 15 07
Aug. 14			
COL		eP	02 56 37
HH		eP	02 57 27
Aug. 14			
COL		iP	09 24 45
Aug. 14			
BOZ		eP	09 28 08
COL		iP	09 28 49
EUR		iP	09 28 13

Date and Station		Phase	(GCT) h m s
HH		iP	09 27 42
		e	29 44
RC		eP	09 28 51
SLC		eP	09 28 29
TUC		eP	09 29 13
Aug. 14			
COL		eP	09 37 13
Aug. 14			
COL		eP	09 43 15
Aug. 14			
COL		eP	09 39 21
		i	39 23
EUR		iP	09 42 49
HH		eP	09 42 18
RC		eP	09 43 27
TUC		eP	09 43 49
Aug. 14			
COL		iP	11 46 18
Aug. 14			
COL		eP	13 25 12
EUR		iP	13 28 43
HH		eP	13 28 17
Aug. 14			
COL		iP	13 50 57
Aug. 14			
COL		iP	14 39 44
Aug. 14			
COL		eP	16 15 58
EUR		iP	16 19 29
HH		eP	16 18 57
Aug. 14			
EUR		eP	17 28 51
Aug. 14			
BUT		eP	18 00 42
Aug. 14			
BC		eP	18 38 51
BUT		eP	18 39 34
		epP	40 16
EUR		iP	18 38 56
		ipP	39 49
HH		eP	18 39 27
		epP	40 18

Date and Station		Phase (GCT)
		h m s
SLC	epP	18 40 06
TUC	eP	18 38 56
	epP	39 49
Aug. 14		
BC	eP	19 28 22
EUR	eP	19 28 51
	eS	30 26
	eL	30 50
TUC	e(P)	19 28 12
	e	28 19
Aug. 14		
EUR	iP	19 32 02
Aug. 14		
COL	iP	19 39 24
	ipP	40 16
SJ	e	19 46 38
Aug. 14		
COL	iP	20 05 54
EUR	eP	20 05 27
	ipP	06 22
Aug. 14		
COL	iP	20 59 43
EUR	iP	20 59 10
Aug. 14		
EUR	eP	22 08 28
Aug. 14		
COL	iP	23 20 47
	ipP	21 12
Aug. 15		
EUR	eP	01 02 55
Aug. 15		
HH	eP	01 10 57
Aug. 15		
EUR	eP	02 29 59
Aug. 15		
COL	eP	04 49 50
EUR	eP	04 53 19
HH	eP	04 52 48
Aug. 15		
EUR	iP	05 21 03
	e	21 34
RC	eP	05 21 27
Aug. 15		
HH	eP	06 38 17

Date and Station		Phase (GCT)
		h m s
Aug. 15		
BH	iP	08 33 19
	eS	33 32
BC	iP	08 40 41
BOZ	iP	08 42 10
BUT	eP	08 41 17
	ePP	43 19
COLU	eP	08 38 14
	iP	38 29
EUR	iP	08 41 02
	i	41 25
	ipP	42 49
HH	iP	08 41 35
KIP	eP	08 44 42
RC	iP	08 40 29
	ePP	42 10
SLC	iP	08 40 48
	iPcP	42 43
SJ	eP	08 36 41
	ipP	36 59
TUC	iP	08 40 01
	ePcP	42 25
Aug. 15		
BH	iP	08 58.05
	iS	58 15
Aug. 15		
EUR	eP	09 04 42
	eS	05 43
	eL	05 53
Aug. 15		
EUR	iP	09 21 30
Aug. 15		
EUR	eP	10 32 04
Aug. 15		
EUR	eP	12 08 51
HH	eP	12 09 23
RC	eP	12 08 44
Aug. 15		
EUR	eP	13 06 47
Aug. 15		
COL	eP	13 28 27
EUR	eP	13 31 55
Aug. 15		
EUR	eP	20 54 25
Aug. 15		
BC	eP	20 57 44

Date and Station		Phase (GCT)
		h m s
COL	iP	20 56 42
	ipP	58 30
	i	58 41
	eS	21 06 02
EUR	iP	20 57 40
	ipP	59 30
	eP'P'	21 23 01
HH	eP	20 57 49
	epP	59 38
	ePKKP	21 14 47
	eP'P'	23 01
RC	ePKKP	21 14 28
SJ	eP'	21 03 50
	iPP	06 38
SIT	eP	20 56 55
	epP	58 41
	eS	21 06 31
	iS	06 32
	iSP	07 27
	esS	09 38
Aug. 15		
EUR	eP	23 18 04
TUC	eP	23 19 07
	e	20 40
Aug. 15		
EUR	eP	23 52 25
Aug. 16		
BH	iP	00 36 17
	iS	36 30
Aug. 16		
COL	iP	01 33 12
EUR	iP	01 37 09
TUC	eP	01 38 17
Aug. 16		
EUR	eP	01 43 12
Aug. 16		
EUR	eP	01 54 32
Aug. 16		
BC	eP	03 39 51
COL	iP	03 38 24
	i	38 52
EUR	eP	03 39 24
	i	39 49
Aug. 16		
EUR	eP	05 42 43

Date and Station		Phase (GCT)
		h m s
Aug. 16		
EUR	eP	06 20 37
Aug. 16		
EUR	eP	06 28 07
Aug. 16		
EUR	eP	07 57 52
TUC	eP	07 57 54
Aug. 16		
COL	iP	08 34 06
EUR	eP	08 37 36
Aug. 16		
EUR	eP	11 14 32
TUC	e(P)	11 14 38
Aug. 16		
BC	eP	11 28 06
EUR	eP	11 28 51
RC	eP	11 29 29
TUC	eP	11 27 03
	eL	30 06
Aug. 16		
BC	eP	12 11 02
COL	iP	12 09 34
	ipP	10 06
EUR	eP	12 10 35
	i	10 59
	i	11 13
RC	eP	12 11 40
Aug. 16		
COL	iP	15 00 37
	e	00 57
	ipP	01 01
EUR	e(P)	15 01 37
	i	02 01
Aug. 16		
BOZ	eP	18 42 28
BUT	eP	18 42 32
EUR	eP	18 42 03
RC	eP	18 42 16
TUC	eP	18 41 21
	e	41 28
Aug. 16		
EUR	eP	19 01 49
Aug. 16		
BC	eP	21 06 59

B 4297-4.

Date and Station		Phase (GCT) h m s
EUR	iP	21 06 47
RC	iP	21 07 17
Aug. 16		
EUR	eP	21 18 11
Aug. 16		
COL	iP	23 41 01
	iS	41 43
	iL	41 49
Aug. 16		
BH	iP	23 37 10
	iS	41 32
BC	iP	23 37 43
	i	38 00
	eS	42 17
	eL	45 27
BOZ	iP	23 38 57
	e(S)	44 40
	eL	47 36
BUT	iP	23 39 03
	iPcP	40 35
	iS	44 49
	iL	47 15
CHI	iP	23 38 44
	iPcP	39 52
	iS	44 16
	iL	46 20
COL	iP	23 42 19
	i	42 24
	iPcP	43 17
COLU	iP	23 38 18
	i	39 04
	iPcP	41 24
	iS	43 15
	iL	54 51
EUR	iP	23 38 12
KIP	eP	23 41 14
	eS	48 54
	iS	48 56
	e(SS)	52 42
	eL	54 12
T_L=16 sec. $A_{max.}$=11 mm.		
PHIL	iP	23 39 24
	iPcP	40 47
	iS	45 23
	iL	48 13
	eScS	49 14
RC	eP	23 38 37
	i	38 45
	ePP	40 02
	iS	44 07
	iL	46 38
SLC	iP	23 38 18
	iS	43 31
SLC	eL	23 45 51
SJ	iP	23 39 07
	iS	45 02
	iL	47 55
SIT	iP	23 41 09
	iPP	43 00
	i(PPP)	44 32
	iS	48 43
	e	49 59
	eSS	52 38
	eL	54 57
	iL	55 00
TUC	iP	23 37 01
	e	38 29
	iS	41 19
	iL	42 04
UK	iP	23 38 38
	eS	44 10
	iS	44 13
	eL	47 50
WASH	iP	23 39 12
	ipP	40 12
	eS	45 08
Aug. 17		
EUR	eP	01 11 27
Aug. 17		
EUR	eP	02 09 12
TUC	eP	02 07 58
Aug. 17		
COL	eP	02 33 47
EUR	eP	02 34 46
	i	35 03
Aug. 17		
COL	iP	02 34 10
EUR	iP	02 35 09
Aug. 17		
EUR	eP	03 13 42
TUC	e(P)	03 12 07
Aug. 17		
BC	eP	04 31 42
EUR	eP	04 31 45
TUC	eP	04 31 51
Aug. 17		
BOZ	eP	04 50 32
BUT	iP	04 50 30
	i	50 35
EUR	eP	04 50 17
RC	eP	04 50 35
	e	50 42
SLC	eP	04 50 24
Aug. 17		
EUR	eP	08 40 43
Aug. 17		
COL	eP	08 53 23
	i	53 25
EUR	eP	08 56 55
Aug. 17		
COL	iP	12 19 23
	ipP	19 46
EUR	eP	12 20 17
Aug. 17		
BC	iP	12 51 53
BOZ	eP	12 51 40
BUT	iP	12 51 33
COL	iP	12 49 04
	i	49 16
EUR	iP	12 51 40
	i	52 00
KIP	iP	12 48 55
RC	iP	12 52 07
SLC	iP	12 51 51
TUC	iP	12 52 17
Aug. 17		
EUR	eP	16 48 48
Aug. 17		
EUR	eP	18 41 31
Aug. 17		
COL	iP	18 45 43
EUR	eP	18 45 18
Aug. 17		
COL	iP	19 10 42
Aug. 17		
COL	iP	19 36 16
	iS	36 57
	iL	37 08
Aug. 17		
COL	iP	20 04 06
	iS	05 05
Aug. 17		
COL	iP	21 04 25
Aug. 17		
EUR	eP	22 13 37
	e	15 52
Aug. 18		
COL	iP	01 09 47
	i	10 13
Aug. 18		
EUR	eP	03 06 57
Aug. 18		
EUR	eP	06 08 10
Aug. 18		
COL	iP'	06 53 02
TUC	eP	06 47 24
	eSKS	58 38
	eL	07 17 16
Aug. 18		
COL	iP	06 50 59
	i	51 24
Aug. 18		
EUR	eP	08 18 42
RC	eP	08 18 32
Aug. 18		
COL	iP	08 48 57
COLU	eP'	08 56 10
	eSKKS	09 05 09
	e	11 44
	eSS	15 17
	eL	35 52
EUR	eP	08 51 07
	e	54 30
KIP	eP	08 46 43
RC	ePP	08 55 58
SJ	eP'	08 56 45
	iP	56 50
SIT	iP	08 49 42
	ePP	53 11
	eS	09 00 08
	eSS	06 54
	eSSS	09 40
	eL	12 47
TUC	ePP	08 56 18
	ePPS	09 06 44
	eSS	12 52
	eL	24 50
WASH	eP	08 56 09
	ePP	57 50
	ePS	09 08 08
Aug. 18		
EUR	eP	09 07 13
Aug. 18		
COL	eP	09 14 49

B-4297-4

Date and Station		Phase (GCT)
		h m s
Aug. 18		
BC	eP	10 49 21
BOZ	eP	10 50 08
	e	50 26
BUT	eP	10 50 00
COL	eP	10 50 08
	iP	50 13
EUR	iP	10 49 22
HONO	iP	10 42 32
	eS	42 58
	eL	43 04
KIP	iP	10 42 32
RC	eP	10 50 42
SLC	eP	10 49 57
TUC	eP	10 49 45
	eL	11 01 52
Aug. 18		
BC	iP	12 00 29
	i	00 41
EUR	iP	12 00 40
SLC	eP	12 01 36
Aug. 18		
EUR	eP	12 09 40
Aug. 18		
EUR	eP	13 31 07
Aug. 18		
COL	iP	15 00 54
Aug. 18		
COL	iP	16 12 37
EUR	eP	16 13 33
Aug. 18		
EUR	eP	19 39 25
Aug. 18		
BH	iP	21 14 52
	iS	18 32
BC	iP	21 15 58
	i	17 38
	eL	23 34
BOZ	eP	21 17 00
	iPcP	18 54
BUT	iP	21 17 06
	eL	24 05
CHI	eP	21 16 23
	e	17 55
	eL	22 15

Date and Station		Phase (GCT)
		h m s
COL	eP	21 20 38
COLU	eP	21 16 03
	eS	20 20
	iS	20 28
	iL	20 55
EUR	iP	21 16 29
HH	iP	21 17 28
PHIL	e(P)	21 17 38
	ePP	18 11
	eS	22 13
	eL	25 11
RC	eP	21 16 34
SLC	iP	21 16 24
SJ	eP	21 17 04
	i	17 30
	i	20 35
TUC	eP	21 15 06
Aug. 18		
BOZ	iP	21 18 28
BUT	iP	21 18 34
COL	iP	21 21 57
	iPcP	22 36
EUR	iP	21 18 05
	i	18 45
HH	iP	21 18 55
KIP	eP	21 21 55
	i	22 06
RC	eP	21 17 53
SLC	iP	21 17 56
	i(S)	23 07
	eL	25 31
SIT	eP	21 20 55
	iP	20 56
	eS	28 30
	eL	35 54
TUC	i(P)	21 16 54
	e	18 20
	iS	20 37
	iL	21 40
WASH	e(P)	21 18 36
	e	23 06
Aug. 18		
BC	iP	21 52 57C
	i(PcP)	53 51
	eS	22 01 26
	eSS	05 20
BOZ	iP	21 52 28

Date and Station		Phase (GCT)
		h m s
BOZ	iPcP	21 53 23
	eS	22 00 12
	eL	07 12
BUT	iP	21 52 20
	eS	22 00 15
	eSS	03 55
	eL	07 05
COL	iP	21 49 00
COLU	iP	21 54 51
	e	55 48
	iS	22 05 00
	iScS	05 26
	i	07 45
	eSS	10 21
	eL	15 30
EUR	iP	21 52 37
	iP'P'	22 21 53
HH	iP	21 52 04
	e(PP)	54 33
	eS	59 43
	i	22 00 09
	eScS	01 52
	e(P'P')	21 43
KIP	eP	21 50 54
	ePP	52 35
	eS	57 33
	eL	22 01 18
PHIL	eP	21 54 37
	iS	22 04 32
	e(SS)	09 26
	eSSS	13 35
	eL	19 06
RC	iP	21 53 04
	eS	22 01 35
	iS	01 36
	eL	09 14
	eP'P'	21 57
SLC	iP	21 52 48
	iPcP	53 37
	iS	22 00 55
	i	01 33
	eSS	04 53
	eL	07 55
SJ	eP	21 56 27
	ePP	22 00 37
SIT	iP	21 50 06
	i	50 28
	iPP	51 44
	iS	56 09
	i	56 30
	i	59 10
	eL	22 00 19
TUC	eP	21 53 30
	eS	22 02 27
	eSS	06 49
	eL	10 22
	eP'P'	21 37

Date and Station		Phase (GCT)
		h m s
UK	eP	21 52 10
	i	52 24
	eS	59 56
	eL	22 10 14
WASH	iP	21 54 42
	iS	22 04 35
	eSS	10 04
Aug. 19		
COL	eP	00 23 34
	i	23 50
EUR	iP	00 24 35
	e(PP)	28 41
HH	eP	00 24 42
RC	e(P)	00 27 44
Aug. 19		
COL	eP	00 30 14
Aug. 19		
COL	iP	02 10 58
Aug. 19		
COL	iP	02 53 33
EUR	iP	02 54 30
Aug. 19		
COL	eP	05 35 20
EUR	iP	05 38 48
RC	eP	05 39 27
Aug. 19		
COL	iP	06 14 24
EUR	eP	06 17 51
HH	eP	06 17 20
	ePcP	19 51
RC	eP	06 18 32
TUC	eP	06 18 54
	e	19 05
Aug. 19		
COL	iP	07 34 15
	i	34 26
EUR	eP	07 36 30
HH	e(P)	07 35 37
	e	35 49
RC	eP	07 35 46
Aug. 19		
COL	eP	10 04 22
Aug. 19		
COL	eP	11 07 52

B-4297-4

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

B 4297-4

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

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

Date and Station		Phase (GCT)
		h m s
COLU	iP	11 38 27
	ePP	40 41
	eS	46 04
	iS	46 11
	iScS	48 08
	eL	50 58
PHIL	eP	11 38 57
	ePPP	42 43
	eS	47 03
	iS	47 08
	eL	56 33
RC	iP	11 40 20
	eP'P'	12 08 00
SLC	iP	11 40 33C
	e	41 03
	eS	50 16
	eL	12 00 32
SJ	iP	11 36 03
	iPP	37 31
	iS	41 44
TUC	iP	11 39 54
	e	43 05
	e(S)	49 28
	eSS	53 44
	eL	57 04
	eP'P'	12 08 19
UK	iP	11 41 05
WASH	iP	11 38 51
	eS	47 03
	eL	53 59
Aug. 26		
EUR	eP	12 21 29
TUC	eP	12 20 44
Aug. 26		
EUR	iP	13 53 02
Aug. 26		
BH	iP	14 01 32
	iS	03 37
BC	eP	14 07 38
BOZ	eP	14 08 15
	e	08 24
BUT	iP	14 08 30
	eS	16 04
	eL	24 10
CHI	e(P)	14 07 05
	eS	13 21
	eL	17 01
COL	iP	14 11 10
	iS	21 20
	ePPS	22 27
	iSS	26 49
	eSSS	30 07
	eL	32 40

Date and Station		Phase (GCT)
		h m s
COLU	iP	14 05 50
	iS	11 16
	eL	13 10
	iL	13 41
EUR	iP	14 08 01
	iPP	10 10
PHIL	eP	14 06 42
	iS	12 59
	iL	16 16
RC	eP	14 07 44
	e	07 52
	eS	15 03
	eL	19 44
SLC	eP	14 07 52
	iP	08 00
	eS	15 12
	eL	20 24
SJ	iP	14 04 11
	iS	08 44
	iL	09 17
TUC	iP	14 07 00
	e	09 05
	eS	13 32
	iL	21 48
WASH	iP	14 06 39
Aug. 26		
COL	eP	14 42 14
Aug. 26		
COL	iP	15 22 16
Aug. 26		
EUR	eP	15 33 03
RC	eP	15 32 25
Aug. 26		
SJ	eP	15 57 22
	i	59 40
Aug. 26		
EUR	iP	16 44 53
Aug. 26		
EUR	eP	16 51 32
Aug. 26		
EUR	eP	17 06 02
KIP	eP	17 04 54
Aug. 26		
EUR	eP	17 22 07
Aug. 26		
EUR	eP	18 34 08
RC	eP	18 33 47
SJ	iP	18 29 30

Date and Station		Phase (GCT)
		h m s
Aug. 26		
COL	eP	19 01 14
EUR	eP	19 04 29
Aug. 26		
COL	eP	20 05 46
	ipP	06 16
EUR	iP	20 06 45
	ipP	07 13
Aug. 26		
EUR	eP	20 22 36
Aug. 26		
COL	eP	20 54 04
Aug. 26		
COL	iP	22 40 23
Aug. 26		
COL	eP	23 11 54
EUR	eP	23 13 05
Aug. 26		
EUR	eP	23 24 09
Aug. 27		
RC	eP	00 21 28
Aug. 27		
EUR	eP	00 41 27
Aug. 27		
EUR	eP	00 57 28
Aug. 27		
TUC	eP	02 52 48
Aug. 27		
RC	eP	05 43 20
Aug. 27		
HH	eP	08 39 59
Aug. 27		
HH	e(P)	09 00 44
	e	01 00
Aug. 27		
HH	eP	10 07 00
Aug. 27		
EUR	eP	10 41 34
HH	eP	10 41 32
RC	eP	10 43 26
Aug. 27		
EUR	eP	11 21 10
Aug. 27		
COL	eP	11 59 57
Aug. 27		
HH	eP	12 06 27

Date and Station		Phase (GCT)
		h m s
Aug. 27		
EUR	iP	14 48 08
HH	iP	14 47 58
Aug. 27		
COL	iP	15 20 15
Aug. 27		
EUR	eP	16 02 49
HH	iP	16 02 57
Aug. 27		
BOZ	eP	17 50 38
BUT	eP	17 50 24
EUR	iP	17 50 13
HH	eP	17 50 15
	i	50 20
RC	e(P)	17 51 49
	e	51 59
Aug. 27		
EUR	eP	18 03 54
Aug. 27		
COL	iP	18 13 39
HH	eP	18 18 04
Aug. 27		
EUR	eP	19 32 17
Aug. 27		
BC	eP	20 45 51
BOZ	eP	20 45 30
EUR	iP	20 45 07
HH	eP	20 45 08
RC	eP	20 46 41
TUC	eP	20 46 46
Aug. 27		
BC	iP	21 08 17
EUR	iP	21 08 23
	i	08 46
TUC	eP	21 08 22
Aug. 27		
EUR	iP	21 22 15
Aug. 28		
BUT	iP	00 02 46
Aug. 28		
EUR	eP	00 19 42

Date and Station		Phase (GCT) h m s
Aug. 28		
HH	eP	07 02 26
Aug. 28		
BC	eP	08 31 56
BOZ	eP	08 32 35
BUT	iP	08 32 31
COL	eP	08 32 39
EUR	eP	08 32 03
HH	eP	08 32 33
RC	eP	08 32 48
TUC	iP	08 31 59
Aug. 28		
EUR	eP	09 43 16
TUC	e(P)	09 44 32
Aug. 28		
BUT	iP	13 46 29
	eP	49 01
	i	50 04
COL	eP	13 46 49
EUR	eP	13 46 30
HH	eP	13 46 20
RC	eP	13 47 01
Aug. 28		
EUR	iP	13 49 02
	i	50 06
HH	iP	13 48 51
	i	49 54
RC	eP	13 49 32
	e	50 36
Aug. 28		
BUT	iP	13 56 38
EUR	iP	13 56 47
HH	iP	13 56 27
RC	eP	13 57 08
Aug. 28		
COL	iP	14 22 09
Aug. 28		
COL	eP	20 10 25
EUR	iP	20 12 30
HH	eP	20 12 22
RC	eP	20 13 03

Date and Station		Phase (GCT) h m s
Aug. 28		
COL	eP	21 11 21
EUR	eP	21 14 48
Aug. 28		
COL	eP	22 06 34
Aug. 28		
BC	eP	23 29 51
BOZ	eP	23 29 46
COL	eP	23 27 28
EUR	iP	23 29 40
HH	iP	23 29 29
	e	56 36
RC	eP	23 30 12
TUC	eP	23 30 13
Aug. 28		
BOZ	eP	23 34 00
BUT	iP	23 34 54
EUR	iP	23 34 05
	i	34 22
RC	eP	23 33 51
	i	34 07
SJ	eP	23 29 56
	i	30 12
TUC	iP	23 33 15
	i	33 33
Aug. 28		
BC	iP	23 35 06
COL	iP	23 32 42
EUR	iP	23 34 54
HH	iP	23 34 46
	ePPP	39 59
KIP	eP	23 31 43
RC	iP	23 35 26
TUC	iP	23 35 27
Aug. 28		
EUR	eP	23 40 09
Aug. 28		
EUR	eP	23 56 45
Aug. 28		
BC	iP	00 02 58
BOZ	eP	00 02 53

Date and Station		Phase (GCT) h m s
COL	iP	00 00 35
EUR	iP	00 02 27
	i	02 47
HH	iP	00 02 39
	e(P'P')	28 42
KIP	eP	23 59 36
RC	eP	00 02 59
	iP	03 19
TUC	i(P)	00 03 21
Aug. 29		
COL	eP	00 42 23
EUR	iP	00 44 34
RC	eP	00 45 15
Aug. 29		
BC	eP	01 10 31
BOZ	eP	01 10 26
	i	10 34
BUT	iP	01 10 20
COL	iP	01 08 08
EUR	iP	01 10 20
HH	iP	01 10 11
RC	eP	01 10 54
	i	11 01
TUC	eP	01 10 54
Aug. 29		
HH	eP	01 43 26
	i	43 34
Aug. 29		
TUC	eP	02 09 53
Aug. 29		
BC	eP	02 27 57
BUT	eP	02 27 54
COL	eP	02 25 40
EUR	iP	02 27 51
HH	eP	02 27 42
RC	eP	02 28 28
TUC	eP	02 28 29
Aug. 29		
EUR	eP	03 49 49
HH	eP	03 49 38
	i	49 43

Date and Station		Phase (GCT) h m s
Aug. 29		
EUR	eP	07 12 18
HH	eP	07 12 14
Aug. 29		
COL	eP	07 24 10
Aug. 29		
BC	eP	07 41 34
BOZ	eP	07 41 29
BUT	iP	07 41 22
COL	eP	07 39 11
EUR	eP	07 41 19
HH	eP	07 41 10
RC	eP	07 41 56
SLC	eP	07 41 34
TUC	eP	07 41 55
Aug. 29		
EUR	eP	07 58 47
	i	58 50
Aug. 29		
HH	eP	12 57 12
Aug. 29		
BUT	iP	12 59 38
	ipP	13 00 10
	i	00 21
EUR	iP	12 59 19
	ipP	59 51
HH	iP	12 59 49
	ipP	13 00 20
RC	eP	12 59 12
	ipP	59 43
TUC	eP	12 58 34
Aug. 29		
COL	eP	13 27 22
Aug. 29		
COL	eP	14 14 50
	ipP	17 01
EUR	eP	14 14 33
Aug. 29		
HH	eP	14 18 51
Aug. 29		
COL	eP	14 34 41
EUR	eP	14 35 17

Date and Station		Phase (GCT) h m s
Aug. 29		
BUT	iP	16 52 52
COL	eP	16 50 40
EUR	iP	16 52 52
HH	iP	16 52 42
RC	eP	16 53 23
SLC	eP	16 53 04
Aug. 29		
COL	eP	19 10 34
EUR	eP	19 12 49
HH	eP	19 12 36
RC	eP	19 13 19
Aug. 29		
RC	eP	19 44 04
Aug. 30		
EUR	eP	04 03 32
TUC	eP	04 03 29
Aug. 30		
EUR	iP	11 53 19
HH	eP	11 53 10
Aug. 30		
EUR	eP	11 55 39
Aug. 30		
BC	iP	12 40 28
	i	40 48
EUR	eP	12 40 40
	i	41 18
SLC	eP	12 41 38
Aug. 30		
COL	eP	15 48 08
EUR	iP	15 50 17
HH	iP	15 50 07
Aug. 30		
BOZ	eP	16 31 24
BUT	iP	16 31 19
COL	iP	16 29 18
	i	30 44
EUR	eP	16 31 50
HH	iP	16 31 10
RC	eP	16 31 30
	ePP	35 19

Date and Station		Phase (GCT) h m s
Aug. 30		
EUR	eP	16 48 00
Aug. 30		
COL	iP	17 02 29
EUR	iP	17 05 28
HH	eP	17 05 04
RC	eP	17 06 04
Aug. 30		
COL	eP	20 15 28
HH	eP	20 17 34
Aug. 30		
BOZ	eP	20 57 50
BUT	iP	20 57 51
COL	eP	20 55 33
EUR	iP	20 57 44
HH	iP	20 57 35
RC	eP	20 58 17
Aug. 30		
EUR	iP	21 07 56
HH	eP	21 07 50
Aug. 30		
EUR	iP	21 23 53
HH	iP	21 23 43
	i	23 50
RC	eP	21 24 32
Aug. 31		
COL	eP	00 17 42
EUR	eP	00 21 19
Aug. 31		
COL	eP	01 58 28
	ipP	02 00 24
Aug. 31		
EUR	eP	02 04 44
Aug. 31		
COL	eP	02 13 31
Aug. 31		
COL	eP	04 35 33
Aug. 31		
HH	eP	12 09 32
	e	09 42
Aug. 31		
BOZ	eP	12 13 29
	e	13 37

Date and Station		Phase (GCT) h m s
BUT	eP	12 13 24
EUR	eP	12 13 52
COL	eP	12 10 40
HH	eP	12 13 11
	i	13 19
RC	eP	12 13 52
Aug. 31		
BC	iP	12 30 29
	i	30 47
EUR	iP	12 30 40
	i	31 16
Aug. 31		
BC	e(P)	12 39 46
	e	40 09
EUR	e(P)	12 40 08
TUC	e(P)	12 42 08
Aug. 31		
COL	eP	13 40 09
Aug. 31		
EUR	eP	15 59 18
	iL	16 00 14
Aug. 31		
EUR	iP	19 05 58
RC	e(P)	19 02 29

Date and Station	Phase (GCT) h m s

0-4297-4

LOCAL AND MINOR EARTHQUAKES

Date and Station	Hour (G.C.T.)
COL	
Aug.	
2	02.9
	14.4
3	00.7
	01.5
	19.3
4	02.4
5	06.1
	16.0
	17.3
	20.4
6	16.7
	20.8
	20.5
	22.2
	23.7
7	02.3
	08.2
	08.5
	13.4
	15.8
	18.0
8	20.6
9	07.1
	07.4
	13.5
	16.0
	17.5
	22.4
10	05.3
	06.0
	09.0
	14.8
	16.2
	23.4
	23.5
12	03.1
	04.3
	16.5
	21.7
13	10.8
15	08.7
	17.7
16	22.3
	22.7
	23.6
17	09.7
	09.9
19	03.8
20	18.3
	21.9
21	23.5
22	11.2
23	02.2
	08.5
	23.5
24	10.5
25	11.2
	12.3
	20.7
26	00.0
	15.4
	23.1
27	14.2
	15.3
	18.2
28	00.8
	14.6
	18.9

Date and Station	Hour (G.C.T.)
COL	
Aug.	
30	23.8
31	14.3
	15.2
EUR	
Aug.	
6	07.4
7	03.5
11	14.9
12	08.7
18	07.7
21	04.7
22	19.8
28	01.3
HONO	
Aug.	
6	00.8
11	00.7
	14.7
	19.7
12	19.6
	20.9
	21.9
13	02.4
16	23.5
18	22.7
21	01.4
27	03.0
28	20.0
30	01.5
SLC	
Aug.	
2	23.0
3	22.9
5	23.3
6	19.0
8	23.0
10	23.1
11	22.6
12	23.0
15	23.4
16	22.8
18	23.2
21	22.9
22	22.8
23	22.9
SJ	
Aug.	
5	17.5
8	04.7
14	03.1
28	05.6
UK	
Aug.	
4	13.4
6	21.5
7	13.0
13	14.6
17	07.5
20	23.7
23	13.1
30	13.3
31	13.1
	13.1

Date and Station	Hour (G.C.T.)
UK	
Aug.	
31	13.1
TUC	
Aug.	
1	11.3
2	03.4
3	08.4
4	17.0
5	18.0
5	23.2
6	07.4
7	07.3
8	03.3
10	00.6
	09.5
11	07.2
	07.8
12	03.1
13	10.8
	23.8
14	09.6
	20.2
	21.5
18	06.0
	12.0
	15.3
	23.3
20	03.8
	06.5
26	08.2
27	05.9
	06.0
	20.7
28	02.0
29	11.9
	12.0
31	12.5

Date and Station	Hour (G.C.T.)

8 4297-4