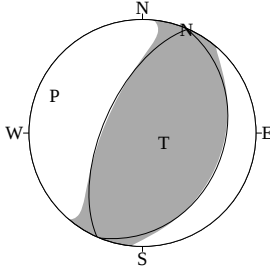


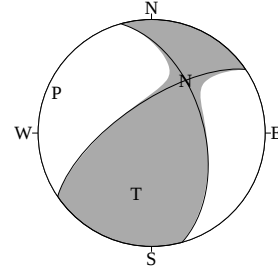
CMT SOLUTIONS FOR EARTHQUAKES IN DECEMBER, 2023

2023/12/01 12:52:13.5
SE OFF MIYAGI PREF
Hypo.:37°57.3'N 141°45.1'E 57km



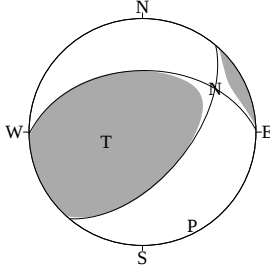
Cent.:37°57.3'N 141°45.0'E 57km $\Delta t = 0.5$
Mo: 6.49×10^{15} N·m Mw:4.5 Mj:4.5 (sec)
mrr: 5.16 mtt:-0.40 mff:-4.76
mrt:-1.45 mrf:-3.23 mtf:-2.26 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 22° 28° 89° P-axis:-6.77 293° 17°
NP2:204° 62° 91° T-axis: 6.22 115° 73°
N-axis: 0.55 23° 1°
V.R.: 78% ϵ :-0.08 N:16 COMP:21

2023/12/09 16:03:45.4
SE OFF BOSO PENINSULA
Hypo.:34°30.6'N 140°15.6'E 64km



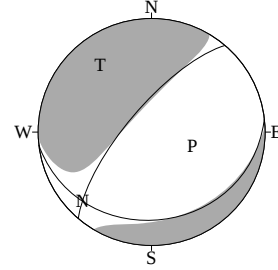
Cent.:34°30.6'N 140°16.6'E 64km $\Delta t = 0.5$
Mo: 8.04×10^{15} N·m Mw:4.5 Mj:4.6 (sec)
mrr: 3.79 mtt: 2.64 mff:-6.44
mrt:-4.22 mrf:-0.42 mtf:-3.91 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:344° 52° 28° P-axis:-8.21 293° 10°
NP2:236° 68° 138° T-axis: 7.87 194° 44°
N-axis: 0.35 33° 44°
V.R.: 69% ϵ :-0.04 N:33 COMP:57

2023/12/10 09:49:22.3
IOTO ISLANDS REGION
Hypo.:25° 2.7'N 140°48.1'E 153km



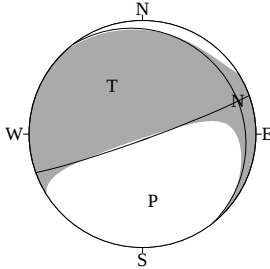
Cent.:24°54.4'N 141° 7.9'E 188km $\Delta t = 1.8$
Mo: 1.90×10^{16} N·m Mw:4.8 Mj:5.2 (sec)
mrr: 1.50 mtt:-1.43 mff:-0.07
mrt:-0.04 mrf: 0.90 mtf:-0.82 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 40° 57° 58° P-axis:-1.85 152° 7°
NP2:269° 45° 129° T-axis: 1.95 255° 63°
N-axis:-0.10 59° 26°
V.R.: 72% ϵ : 0.05 N:38 COMP:49

2023/12/16 18:50:57.4
MARIANA ISLANDS REGION
Hypo.:20°31.9'N 145°38.5'E 0km



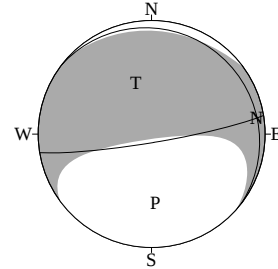
Cent.:20°40.3'N 145°40.2'E 10km $\Delta t = 11.3$
Mo: 4.40×10^{17} N·m Mw:5.7 Mj:6.3 (sec)
mrr:-2.21 mtt: 2.03 mff: 0.18
mrt: 2.12 mrf: 2.75 mtf: 1.76 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 84° 23° -49° P-axis:-4.10 108° 59°
NP2:220° 73° -106° T-axis: 4.70 323° 26°
N-axis:-0.50 225° 15°
V.R.: 70% ϵ : 0.11 N:14 COMP:26

2023/12/21 20:29:51.4
E OFF BOSO PENINSULA
Hypo.:35°14.0'N 141° 8.9'E 11km



Cent.:35°14.0'N 141° 9.2'E 10km $\Delta t = 0.6$
Mo: 1.43×10^{16} N·m Mw:4.7 Mj:4.8 (sec)
mrr: 0.13 mtt:-0.42 mff: 0.29
mrt: 1.32 mrf: 0.45 mtf: 0.10 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 70° 86° 78° P-axis:-1.51 171° 40°
NP2:322° 13° 161° T-axis: 1.36 328° 48°
N-axis: 0.15 71° 12°
V.R.: 63% ϵ :-0.10 N:15 COMP:25

2023/12/21 23:04:13.5
E OFF BOSO PENINSULA
Hypo.:35°14.0'N 141° 9.0'E 3km

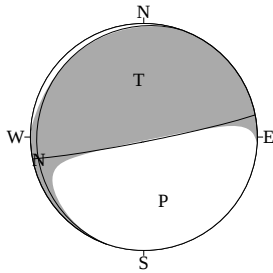


Cent.:35°18.2'N 141° 8.7'E 17km $\Delta t = 5.7$
Mo: 1.00×10^{17} N·m Mw:5.3 Mj:5.4 (sec)
mrr: 0.12 mtt:-0.34 mff: 0.23
mrt: 0.98 mrf: 0.14 mtf: 0.03 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 81° 84° 83° P-axis:-1.10 177° 39°
NP2:308° 9° 137° T-axis: 0.90 343° 51°
N-axis: 0.20 81° 7°
V.R.: 60% ϵ :-0.18 N:13 COMP:21

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

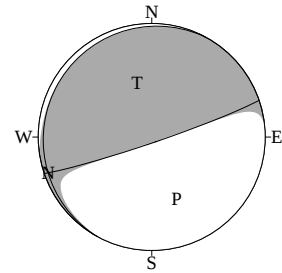
Hypo.:Location of hypocenter, Cent.:Location of centroid, Δt :Centroid time minus origin time
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude
mrr,mtt,mff,mrf,mtf:Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane
MOM,AZM,PLG:Moment tensor component, azimuth and plunge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

2023/12/21 23:17:26.5
E OFF BOSO PENINSULA
Hypo.:35°13.7'N 141° 7.7'E 9km



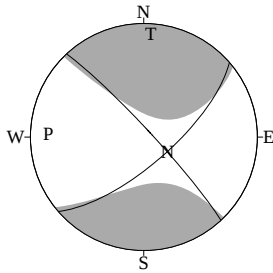
Cent.:35°13.7'N 141° 8.2'E 10km $\Delta t = 0.6$
Mo: 1.28×10^{16} N·m Mw:4.7 Mj:4.5 (sec)
mrr: 0.11 mtt:-0.13 mff: 0.02
mrt: 1.24 mrf: 0.25 mtf:-0.17 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 79° 87° 96° P-axis:-1.32 163° 41°
NP2:199° 7° 31° T-axis: 1.24 355° 48°
N-axis: 0.08 258° 6°
V.R.: 49% ϵ :-0.06 N:13 COMP:20

2023/12/22 05:45:24.5
E OFF BOSO PENINSULA
Hypo.:35°14.5'N 141° 6.9'E 9km



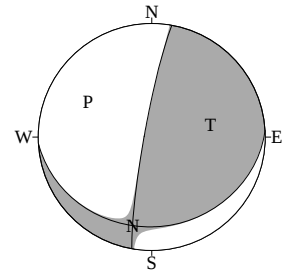
Cent.:35° 9.3'N 141° 7.2'E 10km $\Delta t = 1.2$
Mo: 4.86×10^{16} N·m Mw:5.1 Mj:5.1 (sec)
mrr: 0.61 mtt:-0.48 mff:-0.12
mrt: 4.54 mrf: 1.54 mtf:-0.54 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 71° 86° 94° P-axis:-4.94 158° 41°
NP2:209° 6° 48° T-axis: 4.77 345° 49°
N-axis: 0.17 251° 4°
V.R.: 63% ϵ :-0.03 N:15 COMP:28

2023/12/22 10:45:55.8
E OFF IWATE PREF
Hypo.:39°58.6'N 142°21.5'E 14km



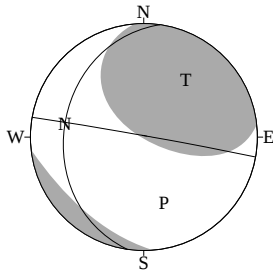
Cent.:39°58.6'N 142°21.4'E 14km $\Delta t = 0.5$
Mo: 6.07×10^{15} N·m Mw:4.5 Mj:4.9 (sec)
mrr:-1.33 mtt: 6.39 mff:-5.06
mrt: 1.23 mrf:-1.33 mtf:-0.70 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 49° 71°-174° P-axis:-5.49 272° 17°
NP2:317° 85° -19° T-axis: 6.65 4° 9°
N-axis:-1.16 122° 70°
V.R.: 76% ϵ : 0.17 N:21 COMP:29

2023/12/25 13:49: 0.7
FAR S OFF TOKAI DISTRICT
Hypo.:33°11.1'N 137°57.5'E 340km



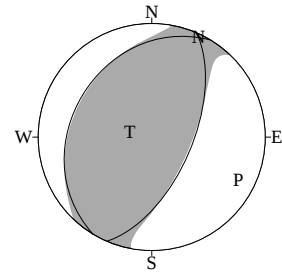
Cent.:33°15.6'N 137°56.3'E 343km $\Delta t = 1.7$
Mo: 3.06×10^{16} N·m Mw:4.9 Mj:4.8 (sec)
mrr: 0.52 mtt:-0.36 mff:-0.16
mrt:-0.42 mrf:-2.77 mtf:-1.15 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 87° 22° 165° P-axis:-3.09 299° 36°
NP2:190° 85° 69° T-axis: 3.04 78° 46°
N-axis: 0.06 192° 21°
V.R.: 85% ϵ :-0.02 N:36 COMP:44

2023/12/26 15:30:55.0
NEAR TORISHIMA IS
Hypo.:30°24.6'N 138°56.6'E 455km



Cent.:30°27.4'N 138°55.2'E 454km $\Delta t = 0.5$
Mo: 3.03×10^{16} N·m Mw:4.9 Mj:5.2 (sec)
mrr: 0.10 mtt: 0.30 mff:-0.39
mrt: 2.40 mrf:-1.44 mtf:-1.77 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:188° 30° -2° P-axis:-2.25 163° 39°
NP2:280° 89°-120° T-axis: 3.82 36° 37°
N-axis:-1.57 280° 30°
V.R.: 82% ϵ : 0.41 N:15 COMP:20

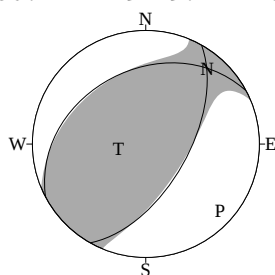
2023/12/27 07:53:57.0
S OFF URAKAWA
Hypo.:41°55.2'N 142°19.4'E 70km



Cent.:41°53.2'N 142°19.7'E 71km $\Delta t = 0.9$
Mo: 1.79×10^{16} N·m Mw:4.8 Mj:4.6 (sec)
mrr: 1.44 mtt:-0.21 mff:-1.23
mrt: 0.33 mrf: 0.88 mtf:-0.70 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 23° 61° 86° P-axis:-1.86 116° 16°
NP2:211° 29° 97° T-axis: 1.72 283° 74°
N-axis: 0.14 25° 3°
V.R.: 84% ϵ :-0.08 N:15 COMP:20

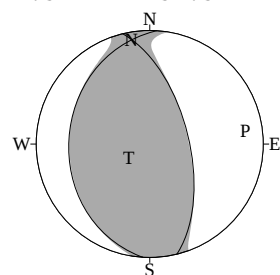
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2023/12/28 18:15:13.2
SE OFF ETOROFU
Hypo.:44°36.1'N 149° 9.2'E 30km



Cent.:44° 6.3'N 149° 8.8'E 40km $\Delta t=11.0$
Mo: 6.73×10^{18} N·m Mw:6.5 Mj:6.6 (sec)
mrr: 5.35 mtt:-2.65 mff:-2.69
mrt: 0.81 mrf: 3.06 mtf:-3.76 ($\times 10^{18}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 29° 59° 72° P-axis:-7.05 132° 13°
NP2:242° 35° 118° T-axis: 6.40 260° 70°
N-axis: 0.65 39° 15°
V.R.: 85% ϵ :-0.09 N:12 COMP:33

2023/12/29 13:38:55.4
E OFF HACHIJOJIMA ISLAND
Hypo.:32°22.5'N 141°52.5'E 75km



Cent.:32°23.2'N 141°53.8'E 10km $\Delta t= 0.7$
Mo: 1.96×10^{16} N·m Mw:4.8 Mj:4.5 (sec)
mrr: 1.57 mtt: 0.10 mff:-1.67
mrt:-0.37 mrf: 1.01 mtf: 0.17 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:346° 62° 82° P-axis:-2.00 82° 16°
NP2:184° 29° 105° T-axis: 1.91 237° 72°
N-axis: 0.08 350° 7°
V.R.: 80% ϵ :-0.04 N:31 COMP:55

EQUAL AREA PROJECTON, LOWER HEMISPHERE.