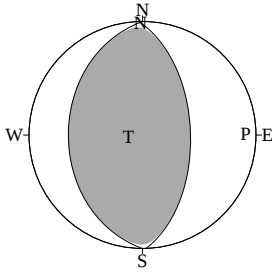


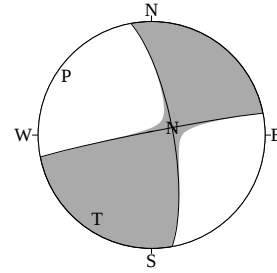
CMT SOLUTIONS FOR EARTHQUAKES IN SEPTEMBER, 2023

2023/09/05 13:27:16.3
NORTHERN CHIBA PREF
Hypo.:35°48.1'N 140° 7.5'E 72km



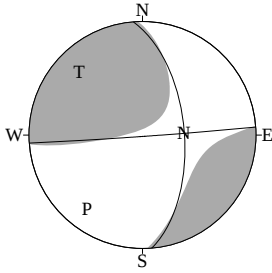
Cent.:35°46.8'N 140° 7.6'E 65km $\Delta t = 5.8$
Mo: 2.86×10^{16} N·m Mw:4.9 Mj:4.6 (sec)
mrr: 2.69 mtt: -0.02 mff: -2.67
mrt: -0.06 mrf: 0.99 mtf: 0.04 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:358° 55° 89° P-axis: -2.85 89° 10°
NP2:180° 35° 92° T-axis: 2.87 264° 80°
N-axis: -0.02 359° 1°
V.R.: 82% ϵ : 0.01 N:42 COMP:82

2023/09/05 18:30:39.1
TAIWAN REGION
Hypo.:23°28.9'N 120°17.7'E 4km



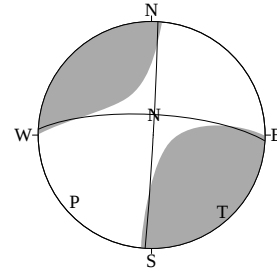
Cent.:23°28.8'N 120°17.4'E 10km $\Delta t = 2.5$
Mo: 3.51×10^{16} N·m Mw:5.0 Mj:5.2 (sec)
mrr: 0.16 mtt: 1.16 mff: -1.32
mrt: -0.93 mrf: -0.07 mtf: -3.15 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:259° 87° 165° P-axis: -3.55 305° 9°
NP2:350° 75° 3° T-axis: 3.47 213° 13°
N-axis: 0.09 70° 74°
V.R.: 74% ϵ : -0.02 N:5 COMP:12

2023/09/09 00:23:58.1
NEAR TOKARA ISLANDS
Hypo.:29°19.5'N 129°23.1'E 18km



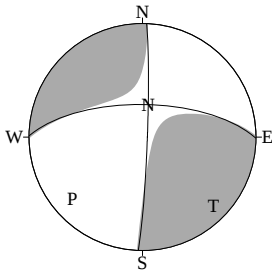
Cent.:29° 7.6'N 129°23.3'E 16km $\Delta t = 1.6$
Mo: 1.50×10^{16} N·m Mw:4.7 Mj:4.5 (sec)
mrr: -0.11 mtt: -0.10 mff: 0.21
mrt: 0.75 mrf: 0.22 mtf: 1.29 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:355° 60° 179° P-axis: -1.39 217° 20°
NP2: 86° 89° 30° T-axis: 1.61 315° 22°
N-axis: -0.22 87° 60°
V.R.: 82% ϵ : 0.14 N:29 COMP:43

2023/09/09 02:28:51.5
NEAR TOKARA ISLANDS
Hypo.:29°19.0'N 129°23.4'E 15km



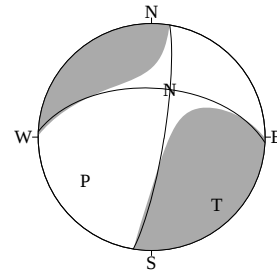
Cent.:29°15.9'N 129°23.6'E 11km $\Delta t = 4.3$
Mo: 3.98×10^{16} N·m Mw:5.0 Mj:4.9 (sec)
mrr: -0.67 mtt: 0.71 mff: -0.05
mrt: -0.23 mrf: -0.98 mtf: 3.84 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 3° 89° -165° P-axis: -3.64 229° 11°
NP2:273° 75° -1° T-axis: 4.33 137° 9°
N-axis: -0.69 8° 75°
V.R.: 86% ϵ : 0.16 N:30 COMP:43

2023/09/09 03:08:13.4
NEAR TOKARA ISLANDS
Hypo.:29°19.0'N 129°20.3'E 19km



Cent.:29°14.2'N 129°20.7'E 10km $\Delta t = 4.4$
Mo: 5.78×10^{16} N·m Mw:5.1 Mj:5.1 (sec)
mrr: -0.65 mtt: 0.52 mff: 0.13
mrt: -0.03 mrf: -2.25 mtf: 5.31 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:271° 67° -4° P-axis: -5.54 229° 19°
NP2: 2° 86° -157° T-axis: 6.02 134° 14°
N-axis: -0.49 10° 66°
V.R.: 83% ϵ : 0.08 N:29 COMP:71

2023/09/10 14:28:33.0
NEAR TOKARA ISLANDS
Hypo.:29°18.4'N 129°21.2'E 19km

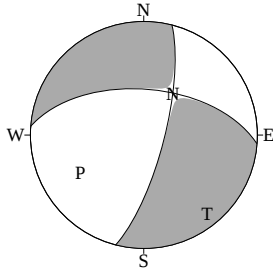


Cent.:29°15.7'N 129°21.0'E 11km $\Delta t = 5.4$
Mo: 3.49×10^{16} N·m Mw:5.0 Mj:4.7 (sec)
mrr: -0.86 mtt: 0.91 mff: -0.06
mrt: -0.21 mrf: -1.87 mtf: 2.83 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 9° 81° -144° P-axis: -3.24 237° 31°
NP2:273° 54° -11° T-axis: 3.73 136° 18°
N-axis: -0.49 21° 53°
V.R.: 85% ϵ : 0.13 N:28 COMP:55

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

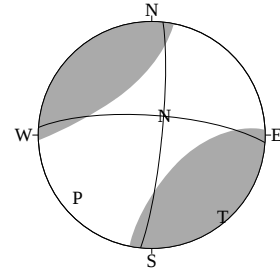
Hypo.:Location of hypocenter, Cent.:Location of centroid, Δt :Centroid time minus origin time
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude
mrr,mtt,mff,mrt,mrf,mtf:Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane
MOM,AZM,PLG:Moment tensor component, azimuth and plunge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

2023/09/11 00:01:59.7
NEAR TOKARA ISLANDS
Hypo.:29°18.7'N 129°23.3'E 18km



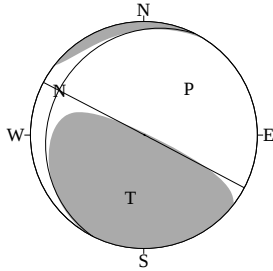
Cent.:29°16.6'N 129°23.3'E 13km $\Delta t = 6.6$
Mo: 1.40×10^{17} N·m Mw:5.4 Mj:5.3 (sec)
mrr:-0.41 mtt: 0.58 mff:-0.17
mrt: 0.11 mrf:-0.76 mtf: 1.11 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 14° 75° -146° P-axis:-1.40 239° 35°
NP2:274° 57° -18° T-axis: 1.40 141° 12°
N-axis: 0.00 35° 53°
V.R.: 80% ϵ : 0.01 N:31 COMP:83

2023/09/12 01:46:12.1
NEAR TOKARA ISLANDS
Hypo.:29°19.3'N 129°20.9'E 19km



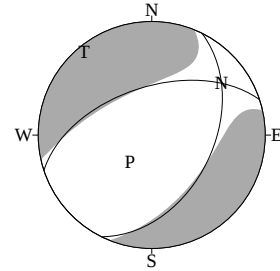
Cent.:29° 8.5'N 129°21.1'E 14km $\Delta t = 1.4$
Mo: 1.25×10^{16} N·m Mw:4.7 Mj:4.6 (sec)
mrr:-0.59 mtt: 0.48 mff: 0.11
mrt:-0.07 mrf:-0.19 mtf: 1.22 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 6° 82° -165° P-axis:-0.96 230° 16°
NP2:274° 75° -8° T-axis: 1.54 139° 5°
N-axis:-0.58 33° 73°
V.R.: 83% ϵ : 0.37 N:26 COMP:43

2023/09/12 20:03:18.6
FAR FIELD
Hypo.:19°43.1'N 121°14.0'E 0km



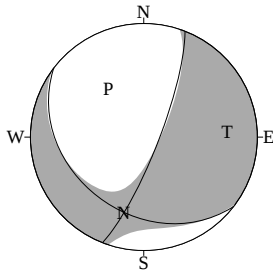
Cent.:19°41.2'N 121°13.9'E 29km $\Delta t = 8.9$
Mo: 4.48×10^{18} N·m Mw:6.4 Mj:6.4 (sec)
mrr: 0.24 mtt: 1.12 mff:-1.36
mrt:-3.90 mrf: 1.80 mtf: 0.45 ($\times 10^{18}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:298° 90° 73° P-axis:-4.22 44° 42°
NP2:207° 17° 179° T-axis: 4.73 192° 43°
N-axis:-0.52 298° 17°
V.R.: 79% ϵ : 0.11 N:10 COMP:28

2023/09/18 20:31: 9.9
NEAR TORISHIMA IS
Hypo.:29°43.4'N 139°17.6'E 462km



Cent.:29°49.9'N 139°16.7'E 463km $\Delta t = 0.5$
Mo: 3.40×10^{16} N·m Mw:5.0 Mj:5.2 (sec)
mrr:-2.62 mtt: 1.69 mff: 0.93
mrt: 1.08 mrf:-0.36 mtf: 2.29 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 26° 45° -126° P-axis:-3.12 219° 65°
NP2:252° 55° -60° T-axis: 3.69 321° 6°
N-axis:-0.57 53° 24°
V.R.: 88% ϵ : 0.15 N:30 COMP:47

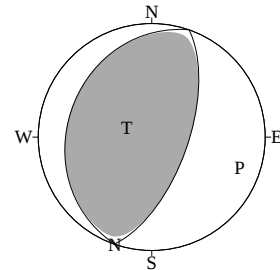
2023/09/18 22:21:22.5
NW OFF MIYAKOJIMA ISLAND
Hypo.:26°28.7'N 125°13.2'E 182km



Cent.:26° 7.8'N 125°15.7'E 190km $\Delta t = 5.3$
Mo: 3.89×10^{18} N·m Mw:6.3 Mj:6.5 (sec)
mrr:-1.23 mtt:-1.05 mff: 2.28
mrt:-1.71 mrf:-2.64 mtf:-1.20 ($\times 10^{18}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 21° 79° -57° P-axis:-4.07 324° 46°
NP2:128° 34° -161° T-axis: 3.71 86° 27°
N-axis: 0.36 195° 32°
V.R.: 69% ϵ :-0.09 N:25 COMP:68

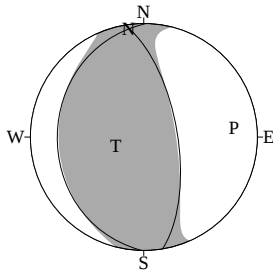
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2023/09/19 04:33: 4.4
KINKAZAN REGION
Hypo.:38°28.3'N 141°37.3'E 57km



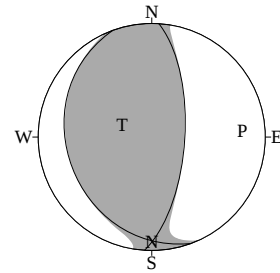
Cent.:38°30.3'N 141°37.3'E 67km $\Delta t = 3.0$
Mo: 2.10×10^{17} N·m Mw:5.5 Mj:5.6 (sec)
mrr: 1.65 mtt:-0.20 mff:-1.45
mrt: 0.42 mrf: 1.19 mtf:-0.49 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 19° 64° 90° P-axis:-2.00 109° 19°
NP2:199° 26° 90° T-axis: 2.10 290° 71°
N-axis: 0.00 199° 0°
V.R.: 79% ϵ : 0.02 N:38 COMP:77

2023/09/19 15:22:37.4
NEAR TORISHIMA IS
Hypo.:31° 0.8'N 142° 5.7'E 42km



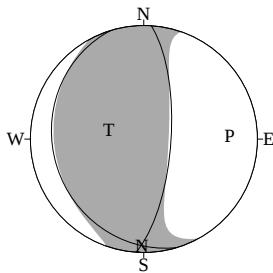
Cent.:31°13.2'N 142° 3.6'E 10km $\Delta t=11.6$
Mo: 5.80×10^{17} N·m Mw:5.8 Mj:6.1 (sec)
mrr: 4.09 mtt: 0.53 mff:-4.61
mrt:-0.76 mrf: 3.77 mtf: 0.43 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:351° 66° 86° P-axis:-6.10 84° 21°
NP2:181° 25° 100° T-axis: 5.60 252° 69°
N-axis: 0.50 352° 4°
V.R.: 80% ϵ :-0.09 N:22 COMP:57

2023/09/20 07:17:47.7
NEAR TORISHIMA IS
Hypo.:30°55.0'N 142° 2.9'E 44km



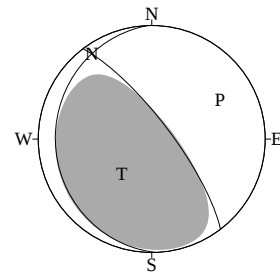
Cent.:30°56.9'N 142° 4.7'E 10km $\Delta t= 5.2$
Mo: 5.45×10^{16} N·m Mw:5.1 Mj:5.2 (sec)
mrr: 3.86 mtt: 0.32 mff:-4.17
mrt: 0.56 mrf: 3.59 mtf: 0.62 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 4° 66° 100° P-axis:-5.57 86° 21°
NP2:160° 26° 68° T-axis: 5.34 292° 67°
N-axis: 0.23 180° 9°
V.R.: 85% ϵ :-0.04 N:26 COMP:59

2023/09/22 06:22:12.0
NEAR TORISHIMA IS
Hypo.:30°57.7'N 141°51.7'E 28km



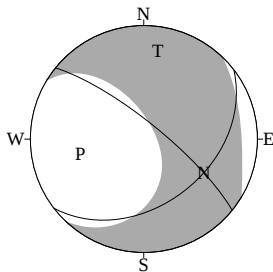
Cent.:31°21.2'N 141°51.1'E 10km $\Delta t=15.5$
Mo: 3.80×10^{17} N·m Mw:5.7 Mj:5.9 (sec)
mrr: 2.13 mtt: 0.51 mff:-2.64
mrt: 0.27 mrf: 2.88 mtf: 0.27 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 4° 70° 97° P-axis:-4.00 88° 25°
NP2:163° 21° 70° T-axis: 3.50 286° 64°
N-axis: 0.50 181° 7°
V.R.: 78% ϵ :-0.12 N:22 COMP:56

2023/09/23 01:33:15.9
NEAR TORISHIMA IS
Hypo.:30°54.6'N 142° 3.9'E 38km



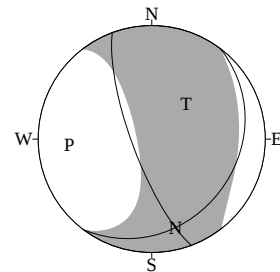
Cent.:30°54.5'N 142° 7.0'E 10km $\Delta t= 0.9$
Mo: 3.34×10^{16} N·m Mw:4.9 Mj:5.0 (sec)
mrr: 1.62 mtt:-0.19 mff:-1.43
mrt:-1.94 mrf: 2.23 mtf: 0.36 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:323° 77° 81° P-axis:-3.18 60° 31°
NP2:178° 16° 124° T-axis: 3.50 221° 57°
N-axis:-0.31 325° 9°
V.R.: 73% ϵ : 0.09 N:18 COMP:31

2023/09/25 12:37:59.2
SE OFF KII PENINSULA
Hypo.:33°51.2'N 137° 3.0'E 373km



Cent.:33°50.8'N 137° 3.0'E 374km $\Delta t= 0.6$
Mo: 1.13×10^{16} N·m Mw:4.6 Mj:4.7 (sec)
mrr:-0.30 mtt: 0.77 mff:-0.47
mrt: 0.35 mrf:-0.93 mtf: 0.17 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 52° 42°-162° P-axis:-1.38 257° 42°
NP2:309° 78° -50° T-axis: 0.89 9° 22°
N-axis: 0.49 119° 39°
V.R.: 83% ϵ :-0.35 N:23 COMP:27

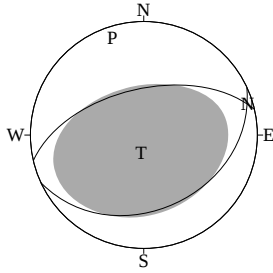
2023/09/26 08:39:22.2
SENDAI BAY REGION
Hypo.:38°18.3'N 141°10.1'E 77km



Cent.:38°18.3'N 141°10.8'E 77km $\Delta t= 0.5$
Mo: 6.63×10^{15} N·m Mw:4.5 Mj:4.6 (sec)
mrr: 2.13 mtt: 3.02 mff:-5.15
mrt: 1.23 mrf:-5.22 mtf: 0.05 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 37° 25° 145° P-axis:-7.91 266° 28°
NP2:160° 76° 69° T-axis: 5.35 44° 54°
N-axis: 2.56 165° 20°
V.R.: 77% ϵ :-0.32 N:41 COMP:62

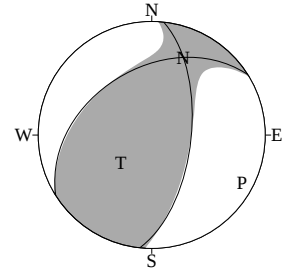
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2023/09/27 07:21:39.9
E OFF FUKUSHIMA PREF
Hypo.:37°32.5'N 141°29.3'E 55km



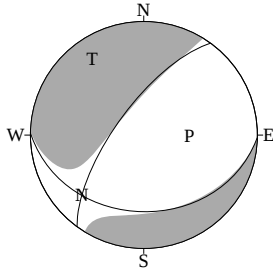
Cent.:37°32.5'N 141°29.5'E 55km $\Delta t = 0.5$
Mo: $7.93 \times 10^{15} \text{N} \cdot \text{m}$ Mw:4.5 Mj:4.9 (sec)
mrr: 7.97 mtt:-5.98 mff:-1.99
mrt:-3.18 mrf:-0.03 mtf:-1.66 ($\times 10^{15} \text{N} \cdot \text{m}$)
STR DIP SLIP MOM AZM PLG
NP1: 65° 34° 80° P-axis:-7.18 342° 11°
NP2:257° 57° 96° T-axis: 8.67 188° 77°
N-axis:-1.49 73° 5°
V.R.: 75% ϵ : 0.17 N:43 COMP:56

2023/09/29 02:40: 3.8
SE OFF ETOROFU
Hypo.:44°22.7'N 148°53.5'E 30km



Cent.:43°54.0'N 148°53.2'E 46km $\Delta t = 7.0$
Mo: $8.60 \times 10^{17} \text{N} \cdot \text{m}$ Mw:5.9 Mj:6.2 (sec)
mrr: 6.07 mtt:-0.54 mff:-5.53
mrt:-1.31 mrf: 4.08 mtf:-4.78 ($\times 10^{17} \text{N} \cdot \text{m}$)
STR DIP SLIP MOM AZM PLG
NP1: 6° 62° 59° P-axis:-9.00 118° 11°
NP2:238° 41° 134° T-axis: 8.30 228° 60°
N-axis: 0.70 22° 27°
V.R.: 89% ϵ :-0.08 N:12 COMP:31

2023/09/29 16:57:51.8
NORTHERN IBARAKI PREF
Hypo.:36°50.7'N 140°23.1'E 109km



Cent.:36°50.7'N 140°23.4'E 109km $\Delta t = 0.5$
Mo: $9.62 \times 10^{15} \text{N} \cdot \text{m}$ Mw:4.6 Mj:4.6 (sec)
mrr:-5.33 mtt: 5.66 mff:-0.33
mrt: 3.07 mrf: 5.76 mtf: 4.53 ($\times 10^{15} \text{N} \cdot \text{m}$)
STR DIP SLIP MOM AZM PLG
NP1: 91° 33° -39° P-axis:-9.11 91° 57°
NP2:216° 70° -117° T-axis:10.13 326° 20°
N-axis:-1.03 226° 25°
V.R.: 79% ϵ : 0.10 N:34 COMP:54

EQUAL AREA PROJECTON, LOWER HEMISPHERE.