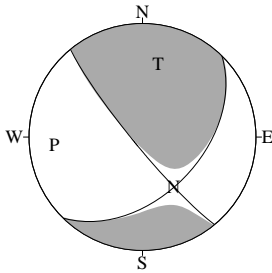


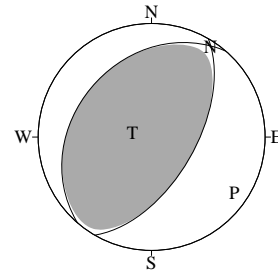
CMT SOLUTIONS FOR EARTHQUAKES IN JULY, 2022

2022/07/02 10:59:44.2  
 SOUTH SAKHALIN  
 Hypo.:45°49.1'N 142°13.6'E 324km



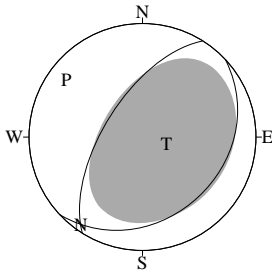
Cent.:45°49.6'N 142°13.2'E 335km  $\Delta t$ = 0.5  
 Mo:  $7.80 \times 10^{17}$ N·m Mw:5.9 Mj:5.9 (sec)  
 mrr: 1.10 mtt: 5.06 mff:-6.17  
 mrt: 4.07 mrf:-3.39 mtf:-0.63 ( $\times 10^{17}$ N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 44° 47° 171° P-axis:-7.60 265° 23°  
 NP2:141° 83° 43° T-axis: 8.00 12° 34°  
 N-axis:-0.40 148° 47°  
 V.R.: 88%  $\epsilon$ : 0.05 N:20 COMP:39

2022/07/05 17:52:42.0  
 HIDAKA MOUNTAINS REGION  
 Hypo.:42°19.8'N 142°59.5'E 53km



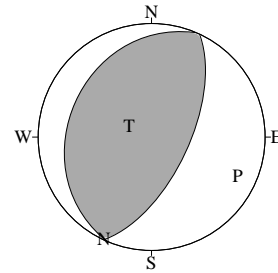
Cent.:42°15.4'N 142°59.6'E 53km  $\Delta t$ = 2.1  
 Mo:  $3.03 \times 10^{16}$ N·m Mw:4.9 Mj:4.9 (sec)  
 mrr: 2.72 mtt:-0.93 mff:-1.79  
 mrt: 0.55 mrf: 1.27 mtf:-1.24 ( $\times 10^{16}$ N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 30° 59° 84° P-axis:-2.99 124° 13°  
 NP2:221° 32° 99° T-axis: 3.07 284° 76°  
 N-axis:-0.08 33° 5°  
 V.R.: 72%  $\epsilon$ : 0.03 N:28 COMP:55

2022/07/06 05:10:24.9  
 E OFF MIYAGI PREF  
 Hypo.:38°24.7'N 141°57.2'E 63km



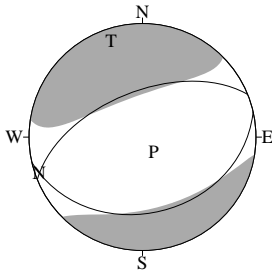
Cent.:38°22.9'N 141°57.3'E 49km  $\Delta t$ = 3.8  
 Mo:  $1.10 \times 10^{17}$ N·m Mw:5.3 Mj:5.4 (sec)  
 mrr: 1.00 mtt:-0.46 mff:-0.54  
 mrt:-0.25 mrf:-0.58 mtf:-0.32 ( $\times 10^{17}$ N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 47° 29° 103° P-axis:-1.00 307° 17°  
 NP2:212° 62° 83° T-axis: 1.20 105° 72°  
 N-axis:-0.20 215° 6°  
 V.R.: 84%  $\epsilon$ : 0.16 N:34 COMP:82

2022/07/06 13:02:10.6  
 E OFF AOMORI PREF  
 Hypo.:41°29.5'N 142° 0.9'E 58km



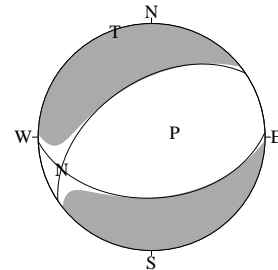
Cent.:41°27.1'N 142° 1.2'E 57km  $\Delta t$ = 0.7  
 Mo:  $1.63 \times 10^{16}$ N·m Mw:4.7 Mj:4.6 (sec)  
 mrr: 1.32 mtt:-0.22 mff:-1.10  
 mrt: 0.42 mrf: 0.87 mtf:-0.49 ( $\times 10^{16}$ N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 25° 63° 91° P-axis:-1.64 114° 18°  
 NP2:203° 27° 88° T-axis: 1.63 297° 72°  
 N-axis: 0.00 205° 1°  
 V.R.: 76%  $\epsilon$ : 0.00 N:29 COMP:43

2022/07/06 22:02:22.4  
 NW OFF OKINAWAJIMA IS  
 Hypo.:26°47.2'N 126°21.4'E 23km



Cent.:26°39.4'N 126°21.8'E 10km  $\Delta t$ = 6.3  
 Mo:  $5.25 \times 10^{16}$ N·m Mw:5.1 Mj:5.1 (sec)  
 mrr:-4.10 mtt: 4.84 mff:-0.74  
 mrt: 1.94 mrf: 0.89 mtf: 2.03 ( $\times 10^{16}$ N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 77° 33° -83° P-axis:-4.56 142° 77°  
 NP2:248° 57° -95° T-axis: 5.95 342° 12°  
 N-axis:-1.38 251° 4°  
 V.R.: 77%  $\epsilon$ : 0.23 N:18 COMP:35

2022/07/08 09:00: 1.9  
 NW OFF OKINAWAJIMA IS  
 Hypo.:26°50.1'N 126°15.6'E 17km

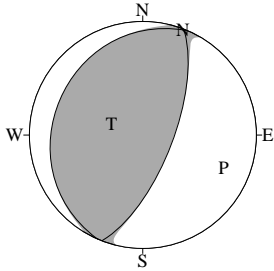


Cent.:26°38.4'N 126°16.9'E 10km  $\Delta t$ = 8.3  
 Mo:  $3.86 \times 10^{16}$ N·m Mw:5.0 Mj:5.1 (sec)  
 mrr:-3.44 mtt: 3.53 mff:-0.08  
 mrt:-0.04 mrf: 1.00 mtf: 1.35 ( $\times 10^{16}$ N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 88° 45° -66° P-axis:-3.74 78° 73°  
 NP2:236° 49° -112° T-axis: 3.99 341° 2°  
 N-axis:-0.25 250° 17°  
 V.R.: 76%  $\epsilon$ : 0.06 N:17 COMP:34

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

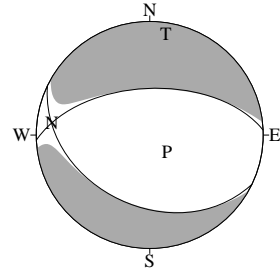
Hypo.:Location of hypocenter, Cent.:Location of centroid,  $\Delta t$ :Centroid time minus origin time  
 Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude  
 mrr,mtt,mff,mrt,mrf,mtf:Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane  
 MOM,AZM,PLG:Moment tensor component, azimuth and plunge of P-, T-, N-axis  
 V.R.:Variance Reduction,  $\epsilon$ :Non-double couple component ratio, N:Number of stations, COMP:Number of components

2022/07/21 18:44:41.0  
 E OFF FUKUSHIMA PREF  
 Hypo.:37°30.4'N 141°32.5'E 47km



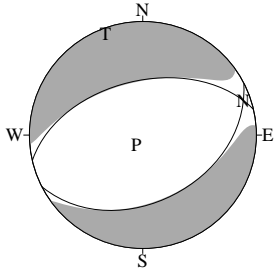
Cent.:37°32.1'N 141°32.8'E 47km  $\Delta t = 0.6$   
 Mo:  $1.54 \times 10^{16}$  N·m Mw:4.7 Mj:4.8 (sec)  
 mrr:-1.04 mtt:-0.13 mff:-0.91  
 mrt: 0.40 mrf: 1.05 mtf:-0.38 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 21° 69° 89° P-axis:-1.55 112° 24°  
 NP2:203° 21° 92° T-axis: 1.53 290° 66°  
 N-axis: 0.03 21° 1°  
 V.R.: 82%  $\epsilon$ :-0.02 N:25 COMP:35

2022/07/22 12:01:57.3  
 EASTERN AOMORI PREF  
 Hypo.:40°33.0'N 141°25.0'E 86km



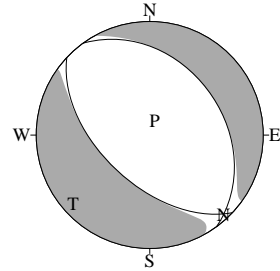
Cent.:40°37.7'N 141°24.9'E 85km  $\Delta t = 3.6$   
 Mo:  $7.35 \times 10^{16}$  N·m Mw:5.2 Mj:5.3 (sec)  
 mrr:-6.38 mtt: 6.82 mff:-0.45  
 mrt: 2.61 mrf: 1.17 mtf:-1.51 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1:116° 37° -67° P-axis:-7.18 134° 73°  
 NP2:267° 56° -107° T-axis: 7.52 9° 10°  
 N-axis:-0.34 277° 14°  
 V.R.: 83%  $\epsilon$ : 0.05 N:37 COMP:83

2022/07/25 23:41: 4.6  
 NW OFF OKINAWAJIMA IS  
 Hypo.:26°47.6'N 126°23.8'E 30km



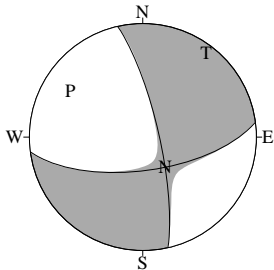
Cent.:26°39.6'N 126°24.0'E 10km  $\Delta t = 5.5$   
 Mo:  $4.82 \times 10^{16}$  N·m Mw:5.1 Mj:5.1 (sec)  
 mrr:-4.53 mtt: 4.28 mff: 0.25  
 mrt: 0.96 mrf:-0.21 mtf: 1.69 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 63° 40° -101° P-axis:-4.67 214° 82°  
 NP2:257° 50° -81° T-axis: 4.97 340° 5°  
 N-axis:-0.30 71° 7°  
 V.R.: 66%  $\epsilon$ : 0.06 N:10 COMP:20

2022/07/29 04:52:29.9  
 FAR E OFF IZU ISLANDS  
 Hypo.:32°34.7'N 142°24.6'E 69km



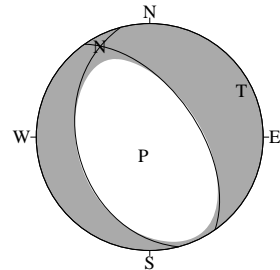
Cent.:32°58.2'N 142°24.6'E 10km  $\Delta t = 8.5$   
 Mo:  $1.30 \times 10^{17}$  N·m Mw:5.3 Mj:5.3 (sec)  
 mrr:-1.21 mtt: 0.52 mff: 0.68  
 mrt:-0.38 mrf: 0.25 mtf:-0.66 ( $\times 10^{17}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1:324° 35° -81° P-axis:-1.30 19° 79°  
 NP2:133° 55° -96° T-axis: 1.30 228° 10°  
 N-axis:-0.10 137° 5°  
 V.R.: 84%  $\epsilon$ : 0.04 N:35 COMP:88

2022/07/30 00:05:11.5  
 NE OFF HOKKAIDO  
 Hypo.:45°59.4'N 143°39.9'E 351km



Cent.:46° 0.0'N 143°40.0'E 352km  $\Delta t = 0.8$   
 Mo:  $1.93 \times 10^{16}$  N·m Mw:4.8 Mj:5.1 (sec)  
 mrr:-0.28 mtt: 0.74 mff:-0.46  
 mrt:-0.21 mrf:-0.82 mtf:-1.61 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 82° 66° -167° P-axis:-1.96 303° 25°  
 NP2:347° 78° -25° T-axis: 1.90 37° 8°  
 N-axis: 0.06 143° 63°  
 V.R.: 82%  $\epsilon$ :-0.03 N:11 COMP:23

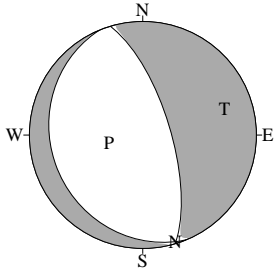
2022/07/30 03:00:56.8  
 FAR E OFF IZU ISLANDS  
 Hypo.:32°29.7'N 142°30.7'E 67km



Cent.:32°49.5'N 142°30.4'E 10km  $\Delta t = 8.4$   
 Mo:  $1.10 \times 10^{17}$  N·m Mw:5.3 Mj:5.2 (sec)  
 mrr:-1.04 mtt: 0.20 mff: 0.84  
 mrt: 0.35 mrf:-0.25 mtf:-0.37 ( $\times 10^{17}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1:325° 56° -102° P-axis:-1.10 199° 76°  
 NP2:165° 36° -73° T-axis: 1.10 63° 10°  
 N-axis: 0.10 331° 10°  
 V.R.: 85%  $\epsilon$ :-0.06 N:36 COMP:94

EQUAL AREA PROJECTION, LOWER HEMISPHERE.

2022/07/30 04:49:35.0  
FAR E OFF IZU ISLANDS  
Hypo.:32°35.8'N 142°25.8'E 66km



Cent.:32°37.6'N 142°30.0'E 10km  $\Delta t = 0.9$   
Mo:  $8.35 \times 10^{16} \text{N}\cdot\text{m}$  Mw:5.2 Mj:5.3 (sec)  
mrr:-5.34 mtt: 0.55 mff: 4.79  
mrt: 1.73 mrf:-6.15 mtf:-1.72 ( $\times 10^{16} \text{N}\cdot\text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1:343° 70° -88° P-axis:-8.32 257° 65°  
NP2:157° 20° -96° T-axis: 8.37 72° 25°  
N-axis:-0.05 163° 2°  
V.R.: 67%  $\epsilon$ : 0.01 N:38 COMP:93

EQUAL AREA PROJECTON, LOWER HEMISPHERE.