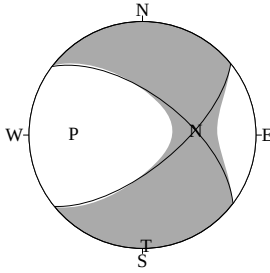


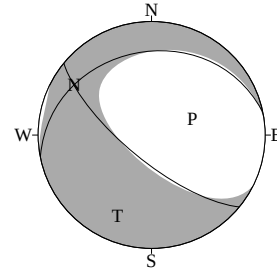
CMT SOLUTIONS FOR EARTHQUAKES IN JANUARY, 2019

2019/01/03 18:10:27.6
NORTHERN ARIAKEKAI REG
Hypo.:33° 1.6'N 130°33.2'E 10km



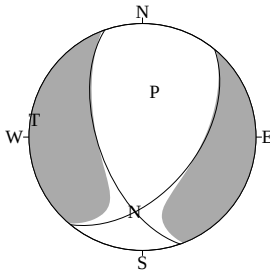
Cent.:32°59.2'N 130°33.1'E 12km $\Delta t = 3.3$
Mo: 2.52×10^{16} N·m Mw:4.9 Mj:5.1 (sec)
mrr:-0.87 mtt: 2.39 mff:-1.52
mrt:-0.12 mrf:-1.41 mtf: 0.05 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 51° 66° -149° P-axis:-2.65 271° 39°
NP2:307° 62° -27° T-axis: 2.40 178° 3°
N-axis: 0.25 85° 51°
V.R.: 87% ϵ :-0.09 N:36 COMP:74

2019/01/06 07:54:12.6
FAR E OFF OGASAWARA
Hypo.:26°24.0'N 144°44.5'E 0km



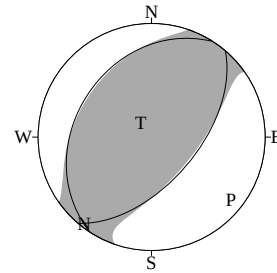
Cent.:25°53.1'N 144°44.8'E 21km $\Delta t = -0.5$
Mo: 5.40×10^{17} N·m Mw:5.8 Mj:5.9 (sec)
mrr:-3.22 mtt: 3.48 mff:-0.25
mrt:-2.58 mrf: 3.37 mtf:-0.62 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:129° 72° -69° P-axis:-5.80 68° 58°
NP2:258° 27° -138° T-axis: 5.00 203° 24°
N-axis: 0.80 303° 20°
V.R.: 87% ϵ :-0.14 N:20 COMP:47

2019/01/06 17:34:10.7
NORTHERN MIYAGI PREF
Hypo.:38°41.7'N 141°28.4'E 102km



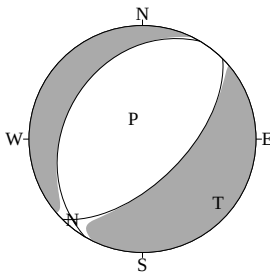
Cent.:38°41.7'N 141°28.4'E 102km $\Delta t = 0.5$
Mo: 9.31×10^{15} N·m Mw:4.6 Mj:4.5 (sec)
mrr:-6.26 mtt:-3.06 mff: 9.32
mrt:-3.46 mrf: 1.71 mtf: 2.18 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 40° 51° -43° P-axis:-8.84 15° 56°
NP2:161° 58° -131° T-axis: 9.77 279° 4°
N-axis:-0.93 186° 34°
V.R.: 88% ϵ : 0.09 N:14 COMP:16

2019/01/08 21:39:30.0
NEAR TANEGASHIMA ISLAND
Hypo.:30°34.3'N 131° 9.8'E 30km



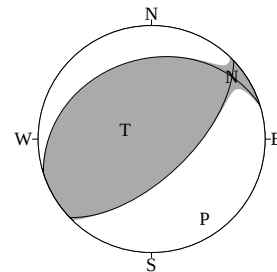
Cent.:30°36.9'N 131°10.6'E 34km $\Delta t = 11.5$
Mo: 4.32×10^{18} N·m Mw:6.4 Mj:6.0 (sec)
mrr: 3.70 mtt:-1.21 mff:-2.49
mrt: 1.28 mrf: 1.29 mtf:-2.20 ($\times 10^{18}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 41° 57° 94° P-axis:-4.54 128° 12°
NP2:213° 33° 83° T-axis: 4.11 324° 77°
N-axis: 0.43 218° 4°
V.R.: 80% ϵ :-0.09 N:26 COMP:48

2019/01/13 21:14:44.5
E OFF FUKUSHIMA PREF
Hypo.:37°14.4'N 141°23.5'E 22km



Cent.:37°11.0'N 141°23.4'E 10km $\Delta t = 1.6$
Mo: 2.59×10^{16} N·m Mw:4.9 Mj:4.9 (sec)
mrr:-2.21 mtt: 0.81 mff: 1.41
mrt:-0.99 mrf:-0.76 mtf: 1.17 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 45° 59° -82° P-axis:-2.55 336° 74°
NP2:210° 31° -103° T-axis: 2.62 130° 14°
N-axis:-0.07 221° 7°
V.R.: 94% ϵ : 0.03 N:9 COMP:17

2019/01/14 13:23:42.3
SW IBARAKI PREF
Hypo.:36° 9.7'N 139°48.6'E 53km

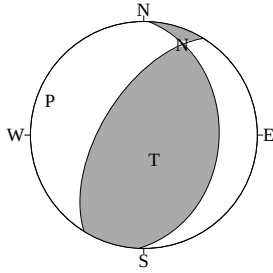


Cent.:36°13.4'N 139°48.7'E 55km $\Delta t = 0.8$
Mo: 2.06×10^{16} N·m Mw:4.8 Mj:4.9 (sec)
mrr: 1.63 mtt:-1.26 mff:-0.37
mrt: 0.70 mrf: 0.94 mtf:-0.83 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 46° 62° 77° P-axis:-2.08 146° 17°
NP2:252° 30° 113° T-axis: 2.04 290° 70°
N-axis: 0.04 52° 11°
V.R.: 81% ϵ :-0.02 N:35 COMP:49

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

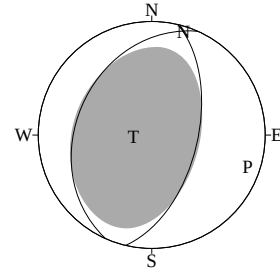
Hypo.:Location of hypocenter, Cent.:Location of centroid, Δt :Centroid time minus origin time
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude
mrr,mtt,mff,mrt,mrf,mtf:Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane
MOM,AZM,PLG:Moment tensor component, azimuth and plunge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

2019/01/15 20:27: 8.4
E OFF HACHIJOJIMA ISLAND
Hypo.:33°49.8'N 141° 3.1'E 54km



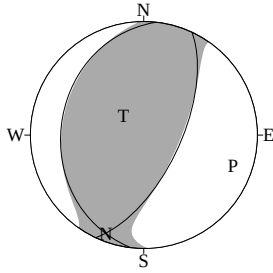
Cent.:33°49.8'N 141° 2.8'E 40km $\Delta t = 3.5$
Mo: 8.56×10^{15} N·m Mw:4.6 Mj:4.6 (sec)
mrr: 7.20 mtt:-0.20 mff:-7.00
mrt:-3.12 mrf:-2.81 mtf:-2.30 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 3° 34° 65° P-axis:-8.55 290° 13°
NP2:212° 60° 106° T-axis: 8.57 157° 71°
N-axis:-0.02 23° 14°
V.R.: 81% ϵ : 0.00 N:32 COMP:42

2019/01/18 21:46:25.1
SOUTHERN IBARAKI PREF
Hypo.:35°55.2'N 140°25.9'E 54km



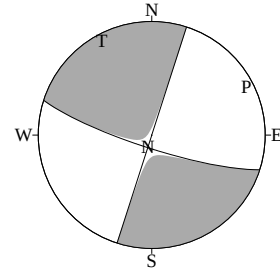
Cent.:35°54.3'N 140°25.5'E 60km $\Delta t = 7.3$
Mo: 7.34×10^{16} N·m Mw:5.2 Mj:5.3 (sec)
mrr: 7.17 mtt:-1.49 mff:-5.68
mrt: 0.16 mrf: 2.97 mtf:-1.66 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 13° 57° 84° P-axis:-6.85 108° 12°
NP2:204° 34° 99° T-axis: 7.83 264° 77°
N-axis:-0.98 17° 5°
V.R.: 88% ϵ : 0.12 N:38 COMP:77

2019/01/19 05:04: 1.1
E OFF AOMORI PREF
Hypo.:40°44.3'N 142°33.8'E 29km



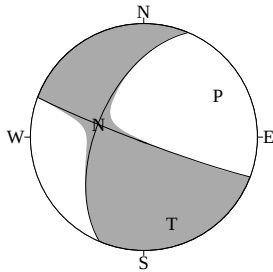
Cent.:40°41.4'N 142°33.9'E 43km $\Delta t = 1.0$
Mo: 2.79×10^{16} N·m Mw:4.9 Mj:4.9 (sec)
mrr: 2.09 mtt: 0.06 mff:-2.15
mrt: 0.84 mrf: 1.45 mtf:-0.71 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 25° 64° 99° P-axis:-2.89 109° 18°
NP2:186° 28° 73° T-axis: 2.69 313° 70°
N-axis: 0.21 201° 8°
V.R.: 79% ϵ :-0.07 N:28 COMP:39

2019/01/24 20:36:10.5
SW OFF KYUSHU
Hypo.:31°51.4'N 129° 9.0'E 9km



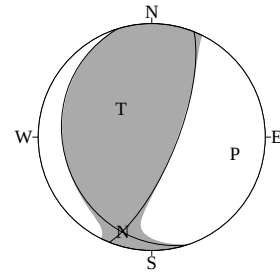
Cent.:31°44.7'N 129° 9.0'E 11km $\Delta t = 1.0$
Mo: 9.23×10^{15} N·m Mw:4.6 Mj:4.5 (sec)
mrr:-0.14 mtt: 5.37 mff:-5.22
mrt: 0.50 mrf: 1.43 mtf: 7.40 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 18° 90° 171° P-axis:-9.15 63° 7°
NP2:108° 81° 0° T-axis: 9.30 332° 7°
N-axis:-0.15 198° 81°
V.R.: 86% ϵ : 0.02 N:18 COMP:33

2019/01/25 14:41:34.5
SW OFF KYUSHU
Hypo.:31°51.0'N 129°10.7'E 7km



Cent.:31°50.3'N 129°10.7'E 10km $\Delta t = 0.6$
Mo: 1.19×10^{16} N·m Mw:4.7 Mj:4.6 (sec)
mrr:-0.06 mtt: 0.70 mff:-0.64
mrt:-0.60 mrf: 0.32 mtf: 0.72 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:203° 56° -176° P-axis:-1.21 61° 26°
NP2:111° 87° -34° T-axis: 1.17 162° 21°
N-axis: 0.04 286° 56°
V.R.: 83% ϵ :-0.04 N:12 COMP:12

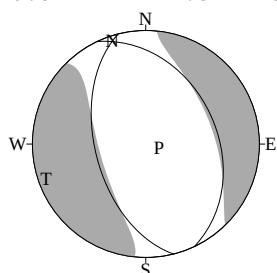
2019/01/26 17:23: 1.6
NE OFF IWATE PREF
Hypo.:40°16.8'N 142°19.6'E 38km



Cent.:40°15.3'N 142°19.6'E 47km $\Delta t = 1.7$
Mo: 3.00×10^{17} N·m Mw:5.6 Mj:5.6 (sec)
mrr: 1.64 mtt: 0.36 mff:-2.00
mrt: 1.04 mrf: 2.11 mtf:-0.14 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 22° 72° 104° P-axis:-3.10 101° 26°
NP2:162° 23° 53° T-axis: 2.90 313° 60°
N-axis: 0.10 197° 14°
V.R.: 80% ϵ :-0.05 N:14 COMP:23

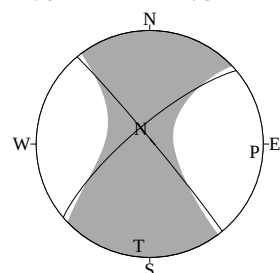
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2019/01/29 12:42:24.3
E OFF BOSO PENINSULA
Hypo.:35° 0.3'N 141° 7.3'E 50km



Cent.:35° 5.1'N 141° 7.0'E 32km $\Delta t = 2.8$
Mo: 9.52×10^{16} N·m Mw:5.3 Mj:5.2 (sec)
mrr:-8.01 mtt:-0.86 mff: 8.87
mrt:-0.29 mrf: 2.65 mtf:-3.91 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:335° 37° -99° P-axis:-8.43 106° 80°
NP2:166° 53° -83° T-axis:10.61 251° 8°
N-axis:-2.18 342° 5°
V.R.: 83% ϵ : 0.21 N:45 COMP:76

2019/01/30 14:21:34.7
TAIWAN REGION
Hypo.:23°41.6'N 122°22.3'E 29km



Cent.:23°33.1'N 122°22.6'E 27km $\Delta t = 2.4$
Mo: 1.40×10^{17} N·m Mw:5.4 Mj:5.6 (sec)
mrr: 0.29 mtt: 1.17 mff:-1.46
mrt:-0.16 mrf: 0.25 mtf:-0.22 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:230° 77° 177° P-axis:-1.50 94° 8°
NP2:320° 88° 13° T-axis: 1.20 186° 11°
N-axis: 0.30 331° 77°
V.R.: 75% ϵ :-0.19 N:11 COMP:19

EQUAL AREA PROJECTON, LOWER HEMISPHERE.