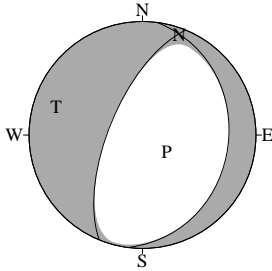


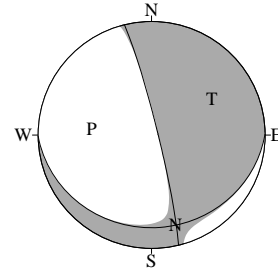
CMT SOLUTIONS FOR EARTHQUAKES IN JUNE, 2019

2019/06/01 07:58:10.6
 KUJUKURI COAST BOSO PEN
 Hypo.:35°22.1'N 140°17.6'E 35km



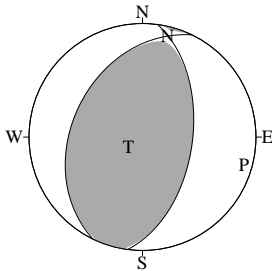
Cent.:35°25.0'N 140°17.6'E 36km $\Delta t = 0.6$
 Mo: 1.18×10^{16} N·m Mw:4.6 Mj:4.7 (sec)
 mrr:-0.89 mtt: 0.07 mff: 0.82
 mrt: 0.35 mrf: 0.70 mtf: 0.21 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 8° 25° -103° P-axis:-1.19 124° 69°
 NP2:202° 66° -84° T-axis: 1.16 288° 21°
 N-axis: 0.03 20° 6°
 V.R.: 82% ϵ :-0.03 N:40 COMP:76

2019/06/04 13:39:15.9
 NEAR TORISHIMA IS
 Hypo.:29° 3.3'N 139°39.7'E 445km



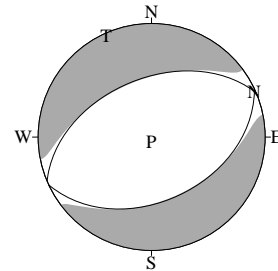
Cent.:29°16.2'N 139°40.8'E 448km $\Delta t = 3.2$
 Mo: 4.86×10^{18} N·m Mw:6.4 Mj:6.2 (sec)
 mrr:-0.80 mtt: 0.89 mff:-0.09
 mrt: 0.89 mrf:-4.46 mtf:-1.51 ($\times 10^{18}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:346° 85° -71° P-axis:-4.94 276° 46°
 NP2: 89° 19° -166° T-axis: 4.79 59° 38°
 N-axis: 0.15 165° 19°
 V.R.: 72% ϵ :-0.03 N:34 COMP:86

2019/06/04 18:46:18.2
 TAIWAN REGION
 Hypo.:22°48.4'N 121°36.0'E 32km



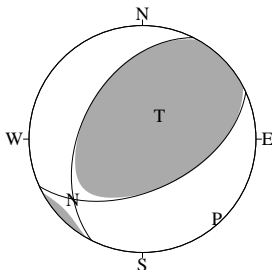
Cent.:22°52.9'N 121°36.2'E 17km $\Delta t = 3.5$
 Mo: 3.50×10^{17} N·m Mw:5.6 Mj:5.7 (sec)
 mrr: 3.34 mtt:-0.24 mff:-3.10
 mrt:-0.27 mrf: 1.08 mtf:-0.95 ($\times 10^{17}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 8° 54° 79° P-axis:-3.50 105° 8°
 NP2:206° 38° 105° T-axis: 3.60 237° 78°
 N-axis: 0.00 14° 9°
 V.R.: 72% ϵ : 0.01 N:14 COMP:28

2019/06/05 06:09:35.3
 E OFF FUKUSHIMA PREF
 Hypo.:37° 9.0'N 141°15.0'E 21km



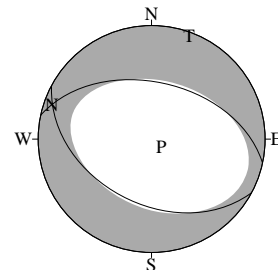
Cent.:37° 9.0'N 141°15.0'E 10km $\Delta t = 0.4$
 Mo: 3.27×10^{15} N·m Mw:4.3 Mj:4.5 (sec)
 mrr:-3.17 mtt: 2.76 mff: 0.41
 mrt: 0.26 mrf: 0.06 mtf: 1.30 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 65° 43° -92° P-axis:-3.18 181° 87°
 NP2:247° 47° -89° T-axis: 3.35 336° 2°
 N-axis:-0.17 66° 1°
 V.R.: 74% ϵ : 0.05 N:24 COMP:45

2019/06/11 10:21:18.1
 KINKAZAN REGION
 Hypo.:38°24.9'N 141°38.9'E 59km



Cent.:38°24.9'N 141°38.8'E 59km $\Delta t = 0.5$
 Mo: 6.47×10^{15} N·m Mw:4.5 Mj:4.5 (sec)
 mrr: 5.71 mtt:-2.96 mff:-2.75
 mrt: 2.19 mrf:-1.07 mtf:-3.40 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 65° 53° 116° P-axis:-6.31 137° 4°
 NP2:207° 45° 60° T-axis: 6.63 36° 69°
 N-axis:-0.31 229° 20°
 V.R.: 76% ϵ : 0.05 N:45 COMP:52

2019/06/13 09:56:13.2
 SE OFF ERIMOMISAKI
 Hypo.:41° 2.5'N 144° 9.7'E 63km

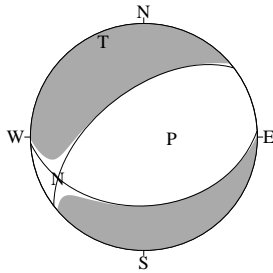


Cent.:41° 5.2'N 144° 9.4'E 17km $\Delta t = 2.2$
 Mo: 1.97×10^{16} N·m Mw:4.8 Mj:4.7 (sec)
 mrr:-2.06 mtt: 1.63 mff: 0.42
 mrt: 0.29 mrf: 0.25 mtf:-0.52 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:118° 43° -78° P-axis:-2.11 129° 81°
 NP2:282° 48° -101° T-axis: 1.84 20° 3°
 N-axis: 0.28 289° 8°
 V.R.: 81% ϵ :-0.13 N:32 COMP:70

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

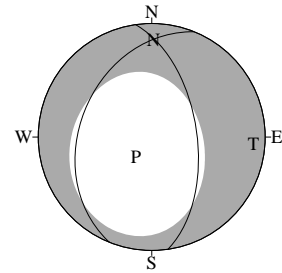
Hypo.:Location of hypocenter, Cent.:Location of centroid, Δt :Centroid time minus origin time
 Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude
 mrr,mtt,mff,mrt,mrf,mtf: Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane
 MOM,AZM,PLG: Moment tensor component, azimuth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

2019/06/15 13:47:45.2
 E OFF IWATE PREF
 Hypo.:39° 2.1'N 142°44.7'E 29km



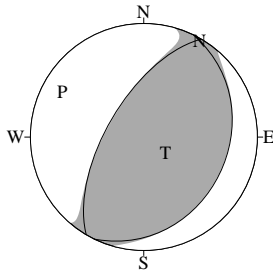
Cent.:38°59.0'N 142°44.8'E 34km $\Delta t = 0.6$
 Mo: 1.14×10^{16} N·m Mw:4.6 Mj:4.7 (sec)
 mrr:-0.97 mtt: 0.95 mff: 0.01
 mrt: 0.19 mrf: 0.41 mtf: 0.41 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 87° 39° -62° P-axis:-1.12 93° 70°
 NP2:232° 56° -111° T-axis: 1.16 337° 9°
 N-axis:-0.04 244° 17°
 V.R.: 74% ϵ : 0.04 N:22 COMP:30

2019/06/17 08:00: 9.4
 NORTHERN IBARAKI PREF
 Hypo.:36°30.9'N 140°35.0'E 77km



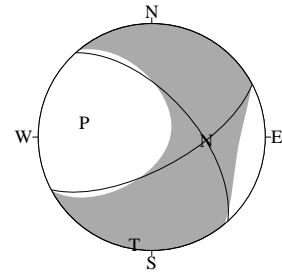
Cent.:36°37.6'N 140°34.8'E 81km $\Delta t = 2.8$
 Mo: 2.78×10^{16} N·m Mw:4.9 Mj:5.1 (sec)
 mrr:-2.79 mtt: 0.69 mff: 2.10
 mrt: 0.94 mrf:-1.04 mtf: 0.30 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:352° 57° -107° P-axis:-3.24 219° 72°
 NP2:202° 37° -65° T-axis: 2.32 94° 11°
 N-axis: 0.93 1° 15°
 V.R.: 81% ϵ :-0.29 N:55 COMP:85

2019/06/18 22:22:19.9
 W OFF YAMAGATA PREF
 Hypo.:38°36.4'N 139°28.7'E 14km



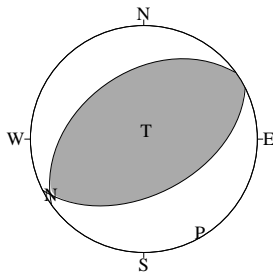
Cent.:38°38.6'N 139°28.9'E 13km $\Delta t = 6.5$
 Mo: 6.42×10^{18} N·m Mw:6.5 Mj:6.7 (sec)
 mrr: 4.99 mtt:-0.99 mff:-4.01
 mrt:-2.03 mrf:-3.29 mtf:-2.30 ($\times 10^{18}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 26° 27° 86° P-axis:-6.54 299° 19°
 NP2:210° 64° 92° T-axis: 6.29 125° 71°
 N-axis: 0.25 30° 2°
 V.R.: 86% ϵ :-0.04 N:23 COMP:59

2019/06/20 01:55:47.8
 SE OFF BOSO PENINSULA
 Hypo.:35° 0.6'N 140°11.7'E 76km



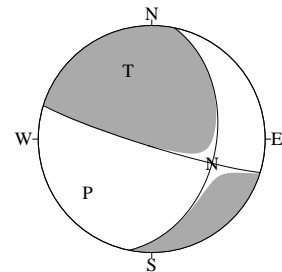
Cent.:35° 0.6'N 140°11.7'E 76km $\Delta t = 0.4$
 Mo: 5.10×10^{15} N·m Mw:4.4 Mj:4.4 (sec)
 mrr:-1.46 mtt: 4.11 mff:-2.65
 mrt:-0.97 mrf:-3.42 mtf:-1.35 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 62° 67° -147° P-axis:-5.81 282° 39°
 NP2:318° 60° -27° T-axis: 4.39 189° 4°
 N-axis: 1.42 94° 50°
 V.R.: 81% ϵ :-0.24 N:41 COMP:61

2019/06/24 09:11:44.1
 SOUTHERN BOSO PENINSULA
 Hypo.:34°55.7'N 139°57.8'E 61km



Cent.:34°56.9'N 139°57.9'E 54km $\Delta t = 5.1$
 Mo: 1.10×10^{17} N·m Mw:5.3 Mj:5.2 (sec)
 mrr: 1.12 mtt:-0.82 mff:-0.30
 mrt: 0.19 mrf: 0.01 mtf:-0.50 ($\times 10^{17}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 64° 49° 96° P-axis:-1.10 149° 4°
 NP2:234° 41° 83° T-axis: 1.10 17° 84°
 N-axis: 0.00 239° 5°
 V.R.: 85% ϵ : 0.01 N:38 COMP:95

2019/06/30 15:53:46.5
 KAMIKAWA-SORACHI REGION
 Hypo.:43°16.4'N 142°24.2'E 166km



Cent.:43°16.3'N 142°23.8'E 166km $\Delta t = 0.5$
 Mo: 5.76×10^{15} N·m Mw:4.4 Mj:4.5 (sec)
 mrr: 0.74 mtt: 1.56 mff:-2.29
 mrt: 4.16 mrf:-0.75 mtf: 3.35 ($\times 10^{15}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 11° 43° 172° P-axis:-5.66 230° 27°
 NP2:107° 85° 48° T-axis: 5.86 341° 36°
 N-axis:-0.21 112° 42°
 V.R.: 86% ϵ : 0.04 N:14 COMP:19

EQUAL AREA PROJECTON, LOWER HEMISPHERE.