

Sup

COMANDANCIA GENERAL DE LA MARINA
SERVICIO DE HIDROGRAFIA Y NAVEGACION
OBSERVATORIO DE SISMOLOGIA
Y MAREAS TERRESTRES
Caracas - Venezuela
BOLETIN SISMICO MENSUAL
DICIEMBRE 1.963

*Caracas
Tenequela
Dic. 1963.
Copied*

1. iPn 12 41 12, iPb 41 27, iSn 42 08.5, iSn 42 12, iSb 42 25.5, iSb 42 34, eiSg 42 49, FX 44.0, d = 580 Kms, H = 12:39:50.-
2. eR 12 46.0 (T 22), F 59.0, CGS: H = 11:45:38.5, reg. Isl. Kuriles, 48.1 N, 154.7 E.-
2. eXP 13 48 49, e (SKS) 58 00, eSS 14 03 (30), R (y PKP) 16.0 (T 22), F 15 20, d = 8 100 Kms, H = 13:37:29, CGS: reg. Isl. Tristanda Cunha, 44.4 S, 15.6 W.-
2. eZP 15 42 08, iS 45 45, eSS 47 10, F 59.0, d = 2 300 Kms, H = 15:37:43, CGS: frente a la costa de Ecuador, 1.4 N, 84.6 W.-
- X 2. eZ(P) 21 07 40, i(S) 17 26, i(SS) 22 32, e (SSS) 25 36, L 32.0 (T 37), ML 34.5 (T 27), R 44.0 (T 17), F 22 40, d = 8 600 Kms, H = 20:55:50, CGS: reg. Svalbard, 80.1 N, 0.6 W.-
3. e 00 40.0 (T 28), F 59.0.-
3. eR 14 49.7 (T 22), F 54.0, CGS: H = 13:27:31, Isl. Kuriles, 45.7 N, 153.3 E.-
3. iP 17 16 25, iPP 17 20, iS 20 00, iSS 21 20, F 59.0, d = 2 250 Kms, H = 17:12:20, V 206 Z, T 1.5, CGS: frente a la costa de Ecuador, 2.2 N, 84.5 W, Mag. CGS. 5.2, h = 56 Kms.-
3. eiZ PP 21 36 20, eSKP 37 30, ePPP 39 20, i 40 08, i 46 16, iPPS 48 04, e 49 16, i(SS) 54 04, e 56 50, e 22 02 20, eL y R 21.0 (T 20), F en el sismo siguiente, d = 14 300 Kms, H = 21:15:10, CGS: Isl. Sta. Cruz, 12.2 S, 166.0 E.-
- X 3. iP 23 10 16.5 (D), iPPP 11 44, i(PcP) 13 02, iS 15 34, i(PcS) 16 24, iSS 17 46, E 13 u (T 14), N 80 u (T 14), Z 80 u (T 24), ML 20.0 (T 42), MR 24.0 (T 24), F en el sismo siguiente, d = 3 700 Kms, H = 23:03:41, V 225 Z, T 1.6, CGS: N de Chile, 22.4 S, 69.3 W, Mag. Pas. 6¼, CGS 6.1, h = 18 Kms.-
- X 4. eR 02 26.7 (T 28), F en el sismo siguiente, CGS: H = 01:27:34.1, Isl. Kuriles, 46.2 N, 153.1 E.-

Continúa

*Marcos
JSS*

Continuación del mes de Diciembre de 1963.

4. iXP 03 18 23, iS 22 40, R 28.0 (T 20), F 04 20, d = 2 800 Kms, H = 03:13:15, CGS: frente a la costa del Perú, 8.3 S, 83.1 W.-
4. iXP 04 26 16 (D), iS 32 04, eiSS 35.0 (T 22), F 05 30, d = 4 500 Kms, H = 04:18:36, V 506 Z, T 1.0, CGS: reg. Isl. Revilla Gigedo, 19.5 N, 108.3 W, Mag. CGS. 4.8, h = 33 Kms.-
- X 4. eR 09 23.0 (T 28), F 50.0, CGS: H = 08:24:17.1, Isl. Kuriles 46.1 N, 152.9 E.-
- X 4. eXP 16 09 27, iPcP 10 38, iPP 11 44, iPPP 12 46, iPcS 14 30, iS 17 24, iScS 19 20, L 26.0 (T 31), R 30.0 (T 22), F 19 00, d = 6 500 Kms, H = 15:59:42, CGS: reg. Isl. Pascuas, 35.5 S, 102.8 W.-
5. eZP 04 33 04, iPP 35 20, iPPP 36 30, iS 41 00, iSS 44 38, iSSS 46 24, R 54.0 (T 20), F 05 59.0, d = 6 400 Kms, H = 04:23:24, CGS: reg. Isl. Pascuas, 35.7 S, 103.1 W.-
- X 5. iXP 11 32 22, iS 34 20, iSS 34 56, F 12 30, d = 1 200 Kms, H = 11:30:00, V 375 Z, T 1.0, CGS: Colombia, 7.4 N, 77.3 W, Mag. CGS. 4.7, h = 33 Kms.-
6. iX PKP 02 16 08, FX 17 30, CGS: H = 01:56:42.8, Nueva Bretaña, 5.8 S, 150.3 E.-
6. Microsismicidad a las 19 horas: V 636 Z, T 15.0, E y W aprox. igual.-
6. iZP 18 19 27, iS 23 33, iSS 25 10, LyR 28.0 (T 22), F 59.0, d = 2 600 Kms, H = 18:14:37, CGS: cerca de la costa del Perú, 7.1 S, 80.5 W.-
8. e 06 47.0 (T 25), F 55.0.-
- X 8. e 08 52.0 (T 26), F 09 20, CGS: H = 07:53:15.1, Isl. Kuriles, 46.4 N, 153.0 E.-
9. eR 06 21.1 (T 25), F 35.0, CGS: H = 05:38:29.5, Alaska, 54.9 N, 159.4 W.-
- X 9. i(S) 11 21 26, eL 41 10, F 44.0, CGS: H = 10:53:39.4, reg. Isl. Fiji, 21.1 S, 178.0 W.-
10. eXP 02 35 51, eR 41.5, F 50.0, CGS: H = 02:32:04.6, S de Panamá, 5.4 N, 82.5 W.-
- X 10. eWZ PKP 03 51 10, eiPP 56 04, eiPPP 04 00 20, e(PS) 08 00 i(SS) 15 34, F 06 00, d = 18 600 Kms, H = 03:31:00, CGS: Mar de Banda, 6.2 S, 128.1 E.-

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Continuación del mes de Diciembre de 1963.

10. iXPn 05 54 13, iSn 55 31, FX 59.0, d = 800 Kms, H = 05:52:22, CGS: Colombia, 7.0 N, 73.1 W, Mag. 3.9, h = 142 Kms.-
- X 10. ✓ iXP 06 42 30, ~~iS 52 00~~, ePS 52 38, eSS 56 40, eSSS 59 50, L 07 03.0 (T 50), R 12.4 (T 22), F 07 59.0, d = 8 300 Kms, H = 06:30:55, CGS: reg. Isl. Sandwich, 58.1 S, 26.4 W.-
10. eX(P) 20 05 23, e(S) 07 00, F 45.0, d = 1 050 Kms, H = 20:03:25, CGS: Isl. Leeward, 17.1 N, 60.4 W.-
- X 11. ✓ eWZS 01 14 (24), eSS 21 52, eSSS 26 00, eR 39.0 (T 30), F 03 30, d = 12 300 Kms, H = 00:47:44, CGS: reg. Isl. Tonga, 15.1 S, 173.6 W.-
- X 11. ✓ ePPS 17 35 30, eiSS 40 00, ei (PKP) 45 20, R 18 00 (T 24), F 59.0, d = 10 800 Kms, H = 17:08:20, CGS: Isl. Adreanof, 51.3 N, 179.5 W.-
12. eXP 00 46 03, eS 52 (00), eiSS 55 06, ei ScS 56.0 (T 40), R 01 01.0 (T 20), F 20.0, d = 4 500 Kms, H = 00:38:28, CGS: frente a la costa de Jalisco, Méjico, 18.7 N, 107.0 W.-
12. iXPn 20 56 24.5 C, ciSn 57 28, FX 21 08.0, P-azimut WSW-SW, d = 830 Kms, H = 20:54:30, V 474 Z, T 0.5, CGS: Colombia, 5.7 N, 73.1 W, Mag. 4.9, h = 140 Kms.-
13. eXP 04 20 02, eS 23 18, FX 29.0, d = 2 000 Kms, H = 04:16:08, CGS: Ecuador, 2.7 S, 78.4 W.-
13. eXP 05 30 (47), eS 32 35, ML 34.0 (T 20), F 46.0, d = 1 100 Kms, H = 05:28:14, CGS: N de Colombia, 6.9 N, 77.1 W, Mag. CGS. 4.0, h = 33 Kms.-
- X 14. ✓ iXP 00 08 58, ~~eiSS 12 18~~, F 40.0, d = 1 600 Kms, H = 00:05:48, V 456 Z, T 0.7, CGS: N del Brasil, 2.3 S, 61.2 W, Mag. CGS. 4.8, h = 36 Kms.-
14. eXP 10 30 (35), eiS 33 36, eiSS 34 28, F 59.0, d = 1 800 Kms, H = 10:27:(05), V 306 Z, T 1.2, CGS: S de Panamá, 5.0 N, 82.6 W, Mag. CGS. 4.5, h = 33 Kms.-
- X 15. ✓ iXPKP₁ 19 53 43, ~~iXPKP₂ 55 08~~, eiSKP 57 20, iPP 59 00, iPPP 03 20, ~~iSKKS 05 56~~, F 25 00.0, d = 19 300 Kms, H = 19:33:28, V 305 Z, T 1.2, CGS: Mar de Java, 4.8 S, 108.0 E, Mag. 6.4 CGS. h = 650 Kms.-
- X 16. ✓ eXPKP 02 11 37.5, eiPP 02 16 49, iSKKS 23 38, eiPSKS 27 43, iSS 38 00, ML 42.0 (T 60), eR 03 12.0 (T 90), MR 17.5 (T 32), F 04 30.0, d = 19 300 Kms, H = 01:51:22, CGS: cerca de la costa E de Sumatra, 6.1 S, 104.9 E.-
16. eiXPKP 05 23 31.1, FX 40.0, CGS: H = 05:08:14.8, frente a la costa W de Nueva Guinca, 5.0 S, 133.8 E, d = 17 800 Kms.-

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Continuación del mes de Diciembre de 1963.

- 16. eXP 06 28 12.5, i 28 28.0, FX 29.5, CGS: H = 06:23:20.4, frente a la costa de Salvador.-
- X 16. eXP 14 00 17, MR 15 37.0 (T 22), F 16 15.0, CGS: H = 13:47:56.4, Mar Jónico, 37.1 N, 20.9 E, d = 9 200 Kms.-
- 16. iWZXP 16 44 51.5 D, eiS 47 52, F 53.0, d = 1 850 Kms, H = 16:41:18, P-azimut WSW, CGS: Ecuador, 1.6 S, 78.0 W.-
- 16. iXPg 21 42 55.8 C, iSg 42 58.1, FX 43 30, P-azimut SSW, d = 20 Kms, H = 21:42:52, V 305 Z, T 0.3.-
- X 18. eXP 00 44 41 D, i!FP 49 21, iSKKS 56 04, iS 57 05, i 57 59, ei 59 13, eL 01 27.5 (T 60), resto superpuesto por el sismo siguiente. P-azimut WSW, d = 12 500 Kms, H = 00:29:56, CGS: Isl. Tonga-Kernadec, 24.8 S, 176.6 W.-
- 18. iX(P) 00 59 27, resto muy mezclado, V 145 Z, T 0.9.-
- X 19. iXP 17 09 16.5 D, iS 13 22, MR 19.0 (T 22, E 12 u, N 17 u, Z 27 u), F 18 30.0, P-azimut SW-SSW, d = 2 600 Kms, H = 17:04:16, V 245 Z, T 0.8, CGS: cerca de la costa de Perú Central, 9.7 S, 79.1 W, Mag. CGS. 5.1, h = 56 Kms.-
- 19. eSS 20 (52 30), ML 58.0 (T 24), MR 21 02.0 (T 13), F 35.0, d = 5 100 Kms, H = 20:35:50, CGS: Prov. Mendoza, Argentina, 35.2 S, 68.0 W.-
- 20. eiXP 10 52 49, eiS 56 40, MR 11 00.0 (T 24), F 20.0, d = 2 450 Kms, H = 10:48:09, CGS: cerca de la costa N de Perú, 5.2 S, 80.8 W.-
- 20. eiXPn 21 51 26.0, iSn 51 41.8, i 51 46.0, FX 52 25, d = 130 Kms, H = 21:51:08, V (506) Z, T 0.4 aprox.-
- 21. MR 07 55.1-60.0 (T 20-16), F 08 16.0.-
- 21. iXPn 21 24 46.5, iXsg 24 51.5, FX 27 20, d = 55 Kms aprox., H = 21:24:37, V (605) Z, T 0.3.-
- X 22. iXPn 23 15 36 D, iXSn 16 54, i(Sg) 17 44, FX 30.0, d = 770 Kms, P-azimut SW-WSW, H = 23:13:58, V 475 Z, T 0.8, CGS: Colombia, 6.9 N, 73.0 W, sentido en Bogotá, Manizales y Bucaramanga, Mag. CGS. 5.2, h = 153 Kms.-
- 23. eXPn 22 35 55, iPb 36 12, eiSn 37 11, FX 45.0, d = 750 Kms, H = 22:34:10, V 205 Z, T 0.7, CGS: frente a la costa N de Colombia, 12.3 N, 72.8 W, M 4.5, h = 33 Kms.-
- 24. eiXPg 17 47 17.6, iSg 47 20.1, FX 47 35, d = 20 Kms aprox., H = 17:47:13, V (125) Z, T 0.5.-
- X 26. eR 09 19.7-24.0 (T 40-20), F 30.0, CGS: H = 07:58:22.4, reg. Svalbard, 76.5 N, 22.4 E.-

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Continuación del mes de Diciembre de 1963.

27. iXPg 18 49 19.8 C, iSg 49 23.1, FX 49 37.0, P-azimut SE, d = 27 Kms, H = 18:49:15, V 786 Z, T 0.4, entre Sta. Lucia y Charallave, Venezuela, 10.3 N, 66.2 W.-
- X 28. eXPKP 06 04 (38), eWZPP 07 36, eiPSKS 17 32, iPFS 19 58, iSS 26 20, ML 50.2 (T 44), F 07 55.0, d = 15 600 Kms, H = 05:45:(18), CGS: reg. Nueva Irlanda, 5.1 S, 153.5 E.-
- X 28. eWEPP 09 23 20, eiWESKS 09 29 06, i SKKS 30 16, iPS 33 00, iSS 39 40, ML 58.1 (T 40), F 10 30.0, d = 12 900 Kms, H = 09:03:40, CGS: Isl. Kermadec, 32.7 S, 178.9 W.-
- X 28. eiWZXP 18 09 53.2 C, i!S 19 12, iSS 23 (36), eiSSS 27 00, ML 33.0 (T 36), MR 40.0 (T 24), F 19 25.0, d = 8 000 Kms, H = 17:58:37, CGS: región S de las Isl. Shethand, 60.4 S, 51.8 W.-
28. eWZXP 24 07 (21) D, eiSKS 16 46, eL 28.5 (T 40), MLyR 35.0 (T 20), F 25 10.0, d = 8 600 Kms, H = 23:55:(11), CGS: S del Océano Pacífico, 53.0 S, 118.4 W.-
29. eLyR 03 58.5-64.0 (T 40-20), F 66.0, CGS: H = 03:41:28, frente a la costa de Jalisco, Méjico, 18.8, 106.2 W.-
29. eLyR 04 51.6-57.0 (T 40-20), F 59.0, CGS: H = 04:34:31, frente a la costa de Jalisco, Méjico, 19.1 N, 105.9 W.-
29. eLyR 06 40.0-46.1 (T 44-20), F 50.0, CGS: H = 06:22:48, frente a la costa de Jalisco, Méjico, 18.6 N, 105.8 W.-
- X 29. iXP 17 21 28.0 C, iS 26 08, i 26 47, i(SS) 27 26, ML 29.0 (T 52), F 18 03.0, d = 3 200 Kms, H = 17:15:43, V 155 Z, T 0.5, CGS: N de Chile, 18.5 S, 69.7 W, h = 113 Kms, Mag. CGS. 5.5.-
30. eWZXP 23 43 (35), eS 46 39, M 48.3 (T 20), F 57.0, d = 1 900 Kms aprox., H = 23:39:(55), CGS: Ecuador, 2.5 S, 78.4 W.-
31. iWZX(Pn) 02 04 18 D, FX 08.5.-
- X 31. iWZXP 17 49 44 C, i!SKS 58 45, i(SS) 18 03 42, ML 11.5 (T 33), MR 23.0 (T 20), F 21 10.0, P-azimut SE-SSE, d = 8 400 Kms, H = 17:38:04, V 225 Z, T 0.9, CGS: reg. Isl. Sandwich, 56.5 S, 26.0 W, M (CGS) 6.3, M (Pal.) $6\frac{1}{2}$, h = 30 Kms.-

G.Fiedler

G.N.