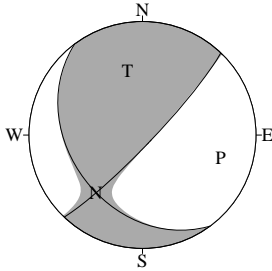


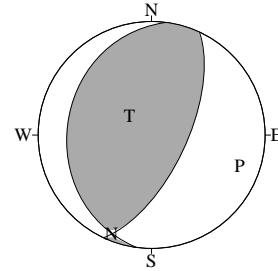
CMT SOLUTIONS FOR EARTHQUAKES IN JULY, 2018

2018/07/01 11:22: 0.0
 NEMURO REGION
 Hypo.:43°31.4'N 145°16.9'E 131km



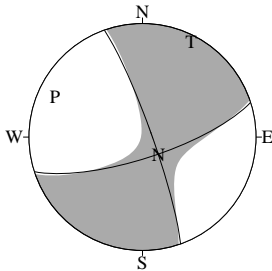
Cent.:43°31.4'N 145°17.2'E 131km $\Delta t = 0.4$
 Mo: 2.81×10^{15} N·m Mw:4.2 Mj:4.3 (sec)
 mrr: 0.55 mtt: 1.36 mff:-1.91
 mrt: 1.62 mrf: 1.52 mtf:-0.25 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 44° 83° 125° P-axis: -2.86 106° 29°
 NP2: 143° 36° 12° T-axis: 2.76 347° 41°
 N-axis: 0.10 219° 35°
 V.R.: 78% ϵ : -0.04 N:9 COMP:13

2018/07/02 02:27: 0.8
 E OFF AOMORI PREF
 Hypo.:41°29.6'N 142° 3.8'E 64km



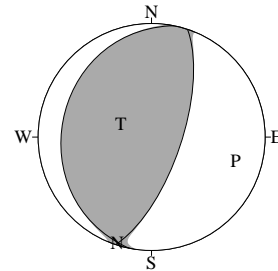
Cent.:41°30.4'N 142° 4.0'E 55km $\Delta t = 2.4$
 Mo: 4.13×10^{16} N·m Mw:5.0 Mj:4.9 (sec)
 mrr: 3.16 mtt:-0.19 mff:-2.97
 mrt: 1.32 mrf: 2.26 mtf:-0.88 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 25° 65° 98° P-axis: -4.12 109° 19°
 NP2: 187° 26° 74° T-axis: 4.13 311° 69°
 N-axis: -0.02 202° 7°
 V.R.: 84% ϵ : 0.00 N:37 COMP:69

2018/07/02 05:45:41.6
 SOUTHERN SEA OF OKHOTSK
 Hypo.:46°35.7'N 145° 1.5'E 427km



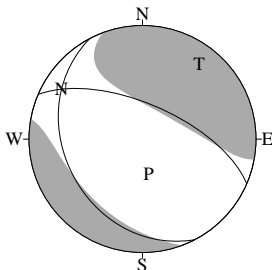
Cent.:46°51.9'N 145° 1.2'E 404km $\Delta t = 1.1$
 Mo: 3.10×10^{17} N·m Mw:5.6 Mj:5.6 (sec)
 mrr: 0.04 mtt: 1.79 mff:-1.83
 mrt: -0.14 mrf: -0.94 mtf: -2.35 ($\times 10^{17}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 72° 75° -173° P-axis: -3.20 295° 16°
 NP2: 340° 83° -15° T-axis: 3.00 27° 6°
 N-axis: 0.30 137° 73°
 V.R.: 82% ϵ : -0.08 N:25 COMP:45

2018/07/02 20:53:20.4
 E OFF AOMORI PREF
 Hypo.:41°11.7'N 142°42.0'E 39km



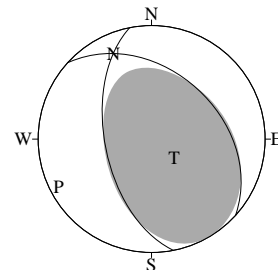
Cent.:41° 6.8'N 142°43.0'E 40km $\Delta t = 1.3$
 Mo: 4.07×10^{16} N·m Mw:5.0 Mj:5.0 (sec)
 mrr: 2.74 mtt: -0.14 mff: -2.61
 mrt: 1.01 mrf: 2.80 mtf: -0.71 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 18° 69° 93° P-axis: -4.09 106° 24°
 NP2: 191° 22° 83° T-axis: 4.05 293° 66°
 N-axis: 0.04 198° 2°
 V.R.: 74% ϵ : -0.01 N:8 COMP:10

2018/07/03 18:20:53.7
 TAIWAN REGION
 Hypo.:23°11.3'N 120°53.9'E 0km



Cent.:23°11.3'N 120°53.2'E 10km $\Delta t = 0.6$
 Mo: 1.44×10^{16} N·m Mw:4.7 Mj:4.5 (sec)
 mrr: -0.92 mtt: 0.62 mff: 0.30
 mrt: 0.79 mrf: -0.28 mtf: -0.89 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 152° 31° -55° P-axis: -1.26 170° 65°
 NP2: 293° 65° -109° T-axis: 1.62 37° 18°
 N-axis: -0.36 302° 17°
 V.R.: 84% ϵ : 0.22 N:7 COMP:11

2018/07/07 14:42:15.5
 SOUTHERN SEA OF OKHOTSK
 Hypo.:47°53.0'N 146°47.4'E 524km

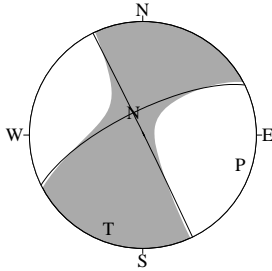


Cent.:48° 2.6'N 146°43.2'E 532km $\Delta t = 2.0$
 Mo: 4.94×10^{16} N·m Mw:5.1 Mj:4.7 (sec)
 mrr: 4.43 mtt: -1.14 mff: -3.30
 mrt: -0.95 mrf: -2.02 mtf: 1.94 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 312° 40° 60° P-axis: -4.63 243° 9°
 NP2: 169° 56° 113° T-axis: 5.25 129° 69°
 N-axis: -0.62 336° 19°
 V.R.: 86% ϵ : 0.12 N:12 COMP:20

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

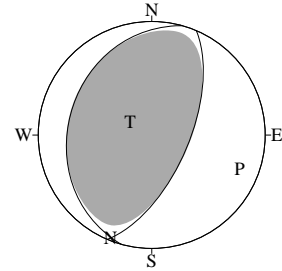
Hypo.:Location of hypocenter, Cent.:Location of centroid, Δt :Centroid time minus origin time
 Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude
 mrr,mtt,mff,mrt,mrf,mtf: Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane
 MOM,AZM,PLG: Moment tensor component, azimuth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

2018/07/07 20:23:48.9
 E OFF BOSO PENINSULA
 Hypo.:35° 9.9'N 140°35.5'E 57km



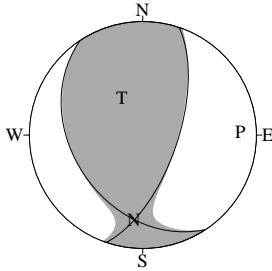
Cent.:35° 0.1'N 140°36.9'E 54km $\Delta t = 3.7$
 Mo: 1.00×10^{18} N·m Mw:5.9 Mj:6.0 (sec)
 mrr: 0.10 mtt: 0.71 mff:-0.81
 mrt:-0.10 mrf: 0.28 mtf:-0.58 ($\times 10^{18}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:244° 73° 179° P-axis:-1.05 107° 11°
 NP2:334° 89° 17° T-axis: 0.95 200° 13°
 N-axis: 0.11 337° 73°
 V.R.: 79% ϵ :-0.10 N:15 COMP:32

2018/07/10 13:55:55.4
 E OFF AOMORI PREF
 Hypo.:41°32.9'N 142° 4.4'E 68km



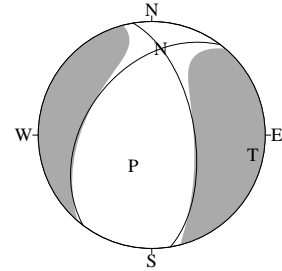
Cent.:41°33.9'N 142° 4.8'E 57km $\Delta t = 3.1$
 Mo: 3.60×10^{16} N·m Mw:5.0 Mj:4.9 (sec)
 mrr: 2.96 mtt:-0.42 mff:-2.54
 mrt: 0.94 mrf: 1.93 mtf:-0.84 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 23° 63° 93° P-axis:-3.53 111° 18°
 NP2:196° 27° 83° T-axis: 3.68 301° 72°
 N-axis:-0.14 202° 3°
 V.R.: 84% ϵ : 0.04 N:15 COMP:32

2018/07/10 14:23:42.4
 FAR E OFF IBARAKI PREF
 Hypo.:36°13.1'N 141°34.2'E 60km



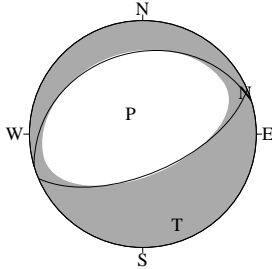
Cent.:36°13.9'N 141°34.8'E 20km $\Delta t = 0.6$
 Mo: 1.61×10^{16} N·m Mw:4.7 Mj:4.8 (sec)
 mrr: 1.07 mtt: 0.37 mff:-1.44
 mrt: 0.56 mrf: 0.75 mtf: 0.22 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 19° 65° 119° P-axis:-1.65 88° 15°
 NP2:146° 38° 44° T-axis: 1.58 331° 59°
 N-axis: 0.07 186° 26°
 V.R.: 80% ϵ :-0.04 N:36 COMP:47

2018/07/12 17:39:23.1
 E OFF MIYAGI PREF
 Hypo.:38°15.8'N 142° 9.4'E 39km



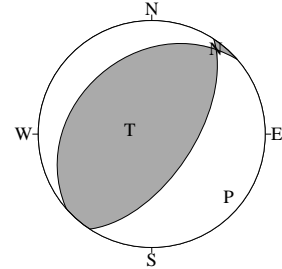
Cent.:38° 8.2'N 142° 9.8'E 37km $\Delta t = 0.9$
 Mo: 1.69×10^{16} N·m Mw:4.8 Mj:4.9 (sec)
 mrr:-1.26 mtt:-0.36 mff: 1.61
 mrt: 0.40 mrf:-0.61 mtf: 0.48 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:351° 59°-119° P-axis:-1.58 211° 64°
 NP2:217° 41° -51° T-axis: 1.81 101° 10°
 N-axis:-0.23 6° 24°
 V.R.: 81% ϵ : 0.13 N:46 COMP:62

2018/07/13 17:19:33.1
 SW OFF KYUSHU
 Hypo.:31°47.9'N 128°53.5'E 28km



Cent.:31°47.9'N 128°54.0'E 20km $\Delta t = 0.5$
 Mo: 6.97×10^{15} N·m Mw:4.5 Mj:4.3 (sec)
 mrr:-6.12 mtt: 5.02 mff: 1.10
 mrt:-3.39 mrf:-1.68 mtf: 1.60 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 67° 61° -93° P-axis:-7.24 329° 73°
 NP2:253° 29° -84° T-axis: 6.69 159° 16°
 N-axis: 0.55 68° 3°
 V.R.: 82% ϵ :-0.08 N:8 COMP:9

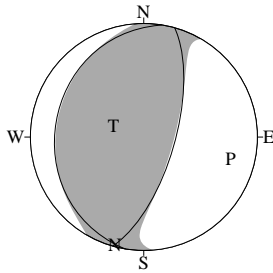
2018/07/16 02:13:39.5
 HIDAKA MOUNTAINS REGION
 Hypo.:42°19.2'N 142°59.8'E 55km



Cent.:42°15.4'N 142°59.8'E 56km $\Delta t = 1.8$
 Mo: 4.73×10^{16} N·m Mw:5.1 Mj:4.9 (sec)
 mrr: 4.07 mtt:-1.74 mff:-2.33
 mrt: 0.99 mrf: 2.12 mtf:-2.10 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 33° 60° 82° P-axis:-4.73 129° 14°
 NP2:229° 31° 104° T-axis: 4.73 282° 74°
 N-axis: 0.00 37° 7°
 V.R.: 81% ϵ : 0.00 N:33 COMP:54

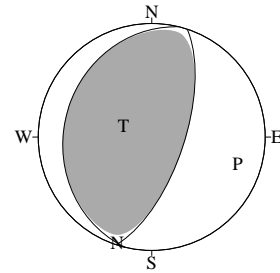
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2018/07/16 11:51:57.2
 NEAR CHOSHI CITY
 Hypo.:35°33.8'N 141° 5.9'E 38km



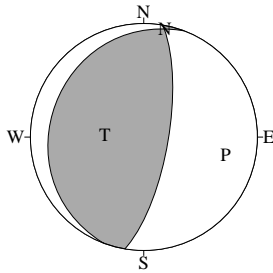
Cent.:35°37.0'N 141° 6.5'E 37km $\Delta t = 0.6$
 Mo: 1.80×10^{16} N·m Mw:4.8 Mj:4.6 (sec)
 mrr: 1.20 mtt: 0.06 mff:-1.27
 mrt: 0.37 mrf: 1.22 mtf:-0.32 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 16° 68° 93° P-axis: -1.86 104° 22°
 NP2: 189° 23° 84° T-axis: 1.73 290° 67°
 N-axis: 0.13 195° 2°
 V.R.: 77% ϵ : -0.07 N:46 COMP:60

2018/07/17 04:34:12.1
 NORTHERN IBARAKI PREF
 Hypo.:36°25.8'N 140°41.5'E 52km



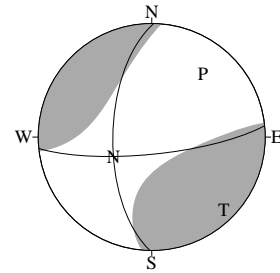
Cent.:36°29.6'N 140°41.9'E 52km $\Delta t = 0.6$
 Mo: 1.58×10^{16} N·m Mw:4.7 Mj:4.8 (sec)
 mrr: 1.16 mtt:-0.11 mff:-1.05
 mrt: 0.36 mrf: 1.02 mtf:-0.29 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 18° 67° 92° P-axis: -1.56 107° 22°
 NP2: 193° 23° 85° T-axis: 1.59 292° 68°
 N-axis: -0.03 198° 2°
 V.R.: 79% ϵ : 0.02 N:47 COMP:66

2018/07/17 04:42:52.3
 NORTHERN IBARAKI PREF
 Hypo.:36°26.0'N 140°41.0'E 52km



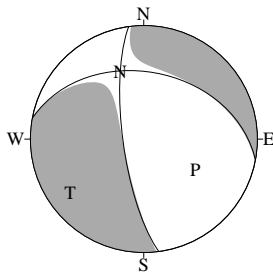
Cent.:36°25.9'N 140°41.5'E 52km $\Delta t = 0.3$
 Mo: 2.02×10^{15} N·m Mw:4.1 Mj:4.1 (sec)
 mrr: 1.16 mtt:-0.07 mff:-1.10
 mrt: 0.24 mrf: 1.63 mtf:-0.30 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 10° 72° 87° P-axis: -2.02 102° 27°
 NP2: 201° 18° 100° T-axis: 2.02 274° 62°
 N-axis: 0.00 11° 3°
 V.R.: 70% ϵ : 0.00 N:6 COMP:8

2018/07/18 03:42:37.1
 SW OFF KYUSHU
 Hypo.:31°19.5'N 128° 5.8'E 5km



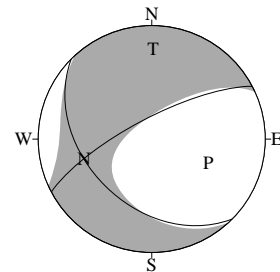
Cent.:31°19.5'N 128° 4.8'E 10km $\Delta t = 0.5$
 Mo: 8.21×10^{15} N·m Mw:4.5 Mj:4.6 (sec)
 mrr: -3.17 mtt: 1.29 mff: 1.88
 mrt: -2.97 mrf: -0.35 mtf: 7.46 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 84° 78° -29° P-axis: -6.93 39° 29°
 NP2: 181° 62° -166° T-axis: 9.48 135° 11°
 N-axis: -2.55 243° 59°
 V.R.: 77% ϵ : 0.27 N:26 COMP:31

2018/07/18 16:44:51.7
 FAR E OFF IBARAKI PREF
 Hypo.:35°53.1'N 141°18.4'E 39km



Cent.:35°49.3'N 141°18.6'E 36km $\Delta t = 0.5$
 Mo: 1.27×10^{16} N·m Mw:4.7 Mj:4.5 (sec)
 mrr: -0.50 mtt: 0.18 mff: 0.32
 mrt: 0.03 mrf: 0.87 mtf:-0.82 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 281° 41° -157° P-axis: -1.23 121° 46°
 NP2: 172° 75° -52° T-axis: 1.31 234° 21°
 N-axis: -0.08 341° 37°
 V.R.: 80% ϵ : 0.06 N:42 COMP:68

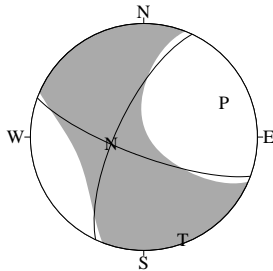
2018/07/24 06:37:45.4
 NEAR ETOROFU ISLAND
 Hypo.:44°39.1'N 148°19.9'E 150km



Cent.:44°54.0'N 148°20.2'E 143km $\Delta t = 1.8$
 Mo: 4.12×10^{16} N·m Mw:5.0 Mj:5.0 (sec)
 mrr: -1.54 mtt: 3.02 mff: -1.48
 mrt: 2.02 mrf: 2.35 mtf: -0.94 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 135° 41° -23° P-axis: -4.46 113° 45°
 NP2: 242° 75° -129° T-axis: 3.79 1° 21°
 N-axis: 0.68 254° 38°
 V.R.: 77% ϵ : -0.15 N:22 COMP:31

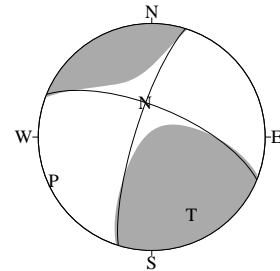
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2018/07/25 07:31:28.1
 NW KUMAMOTO PREF
 Hypo.:32°43.3'N 130°47.8'E 5km



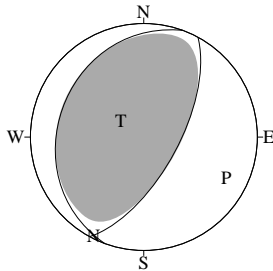
Cent.:32°43.3'N 130°48.0'E 10km $\Delta t = 0.3$
 Mo: $2.11 \times 10^{15} \text{N}\cdot\text{m}$ Mw:4.1 Mj:4.4 (sec)
 mrr: 0.12 mtt: 1.25 mff:-1.37
 mrt:-0.52 mrf: 0.99 mtf: 1.33 ($\times 10^{15} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1:205° 70° -166° P-axis:-2.42 67° 24°
 NP2:110° 77° -20° T-axis: 1.81 159° 4°
 N-axis: 0.61 258° 66°
 V.R.: 83% ϵ :-0.25 N:15 COMP:19

2018/07/25 13:20:28.4
 NEAR MINAMI-DAITAJIMA IS
 Hypo.:25°19.7'N 130°22.0'E 33km



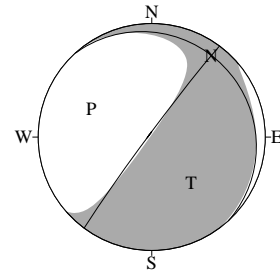
Cent.:25°14.8'N 130°22.2'E 10km $\Delta t = 2.4$
 Mo: $1.10 \times 10^{17} \text{N}\cdot\text{m}$ Mw:5.3 Mj:5.8 (sec)
 mrr: 0.06 mtt: 0.59 mff:-0.66
 mrt:-0.41 mrf:-0.32 mtf: 0.78 ($\times 10^{17} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1:197° 78° 158° P-axis:-1.00 246° 6°
 NP2:292° 68° 13° T-axis: 1.20 153° 24°
 N-axis:-0.20 349° 65°
 V.R.: 86% ϵ : 0.13 N:22 COMP:58

2018/07/26 02:46: 5.4
 E OFF FUKUSHIMA PREF
 Hypo.:37°32.0'N 141°23.2'E 51km



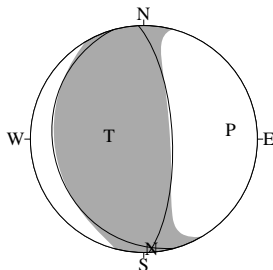
Cent.:37°31.9'N 141°23.2'E 51km $\Delta t = 0.5$
 Mo: $1.01 \times 10^{16} \text{N}\cdot\text{m}$ Mw:4.6 Mj:4.5 (sec)
 mrr: 0.79 mtt:-0.16 mff:-0.63
 mrt: 0.34 mrf: 0.56 mtf:-0.26 ($\times 10^{16} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1: 28° 65° 93° P-axis:-0.98 116° 20°
 NP2:200° 25° 83° T-axis: 1.03 305° 70°
 N-axis:-0.05 207° 3°
 V.R.: 82% ϵ : 0.05 N:40 COMP:53

2018/07/27 13:54:10.2
 NEAR ETOROFU ISLAND
 Hypo.:44°58.0'N 148° 8.4'E 154km



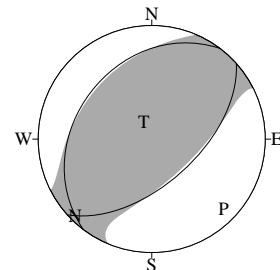
Cent.:45° 3.7'N 148° 8.8'E 145km $\Delta t = 1.3$
 Mo: $5.04 \times 10^{16} \text{N}\cdot\text{m}$ Mw:5.1 Mj:4.8 (sec)
 mrr: 0.17 mtt: 1.08 mff:-1.25
 mrt:-2.83 mrf:-4.01 mtf:-0.26 ($\times 10^{16} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1:217° 88° 102° P-axis:-5.30 295° 41°
 NP2:318° 12° 11° T-axis: 4.77 139° 46°
 N-axis: 0.53 36° 12°
 V.R.: 82% ϵ :-0.10 N:18 COMP:25

2018/07/28 09:50: 4.8
 NEAR TORISHIMA IS
 Hypo.:30°42.9'N 142° 5.4'E 46km



Cent.:30°40.1'N 142° 6.7'E 16km $\Delta t = 1.0$
 Mo: $3.53 \times 10^{16} \text{N}\cdot\text{m}$ Mw:5.0 Mj:4.7 (sec)
 mrr: 2.10 mtt: 0.39 mff:-2.49
 mrt:-0.07 mrf: 2.65 mtf: 0.42 ($\times 10^{16} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1:357° 69° 95° P-axis:-3.74 84° 24°
 NP2:164° 21° 78° T-axis: 3.32 275° 65°
 N-axis: 0.43 176° 4°
 V.R.: 85% ϵ :-0.11 N:23 COMP:42

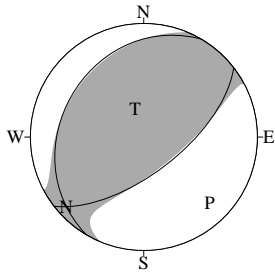
2018/07/29 17:12:31.7
 KURILE ISLANDS REGION
 Hypo.:45°37.7'N 151°59.7'E 30km



Cent.:45°38.2'N 152° 0.9'E 38km $\Delta t = 0.8$
 Mo: $3.31 \times 10^{16} \text{N}\cdot\text{m}$ Mw:4.9 Mj:5.1 (sec)
 mrr: 2.76 mtt:-1.26 mff:-1.51
 mrt: 1.15 mrf: 0.86 mtf:-1.82 ($\times 10^{16} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1: 48° 58° 96° P-axis:-3.53 134° 13°
 NP2:217° 33° 81° T-axis: 3.10 336° 76°
 N-axis: 0.42 225° 5°
 V.R.: 73% ϵ :-0.12 N:12 COMP:16

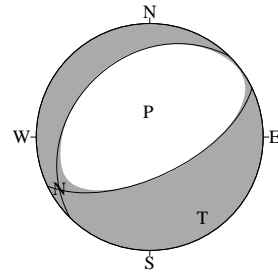
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2018/07/29 22:00:53.0
 KURILE ISLANDS REGION
 Hypo.: 45°49.5'N 151°48.8'E 30km



Cent.: 45°37.4'N 151°50.0'E 31km $\Delta t = 1.2$
 Mo: 6.47×10^{16} N·m Mw: 5.1 Mj: 5.1 (sec)
 mrr: 4.73 mtt: -2.06 mff: -2.67
 mrt: 3.37 mrf: 2.13 mtf: -3.05 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 52° 64° 100° P-axis: -6.73 135° 19°
 NP2: 210° 27° 70° T-axis: 6.20 343° 69°
 N-axis: 0.53 228° 9°
 V.R.: 75% ϵ : -0.08 N: 7 COMP: 14

2018/07/31 17:42:20.2
 E OFF FUKUSHIMA PREF
 Hypo.: 37° 9.3'N 141°13.7'E 21km



Cent.: 37°11.5'N 141°14.1'E 13km $\Delta t = 4.0$
 Mo: 2.20×10^{17} N·m Mw: 5.5 Mj: 5.8 (sec)
 mrr: -1.87 mtt: 1.22 mff: 0.65
 mrt: -1.15 mrf: -0.33 mtf: 0.86 ($\times 10^{17}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 65° 61° -80° P-axis: -2.20 357° 72°
 NP2: 225° 30° -107° T-axis: 2.20 147° 16°
 N-axis: 0.10 240° 9°
 V.R.: 83% ϵ : -0.04 N: 24 COMP: 43

EQUAL AREA PROJECTON, LOWER HEMISPHERE.