No. 9 **Jan.–June 1960**

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

NORD

$\varphi = 81°36'$ N. $\lambda = 16°41'$ W. $h = 35$ m.

Lithologic foundation: calcareous greywacke

Instruments.

Willmore. Z. $T_p = 1$ sec, $T_g = {}^1/_4$ sec. No attenuation.

Strobach. N and E. $T = 6$ sec, $v = 15{:}1$, $V_0 = 500$. (Belongs to Geophysikalisches Institut, Hamburg.)

Seismological Readings. Distant quakes.

Phases are indicated by the symbols used in ISS. Times are given in GMT. Positions of epicenters are most often due to USCGS. The periods given are periods of full oscillations. For N and E the amplitudes given are single ground amplitudes. For Z trace amplitudes are given. C means compression, D dilatation.

Seismological Readings. Local shocks.

Readings assumed to be P and S are given. Some tremors of not-seismic origin may be included.

Nord 1960

January

2 *eP·Z* 5h20m00s
Δ = 91°. Sumatra.

2 *eP·Z* 23 21 26
Δ = 90°. Sumatra.

3 *iP·Z* 11 32 49
Δ = 49°. Sinkiang, China.

3 *iP·Z* 20 27 14 *D*
Δ = 44°. *h* = 250 km. Tyrrhenian Sea.

7 *eP·Z* 23 30 06
Δ = 87°. Nicobar Islands.

9 *eP·Z* 4 07 22
Δ = 48°. Turkey.

9 *iP·Z* 7 33 03 *C*
ipP·Z 34 05
Δ = 54°. *h* = 200 km. Hindu Kush.

12 *eP·Z* 2 04 11
Δ = 73°. Formosa.

13 *eP·ZNE* 15 54 06
i·Z 54 16
ePP·ZNE 58 16
iSKS·NE 16 04 44
eS·NE 05 15
eSS·NE 12 40
Δ = 101°. *h* = 200 km. Peru.

13 *eP·Z* 16 38 15
Δ = 47°. Aleutian Islands.

14 *eP·Z* 2 54 18
Δ = 88°. Sumatra.

14 *iP·Z* 10 36 09 *C*
Δ = 62°. Japan.

15 *ePP·NE* 9 47 59
eSKS·NE 54 38
iS·N 55 31
No *Z*-record. Δ = 100°. *h* = 150 km. Peru

16 *iP·Z* 20 55 58 *D*
iScP·Z 21 02 08
Δ = 34°. *h* = 150 km. Alaska.

18 *eP·Z* 9 17 50
Δ = 92°. Philippine Islands.

19 *iP·Z* 2 25 26 *C*
i·Z 25 42
Δ = 47°. Kamchatka.

January

23 *eP·Z* 4h54m34s
eSKS·NE 5 05 26
eSS·NE 13.0
Δ = 100°. Ceram Island.

23 *eP·Z* 7 45 06
eSKS·NE 55 30
Repetition.

24 *L·E* 1 02

24 *ePP·NE* 4 41 19
ePS·N 50 54
L·N 5 15
Δ = 113° Fiji Islands.

25 *L·E* 17 29

26 *eP·Z* 13 14 11
Δ = 47°. Turkey.

28 *eP·Z* 8 58 32
Δ = 55°. Japan.

31 *eP·Z* 5 18 54
eSS·NE 31 55
L·N 41
Δ = 64°. Japan.

February

1 *eP·Z* 14 04 50
Δ = 48°. Kamchatka.

3 *L·NE* 12 06

3 *iP·Z* 12 58 29
Δ = 55°. Japan.

4 *eSKS·NE* 4 11 05
L·NE 35
Δ = 103°. New Ireland.

4 *L·NE* 17 18

8 *iPKP·Z* 13 05 02
Δ = 142°. Drake Strait.

10 *eP·NE* 00 09 54 No *Z*-record.
iSKS·E 20 19
eS·E 21 15
ePS·E 22 32
L·NE 44
Δ = 101°. Ceram Sea.

February

16 *eP·Z* 13h24m47s
Δ = 61°. North Atlantic Ocean.

18 *iP·Z* 22 34 33
A = 47°. Aleutian Islands.

19 *iP·ZNE* 10 45 54 *C*
ipP·ZE 46 42
isP·Z 46 58
e·N 52 21
iS·NE 53 13
isS·NE 54 31
iSS·N 56 53
e·N 58 21
L·NE 11 07
Δ = 54°. *h* = 200 km. Hindu Kush.

21 *eP·Z* 8 22 01
Δ = 46°. Algeria.

22 *eP·Z* 5 19 48
iS·Z 21 38
Δ = 11°. Jan Mayen.

23 *iP·Z* 2 18 52 *C*
e·Z 19 54
e·Z 20 34
Δ = 54°. *h* = 200 km. Hindu Kush.

23 *eP·Z* 7 42 43
Δ = 45°. Greece.

24 *L·NE* 22 27

25 *iP·Z* 8 24 33 *C* 5 mm
i·Z 24 48 10 mm

25 *iP·Z* 13 21 06 *C* 8 mm
i·Z 21 29 17 mm

25 *eP·Z* 19 39 34 2 mm
e·Z 39 52 5 mm

26 *eP·Z* 21 40 28
Δ = 71°. *h* = 150 km. Mexico.

26 *eP·ZNE* 23 37 59
L·NE 56
Δ = 47°. Aleutian Islands.

27 *eP·Z* 8 18 36
Repetition.

29 *iP·Z* 5 35 04 *C*
Δ = 82°. *h* = 150 km. Philippine Islands.

29 *eP·Z* 23 49 22
iS·N 56 41
L·NE 24 06
Δ = 51°. *h* = 2 km. Agadir, Morocco.

March

2 *eP·Z* 0h21m42s
L·NE 51
Δ = 71°. Mexico.

2 *L·NE* 22 11

3 *eP·Z* 14 24 04
Δ = 50°. Sinkiang Province, China.

4 *eP·Z* 2 24 37
Δ = 48°. Aleutian Islands.

4 *iP·Z* 4 03 43
Δ = 67°. *h* = 100 km. Japan.

4 *eP·Z* 16 27 53
Δ = 11°. Jan Mayen.

4 *eP·Z* 21 18 26
Δ = 86°. Nicobar Islands.

5 *iP·Z* 11 35 26
Δ = 63°. Nepal.

5 *eP·Z* 14 02 48
eSKS·NE 13 18
ePS·NE 15 13
eSS·NE 20 13
L·NE 36
Δ = 96°. Halmahera Island.

6 *eP·Z* 4 22 53
L·NE 46
Δ = 67°. Gulf of California.

7 *iP·Z* 5 26 34
Δ = 95°. Celebes.

8 *iPKP·Z* 16 51 52
iSP·Z 17 02 27
iPS·N 02 43
ePPS·N 03 53
eSS·NE 10.3
Δ = 115°. *h* = 250 km. New Hebrides Islands.

10 *eP·Z* 0 08 04
Δ = 101°. *h* = 150 km. Peru.

12 *iP·Z* 12 01 52
Δ = 42°. Yugoslavia.

15 *iP·Z* 9 29 32
Δ = 47°. Aleutian Islands.

18 *iP·Z* 1 26 09
Δ = 73°. *h* = 150 km. Guatemala.

20 *iP·Z* 13 46 46
Δ = 59°. Japan.

March
20 *iP·Z* 17h17m23s
i·Z 17 31 *D*
e·N 19 42
iS·NE 25 25
i·NE 25 53
iScS·N 27 15
eSS·E 29.5
eSSS·NE 31.7
L·NE 33.5
$\Delta = 59°$. Japan.

20 *eP·Z* 23 39 17
$\Delta = 66°$. Mid Atlantic ridge.

21 *eP·Z* 0 44 47
$\Delta = 59°$. Japan.

21 *eP·Z* 7 28 29
$\Delta = 49°$. Crete.

21 *eP·Z* 9 28 19
$\Delta = 59°$. Japan.

22 *eP·Z* 13 30 53
L·NE 56
$\Delta = 69°$. $h = 150$ km. Mexico.

22 *eP·Z* 20 17 31
i·Z 17 32 *C*
eS·Z 17 54

23 *eP·N* 0 33 28 No *Z*-record.
iS·NE 41 32
L·NE 50
$\Delta = 59°$. Japan.

23 *iP·Z* 22 32 37 *C*
eS·NE 40 46
L·NE 50
$\Delta = 59°$. Japan.

24 *iP·Z* 3 05 42
$\Delta = 48°$. Aleutian Islands.

27 *iP·Z* 20 27 00
L·NE 53
$\Delta = 71°$. Mexico.

28 *iP·Z* 0 25 43 *C*
L·NE 52
$\Delta = 79°$. Panama.

29 *ePKP·Z* 6 49 39
ePP·NE 51.1
eSKS·NE 56 20
ePS·N 7 00 35
eSS·NE 06.3
L·NE 26
$\Delta = 115°$. New Hebrides Islands.

March
30 *eP·Z* 13h01m56s
eS·Z 04 12
L·NE 06
$\Delta = 12°$. South of the station.

31 *iP·Z* 0 51 42
$\Delta = 80°$. $h = 250$ km. Mariana Islands.

31 *eP·Z* 20 06 55
L·NE 29
$\Delta = 65°$. Gulf of California.

April
1 *L·NE* 14 36

5 *eP·Z* 17 29 20
e·Z 29 30
$\Delta = 17°$. North Atlantic Ocean.

12 *eP·Z* 4 31 07
$\Delta = 47°$. Turkey.

12 *eP·Z* 20 49 48
i·Z 49 52 *C*
$\Delta = 48°$. Outher Mongolia.

13 *eP·Z* 12 49 08
L·NE 13 16
$\Delta = 73°$. Guatemala-Mexico border.

15 *iP·Z* 11 48 37 *D*
$\Delta = 58°$. $h = 150$ km. Japan.

15 *iP·Z* 13 19 15
$\Delta = 47°$. Turkey.

18 *iP·Z* 8 17 34 *D*
$\Delta = 70°$. $h = 450$ km. Bonin Islands.

21 *iP·Z* 11 58 53 *D* trace ampl.: 4 mm.
iS·Z 59 21 trace ampl.: 10 mm.
$\Delta = 2^1/_2°$.

24 *iP·Z* 3 35 15 *D*
iPP·ZNE 39 37 *D*
eSP·NE 47 32
ePS·NE 49 13
iPKKP·Z 51 23 *C*
esPS·NE 51 30
$\Delta = 102°$. $h = 600$ km. Java Sea.

24 *iP·Z* 8 17 28 *D* trace ampl.: 5 mm.
iS·Z 17 59 trace ampl.: 12 mm.
$\Delta = 2^1/_2°$.

April

24 *iP·Z* 12h24m37s *D*
eS·E 32 47
L·NE 44
Δ = 60°. Southern Iran (Lar).

25 *iP·Z* 9 32 58 *C* trace ampl.: 5 mm.
eS·Z 33 24 trace ampl.: 9 mm.
Δ = 2½°.

25 *eP·Z* 15 01 46
Δ = 41°. Kodiak Island.

28 *eP·Z* 0 57 28
iPP·Z 59 11 *C*
Δ = 45°. Aleutian Islands.

28 *iP·Z* 16 42 13 *C*
Δ = 49°. Dodecanese Islands.

28 *iP·Z* 18 52 46 *D* trace ampl.: 1 mm.
i·Z 52 47 trace ampl.: 3 mm.
e(S)·Z 52 56 trace ampl.: 8 mm.

29 *iP·Z* 19 45 43 *D*
Δ = 97°. Celebes.

30 *iP·Z* 21 26 23 *D* trace ampl.: 3 mm.
iS·Z 26 47 trace ampl.: 7 mm.

May

2 *iP·Z* 1 08 48 *C*
Δ = 49°. Sinkiang province, China.

2 *eP·Z* 12 23 43
Δ = 97°. Celebes.

4 *iP·Z* 10 10 04 *C* trace ampl.: 2 mm.
iS·Z 10 24 trace ampl.: 5 mm.

5 *iP·Z* 11 34 28 *D*
Δ = 47°. Kamchatka.

6 *eP·Z* 12 24 41
Δ = 75°. Mexico.

6 *eP·Z* 18 55 41
Δ = 45°. Kamchatka.

7 *iP·Z* 14 20 59 *C*
Δ = 56°. Japan.

9 *iP·Z* 0 22 05 *C*
e·Z 22 32
Δ = 68°. Deep? Ryukyu Islands.

9 *iP·Z* 16 39 13 *C*
Δ = 75°. Atlantic Ocean.

May

10 *iP·Z* 23h27m49s *C*
Δ = 73°. Mexico.

10 *iP·Z* 23 28 19 *C*
Δ = 63°. *h* = 100 km. Japan.

12 *iP·Z* 22 44 36 *D*
iS·N 54 37
L·N 23 10
Δ = 79°. Panama. No *E*-record.

13 *iP·Z* 16 15 10 *C*
eSS·N 24 7
L·N 28
Δ = 43°. Alaska Peninsula. No *E*-record.

14 *iP·Z* 22 28 14 *C*
Δ = 46°. Kamchatka.

15 *iP·Z* 21 45 13 *C*
Δ = 44°. Alaska Peninsula.

17 *iPn·Z* 9 20 49
ePb·Z 20 59
iPg·Z 21 10
eSn·Z 21 47
Δ = 5°. Svalbard.

18 *eP·Z* 6 46 02
i·Z 46 05
eS·N 54 37
L·E 7 07
Δ = 68°. *h* = 100 km. Ryukyu Islands.

18 *iP·Z* 8 51 12 *C*
Δ = 61°. Persian Gulf.

19 *iP·Z* 2 16 10 *C*
i·Z 16 12
iS·NE 23 40
Δ = 54°. 200 km. Hindu Kush.

20 *eP·Z* 4 24 33
Δ = 61°. Persian Gulf.

20 *iPKP·Z* 11 31 38 *D*
eSKS·N 38.7
L·N 12 12
Δ = 127°. Norfolk Island.

21 *eP·Z* 6 49 38
Δ = 47°. Greece.

21 *iP·Z* 8 29 17 *C*
Δ = 81°. Philippine Islands.

May				
21	*ePKP·Z*	10h21m47s		
	i·Z	21 51		
	ePP·NE	23 21		
	eSKKS·N	30.0		
	ePS·E	33 31		
	iSS·NE	39 59		
	L·NE	58		
	Δ = 122°. Chile.			
21	*ePKP·Z*	11 12 49		
	i·Z	12 52		
	iPKP·Z	12 40 11		
	iPKP·Z	13 18 56		
	iPKP·Z	14 18 13		
	iPKP·Z	15 27 33		
22	*ePKP·Z*	4 05 19		
	Δ = 122°. 6 aftershocks.			
22	*iPKP·Z*	10 49 34	*D*	
	ePS·N	11 01 06		
	eSS·N	07 51		
	L·NE	29		
	Δ = 123°. Chile.			
22	*ePKP·Z*	10 51 39		
	ePP·NE	53 11		
	ePS·NE	03 16		
	eSS·NE	09 46		
	Δ = 123°. Chile.			
22	*ePKP·Z*	12 35 41		
	Δ = 123°. Aftershock.			
22	*ePKP·Z*	19 14 53		
	ePP·Z	16 31		
	Δ = 123°. Chile. No *H*-record.			
22	*ePKP·Z*	19 29 34		
	Δ = 123°. Chile. No *H*-record.			
22	*ePKP·Z*	19 30 07		
	Δ = 124°. Chile main shock. No *H*-record.			
22	*i·Z*	20 35 49		
	i·Z	20 50 57		
	i·Z	21 03 56		
	i·Z	22 11 16		
	e·Z	22 26 31		
	i·Z	22 40 34		
	Probably 6 aftershocks.			
22	*iPKP·Z*	23 23 36	Δ = 126°	
	iPKP·Z	23 25 59	Δ = 126°	
	iPKP·Z	23 51 38	Δ = 126°	

May				
23	*iPKP·Z*	0h15m07s	Δ = 127°	
	ePKP·Z	0 44 41	Δ = 123°	
	ePKP·Z	1 00 40	Δ = 124°	
	ePKP·Z	1 53 52	Δ = 122°	
	ePKP·Z	3 05 35	Δ = 127°	
	ePKP·Z	3 15 22	Δ = 128°	
	ePKP·Z	5 32 33	Δ = 123°	
	10 aftershocks.			
23	*ePKP·Z*	7 28 33		
	eSKP·Z	32 03		
	Δ = 133°. Chile. No *H*-record.			
23	*ePKP·Z*	10 57 05	Δ = 129°	
	ePKP·Z	14 19 35	Δ = 132°	
	2 shocks. Chile.			
23d18h5–24d18h5. No *Z*-record.				
24	*ePKP·NE*	15 06 20		
	ePKS·NE	09 55		
	L·NE	51		
	Δ = 148. New Zealand.			
24	*ePKP·Z*	20 52 01		
	i·Z	52 06		
	Δ = 136°. Chile.			
25	*ePKP·Z*	5 03 23		
	Δ = 132°. Chile.			
28	*ePKP·Z*	8 53 42		
	iPKS·NE	57 11		
	eSKKS·N	9 02 56		
	L·NE	35		
	Δ = 131°. Chile.			
25	*iPKP·Z*	13 04 40	*C*	
	Δ = 127°. Chile.			
25	*e·Z*	21 10 58		
26	*ePKP·Z*	1 48 09		
	Δ = 126°. Chile.			
26	*eP·Z*	5 18 13		
	i·Z	18 14	*D*	
	iS·NE	24 38		
	eSS·NE	27 48		
	L·NE	31.8		
	Δ = 44°. Albania.			
26	*iP·Z*	18 17 46		
	Δ = 89°. Sumatra.			
26	*iP·Z*	20 15 58	*C*	
	Δ = 67°. Assam.			

May

27 *ePKP·Z* 23h19m11s $\Delta = 131°$
iPKP·Z 23 39 42 $\Delta = 130°$

28 *iPKP·Z* 6 25 16 $\Delta = 132°$
iPKP·Z 11 03 10 $\Delta = 126°$
ePKP·Z 11 24 33 $\Delta = 123°$
5 shocks. Chile.

28 *iP·Z* 11 43 57
$\Delta = 50°$. Crete.

28 *iPKP·Z* 11 58 42 $\Delta = 129°$

29 *ePKP·Z* 7 58 26 $\Delta = 123°$
ePKP·Z 8 53 16 $\Delta = 123°$
ePKP·Z 21 43 00 $\Delta = 130°$
4 shocks. Chile.

31 *eP·Z* 0 35 21
$\Delta = 73°$. Gulf of Aden.

31 *iPKP·Z* 2 59 01
$\Delta = 125°$. Chile.

31 *iP·Z* 11 13 08
iS·E 21 53
L·E 31
$\Delta = 66°$. Lesser Antilles.

31 *eP·Z* 11 53 04
Aftershock.

31 *iP·Z* 16 38 53
$\Delta = 126°$. Chile.

31 *iP·Z* 21 13 28 *D*
$\Delta = 99°$. $h = 600$ km. Java Sea.

June

1 *ePKP·Z* 5 21 52
ePS·Z 33 22
$\Delta = 123°$. Chile.

1 *iPKP·Z* 14 25 53 $\Delta = 130°$

2 *ePKP·Z* 2 58 09 $\Delta = 125°$
iPKP·Z 6 17 14 $\Delta = 132°$
3 quakes. Chile.

2 *eP·Z* 7 32 02
$\Delta = 55°$. Iran.

2 *eP·Z* 12 52 04
ePcP·Z 53 08
$\Delta = 54°$. Iran.

June

3 *eP·Z* 16h27m40s
$\Delta = 56°$. $h = 100$ km. Japan.

3 *L·NE* 22 10

4 *iP·Z* 2 38 18s *C*
L·N 3 04
$\Delta = 70°$. Mexico.

4 *eP·Z* 8 17 34
$\Delta = 42°$. Azores.

4 *iP·Z C* 9 00 06
$\Delta = 50°$. Crete.

4 *eP·Z* 9 23 53
eS·Z 24 46
$\Delta = 5°$.

4 *eP·Z* 11 13 00
$\Delta = 42°$. Azores.

4 *e·Z* 22 30 07

6 *iP·Z* 1 27 05 *D*
iS·NE 34 33
L·NE 43
$\Delta = 53°$. California.

6 *e(L)·Z* 2 56 35

6 *ePKP·Z* 6 14 55
iPKS·NE 18 19
eSS·N 34 23
L·N 50
L_Q (229°)? *NE* 7 32 $T = 100$ sec.
$\Delta = 131°$. Chile.

7 *iP·Z* 13 05 37 *C*
$\Delta = 46°$. Kamchatka.

8 *eP·Z* 16 28 20
e·Z 28 24
eS·NE 35 14
L·NE 42
$\Delta = 47°$. North Atlantic Ocean.

9 *iP·Z* 17 55 48 *D*
iS·NE 18 02 20
L·N 09
$\Delta = 44°$. Azores.

9 *eP·Z* 23 08 08
$\Delta = 90°$. Sumatra.

10 *e·Z* 7 21 40

June

11 *ePP·N* 15h32m41s
eSKS·NE 39 08
ePS·NE 42 13
L·NE 16 03
Δ = 107°. New Guinea.

11 *ePP·NE* 16 56 23
eSKS·N 17 02 38
L·E 32
Repetition.

13 *ePKP·Z* 6 06 17 Δ = 130°

14 *ePKP·Z* 3 13 20 Δ = 128°
2 shocks. Chile.

14 *e·Z* 11 42 22

15 *i·Z* 15 46 44 *C*

16 *eP·Z* 3 37 15
Δ = 86°. *h* = 150 km. Mariana Islands.

16 *iP·Z* 6 50 41 *D*
Δ = 84°. Philippine Islands.

16 *i·Z* 16 18 14 *D*

16 *e·Z* 17 35 11

17 *iP·Z* 16 44 02 *C*
ePPP·N 46 38
eS·E 50 48
L·NE 58
Δ = 47°. Aleutian Islands.

18 *iP·Z* 2 13 03 *C*
Δ = 50°. Crete.

18 *iP·Z* 23 46 12 *C*
Δ = 100°. Sumatra.

19 *iP·Z* 2 33 37 *D*
i·Z 35 57 *D*
Δ = 82°. Andaman Islands.

19 *eP·Z* 17 28 39
Δ = 70°. Bonin Island.

20 *ePKP·Z* 2 20 05
ePP·NE 21 41
eSKKS·E 28 49
eSKSP·N 31 26
eSS·NE 38 21
L·NE 3 00
Δ = 123°. Chile.

June

20 *ePKP·Z* 13h18m40s
ePP·NE 20 24
eSS·NE 37 14
L·NE 14 01
Δ = 124°. Chile.

21 *iP·Z* 12 56 50 *C*
Δ = 94°. Molucca Passage.

22 *iP·Z* 23 37 16
iPCP·Z 38 53
Δ = 46°. Aleutian Islands.

25 *iP·Z* 14 05 43
Δ = 79°. Colombia.

25 *ePKP·Z* 15 00 54
L·NE 43
Δ = 129°. Kermadec Islands.

25 *i·Z* 20 04 19 *C*

26 *ePKP·Z* 6 36 00
Δ = 130°. Chile.

26 *e·Z* 7 45 25

28 *eP·Z* 21 11 38
Δ = 47°. Mongolia.

29 *ePKP·Z* 2 16 21
L·NE 3.1
Δ = 131°. Chile.

29 *ePKP·Z* 4 48 20
Δ = 128°. Kermadec Islands.

29 *eP·Z* 5 25 10
Δ = 68°. *h* = 500 km. Japan.

29 *eP·Z* 10 29 51
Δ = 35°. Atlantic Ocean.

29 *eP·Z* 17 15 16
L·NE 31
Δ = 45°. Aleutian Islands.

30 *iP·Z* 20 05 37 *D*
ePP·Z 07 06
Δ = 37°. Alaska.

December 1962 HENRY JENSEN

Local shocks.

		(P)		(S)
January				
1	11h	*e* 13m19s		
	11	*e* 32	04	*i* 32m07s
	20	*e* 46	22	
2	0	*i* 04	38	
	10	*e* 42	05	
	14	*e* 50	52	*e* 51 11
	22	*e* 46	04	*e* 46 20
3	0	*i* 48	44	*e* 49 09 !
4	5	*e* 56	15	
	7	*e* 45	16	*e* 45 51
	7	*i* 46	58	
6	8	*e* 58	46	
8	2	*e* 17	40	
	8	*e* 55	05	
9	5	*e* 07	00	*e* 07 22
11	3	*i* 02	40	*i* 03 11
	4	*e* 55	44	*e* 56 15
11	21	*i* 40	14	*e* 40 50
12	2	*e* 24	21	*e* 24 36
	2	*e* 24	54	*e* 25 31
13	16	*e* 55	49	*e* 56 24
14	5	*e* 19	38	*e* 19 49
16	1	*e* 35	05	
	13	*e* 51	57	*i* 52 24
17	22	*e* 10	00	*e* 10 46
20	1	*e* 26	48	
	7	*i* 32	30	
	13	*e* 00	55	*e* 01 13
22	0	*e* 03.3		*e* 04.0
23	16	*e* 42	17	*e* 42 22
25	5	*e* 48	14	
26	3	*e* 19	49	*e* 20 23
26	23	*e* 49	23	*i* 50 06
27	12	*e* 06	47	*e* 07 08
27	23	*i* 58	21	*i* 58 40
28	5	*e* 03	18	
28	14	*e* 49	43	
28	23	*e* 09	06	
29	0	*e* 23	31	
29	1	*e* 21	06	
29	2	*e* 40	49	*e* 41 21
29	14	*e* 55	48	*e* 55 55
30	9	*e* 56	04	
31	2	*e* 29	19	
31	9	*e* 31	09	*e* 31 38
31	10	*e* 17	03	
February				
1	7	*e* 06	52	
2	22	*e* 24	52	*e* 25 17
3	1	*e* 34	43	*e* 35 08
4	3	*e* 02	42	*i* 02 57
4	21	*e* 07	52	
4	22	*e* 30	02	*e* 30 51
5	7	*e* 18	46	

		(P)		(S)
February				
5	9h	*e* 11m15s		*e* 11m48s
6	21	*e* 28	53	
7	19	*i* 13	15 *C*	*e* 13 37
7	20	*i* 30	40	*e* 31 00
11	9	*i* 27	06	*e* 27 22
11	23	*e* 21	53	*e* 22 14
12	8	*e* 25	26	
12	22	*e* 21	33	*i* 21 53
13	21	*e* 31	29	
14	8	*e* 36	11	
16	21	*e* 51	13	*e* 51 37
17	20	*e* 47	56	
18	0	*i* 19	53	*i* 20 32
18	2	*e* 08	45	
19	4	*e* 01	13	
19	16	*e* 14	55	
19	17	*e* 46	10	*e* 46 26
20	23	*e* 21	50	
20	23	*e* 30	42	
22	5	*e* 13	19	
22	12	*e* 14	07	*e* 14 25
22	13	*i* 37	58 *D*	
23	3	*e* 25	00	
23	11	*e* 03	28	*e* 03 55
24	0	*e* 17	42	
24	8	*e* 35	51	
24	8	*e* 38	36	
24	19	*e* 10	52	
25	2	*e* 18.4		*e* 18 54
25	8	*i* 24	33 *C*	*i* 24 48
	Trace ampl.: 5 mm. 10 mm.			
25	13	*i* 21	06 *C*	*i* 21 29
	Trace ampl.: 8 mm. 17 mm.			
25	14	*i* 10	39	
25	14	*e* 47	03	
25	19	*e* 39	34	*e* 39 52
	Trace ampl.: 2 mm. 5 mm			
26	21	*e* 40	28	
27	2	*i* 58	16	
27	4	*e* 29	36	
27	9	*i* 01	28	*e* 01 29
27	17	*e* 58	26	
28	3	*e* 08	25	
28	3	*e* 10	43	
28	8	*e* 39	52	*e* 40 26
28	17	*e* 08	26	
28	19	*e* 17	36	
29	4	*i* 04	27	
29	6	*e* 49	05	*e* 49 30
29	19	*e* 20	26	
March				
3	4	*e* 51	00	
3	11	*e* 03	37	
3	19	*e* 48	40	

		(P)			(S)	
March						
4	3h	*i*	38m12s	D	*e*	38m18s
4	4	*e*	14 37			
8	10	*e*	02 02			
8	20	*e*	26 40			
9	9	*i*	30 07			
9	21	*e*	57 09			
10	03	*e*	37 41			
10	19	*e*	21 48			
11	13	*i*	14 30			
11	22	*e*	56 55		*e*	57 19
12	7	*e*	59 33			
12	8	*e*	57 08			
12	16	*e*	01 52			
12	22	*e*	07 36			
13	17	*e*	06 14			
13	23	*e*	43 11			
	Trace ampl.: 5 mm					
14	0	*e*	27 04			
	Trace ampl.: 2 mm					
17	8	*e*	42 34			
17	9	*e*	12 34			
17	9	*e*	14 25			
17	15	*e*	41 46		*e*	42 19
18	6	*e*	59 36			
18	9	*e*	12 53			
18	14	*e*	46 27			
18	15	*e*	41 04			
19	9	*e*	20 11		*e*	20 39
19	11	*i*	16 16		*i*	16 18
20	1	*e*	31 32		*i*	31 56
20	12	*i*	05 14		*i*	05 32
22	20	*e*	17 31		*e*	17 54
25	2	*i*	30 24			
25	14	*e*	23 17			
27	2	*e*	22 43		*e*	23 03
27	15	*e*	23 07		*e*	23 18
28	18	*e*	00 33			
28	18	*e*	12 07		*e*	12 27
29	2	*e*	18 34			
29	2	*e*	30 45			
29	6	*i*	47 09		*i*	47 27
29	10	*e*	04 10			
30	16	*e*	26 36			
30	16	*e*	32 42			
31	0	*e*	52 23		*e*	53 05
31	11	*i*	10 53		*e*	11 06
31	14	*e*	28 09			
April						
1	13	*i*	57 40		*i*	58 06
1	14	*e*	45 33		*e*	45 51
5	4	*e*	43 15			
5	14	*e*	41 17		*e*	41 48
5	18	*i*	16 06		*i*	16 30
5	19	*i*	00 52		*i*	01 13

		(P)			(S)	
April						
8	6h	*e*	09m24s		*i*	09m49s
8	6	*e*	48 22			
9	0	*e*	00 31		*e*	00 57
9	9	*i*	26 54		*i*	27 15
12	3	*e*	35 56		*e*	36 26
14	5	*i*	14 21	*C*	*i*	14 47
	Trace ampl.: 3 mm. 8 mm.					
15	4	*e*	45 13		*e*	45 39
16	0	*e*	16 54		*i*	16 57
16	5	*i*	24 21		*i*	24 23
17	9	*e*	13 55		*e*	14 29
17	9	*e*	51 28		*i*	51 58
17	12	*e*	34 52			
17	14	*i*	04 44			
17	19	*i*	57 57			
17	19	*i*	58 45			
18	4	*e*	49 52			
18	20	*i*	16 33			
20	5	*i*	43 03			
21	11	*e*	21 07		*e*	21 31
21	11	*i*	58 53	*D*	*i*	59 21
	Trace ampl.: 4 mm. 10 mm.					
22	9	*e*	16 53			
22	15	*e*	56 38		*e*	56 57
23	17	*e*	48 36			
23	22	*e*	46 35		*e*	47 02
24	3	*e*	04 41			
24	8	*i*	17 28	*D*	*i*	17 59
	Trace ampl.: 5 mm. 12 mm.					
24	21	*e*	22 48		*e*	23 08
25	9	*i*	32 58	*C*	*e*	33 24
	Trace ampl.: 5 mm. 9 mm.					
26	8	*e*	24 29		*e*	24 46
27	13	*e*	47 52		*e*	48 10
27	16	*e*	32 20		*e*	32 58
27	17	*e*	47 58		*e*	48 18
28	12	*e*	34 54		*e*	35 16
28	16	*e*	35 38			
28	16	*i*	37 39	*D*		
28	18	*i*	52 46	*D*	*e*	52 56
	Trace ampl.: 1 mm. 8 mm.					
29	17	*e*	10.2		*e*	10 32
30	20	*e*	25 49		*e*	26 20
30	21	*i*	26 23	*D*	*i*	26 47
	Trace ampl.: 3 mm. 7 mm.					
May						
1	17	*i*	36 25			
	Trace ampl.: 2 mm.					
2	13	*e*	43 20		*e*	43 50
2	23	*e*	40 21		*e*	40 52
3	5	*i*	41 56			
3	11	*e*	10 39			

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		(P)			(S)		
May							
3	13h	*e*	47m	12s	*e*	47m	57s
4	8	*e*	42	38	*e*	42	56
4	10	*i*	10	04 *C*	*i*	10	24
	Trace ampl.: 2 mm. 5 mm.						
4	11	*e*	52	18			
4	23	*e*	25	23	*e*	25	46
5	4	*e*	02	00	*e*	02	21
5	6	*e*	19	34	*e*	19	57
5	6	*e*	56	33	*i*	57	13
5	15	*e*	50	23			
5	19	*e*	33	22			
6	13	*e*	32	23			
7	0	*e*	19	48			
7	12	*e*	51	06	*e*	51	39
7	22	*e*	18	55	*e*	19	20
10	17	*i*	53	15 *C*	*e*	53	35
12	20	*e*	13	55	*e*	14	17
13	20	*e*	11	30	*e*	11	50
13	20	*e*	47	48	*e*	48	20
13	22	*e*	54	24	*e*	54	47
14	19	*e*	36	25			
15	13	*e*	58	44			
17	0	*e*	07	42			
17	12	*e*	10	21	*e*	10	46
17	14	*e*	18	02			
18	2	*e*	27	20	*e*	27	50
18	6	*e*	55	21			
20	17	*i*	35	52 *D*	*i*	36	13
21	5	*e*	30	11			
23	1	*e*	40	24	*e*	40	52
25	5	*i*	32	54	*i*	33	31
	Trace ampl.: 3 mm. 5 mm.						
25	5	*e*	35	50	*e*	36	18
25	10	*e*	57	37	*e*	57	50
25	23	*e*	30	26	*e*	30	55
31	4	*i*	16	54	*i*	17	22
31	21	*i*	01	14	*i*	01	50
June							
1	5	*e*	09	03	*e*	09	42
3	11	*e*	20	52	*e*	21	12

		(P)			(S)		
June							
3	14h	*e*	13m	58s	*e*	14m	27s
4	3	*i*	00	40 *C*	*e*	01	00
5	4	*e*	55	46	*i*!	56	05
5	20	*i*	15	33 *C*	*e*	15	47
8	17	*e*	11	44	*e*	12	11
10	23	*e*	08	08			
10	23	*e*	30	06	*e*	30	38
11	4	*e*	45	51			
13	3	*e*	50	58			
13	5	*i*	48	05	*i*	48	25
14	13	*e*	25	41	*e*	25	51
14	16	*e*	15	31	*e*	15	50
14	18	*e*	04	48			
15	3	*i*	48	14			
15	18	*i*	16	17	*i*	16	41
15	22	*e*	43	30			
16	2	*e*	03	02			
16	20	*e*	56	38			
16	21	*e*	43	44	*e*	44	12
17	3	*i*	33	03	*i*	33	19
	Trace ampl.: 3 mm. 12 mm.						
17	7	*e*	57	12	*e*	57	21
17	7				*e*	58	05
17	10	*e*	18	10	*e*	18	44
17	10	*e*	25	43	*e*	26	09
18	4	*i*	08	12	*i*	08	32
18	12	*e*	01	40			
19	11	*e*	58	34			
19	12	*e*	01	33			
20	10	*i*	35	33 *C*	*e*	35	49
20	15	*e*	21	25	*e*	21	45
24	7	*e*	26	17			
25	4	*e*	00	34			
25	6	*e*	49	07			
27	4	*e*	22	27			
27	7	*i*	45	06	*i*	45	30
27	13	*e*	04	35	*e*	04	54
28	10	*i*	33	35 *D*	*i*	33	38
	Trace ampl.: 3 mm. 13 mm.						
29	16	*e*	14	37			
29	20	*e*	32	40	*e*	33	00
29	23	*e*	29	29	*e*	29	48