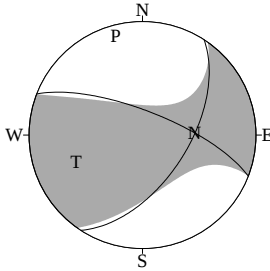


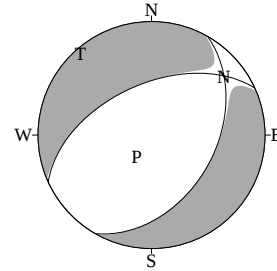
CMT SOLUTIONS FOR EARTHQUAKES IN NOVEMBER, 2016

2016/11/01 04:02:48.3
NEAR CHOSHI CITY
Hypo.:35°29.6'N 141° 3.3'E 32km



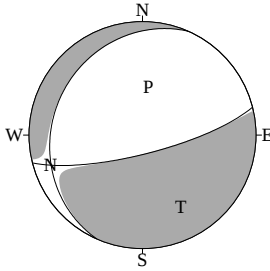
Cent.:35°30.1'N 141° 3.4'E 29km $\Delta t = 0.3$
Mo: 3.88×10^{15} N·m Mw:4.3 Mj:4.2 (sec)
mrr: 1.60 mtt:-3.55 mff: 1.95
mrt:-1.32 mrf: 0.95 mtf:-1.84 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 33° 57° 21° P-axis:-4.29 345° 10°
NP2:291° 73° 145° T-axis: 3.47 248° 37°
N-axis: 0.82 88° 52°
V.R.: 73% ϵ :-0.19 N:32 COMP:41

2016/11/02 07:31:57.1
NEAR OKINAWAJIMA ISLAND
Hypo.:25°47.3'N 128°35.0'E 56km



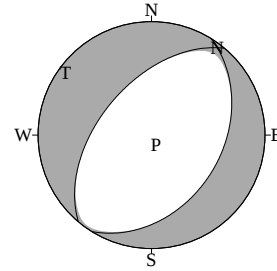
Cent.:25°34.5'N 128°34.8'E 12km $\Delta t = 2.0$
Mo: 2.53×10^{16} N·m Mw:4.9 Mj:4.8 (sec)
mrr:-2.20 mtt: 1.23 mff: 0.97
mrt: 0.81 mrf:-0.27 mtf: 1.41 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 30° 43°-118° P-axis:-2.49 214° 71°
NP2:245° 53° -66° T-axis: 2.56 319° 5°
N-axis:-0.07 51° 19°
V.R.: 81% ϵ : 0.03 N:13 COMP:21

2016/11/02 07:37:31.4
E OFF FUKUSHIMA PREF
Hypo.:37°27.0'N 141°51.0'E 27km



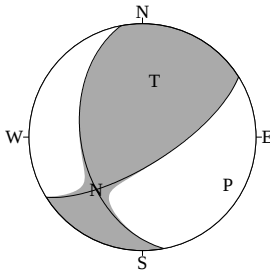
Cent.:37°22.2'N 141°50.9'E 10km $\Delta t = 0.9$
Mo: 1.10×10^{16} N·m Mw:4.6 Mj:4.9 (sec)
mrr:-0.47 mtt: 0.32 mff: 0.16
mrt:-0.93 mrf:-0.17 mtf: 0.40 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 76° 76° -73° P-axis:-1.09 7° 55°
NP2:203° 22°-140° T-axis: 1.12 152° 29°
N-axis:-0.03 252° 16°
V.R.: 73% ϵ : 0.02 N:21 COMP:34

2016/11/07 05:25:52.5
NEAR OKINAWAJIMA ISLAND
Hypo.:26°24.5'N 128°49.5'E 35km



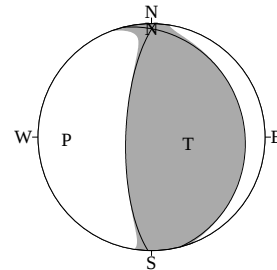
Cent.:26°22.6'N 128°49.4'E 21km $\Delta t = 0.8$
Mo: 1.87×10^{16} N·m Mw:4.8 Mj:4.8 (sec)
mrr:-1.81 mtt: 0.63 mff: 1.19
mrt: 0.39 mrf: 0.30 mtf: 0.85 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 32° 38° -97° P-axis:-1.88 156° 82°
NP2:220° 52° -85° T-axis: 1.86 306° 7°
N-axis: 0.02 37° 4°
V.R.: 78% ϵ :-0.01 N:11 COMP:17

2016/11/10 07:20:39.6
E OFF MIYAGI PREF
Hypo.:38°41.4'N 142°16.8'E 39km



Cent.:38°41.5'N 142°17.8'E 44km $\Delta t = 0.3$
Mo: 3.69×10^{16} N·m Mw:5.0 Mj:5.1 (sec)
mrr: 1.78 mtt: 0.79 mff:-2.57
mrt: 2.20 mrf: 0.49 mtf:-1.84 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 58° 70° 131° P-axis:-3.75 119° 15°
NP2:169° 45° 29° T-axis: 3.64 12° 48°
N-axis: 0.10 221° 38°
V.R.: 87% ϵ :-0.03 N:13 COMP:17

2016/11/11 13:53:37.0
ISE BAY REGION
Hypo.:34°33.6'N 136°48.6'E 357km

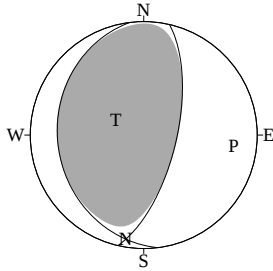


Cent.:34°27.8'N 136°48.7'E 355km $\Delta t = 1.0$
Mo: 2.74×10^{16} N·m Mw:4.9 Mj:4.9 (sec)
mrr: 1.60 mtt: 0.10 mff:-1.70
mrt:-0.14 mrf:-2.18 mtf: 0.19 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:345° 19° 74° P-axis:-2.79 268° 26°
NP2:182° 71° 95° T-axis: 2.70 100° 63°
N-axis: 0.09 0° 5°
V.R.: 84% ϵ :-0.03 N:49 COMP:73

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

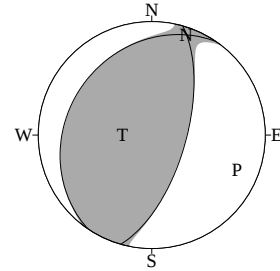
Hypo.:Location of hypocenter, Cent.:Location of centroid, Δt :Centroid time minus origin time
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude
mrr,mtt,mff,mrt,mrf,mtf:Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane
MOM,AZM,PLG:Moment tensor component, azimuth and plunge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

2016/11/12 06:43: 0.7
KINKAZAN REGION
Hypo.:38°27.8'N 141°36.4'E 58km



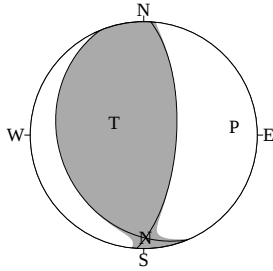
Cent.:38°40.9'N 141°35.0'E 54km $\Delta t=10.6$
Mo: 1.89×10^{18} N·m Mw:6.1 Mj:5.9 (sec)
mrr: 1.41 mtt:-0.03 mff:-1.38
mrt: 0.41 mrf: 1.21 mtf:-0.06 ($\times 10^{18}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 13° 66° 99° P-axis:-1.85 97° 21°
NP2:173° 25° 71° T-axis: 1.93 299° 67°
N-axis:-0.07 190° 8°
V.R.: 78% ϵ : 0.04 N:23 COMP:48

2016/11/15 01:15:46.6
NEAR CHOSHI CITY
Hypo.:35°54.0'N 140°51.7'E 43km



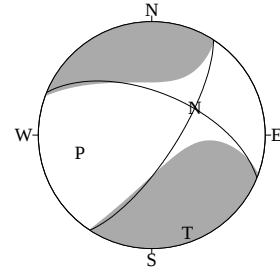
Cent.:35°54.5'N 140°51.7'E 43km $\Delta t= 3.6$
Mo: 1.45×10^{16} N·m Mw:4.7 Mj:4.6 (sec)
mrr: 1.07 mtt:-0.15 mff:-0.93
mrt: 0.18 mrf: 0.92 mtf:-0.46 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 16° 65° 82° P-axis:-1.47 112° 20°
NP2:215° 26° 107° T-axis: 1.43 270° 69°
N-axis: 0.04 19° 7°
V.R.: 78% ϵ :-0.03 N:44 COMP:82

2016/11/17 01:01:56.3
CENTRAL CHIBA PREF
Hypo.:35°38.9'N 140° 9.7'E 66km



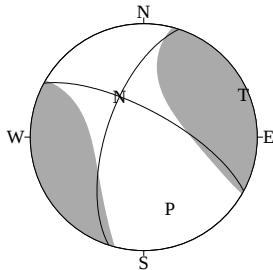
Cent.:35°39.0'N 140°10.5'E 66km $\Delta t= 0.4$
Mo: 3.29×10^{15} N·m Mw:4.3 Mj:4.2 (sec)
mrr: 2.34 mtt: 0.12 mff:-2.46
mrt: 0.37 mrf: 2.18 mtf: 0.43 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 4° 66° 101° P-axis:-3.32 85° 21°
NP2:158° 26° 66° T-axis: 3.26 293° 67°
N-axis: 0.06 179° 10°
V.R.: 69% ϵ :-0.02 N:15 COMP:22

2016/11/18 10:19: 5.4
NW OFF KYUSHU
Hypo.:33°44.2'N 130°14.0'E 14km



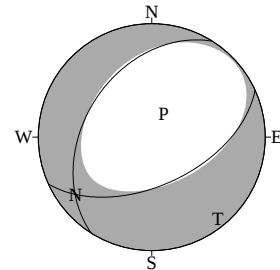
Cent.:33°44.2'N 130°14.0'E 14km $\Delta t= 0.3$
Mo: 2.00×10^{15} N·m Mw:4.1 Mj:4.2 (sec)
mrr:-0.80 mtt: 1.79 mff:-0.99
mrt:-0.20 mrf:-0.78 mtf: 1.03 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 33° 73° -147° P-axis:-1.81 256° 35°
NP2:292° 59° -21° T-axis: 2.20 160° 9°
N-axis:-0.39 58° 53°
V.R.: 78% ϵ : 0.18 N:13 COMP:17

2016/11/19 11:48: 1.4
CENTRAL WAKAYAMA PREF
Hypo.:33°50.5'N 135°27.8'E 51km



Cent.:33°52.1'N 135°27.9'E 48km $\Delta t= 5.6$
Mo: 1.20×10^{17} N·m Mw:5.3 Mj:5.4 (sec)
mrr:-0.57 mtt:-0.48 mff: 1.05
mrt: 0.31 mrf:-0.06 mtf:-0.77 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:298° 71° -151° P-axis:-1.00 160° 33°
NP2:198° 63° -21° T-axis: 1.40 67° 5°
N-axis:-0.40 329° 56°
V.R.: 82% ϵ : 0.30 N:24 COMP:53

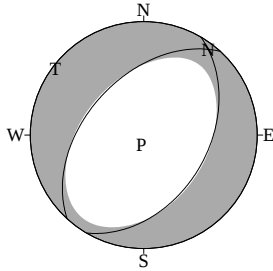
2016/11/22 05:59:46.8
E OFF FUKUSHIMA PREF
Hypo.:37°21.2'N 141°36.2'E 25km



Cent.:37°13.0'N 141°36.0'E 12km $\Delta t=10.3$
Mo: 3.15×10^{19} N·m Mw:6.9 Mj:7.4 (sec)
mrr:-2.93 mtt: 1.61 mff: 1.32
mrt:-1.27 mrf: 0.31 mtf: 1.37 ($\times 10^{19}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 65° 55° -69° P-axis:-3.36 27° 71°
NP2:212° 40° -117° T-axis: 2.94 141° 8°
N-axis: 0.41 233° 17°
V.R.: 85% ϵ :-0.12 N:27 COMP:76

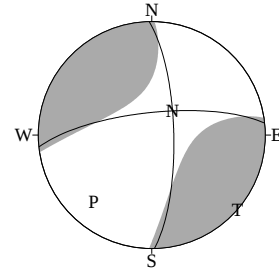
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2016/11/22 19:58:33.8
E OFF FUKUSHIMA PREF
Hypo.:37°14.5'N 141°12.6'E 18km



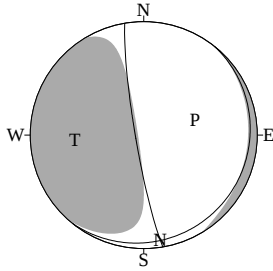
Cent.:37°14.5'N 141°12.8'E 10km $\Delta t = 0.3$
Mo: 2.70×10^{15} N·m Mw:4.2 Mj:4.5 (sec)
mrr:-2.77 mtt: 1.03 mff: 1.74
mrt: 0.41 mrf: 0.01 mtf: 1.13 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 30° 43° -99° P-axis:-2.82 193° 83°
NP2:223° 48° -82° T-axis: 2.58 307° 3°
N-axis: 0.24 37° 6°
V.R.: 72% ϵ : -0.08 N:11 COMP:18

2016/11/22 23:03:57.8
E OFF FUKUSHIMA PREF
Hypo.:37°10.7'N 141°26.6'E 28km



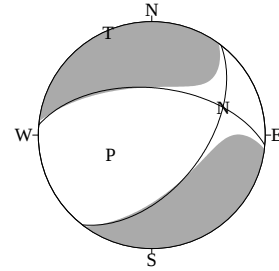
Cent.:37° 5.5'N 141°27.0'E 10km $\Delta t = 2.8$
Mo: 9.92×10^{16} N·m Mw:5.3 Mj:5.7 (sec)
mrr:-3.31 mtt: 0.44 mff: 2.87
mrt: 1.69 mrf:-1.56 mtf: 9.36 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:359° 74° -163° P-axis:-8.75 221° 23°
NP2:264° 74° -16° T-axis:11.09 131° 0°
N-axis:-2.34 41° 67°
V.R.: 73% ϵ : 0.21 N:18 COMP:34

2016/11/23 03:45:19.7
FAR S OFF BOSO PENINSULA
Hypo.:34°32.5'N 140° 4.0'E 101km



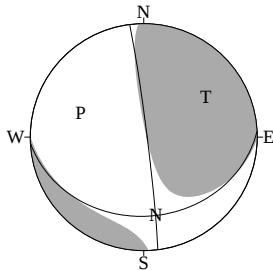
Cent.:34°32.5'N 140° 4.2'E 101km $\Delta t = 0.5$
Mo: 8.70×10^{15} N·m Mw:4.6 Mj:4.5 (sec)
mrr:-1.22 mtt:-1.40 mff: 2.63
mrt:-1.32 mrf: 8.35 mtf: 0.38 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 38° 9° -42° P-axis:-8.10 73° 51°
NP2:170° 84° -97° T-axis: 9.29 266° 39°
N-axis:-1.19 171° 7°
V.R.: 82% ϵ : 0.13 N:19 COMP:27

2016/11/23 18:36:36.3
E OFF FUKUSHIMA PREF
Hypo.:37°19.6'N 141°38.0'E 33km



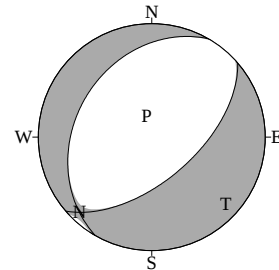
Cent.:37°19.6'N 141°38.1'E 10km $\Delta t = 0.3$
Mo: 2.20×10^{15} N·m Mw:4.2 Mj:4.5 (sec)
mrr:-1.52 mtt: 1.83 mff:-0.31
mrt: 0.46 mrf:-0.70 mtf: 1.14 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 38° 52° -134° P-axis:-2.07 244° 57°
NP2:275° 56° -49° T-axis: 2.33 337° 2°
N-axis:-0.27 69° 33°
V.R.: 71% ϵ : 0.11 N:14 COMP:19

2016/11/23 18:59:57.4
W OFF OGASAWARA
Hypo.:27°18.7'N 140°33.6'E 498km



Cent.:27° 5.4'N 140°24.1'E 491km $\Delta t = 0.3$
Mo: 5.70×10^{17} N·m Mw:5.8 Mj:5.9 (sec)
mrr:-0.33 mtt: 0.27 mff: 0.06
mrt: 1.00 mrf:-4.81 mtf:-3.02 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:353° 88° -59° P-axis:-5.30 291° 40°
NP2: 87° 31° -175° T-axis: 6.10 57° 35°
N-axis:-0.80 171° 31°
V.R.: 79% ϵ : 0.13 N:15 COMP:25

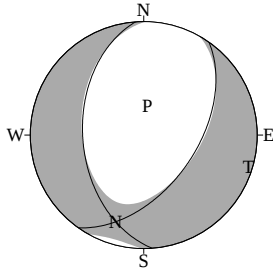
2016/11/23 21:42:41.6
E OFF FUKUSHIMA PREF
Hypo.:37°13.6'N 141°11.9'E 17km



Cent.:37°13.6'N 141°11.9'E 10km $\Delta t = 3.4$
Mo: 4.56×10^{15} N·m Mw:4.4 Mj:4.7 (sec)
mrr:-3.99 mtt: 1.60 mff: 2.39
mrt:-1.87 mrf:-1.04 mtf: 2.03 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 49° 59° -80° P-axis:-4.59 347° 74°
NP2:210° 33° -107° T-axis: 4.54 132° 13°
N-axis: 0.05 224° 9°
V.R.: 75% ϵ : -0.01 N:22 COMP:36

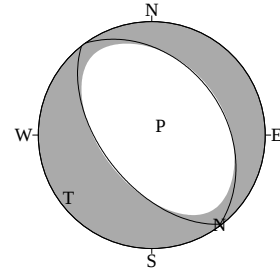
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2016/11/24 06:23:36.3
E OFF FUKUSHIMA PREF
Hypo.:37°10.4'N 141°20.7'E 24km



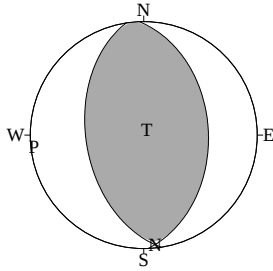
Cent.:37°10.1'N 141°20.1'E 10km $\Delta t = 6.7$
Mo: $7.00 \times 10^{17} \text{N}\cdot\text{m}$ Mw:5.8 Mj:6.2 (sec)
mrr:-6.28 mtt: 0.07 mff: 6.20
mrt:-2.75 mrf:-0.03 mtf: $1.80 (\times 10^{17} \text{N}\cdot\text{m})$
STR DIP SLIP MOM AZM PLG
NP1: 35° 52° -63° P-axis:-7.30 7° 69°
NP2:176° 45° -120° T-axis: 6.70 107° 4°
N-axis: 0.60 198° 21°
V.R.: 81% ϵ :-0.08 N:24 COMP:58

2016/11/24 13:48: 6.5
E OFF FUKUSHIMA PREF
Hypo.:37° 6.1'N 141°23.5'E 27km



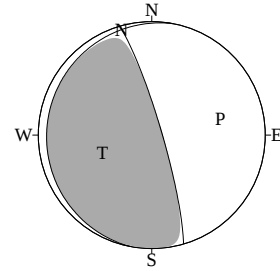
Cent.:37° 6.1'N 141°23.3'E 10km $\Delta t = 0.4$
Mo: $3.19 \times 10^{15} \text{N}\cdot\text{m}$ Mw:4.3 Mj:4.7 (sec)
mrr:-3.14 mtt: 1.20 mff: 1.94
mrt:-0.66 mrf: 0.75 mtf:- $1.29 (\times 10^{15} \text{N}\cdot\text{m})$
STR DIP SLIP MOM AZM PLG
NP1:324° 36° -88° P-axis:-3.30 45° 81°
NP2:142° 54° -91° T-axis: 3.07 233° 9°
N-axis: 0.23 143° 1°
V.R.: 80% ϵ :-0.07 N:24 COMP:34

2016/11/25 17:22:49.3
SOYA REGION
Hypo.:44°50.1'N 141°50.8'E 27km



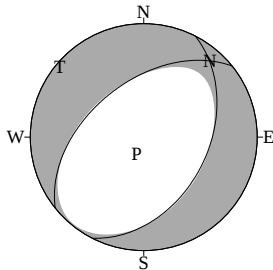
Cent.:44°50.1'N 141°50.2'E 27km $\Delta t = 0.5$
Mo: $1.05 \times 10^{16} \text{N}\cdot\text{m}$ Mw:4.6 Mj:4.6 (sec)
mrr: 1.04 mtt:-0.01 mff:-1.03
mrt: 0.07 mrf:-0.09 mtf: $0.10 (\times 10^{16} \text{N}\cdot\text{m})$
STR DIP SLIP MOM AZM PLG
NP1:358° 42° 95° P-axis:-1.05 264° 3°
NP2:171° 48° 85° T-axis: 1.05 32° 86°
N-axis:-0.01 174° 3°
V.R.: 72% ϵ : 0.00 N:10 COMP:18

2016/11/25 21:47:12.3
E OFF HACHIJOJIMA ISLAND
Hypo.:32°29.0'N 141°40.3'E 0km



Cent.:32°29.0'N 141°42.6'E 10km $\Delta t = 0.6$
Mo: $1.57 \times 10^{16} \text{N}\cdot\text{m}$ Mw:4.7 Mj:4.6 (sec)
mrr: 0.41 mtt: 0.00 mff:-0.41
mrt:-0.44 mrf: 1.45 mtf: $0.01 (\times 10^{16} \text{N}\cdot\text{m})$
STR DIP SLIP MOM AZM PLG
NP1:344° 83° 86° P-axis:-1.56 77° 38°
NP2:191° 8° 116° T-axis: 1.58 250° 52°
N-axis:-0.03 344° 4°
V.R.: 68% ϵ : 0.02 N:29 COMP:53

2016/11/27 19:17:53.8
E OFF FUKUSHIMA PREF
Hypo.:37°14.8'N 141°23.7'E 24km



Cent.:37°14.8'N 141°23.7'E 10km $\Delta t = 0.4$
Mo: $2.68 \times 10^{15} \text{N}\cdot\text{m}$ Mw:4.2 Mj:4.5 (sec)
mrr:-2.61 mtt: 1.04 mff: 1.57
mrt: 0.69 mrf:-0.13 mtf: $1.24 (\times 10^{15} \text{N}\cdot\text{m})$
STR DIP SLIP MOM AZM PLG
NP1: 27° 43° -108° P-axis:-2.77 203° 77°
NP2:231° 50° -74° T-axis: 2.60 310° 4°
N-axis: 0.17 41° 12°
V.R.: 80% ϵ :-0.06 N:21 COMP:29

EQUAL AREA PROJECTION, LOWER HEMISPHERE.