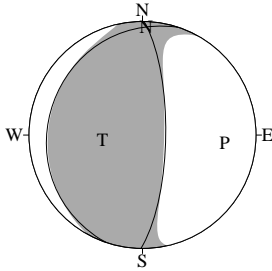


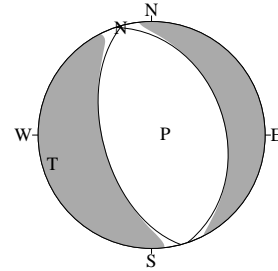
CMT SOLUTIONS FOR EARTHQUAKES IN DECEMBER, 2021

2021/12/01 15:04:56.1
E OFF BOSO PENINSULA
Hypo.:35°13.7'N 141°17.3'E 15km



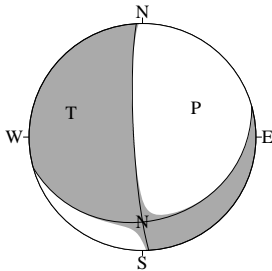
Cent.:35°20.4'N 141°17.4'E 19km $\Delta t = 4.8$
Mo: 2.42×10^{16} N·m Mw:4.9 Mj:4.9 (sec)
mrr: 1.23 mtt: 0.18 mff:-1.41
mrt:-0.01 mrf: 2.02 mtf:-0.24 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 1° 73° 85° P-axis:-2.52 95° 28°
NP2:198° 17° 107° T-axis: 2.33 263° 61°
N-axis: 0.19 2° 5°
V.R.: 81% ϵ :-0.07 N:28 COMP:38

2021/12/01 17:40:49.1
FAR E OFF IZU ISLANDS
Hypo.:31°13.8'N 142°27.5'E 69km



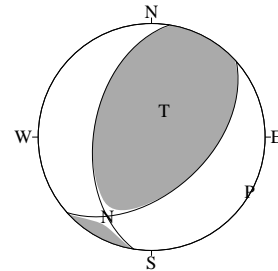
Cent.:31°13.7'N 142°31.3'E 10km $\Delta t = 0.6$
Mo: 9.96×10^{15} N·m Mw:4.6 Mj:4.6 (sec)
mrr:-9.25 mtt: 0.50 mff: 8.75
mrt:-0.67 mrf: 3.20 mtf:-2.72 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:342° 35° -93° P-axis:-9.81 83° 80°
NP2:165° 55° -88° T-axis:10.11 254° 10°
N-axis:-0.31 344° 2°
V.R.: 60% ϵ : 0.03 N:12 COMP:16

2021/12/02 01:58:38.8
SW IBARAKI PREF
Hypo.:36°13.0'N 139°59.4'E 65km



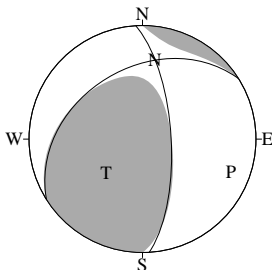
Cent.:36°13.4'N 139°59.6'E 65km $\Delta t = 0.8$
Mo: 3.11×10^{16} N·m Mw:4.9 Mj:5.1 (sec)
mrr:-0.63 mtt:-0.09 mff: 0.72
mrt:-0.35 mrf: 2.71 mtf: 1.32 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 74° 27° -14° P-axis:-3.15 61° 45°
NP2:177° 84° -116° T-axis: 3.07 289° 34°
N-axis: 0.08 180° 26°
V.R.: 87% ϵ :-0.03 N:11 COMP:17

2021/12/02 17:24:47.4
E OFF FUKUSHIMA PREF
Hypo.:37°40.1'N 141°42.6'E 53km



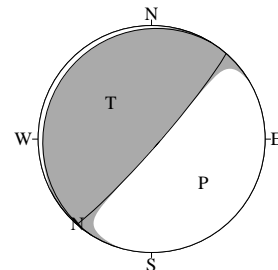
Cent.:37°40.1'N 141°43.3'E 53km $\Delta t = 0.5$
Mo: 7.57×10^{15} N·m Mw:4.5 Mj:4.7 (sec)
mrr: 6.64 mtt:-1.07 mff:-5.57
mrt: 2.40 mrf:-1.04 mtf:-3.51 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 48° 50° 118° P-axis:-7.49 119° 1°
NP2:189° 48° 61° T-axis: 7.64 26° 69°
N-axis:-0.15 209° 21°
V.R.: 66% ϵ : 0.02 N:15 COMP:30

2021/12/03 06:37:48.5
EASTERN YAMANASHI PREF
Hypo.:35°33.2'N 138°59.4'E 19km



Cent.:35°33.2'N 138°59.6'E 19km $\Delta t = 0.5$
Mo: 7.50×10^{15} N·m Mw:4.5 Mj:4.8 (sec)
mrr: 4.24 mtt: 0.01 mff:-4.26
mrt:-2.15 mrf: 4.75 mtf:-3.38 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:357° 69° 57° P-axis:-7.15 110° 18°
NP2:238° 38° 145° T-axis: 7.86 227° 54°
N-axis:-0.71 9° 30°
V.R.: 71% ϵ : 0.09 N:26 COMP:42

2021/12/03 09:28:28.9
S PART OF KII CHANNEL
Hypo.:33°48.0'N 135° 8.8'E 18km

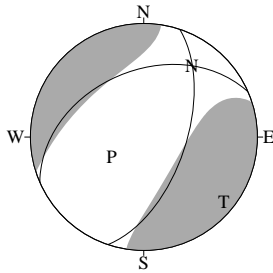


Cent.:33°51.5'N 135° 8.0'E 15km $\Delta t = 4.6$
Mo: 6.59×10^{16} N·m Mw:5.1 Mj:5.4 (sec)
mrr: 1.12 mtt:-0.35 mff:-0.77
mrt: 4.26 mrf: 4.87 mtf:-0.78 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 41° 85° 91° P-axis:-6.71 130° 40°
NP2:212° 6° 81° T-axis: 6.47 312° 50°
N-axis: 0.25 221° 1°
V.R.: 85% ϵ :-0.04 N:15 COMP:30

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

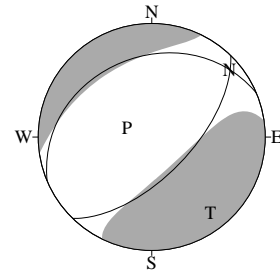
Hypo.:Location of hypocenter, Cent.:Location of centroid, Δt :Centroid time minus origin time
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude
mrr,mtt,mff,mrt,mrf,mtf: Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane
MOM,AZM,PLG: Moment tensor component, azimuth and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

2021/12/05 11:14:24.9
 NEAR TOKARA ISLANDS
 Hypo.:29°16.2'N 129°19.2'E 19km



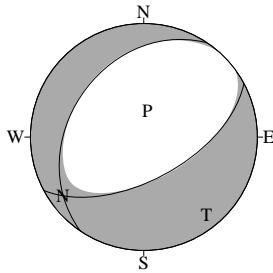
Cent.:29°12.9'N 129°19.5'E 10km $\Delta t = 4.3$
 Mo: 4.25×10^{16} N·m Mw:5.0 Mj:4.9 (sec)
 mrr:-2.93 mtt: 0.94 mff: 1.98
 mrt:-0.21 mrf:-1.60 mtf: 3.19 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 18° 60° -119° P-axis:-3.57 239° 63°
 NP2:246° 41° -50° T-axis: 4.93 129° 10°
 N-axis:-1.36 34° 25°
 V.R.: 81% ϵ : 0.28 N:22 COMP:32

2021/12/07 11:13:34.6
 NEAR TOKARA ISLANDS
 Hypo.:29°20.8'N 129°23.3'E 17km



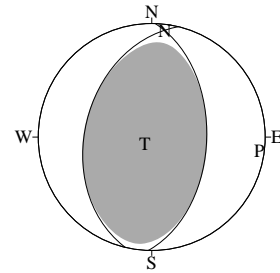
Cent.:29° 9.3'N 129°23.3'E 10km $\Delta t = 1.7$
 Mo: 2.63×10^{16} N·m Mw:4.9 Mj:4.7 (sec)
 mrr:-1.82 mtt: 1.41 mff: 0.42
 mrt:-0.96 mrf:-1.09 mtf: 1.55 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 44° 62° -101° P-axis:-2.30 290° 71°
 NP2:247° 30° -70° T-axis: 2.96 142° 17°
 N-axis:-0.66 49° 10°
 V.R.: 78% ϵ : 0.22 N:26 COMP:44

2021/12/08 02:29:26.2
 E OFF FUKUSHIMA PREF
 Hypo.:37° 9.9'N 141°12.5'E 17km



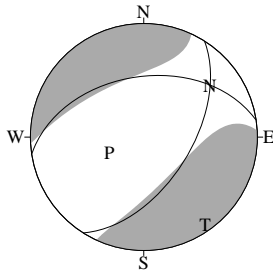
Cent.:37° 4.8'N 141°13.4'E 14km $\Delta t = 1.0$
 Mo: 2.48×10^{16} N·m Mw:4.9 Mj:5.2 (sec)
 mrr:-2.16 mtt: 1.17 mff: 0.99
 mrt:-1.18 mrf:-0.20 mtf: 1.10 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 62° 59° -75° P-axis:-2.55 8° 71°
 NP2:214° 34° -114° T-axis: 2.42 141° 13°
 N-axis: 0.13 234° 13°
 V.R.: 68% ϵ :-0.05 N:15 COMP:35

2021/12/08 16:22:18.2
 E OFF FUKUSHIMA PREF
 Hypo.:37°43.4'N 141°34.3'E 53km



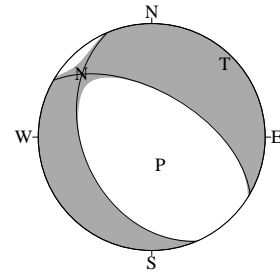
Cent.:37°35.4'N 141°34.9'E 56km $\Delta t = 1.0$
 Mo: 1.85×10^{16} N·m Mw:4.8 Mj:5.0 (sec)
 mrr: 1.84 mtt:-0.09 mff:-1.76
 mrt:-0.16 mrf: 0.32 mtf:-0.23 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 2° 50° 83° P-axis:-1.81 97° 5°
 NP2:193° 41° 99° T-axis: 1.89 226° 83°
 N-axis:-0.08 7° 6°
 V.R.: 74% ϵ : 0.04 N:15 COMP:26

2021/12/09 11:05: 8.0
 NEAR TOKARA ISLANDS
 Hypo.:29°20.5'N 129°27.0'E 14km



Cent.:29°19.8'N 129°27.1'E 10km $\Delta t = 5.2$
 Mo: 9.90×10^{17} N·m Mw:5.9 Mj:6.1 (sec)
 mrr:-7.12 mtt: 6.32 mff: 0.80
 mrt:-0.23 mrf:-2.87 mtf: 7.04 ($\times 10^{17}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 32° 56° -123° P-axis:-8.40 246° 63°
 NP2:261° 46° -51° T-axis:11.30 145° 6°
 N-axis:-2.90 52° 27°
 V.R.: 87% ϵ : 0.26 N:22 COMP:53

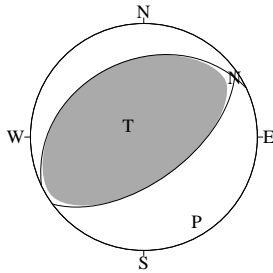
2021/12/12 12:21:26.5
 NW OFF HOKKAIDO
 Hypo.:44°26.1'N 141° 0.5'E 269km



Cent.:44°27.5'N 141° 0.5'E 273km $\Delta t = 1.1$
 Mo: 3.58×10^{16} N·m Mw:5.0 Mj:4.8 (sec)
 mrr:-3.05 mtt: 1.29 mff: 1.75
 mrt: 1.61 mrf:-0.05 mtf:-1.80 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:157° 38° -60° P-axis:-3.64 163° 69°
 NP2:300° 58° -112° T-axis: 3.54 45° 10°
 N-axis: 0.10 312° 18°
 V.R.: 81% ϵ :-0.03 N:17 COMP:31

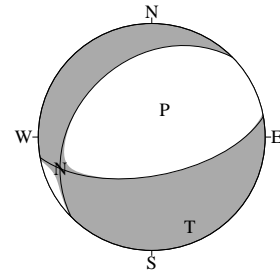
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2021/12/12 12:30:58.7
 SW IBARAKI PREF
 Hypo.:36° 8.0'N 139°51.1'E 50km



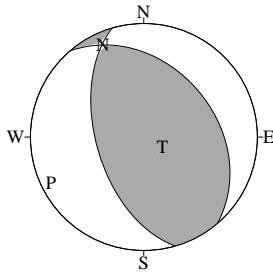
Cent.:36° 8.4'N 139°50.9'E 58km $\Delta t = 4.4$
 Mo: 3.92×10^{16} N·m Mw:5.0 Mj:5.0 (sec)
 mrr: 3.56 mtt:-2.59 mff:-0.97
 mrt: 1.25 mrf: 1.18 mtf:-1.51 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 54° 58° 84° P-axis:-3.88 148° 13°
 NP2:244° 32° 99° T-axis: 3.97 307° 76°
 N-axis:-0.09 57° 5°
 V.R.: 83% ϵ : 0.02 N:14 COMP:24

2021/12/12 15:43:13.7
 NEAR MIYAKOJIMA ISLAND
 Hypo.:24°20.1'N 126°34.9'E 88km



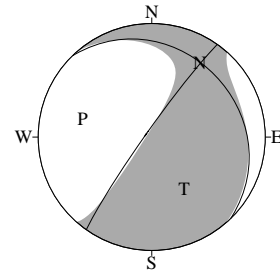
Cent.:24° 4.5'N 126°35.5'E 10km $\Delta t = 2.3$
 Mo: 2.02×10^{16} N·m Mw:4.8 Mj:5.0 (sec)
 mrr:-1.61 mtt: 1.34 mff: 0.27
 mrt:-1.12 mrf: 0.10 mtf: 0.78 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 80° 62° -72° P-axis:-2.04 25° 68°
 NP2:225° 33° -120° T-axis: 2.00 157° 15°
 N-axis: 0.03 251° 16°
 V.R.: 67% ϵ :-0.02 N:10 COMP:19

2021/12/21 01:05:26.1
 HIDAKA REGION
 Hypo.:42°23.1'N 142°39.4'E 39km



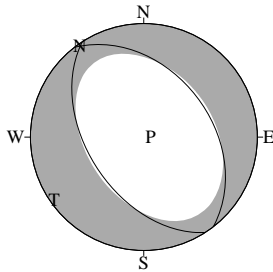
Cent.:42°15.4'N 142°39.1'E 46km $\Delta t = 1.4$
 Mo: 1.76×10^{16} N·m Mw:4.8 Mj:4.8 (sec)
 mrr: 1.60 mtt:-0.32 mff:-1.28
 mrt:-0.07 mrf:-0.66 mtf: 0.73 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:320° 37° 70° P-axis:-1.76 244° 10°
 NP2:164° 56° 104° T-axis: 1.77 116° 75°
 N-axis:-0.01 336° 12°
 V.R.: 79% ϵ : 0.00 N:14 COMP:29

2021/12/21 11:53:15.7
 NEAR KUNASHIRI ISLAND
 Hypo.:43°43.8'N 146° 3.0'E 96km



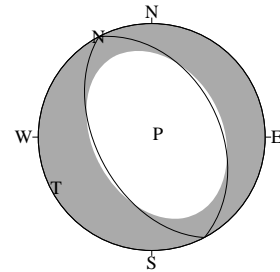
Cent.:43°41.3'N 146° 2.9'E 96km $\Delta t = 0.8$
 Mo: 2.93×10^{16} N·m Mw:4.9 Mj:5.0 (sec)
 mrr: 0.33 mtt: 1.05 mff:-1.38
 mrt:-1.47 mrf:-2.23 mtf:-0.02 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:215° 86° 113° P-axis:-3.10 285° 37°
 NP2:316° 23° 12° T-axis: 2.77 148° 45°
 N-axis: 0.33 33° 23°
 V.R.: 88% ϵ :-0.11 N:16 COMP:27

2021/12/22 01:42:41.4
 NEAR TORISHIMA IS
 Hypo.:31°13.5'N 142°22.5'E 76km



Cent.:31°10.5'N 142°23.5'E 10km $\Delta t = -1.2$
 Mo: 4.11×10^{16} N·m Mw:5.0 Mj:4.9 (sec)
 mrr:-4.34 mtt: 1.64 mff: 2.70
 mrt:-0.16 mrf: 0.60 mtf:-1.52 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:322° 41° -94° P-axis:-4.39 86° 85°
 NP2:147° 49° -87° T-axis: 3.82 235° 4°
 N-axis: 0.57 325° 2°
 V.R.: 73% ϵ :-0.13 N:15 COMP:28

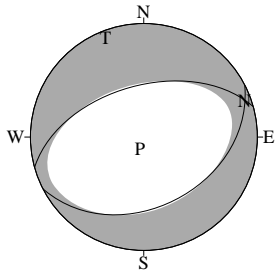
2021/12/26 17:26:47.1
 NEAR MIYAKOJIMA ISLAND
 Hypo.:25° 8.3'N 125°37.9'E 39km



Cent.:25° 3.3'N 125°37.7'E 24km $\Delta t = 4.7$
 Mo: 1.02×10^{18} N·m Mw:5.9 Mj:6.1 (sec)
 mrr:-1.10 mtt: 0.35 mff: 0.75
 mrt:-0.08 mrf: 0.15 mtf:-0.29 ($\times 10^{18}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:332° 40° -90° P-axis:-1.11 64° 85°
 NP2:152° 50° -90° T-axis: 0.92 242° 5°
 N-axis: 0.19 332° 0°
 V.R.: 82% ϵ :-0.17 N:14 COMP:32

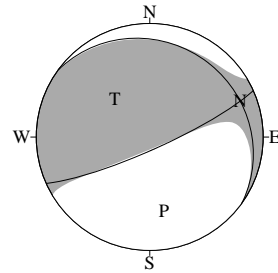
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2021/12/30 02:58:32.0
 NW OFF ISHIGAKIJIMA IS
 Hypo.:25° 3.7'N 123°36.3'E 16km



Cent.:25° 3.7'N 123°36.7'E 16km $\Delta t = 0.7$
 Mo: 2.05×10^{16} N·m Mw:4.8 Mj:4.8 (sec)
 mrr:-2.05 mtt: 1.65 mff: 0.40
 mrt: 0.56 mrf:-0.03 mtf: 0.59 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 63° 38° -99° P-axis:-2.14 197° 81°
 NP2:254° 53° -83° T-axis: 1.95 339° 7°
 N-axis: 0.19 70° 6°
 V.R.: 63% ϵ :-0.09 N:7 COMP:9

2021/12/30 15:47: 9.2
 NW OFF ISHIGAKIJIMA IS
 Hypo.:23°54.6'N 122°29.2'E 22km



Cent.:24° 1.9'N 122°28.9'E 17km $\Delta t = 4.9$
 Mo: 7.61×10^{16} N·m Mw:5.2 Mj:5.5 (sec)
 mrr: 2.06 mtt:-3.59 mff: 1.52
 mrt: 6.31 mrf: 2.94 mtf: 0.20 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 66° 81° 75° P-axis:-7.90 169° 34°
 NP2:306° 18° 149° T-axis: 7.32 318° 52°
 N-axis: 0.58 68° 15°
 V.R.: 69% ϵ :-0.07 N:7 COMP:13

EQUAL AREA PROJECTON, LOWER HEMISPHERE.