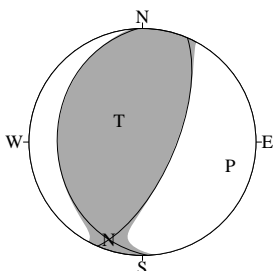


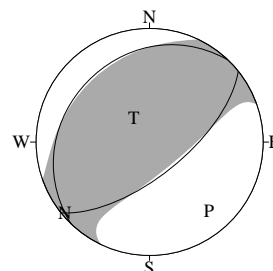
CMT SOLUTIONS FOR EARTHQUAKES IN JULY, 2019

2019/07/01 09:37:34.9
 E OFF AOMORI PREF
 Hypo.:41° 8.9'N 142°16.9'E 51km



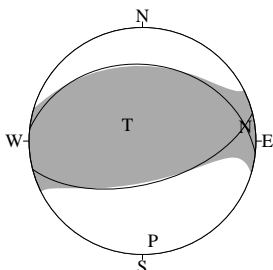
Cent.:41°10.3'N 142°17.2'E 49km $\Delta t = 2.6$
 Mo: 8.13×10^{16} N·m Mw:5.2 Mj:5.2 (sec)
 mrr: 5.66 mtt: 0.37 mff:-6.03
 mrt: 2.65 mrf: 4.82 mtf:-1.29 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 23° 67° 101° P-axis: -8.29 105° 21°
 NP2: 177° 26° 66° T-axis: 7.97 313° 67°
 N-axis: 0.32 199° 10°
 V.R.: 77% ϵ : -0.04 N:38 COMP:79

2019/07/08 22:54:21.5
 EASTERN YAMANASHI PREF
 Hypo.:35°30.3'N 139° 5.1'E 23km



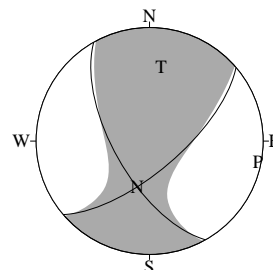
Cent.:35°30.3'N 139° 5.1'E 23km $\Delta t = 0.3$
 Mo: 2.64×10^{15} N·m Mw:4.2 Mj:4.3 (sec)
 mrr: 1.79 mtt:-1.03 mff:-0.76
 mrt: 1.38 mrf: 1.06 mtf:-1.27 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 51° 66° 93° P-axis: -2.82 139° 21°
 NP2: 224° 25° 83° T-axis: 2.45 328° 69°
 N-axis: 0.37 230° 3°
 V.R.: 74% ϵ : -0.13 N:12 COMP:16

2019/07/09 03:35:35.9
 NEAR ISHIGAKIJIMA ISLAND
 Hypo.:23°47.6'N 122°29.1'E 24km



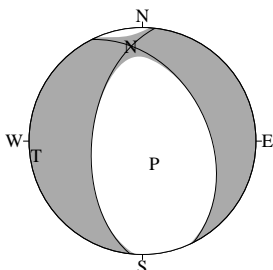
Cent.:23°47.5'N 122°29.5'E 24km $\Delta t = 0.6$
 Mo: 1.40×10^{16} N·m Mw:4.7 Mj:4.8 (sec)
 mrr: 1.14 mtt:-1.33 mff: 0.20
 mrt: 0.59 mrf: 0.25 mtf:-0.13 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 76° 59° 79° P-axis: -1.49 174° 13°
 NP2: 276° 33° 107° T-axis: 1.31 318° 74°
 N-axis: 0.17 82° 9°
 V.R.: 81% ϵ : -0.12 N:5 COMP:10

2019/07/09 20:33:28.3
 SOUTHERN SEA OF OKHOTSK
 Hypo.:47° 4.4'N 145°16.8'E 489km



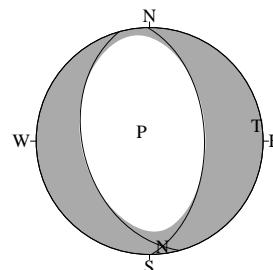
Cent.:47°11.8'N 145°14.7'E 459km $\Delta t = 3.7$
 Mo: 2.80×10^{17} N·m Mw:5.6 Mj:5.6 (sec)
 mrr: 1.11 mtt: 1.74 mff:-2.85
 mrt: 1.02 mrf: 0.02 mtf:-0.86 ($\times 10^{17}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 50° 69° 152° P-axis: -3.00 101° 3°
 NP2: 151° 64° 24° T-axis: 2.60 9° 34°
 N-axis: 0.40 195° 56°
 V.R.: 79% ϵ : -0.15 N:18 COMP:40

2019/07/12 06:21:57.2
 NEAR ISHIGAKIJIMA ISLAND
 Hypo.:23°54.2'N 122°53.8'E 29km



Cent.:24°10.8'N 122°53.4'E 27km $\Delta t = 5.3$
 Mo: 5.51×10^{16} N·m Mw:5.1 Mj:5.5 (sec)
 mrr: -4.99 mtt: -0.15 mff: 5.14
 mrt: 1.41 mrf: 1.33 mtf: -0.99 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 334° 42° -116° P-axis: -5.60 152° 72°
 NP2: 186° 53° -69° T-axis: 5.43 262° 6°
 N-axis: 0.16 353° 17°
 V.R.: 74% ϵ : -0.03 N:7 COMP:15

2019/07/13 09:57:43.0
 NW OFF AMAMI-OSHIMA IS
 Hypo.:29°14.1'N 128°10.7'E 256km

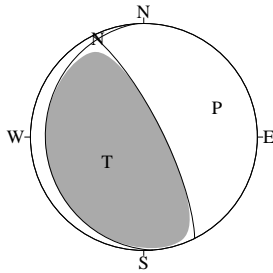


Cent.:29°15.7'N 128°12.4'E 262km $\Delta t = 4.9$
 Mo: 1.99×10^{18} N·m Mw:6.1 Mj:6.0 (sec)
 mrr: -1.99 mtt: 0.13 mff: 1.87
 mrt: -0.23 mrf: -0.34 mtf: -0.26 ($\times 10^{18}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 359° 50° -81° P-axis: -2.05 321° 81°
 NP2: 165° 41° -101° T-axis: 1.93 82° 5°
 N-axis: 0.13 173° 7°
 V.R.: 81% ϵ : -0.06 N:29 COMP:74

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

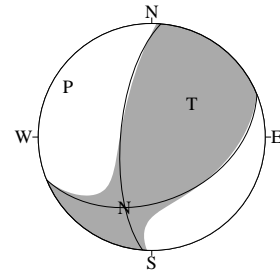
Hypo.: Location of hypocenter, Cent.: Location of centroid, Δt : Centroid time minus origin time
 Mo: Total scalar moment, Mw: Moment Magnitude, Mj: JMA Magnitude
 mrr, mtt, mff, mrt, mrf, mtf: Moment tensor components, STR, DIP, SLIP: Fault parameters of nodal plane
 MOM, AZM, PLG: Moment tensor component,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

2019/07/17 01:26: 1.5
 NEAR TORISHIMA IS
 Hypo.:30°42.0'N 142°17.1'E 33km



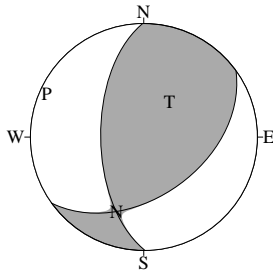
Cent.:30°41.8'N 142°20.1'E 10km $\Delta t = 0.6$
 Mo: $8.75 \times 10^{15} \text{N}\cdot\text{m}$ Mw:4.6 Mj:4.5 (sec)
 mrr: 4.06 mtt:-0.36 mff:-3.70
 mrt:-3.70 mrf: 6.85 mtf: 0.93 ($\times 10^{15} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1:333° 77° 85° P-axis:-8.60 68° 31°
 NP2:175° 14° 111° T-axis: 8.89 236° 58°
 N-axis:-0.29 335° 5°
 V.R.: 72% ϵ : 0.03 N:14 COMP:21

2019/07/17 18:00:20.5
 NORTHERN MIYAGI PREF
 Hypo.:38°57.9'N 141°36.8'E 78km



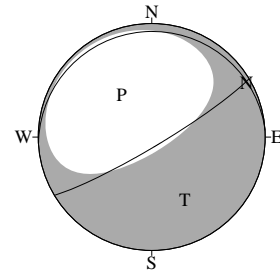
Cent.:38°57.9'N 141°36.8'E 78km $\Delta t = 0.5$
 Mo: $8.62 \times 10^{15} \text{N}\cdot\text{m}$ Mw:4.6 Mj:4.7 (sec)
 mrr: 4.82 mtt:-0.44 mff:-4.38
 mrt: 1.00 mrf:-4.79 mtf:-5.45 ($\times 10^{15} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1: 68° 43° 146° P-axis:-9.08 301° 15°
 NP2:185° 68° 53° T-axis: 8.17 50° 52°
 N-axis: 0.91 201° 34°
 V.R.: 75% ϵ :-0.10 N:48 COMP:74

2019/07/21 23:01:42.1
 SE OFF TOKACHI
 Hypo.:42°17.5'N 144°10.7'E 70km



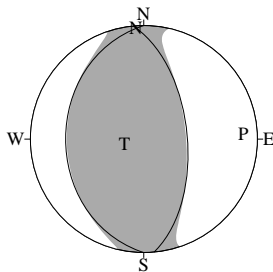
Cent.:42°17.5'N 144°10.6'E 70km $\Delta t = 0.4$
 Mo: $4.79 \times 10^{15} \text{N}\cdot\text{m}$ Mw:4.4 Mj:4.4 (sec)
 mrr: 3.40 mtt: 0.07 mff:-3.47
 mrt: 1.48 mrf:-1.76 mtf:-2.41 ($\times 10^{15} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1: 54° 47° 135° P-axis:-4.80 294° 7°
 NP2:179° 59° 53° T-axis: 4.78 36° 58°
 N-axis: 0.03 200° 31°
 V.R.: 80% ϵ :-0.01 N:17 COMP:21

2019/07/23 05:47: 0.6
 NW OFF ISHIGAKIJIMA IS
 Hypo.:25° 9.6'N 124°18.9'E 111km



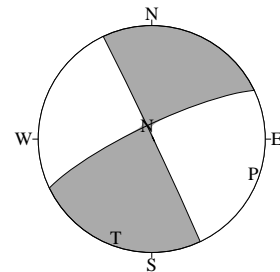
Cent.:25°11.5'N 124°19.2'E 113km $\Delta t = 1.2$
 Mo: $6.22 \times 10^{16} \text{N}\cdot\text{m}$ Mw:5.1 Mj:5.0 (sec)
 mrr:-2.23 mtt: 1.24 mff: 0.99
 mrt:-5.08 mrf:-3.26 mtf:-0.54 ($\times 10^{16} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1: 59° 83° -94° P-axis:-7.00 325° 52°
 NP2:267° 8° -62° T-axis: 5.45 152° 38°
 N-axis: 1.55 60° 4°
 V.R.: 88% ϵ :-0.22 N:7 COMP:13

2019/07/23 09:10: 8.0
 NEAR CHOSHI CITY
 Hypo.:35°39.6'N 140°45.0'E 49km



Cent.:35°39.6'N 140°46.4'E 49km $\Delta t = 0.5$
 Mo: $6.31 \times 10^{15} \text{N}\cdot\text{m}$ Mw:4.5 Mj:4.2 (sec)
 mrr: 5.39 mtt: 0.45 mff:-5.84
 mrt:-0.39 mrf: 2.83 mtf: 0.31 ($\times 10^{15} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1:355° 58° 87° P-axis:-6.53 87° 13°
 NP2:180° 32° 94° T-axis: 6.08 257° 76°
 N-axis: 0.45 356° 2°
 V.R.: 63% ϵ :-0.07 N:21 COMP:33

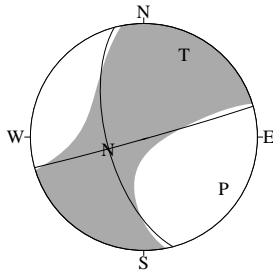
2019/07/25 07:14:22.6
 E OFF BOSO PENINSULA
 Hypo.:35° 8.8'N 140°34.1'E 58km



Cent.:34°59.6'N 140°34.8'E 47km $\Delta t = 1.4$
 Mo: $4.09 \times 10^{16} \text{N}\cdot\text{m}$ Mw:5.0 Mj:5.1 (sec)
 mrr: 0.04 mtt: 3.10 mff:-3.14
 mrt:-0.37 mrf: 0.62 mtf:-2.55 ($\times 10^{16} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1:245° 80° 179° P-axis:-4.10 109° 6°
 NP2:335° 89° 10° T-axis: 4.09 200° 8°
 N-axis: 0.01 341° 80°
 V.R.: 71% ϵ : 0.00 N:42 COMP:94

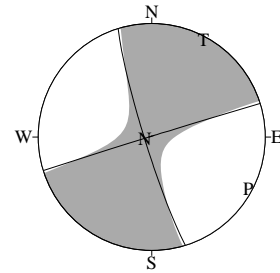
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2019/07/27 05:16:57.6
 PHILIPPINE ISL REGION
 Hypo.:20°55.5'N 121°51.9'E 24km



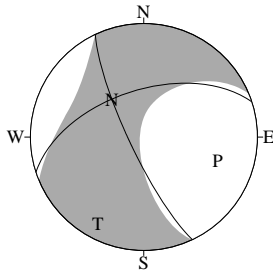
Cent.:20°41.8'N 121°54.2'E 18km $\Delta t = 1.4$
 Mo: $1.60 \times 10^{17} \text{N}\cdot\text{m}$ Mw:5.4 Mj:5.3 (sec)
 mrr: 0.29 mtt: 0.55 mff:-0.84
 mrt: 0.64 mrf: 0.37 mtf:-1.28 ($\times 10^{17} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1: 74° 88° 153° P-axis:-1.80 123° 17°
 NP2:165° 63° 2° T-axis: 1.40 26° 20°
 N-axis: 0.40 251° 63°
 V.R.: 65% ϵ :-0.20 N:18 COMP:35

2019/07/27 08:37:57.7
 PHILIPPINE ISL REGION
 Hypo.:20°50.5'N 121°54.2'E 31km



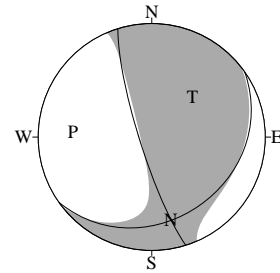
Cent.:20°36.4'N 121°55.0'E 24km $\Delta t = 1.1$
 Mo: $1.22 \times 10^{18} \text{N}\cdot\text{m}$ Mw:6.0 Mj:6.0 (sec)
 mrr: 0.10 mtt: 0.63 mff:-0.74
 mrt: 0.10 mrf: 0.06 mtf:-1.00 ($\times 10^{18} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1:253° 90°-175° P-axis:-1.27 118° 4°
 NP2:163° 85° 0° T-axis: 1.16 28° 3°
 N-axis: 0.11 258° 85°
 V.R.: 82% ϵ :-0.08 N:15 COMP:32

2019/07/27 10:24:42.8
 PHILIPPINE ISL REGION
 Hypo.:20°54.2'N 122° 0.7'E 13km



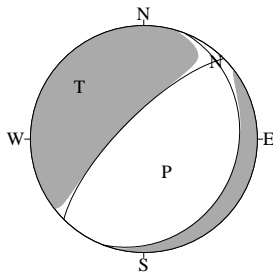
Cent.:20°47.7'N 122° 1.3'E 10km $\Delta t = 5.0$
 Mo: $5.70 \times 10^{17} \text{N}\cdot\text{m}$ Mw:5.8 Mj:5.8 (sec)
 mrr:-0.39 mtt: 3.49 mff:-3.09
 mrt: 0.36 mrf: 3.87 mtf:-2.98 ($\times 10^{17} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1:252° 56°-167° P-axis:-6.60 108° 32°
 NP2:155° 79° -35° T-axis: 4.90 208° 15°
 N-axis: 1.60 320° 54°
 V.R.: 83% ϵ :-0.25 N:11 COMP:22

2019/07/28 03:31: 6.7
 SE OFF KII PENINSULA
 Hypo.:33° 9.6'N 137°23.8'E 393km



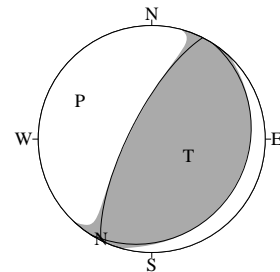
Cent.:33°10.8'N 137°23.8'E 383km $\Delta t = 3.9$
 Mo: $3.58 \times 10^{18} \text{N}\cdot\text{m}$ Mw:6.3 Mj:6.6 (sec)
 mrr: 0.88 mtt: 1.11 mff:-1.98
 mrt: 0.88 mrf:-2.92 mtf:-0.86 ($\times 10^{18} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1: 55° 27° 160° P-axis:-3.82 274° 31°
 NP2:163° 81° 64° T-axis: 3.34 45° 48°
 N-axis: 0.48 167° 26°
 V.R.: 83% ϵ :-0.12 N:31 COMP:67

2019/07/29 00:34:57.4
 NEAR CHOSHI CITY
 Hypo.:35°48.7'N 140°56.4'E 24km



Cent.:35°48.7'N 140°57.1'E 24km $\Delta t = 0.4$
 Mo: $3.60 \times 10^{15} \text{N}\cdot\text{m}$ Mw:4.3 Mj:4.3 (sec)
 mrr:-1.88 mtt: 0.50 mff: 1.38
 mrt: 2.18 mrf: 2.05 mtf: 1.08 ($\times 10^{15} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1: 21° 18°-112° P-axis:-3.53 145° 61°
 NP2:225° 73° -83° T-axis: 3.67 309° 28°
 N-axis:-0.15 43° 7°
 V.R.: 64% ϵ : 0.04 N:16 COMP:27

2019/07/30 05:37:43.9
 E OFF HACHIJOJIMA ISLAND
 Hypo.:32°54.7'N 140°46.6'E 59km



Cent.:32°54.4'N 140°49.2'E 45km $\Delta t = 0.2$
 Mo: $6.60 \times 10^{17} \text{N}\cdot\text{m}$ Mw:5.8 Mj:5.9 (sec)
 mrr: 3.46 mtt:-0.72 mff:-2.75
 mrt:-2.47 mrf:-5.02 mtf:-1.70 ($\times 10^{17} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1: 33° 16° 96° P-axis:-6.80 298° 29°
 NP2:207° 74° 88° T-axis: 6.50 114° 61°
 N-axis: 0.20 207° 2°
 V.R.: 80% ϵ :-0.04 N:33 COMP:68

EQUAL AREA PROJECTON, LOWER HEMISPHERE.