

## GEODÆTISK INSTITUT

Proviantsgården · Copenhagen · Denmark

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## Bulletin of the seismological station

## SCORESBYSUND

 $\varphi = 70^{\circ}29' \text{ N.}$      $\lambda = 21^{\circ}57' \text{ W.}$      $h = 69 \text{ m.}$ 

Lithologic foundation: gneiss

## Instruments

Galitzin-Wilip. N and E.  $T_p = T_g = 12 \text{ sec.}$   $\mu^2 = 0,$   $\frac{Ak}{\pi l} = 300$  or  $V_{\max}$  abt. 1000.Galitzin-Wilip. Z.  $T_p = 9 \text{ sec.}$   $T_g = 10 \text{ sec.}$   $\mu^2 = 0,$   $\frac{Ak}{\pi l} = 200$  or  $V_{\max}$  abt. 600.Grenet Z'.  $T_p = 1 \text{ sec.}$   $T_g = 1/4 \text{ sec.}$   $V_{\max}$  abt. 30000.

## Seismological Readings

Phases are indicated by the symbols used in ISS. Times are given in GMT. Positions of epicenters are most often those given by BCIS or USCGS. C means compression and D dilatation.

## Relocation of the station

During the summer 1963 World Wide Standardized Seismographs were installed in a new building located 8 km further south. This installation continues the seismological service in the Scoresbysund area. In order to avoid misunderstanding the name was changed to KAP TOBIN. Consequently this bulletin is the last one named Scoresbysund.

January

1	IP zZNE	23 47 51	C	7	IP z	09 18 03	
	I z	53 02			IS z	18 11	
	IS E	54 52			D = 1		
	eScS NE	57 36			Local shock		
	L ZNE	00 04		7	eP z	12 02 32	
	D = 49	h = 80 km			L NE	48	
	Alaska Peninsula				D = 106	h = 42 km	
3	IP z	03 17 02			Molucca Passage		
	ePS E	27 36		8	IP z	15 58 18	C
	D = 78	h = 51 km			D = 76	h = 158 km	
	Ryukyu Islands				Kyushu, Japan		
4	eP z	00 35 02		9	IP z	03 26 08	D
	I z	35 12			IP z	26 53	
	D = 69	h = 33 km			D = 90	h = 187 km	
	Mid-Atlantic Ridge				Mariana Islands		
4	eP z	05 54 42	D	11	ePKP z	12 31 07	
	eS E	06 04 49			D = 122	h = 33 km	
	ePS NE	05 22			Off coast of southern Chile		
	D = 79	h = 33 km		11	IPKP z	17 24 40	
	South of Honshu, Japan				D = 137	h = 221 km	
4	eP z	09 24 37			Kermadec Islands		
	Local shock			11	eP z	22 43 41	
5	IP z	00 00 36	D		Local shock		
	D = 63	h = 56 km		12	eP z	03 52 03	
	Kurile Islands				D = 74	h = 84 km	
5	IP z	07 15 48	C		Colombia		
	D = 63	h = 60 km		12	eP z	06 29 52	
	Kurile Islands				D = 57	h = 129 km	
5	eP z	11 41 54			Hindu Kush region		
	Local shock			12	IP z	08 47 32	
5	IP z	17 55 10	D		IS z	47 40	
	epP z	57 10			D = 1		
	D = 84	h = 546 km			Local shock		
	Western Brazil			12	IP z	08 50 07	
6	eP z	06 29 46			IS z	50 15	
	D = 82	h = 32 km			D = 1		
	Near coast of Ecuador				Local shock		
6	IP z	07 40 19	C	12	IP z	10 14 11	
	D = 62	h = 56 km			IS z	14 20	
	Kurile Islands				D = 1		
6	eP z	21 31 18			Local shock		
	D = 62	h = 22 km		14	ePKP z	11 38 56	
	Kurile Islands				ePKS z	42 17	
7	IP z	09 16 30			D = 130	h = 19 km	
	IS z	16 38			Loyalty Islands region		
	D = 1						
	Local shock						

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January

14	eP z	16 54 13	
	Local shock		
14	IP z	18 40 00	D
	D = 34	h = 117 km	
	Rumania		
15	eP z	01 29 06	
	I z	29 46	
	D = 2		
	Iceland region		
15	IP zZNE	01 32 52	
	IS ZNE	33 12	
	D = 2	h = 33 km	
	Iceland region		
15	eP z	02 09 05	
	D = 2		
	Iceland region		
15	eP z	02 18 27	
	D = 2		
	Iceland region		
15	eP z	02 31 52	
	D = 2		
	Iceland region		
15	eP z	03 00 14	
	D = 2		
	Iceland region		
15	IP zZNE	05 23 42	C
	IS NE	24 00	
	D = 2	h = 33 km	
	Jan Mayen Island region		
15	eP z	05 56 20	
	eS E	56 41	
	D = 2		
	Jan Mayen Island region		
15	eP z	15 12 02	
	D = 42	h = 87 km	
	Southern Greece		
15	eP z	16 47 36	
	eS z	47 49	
	D = 1		
	Jan Mayen Island region		
15	eP z	16 59 52	
	Local shock		
15	IPKP z	19 44 52	D
	IPKP z	46 51	
	D = 128	h = 547 km	
	West of Tonga Islands		

January

15	eP z	22 47 19	
	Local shock		
16	ePKP z	03 33 42	D
	D = 146	h = 33 km	
	South Pacific Cordillera		
16	IP z	11 52 32	
	I z	52 41	
	Local shock		
17	IP z	20 53 17	D
	ePP z	56 23	
	D = 81	h = 126 km	
	Southwestern Ryukyu Islands		
18	IP z	03 23 06	
	D = 75	h = 426 km	
	Near south coast of southern Honshu, Japan		
21	eP z	04 16 35	
	Local shock		
21	eP z	07 23 15	
	Local shock		
22	eP z	07 17 27	
	Local shock		
24	eP z	10 26 16	
	Local shock		
24	eP z	22 53 11	
	Local shock		
25	eP z	13 02 08	C
	D = 87	h = 190 km	
	Mariana Islands region		
26	eP z	03 59 11	
	D = 5	h = 33 km	
	Jan Mayen Island region		
27	eP z	01 19 12	
	D = 82	h = 29 km	
	Ryukyu Islands		
27	eP z	08 15 33	
	I z	16 17	
	Near shock		
27	eP z	11 55 53	
	D = 47	h = 80 km	
	Southern Alaska		

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## January

27 eP z 19 42 36 D  
 ePP z 45 22  
 eS N 50 19  
 e E 50 52  
 eScS NE 53 37  
 D = 46 h = 65 km  
 Eastern Caucasus

28 IP z 02 25 00 C  
 D = 90 h = 110 km  
 Peru

28 eP z 04 16 18  
 D = 66 h = 28 km  
 Hokkaido, Japan region

28 IP zZNE 13 09 59 C  
 i ZNE 10 20  
 e E 16 51  
 iS E 17 40  
 ePS N 17 49  
 iScS E 20 06  
 L ZNE 24  
 D = 53 h = 14 km  
 Alaska Peninsula

28 ePKP z 14 08 28  
 D = 128 h = 582 km  
 West of Tonga Islands

29 eP z 09 31 10 C  
 e N 31 21  
 eS E 39 13  
 L E 46  
 D = 60 h = 140 km  
 Kurile Islands

29 eP z 10 00 33  
 e z 00 48  
 Local shock

30 IP z 04 49 04 C  
 D 52 h = 13 km  
 Alaska Peninsula

30 ePKP zZ 10 29 04  
 ePKS zZ 32 49  
 eSKS N 36 14  
 ePKKP E 39 12  
 eSS E 47 59  
 e E 50 58  
 L ZNE 11 08  
 D = 126 h = 33 km  
 South Sandwich Islands region

31 eP zZN 05 18 51 C  
 ePP zZN 21 51  
 IPS NE 29 47  
 L NE 51  
 D = 80 h = 33 km  
 East China Sea

## January

31 eP z 11 36 38  
 D = 52 h = 33 km  
 Alaska Peninsula

31 IP z 15 14 50  
 D = 42 h = 53 km  
 Southern Greece

31 eP z 17 14 25  
 D = 46 h = 47  
 Caspian Sea

## February

3 eP z 13 03 26 D  
 D = 71 h = 27 km  
 Northern Colombia

3 eP z 14 27 50  
 iL z 30 14  
 D = 10 h = 33 km  
 Eastern Greenland

4 eP zZ 23 31 18  
 D = 60 h = 78 km  
 Kurile Islands

5 eP z 12 17 40  
 D = 53 h = 33 km  
 Fox Islands, Aleutian Islands

5 eP z 18 01 00  
 D = 70 h = 136 km  
 Near Coast of Oaxaca, Mexico

5 ePS E 21 08 45  
 eSS E 14 30  
 e N 14 57  
 L E 36  
 D = 115 h = 33 km  
 Near coast of Central Chile

6 ePP z 01 41 02  
 D = 115 h = 22 km  
 Near coast of Central Chile

6 eP z 03 39 05  
 D = 72 h = 118 km  
 Northern Colombia

6 eP z 18 26 32 C  
 eS N 34 20  
 D = 54 h = 36 km  
 Komandorsky Island region

9 eP z 04 04 26  
 D = 72 h = 20 km  
 Near south coast of Honshu, Japan

## February

9 IP z 08 09 52  
 D = 57 h = 81 km  
 Andreanof Islands, Aleutian Islands

9 IP z 16 15 50 D  
 I z 16 06  
 D = 66 h = 33 km  
 Kurile Islands region

10 eP z 15 09 32 D  
 D = 18 h = 33 km  
 North Atlantic Ocean

10 eP z 16 41 44  
 D = 26 h = 33 km  
 North Atlantic Ridge

10 eP z 21 46 24 D  
 D = 65 h = 105 km  
 Kurile Islands

12 IPKP z 23 25 24 C  
 I z 26 08  
 D = 126 h = 609 km  
 West of Tonga Islands

13 IP z 01 46 18 C  
 D = 75 h = 33 km  
 Arabian Sea

13 IP zZNE 09 02 19 C  
 IPP ZN 05 28  
 I ZN 08 49  
 eS N 12 29  
 IPS E 13 46  
 ISS E 17 53  
 L E 27  
 D = 82 h = 47 km  
 Taiwan region

13 eP z 09 42 51  
 D = 82 h = 77 km  
 Taiwan

13 ePKP z 18 32 46  
 ePP Z 34 16  
 ePS N 44 01  
 eSS E 50 34  
 L NE 19 12  
 D = 120 h = 30 km  
 Solomon Islands

13 eP z 20 07 25  
 D = 76 h = 33 km  
 Arabian Sea

## February

14 eP z 07 19 17  
 ePKP z 23 01  
 ePP Z 24 10  
 eS E 31 47  
 ePPS N 34 31  
 D = 114 h = 197 km  
 Banda Sea

14 eP z 13 25 26  
 D = 33 h = 23 km  
 Yugoslavia

14 ePKP z 22 26 40  
 IPP z 27 49  
 D = 114 h = 70 km  
 Near north coast of New Guinea

15 ePKP z 01 08 15  
 D = 137 h = 33 km  
 South of Kermadec Islands

15 eP z 02 33 24  
 Local shock

15 IP z 10 25 35 C  
 D = 37 h = 33 km  
 Greece-Albania border region

16 IP z 12 28 56 D  
 D = 57 h = 208 km  
 Hindu Kush region

18 IP z 14 34 44 D  
 D = 57 h = 216 km  
 Hindu Kush region

18 eP z 18 27 13  
 D = 13 h = 33 km  
 North Atlantic Ocean

18 eP z 19 06 15  
 D = 13 h = 33 km  
 North Atlantic Ocean

21 eP z 00 08 37  
 Local shock

21 IP z 02 45 04 D  
 D = 75 h = 167 km  
 South of Honshu, Japan

21 ePKP z 14 47 34  
 D = 127 h = 33 km  
 Tonga Islands

21 IP z 17 22 47 D  
 eS E 29 38  
 D = 45 h = 5 km  
 Near coast of Libya

## February

- 21 eP z 20 34 56  
D = 45 h = 5 km  
Near coast of Libya
- 22 iP zZ 07 15 31 C  
iS NE 19 57  
L E 23  
D = 23 h = 13 km  
North coast of Severnaya Zemlya
- 22 eP z 07 28 19  
D = 23 h = 33 km  
North of Severnaya Zemlya
- 22 eP z 14 20 03  
D = 37 h = 12 km  
Greece-Albania border region
- 22 eP z 21 24 11  
D = 60 h = 17 km  
Dominican Republic region
- 23 eP z 17 22 59  
D = 61 h = 28 km  
Kurile Islands region
- 24 iP z 13 45 10 C  
iPP z 47 42  
D = 69 h = 119 km  
Guatemala
- 24 eP z 22 43 31  
D = 46 h = 41 km  
North Atlantic Ridge
- 25 iP z 17 23 21 D  
i z 23 36  
D = 82 h = 52 km  
Southwestern Ryukyu Islands
- 26 eP z 20 28 50  
iPKP z 32 33  
iPP z 33 48  
iPPP N 36 23  
iSKKS N 40 27  
iS E 41 10  
iPS N 43 21  
iSS E 49 44  
L NE 21 10  
D = 117 h = 156 km  
East New Guinea region
- 26 iP z 20 43 48 D
- 26 iP z 20 52 54
- 27 ePP z 04 49 51  
D = 115 h = 57 km  
New Britain region

## February

- 27 iP z 11 13 47 C  
D = 92 h = 105 km  
Southern Peru
- 27 eP z 23 22 57  
i z 23 13  
Local shock
- 27 eP z 23 45 27 D  
D = 52 h = 10 km  
Alaska Peninsula
- March
- 1 eP z 10 56 53  
D = 68 h = 41 km  
Hokkaido, Japan region
- 1 eP z 19 25 18  
D = 70 h = 33 km  
Central Mid-Atlantic Ridge
- 2 eP z 09 36 26 D  
D = 65 h = 48 km  
Kurile Islands
- 3 eP z 03 14 17  
eS z 15 02  
D = 4  
Near shock
- 3 iP z 23 10 54 C  
D = 78 h = 490 km  
Southeast of Shikoku, Japan
- 4 eP zZ 07 44 54 D  
eS E 47 17  
iL E 49 03  
D = 13 h = 33 km  
North of Svalbard
- 4 eP z 13 51 01  
D = 82 h = 33 km  
Taiwan
- 4 iP z 15 18 20 C  
D = 44 h = 7 km  
Crete
- 4 eP z 15 55 33  
eS NE 16 06 03  
L E 24  
D = 84 h = 23 km  
Near coast of northern Peru
- 5 eP z 07 17 34  
D = 84 h = 22 km  
Near coast of northern Peru
- 6 iP z 04 49 46 C  
D = 79 h = 29 km  
East of Ryukyu Islands

## March

- 7 ePP z 05 41 37  
iSS N 57 56  
L N 06 11  
D = 115 h = 33 km  
Easter Island region
- 7 ePKP z 12 35 18 C  
L N 13 18  
D = 120 h = 33 km  
Off coast of southern Chile
- 7 eP z 13 52 55  
D = 58 h = 40 km  
Rat Islands, Aleutian Islands
- 7 eP z 21 59 05  
D = 58 h = 102 km  
Afghanistan - USSR border region
- 8 iP z 00 18 48 D  
D = 20 h = 33 km  
Queen Elizabeth Islands
- 8 ePP z 03 05 39  
D = 128 h = 5 km  
New Hebrides Islands
- 8 eP z 15 17 12 C  
D = 70 h = 33 km  
Central Mid-Atlantic Ridge
- 9 eP z 02 28 36  
D = 68 h = 11 km  
Arabian Sea
- 9 iP z 06 54 55 D  
D = 64 h = 33 km  
Sakhalin Island
- 9 iPKP z 23 01 58  
D = 130 h = 534 km  
West of Tonga Islands
- 10 iP z 01 34 50 D  
D = 49 h = 29 km  
Kodiak Island region
- 10 iPKP z 01 38 21 D  
D = 124 h = 132 km  
New Hebrides Islands
- 10 eP z 03 05 53  
D = 82 h = 33 km  
Taiwan region

## March

- 11 iP z 07 35 13 C  
D = 43 h = 6 km  
Turkey
- 12 eP z 08 15 27  
D = 56 h = 65 km  
Near east coast of Kamchatka
- 12 eP z 15 19 36  
D = 6 h = 33 km  
Jan Mayen Island region
- 12 iP z 16 07 14  
D = 11 h = 7 km  
North of Svalbard
- 14 eP z 18 12 54  
D = 87 h = 53 km  
Luzon, Philippine Islands
- 14 eP z 18 41 08  
D = 63 h = 41 km  
Kurile Islands
- 15 eP z 00 29 27  
D = 98 h = 44 km  
Mindanao, Philippine Islands
- 15 eP z 05 55 32 C  
D = 51 h = 26 km  
North Atlantic Ridge
- 16 iP zZE 08 55 17 C  
iPP ZE 57 23  
iPPP ZE 58 57  
iS E 09 03 50  
L E 12  
iPKPPK 24 22  
D = 63 h = 46 km  
Kurile Islands region
- 16 eP z 14 54 18  
iS z 55 00  
D = 4  
Near shock
- 17 eP z 14 24 42  
D = 39 h = 33 km  
Greece - Albania border region
- 18 eP z 14 22 38  
D = 39  
Greece
- 19 eP z 04 55 05  
D = 11 h = 10 km  
Svalbard region
- 20 iPKP z 05 01 04  
i z 03 11  
D = 128 h = 690 km  
Fiji Islands region

March

20 iP z 07 14 49  
D = 63 h = 33 km  
Kurile Islands region

21 iP z 04 11 35 C  
D = 72 h = 38 km  
Near east coast of Honshu, Japan

22 eP z 13 05 47  
Local shock

22 eP z 16 09 38  
Local shock

24 iPKP z 02 25 55 C  
ePPS E 37 56  
L E 03 01  
D = 115 h = 12 km  
Sumba Island region

24 eP z 02 34 29  
D = 55 h = 55 km  
Andreanof Islands, Aleutian Islands

24 iP z 09 56 52 C  
D = 98 h = 68 km  
Mindanao, Philippine Islands

24 iP z 12 53 07 D  
eS N 13 00 34  
eSS N 04 24  
L NE 10  
D = 52 h = 10 km  
Western Iran

24 eP zZ 21 45 05 C  
i z 45 21  
L E 22 06  
D = 58 h = 47 km  
Andreanof Islands, Aleutian Islands

26 iPKP z 10 07 36  
iPP E 10 21  
iPKS NE 11 19  
ePPS E 22 43  
eSS E 28 48  
L ZNE 51  
D = 137 h = 48 km  
Kermadec Islands region

26 eP z 12 02 44  
Local shock

March

26 ePKP z 13 44 23 D  
ePP E 47 03  
ePKS N 47 53  
L NE 14 29  
D = 137 h = 40 km  
Kermadec Islands region

26 iP z 19 58 17 D  
i z 58 26  
D = 65 h = 131 km  
Kurile Islands

26 eP zZ 21 46 06 C  
iPcP z 46 23  
iScS N 56 13  
L NE 22 10  
D = 73 h = 16 km  
Southern Honshu, Japan

28 iP zZNE 00 16 52 D  
D = 4 h = 33 km  
Iceland region

28 iP z 00 41 24  
D = 4  
Iceland region

28 iP z 00 46 11  
Iceland region

28 iP z 00 49 59  
Iceland region

28 iP z 00 54 24  
Iceland region

28 iP z 00 56 18  
Iceland region

28 iP z 00 59 01  
Iceland region

28 iP zZ 01 00 43  
D = 4 h = 33 km  
Iceland region

28 iP z 01 29 39 D  
iS z 30 28  
D = 4 h = 33 km  
Iceland region

28 iP z 01 44 31  
iS z 45 20  
D = 4  
Iceland region

March

28 iP z 02 13 22  
D = 4  
Iceland region

28 iP z 02 58 14  
iS z 59 04  
D = 4  
Iceland region

28 iP z 10 44 57  
Iceland region

28 iPKP z 11 31 52  
D = 138 h = 31 km  
Kermadec Islands

28 ePKP z 23 48 29  
D = 138 h = 62 km  
Kermadec Islands region

29 iP z 02 19 34  
iS z 20 22  
D = 4  
Iceland region

29 eP z 03 16 45  
D = 40 h = 33 km  
Turkey

30 iPKP z 02 12 16 D  
ePP N 14 19  
eSKSP N 24 10  
e N 25 15  
D = 128 h = 156 km  
New Hebrides Islands

30 iP z 15 39 50  
Local shock

30 eP z 16 32 12  
Local shock

30 iP zZN 17 02 37 C  
eS E 11 22  
L NE 24  
D = 65 h = 61 km  
Kurile Islands

31 eP z 04 58 41 D  
iS N 05 09 18  
L NE 26  
D = 86 h = 31 km  
Near coast of northern Peru

March

31 ePKP zZ 05 50 09  
ePKS NE 53 47  
ePS Z 06 03 15  
L NE 38  
D = 137 h = 55 km  
Kermadec Islands region

31 ePKP z 09 26 40  
D = 137 h = 20 km  
Kermadec Islands region

31 iPKP z 19 42 14 D  
D = 138 h = 39 km  
Kermadec Islands

April

1 eP z 04 38 55 C  
D = 64 h = 258 km  
Hokkaido, Japan region

1 iP z 13 11 21 C  
Local shock

2 iP z 16 28 12 D  
iP zZ 28 52  
D = 55 h = 140 km  
Fox Islands, Aleutian Islands

3 iPKP z 15 07 28 D  
L NE 57  
D = 146 h = 33 km  
South Pacific Cordillera

3 eP z 16 02 48  
D = 43 h = 71 km  
Southern Alaska

5 iP z 21 40 52  
iS z 41 42  
D = 4  
Iceland region

6 iP z 11 27 08  
D = 42 h = 42 km  
Central Alaska

7 eP z 06 30 48  
D = 3  
Jan Mayen region

7 eP z 11 04 12  
D = 3 h = 58 km  
Jan Mayen region

7 eP z 11 16 48  
iS z 17 21  
iL N 17 32  
D = 3 h = 33 km  
Jan Mayen region

## April

7 IP z 15 37 07 D  
D = 54 h = 174 km  
Fox Islands, Aleutian Islands

7 eP ZE 22 54 30  
ISK NE 23 01 07  
L NE 27  
D = 106 h = 70 km  
Southern Sumatra

9 eP z 01 39 58 C  
D = 3 h = 33 km  
Jan Mayen region

9 IP z 01 42 53 C  
IS z 43 25  
D = 3 h = 33 km  
Jan Mayen region

9 IPKP z 02 20 25 D  
ipPKP z 22 21  
D = 126 h = 554  
Fiji Islands

12 IPKP z 09 01 24  
D = 147 h = 106 km  
North Island, New Zealand

12 IP z 19 50 35  
IS z 52 27  
D = 11 h = 20 km  
Greenland Sea

13 IP zZE 02 33 19 D  
ipP Z 33 52  
IPS N 44 34  
L NE 03 02  
D = 85 h = 125 km  
Northern Peru

14 IP z 19 10 31 C  
D = 79 h = 33 km  
South of Honshu, Japan

14 IP z 20 48 45 C  
D = 78 h = 115 km  
South of Honshu, Japan

15 IPKP z 23 58 27 C  
D = 124 h = 33 km  
Tonga Islands

## April

16 eP z 01 43 43  
IPKP z 47 10  
ISK E 54 31  
ISKKS N 54 53  
IPS E 57 48  
IPPS E 58 29  
L NE 02 19  
D = 108 h = 6 km  
Halmahera

16 eP z 02 09 23  
D = 108 h = 20 km  
Halmahera

16 eP z 10 15 45  
Local shock

16 IP z 18 57 44

17 IPKP z 02 30 28  
D = 127 h = 125 km  
South of Fiji Islands

17 ePKP z 18 43 42  
D = 130 h = 49 km  
South Sandwich Islands region

18 IPKP z 02 10 01  
D = 128 h = 531 km  
West of Tonga Islands

19 IP z 07 38 18 D  
D = 44 h = 9 km  
Crete

19 IP z 07 46 05 C  
IPcS NE 50 28  
IS N 54 55  
IPS E 55 00  
i E 55 35  
IScS N 56 05  
ISS N 59 10  
L NE 08 06  
D = 66 h = 33 km  
Tsinghai Province, China

19 ePKP z 16 36 59 C  
D = 134 h = 35 km  
South Sandwich Islands region

21 IP z 04 50 40 C  
L NE 05 30  
D = 82 h = 35 km  
Taiwan region

21 eP z 09 29 18  
D = 81 h = 37 km  
Ryukyu Islands

## April

21 IP z 21 14 15  
IS z 15 06  
D = 4  
Near shock

23 IP z 03 01 05 C  
D = 57 h = 33 km  
Mongolia

24 eP z 13 44 23  
D = 81 h = 10 km  
Ryukyu Islands

25 IP z 08 25 46  
D = 102 h = 550 km  
Celebes Sea

25 eP z 11 31 10  
D = 77 h = 67 km  
South of Honshu, Japan

25 ePKP z 18 08 49 C  
D = 130 h = 346 km  
West of Tonga Islands

27 IP z 03 43 33 D  
IS zE 44 18  
IL NE 44 42  
D = 4 h = 20 km  
Iceland region

29 eP z 20 46 41  
D = 68 h = 9 km  
Chiapas, Mexico

29 IP z 21 54 03 D  
L NE 22 15  
D = 58 h = 56 km  
Rat Islands, Aleutian Islands

30 IP z 03 35 52 D  
D = 58 h = 60 km  
Rat Islands, Aleutian Islands

30 IP z 07 17 40 C  
D = 58 h = 45 km  
Rat Islands, Aleutian Islands

30 IP z 17 30 55 D  
Local shock

30 eP z 17 34 30  
Local shock

30 eP z 18 55 58 D  
D = 88 h = 9 km  
Off coast of northern Peru

## May

1 IPKP z 10 22 10  
ipPKP z 22 48  
ipPP N 24 47  
L NE 57  
D = 128 h = 142 km  
New Hebrides Islands

4 eP z 06 05 43 D  
D = 57 h = 41 km  
Andreanof Islands, Aleutian Islands

8 eP z 08 59 58 D  
ipP z 09 00 25  
D = 52 h = 90 km  
Unimak Island region

8 IP zZ 10 33 34 C  
eS NE 43 02  
ePS E 43 23  
L NE 58  
D = 73 h = 45 km  
Near east coast of Honshu, Japan

10 eP zZ 23 34 58 C  
eS NE 45 04  
L NE 59  
D = 81 h = 30 km  
Peru - Ecuador border region

11 eP z 18 02 05  
D = 82 h = 33 km  
Taiwan region

12 ePKP z 10 04 05  
ePP z 07 53  
D = 166 h = 33 km  
Macquarie Island region

12 IP zZ 20 17 15 D  
eS NE 24 07  
IPS E 24 29  
L NE 33  
D = 48 h = 60 km  
Kodiak Island region

12 eP z 20 46 34 C  
D = 54 h = 69 km  
Near east coast of Kamchatka

17 IP zZ 04 17 11 C  
D = 64 h = 51 km  
Kurile Islands

17 IP z 06 22 11  
D = 90 h = 99 km  
Luzon, Philippine Islands

May

17 eP z 12 20 01  
 esP z 20 19  
 D = 68 h = 72 km  
 Hokkaido, Japan region

18 eP z 23 57 21  
 D = 60 h = 84 km  
 Kurile Islands

19 ePKP z 01 21 55  
 ePP ZNE 23 31  
 ePPP ZNE 26 16  
 eSKS N 29 11  
 ePS E 33 28  
 i NE 33 47  
 L NE 02 00  
 D = 122 h = 48 km  
 Near coast of southern Chile

19 iP zZNE 21 44 34 C  
 iPPP N 47 13  
 iS E 51 41  
 ISS NE 55 09  
 L ZNE 22 00  
 D = 49 h = 10  
 North Atlantic Ridge

20 iPKP zZ 11 57 22 D  
 iPP NE 12 01 00  
 L NE 40  
 D = 138 h = 68 km  
 Kermadec Islands region

22 iP zN 14 06 59 C  
 iS NE 15 16  
 iScS NE 16 49  
 L NE 26  
 ePKPPKP z 36 16  
 D = 61 h = 54 km  
 Kurile Islands

22 iP z 15 56 42  
 iPP z 56 58  
 D = 103 h = 82 km  
 Talau Islands

22 eP z 16 35 05  
 D = 55 h = 33 km  
 Aleutian Islands region

23 eP z 15 25 47  
 D = 100 h = 124 km  
 Mindanao, Philippine Islands

25 iP z 08 51 54 C  
 D = 66 h = 88 km  
 Hokkaido, Japan region

May

26 eP z 23 16 26  
 eS N 24 08  
 L NE 35  
 D = 55 h = 34 km  
 Kamchatka

27 eP z 04 08 11 D  
 eS N 15 59  
 D = 55 h = 49 km  
 Kamchatka

28 iP z 21 14 20 C  
 D = 62 h = 166 km  
 Kurile Islands

29 eP z 04 58 52 C  
 D = 47 h = 85 km  
 Kodiak Island region

29 eP z 05 59 43

29 eP z 08 45 21  
 ePP z 47 27  
 D = 62 h = 52 km  
 Southern Iran

29 iPKP z 08 45 38 C  
 iPPKP z 47 54  
 D = 125 h = 516 km  
 West of Tonga Islands

June

1 iP z 10 59 36 D  
 D = 57 h = 100 km  
 Afghanistan - USSR border region

2 ePKP z 21 23 35 D  
 D = 129 h = 33 km  
 Southwestern Atlantic Ocean

3 eP z 07 47 37 D  
 eS N 57 11  
 L NE 08 14  
 D = 74 h = 21 km  
 Near south coast of Honshu, Japan

4 iP z 10 41 24  
 Local shock

4 iP z 19 34 47 D  
 D = 90 h = 96 km  
 Mariana Islands

4 ePP NE 21 23 32  
 eSKS E 29 46  
 L NE 57  
 D = 108 h = 33 km  
 Halmahera

June

4 iP z 22 18 53 C  
 D = 38 h = 34 km  
 Greece

6 iP zZN 05 31 33 C  
 i z 31 45  
 IPP ZN 34 53  
 ISKS NE 42 00  
 L NE 06 01  
 D = 86 h = 33 km  
 Philippine Islands region

7 iP z 16 02 42 D  
 iSKS N 13 15  
 L NE 34  
 D = 87 h = 66 km  
 Luzon, Philippine Islands

7 iP z 19 42 40 D  
 eS N 52 48  
 ISS N 57 35  
 L NE 20 08  
 D = 80 h = 33 km  
 Off coast of Mexico

10 ePKP z 06 59 04  
 iSKKS N 07 10 35  
 D = 163 h = 19 km  
 West of Macquarie Island

11 iP z 03 35 21  
 D = 56 h = 44 km  
 Afghanistan - USSR border region

11 iP z 13 16 23  
 D = 42 h = 36 km  
 Central Alaska

17 iP z 18 40 10 C  
 iPcP NE 42 02  
 L NE 54  
 D = 43 h = 28 km  
 Southwestern Alaska

17 iPKP z 18 50 59 D  
 i NE 54 52  
 ISKS ZN 58 27  
 iPPP E 19 00 00  
 L NE 51  
 D = 170 h = 33 km  
 South Pacific Cordillera

18 iP z 04 14 33 C  
 D = 78 h = 53 km  
 Ryukyu Islands

June

19 iP z 09 22 52  
 iPP z 23 05  
 IPP NE 27 08  
 ISKS N 33 30  
 IS N 34 35  
 L NE 58  
 D = 102 h = 83 km  
 Taluad Islands region

19 iP zZ 10 59 00 C  
 D = 74 h = 51 km  
 India - East Pakistan border region

19 eP z 23 13 45  
 eS N 23 43  
 D = 78 h = 62 km  
 South of Honshu, Japan

21 iP z 15 38 04 C  
 D = 74 h = 53 km  
 India - East Pakistan border region

24 iP zZNE 04 34 55 C  
 IPP ZNE 36 52  
 IS ZNE 41 37  
 iScS E 44 53  
 L NE 48  
 D = 46 h = 52 km  
 Kenai Peninsula, Alaska

24 iP zZ 16 26 49  
 D = 56 h = 36 km  
 Fox Islands, Aleutian Islands

26 eP z 17 54 13  
 eS N 18 03 44  
 D = 74 h = 34 km  
 South of Panama

28 eP z 15 16 09  
 D = 4  
 North of Iceland

28 eP z 16 02 29  
 D = 4  
 North of Iceland

28 iP zN 22 06 06 C  
 iS NE 14 36  
 L NE 24  
 D = 63 h = 12 km  
 Kurile Islands

28 iP z 22 35 32 C  
 D = 63 h = 47 km  
 Kurile Islands

June

28 IP z 23 07 34 C  
D = 63 h = 11 km  
Kurile Islands

29 IP z 00 04 23 C  
D = 63 h = 33 km  
Kurile Islands

29 eP z 02 32 14  
D = 63 h = 30 km  
Kurile Islands

29 eP z 04 17 36  
D = 63 h = 80 km  
Kurile Islands

29 eP z 14 31 21  
D = 63 h = 33 km  
Kurile Islands

July

4 IPKP zZ 11 17 11 D  
IPPP ZNE 19 40  
IPPP zZ 20 24  
IPKS NE 20 43  
I N 26 33  
ISS E 37 14  
D = 134 h = 158 km  
Tonga Islands region

4 IP zZ 23 09 22 D  
eSKS N 19 54  
D = 89 h = 33 km  
St. Helena Island region

5 eP zZ 06 01 09  
eSKS NE 11 34  
eS NE 11 57  
D = 90 h = 55 km  
Peru

7 IP z 19 30 00 C  
D = 53 h = 33 km  
Central Utah

8 eP z 11 16 31 D  
D = 72 h = 33 km  
Mid-Atlantic Ocean

9 IP z 04 31 59 D  
D = 70 h = 33 km  
Mexico - Guatemala border

9 IP zZE 09 35 58 C  
IS E 45 24  
L ZNE 59  
D = 73 h = 31 km  
Costa Rica - Panama border

July

10 IP zN 05 33 27  
eS NE 41 59  
IScS E 43 24  
L NE 53  
D = 63 h = 33 km  
Kurile Islands region

10 IP z 07 54 36  
I z 54 44  
Local shock

10 IP z 09 59 26 C  
D = 59 h = 37 km  
North Atlantic Ocean

10 eP z 14 04 50  
D = 63 h = 33 km  
Kurile Islands region

11 IP z 11 44 12 D  
I z 44 20  
Local shock

11 IP z 14 46 35  
I z 46 43  
Local shock

12 eP z 15 38 36  
eS N 47 06  
D = 63 h = 33 km  
Kurile Islands region

13 eP z 08 34 07 C  
D = 57 h = 44 km  
Near west coast of Iran

13 eP z 14 09 07  
D = 65 h = 33 km  
Kurile Islands

13 eP z 14 18 43  
D = 82 h = 33 km  
Ryukyu Islands

14 eP NE 05 52 24  
eS NE 06 01 02  
L NE 13  
D = 65 h = 24 km  
Near coast of Venezuela

14 eP z 11 01 22  
D = 57 h = 120 km  
Hindu Kush

14 ePKP z 17 26 00 C  
D = 148 h = 189 km  
North Island, New Zealand

July

14 eP z 17 28 54  
D = 67  
Red Sea

15 IP z 08 11 34 D  
Local shock

16 IP zZ 18 35 03 C  
IPPP ZE 36 43  
IPcP E 37 03  
IS NE 41 25  
eSSS E 44 25  
L E 47  
D = 41 h = 33 km  
Georgia, S.S.R.

17 eP 12 04 52  
D = 41 h = 33 km  
Georgia, S.S.R.

18 ePKP z 05 17 17 C  
ePKS NE 20 41  
L E 06 00  
D = 131 h = 33 km  
South Sandwich Islands region

19 IP zZ 05 51 48  
L NE 06 01  
D = 31 h = 33 km  
Ligurian Sea

19 IP z 05 52 31 C  
eS E 57 40  
D = 31 h = 33 km  
Ligurian Sea

19 eP z 09 12 09 D  
D = 73 h = 70 km  
Near east coast of Honshu, Japan

20 IP z 02 23 59 C  
D = 62 h = 108 km  
Kurile Islands

20 ePKP1z 06 56 14  
ePKP2z 57 29  
D = 165 h = 33 km  
Macquarie Island region

20 IP z 15 09 32 C  
eS N 10 37  
D = 6 h = 49 km  
Jan Mayen Island region

21 IP z 06 13 23  
D = 72 h = 33 km  
Arabian Sea

July

21 IP z 14 58 41 D  
D = 97 h = 54 km  
Negros, Philippine Islands

24 IP z 11 44 35 C  
eS E 54 53  
L NE 12 13  
D = 82 h = 33 km  
Near east coast of Taiwan

25 IP z 07 15 26 D  
D = 72 h = 152 km  
Northern Colombia

26 IP zZN 04 24 17 C  
IPPP ZNE 25 39  
IS E 29 56  
L NE 34  
D = 36 h = 5 km  
Skopje, Yugoslavia

28 eP z 13 26 59  
L ZNE 28  
D = 7 h = 33 km  
Jan Mayen Island region

28 IP z 19 02 03 C  
D = 63 h = 33 km  
Kurile Islands region

29 IP z 12 45 49 C  
D = 11 h = 33 km  
Svalbard region

29 ePKP zZ 20 33 33  
eN 39 36  
L NE 21 20  
D = 137 h = 39 km  
Kermadec Islands

29 ePKP z 20 35 58  
D = 137 h = 33 km  
Kermadec Islands

30 ePP N 06 08 00  
L NE 53  
D = 137 h = 33 km  
Kermadec Islands

30 IP z 07 02 15 D  
D = 58 h = 33 km  
Kamchatka

30 ePKP z 17 11 13 D  
ePS N 22 58  
L N 50  
D = 126 h = 33 km  
South Sandwich Islands



## August

- 2 eP z 09 11 00  
L NE 13  
D = 16 h = 41 km  
North Atlantic Ocean
- 2 iP z 09 17 29  
D = 16 h = 33 km  
North Atlantic Ocean
- 3 iP zZ 10 32 06 C  
iS E 40 44  
iScS E 41 58  
ISS E 44 56  
L ZE 48  
iPKPPK z 11 01 11  
D = 64 h = 33 km  
Mid-Atlantic Ocean
- 3 eP z 10 44 57  
D = 65 h = 33 km  
Mid-Atlantic Ocean
- 5 iPKP z 00 12 16 D  
D = 125 h = 515 km  
Fiji Islands region
- 6 eP zN 13 39 59  
ePP z 40 07  
eS E 43 01  
L NE 44  
D = 15 h = 33 km  
North Atlantic Ocean
- 7 eP z 04 43 15  
D = 55 h = 33 km  
Sakhalin Island, USSR
- 8 iP zZN 02 24 27 C  
iS NE 32 12  
L NE 42  
D = 56 h = 33 km  
Fox Islands, Aleutian Islands
- 8 ePP N 11 35 52  
ePS N 45 39  
L NE 12 13  
D = 115 h = 48 km  
New Britain
- 8 iP z 14 06 01  
D = 90 h = 423 km  
Mariana Islands region
- 9 eP z 06 11 48  
L NE 22  
D = 32 h = 33 km  
Northern Italy
- 9 ePKP z 14 55 37  
ePP z 57 19  
L NE 15 37  
D = 122 h = 33 km  
Fiji Islands region

## August

- 10 eP z 04 37 10  
D = 58 h = 46 km  
Southern Iran
- 10 ePKP z 18 27 03 C  
D = 146 h = 33 km  
South Pacific Ocean
- 11 iP z 07 48 30 C  
D = 70 h = 45 km  
Near east coast of northern Honshu, Japan
- 13 eP z 03 35 45  
D = 51 h = 33 km  
Kodiak Island region
- 13 eP z 13 30 31  
D = 10 h = 33 km  
Svalbard region
- 15 iP zNE 06 22 50 C  
eS NE 32 07  
ePS E 32 32  
D = 71 h = 59 km  
Near east coast of Honshu, Japan
- 15 eP zE 17 37 09  
epP ZE 39 35  
ePP Z 41 06  
eSKS N 47 00  
D = 90 h = 543 km  
Peru - Bolivia border
- 16 eP z 23 18 51  
D = 83 h = 33 km  
South Atlantic Ocean
- 16 iPKP z 23 39 27 C  
D = 153 h = 33 km  
South of Australia
- 17 iP zN 11 24 34 C  
eS E 34 21  
ePS NE 35 08  
L NE 50  
D = 77 h = 33 km  
Ryukyu Islands region
- 18 iP z 07 21 06  
D = 73 h = 153 km  
Central Honshu, Japan
- 18 iP z 18 53 08 C  
eS N 19 01 13  
L NE 12  
D = 58 h = 33 km  
Andreanof Islands, Aleutian Islands
- 22 eP z 09 36 44  
L NE 55  
D = 56 h = 33 km  
Off coast of Oregon

## August

- 22 ePKP z 20 11 14  
eSKS N 18 15  
L NE 51  
D = 119 h = 33 km  
Solomon Islands
- 23 eP z 13 19 13  
D = 57 h = 33 km  
Off east coast of Kamchatka
- 25 iPKP z 12 36 10 D  
iPP zZ 38 06  
isPP ZN 41 04  
iPS N 48 11  
ISS E 54 21  
isSS NE 57 48  
L NE 13 18  
D = 125 h = 565 km  
Fiji Islands region
- 28 eP z 08 47 07  
L NE 48  
D = 5  
Jan Mayen Island
- 29 iP zZNE 09 03 20 C  
i z 03 50  
iS NE 11 11  
iPS E 11 29  
ISS E 15 31  
L NE 21  
D = 55 h = 31 km  
Sinkiang Province, China
- 29 iP zZNE 15 43 17 D  
iPP ZE 46 32  
iSKS E 53 45  
iS NE 53 55  
ISS E 59 56  
L NE 16 11  
D = 87 h = 23 km  
Off coast of Peru
- 29 eP z 22 32 51  
Local shock

## September

- 2 eP z 01 44 43  
D = 61 h = 44 km  
Northern India
- 2 iP z 11 54 33 D  
D = 64 h = 33 km  
Kurile Islands

## September

- 2 eP z 23 55 33  
D = 64 h = 33 km  
Kurile Islands
- 3 eP z 05 40 14  
D = 64 h = 33 km  
Kurile Islands
- 4 eP z 05 13 59  
ePP NE 15 24  
eS NE 19 54  
L NE 25  
D = 38 h = 38 km  
Near coast of Algeria
- 4 iP zZNE 13 35 53 C  
iS NE 38 44  
iL E 39 38  
D = 16 h = 33 km  
Baffin Island region
- 4 iP z 21 24 07  
iS z 26 57  
D = 16 h = 33 km  
Baffin Island region
- 4 iP z 21 44 56  
D = 16 h = 33 km  
Baffin Island region
- 6 eP z 01 49 59  
iS z 52 51  
D = 16 h = 33 km  
Baffin Island region
- 6 iP z 06 15 13 C  
L N 42  
D = 72 h = 33 km  
Sea of Japan
- 7 iP z 07 24 14  
D = 64 h = 33 km  
Kurile Islands
- 7 iP z 12 53 32 C  
D = 55 h = 110 km  
Kamchatka
- 8 iPKP z 20 08 40  
ipPKP z 11 10  
iPP z 11 17  
iPKS N 12 10  
iSKS N 15 12  
ISS E 27 57  
D = 131 h = 550 km  
Fiji Islands region

## September

9 ePP N 03 05 03  
ePS NE 14 57  
L NE 43  
D = 113 h = 34 km  
New Britain

12 iP z 08 27 15 C  
D = 46 h = 55 km  
Cyprus

12 iP z 17 09 46 D  
D = 57 h = 0 km  
Nevada

15 iPKP z 01 05 46  
iPP ZN 07 08  
iSKS N 14 01  
iPS N 17 13  
L NE 41  
D = 119 h = 43 km  
Santa Cruz Islands

17 iPKP z 19 39 03 D  
iPP N 40 25  
iSKS N 47 40  
iPS E 50 02  
i NE 52 40  
iSS NE 56 26  
L NE 20 15  
D = 119 h = 17 km  
Santa Cruz Islands

18 iP z 17 05 42 C  
iS NE 11 38  
i N 15 03  
L NE 16  
D = 39 h = 33 km  
Turkey

20 eP z 03 06 00  
eS N 07 44  
L NE 08 00  
D = 10 h = 33 km  
Svalbard region

22 ePKP z 19 41 03  
D = 128 h = 24 km  
Tonga Islands region

23 iP z 09 15 16 C  
L NE 51  
D = 94 h = 33 km  
Northern Rhodesia

24 eP z 02 18 13 C  
D = 39 h = 33 km  
Turkey

## September

24 iP z 16 43 05 C  
eSKS NE 53 33  
iS NE 53 53  
iPS NE 54 49  
eSS NE 17 00 06  
L NE 11  
D = 89 h = 80 km  
Near coast of Peru

29 iP z 10 49 19 D  
D = 57 h = 214 km  
Hindu Kush

29 iP z 22 24 16 C  
D = 41 h = 47 km  
Ionian Sea

## October

3 iP z 23 36 21 D  
iS E 46 11  
iPS E 46 23  
L NE 00 01  
D = 76 h = 33 km  
Kyushu, Japan

5 eP z 15 09 07  
D = 71 h = 33 km  
French Somaliland

12 eP z 02 50 31  
D = 16  
Baffin Island

12 iP z 11 37 36 C  
iS N 46 22  
iPS N 46 34  
L NE 56  
iPKPPK z 12 06 35  
D = 65 h = 40 km  
Kurile Islands

12 eP z 13 17 46  
D = 65 h = 50 km  
Kurile Islands

13 eP z 05 28 30  
epP z 28 38  
D = 65 h = 60 km  
Kurile Islands

13 eP z 05 47 15 C  
D = 65  
Kurile Islands

13 eP z 05 51 37  
D = 65  
Kurile Islands

## October

13 eP z 06 16 02  
D = 64 h = 55 km  
Kurile Islands

13 iP z 06 19 34  
D = 64 h = 60 km  
Kurile Islands

13 iP z 06 57 24 D  
D = 64 h = 55 km  
Kurile Islands

13 eP z 06 58 59 D  
D = 64 h = 55 km  
Kurile Islands

13 iP z 07 13 58 D  
D = 64 h = 50 km  
Kurile Islands

13 eP z 07 29 49  
D = 65 h = 40 km  
Kurile Islands

13 iP z 07 47 22 C

13 eP z 08 22 08  
D = 65 h = 60 km  
Kurile Islands

13 eP z 12 40 10  
D = 65 h = 30 km  
Kurile Islands

13 iP z 12 52 52  
D = 65 h = 55 km  
Kurile Islands

13 iP z 13 08 57  
ipP z 09 11  
D = 65 h = 50 km  
Kurile Islands

13 iP z 14 05 13 C  
D = 65 h = 50 km  
Kurile Islands

13 iP z 16 10 26 C  
D = 65 h = 35 km  
Kurile Islands

13 iP z 16 39 34 C  
D = 64 h = 40 km  
Kurile Islands

## October

13 iP z 17 36 35 D  
D = 65 h = 45 km  
Kurile Islands

13 eP z 18 25 33 C  
D = 65 h = 45 km  
Kurile Islands

13 iP z 19 36 37 C  
D = 64 h = 30 km  
Kurile Islands

13 iP z 19 38 10 C  
D = 64 h = 45 km  
Kurile Islands

13 iP z 20 38 12  
D = 64 h = 30 km  
Kurile Islands

13 iP z 22 05 38  
ipP z 05 46  
D = 65 h = 50 km  
Kurile Islands

13 eP z 22 13 34  
D = 65 h = 45 km  
Kurile Islands

13 eP z 23 35 37  
D = 65 h = 50 km  
Kurile Islands

14 eP z 00 03 03  
iPcP z 03 30  
iS NE 11 50  
L NE 24  
D = 65 h = 50 km  
Kurile Islands

14 eP z 03 41 40 D  
D = 64 h = 25 km  
Kurile Islands

14 eP z 04 16 37  
D = 65 h = 45 km  
Kurile Islands

14 iP z 04 21 52 C  
ipP z 22 04  
D = 65 h = 50 km  
Kurile Islands

14 iP z 04 23 40 D  
ipP z 23 52  
D = 65 h = 40 km  
Kurile Islands

October

14 IP z 05 34 50  
IPcP z 35 16  
D = 65 h = 55 km  
Kurile Islands

14 IP z 06 35 42  
D = 54 h = 80 km  
Fox Islands, Aleutian Islands

14 IP z 07 26 36  
D = 65 h = 45 km  
Kurile Islands

14 eP z 08 05 10  
ipP z 05 25  
D = 65 h = 55 km  
Kurile Islands

14 IP z 13 32 21 D  
ipP z 32 35  
ePKPPKP z 14 00 58  
D = 65 h = 60 km  
Kurile Islands

14 IP z 18 00 47 C  
D = 65 h = 60 km  
Kurile Islands

15 IP z 09 37 32 D  
Near shock

15 IP z 10 00 22  
D = 4 h = 33 km  
North of Iceland

15 IP z 13 02 39  
Near shock

17 IP z 23 35 14  
L NE 53  
D = 65 h = 60 km  
Kurile Islands

18 IP z 00 05 35  
D = 65 h = 45 km  
Kurile Islands

18 eP z 04 12 01  
D = 65 h = 60 km  
Kurile Islands

18 eP z 06 30 58  
D = 65 h = 60 km  
Kurile Islands

18 eP z 09 04 09  
ipP z 04 23  
D = 65 h = 60 km  
Kurile Islands

October

19 eP z 02 29 02  
D = 63 h = 45 km  
Kurile Islands

19 IP z 03 44 47 C  
D = 63 h = 33 km  
Kurile Islands

19 IP z 16 25 55 C  
ipP z 26 07  
D = 65 h = 120 km  
Kurile Islands

20 IP z 01 03 49 C  
eS N 12 32  
L NE 24  
D = 65 h = 25 km  
Kurile Islands

20 IP z 09 21 23  
D = 65 h = 40 km  
Kurile Islands

20 IP z 12 02 57 D  
D = 65 h = 45 km  
Kurile Islands

21 IP z 13 19 40 C  
ipP z 19 53  
D = 65 h = 45 km  
Kurile Islands

21 IP z 15 48 55 D  
D = 65 h = 55 km  
Kurile Islands

22 IP z 03 27 52 D  
L E 50  
D = 65 h = 45 km  
Kurile Islands

23 IP z 09 58 10 D  
D = 68 h = 50 km  
East of Honshu, Japan

26 eP z 04 06 17  
epP z 06 29  
L N 30  
D = 65 h = 55 km  
Kurile Islands

26 eP z 06 10 20  
D = 65 h = 55 km  
Kurile Islands

26 eP z 11 32 25  
D = 65 h = 55 km  
Kurile Islands

October

26 IP z 11 42 30  
D = 65 h = 55 km  
Kurile Islands

27 IP z 20 16 15 C  
D = 65 h = 50 km  
Kurile Islands

28 eP z 12 13 04  
eS N 20 56  
L N 33  
D = 57 h = 33 km  
Off east coast of Kamchatka

30 IP z 01 30 01 C  
D = 84 h = 20 km  
Northern Peru

31 IPKP z 03 36 52 C  
L N 04 18  
D = 129 h = 33 km  
Tonga Islands

November

1 eP z 22 51 57  
D = 64 h = 60 km  
Kurile Islands

3 IP z 03 22 34 C  
IS N 32 51  
L N 47  
D = 82 h = 33 km  
Peru - Ecuador border region

3 eP z 15 44 36  
Local shock

4 eP z 01 31 53 C  
IPKP z 35 44  
IPP N 36 37  
D = 114 h = 70 km  
Banda Sea

4 IPKP z 01 33 15  
D = 125 h = 154 km  
New Hebrides Islands

6 ePS N 02 42 01  
L NE 03 09  
D = 112 h = 33 km  
West Guinea

6 eP z 09 35 19  
D = 64 h = 33 km  
Kurile Islands

November

7 eP z 03 35 37  
D = 65 h = 40 km  
Kurile Islands

7 eP z 09 33 44  
i z 33 49  
D = 65 h = 50 km  
Kurile Islands region

8 eP z 06 06 43  
Local shock

8 IP z 08 18 44 D  
D = 65 h = 40 km  
Kurile Islands

9 eP z 02 50 17  
D = 15 h = 33 km  
North Atlantic Ocean

9 IP z 09 01 53  
D = 65 h = 33 km  
Kurile Islands

9 eP zZ 21 27 11  
ipP zN 29 20  
IsP Z 30 26  
ISKS N 36 45  
I Z 38 10  
IPKPPKPz 53 18  
D = 86 h = 600 km  
Peru - Brazil border region

10 IP zZ 01 12 20 D  
ipP z 14 24  
IS N 22 03  
ISP N 23 10  
i z 29 44  
D = 86 h = 600 km  
Peru - Brazil border region

10 eP zZ 17 28 25 D  
IS N 37 08  
L ZN 51  
D = 65 h = 40 km  
Kurile Islands

12 eP z 07 14 27  
ipP z 15 02  
D = 45 h = 69 km  
Eastern Mediterranean Sea

12 eP z 13 10 41  
D = 65 h = 50 km  
Kurile Islands

## November

14 ePKP z 04 54 44  
D = 125 h = 33 km  
New Hebrides Islands

15 eP z 21 17 14  
eS E 26 05  
L E 35  
ePKPPKP 46 02  
D = 65 h = 50 km  
Kurile Islands

16 iP z 02 40 46 D  
D = 65 h = 50 km  
Kurile Islands

16 eP z 19 24 33  
Local shock

17 eP z 00 58 32 D  
iS E 01 07 08  
L E 14  
D = 64 h = 33 km  
Central Mid-Atlantic Ridge

18 eP z 14 48 56 C  
L E 15 09  
D = 63 h = 14 km  
Gulf of California

19 eP z 03 04 12  
Local shock

19 iP z 11 11 34 C  
D = 65 h = 33 km  
Kurile Islands

21 iP z 21 11 31 D  
D = 69 h = 80 km  
Kurile Islands

22 iP z 14 56 33 C  
L E 19  
D = 65 h = 33 km  
Kurile Islands

22 eP z 21 49 29  
D = 43 h = 20 km  
Turkey

23 eP z 02 00 01  
D = 65 h = 45 km  
Kurile Islands

23 eP z 08 01 14  
D = 63 h = 14 km  
Gulf of California

## November

23 iP z 08 43 01  
D = 63 h = 14 km  
Baja California

23 iP z 19 11 10 D  
D = 65 h = 45 km  
Kurile Islands

23 iP z 22 36 34 D  
iS z 38 30  
i z 38 49  
D = 11 h = 33 km  
Svalbard region

24 iP z 11 17 43 D  
ipP z 19 00  
D = 81 h = 260 km  
Bonin Islands region

24 iP z 18 19 40 D  
D = 64 h = 40 km  
Kurile Islands

25 iP z 06 53 55  
D = 65 h = 50 km  
Kurile Islands

25 iP z 10 13 03 D  
D = 65 h = 55 km  
Kurile Islands

25 iP z 10 21 45 D  
D = 65 h = 45 km  
Kurile Islands

25 eP z 11 44 36  
Local shock

26 eP z 01 27 57  
Local shock

28 iP z 15 22 56 C  
D = 57 h = 33 km  
Near Islands, Aleutian Islands

30 eP z 17 43 12  
Local shock

## December

1 iP z 16 08 01 C  
D = 65 h = 40 km  
Kurile Islands region

1 iP z 16 27 04 D  
D = 78 h = 31 km  
Ryukyu Islands

## December

2 eP z 11 55 54  
D = 61 h = 50 km  
Kurile Islands

2 iP z 20 58 36 C  
i z 21 00 07  
iS N 00 36  
L N 01  
D = 11 h = 33 km  
North of Svalbard

3 iP z 03 55 13 C  
D = 65 h = 45 km  
Kurile Islands

3 eP z 05 19 51  
D = 64 h = 40 km  
Kurile Islands

3 eP z 08 49 36  
D = 64 h = 45 km  
Kurile Islands

4 iP z 01 38 08 C  
L N 02 01  
D = 64 h = 20 km  
Kurile Islands

4 iP z 02 53 59 D  
D = 63 h = 50 km  
Kurile Islands region

4 eP z 08 34 47 D  
D = 63 h = 33 km  
Kurile Islands

4 eP z 15 55 22  
D = 63 h = 40 km  
Kurile Islands

5 eP z 11 41 19  
D = 72 h = 33 km  
Panama - Colombia border region

6 eP z 05 27 52  
D = 65 h = 60 km  
Kurile Islands region

7 iPKP z 04 26 19  
ipPKP 28 29  
D = 130 h = 546 km  
South of Fiji Islands

8 eP z 08 03 46 D  
D = 63 h = 20 km  
Kurile Islands

## December

8 iP z 20 42 20 D  
D = 64 h = 40 km  
Kurile Islands

8 eP z 20 50 12  
D = 64 h = 50 km  
Kurile Islands

9 eP z 02 34 39  
D = 64 h = 55 km  
Kurile Islands

9 iP z 05 47 32  
D = 51 h = 45 km  
Alaska Peninsula

9 iP z 08 44 41  
D = 65 h = 50 km  
Kurile Islands region

9 iPKP z 11 11 56  
ipPKP z 14 01  
D = 128 h = 435 km  
West of Tonga Islands

9 iP z 12 33 16  
D = 64 h = 50 km  
Kurile Islands

9 eP z 12 39 36  
D = 64 h = 45 km  
Kurile Islands

10 ePP z 03 50 16  
D = 112 h = 366 km  
Banda Sea

10 iPKP z 06 49 50 C  
iPKS z 52 56  
e z 53 12  
D = 128 h = 110 km  
South Sandwich Islands region

11 eP z 01 06 55

11 iPKP z 02 49 20  
ipPKP z 51 16  
D = 127 h = 537 km  
West of Tonga Islands

11 eP z 17 18 02  
D = 57 h = 32 km  
Andreanof Islands, Aleutian Islands

12 iP z 23 34 58 C  
D = 63 h = 90 km  
Kurile Islands

December

14 IP z 07 58 54 C  
D = 42 h = 95 km  
Central Alaska

15 IP zZ 19 47 57 D  
IPKP z 52 02  
IPPP NE 52 36  
IPPP E 54 49  
ISKPS NE 57 35  
ISP E 20 00 55  
D = 107 h = 650 km  
Java Sea

16 L NE 02 43

16 IP z 13 55 35 C  
L E 14 12  
D = 41 h = 15 km  
Ionian Sea

16 ePKP2 z 14 38 20  
D = 153 h = 33 km  
South of Australia

17 IP z 23 31 37 C  
D = 54 h = 33 km  
Aleutian Islands region

18 ePKP zZ 00 49 12  
ePP zZ 51 42  
IPKS ZE 52 39  
IN 59 05  
IPSN 01 01 41  
IPPS N 03 45  
I E 06 28  
ISS E 08 49  
L NE 33  
D = 132 h = 46 km  
South of Fiji Islands

18 IP z 03 01 05  
D = 64 h = 33 km  
Kurile Islands

18 IP z 06 49 42 C  
D = 56 h = 33 km  
Southern Sinkiang Province, China

19 eP z 17 16 57  
D = 89 h = 56 km  
Off coast of northern Peru

21 ePKP z 12 53 28  
D = 128 h = 90 km  
Tonga Islands

December

21 eP z 13 22 10  
D = 90 h = 49 km  
Luzon, Philippine Islands

24 eP z 02 36 34  
D = 64 h = 50 km  
Kurile Islands

24 IP z 03 11 29 D  
D = 65 h = 50 km  
Kurile Islands

24 IP z 03 37 56 D  
D = 64 h = 45 km  
Kurile Islands

24 eP z 13 07 09  
D = 73 h = 70 km  
Honshu, Japan

24 IPKP2 z 21 26 41 D  
D = 162 h = 33 km  
Macquarie Islands region

26 IP z 08 01 37 C  
D = 14 h = 33 km  
Svalbard region

26 eP z 08 49 23  
IS ZN 49 41  
D = 2 h = 33 km  
Jan Mayen Island region

26 IP z 21 20 51 C  
D = 57 h = 33 km  
Fox Islands, Aleutian Islands

28 IPKP z 09 23 16 C  
ISKP z 26 46  
D = 140 h = 33 km  
Kermadec Islands

29 eP z 17 29 50  
D = 95 h = 113 km  
Northern Chile

29 eP z 18 57 05  
IS z 57 47  
D = 4  
Near shock

30 eP z 01 28 02  
IP z 28 32  
D = 88 h = 120 km  
Mariana Island region

December

30 eP z 13 39 57 C  
D = 64 h = 40 km  
Kurile Islands

30 eP z 15 17 37  
D = 97 h = 102 km  
Mindanao Philippine Islands

30 eP z 20 43 10  
D = 67 h = 50 km  
Hokkaido, Japan region

30 eP z 22 19 13  
D = 92 h = 64 km  
Nicobar Islands region

31 eP z 05 57 23 D  
i z 58 13

31 IPKP zZ 17 56 35 D  
L ZE 18 35  
D = 127 h = 30 km  
South Sandwich Islands

31 ePKP z 19 35 47  
D = 123 h = 80 km  
Tonga Islands

January

1 IP z 17 37 17 D  
D = 64 h = 45 km  
Kurile Islands

1 eP z 22 52 59  
D = 64 h = 45 km  
Kurile Islands

1 eP z 23 51 15  
D = 64 h = 60 km  
Kurile Islands

2 eP z 05 11 36  
D = 57 h = 40 km  
Near east coast of Kamchatka

3 IP z 17 30 35 C  
D = 57 h = 33 km  
Near Islands, Aleutian Islands

3 IPKP z 21 43 02  
D = 128 h = 520 km  
West of Tonga Islands

6 IP z 06 06 42 C  
D = 80 h = 110 km  
Ryukyu Islands

6 eP z 23 55 22 C  
IS N 00 03 22  
L NE 14  
D = 58 h = 33 km  
Kurile Islands

7 eP z 08 55 59  
D = 53 h = 80 km  
Fox Islands, Aleutian Islands

9 eP z 03 10 16 D  
D = 67 h = 50 km  
Hokkaido, Japan region

9 IP zZ 18 42 25 D  
eS N 51 03  
IPS E 51 17  
L ZN 19 05  
D = 64 h = 40 km  
Kurile Islands

10 IP zZ 05 01 47 C  
ePS E 11 06  
L E 22  
D = 67 h = 33 km  
Hokkaido, Japan region

10 IP z 11 03 22  
D = 65 h = 33 km  
Kurile Islands

## January

- 10 eP z 12 06 12 C  
D = 65 h = 33 km  
Kurile Islands
- 10 iP z 17 07 57  
D = 64 h = 50 km  
Kurile Islands
- 12 iP z 06 09 36 C  
L NE 28  
D = 54 h = 33 km  
Fox Islands, Aleutian Islands
- 12 eP z 12 55 16  
D = 55 h = 67 km  
Western Iran
- 13 iP z 13 35 31 D  
D = 63 h = 20 km  
Kurile Islands
- 14 eP z 01 20 54  
D = 56 h = 50 km  
Off east coast of Kamchatka
- 14 ePKP z 15 56 37  
D = 115 h = 169 km  
New Britain region
- 15 iP z 02 34 20  
D = 64 h = 45 km  
Kurile Islands
- 15 eP z 21 35 26  
D = 48 h = 33 km  
North Atlantic Ridge
- 15 iP zZ 21 48 09 C  
eS E 58 11  
L NE 22 14  
D = 80 h = 70 km  
South of Honshu, Japan
- 16 eP z 01 24 51  
Local shock
- 17 iP z 03 04 56 D  
D = 64 h = 55 km  
Kurile Islands
- 17 ePKP z 03 13 36  
D = 131 h = 33 km  
Tonga Islands region

## January

- 18 iP zZ 12 17 03 C  
iPcP Z 17 10  
eS N 27 25  
i E 27 35  
ePS N 28 18  
eSS N 32 55  
L E 42  
D = 83 h = 33 km  
Taiwan
- 18 eP z 22 46 09  
D = 58 h = 95 km  
Dominican Republic region
- 19 iP z 09 24 02 C  
D = 60 h = 33 km  
Southern Iran
- 20 iPKP zZ 17 27 31 D  
iPP z 29 43  
iSKP z 30 40  
esPP N 30 54  
eSS E 46 57  
D = 130 h = 141 km  
New Hebrides Islands
- 20 eP z 20 50 59  
D = 87 h = 53 km  
Luzon, Philippine Islands
- 22 iP z 16 10 34 C  
D = 77 h = 88 km  
Burma - India border region
- 23 ePKP z 00 18 40  
D = 123 h = 33 km  
New Hebrides Islands
- 24 eP z 03 37 32  
iL z 39 47  
D = 8 h = 33 km  
Eastern Greenland
- 24 iP z 17 27 59 D  
iP z 29 56  
D = 69 h = 542 km  
Sea of Japan
- 24 iP z 21 42 05 D  
i z 42 18  
D = 65 h = 33 km  
Kurile Islands region
- 26 iP z 09 22 37 C  
epP z 23 11  
ePP z 26 17  
eSKS E 33 00  
iS NE 33 34  
D = 93 h = 116 km  
Southern Peru

## January

- 26 eP z 10 14 41  
D = 83 h = 37 km  
Taiwan
- 27 eP z 01 23 39  
D = 71 h = 33 km  
Central Mid-Atlantic Ridge
- 28 iP zZE 14 18 44 C  
iP zE 19 18  
iS zNE 19 47  
epPP E 21 54  
eS N 26 27  
iS E 27 43  
i N 29 45  
iSSS E 32 12  
iPKPPK z 48 40  
D = 57 h = 207 km  
Hindu Kush region
- 30 eP z 17 53 52  
D = 43 h = 41 km  
Turkey
- 31 eP z 04 25 29  
D = 45 h = 33 km  
Southern Alaska
- February
- 1 eP z 01 57 37  
D = 55 h = 34 km  
Fox Islands, Aleutian Islands
- 1 eP z 11 59 51  
D = 83 h = 33 km  
Peru - Ecuador border region
- 2 eP z 06 43 37  
D = 75 h = 44 km  
South of Panama
- 2 eP z 09 07 14  
D = 83 h = 28 km  
Taiwan region
- 3 eP z 21 15 56  
D = 75 h = 47 km  
Southern Honshu, Japan
- 4 eP z 10 12 38  
D = 61 h = 40 km  
Kurile Islands
- 5 eP z 11 41 41 D  
epP z 41 58  
eS E 51 08  
ePS E 51 25  
L E 12 06  
D = 73 h = 52 km  
Near east coast of Honshu, Japan

## February

- 5 iPKP z 11 53 35  
ePKP z 55 27  
D = 128 h = 414 km  
West of Tonga Islands
- 6 eP z 07 53 14  
D = 55 h = 33 km  
Fox Islands, Aleutian Islands
- 6 eP zZNE 13 16 17  
iPP NE 18 18  
iS E 23 29  
iSS NE 27 00  
L ZNE 31  
D = 50 h = 33 km  
South of Alaska
- 6 iP z 13 22 36 C  
D = 50 h = 33 km  
South of Alaska
- 6 eP z 19 21 22  
ePP z 24 19  
D = 83 h = 33 km  
Ryukyu Islands
- 7 eP z 08 46 42  
D = 83 h = 45 km  
Ryukyu Islands region
- 7 iP z 13 09 59 C  
L NE 34  
D = 69 h = 45 km  
Near east coast of Honshu, Japan
- 8 iP z 11 27 27 C  
iP z 27 41  
D = 57 h = 60 km  
Rat Islands, Aleutian Islands
- 8 eP z 16 01 40  
eS z 02 30  
D = 4  
Near shock
- 8 eP z 19 24 18
- 8 eP z 22 26 37  
D = 63 h = 45 km  
Kurile Islands
- 9 iPKP z 02 18 11 C  
epPKP z 19 57  
D = 124 h = 480 km  
West of Tonga Islands
- 13 iP z 11 34 52 D  
D = 92 h = 33 km  
Brazil

## February

13 eP z 14 02 50  
D = 55 h = 144 km  
Kirgiz, SSR

14 eP z 05 09 30  
eS z 09 51  
D = 2  
Local shock

14 eP z 07 07 26  
D = 72 h = 33 km  
Near east coast of Honshu, Japan

14 ePKP z 16 48 21  
ePPS N 17 00 31  
L ZNE 24  
D = 115 h = 55 km  
New Britain region

15 IP z 13 16 52  
D = 55 h = 50 km  
Fox Islands, Aleutian Islands

16 eP z 00 26 56  
D = 57 h = 37 km  
Iran

17 eP z 17 03 46

18 iPKP z 01 50 16 D  
D = 125 h = 77 km  
New Hebrides Islands

18 IP z 03 59 57 D  
D = 72 h = 30 km  
Bhutan

18 IP z 12 25 48 C  
D = 32 h = 33 km  
Azores Islands

18 eP z 17 17 36  
D = 58 h = 223 km  
Hindu Kush region

18 IP z 22 54 28 D  
D = 65 h = 40 km  
Kurile Islands

20 eP z 02 57 03  
D = 58 h = 33 km  
Rat Islands, Aleutian Islands

20 IP z 03 36 48 D  
D = 58 h = 33 km  
Rat Islands, Aleutian Islands

20 eP z 08 46 06  
D = 64 h = 50 km  
Kurile Islands

## February

20 IP z 10 04 28  
i z 04 40  
eS E 13 18  
L E 25  
D = 65 h = 50 km  
Kurile Islands region

21 IP z 17 21 14 C  
L NE 30  
D = 32 h = 33 km  
Azores Islands

22 IP z 02 06 42 C  
D = 145 h = 203 km  
Off east coast of North Island, New Zealand

22 ePKP z 09 09 57  
D = 138 h = 33 km  
Kermadec Islands

22 IP z 16 15 56 D  
D = 78 h = 411 km  
South of Honshu, Japan

23 IP z 22 48 34 D  
D = 39 h = 33 km  
Aegean Sea

24 eP z 23 37 55  
D = 39 h = 16 km  
Aegean Sea

25 IP z 04 15 41 D  
epP z 17 07  
D = 77 h = 374 km  
South of Honshu, Japan

25 eP z 10 15 20  
D = 65 h = 50 km  
Kurile Islands

26 ePKP z 21 36 13  
D = 125 h = 33 km  
Tonga Islands

26 eP z 23 01 13  
IS z 02 32  
L NE 03  
D = 7 h = 33 km  
Iceland region

27 eP z 11 46 49  
D = 68 h = 33 km  
Near coast of Jalisco, Mexico

27 IP z 15 22 39 C  
i z 23 03  
D = 78 h = 102 km  
Burma

## February

28 eP z 17 59 20  
D = 81 h = 43 km  
Burma

29 eP z 15 31 50 D  
eS E 41 23  
D = 74 h = 34 km  
Off east coast of Honshu, Japan

29 ePKP z 20 32 40  
D = 126 h = 33 km  
Tonga Islands region

## March

1 ePKP z 00 08 08  
D = 112 h = 73 km  
Java

2 iPKP z 19 51 33 C  
D = 127 h = 105 km  
Tonga Islands

4 eP z 13 05 03  
D = 29 h = 33 km  
Azores Islands region

5 ePKP z 06 20 12  
D = 143 h = 40 km  
Southeast Indian Rise

5 eP z 08 24 32  
Local shock

8 ePKP z 01 55 43  
D = 153 h = 33 km  
South Island, New Zealand

8 eP z 19 34 28  
Local shock

10 eP z 14 13 50  
D = 105 h = 117 km  
Halmahera

11 eP z 01 23 33  
Local shock

12 IP z 22 46 09 C  
D = 92 h = 33 km  
Luzon, Philippine Islands

13 IP z 06 01 05 D  
D = 56 h = 33 km  
Fox Islands, Aleutian Islands

14 eP z 02 22 09

## March

14 iPKP z 12 02 56 C  
D = 128 h = 561 km  
West of Tonga Islands

14 eP z 15 22 23  
D = 59 h = 31 km  
Leeward Islands

14 iPKP z 15 23 41  
D = 122 h = 611 km  
New Hebrides Islands region

15 IP z 08 08 26 C  
D = 47 h = 0  
Eastern Kazakh, SSR

15 eP z 09 59 12  
D = 56 h = 170 km  
Kamchatka

15 IP z 22 37 22 C  
eS N 43 14  
D = 35 h = 27 km  
Straits of Gibraltar

16 IP z 01 15 50 C  
D = 64 h = 33 km  
Tsinghai Province, China

16 eP z 03 37 42  
D = 57 h = 132 km  
Tadzhik, SSR

16 IP z 08 54 58 D  
D = 65 h = 140 km  
Kurile Islands

16 ePKPz 21 57 43  
D = 128 h = 578 km  
West of Tonga Islands

18 IP zZN 04 46 32 D  
i z 47 21  
IS ZN 48 49  
IS NE 53 55  
IScS E 55 35  
ISS E 56 33  
L NE 05 02  
D = 57 h = 440 km  
Northwest of Kurile Islands

19 IP z 09 54 01  
D = 72 h = 33 km  
Arabian Sea

19 ePKP z 22 02 58  
D = 122 h = 33 km  
Samoa Islands region

March

20 IP z 07 07 40 C  
 ipP z 08 00  
 D = 82 h = 71 km  
 Near coast of Ecuador

20 ePKP z 19 13 02  
 D = 111 h = 121 km  
 Balli Sea

21 IP z 03 56 29 C  
 iPKP z 04 00 18  
 iPP zN 01 15  
 iSKS N 06 27  
 iS N 07 41  
 iSS E 16 30  
 D = 113 h = 367 km  
 Banda Sea

21 eP z 15 19 25  
 D = 70 h = 83 km  
 Near coast of Michoacan, Mexico

21 iPKP z 16 46 29 D  
 D = 135 h = 33 km  
 Kermadec Islands region

22 eP z 01 02 16  
 D = 56 h = 30 km  
 Near east coast of Kamchatka

22 IP z 07 17 56 C  
 epP z 18 42  
 D = 84 h = 147 km  
 Northern Peru

23 IP z 13 49 54 C  
 i z 50 45  
 D = 55 h = 126 km  
 Tadzhik - Sinkiang border region

24 eP z 20 43 50  
 D = 65 h = 33 km  
 Kurile Islands

25 eP z 10 19 27  
 D = 72 h = 48 km  
 Northern Colombia

26 eP z 01 28 32  
 Local shock

27 IP z 04 42 05  
 D = 75 h = 93 km  
 Burma - India border region

27 ePKP z 20 40 25  
 e z 42 50  
 esPKP z 43 02  
 D = 132 h = 520 km  
 South of Fiji Islands

March

28 IP zZNE 03 44 17 C  
 iS E 50 52  
 D = 43 h = 33 km  
 Southern Alaska

28 eP z 04 30 59

28 IP z 05 02 22 C  
 D = 45 h = 25 km  
 Kenai Peninsula, Alaska

28 IP z 05 13 54 C  
 D = 49  
 Alaska region

28 eP z 05 25 24  
 D = 44 h = 20 km  
 Southern Alaska

28 eP z 05 41 58  
 D = 44 h = 20 km  
 Southern Alaska

28 IP z 05 44 15  
 D = 48 h = 33 km  
 Kodiak Island region

28 IP z 05 49 47 C  
 D = 43  
 Alaska region

28 eP z 05 53 04  
 D = 44 h = 33 km  
 Kenai Peninsula, Alaska

28 eP z 05 54 52  
 D = 46  
 Kenai Peninsula, Alaska

28 eP z 05 58 19  
 D = 48  
 Kodiak Island region

28 eP z 06 14 06  
 D = 44  
 Alaska

28 IP z 06 16 56 D  
 D = 44 h = 20 km  
 Kenai Peninsula, Alaska

28 IP z 06 37 51  
 D = 44 h = 20 km  
 Gulf of Alaska

28 IP z 06 40 47 D  
 D = 44 h = 33 km  
 Southern Alaska

March

28 eP z 06 45 24  
 D = 47 h = 33 km  
 Kodiak Island region

28 IP z 06 49 41 C  
 D = 44 h = 15 km  
 Gulf of Alaska

28 IP z 06 52 23  
 D = 47 h = 25 km  
 Kodiak Island region

28 eP z 06 59 40 D  
 D = 48 h = 33 km  
 Kodiak Island region

28 IP z 07 01 58 C  
 D = 46 h = 20 km  
 Gulf of Alaska

28 IP z 07 17 22 D  
 D = 44 h = 33 km  
 Southern Alaska

28 IP z 07 18 43 D  
 D = 46 h = 20 km  
 Gulf of Alaska

28 IP z 07 24 44 D  
 D = 47  
 Gulf of Alaska

28 IP z 07 39 06 C  
 D = 48 h = 15 km  
 Kodiak Island region

28 eP z 07 57 30 C  
 D = 48 h = 15 km  
 Kodiak Island region

28 eP z 08 03 35  
 D = 47 h = 25 km  
 Gulf of Alaska

28 eP z 08 08 11  
 D = 47 h = 25 km  
 Gulf of Alaska

28 eP z 08 23 52  
 D = 48  
 Kodiak Island region

28 IP z 08 42 16 C  
 D = 47 h = 25 km  
 Kodiak Island region

28 IP z 08 48 30 C  
 D = 47 h = 20 km  
 Kodiak Island region

March

28 IP z 09 04 05 C  
 D = 48 h = 25 km  
 Kodiak Island region

28 IP zZ 09 09 43 C  
 iPPP N 12 11  
 L NE 26  
 D = 48 h = 20 km  
 Kodiak Island region

28 eP z 09 14 38  
 D = 49 h = 25 km  
 Kodiak Island region

28 eP z 09 22 15  
 D = 45 h = 35 km  
 Kenai Peninsula, Alaska

28 IP z 10 01 05 D  
 iS NE 07 49  
 i E 08 04  
 L NE 14  
 D = 44 h = 30 km  
 Gulf of Alaska

28 eP z 10 26 32  
 D = 49 h = 33 km  
 Kodiak Island region

28 eP z 10 41 33  
 D = 47  
 Kodiak Island region

28 IP z 10 44 15 C  
 eS NE 51 13  
 L NE 57  
 D = 48 h = 33 km  
 Kodiak Island region

28 eP z 11 01 55  
 D = 44 h = 20 km  
 Southern Alaska

28 eP z 11 07 50  
 D = 48 h = 30 km  
 Kodiak Island region

28 eP z 11 16 37 D  
 D = 44 h = 15 km  
 Kenai Peninsula, Alaska

28 eP z 11 44 34 C  
 eSKS N 54 30  
 L N 12 22  
 D = 106 h = 140 km  
 Northern Celebes

28 eP z 11 58 29 C  
 D = 46 h = 25 km  
 Gulf of Alaska



March		March	
28	eP z D = 44 h = 15 km Southern Alaska	28	eP z D = 45 h = 20 km Kenai Peninsula, Alaska
28	iP zZ iPP NE iS NE iScS E ISS N L NE D = 49 h = 25 km Kodiak Island region	28	iP zZ i z iPP E iPcP NE iS NE iPS N iScS E L NE D = 45 h = 40 km Kenai Peninsula, Alaska
28	eP z D = 44 h = 20 km Southern Alaska	28	eP z D = 46 h = 33 km Kodiak Island region
28	eP z D = 44 h = 15 km Southern Alaska	28	eP z D = 47 h = 20 km Gulf of Alaska
28	iP z D = 44 h = 15 km Central Alaska	28	iP z D = 47 h = 33 km Kodiak Island region
28	iP z D = 49 h = 25 km Kodiak Island region	29	iP z D = 45 h = 20 km Kenai Peninsula, Alaska
28	eP z D = 47 h = 25 km Kodiak Island region	29	iP z D = 49 h = 20 km Kodiak Island region
28	eP z D = 49 h = 33 km Kodiak Island region	29	eP z D = 46 h = 25 km Gulf of Alaska
28	eP z iS NE L NE D = 44 h = 10 km Southern Alaska	29	eP z D = 45 h = 30 km Kenai Peninsula, Alaska
28	iP z iPcP N eS E L NE D = 44 h = 10 km Southern Alaska	29	iP z D = 44 h = 40 km Kenai Peninsula, Alaska
28	eP z D = 44 h = 15 km Southern Alaska	29	iP z D = 44 h = 15 km Southern Alaska
28	iP z D = 45 h = 25 km Gulf of Alaska	29	eP z D = 49 h = 40 km Kodiak Island region
28	eP z D = 49 Kodiak Island region	29	eP z D = 48 h = 20 km Gulf of Alaska

March		March	
29	eP z D = 48 h = 25 km Kodiak Island region	29	iP z D = 44 h = 15 km Southern Alaska
29	iP zZ eS NE i NE eScS E e NE L NE D = 49 h = 30 km Kodiak Island region	29	eP z D = 44 h = 15 km Gulf of Alaska
29	eP z D = 47 h = 33 km Gulf of Alaska	29	eP z D = 44 h = 15 km Southern Alaska
29	iP z D = 49 h = 25 km Kodiak Island region	29	eP z D = 78 Ascension Island region
29	iP z D = 49 h = 25 km Kodiak Island region	29	eP z D = 44 h = 15 km Gulf of Alaska
29	iP z D = 49 h = 25 km Kodiak Island region	29	iPKP z D = 116 h = 68 km Solomon Islands
29	iP z D = 46 h = 15 km Gulf of Alaska	29	eP z D = 45 h = 30 km Kenai Peninsula, Alaska
29	iP z D = 45 h = 20 km Kenai Peninsula, Alaska	30	eP z D = 43 h = 33 km Southern Alaska
29	iP z D = 47 h = 25 km Gulf of Alaska	30	eP z D = 45 h = 17 km Kenai Peninsula, Alaska
29	iP z D = 45 h = 25 km Kenai Peninsula, Alaska	30	iP zZ iS NE ISS E L NE D = 49 h = 25 km Kodiak Island region
29	iP z i z D = 47 h = 20 km Kodiak Island region	30	iP z D = 43 h = 70 km Crete
29	iP z D = 44 h = 15 km Southern Alaska	30	iP zZ ePP Z iS E i NE L ZNE D = 44 h = 15 km Gulf of Alaska
29	iP z D = 44 h = 15 km Southern Alaska	30	eP z D = 49 h = 20 km Kodiak Island region
29	iP zZ iS NE L NE D = 45 h = 15 km Gulf of Alaska		
29	iP z D = 44 h = 20 km Gulf of Alaska		

## March

30 eP z 10 05 33 D  
D = 44 h = 15 km  
Southern Alaska

30 eP z 11 07 52  
D = 46 h = 25 km  
Gulf of Alaska

30 eP z 11 57 30  
L NE 12 15  
D = 49 h = 20 km  
Kodiak Island region

30 eP z 12 13 52  
D = 44 h = 25 km  
Southern Alaska

30 iP z 12 22 59 C  
D = 47 h = 25 km  
Kodiak Island region

30 eP z 12 46 26  
D = 44 h = 30 km  
Gulf of Alaska

30 eP z 13 12 19 C  
L NE 23  
D = 49 h = 20 km  
Kodiak Island region

30 iP z 13 41 04  
D = 49 h = 15 km  
Kodiak Island region

30 eP z 14 19 23  
D = 47 h = 30 km  
Kodiak Island region

30 iP z 15 16 12 C  
D = 46 h = 25 km  
Gulf of Alaska

30 iP zZ 16 18 09 C  
i z 18 16  
eS NE 25 07  
e NE 25 41  
L NE 32  
D = 48 h = 25 km  
Kodiak Island region

30 iP z 17 01 50 D  
D = 48 h = 15 km  
Kodiak Island region

30 eP z 17 30 08  
D = 44 h = 15 km  
Southern Alaska

## March

30 eP z 20 40 58  
D = 45 h = 15 km  
Gulf of Alaska

30 iP z 22 29 33 D  
D = 45 h = 15 km  
Southern Alaska

30 eP z 23 12 11  
D = 48 h = 20 km  
Kodiak Island region

30 iP z 23 59 57 D  
L NE 00 16  
D = 45 h = 33 km  
Gulf of Alaska

31 iP zZ 00 24 43 C  
eS NE 33 27  
L NE 43  
D = 64 h = 60 km  
Kurile Islands

31 eP z 00 53 13  
D = 45 h = 15 km  
Gulf of Alaska

31 iP z 02 53 43  
D = 46 h = 10 km  
Kenai Peninsula, Alaska

31 eP z 04 28 26  
D = 44 h = 5 km  
Southern Alaska

31 iP z 04 54 37  
D = 47 h = 33 km  
Kodiak Island region

31 eP z 07 17 20  
D = 46 h = 20 km  
Gulf of Alaska

31 iP z 08 49 03 C  
D = 45 h = 36 km  
Kenai Peninsula, Alaska

31 iP z 09 10 15 C  
ePP NE 12 13  
eS N 17 25  
eSS N 20 51  
L NE 25  
D = 49 h = 15 km  
Vancouver Island region

31 eP z 11 11 58  
D = 46 h = 20 km  
Gulf of Alaska

## March

31 eP z 11 27 25  
D = 44 h = 15 km  
Southern Alaska

31 eP z 12 01 18  
D = 44 h = 15 km  
Southern Alaska

31 iP z 12 01 57  
D = 49 h = 25 km  
Kodiak Island region

31 iP z 16 52 04  
D = 45 h = 33 km  
Kenai Peninsula, Alaska

31 eP z 18 45 40  
D = 44 h = 33 km  
Southern Alaska

31 eP z 21 12 29  
D = 47 h = 20 km  
Gulf of Alaska

31 eP z 21 20 58  
D = 47 h = 33 km  
Gulf of Alaska

31 eP z 22 59 14  
D = 48 h = 33 km  
Kodiak Island region

31 iP z 23 45 04  
D = 45 h = 30 km  
Gulf of Alaska

## April

1 iP z 00 09 18 D  
D = 44 h = 10 km  
Southern Alaska

1 eP z 03 13 59  
D = 44 h = 15 km  
Southern Alaska

1 eP z 03 31 53  
ePP N 33 40  
L NE 47  
D = 48 h = 25 km  
Kodiak Island region

1 eP z 04 58 08  
D = 49 h = 20 km  
Kodiak Island region

1 eP z 05 41 13  
D = 44 h = 15 km  
Gulf of Alaska

## April

1 eP z 06 47 57  
D = 44 h = 10 km  
Southern Alaska

1 eP z 08 41 34  
D = 44 h = 10 km  
Gulf of Alaska

1 eP z 11 09 33  
D = 44 h = 10 km  
Southern Alaska

1 iP z 14 03 08 D  
D = 48 h = 20 km  
Kodiak Island region

1 eP z 16 37 18  
D = 44 h = 15 km  
Gulf of Alaska

1 eP z 20 21 34 C  
D = 46 h = 15 km  
Gulf of Alaska

2 eP z 01 24 56  
eS N 36 12  
e N 36 46  
eSS E 42 34  
L NE 55  
D = 93 h = 33 km  
Northern Sumatra

2 eP z 09 13 19  
D = 47 h = 33 km  
Kodiak Island region

2 iP z 10 06 37  
D = 49 h = 20 km  
Kodiak Island region

2 iP z 11 49 32 C  
D = 46 h = 20 km  
Gulf of Alaska

2 eP z 16 10 23  
D = 102 h = 179 km  
Mindanao Philippine Islands

2 eP z 18 33 31  
D = 45 h = 45 km  
Southern Alaska

2 iP z 20 17 55  
D = 44 h = 10 km  
Gulf of Alaska

2 eP z 22 42 39  
L NE 55  
D = 44 h = 20 km  
Gulf of Alaska

April

3 eP z 00 50 31  
 3 IP z 04 26 02 C  
 D = 95 h = 52 km  
 Northern Sumatra  
 3 eP z 08 46 53 C  
 L NE 09 00  
 D = 45 h = 10 km  
 Gulf of Alaska  
 3 eP z 08 54 52  
 D = 46 h = 15 km  
 Gulf of Alaska  
 3 IP z 20 06 05  
 D = 45 h = 20 km  
 Kenai Peninsula, Alaska  
 3 eP z 21 17 04  
 eS z 17 47  
 D = 4  
 Near shock  
 3 eP z 22 24 35  
 D = 48 h = 15 km  
 Kodiak Island region  
 3 eP zZ 22 41 38 C  
 IPP zZ 43 20  
 IS z 48 06  
 L ZN 54  
 D = 43 h = 40 km  
 Southern Alaska  
 4 eP z 04 43 06  
 D = 44 h = 5 km  
 Southern Alaska  
 4 IP zZN 05 02 08 D  
 IPP N 03 51  
 IS NE 08 47  
 iScS N 12 10  
 L ZNE 15  
 D = 44 h = 40 km  
 Southern Alaska  
 4 IP z 07 01 32  
 D = 44 h = 15 km  
 Southern Alaska  
 4 IP zZ 08 49 14 C  
 eS NE 56 20  
 L ZNE 09 03  
 D = 49 h = 15 km  
 Kodiak Island region  
 4 eP zZ 09 19 36 C  
 D = 48 h = 15 km  
 Kodiak Island region

April

4 IP z 10 45 53 D  
 D = 45 h = 10 km  
 Kenai Peninsula, Alaska  
 4 IP zZ 17 54 55 C  
 IPP NE 56 51  
 IS NE 18 02 00  
 ISS N 05 05  
 L ZNE 09  
 D = 49 h = 25 km  
 Kodiak Island region  
 4 eP z 18 08 28  
 D = 49 h = 25 km  
 Kodiak Island region  
 4 IP z 18 24 40 D  
 D = 49 h = 25 km  
 Kodiak Island region  
 4 eP z 21 51 36  
 D = 96 h = 33 km  
 Panay, Philippine Islands  
 4 eP z 22 25 06  
 D = 44 h = 10 km  
 Gulf of Alaska  
 4 eP z 23 59 59  
 Local shock  
 5 IP z 01 30 49 C  
 IS E 38 18  
 ISS E 41 08  
 L NE 45  
 D = 49 h = 25 km  
 Kodiak Island region  
 5 eP z 01 50 29  
 D = 49 h = 35 km  
 Kodiak Island region  
 5 eP z 02 44 23  
 D = 45 h = 15 km  
 Southern Alaska  
 5 eP z 07 22 11  
 D = 49 h = 25 km  
 Kodiak Island region  
 5 eP z 08 21 50  
 D = 48 h = 15 km  
 Kodiak Island region  
 5 IP z 09 07 57 C  
 D = 50 h = 15 km  
 Kodiak Island region

April

5 eP z 17 49 30  
 D = 49 h = 10 km  
 Kodiak Island region  
 5 eP z 19 36 27  
 eS N 42 54  
 L NE 49  
 D = 44 h = 15 km  
 Gulf of Alaska  
 6 eP z 08 30 04  
 D = 48 h = 5 km  
 Kodiak Island region  
 6 eP z 10 50 45  
 D = 44 h = 15 km  
 Gulf of Alaska  
 6 IP z 11 07 51 C  
 D = 49 h = 33 km  
 Kodiak Island region  
 6 IP z 16 21 27 D  
 D = 65 h = 33 km  
 Kurile Islands  
 6 eP z 17 44 04 C  
 D = 44 h = 15 km  
 Gulf of Alaska  
 6 eP z 18 12 41  
 D = 49 h = 20 km  
 Kodiak Island region  
 6 eP z 23 37 34  
 Local shock  
 7 IP z 13 32 16 D  
 D = 106 h = 150 km  
 Northern Celebes  
 7 eP z 18 11 00  
 D = 48 h = 20 km  
 Kodiak Island region  
 7 eP z 19 37 13 C  
 D = 49 h = 20 km  
 South of Alaska  
 8 eP z 02 14 37  
 D = 64 h = 40 km  
 Kurile Islands  
 8 IP z 02 21 07 C  
 D = 64 h = 40 km  
 Kurile Islands

April

8 eP z 08 21 42  
 D = 97 h = 33 km  
 Chagos Archipelagos region  
 8 IP z 11 08 39 C  
 eS N 17 13  
 L NE 28  
 D = 64 h = 40 km  
 Kurile Islands  
 8 eP z 14 20 27 C  
 D = 43 h = 71 km  
 Crete  
 8 eP z 19 07 23  
 D = 48 h = 35 km  
 Gulf of Alaska  
 8 eP z 19 41 32  
 eSSS N 51 52  
 L NE 55  
 D = 45 h = 15 km  
 Gulf of Alaska  
 8 IP zZ 19 58 24 D  
 D = 44 h = 10 km  
 Southern Alaska  
 9 IP z 12 21 39 C  
 D = 45 h = 20 km  
 Kenai Peninsula, Alaska  
 9 eP z 13 14 26 D  
 eScS E 24 27  
 L NE 28  
 D = 44 h = 15 km  
 Gulf of Alaska  
 10 IP z 01 16 28 C  
 L E 32  
 D = 46 h = 15 km  
 Gulf of Alaska  
 10 IP z 19 14 08 D  
 D = 45 h = 15 km  
 Kenai Peninsula, Alaska  
 10 IP z 21 52 27 C  
 e N 22 02 56  
 L ZNE 07  
 D = 45 h = 10 km  
 Southern Alaska  
 11 IPKP z 01 23 19  
 D = 137 h = 302 km  
 Kermadec Islands region

April

11 eP z 07 42 06  
D = 45 h = 33 km  
Gulf of Alaska

11 eP z 09 32 36  
D = 49 h = 33 km  
Kodiak Island region

11 iP z 11 44 07 D  
D = 44 h = 15 km  
Southern Alaska

11 eP z 12 25 22  
D = 48 h = 20 km  
Kodiak Island region

11 eP z 16 08 07  
L NE 20  
D = 39 h = 33 km  
Aegean Sea

12 eP zZ 01 33 15 D  
ePP NE 35 15  
eS NE 40 15  
L ZNE 44  
D = 48 h = 22 km  
Kodiak Island region

12 ePKP z 06 19 40  
D = 123 h = 33 km  
New Hebrides Islands

12 eP z 09 43 26 D  
D = 48 h = 20 km  
Kodiak Island region

12 ePKP z 11 30 09  
D = 142 h = 89 km  
South of Kermadec Islands

12 eP z 12 14 01  
D = 43 h = 33 km  
Eastern Caucasus

12 eP z 12 44 59  
D = 49 h = 30 km  
Kodiak Island region

12 iP z 12 56 43  
D = 49 h = 33 km  
Kodiak Island region

12 eP z 14 43 46  
D = 44 h = 28 km  
Southern Alaska

April

12 iP z 17 30 08 D  
D = 44 h = 20 km  
Southern Alaska

13 iP z 03 31 21  
D = 72 h = 50 km  
Bhutan

13 iP z 08 36 29  
D = 32 h = 33 km  
Yugoslavia

13 eP z 08 50 18  
D = 46 h = 33 km  
Kodiak Island region

13 iP z 08 57 36  
D = 86 h = 309 km  
Volcano Islands region

13 iP z 12 33 46  
L NE 48  
D = 44 h = 40 km  
Gulf of Alaska

13 eP z 14 13 34  
D = 47 h = 25 km  
Kodiak Island region

13 eP z 16 22 52  
D = 49 h = 33 km  
Kodiak Island region

13 iP z 21 34 10  
i z 34 21  
D = 48 h = 30 km  
Kodiak Island region

13 iP z 21 51 23  
D = 44 h = 33 km  
Gulf of Alaska

14 eP z 16 03 08  
D = 43 h = 30 km  
Southern Alaska

14 eP z 23 04 03  
L NE 18  
D = 47 h = 30 km  
Kodiak Island region

15 eP z 00 50 45

15 iP z 08 32 50  
D = 46 h = 15 km  
Gulf of Alaska

April

15 iP z 15 39 30 C  
i E 41 45  
eS N 46 35  
i E 46 45  
L NE 55  
D = 49 h = 35 km  
Kodiak Island region

15 eP z 16 47 45  
D = 76 h = 36 km  
India

15 eP z 21 01 55  
D = 38 h = 121 km  
Aegean Sea

16 iP z 01 15 57 C  
eS E 25 27  
D = 72 h = 38 km  
Off east coast of Honshu, Japan

16 iPKP z 02 54 47  
iSKP z 57 59  
D = 131 h = 110 km  
Loyalty Islands region

16 iP z 03 28 12  
D = 48 h = 10 km  
Kodiak Island region

16 iP z 06 32 08 C  
D = 65 h = 33 km  
Kurile Islands

16 iP z 13 52 42 C  
i z 52 54  
L E 14 12  
D = 56 h = 33 km  
Fox Islands, Aleutian Islands

16 eP z 14 22 13  
D = 56 h = 40 km  
Fox Islands, Aleutian Islands

16 eP z 14 30 08  
D = 47 h = 33 km  
Gulf of Alaska

16 iP zZN 19 35 40 C  
iPP ZNE 37 36  
iS NE 42 39  
iScS E 45 38  
i N 46 36  
L NE 50  
D = 49 h = 30 km  
Kodiak Island region

April

17 eP z 04 12 05  
D = 44 h = 20 km  
Gulf of Alaska

17 eP z 04 25 04  
D = 44 h = 33 km  
Gulf of Alaska

17 iP zZNE 04 58 16  
ePP ZNE 05 00 09  
iS NE 05 21  
i NE 05 46  
L NE 15  
D = 40 h = 25 km  
Kodiak Island region

17 ePKP z 06 18 35  
D = 116 h = 85 km  
Solomon Islands

17 iP z 09 17 42 C  
e N 28 11  
L NE 35  
D = 47 h = 20 km  
Kodiak Island region

17 iP z 10 07 57 D  
D = 44 h = 20 km  
Southern Alaska

18 eP z 00 21 32  
D = 44 h = 33 km  
Gulf of Alaska

18 eP z 01 41 00  
D = 49 h = 33 km  
Kodiak Island region

18 eP z 03 15 20  
D = 47 h = 33 km  
Gulf of Alaska

18 iP z 05 38 18 D  
D = 64 h = 33 km  
Kurile Islands

18 iP z 06 06 15 D  
D = 64 h = 33 km  
Kurile Islands

18 eP z 06 37 35  
D = 64 h = 50 km  
Kurile Islands

18 eP z 07 24 52  
D = 45 h = 33 km  
Gulf of Alaska

April

18 IP z 07 55 35 D  
D = 47 h = 30 km  
Gulf of Alaska

18 IP z 08 10 23 C  
D = 78 h = 33 km  
Ryukyu Islands

18 IP z 20 17 06 D  
eS N 24 18  
L NE 32  
D = 49 h = 15 km  
Kodiak Island region

18 IP z 20 25 03 C  
D = 49 h = 30 km  
Kodiak Island region

19 ePKP z 04 04 29  
D = 145 h = 33 km  
South Pacific Cordillera

19 ePKP z 05 31 51  
D = 121 h = 33 km  
West Chile Rise

19 ePKP z 14 31 46  
D = 134 h = 33 km  
South Shetland Islands

19 eP z 18 59 18  
e z 59 28  
D = 44 h = 33 km  
Kenai Peninsula, Alaska

20 eP z 03 42 50  
D = 44 h = 30 km  
Gulf of Alaska

20 IP z 12 04 38 D  
IPP z 06 18  
eS N 11 06  
L NE 17  
D = 43 h = 30 km  
Southern Alaska

20 IP z 16 26 28  
D = 44 h = 15 km  
Southern Alaska

21 IP z 05 09 32  
D = 43 h = 40 km  
Southern Alaska

April

22 IP z 09 51 11  
L NE 55  
D = 19 h = 33 km  
North Atlantic Ocean

22 IPKP z 20 19 08 C  
D = 125 h = 123 km  
New Hebrides Islands

23 IP zZ 03 47 35  
IPKP z 51 28  
IPP z 52 19  
I ZNE 52 36  
IPPP Z 55 01  
IPS NE 04 02 05  
L E 23  
D = 113 h = 33 km  
Aroe Islands region

23 eP z 14 32 05 C  
D = 46 h = 57 km  
Jordan - Syria region

23 IP z 15 05 07  
L NE 22  
D = 48 h = 25 km  
Kodiak Island region

24 ePKP z 06 14 41  
ePP ZE 15 30  
I z 15 37  
ISKKS N 22 05  
eS NE 23 06  
eSS E 30 57  
L NE 50  
D = 114 h = 106 km  
New Guinea

24 eP z 14 42 08  
D = 78 h = 31 km  
Ryukyu Islands

24 IP zE 14 50 23  
IPP zE 54 00  
IS E 15 00 27  
I N 01 27  
L NE 14  
D = 69 h = 158 km  
El Salvador

24 eP z 20 19 45  
D = 57  
Southern Nevada

25 eP z 09 51 38  
D = 44 h = 30 km  
Gulf of Alaska

April

25 eP z 12 52 19  
D = 44 h = 27 km  
Dodecanese Islands

25 eP z 18 50 20  
I z 50 33  
D = 82 h = 33 km  
Southwestern Ryukyu Islands

26 ePKP z 15 10 20  
D = 128 h = 490 km  
Fiji Islands region

28 eP z 12 29 34  
D = 44 h = 33 km  
Southeastern Alaska

28 eP z 13 42 49  
D = 48 h = 33 km  
Gulf of Alaska

29 IP z 04 28 34 D  
D = 39 h = 33 km  
Aegean Sea

29 IP z 17 07 34 C  
D = 39 h = 32 km  
Aegean Sea

30 eP z 17 34 35  
D = 44 h = 33 km  
Southern Alaska

May

1 eP z 00 26 01  
D = 48 h = 30 km  
Kodiak Island region

1 eP z 03 21 34  
D = 47 h = 20 km  
Gulf of Alaska

1 eP z 03 48 44  
D = 44 h = 20 km  
Gulf of Alaska

1 IP z 06 09 59 C  
eS N 16 31  
L NE 24  
D = 44 h = 20 km  
Southern Alaska

1 eP z 07 52 55  
D = 45 h = 35 km  
Gulf of Alaska

May

2 IP zZN 16 21 34 C  
I Z 22 00  
I S N 30 10  
I N 31 11  
L N 41  
IPKPPK z 50 27  
D = 64 h = 35 km  
Kurile Islands

2 eP z 17 17 07  
D = 44 h = 30 km  
Gulf of Alaska

3 IP z 07 41 41  
D = 49 h = 30 km  
Kodiak Island region

4 IP z 12 13 16  
D = 47 h = 30 km  
Kodiak Island region

5 eP z 02 12 49  
D = 47 h = 33 km  
Gulf of Alaska

5 IP z 08 12 23 D  
D = 64 h = 40 km  
Kurile Islands

5 eP z 16 22 15  
D = 46 h = 25 km  
Gulf of Alaska

6 ePKP z 04 46 13  
D = 130 h = 33 km  
South Sandwich Islands region

6 ePKP z 08 29 37  
D = 112 h = 40 km  
Solomon Islands

6 IP z 15 35 17 C  
I z 35 25  
I S N 42 16  
L E 49  
D = 48 h = 15 km  
Kodiak Island region

6 IP z 17 22 11 C  
D = 70 h = 33 km  
Near east coast of Honshu, Japan

6 IP z 20 55 48 C  
D = 64 h = 40 km  
Kurile Islands

May

- 7 IPKP z 00 53 23 C  
D = 126 h = 300 km  
Fiji Islands region
- 7 IP zZ 05 57 56 C  
IS NE 06 08 20  
L NE 23  
D = 83 h = 33 km  
Tanganyika
- 7 IP zZNE 08 09 15 C  
iPP N 11 33  
IS N 18 25  
IPS E 18 38  
L NE 31  
D = 69 h = 33 km  
Near west coast of Honshu, Japan
- 7 eP z 08 37 13  
IPcP z 37 36  
D = 69 h = 33 km  
Near west coast of Honshu, Japan
- 7 IP z 11 21 16 D  
iPP z 23 07  
D = 78 h = 469 km  
South of Japan
- 7 eP z 19 20 42  
D = 44 h = 15 km  
Southern Alaska
- 7 IP zZNE 20 23 50 C  
iPP ZN 26 25  
IS E 32 59  
IPS E 33 30  
L NE 46  
IPKPPK z 52 04  
D = 69 h = 33 km  
Near west coast of Honshu, Japan
- 8 IP z 16 30 34 D  
iPP E 32 27  
IS N 37 37  
L NE 45  
D = 49 h = 25 km  
Kodiak Island region
- 8 eP z 22 00 46  
IS z 01 59  
D = 6 h = 25 km  
Jan Mayen Island region
- 8 eP z 23 50 18  
L E 00 04  
D = 56 h = 20 km  
Fox Islands, Aleutian Islands

May

- 9 IP z 02 12 03  
L NE 31  
D = 56 h = 25 km  
Fox Islands, Aleutian Islands
- 9 eP z 07 50 15  
D = 65 h = 33 km  
Kurile Islands
- 9 IP z 15 21 13  
D = 68 h = 25 km  
Near west coast of Honshu, Japan
- 10 IP z 05 51 47  
D = 80 h = 62 km  
South of Honshu, Japan
- 10 IP z 06 38 47  
D = 55 h = 35 km  
Fox Islands, Aleutian Islands
- 10 eP z 15 49 05  
D = 45 h = 15 km  
Southern Alaska
- 11 IP z 02 25 04  
D = 44 h = 33 km  
Southern Alaska
- 11 IP z 06 17 45 C  
D = 65 h = 62 km  
Southern Iran
- 11 eP z 10 13 46  
D = 65 h = 33 km  
Kurile Islands
- 12 ISKP z 01 58 45  
D = 134 h = 607 km  
South of Fiji Islands
- 12 IP z 11 55 41  
D = 44 h = 15 km  
Southern Alaska
- 12 eP z 17 03 55  
L NE 17  
D = 44 h = 33 km  
Gulf of Alaska
- 12 IP z 18 25 25  
ePP E 27 20  
IS E 32 26  
IScS E 35 21  
L E 38  
D = 48 h = 10 km  
Kodiak Island region
- 13 eP z 00 16 25 D  
D = 49 h = 33 km  
Kodiak Island region

May

- 13 eP z 03 22 06  
L E 23  
D = 10 h = 33 km  
Svalbard region
- 13 ePKP z 05 44 49  
eSKKS E 55 04  
eSS N 06 06 06  
L E 31  
D = 140 h = 33 km  
South of Kermadec Islands
- 13 ePKP z 16 02 17  
D = 140 h = 33 km  
South of Kermadec Islands
- 13 IP z 23 45 27  
D = 68 h = 33 km  
Eastern Sea of Japan
- 14 IP z 12 03 27 C  
D = 43 h = 15 km  
Central Alaska
- 14 eP z 13 57 31  
D = 25 h = 33 km  
Northwest Territories, Canada
- 16 IP z 06 09 35 C  
D = 47 h = 0 km  
Eastern Kazakh, SSR
- 16 IP z 08 48 33 D  
IS P z 49 16  
D = 57 h = 122 km  
Afghanistan - USSR border region
- 16 IP z 10 00 56 D  
D = 53 h = 33 km  
Unimak Island region
- 16 IP z 14 53 27 C  
D = 47 h = 33 km  
Kodiak Island region
- 16 ePKP z 16 27 13  
D = 141 h = 33 km  
South of Kermadec Islands
- 17 IP z 00 58 23 C  
L NE 01 12  
D = 44 h = 35 km  
Gulf of Alaska
- 17 eP z 04 50 56 C  
L E 05 08  
D = 52 h = 33 km  
South of Alaska
- 17 IP zN 19 33 22 D  
IS E 39 05  
ISS E 41 22  
I E 41 47  
D = 36 h = 33 km  
North Atlantic Ridge

May

- 18 eP z 21 20 52  
D = 44 h = 25 km  
Gulf of Alaska
- 18 eP z 21 20 52  
D = 44 h = 25 km  
Gulf of Alaska
- 19 IP z 06 12 10 D  
L NE 15  
D = 13 h = 33 km  
Svalbard region
- 19 eP z 10 49 58  
D = 64 h = 33 km  
Kurile Islands
- 19 eP z 14 50 46  
D = 44 h = 33 km  
Southern Alaska
- 19 IP z 15 46 16 D  
L E 16 01  
D = 48 h = 25 km  
Kodiak Island region
- 19 IP zE 23 15 50 D  
eS E 25 54  
L E 39  
D = 80 h = 54 km  
Near coast of Ecuador
- 19 IP z 23 32 18 D  
D = 61 h = 50 km  
Kurile Islands
- 20 IP z 05 40 41 C  
D = 47 h = 20 km  
Gulf of Alaska
- 20 ePKP z 06 19 36  
iPP z 20 24  
D = 112 h = 61 km  
Near coast of West New Guinea
- 21 IP z 01 19 29 C  
D = 44 h = 15 km  
Southern Alaska
- 21 IP z 22 43 07  
D = 64 h = 33 km  
Caribbean Sea
- 21 IP z 23 21 27 C  
D = 65 h = 45 km  
Kurile Islands

May

23 IP z 00 28 34 C  
D = 72 h = 33 km  
Arabian Sea

23 eP z 11 34 02  
D = 80 h = 409 km  
Bonin Islands region

24 eP z 00 48 33  
D = 45 h = 15 km  
Kenai Peninsula, Alaska

24 iPKP z 04 32 12 C  
D = 129 h = 33 km  
Tonga Islands region

24 IP z 10 43 06 C  
D = 75 h = 33 km  
Off east coast of Honshu, Japan

26 iPKP zNE 11 18 07 C  
ipPP NE 20 28  
I zE 21 17  
ISKKS E 26 54  
I E 30 45  
D = 127 h = 120 km  
South Sandwich Islands region

27 iPKP z 01 15 34 C  
D = 127 h = 105 km  
South Sandwich Islands region

28 eP z 02 09 17  
D = 82 h = 41 km  
Taiwan region

28 IP z 13 02 53 C  
D = 92 h = 103 km  
Peru

28 IP z 16 26 32 C  
D = 46 h = 25 km  
Gulf of Alaska

29 IP z 05 18 40 C  
D = 65 h = 50 km  
Kurile Islands

29 iPKP z 09 23 28  
D = 127 h = 33 km  
South Sandwich Islands region

29 IP zZN 10 25 45 D  
IS NE 32 18  
eScS E 35 31  
L NE 41  
D = 44 h = 5 km  
Southern Alaska

May

29 iPKP z 18 53 10  
ipPKP z 55 45  
D = 134 h = 614 km  
South of Fiji Islands

29 ipPKP z 19 03 08  
D = 134 h = 605 km  
South of Fiji Islands

29 epPKP z 19 22 39  
D = 134 h = 613 km  
South of Fiji Islands

31 IP zZNE 00 51 21 C  
IS NE 01 00 06  
IPS E 00 31  
I N 00 46  
L E 08  
iPKPPK z 20 16  
D = 65 h = 48 km  
Kurile Islands

31 eP z 10 34 22  
D = 55 h = 110 km  
Near east coast of Kamchatka

31 eP z 13 30 44  
D = 67 h = 33 km  
Kansu Province, China

## June

1 iPKP z 06 23 47 D  
D = 124 h = 176 km  
New Hebrides Islands

1 eP z 11 32 47  
D = 65 h = 33 km  
Kurile Islands

2 eP z 16 17 33  
eS N 24 09  
L NE 31  
D = 44 h = 15 km  
Gulf of Alaska

2 eP z 16 37 50  
D = 44 h = 10 km  
Gulf of Alaska

3 IP z 03 00 44 C  
D = 75 h = 100 km  
Burma - India border region

3 eP z 14 11 50  
D = 44 h = 20 km  
Gulf of Alaska

June

4 IP z 04 40 15 C  
D = 71 h = 22 km  
Guerrero, Mexico

4 IP z 11 58 41 C  
D = 88 h = 124 km  
Peru

5 eP z 00 20 08  
D = 45 h = 33 km  
Turkey

5 eP zZN 04 49 54 C  
D = 23 h = 33 km  
North Atlantic Ridge

5 IP zZ 09 58 41 C  
IS NE 10 05 12  
L NE 12  
D = 44 h = 15 km  
Southern Alaska