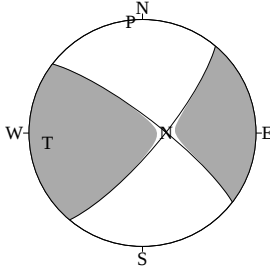


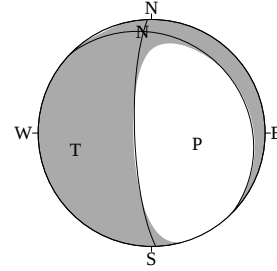
CMT SOLUTIONS FOR EARTHQUAKES IN OCTOBER, 2023

2023/10/03 20:38: 2.7
NEAR TORISHIMA IS
Hypo.:29°45.2'N 139°49.0'E 22km



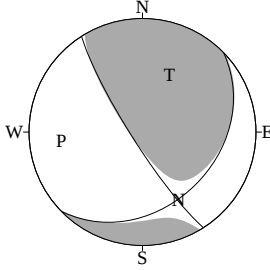
Cent.:30° 1.9'N 139°55.2'E 10km $\Delta t=11.3$
Mo: 1.11×10^{18} N·m Mw:6.0 Mj:6.4 (sec)
mrr: 0.08 mtt:-1.08 mff: 1.00
mrt:-0.06 mrf: 0.31 mtf:-0.23 ($\times 10^{18}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 40° 77° 11° P-axis:-1.11 354° 2°
NP2:308° 79° 167° T-axis: 1.12 264° 17°
N-axis:-0.01 89° 73°
V.R.: 65% ϵ : 0.01 N:14 COMP:37

2023/10/04 00:22:34.8
NEAR TORISHIMA IS
Hypo.:29°42.8'N 139°42.6'E 12km



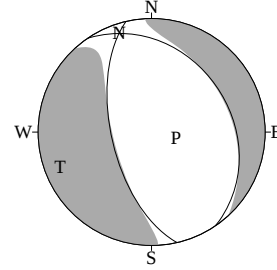
Cent.:30° 2.7'N 139°47.2'E 10km $\Delta t= 8.1$
Mo: 1.31×10^{18} N·m Mw:6.0 Mj:6.2 (sec)
mrr:-0.57 mtt: 0.11 mff: 0.46
mrt: 0.04 mrf: 1.17 mtf:-0.26 ($\times 10^{18}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:314° 17°-133° P-axis:-1.36 103° 56°
NP2:178° 78° -78° T-axis: 1.25 258° 32°
N-axis: 0.10 355° 11°
V.R.: 78% ϵ :-0.08 N:31 COMP:62

2023/10/04 04:16:56.8
W OFF OGASAWARA
Hypo.:28°21.8'N 139° 3.6'E 527km



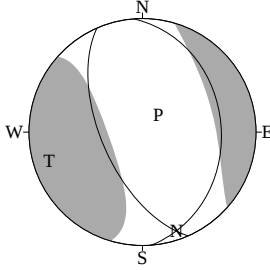
Cent.:28°35.5'N 139° 2.7'E 534km $\Delta t= 2.2$
Mo: 1.00×10^{17} N·m Mw:5.3 Mj:5.6 (sec)
mrr: 0.24 mtt: 0.42 mff:-0.66
mrt: 0.55 mrf:-0.63 mtf:-0.16 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 46° 35° 166° P-axis:-1.00 264° 29°
NP2:147° 82° 56° T-axis: 1.10 25° 43°
N-axis:-0.10 152° 33°
V.R.: 77% ϵ : 0.07 N:11 COMP:16

2023/10/04 05:32:39.3
NEAR TORISHIMA IS
Hypo.:30° 3.1'N 140°57.7'E 40km



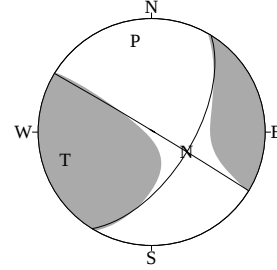
Cent.:29°57.8'N 140°49.6'E 10km $\Delta t= 1.3$
Mo: 7.82×10^{16} N·m Mw:5.2 Mj:5.5 (sec)
mrr:-6.18 mtt: 0.31 mff: 5.87
mrt:-0.40 mrf: 4.09 mtf:-2.87 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:326° 31°-109° P-axis:-7.47 102° 72°
NP2:167° 61° -79° T-axis: 8.18 249° 15°
N-axis:-0.71 342° 9°
V.R.: 50% ϵ : 0.09 N:19 COMP:37

2023/10/04 09:13:46.7
NEAR TORISHIMA IS
Hypo.:29°56.5'N 140°19.5'E 39km



Cent.:29°42.9'N 140°15.7'E 10km $\Delta t= 1.7$
Mo: 1.50×10^{17} N·m Mw:5.4 Mj:5.5 (sec)
mrr:-0.95 mtt:-0.47 mff: 1.42
mrt:-0.28 mrf: 0.67 mtf:-0.59 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:356° 31° -73° P-axis:-1.20 42° 73°
NP2:156° 60°-100° T-axis: 1.80 253° 15°
N-axis:-0.60 161° 9°
V.R.: 68% ϵ : 0.35 N:32 COMP:63

2023/10/04 11:19: 7.8
NEAR TORISHIMA IS
Hypo.:29°48.6'N 139°47.8'E 42km

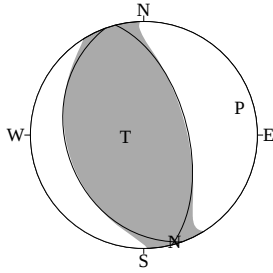


Cent.:29°52.2'N 139°50.4'E 10km $\Delta t= 6.7$
Mo: 2.60×10^{17} N·m Mw:5.5 Mj:5.7 (sec)
mrr:-0.16 mtt:-1.90 mff: 2.06
mrt:-0.96 mrf: 0.87 mtf:-1.08 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 32° 61° 1° P-axis:-2.40 350° 19°
NP2:301° 89° 151° T-axis: 2.80 252° 21°
N-axis:-0.30 119° 61°
V.R.: 78% ϵ : 0.12 N:33 COMP:80

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

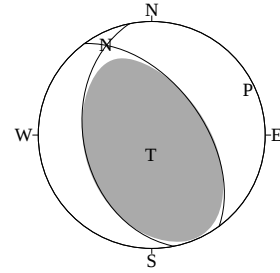
Hypo.:Location of hypocenter, Cent.:Location of centroid, Δt :Centroid time minus origin time
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude
mrr,mtt,mff,mrt,mrf,mtf:Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane
MOM,AZM,PLG:Moment tensor component, azimuth and plunge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

2023/10/04 13:55:47.7
NEAR TORISHIMA IS
Hypo.:31° 3.1'N 141°59.0'E 36km



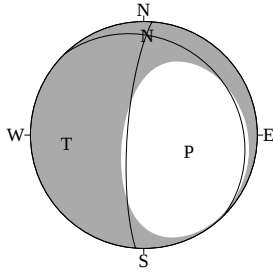
Cent.:31°26.8'N 141°59.6'E 10km $\Delta t = 9.5$
Mo: 2.50×10^{17} N·m Mw:5.5 Mj:5.8 (sec)
mrr:-2.11 mtt:-0.04 mff:-2.07
mrt:-0.22 mrf: 1.07 mtf: 0.68 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:346° 58° 93° P-axis:-2.50 74° 13°
NP2:160° 32° 86° T-axis: 2.40 264° 77°
N-axis: 0.20 164° 2°
V.R.: 72% ϵ :-0.06 N:34 COMP:66

2023/10/04 14:57:18.1
NEAR TORISHIMA IS
Hypo.:30°50.8'N 142°13.2'E 44km



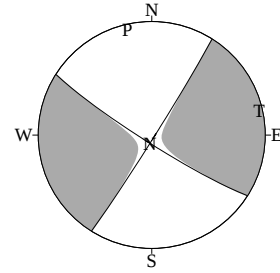
Cent.:31°21.6'N 142°11.8'E 10km $\Delta t = 11.7$
Mo: 2.50×10^{17} N·m Mw:5.5 Mj:5.9 (sec)
mrr: 2.41 mtt:-0.40 mff:-2.00
mrt:-0.78 mrf: 0.29 mtf: 0.86 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:324° 53° 74° P-axis:-2.40 65° 7°
NP2:169° 40° 110° T-axis: 2.60 183° 76°
N-axis:-0.20 333° 12°
V.R.: 80% ϵ : 0.06 N:13 COMP:32

2023/10/04 20:05:17.0
NEAR TORISHIMA IS
Hypo.:29°38.7'N 139°44.2'E 30km



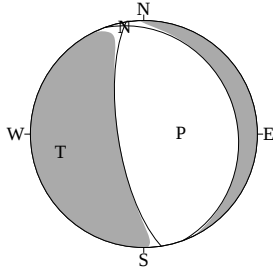
Cent.:29°45.6'N 139°50.1'E 10km $\Delta t = 0.9$
Mo: 1.30×10^{17} N·m Mw:5.4 Mj:5.5 (sec)
mrr:-0.67 mtt: 0.28 mff: 0.39
mrt: 0.26 mrf: 1.19 mtf:-0.27 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:316° 17°-137° P-axis:-1.50 110° 55°
NP2:184° 78° -77° T-axis: 1.20 264° 32°
N-axis: 0.30 2° 13°
V.R.: 79% ϵ :-0.23 N:30 COMP:53

2023/10/05 02:22:40.5
NEAR TORISHIMA IS
Hypo.:29°44.7'N 139°48.0'E 26km



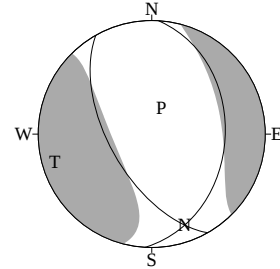
Cent.:29°51.3'N 139°51.0'E 15km $\Delta t = 6.9$
Mo: 6.09×10^{16} N·m Mw:5.1 Mj:5.4 (sec)
mrr:-0.19 mtt:-5.37 mff: 5.57
mrt:-0.48 mrf:-0.40 mtf:-2.61 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 32° 88° -6° P-axis:-6.02 347° 5°
NP2:122° 84°-178° T-axis: 6.17 77° 3°
N-axis:-0.15 192° 84°
V.R.: 79% ϵ : 0.02 N:30 COMP:68

2023/10/05 08:18:11.4
NEAR TORISHIMA IS
Hypo.:29°50.4'N 140° 7.9'E 42km



Cent.:29°59.0'N 140° 9.3'E 10km $\Delta t = 1.4$
Mo: 1.00×10^{17} N·m Mw:5.3 Mj:5.1 (sec)
mrr:-0.61 mtt: 0.01 mff: 0.60
mrt:-0.11 mrf: 0.82 mtf:-0.16 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:339° 19°-101° P-axis:-1.00 87° 63°
NP2:171° 72° -86° T-axis: 1.10 258° 26°
N-axis: 0.00 350° 4°
V.R.: 58% ϵ : 0.02 N:22 COMP:37

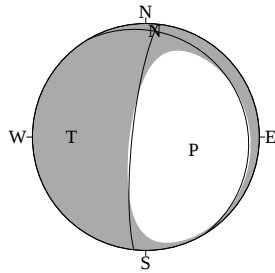
2023/10/05 10:59:56.9
NEAR TORISHIMA IS
Hypo.:29°43.1'N 139°46.3'E 17km



Cent.:29°52.0'N 139°53.7'E 10km $\Delta t = 6.0$
Mo: 1.75×10^{18} N·m Mw:6.1 Mj:6.5 (sec)
mrr:-1.25 mtt:-0.44 mff: 1.70
mrt:-0.44 mrf: 0.62 mtf:-0.62 ($\times 10^{18}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 4° 35° -62° P-axis:-1.48 20° 70°
NP2:151° 59°-108° T-axis: 2.02 254° 12°
N-axis:-0.54 160° 16°
V.R.: 72% ϵ : 0.27 N:13 COMP:17

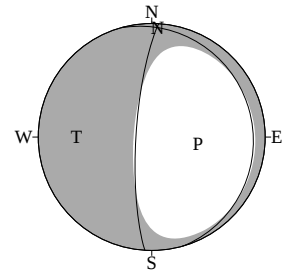
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2023/10/05 11:15:15.5
NEAR TORISHIMA IS
Hypo.:29°45.3'N 139°33.6'E 43km



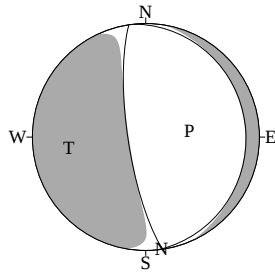
Cent.:30°13.8'N 139°39.1'E 10km $\Delta t = 8.3$
Mo: 2.50×10^{17} N·m Mw:5.5 Mj:5.0 (sec)
mrr:-0.96 mtt: 0.24 mff: 0.71
mrt: 0.35 mrf: 2.27 mtf:-0.25 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:330° 12°-126° P-axis:-2.60 105° 54°
NP2:186° 80° -83° T-axis: 2.30 270° 35°
N-axis: 0.30 5° 7°
V.R.: 65% ϵ :-0.12 N:30 COMP:47

2023/10/05 11:53:12.4
NEAR TORISHIMA IS
Hypo.:29°52.1'N 139°36.1'E 33km



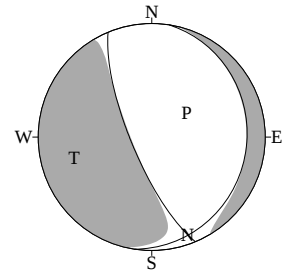
Cent.:30° 2.6'N 139°38.5'E 10km $\Delta t = 6.3$
Mo: 7.40×10^{17} N·m Mw:5.8 Mj:5.7 (sec)
mrr:-3.27 mtt: 0.85 mff: 2.42
mrt: 0.60 mrf: 6.77 mtf:-0.38 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:344° 12°-109° P-axis:-7.80 98° 56°
NP2:183° 79° -86° T-axis: 6.90 270° 34°
N-axis: 0.90 3° 4°
V.R.: 87% ϵ :-0.12 N:12 COMP:21

2023/10/05 15:22:12.4
NEAR TORISHIMA IS
Hypo.:29°55.3'N 139°39.6'E 31km



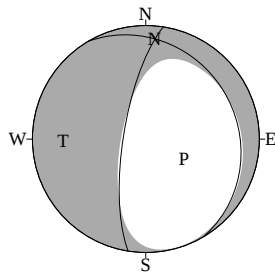
Cent.:30° 6.1'N 139°43.4'E 10km $\Delta t = 5.8$
Mo: 6.20×10^{17} N·m Mw:5.8 Mj:5.7 (sec)
mrr:-2.52 mtt:-0.24 mff: 2.76
mrt:-0.84 mrf: 5.53 mtf:-0.39 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:354° 13° -87° P-axis:-6.10 81° 58°
NP2:172° 77° -91° T-axis: 6.30 262° 32°
N-axis:-0.30 172° 1°
V.R.: 76% ϵ : 0.05 N:14 COMP:21

2023/10/06 10:31:29.9
NEAR TORISHIMA IS
Hypo.:29°40.3'N 139°28.4'E 19km



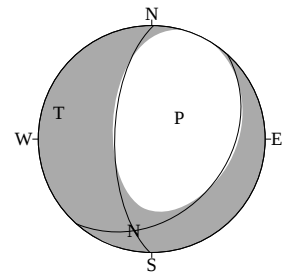
Cent.:30° 3.2'N 139°39.0'E 10km $\Delta t = 4.8$
Mo: 3.66×10^{18} N·m Mw:6.3 Mj:6.0 (sec)
mrr:-1.70 mtt:-0.29 mff: 1.99
mrt:-1.30 mrf: 2.86 mtf:-0.35 ($\times 10^{18}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 9° 17° -60° P-axis:-3.56 55° 59°
NP2:157° 75° -99° T-axis: 3.77 255° 30°
N-axis:-0.21 160° 9°
V.R.: 73% ϵ : 0.06 N:25 COMP:38

2023/10/06 14:49:20.6
NEAR TORISHIMA IS
Hypo.:30° 5.1'N 139°43.4'E 15km



Cent.:30°14.9'N 139°46.3'E 10km $\Delta t = 5.8$
Mo: 5.10×10^{17} N·m Mw:5.7 Mj:5.5 (sec)
mrr:-2.87 mtt: 0.26 mff: 2.61
mrt: 1.13 mrf: 4.05 mtf:-0.70 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:330° 20°-127° P-axis:-5.30 117° 59°
NP2:189° 74° -77° T-axis: 4.80 269° 28°
N-axis: 0.60 5° 12°
V.R.: 83% ϵ :-0.11 N:6 COMP:11

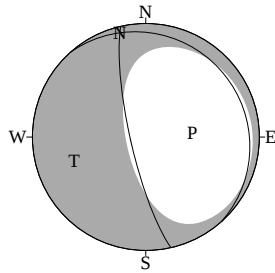
2023/10/06 22:15:27.4
NEAR TORISHIMA IS
Hypo.:30° 3.8'N 139°43.4'E 25km



Cent.:30° 2.4'N 139°46.3'E 10km $\Delta t = 3.3$
Mo: 4.70×10^{16} N·m Mw:5.0 Mj:5.1 (sec)
mrr:-3.74 mtt: 0.56 mff: 3.18
mrt:-1.02 mrf: 2.67 mtf: 1.42 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 42° 34° -54° P-axis:-5.02 53° 65°
NP2:181° 63°-111° T-axis: 4.38 286° 16°
N-axis: 0.65 191° 19°
V.R.: 84% ϵ :-0.13 N:15 COMP:26

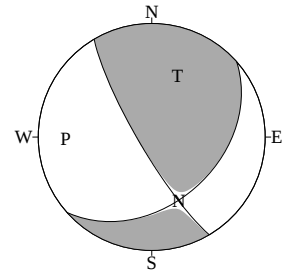
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2023/10/08 14:36:35.8
NEAR TORISHIMA IS
Hypo.:29°49.3'N 139°58.8'E 47km



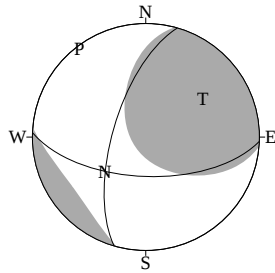
Cent.:29°49.9'N 139°59.3'E 10km $\Delta t = 0.9$
Mo: 6.74×10^{16} N·m Mw:5.2 Mj:5.4 (sec)
mrr:-3.30 mtt: 1.86 mff: 1.44
mrt:-1.00 mrf: 6.15 mtf:-0.62 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:318° 13° -118° P-axis:-7.55 85° 56°
NP2:167° 79° -84° T-axis: 5.94 252° 34°
N-axis: 1.60 346° 6°
V.R.: 75% ϵ : -0.21 N:31 COMP:52

2023/10/09 14:09:40.5
NEAR KUNASHIRI ISLAND
Hypo.:44°28.9'N 146°22.5'E 175km



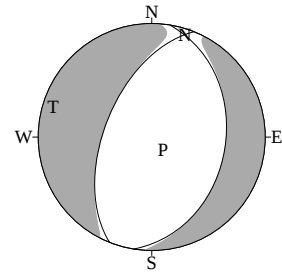
Cent.:44°29.7'N 146°22.3'E 176km $\Delta t = 0.8$
Mo: 1.10×10^{17} N·m Mw:5.3 Mj:5.5 (sec)
mrr: 0.27 mtt: 0.53 mff:-0.80
mrt: 0.51 mrf:-0.62 mtf:-0.22 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 48° 41° 165° P-axis:-1.10 269° 25°
NP2:150° 81° 50° T-axis: 1.10 23° 41°
N-axis: 0.00 157° 39°
V.R.: 85% ϵ : 0.01 N:24 COMP:55

2023/10/11 19:36:55.4
TAIWAN REGION
Hypo.:23°13.6'N 121°28.3'E 3km



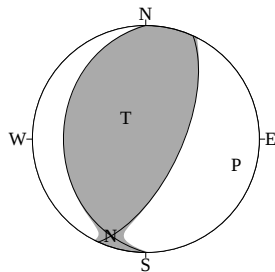
Cent.:23°21.0'N 121°26.9'E 17km $\Delta t = 6.2$
Mo: 9.91×10^{16} N·m Mw:5.3 Mj:5.1 (sec)
mrr: 2.41 mtt:-3.56 mff: 1.15
mrt: 3.92 mrf:-6.17 mtf:-6.58 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 92° 62° 153° P-axis:-8.21 323° 3°
NP2:196° 66° 31° T-axis:11.60 56° 39°
N-axis:-3.38 230° 51°
V.R.: 75% ϵ : 0.29 N:8 COMP:17

2023/10/13 18:59:51.8
TSUGARU PENINSULA REGION
Hypo.:41° 3.7'N 140°14.6'E 171km



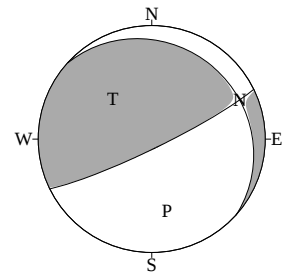
Cent.:41° 3.2'N 140°14.5'E 177km $\Delta t = 1.4$
Mo: 2.46×10^{16} N·m Mw:4.9 Mj:5.0 (sec)
mrr:-2.25 mtt: 0.08 mff: 2.16
mrt: 0.48 mrf: 0.76 mtf: 0.63 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 9° 35° -100° P-axis:-2.43 137° 78°
NP2:202° 56° -83° T-axis: 2.50 287° 10°
N-axis:-0.07 18° 6°
V.R.: 83% ϵ : 0.03 N:32 COMP:49

2023/10/14 11:29:24.9
E OFF AOMORI PREF
Hypo.:41°30.7'N 142° 5.0'E 54km



Cent.:41°30.9'N 142° 5.3'E 55km $\Delta t = 2.0$
Mo: 3.44×10^{16} N·m Mw:5.0 Mj:4.7 (sec)
mrr: 2.62 mtt: 0.05 mff:-2.67
mrt: 1.13 mrf: 1.78 mtf:-0.63 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 25° 64° 101° P-axis:-3.47 106° 18°
NP2:180° 28° 68° T-axis: 3.41 317° 69°
N-axis: 0.06 200° 10°
V.R.: 80% ϵ : -0.02 N:35 COMP:55

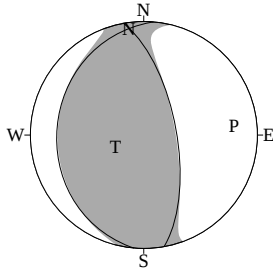
2023/10/14 16:53:30.6
TAIWAN REGION
Hypo.:23°55.4'N 122°18.3'E 21km



Cent.:24° 6.7'N 122°18.0'E 13km $\Delta t = 3.9$
Mo: 7.47×10^{16} N·m Mw:5.2 Mj:5.2 (sec)
mrr: 1.70 mtt:-2.99 mff: 1.29
mrt: 6.14 mrf: 3.30 mtf: 0.66 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 64° 83° 74° P-axis:-7.44 168° 36°
NP2:312° 18° 157° T-axis: 7.50 316° 49°
N-axis:-0.06 66° 16°
V.R.: 63% ϵ : 0.01 N:6 COMP:12

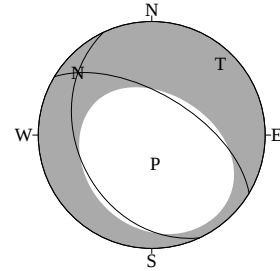
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2023/10/15 18:13:24.8
 FAR SE OFF BOSO PEN
 Hypo.:33°52.9'N 141°50.5'E 0km



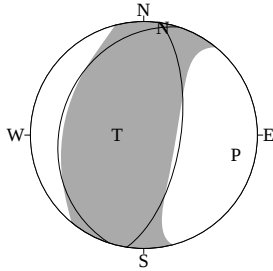
Cent.:33°59.4'N 141°49.2'E 10km $\Delta t = 9.4$
 Mo: 6.09×10^{16} N·m Mw:5.1 Mj:5.5 (sec)
 mrr: 4.25 mtt: 0.43 mff:-4.68
 mrt:-0.94 mrf: 4.02 mtf: 0.29 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:350° 66° 84° P-axis:-6.28 84° 21°
 NP2:185° 24° 104° T-axis: 5.90 248° 68°
 N-axis: 0.37 352° 6°
 V.R.: 81% ϵ :-0.06 N:35 COMP:73

2023/10/16 19:42:10.9
 NEAR MIYAKOJIMA ISLAND
 Hypo.:25°10.2'N 125°34.9'E 33km



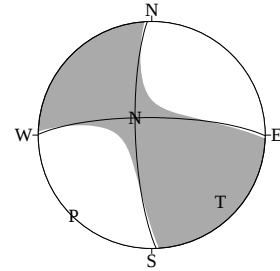
Cent.:25°21.7'N 125°33.9'E 17km $\Delta t = 3.3$
 Mo: 4.40×10^{17} N·m Mw:5.7 Mj:6.0 (sec)
 mrr:-4.10 mtt: 1.68 mff: 2.43
 mrt: 2.54 mrf:-0.10 mtf:-1.21 ($\times 10^{17}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:155° 34° -61° P-axis:-5.10 173° 69°
 NP2:301° 60° -108° T-axis: 3.70 44° 14°
 N-axis: 1.40 310° 16°
 V.R.: 86% ϵ :-0.27 N:9 COMP:22

2023/10/19 07:15: 6.8
 NEAR TORISHIMA IS
 Hypo.:30°53.9'N 141°28.4'E 47km



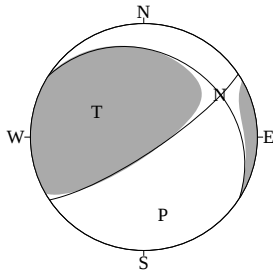
Cent.:31° 3.8'N 141°31.1'E 24km $\Delta t = 7.7$
 Mo: 5.55×10^{16} N·m Mw:5.1 Mj:5.1 (sec)
 mrr: 3.78 mtt: 1.05 mff:-4.83
 mrt: 0.45 mrf: 3.29 mtf:-1.35 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 9° 63° 86° P-axis:-6.22 102° 18°
 NP2:198° 27° 98° T-axis: 4.89 270° 71°
 N-axis: 1.33 10° 4°
 V.R.: 86% ϵ :-0.21 N:31 COMP:74

2023/10/19 12:51:57.5
 NEAR OKINAWAJIMA ISLAND
 Hypo.:25°59.1'N 128°31.3'E 41km



Cent.:25°53.5'N 128°30.7'E 10km $\Delta t = 1.3$
 Mo: 2.22×10^{16} N·m Mw:4.8 Mj:5.0 (sec)
 mrr: 0.39 mtt:-0.27 mff:-0.13
 mrt:-0.35 mrf:-0.40 mtf: 2.14 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:270° 78° 12° P-axis:-2.34 224° 1°
 NP2:178° 78° 167° T-axis: 2.11 134° 17°
 N-axis: 0.23 316° 73°
 V.R.: 80% ϵ :-0.10 N:15 COMP:26

2023/10/24 08:05:25.1
 NW OFF ISHIGAKIJIMA IS
 Hypo.:23°59.4'N 122°35.5'E 33km



Cent.:24°13.5'N 122°34.5'E 29km $\Delta t = 6.8$
 Mo: 1.04×10^{18} N·m Mw:5.9 Mj:5.9 (sec)
 mrr: 0.39 mtt:-0.62 mff: 0.24
 mrt: 0.66 mrf: 0.59 mtf: 0.03 ($\times 10^{18}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 56° 79° 66° P-axis:-1.00 166° 30°
 NP2:302° 27° 154° T-axis: 1.08 299° 51°
 N-axis:-0.08 61° 24°
 V.R.: 62% ϵ : 0.07 N:7 COMP:18

EQUAL AREA PROJECTON, LOWER HEMISPHERE.