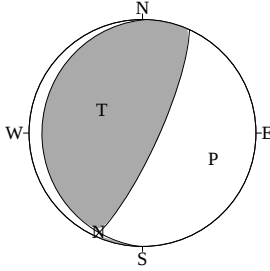


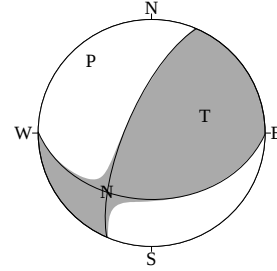
CMT SOLUTIONS FOR EARTHQUAKES IN AUGUST, 2023

2023/08/01 06:12:48.1
FAR E OFF SANRIKU
Hypo.:39°33.5'N 143°25.7'E 12km



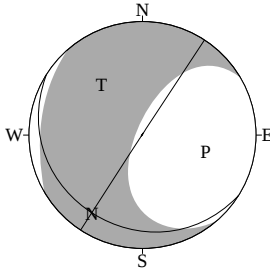
Cent.:39°33.4'N 143°25.9'E 12km $\Delta t = 0.6$
Mo: 1.34×10^{16} N·m Mw:4.7 Mj:4.8 (sec)
mrr: 0.52 mtt: -0.01 mff: -0.51
mrt: 0.53 mrf: 1.11 mtf: -0.12 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 24° 79° 95° P-axis: -1.34 110° 34°
NP2: 182° 12° 68° T-axis: 1.34 300° 56°
N-axis: 0.00 204° 5°
V.R.: 72% ϵ : 0.00 N:28 COMP:46

2023/08/01 22:07:20.2
NORTHERN AKITA PREF
Hypo.:40°12.7'N 140°36.4'E 121km



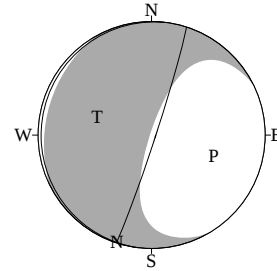
Cent.:40°17.8'N 140°36.3'E 122km $\Delta t = 0.9$
Mo: 1.38×10^{16} N·m Mw:4.7 Mj:4.5 (sec)
mrr: 0.66 mtt: -0.67 mff: 0.01
mrt: -0.13 mrf: -0.89 mtf: -0.81 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 91° 41° 151° P-axis: -1.40 320° 18°
NP2: 203° 72° 53° T-axis: 1.36 72° 49°
N-axis: 0.04 217° 35°
V.R.: 76% ϵ : -0.03 N:26 COMP:41

2023/08/07 03:12:44.4
SE OFF OSUMI PEN
Hypo.:30°46.0'N 131°28.7'E 43km



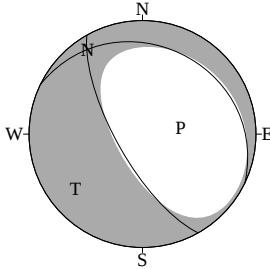
Cent.:30°47.7'N 131°28.5'E 15km $\Delta t = 4.1$
Mo: 2.20×10^{17} N·m Mw:5.5 Mj:5.4 (sec)
mrr: -0.36 mtt: 1.11 mff: -0.74
mrt: 0.74 mrf: 2.00 mtf: -0.31 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 213° 90° -109° P-axis: -2.70 105° 42°
NP2: 122° 19° -1° T-axis: 1.70 321° 42°
N-axis: 1.00 213° 19°
V.R.: 82% ϵ : -0.37 N:37 COMP:95

2023/08/07 03:32:21.5
SE OFF OSUMI PEN
Hypo.:30°46.6'N 131°30.2'E 37km



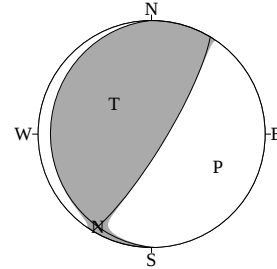
Cent.:30°42.0'N 131°29.4'E 11km $\Delta t = 1.2$
Mo: 2.59×10^{16} N·m Mw:4.9 Mj:4.7 (sec)
mrr: -0.10 mtt: 0.62 mff: -0.52
mrt: 0.79 mrf: 2.46 mtf: -0.38 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 187° 3° 79° P-axis: -2.96 108° 42°
NP2: 18° 87° 91° T-axis: 2.23 289° 48°
N-axis: 0.74 198° 1°
V.R.: 69% ϵ : -0.25 N:14 COMP:20

2023/08/07 13:48:18.6
E OFF FUKUSHIMA PREF
Hypo.:37°14.0'N 142°14.1'E 22km



Cent.:37°17.5'N 142°14.4'E 24km $\Delta t = 0.4$
Mo: 7.93×10^{15} N·m Mw:4.5 Mj:4.7 (sec)
mrr: -5.21 mtt: 3.10 mff: 2.11
mrt: -2.24 mrf: 5.81 mtf: -2.11 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 296° 22° -123° P-axis: -8.50 80° 62°
NP2: 151° 71° -77° T-axis: 7.36 231° 25°
N-axis: 1.14 327° 12°
V.R.: 74% ϵ : -0.13 N:32 COMP:46

2023/08/11 09:14:34.1
E OFF AOMORI PREF
Hypo.:41° 7.5'N 142°54.7'E 28km

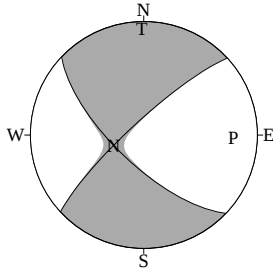


Cent.:41° 7.3'N 142°53.8'E 36km $\Delta t = 6.5$
Mo: 1.54×10^{18} N·m Mw:6.1 Mj:6.2 (sec)
mrr: 0.52 mtt: 0.02 mff: -0.54
mrt: 0.77 mrf: 1.22 mtf: -0.17 ($\times 10^{18}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 31° 80° 96° P-axis: -1.55 116° 35°
NP2: 179° 12° 58° T-axis: 1.54 309° 55°
N-axis: 0.02 210° 6°
V.R.: 61% ϵ : -0.01 N:28 COMP:63

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

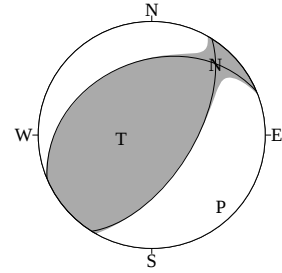
Hypo.: Location of hypocenter, Cent.: Location of centroid, Δt : Centroid time minus origin time
Mo: Total scalar moment, Mw: Moment Magnitude, Mj: JMA Magnitude
mrr, mtt, mff, mrt, mrf, mtf: Moment tensor components, STR, DIP, SLIP: Fault parameters of nodal plane
MOM, AZM, PLG: Moment tensor component, 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

2023/08/13 10:43: 9.9
PHILIPPINE ISL REGION
Hypo.:20°49.4'N 121°34.5'E 0km



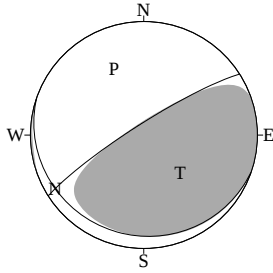
Cent.:20°28.2'N 121°34.5'E 54km $\Delta t = 2.1$
Mo: 1.80×10^{17} N·m Mw:5.4 Mj:5.5 (sec)
mrr:-0.19 mtt: 1.77 mff:-1.58
mrt: 0.25 mrf: 0.64 mtf:-0.03 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:227° 80° -159° P-axis:-1.80 92° 22°
NP2:134° 69° -10° T-axis: 1.80 359° 7°
N-axis: 0.00 251° 67°
V.R.: 74% ϵ :-0.02 N:7 COMP:18

2023/08/19 03:33: 5.3
HIDAKA MOUNTAINS REGION
Hypo.:42°21.1'N 143° 5.8'E 51km



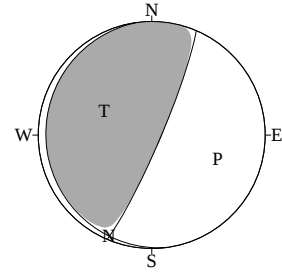
Cent.:42°15.7'N 143° 5.8'E 57km $\Delta t = 1.6$
Mo: 3.62×10^{16} N·m Mw:5.0 Mj:5.1 (sec)
mrr: 2.89 mtt:-1.73 mff:-1.16
mrt: 0.46 mrf: 1.76 mtf:-1.86 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 32° 60° 71° P-axis:-3.68 136° 13°
NP2:247° 35° 120° T-axis: 3.56 263° 68°
N-axis: 0.13 42° 17°
V.R.: 76% ϵ :-0.03 N:28 COMP:64

2023/08/19 23:21:10.8
NEAR KUNASHIRI ISLAND
Hypo.:43°35.6'N 146° 6.5'E 76km



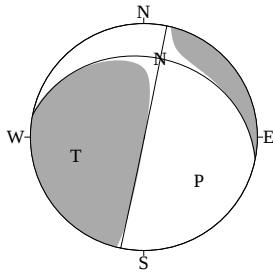
Cent.:43°35.6'N 146° 6.4'E 76km $\Delta t = 0.5$
Mo: 7.89×10^{15} N·m Mw:4.5 Mj:4.5 (sec)
mrr: 2.33 mtt:-2.63 mff: 0.30
mrt:-6.15 mrf:-4.29 mtf:-0.05 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:109° 12° 141° P-axis:-7.63 336° 36°
NP2:237° 82° 80° T-axis: 8.15 136° 52°
N-axis:-0.52 239° 10°
V.R.: 86% ϵ : 0.06 N:13 COMP:21

2023/08/25 07:48:24.3
FAR E OFF SANRIKU
Hypo.:39°29.2'N 143°20.3'E 15km



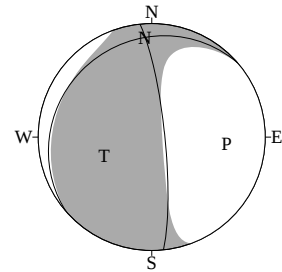
Cent.:39°31.4'N 143°19.5'E 15km $\Delta t = 6.0$
Mo: 9.70×10^{17} N·m Mw:5.9 Mj:6.0 (sec)
mrr: 2.23 mtt: 0.01 mff:-2.24
mrt: 3.80 mrf: 8.68 mtf:-0.26 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 23° 84° 94° P-axis:-9.70 110° 38°
NP2:173° 7° 60° T-axis: 9.80 297° 51°
N-axis:-0.20 203° 4°
V.R.: 76% ϵ : 0.02 N:14 COMP:33

2023/08/26 22:29:33.6
SUONADA SETONAIKAI
Hypo.:33°55.5'N 131°53.2'E 74km



Cent.:33°56.0'N 131°53.0'E 74km $\Delta t = 0.7$
Mo: 1.41×10^{16} N·m Mw:4.7 Mj:4.6 (sec)
mrr: 0.03 mtt:-0.33 mff: 0.30
mrt: 0.19 mrf: 1.21 mtf:-0.63 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:281° 30° 179° P-axis:-1.37 128° 38°
NP2: 12° 90° 60° T-axis: 1.45 255° 38°
N-axis:-0.08 12° 30°
V.R.: 86% ϵ : 0.06 N:24 COMP:54

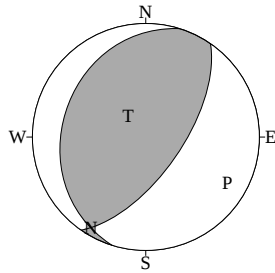
2023/08/27 09:56:49.2
NEAR CHOSHI CITY
Hypo.:35°30.9'N 140°53.9'E 37km



Cent.:35°30.9'N 140°53.5'E 37km $\Delta t = 0.5$
Mo: 9.24×10^{15} N·m Mw:4.6 Mj:4.6 (sec)
mrr: 2.28 mtt: 1.69 mff:-3.97
mrt:-0.75 mrf: 8.47 mtf:-1.60 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:354° 81° 77° P-axis:-9.94 95° 34°
NP2:229° 16° 144° T-axis: 8.53 249° 53°
N-axis: 1.42 356° 13°
V.R.: 65% ϵ :-0.14 N:15 COMP:23

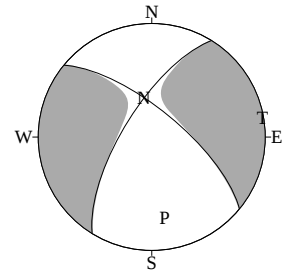
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2023/08/28 02:03:50.9
 FAR E OFF KANTO
 Hypo.:36°25.7'N 142°39.9'E 6km



Cent.:36°25.7'N 142°41.5'E 10km $\Delta t = 0.5$
 Mo: 7.79×10^{15} N·m Mw:4.5 Mj:4.9 (sec)
 mrr: 6.04 mtt:-1.06 mff:-4.97
 mrt: 3.12 mrf: 3.69 mtf:-2.50 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 35° 64° 98° P-axis:-7.80 119° 19°
 NP2:197° 27° 74° T-axis: 7.79 321° 70°
 N-axis: 0.01 211° 7°
 V.R.: 71% ϵ : 0.00 N:15 COMP:28

2023/08/28 18:08:33.3
 E OFF FUKUSHIMA PREF
 Hypo.:37° 8.2'N 142°18.4'E 11km



Cent.:37° 9.3'N 142°18.7'E 14km $\Delta t = 0.6$
 Mo: 1.38×10^{16} N·m Mw:4.7 Mj:5.0 (sec)
 mrr:-0.36 mtt:-0.98 mff: 1.35
 mrt: 0.54 mrf: 0.07 mtf:-0.40 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:212° 69° -21° P-axis:-1.35 171° 29°
 NP2:309° 71° -158° T-axis: 1.41 80° 1°
 N-axis:-0.06 349° 61°
 V.R.: 80% ϵ : 0.04 N:45 COMP:80

EQUAL AREA PROJECTON, LOWER HEMISPHERE.