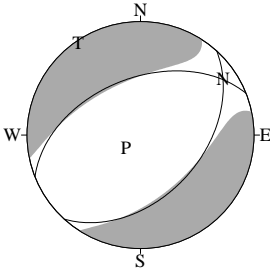


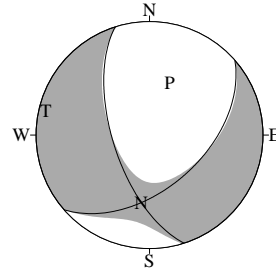
CMT SOLUTIONS FOR EARTHQUAKES IN FEBRUARY, 2017

2017/02/03 23:15:30.1
E OFF FUKUSHIMA PREF
Hypo.:37°11.3'N 141°28.8'E 27km



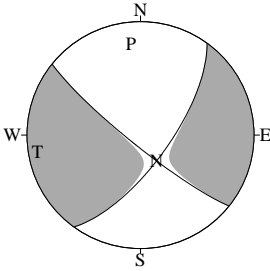
Cent.:37°11.3'N 141°28.7'E 10km $\Delta t = 0.4$
Mo: 4.65×10^{15} N·m Mw:4.4 Mj:4.9 (sec)
mrr:-4.10 mtt: 3.10 mff: 1.01
mrt: 0.71 mrf:-0.51 mtf: 2.74 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 42° 45° -109° P-axis:-4.31 228° 76°
NP2:248° 48° -72° T-axis: 4.99 326° 2°
N-axis:-0.69 56° 13°
V.R.: 73% ϵ : 0.14 N:24 COMP:31

2017/02/06 20:58: 7.2
FAR E OFF CENTRAL HONSHU
Hypo.:33°38.0'N 142°21.1'E 66km



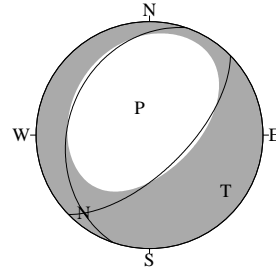
Cent.:33°37.8'N 142°22.3'E 12km $\Delta t = 0.8$
Mo: 1.99×10^{16} N·m Mw:4.8 Mj:4.8 (sec)
mrr:-1.09 mtt:-0.57 mff: 1.66
mrt:-0.99 mrf: 0.62 mtf: 0.70 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 49° 51° -35° P-axis:-2.08 21° 49°
NP2:162° 64° -136° T-axis: 1.90 283° 7°
N-axis: 0.18 187° 40°
V.R.: 88% ϵ :-0.09 N:36 COMP:52

2017/02/08 03:19:29.5
SE OFF SHIKOKU
Hypo.:33°25.9'N 134°38.9'E 36km



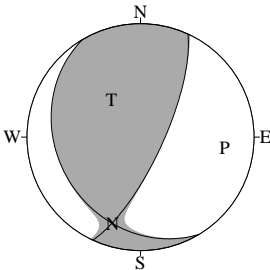
Cent.:33°25.9'N 134°38.8'E 36km $\Delta t = 0.4$
Mo: 3.90×10^{15} N·m Mw:4.3 Mj:4.2 (sec)
mrr:-0.44 mtt:-3.28 mff: 3.72
mrt:-1.29 mrf: 0.48 mtf:-0.97 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 36° 70° -8° P-axis:-3.85 354° 20°
NP2:129° 82° -159° T-axis: 3.95 261° 9°
N-axis:-0.10 148° 68°
V.R.: 72% ϵ : 0.02 N:15 COMP:23

2017/02/11 06:05:26.7
E OFF FUKUSHIMA PREF
Hypo.:37°10.6'N 141°43.1'E 41km



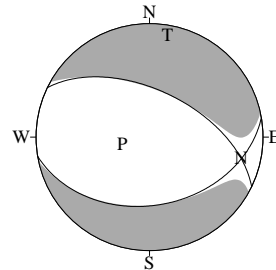
Cent.:37°11.4'N 141°44.4'E 23km $\Delta t = 2.9$
Mo: 7.99×10^{16} N·m Mw:5.2 Mj:5.4 (sec)
mrr:-6.90 mtt: 2.17 mff: 4.73
mrt:-4.31 mrf:-2.51 mtf: 1.93 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 46° 64° -78° P-axis:-8.82 340° 69°
NP2:199° 29° -114° T-axis: 7.16 126° 18°
N-axis: 1.66 220° 11°
V.R.: 77% ϵ :-0.19 N:23 COMP:37

2017/02/12 22:36:53.9
NE OFF IWATE PREF
Hypo.:40° 9.6'N 142°21.9'E 36km



Cent.:40° 9.6'N 142°22.2'E 50km $\Delta t = 0.6$
Mo: 1.28×10^{16} N·m Mw:4.7 Mj:4.8 (sec)
mrr: 0.63 mtt: 0.26 mff:-0.88
mrt: 0.53 mrf: 0.86 mtf: 0.05 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 24° 74° 112° P-axis:-1.29 97° 26°
NP2:149° 27° 38° T-axis: 1.27 322° 56°
N-axis: 0.02 198° 21°
V.R.: 76% ϵ :-0.02 N:29 COMP:42

2017/02/15 01:26:21.0
NEAR ISHIGAKIJIMA ISLAND
Hypo.:23°15.9'N 125° 3.6'E 49km

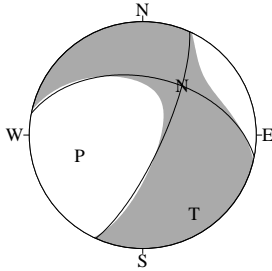


Cent.:23° 4.6'N 125° 4.8'E 21km $\Delta t = 1.8$
Mo: 2.04×10^{16} N·m Mw:4.8 Mj:4.6 (sec)
mrr:-1.72 mtt: 1.96 mff:-0.24
mrt: 0.47 mrf:-0.65 mtf:-0.33 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 80° 40° -119° P-axis:-1.99 256° 70°
NP2:296° 56° -68° T-axis: 2.09 10° 9°
N-axis:-0.10 103° 18°
V.R.: 70% ϵ : 0.05 N:15 COMP:28

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

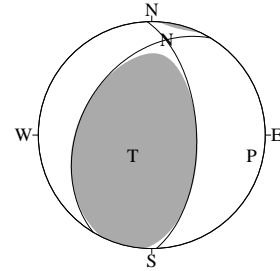
Hypo.:Location of hypocenter, Cent.:Location of centroid, Δt :Centroid time minus origin time
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude
mrr,mtt,mff,mrt,mrf,mtf: Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane
MOM,AZM,PLG: Moment tensor component, azimuth and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

2017/02/16 04:41: 0.1
SEA OF JAPAN
Hypo.:37° 9.6'N 135°19.8'E 381km



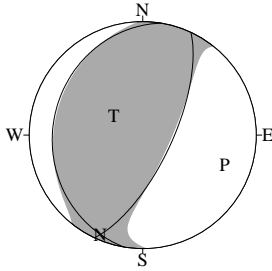
Cent.:37°10.8'N 135°19.3'E 382km $\Delta t = 0.8$
Mo: $1.70 \times 10^{16} \text{N}\cdot\text{m}$ Mw:4.8 Mj:4.7 (sec)
mrr:-0.52 mtt: 0.98 mff:-0.46
mrt:-0.04 mrf:-1.17 mtf: 0.91 ($\times 10^{16} \text{N}\cdot\text{m}$)
STR DIP SLIP MOM AZM PLG
NP1: 24° 76° -136° P-axis:-1.81 252° 41°
NP2:281° 48° -20° T-axis: 1.60 147° 18°
N-axis: 0.20 39° 44°
V.R.: 80% ϵ :-0.11 N:39 COMP:58

2017/02/19 18:19:29.8
NEAR CHOSHI CITY
Hypo.:35°43.8'N 140°39.8'E 52km



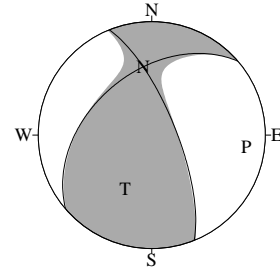
Cent.:35°38.5'N 140°39.3'E 48km $\Delta t = 10.0$
Mo: $1.60 \times 10^{17} \text{N}\cdot\text{m}$ Mw:5.4 Mj:5.4 (sec)
mrr: 1.41 mtt:-0.04 mff:-1.37
mrt:-0.35 mrf: 0.64 mtf:-0.38 ($\times 10^{17} \text{N}\cdot\text{m}$)
STR DIP SLIP MOM AZM PLG
NP1:358° 58° 70° P-axis:-1.60 102° 11°
NP2:211° 37° 118° T-axis: 1.70 223° 70°
N-axis:-0.10 9° 16°
V.R.: 72% ϵ : 0.05 N:14 COMP:29

2017/02/25 13:52:54.2
E OFF MIYAGI PREF
Hypo.:38°43.3'N 142°15.6'E 39km



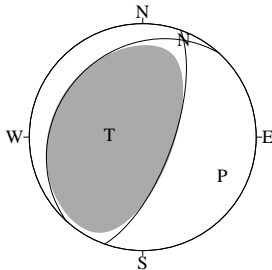
Cent.:38°45.7'N 142°15.8'E 39km $\Delta t = 0.5$
Mo: $0.98 \times 10^{16} \text{N}\cdot\text{m}$ Mw:4.6 Mj:4.5 (sec)
mrr: 0.61 mtt: 0.02 mff:-0.63
mrt: 0.33 mrf: 0.65 mtf:-0.24 ($\times 10^{16} \text{N}\cdot\text{m}$)
STR DIP SLIP MOM AZM PLG
NP1: 25° 69° 96° P-axis:-1.03 110° 24°
NP2:189° 22° 76° T-axis: 0.94 304° 65°
N-axis: 0.09 203° 5°
V.R.: 79% ϵ :-0.09 N:15 COMP:21

2017/02/26 05:11:45.0
SW IBARAKI PREF
Hypo.:36°12.0'N 139°48.1'E 56km



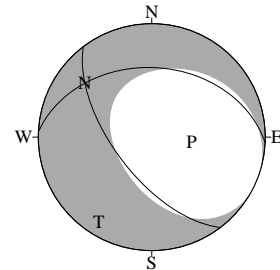
Cent.:36°12.0'N 139°48.0'E 56km $\Delta t = 0.3$
Mo: $2.29 \times 10^{15} \text{N}\cdot\text{m}$ Mw:4.2 Mj:4.0 (sec)
mrr: 0.99 mtt: 0.92 mff:-1.91
mrt:-0.85 mrf: 1.15 mtf:-0.69 ($\times 10^{15} \text{N}\cdot\text{m}$)
STR DIP SLIP MOM AZM PLG
NP1:338° 73° 48° P-axis:-2.36 97° 17°
NP2:229° 44° 155° T-axis: 2.23 206° 46°
N-axis: 0.13 353° 39°
V.R.: 75% ϵ :-0.06 N:17 COMP:19

2017/02/27 00:03:33.2
E OFF FUKUSHIMA PREF
Hypo.:37° 4.0'N 141°10.8'E 50km



Cent.:37° 3.3'N 141°11.4'E 50km $\Delta t = 0.7$
Mo: $2.16 \times 10^{16} \text{N}\cdot\text{m}$ Mw:4.8 Mj:4.9 (sec)
mrr: 1.55 mtt:-0.48 mff:-1.07
mrt: 0.37 mrf: 1.51 mtf:-0.62 ($\times 10^{16} \text{N}\cdot\text{m}$)
STR DIP SLIP MOM AZM PLG
NP1: 19° 68° 81° P-axis:-2.08 116° 23°
NP2:222° 23° 111° T-axis: 2.24 274° 66°
N-axis:-0.17 23° 8°
V.R.: 81% ϵ : 0.07 N:42 COMP:59

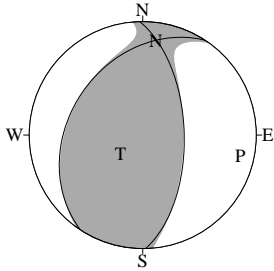
2017/02/27 08:17: 7.2
FAR E OFF OGASAWARA
Hypo.:27° 9.1'N 144° 7.4'E 44km



Cent.:27° 0.7'N 144° 6.9'E 10km $\Delta t = 1.4$
Mo: $2.58 \times 10^{16} \text{N}\cdot\text{m}$ Mw:4.9 Mj:5.3 (sec)
mrr:-2.01 mtt: 1.72 mff: 0.29
mrt:-0.08 mrf: 1.73 mtf:-0.74 ($\times 10^{16} \text{N}\cdot\text{m}$)
STR DIP SLIP MOM AZM PLG
NP1:143° 63° -61° P-axis:-2.96 97° 61°
NP2:273° 39° -133° T-axis: 2.21 212° 13°
N-axis: 0.75 309° 25°
V.R.: 81% ϵ :-0.25 N:15 COMP:26

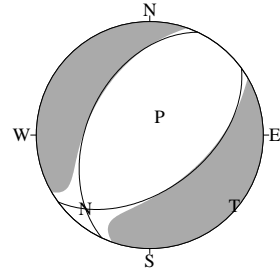
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2017/02/27 11:17:29.6
 FAR E OFF SANRIKU
 Hypo.:39°19.8'N 143°58.4'E 10km



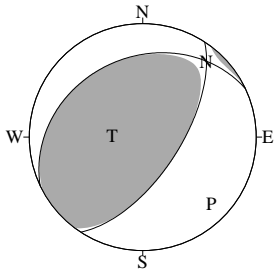
Cent.:39°19.8'N 143°58.9'E 10km $\Delta t = 0.5$
 Mo: 8.07×10^{15} N·m Mw:4.5 Mj:4.9 (sec)
 mrr: 6.44 mtt: 0.46 mff:-6.90
 mrt:-1.26 mrf: 3.76 mtf:-2.20 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:358° 60° 71° P-axis:-8.27 102° 13°
 NP2:213° 35° 120° T-axis: 7.87 229° 69°
 N-axis: 0.40 8° 17°
 V.R.: 77% ϵ : -0.05 N:29 COMP:33

2017/02/27 14:19:52.8
 E OFF FUKUSHIMA PREF
 Hypo.:37°15.0'N 141°32.7'E 33km



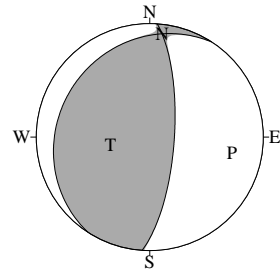
Cent.:37°15.0'N 141°33.0'E 10km $\Delta t = 0.4$
 Mo: 3.03×10^{15} N·m Mw:4.3 Mj:4.5 (sec)
 mrr:-2.71 mtt: 1.02 mff: 1.69
 mrt:-0.70 mrf: 0.19 mtf: 1.75 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 54° 50° -70° P-axis:-2.91 29° 75°
 NP2:205° 44° -112° T-axis: 3.15 130° 3°
 N-axis:-0.25 221° 15°
 V.R.: 76% ϵ : 0.08 N:18 COMP:23

2017/02/27 18:10:39.1
 HIDAKA MOUNTAINS REGION
 Hypo.:42°20.9'N 143° 2.9'E 52km



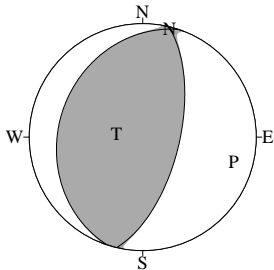
Cent.:42°21.0'N 143° 2.8'E 52km $\Delta t = 0.6$
 Mo: 1.38×10^{16} N·m Mw:4.7 Mj:4.7 (sec)
 mrr: 1.08 mtt:-0.63 mff:-0.45
 mrt: 0.29 mrf: 0.77 mtf:-0.59 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 33° 64° 75° P-axis:-1.35 134° 17°
 NP2:245° 30° 118° T-axis: 1.40 273° 68°
 N-axis:-0.04 40° 14°
 V.R.: 75% ϵ : 0.03 N:27 COMP:42

2017/02/28 10:50: 1.9
 FAR E OFF SANRIKU
 Hypo.:39°14.0'N 143°50.9'E 8km



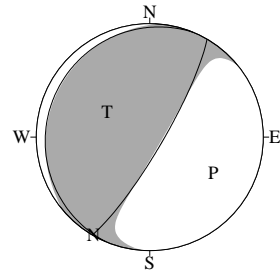
Cent.:39°14.0'N 143°51.9'E 10km $\Delta t = 0.5$
 Mo: 7.05×10^{15} N·m Mw:4.5 Mj:4.6 (sec)
 mrr: 3.99 mtt:-0.13 mff:-3.87
 mrt: 0.03 mrf: 5.68 mtf:-1.39 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 4° 72° 80° P-axis:-7.07 101° 27°
 NP2:213° 20° 118° T-axis: 7.02 259° 61°
 N-axis: 0.04 7° 9°
 V.R.: 74% ϵ : -0.01 N:14 COMP:19

2017/02/28 16:49: 2.0
 E OFF FUKUSHIMA PREF
 Hypo.:37°30.8'N 141°22.0'E 52km



Cent.:37°38.1'N 141°21.7'E 57km $\Delta t = 6.9$
 Mo: 4.90×10^{17} N·m Mw:5.7 Mj:5.7 (sec)
 mrr: 3.89 mtt:-0.25 mff:-3.64
 mrt: 0.59 mrf: 2.88 mtf:-1.04 ($\times 10^{17}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 13° 63° 88° P-axis:-4.90 105° 18°
 NP2:198° 27° 95° T-axis: 4.90 278° 71°
 N-axis: 0.00 14° 2°
 V.R.: 76% ϵ : -0.01 N:25 COMP:48

2017/02/28 17:08:23.7
 E OFF FUKUSHIMA PREF
 Hypo.:36°45.1'N 142°13.9'E 22km



Cent.:36°45.1'N 142°14.8'E 10km $\Delta t = 0.5$
 Mo: 0.98×10^{16} N·m Mw:4.6 Mj:4.6 (sec)
 mrr: 0.28 mtt:-0.02 mff:-0.26
 mrt: 0.47 mrf: 0.80 mtf:-0.17 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 30° 81° 91° P-axis:-1.01 119° 36°
 NP2:203° 9° 83° T-axis: 0.95 301° 54°
 N-axis: 0.07 210° 1°
 V.R.: 66% ϵ : -0.07 N:15 COMP:23

EQUAL AREA PROJECTON, LOWER HEMISPHERE.