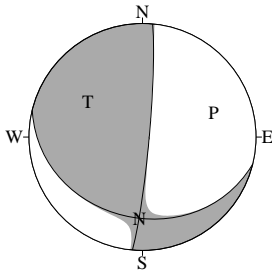


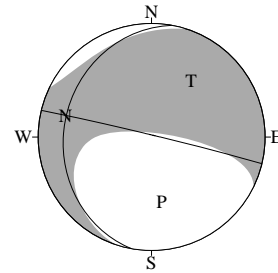
CMT SOLUTIONS FOR EARTHQUAKES IN OCTOBER, 2018

2018/10/01 11:22: 3.3
 ISHIKARI DEPRESSION
 Hypo.:42°47.6'N 142° 0.6'E 35km



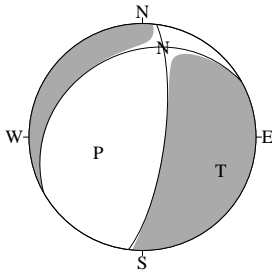
Cent.:42°47.6'N 142° 0.6'E 35km $\Delta t = 0.5$
 Mo: 9.59×10^{15} N·m Mw:4.6 Mj:4.7 (sec)
 mrr: 1.36 mtt: 0.98 mff:-2.33
 mrt: 0.97 mrf: 8.20 mtf: 4.45 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 5° 85° 119° P-axis:-9.72 71° 34°
 NP2:104° 30° 10° T-axis: 9.47 303° 42°
 N-axis: 0.25 182° 29°
 V.R.: 89% ϵ :-0.03 N:9 COMP:11

2018/10/04 00:15:30.5
 NEAR CHOSHI CITY
 Hypo.:35°48.5'N 140°58.2'E 31km



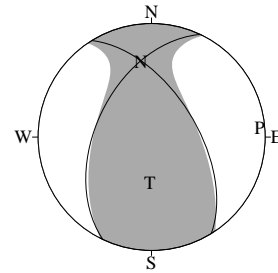
Cent.:35°40.9'N 140°58.3'E 28km $\Delta t = 1.0$
 Mo: 1.17×10^{16} N·m Mw:4.6 Mj:4.7 (sec)
 mrr:-0.12 mtt:-0.27 mff: 0.40
 mrt: 1.08 mrf:-0.10 mtf:-0.35 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:283° 89°-113° P-axis:-1.30 171° 42°
 NP2:190° 24° -4° T-axis: 1.04 35° 39°
 N-axis: 0.26 284° 23°
 V.R.: 78% ϵ :-0.20 N:19 COMP:29

2018/10/05 07:44:32.4
 NEAR OKINAWAJIMA ISLAND
 Hypo.:26°39.6'N 129°38.3'E 41km



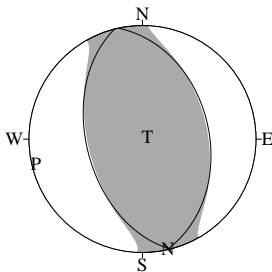
Cent.:26°27.3'N 129°38.7'E 10km $\Delta t = 1.9$
 Mo: 5.66×10^{16} N·m Mw:5.1 Mj:4.9 (sec)
 mrr:-2.77 mtt: 0.39 mff: 2.38
 mrt:-0.08 mrf:-4.50 mtf: 2.25 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 7° 74°-111° P-axis:-5.58 250° 56°
 NP2:241° 26° -39° T-axis: 5.74 113° 26°
 N-axis:-0.16 13° 20°
 V.R.: 80% ϵ : 0.03 N:8 COMP:11

2018/10/05 08:58:49.1
 ISHIKARI DEPRESSION
 Hypo.:42°35.5'N 141°57.9'E 31km



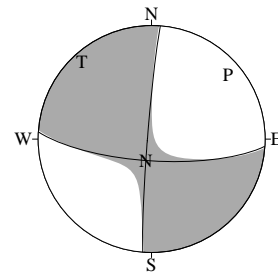
Cent.:42°36.6'N 141°57.9'E 24km $\Delta t = 4.7$
 Mo: 6.20×10^{16} N·m Mw:5.1 Mj:5.2 (sec)
 mrr: 4.27 mtt: 2.25 mff:-6.52
 mrt:-2.30 mrf: 0.70 mtf: 0.57 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:328° 58° 50° P-axis:-6.63 85° 5°
 NP2:205° 49° 135° T-axis: 5.78 182° 57°
 N-axis: 0.85 352° 33°
 V.R.: 83% ϵ :-0.13 N:21 COMP:44

2018/10/06 13:14:23.8
 ISHIKARI DEPRESSION
 Hypo.:42°40.8'N 141°59.3'E 35km



Cent.:42°40.8'N 141°59.2'E 35km $\Delta t = 0.4$
 Mo: 3.58×10^{15} N·m Mw:4.3 Mj:4.1 (sec)
 mrr: 3.39 mtt: 0.10 mff:-3.49
 mrt: 0.17 mrf:-0.49 mtf: 0.90 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:348° 41° 92° P-axis:-3.74 257° 4°
 NP2:166° 49° 89° T-axis: 3.43 62° 86°
 N-axis: 0.32 167° 1°
 V.R.: 79% ϵ :-0.08 N:8 COMP:15

2018/10/09 02:45:15.9
 ISHIKARI DEPRESSION
 Hypo.:42°37.5'N 141°57.5'E 32km

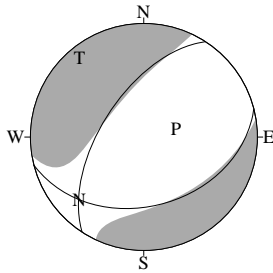


Cent.:42°37.5'N 141°57.3'E 32km $\Delta t = 0.4$
 Mo: 5.07×10^{15} N·m Mw:4.4 Mj:4.3 (sec)
 mrr: 0.11 mtt: 0.65 mff:-0.76
 mrt:-0.25 mrf: 1.40 mtf: 4.82 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:184° 87°-164° P-axis:-5.21 50° 13°
 NP2: 94° 74° -3° T-axis: 4.93 318° 9°
 N-axis: 0.28 195° 74°
 V.R.: 81% ϵ :-0.05 N:11 COMP:18

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

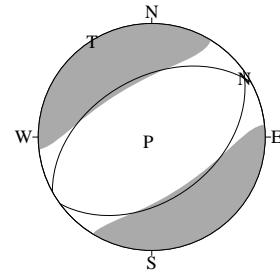
Hypo.:Location of hypocenter, Cent.:Location of centroid, Δt :Centroid time minus origin time
 Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude
 mrr,mtt,mff,mrt,mrf,mtf: Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane
 MOM,AZM,PLG: Moment tensor component, azimuth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

2018/10/09 04:51:57.2
 E OFF FUKUSHIMA PREF
 Hypo.:37°18.0'N 141°43.6'E 34km



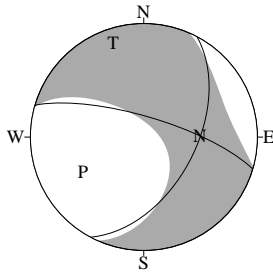
Cent.:37°15.9'N 141°43.8'E 10km $\Delta t = 0.4$
 Mo: 1.57×10^{16} N·m Mw:4.7 Mj:4.9 (sec)
 mrr:-1.16 mtt: 0.86 mff: 0.30
 mrt: 0.19 mrf: 0.66 mtf: 0.99 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 76° 39° -54° P-axis:-1.43 76° 66°
 NP2:213° 59° -115° T-axis: 1.72 321° 11°
 N-axis:-0.29 226° 22°
 V.R.: 82% ϵ : 0.17 N:21 COMP:47

2018/10/10 18:43:11.8
 TAIWAN REGION
 Hypo.:24°54.3'N 122° 3.6'E 38km



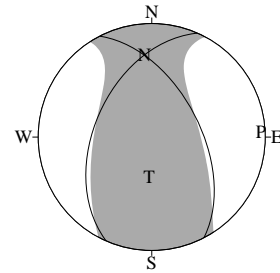
Cent.:24°54.3'N 122° 3.7'E 10km $\Delta t = 0.5$
 Mo: 9.11×10^{15} N·m Mw:4.6 Mj:4.6 (sec)
 mrr:-7.84 mtt: 6.65 mff: 1.19
 mrt: 0.56 mrf:-0.04 mtf: 5.81 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 54° 44° -95° P-axis:-7.87 216° 86°
 NP2:241° 47° -85° T-axis:10.35 328° 1°
 N-axis:-2.48 58° 4°
 V.R.: 89% ϵ : 0.24 N:6 COMP:9

2018/10/11 15:18:41.5
 NW OFF OKINAWAJIMA IS
 Hypo.:28° 6.4'N 128° 2.4'E 10km



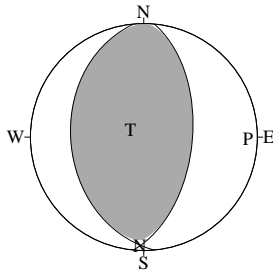
Cent.:28° 2.8'N 128° 2.4'E 10km $\Delta t = 6.2$
 Mo: 3.68×10^{16} N·m Mw:5.0 Mj:4.9 (sec)
 mrr:-0.79 mtt: 2.02 mff:-1.23
 mrt: 1.75 mrf:-2.04 mtf: 2.00 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 28° 52° -161° P-axis:-4.20 240° 38°
 NP2:286° 75° -39° T-axis: 3.16 342° 14°
 N-axis: 1.04 89° 49°
 V.R.: 83% ϵ :-0.25 N:8 COMP:10

2018/10/12 09:14:27.9
 ISHIKARI DEPRESSION
 Hypo.:42°35.5'N 141°56.8'E 23km



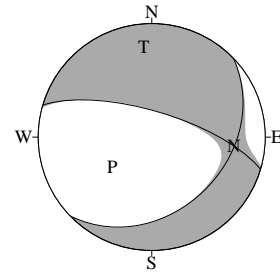
Cent.:42°35.1'N 141°56.8'E 22km $\Delta t = 0.5$
 Mo: 8.53×10^{15} N·m Mw:4.6 Mj:4.6 (sec)
 mrr: 6.20 mtt: 3.28 mff:-9.48
 mrt:-2.31 mrf: 0.95 mtf: 0.55 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:333° 55° 55° P-axis:-9.57 87° 4°
 NP2:204° 48° 130° T-axis: 7.49 184° 61°
 N-axis: 2.09 355° 28°
 V.R.: 83% ϵ :-0.22 N:18 COMP:28

2018/10/12 13:15:47.6
 NEAR CHOSHI CITY
 Hypo.:35°44.7'N 140°41.3'E 52km



Cent.:35°47.2'N 140°41.2'E 48km $\Delta t = 7.1$
 Mo: 1.20×10^{17} N·m Mw:5.3 Mj:5.2 (sec)
 mrr: 1.11 mtt: 0.00 mff:-1.11
 mrt: 0.11 mrf: 0.38 mtf: 0.00 ($\times 10^{17}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 5° 55° 96° P-axis:-1.20 91° 9°
 NP2:175° 36° 81° T-axis: 1.20 300° 79°
 N-axis: 0.00 182° 5°
 V.R.: 85% ϵ : 0.01 N:34 COMP:75

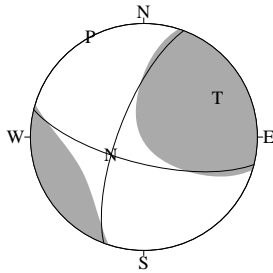
2018/10/15 09:12:55.0
 SOUTHERN KUMAMOTO PREF
 Hypo.:32°34.9'N 130°38.2'E 11km



Cent.:32°34.9'N 130°38.4'E 11km $\Delta t = 0.4$
 Mo: 2.86×10^{15} N·m Mw:4.2 Mj:4.1 (sec)
 mrr:-1.53 mtt: 2.06 mff:-0.53
 mrt: 1.77 mrf:-1.06 mtf: 0.72 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 46° 34° -145° P-axis:-2.92 233° 54°
 NP2:286° 71° -61° T-axis: 2.81 355° 21°
 N-axis: 0.12 96° 28°
 V.R.: 72% ϵ :-0.04 N:8 COMP:8

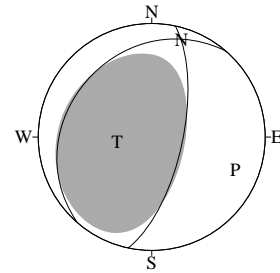
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2018/10/17 22:29: 7.9
 NEAR TORISHIMA IS
 Hypo.:29°15.0'N 141°32.2'E 105km



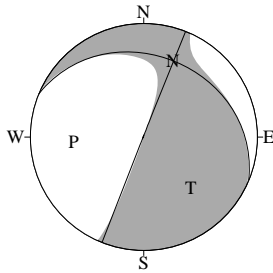
Cent.:29° 0.3'N 141°27.5'E 105km $\Delta t = 1.3$
 Mo: 2.39×10^{16} N·m Mw:4.9 Mj:5.0 (sec)
 mrr: 0.08 mtt:-1.21 mff: 1.13
 mrt: 0.60 mrf:-1.18 mtf:-1.69 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:201° 72° 20° P-axis:-2.10 332° 0°
 NP2:104° 71° 161° T-axis: 2.69 62° 27°
 N-axis:-0.59 241° 63°
 V.R.: 87% ϵ : 0.22 N:16 COMP:21

2018/10/18 14:18:22.6
 NEAR CHOSHI CITY
 Hypo.:35°30.6'N 140°57.7'E 41km



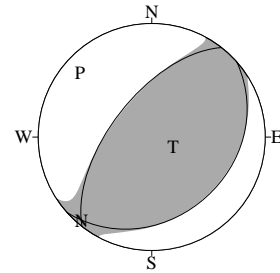
Cent.:35°33.9'N 140°57.1'E 46km $\Delta t = 2.8$
 Mo: 2.24×10^{16} N·m Mw:4.8 Mj:4.9 (sec)
 mrr: 1.70 mtt:-0.54 mff:-1.16
 mrt: 0.06 mrf: 1.60 mtf:-0.56 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 12° 68° 78° P-axis:-2.06 111° 22°
 NP2:221° 25° 117° T-axis: 2.42 262° 65°
 N-axis:-0.36 17° 11°
 V.R.: 82% ϵ : 0.15 N:40 COMP:61

2018/10/20 02:30:31.6
 HIDAKA MOUNTAINS REGION
 Hypo.:42°24.0'N 142°53.7'E 29km



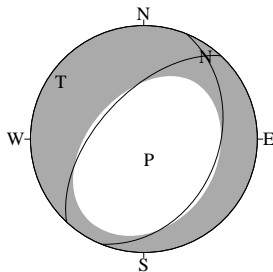
Cent.:42°24.1'N 142°54.0'E 29km $\Delta t = 0.5$
 Mo: 7.48×10^{15} N·m Mw:4.5 Mj:4.4 (sec)
 mrr: 0.01 mtt: 2.70 mff:-2.71
 mrt:-2.14 mrf:-6.21 mtf: 2.39 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:202° 90° 119° P-axis:-7.73 266° 38°
 NP2:292° 29° 1° T-axis: 7.23 137° 39°
 N-axis: 0.51 21° 29°
 V.R.: 77% ϵ :-0.07 N:12 COMP:17

2018/10/21 05:13:36.4
 SE OFF MIYAGI PREF
 Hypo.:37°51.5'N 141°45.4'E 53km



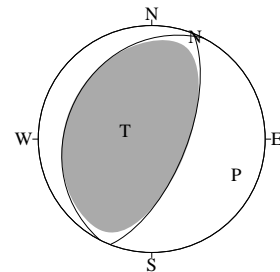
Cent.:37°51.5'N 141°45.3'E 53km $\Delta t = 0.4$
 Mo: 4.17×10^{15} N·m Mw:4.3 Mj:4.5 (sec)
 mrr: 3.40 mtt:-1.56 mff:-1.84
 mrt:-1.24 mrf:-1.84 mtf:-1.94 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 48° 29° 99° P-axis:-4.28 312° 16°
 NP2:218° 61° 85° T-axis: 4.06 115° 73°
 N-axis: 0.22 220° 4°
 V.R.: 81% ϵ :-0.05 N:9 COMP:10

2018/10/21 20:02:51.5
 KUJUKURI COAST BOSO PEN
 Hypo.:35°15.0'N 140°31.9'E 47km



Cent.:35°15.0'N 140°31.9'E 47km $\Delta t = 0.4$
 Mo: 2.73×10^{15} N·m Mw:4.2 Mj:4.3 (sec)
 mrr:-2.71 mtt: 0.93 mff: 1.77
 mrt: 1.10 mrf: 0.54 mtf: 0.75 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 22° 34° -107° P-axis:-3.04 165° 75°
 NP2:223° 58° -79° T-axis: 2.42 305° 12°
 N-axis: 0.61 37° 10°
 V.R.: 80% ϵ :-0.20 N:8 COMP:10

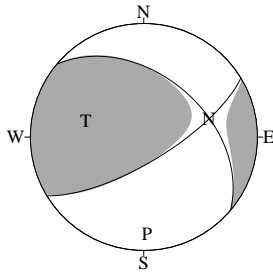
2018/10/22 19:47:18.4
 E OFF FUKUSHIMA PREF
 Hypo.:37°31.0'N 141°26.6'E 49km



Cent.:37°32.5'N 141°26.8'E 56km $\Delta t = 2.3$
 Mo: 3.29×10^{16} N·m Mw:4.9 Mj:5.0 (sec)
 mrr: 2.61 mtt:-0.55 mff:-2.06
 mrt: 0.71 mrf: 1.98 mtf:-0.87 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 22° 65° 88° P-axis:-3.21 113° 20°
 NP2:207° 25° 95° T-axis: 3.37 287° 70°
 N-axis:-0.16 23° 2°
 V.R.: 84% ϵ : 0.05 N:9 COMP:13

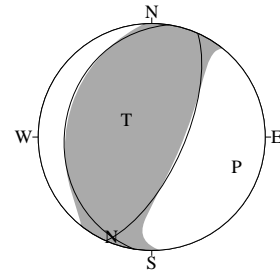
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2018/10/23 13:34:57.7
 NW OFF ISHIGAKIJIMA IS
 Hypo.:23°57.3'N 122°35.7'E 26km



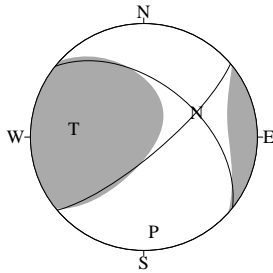
Cent.:24° 4.4'N 122°35.6'E 28km $\Delta t = 4.1$
 Mo: 7.00×10^{17} N·m Mw:5.8 Mj:6.1 (sec)
 mrr: 2.99 mtt:-5.99 mff: 3.00
 mrt: 2.79 mrf: 3.71 mtf: 0.82 ($\times 10^{17}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 59° 72° 48° P-axis:-6.80 178° 16°
 NP2:310° 45° 154° T-axis: 7.20 286° 46°
 N-axis:-0.40 74° 40°
 V.R.: 81% ϵ : 0.06 N:9 COMP:16

2018/10/23 20:06:20.6
 E OFF MIYAGI PREF
 Hypo.:38°16.2'N 141°53.8'E 46km



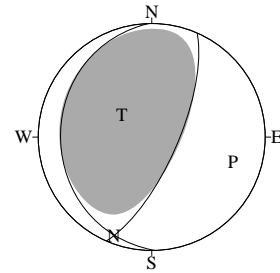
Cent.:38°13.9'N 141°53.9'E 46km $\Delta t = 0.7$
 Mo: 1.23×10^{16} N·m Mw:4.7 Mj:4.7 (sec)
 mrr: 0.82 mtt: 0.05 mff:-0.88
 mrt: 0.37 mrf: 0.76 mtf:-0.32 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 24° 67° 96° P-axis:-1.31 109° 22°
 NP2:189° 24° 76° T-axis: 1.16 305° 68°
 N-axis: 0.14 202° 6°
 V.R.: 86% ϵ :-0.11 N:12 COMP:18

2018/10/24 01:04: 4.1
 NW OFF ISHIGAKIJIMA IS
 Hypo.:23°58.1'N 122°36.1'E 28km



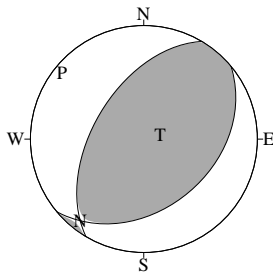
Cent.:23°55.5'N 122°36.1'E 29km $\Delta t = 3.0$
 Mo: 4.80×10^{17} N·m Mw:5.7 Mj:6.3 (sec)
 mrr: 1.08 mtt:-3.93 mff: 2.86
 mrt: 1.27 mrf: 3.18 mtf: 0.18 ($\times 10^{17}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 50° 77° 41° P-axis:-4.30 174° 17°
 NP2:309° 51° 163° T-axis: 5.40 277° 38°
 N-axis:-1.10 65° 47°
 V.R.: 85% ϵ : 0.20 N:10 COMP:19

2018/10/26 03:36: 9.8
 E OFF MIYAGI PREF
 Hypo.:38°16.7'N 141°48.6'E 49km



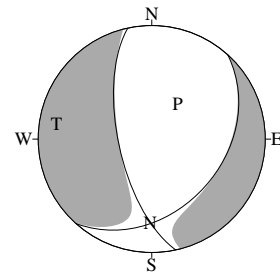
Cent.:38°17.9'N 141°49.3'E 54km $\Delta t = 2.2$
 Mo: 4.90×10^{17} N·m Mw:5.7 Mj:5.7 (sec)
 mrr: 3.13 mtt:-0.34 mff:-2.80
 mrt: 1.83 mrf: 3.36 mtf:-0.37 ($\times 10^{17}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 24° 71° 99° P-axis:-4.60 107° 26°
 NP2:178° 21° 66° T-axis: 5.10 307° 63°
 N-axis:-0.50 201° 8°
 V.R.: 84% ϵ : 0.09 N:15 COMP:24

2018/10/26 12:04:53.3
 NEAR KUNASHIRI ISLAND
 Hypo.:44°31.5'N 145°39.3'E 20km



Cent.:44°25.4'N 145°39.3'E 11km $\Delta t = 5.1$
 Mo: 3.80×10^{17} N·m Mw:5.7 Mj:5.5 (sec)
 mrr: 3.55 mtt:-1.48 mff:-2.07
 mrt:-0.12 mrf:-1.14 mtf:-1.84 ($\times 10^{17}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 50° 38° 106° P-axis:-3.80 309° 8°
 NP2:211° 53° 78° T-axis: 3.80 76° 78°
 N-axis: 0.00 218° 10°
 V.R.: 88% ϵ : 0.01 N:8 COMP:18

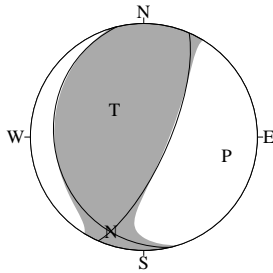
2018/10/27 09:08: 2.2
 E OFF IBARAKI PREF
 Hypo.:36°48.1'N 141°21.8'E 41km



Cent.:36°43.0'N 141°21.9'E 10km $\Delta t = 0.9$
 Mo: 1.89×10^{16} N·m Mw:4.8 Mj:5.0 (sec)
 mrr:-1.20 mtt:-0.38 mff: 1.58
 mrt:-0.53 mrf: 1.00 mtf: 0.52 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 42° 37° -42° P-axis:-1.83 36° 58°
 NP2:168° 66° -120° T-axis: 1.95 279° 16°
 N-axis:-0.12 181° 27°
 V.R.: 85% ϵ : 0.06 N:13 COMP:19

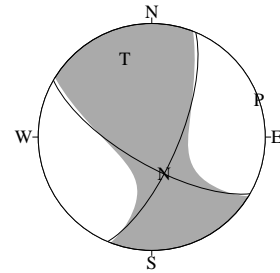
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2018/10/27 20:39:11.6
 NE OFF IWATE PREF
 Hypo.:40° 9.0'N 142°22.3'E 37km



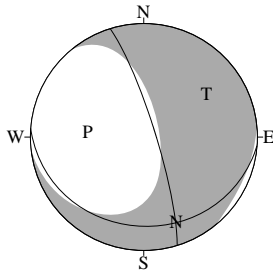
Cent.:40° 7.8'N 142°22.5'E 37km $\Delta t = 0.7$
 Mo: 1.85×10^{16} N·m Mw:4.8 Mj:4.8 (sec)
 mrr: 1.00 mtt: 0.24 mff:-1.23
 mrt: 0.66 mrf: 1.30 mtf:-0.18 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 24° 72° 103° P-axis:-1.92 103° 26°
 NP2:166° 22° 55° T-axis: 1.78 313° 61°
 N-axis: 0.14 199° 13°
 V.R.: 81% ϵ :-0.07 N:17 COMP:22

2018/10/27 20:51:50.5
 NORTHERN NARA PREF
 Hypo.:34°25.5'N 135°49.4'E 62km



Cent.:34°25.5'N 135°49.4'E 62km $\Delta t = 0.4$
 Mo: 2.68×10^{15} N·m Mw:4.2 Mj:4.2 (sec)
 mrr: 0.86 mtt: 1.52 mff:-2.38
 mrt: 0.82 mrf: 0.28 mtf: 1.48 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 23° 71° 159° P-axis:-2.88 71° 0°
 NP2:120° 71° 21° T-axis: 2.48 341° 28°
 N-axis: 0.40 161° 62°
 V.R.: 77% ϵ :-0.14 N:7 COMP:7

2018/10/29 10:27:45.4
 NEAR TORISHIMA IS
 Hypo.:31°46.7'N 140°41.1'E 86km



Cent.:31°41.8'N 140°41.0'E 97km $\Delta t = -2.0$
 Mo: 2.10×10^{17} N·m Mw:5.5 Mj:5.4 (sec)
 mrr:-0.78 mtt: 0.88 mff:-0.10
 mrt: 0.15 mrf:-1.92 mtf:-0.49 ($\times 10^{17}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:343° 81° -69° P-axis:-2.40 275° 49°
 NP2: 94° 22° -157° T-axis: 1.80 55° 33°
 N-axis: 0.60 159° 21°
 V.R.: 84% ϵ :-0.27 N:31 COMP:50

EQUAL AREA PROJECTON, LOWER HEMISPHERE.