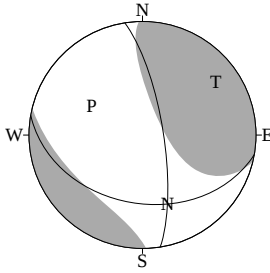


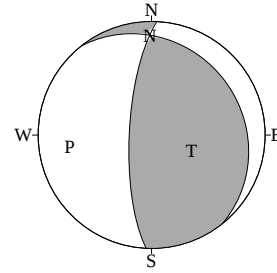
CMT SOLUTIONS FOR EARTHQUAKES IN NOVEMBER, 2018

2018/11/02 16:53:54.1
S PART OF KII CHANNEL
Hypo.:33°41.7'N 135°11.7'E 44km



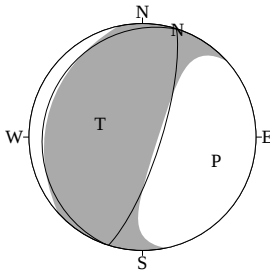
Cent.:33°40.9'N 135°11.7'E 35km $\Delta t = 3.2$
Mo: 1.50×10^{17} N·m Mw:5.4 Mj:5.4 (sec)
mrr:-0.59 mtt: 0.07 mff: 0.52
mrt: 0.30 mrf:-0.91 mtf:-1.08 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:351° 75° -53° P-axis:-1.20 300° 47°
NP2:100° 40° -156° T-axis: 1.80 54° 21°
N-axis:-0.60 160° 36°
V.R.: 92% ϵ : 0.32 N:35 COMP:94

2018/11/02 20:01:13.9
SOUTHERN SEA OF OKHOTSK
Hypo.:47° 8.5'N 147° 6.5'E 487km



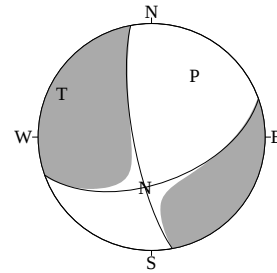
Cent.:47°44.7'N 147° 1.2'E 471km $\Delta t = -0.2$
Mo: 1.16×10^{18} N·m Mw:6.0 Mj:6.1 (sec)
mrr: 0.60 mtt: 0.02 mff:-0.61
mrt:-0.12 mrf:-0.95 mtf: 0.23 ($\times 10^{18}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:322° 21° 51° P-axis:-1.15 262° 28°
NP2:183° 74° 103° T-axis: 1.16 111° 59°
N-axis:-0.01 359° 13°
V.R.: 79% ϵ : 0.01 N:20 COMP:41

2018/11/03 03:19:31.6
FAR E OFF IBARAKI PREF
Hypo.:36°21.5'N 141°47.8'E 61km



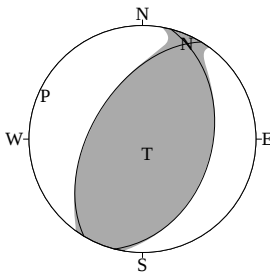
Cent.:36°21.6'N 141°48.2'E 10km $\Delta t = 0.5$
Mo: 8.70×10^{15} N·m Mw:4.6 Mj:4.8 (sec)
mrr: 3.10 mtt: 1.00 mff:-4.09
mrt: 2.33 mrf: 7.42 mtf:-1.83 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 17° 77° 90° P-axis:-9.49 108° 32°
NP2:199° 13° 91° T-axis: 7.91 287° 58°
N-axis: 1.58 18° 0°
V.R.: 88% ϵ :-0.17 N:21 COMP:25

2018/11/04 22:08:27.3
S OFF TOMAKOMAI
Hypo.:41°47.2'N 141°32.2'E 108km



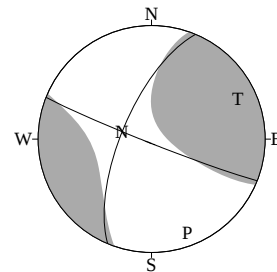
Cent.:41°47.2'N 141°32.1'E 108km $\Delta t = 0.5$
Mo: 6.20×10^{15} N·m Mw:4.5 Mj:4.2 (sec)
mrr:-1.75 mtt:-1.75 mff: 3.50
mrt:-1.42 mrf: 2.87 mtf: 4.37 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 71° 56° -16° P-axis:-5.99 35° 34°
NP2:169° 77° -145° T-axis: 6.41 296° 13°
N-axis:-0.42 187° 53°
V.R.: 85% ϵ : 0.06 N:16 COMP:22

2018/11/05 04:26: 1.6
NEAR KUNASHIRI ISLAND
Hypo.:44°36.5'N 145°48.3'E 20km



Cent.:44°24.9'N 145°48.0'E 10km $\Delta t = 6.3$
Mo: 1.07×10^{18} N·m Mw:6.0 Mj:6.3 (sec)
mrr: 1.00 mtt:-0.11 mff:-0.89
mrt:-0.24 mrf:-0.19 mtf:-0.40 ($\times 10^{18}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 15° 38° 77° P-axis:-1.09 294° 7°
NP2:211° 53° 100° T-axis: 1.05 162° 79°
N-axis: 0.04 25° 8°
V.R.: 78% ϵ :-0.03 N:17 COMP:34

2018/11/05 08:19:16.8
S PART OF KII CHANNEL
Hypo.:33°43.6'N 135°17.0'E 45km

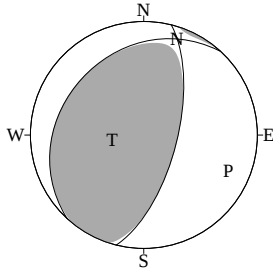


Cent.:33°43.6'N 135°17.1'E 45km $\Delta t = 0.5$
Mo: 8.00×10^{15} N·m Mw:4.5 Mj:4.6 (sec)
mrr:-1.16 mtt:-4.44 mff: 5.61
mrt: 2.35 mrf:-2.36 mtf:-5.41 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:203° 68° 3° P-axis:-7.08 159° 13°
NP2:112° 87° 158° T-axis: 8.93 65° 17°
N-axis:-1.85 284° 68°
V.R.: 83% ϵ : 0.21 N:23 COMP:33

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

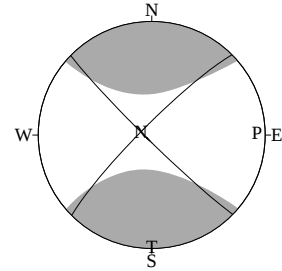
Hypo.:Location of hypocenter, Cent.:Location of centroid, Δt :Centroid time minus origin time
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude
mrr,mtt,mff,mrt,mrf,mtf:Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane
MOM,AZM,PLG:Moment tensor component, azimuth and plunge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

2018/11/05 23:46:57.5
NEAR AMAMI-OSHIMA ISLAND
Hypo.:29°16.1'N 130°36.5'E 62km



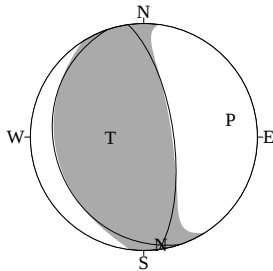
Cent.:29° 1.2'N 130°39.3'E 42km $\Delta t = 1.8$
Mo: 6.92×10^{16} N·m Mw:5.2 Mj:4.9 (sec)
mrr: 5.11 mtt:-1.07 mff:-4.04
mrt: 0.46 mrf: 4.53 mtf:-2.31 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 14° 66° 78° P-axis:-6.83 113° 20°
NP2:222° 27° 116° T-axis: 7.00 261° 67°
N-axis:-0.17 19° 11°
V.R.: 80% ϵ : 0.02 N:9 COMP:16

2018/11/08 06:05:11.2
FAR S OFF ISHIGAKIJIMA
Hypo.:22°47.9'N 122°34.4'E 45km



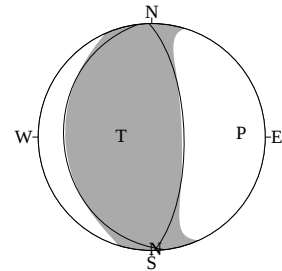
Cent.:22°50.1'N 122°34.8'E 11km $\Delta t = 3.5$
Mo: 2.26×10^{16} N·m Mw:4.8 Mj:4.9 (sec)
mrr:-0.69 mtt: 2.59 mff:-1.91
mrt:-0.13 mrf: 0.17 mtf: 0.02 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:225° 83°-176° P-axis:-1.93 89° 8°
NP2:134° 86° -7° T-axis: 2.60 180° 2°
N-axis:-0.67 286° 82°
V.R.: 94% ϵ : 0.26 N:8 COMP:12

2018/11/10 03:08:34.7
NEAR TORISHIMA IS
Hypo.:31°34.4'N 142° 1.3'E 21km



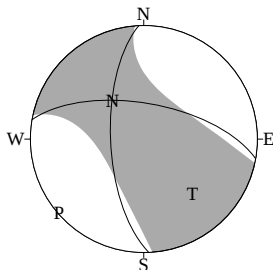
Cent.:31°34.4'N 141°59.7'E 10km $\Delta t = 6.6$
Mo: 1.18×10^{16} N·m Mw:4.6 Mj:4.6 (sec)
mrr: 0.75 mtt: 0.07 mff:-0.82
mrt:-0.10 mrf: 0.86 mtf: 0.21 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:352° 69° 94° P-axis:-1.24 79° 23°
NP2:162° 22° 80° T-axis: 1.13 269° 66°
N-axis: 0.11 171° 4°
V.R.: 86% ϵ :-0.09 N:22 COMP:34

2018/11/11 17:26:33.1
NEAR TORISHIMA IS
Hypo.:31°27.0'N 142° 5.4'E 0km



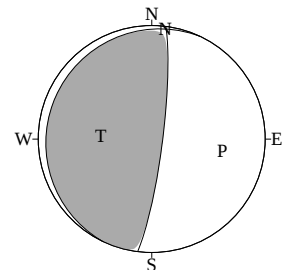
Cent.:31°27.0'N 142° 4.4'E 10km $\Delta t = 6.5$
Mo: 8.64×10^{15} N·m Mw:4.6 Mj:4.6 (sec)
mrr: 5.78 mtt: 0.94 mff:-6.71
mrt:-0.06 mrf: 5.95 mtf: 0.50 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:359° 67° 92° P-axis:-9.12 87° 22°
NP2:173° 23° 85° T-axis: 8.16 273° 68°
N-axis: 0.96 178° 2°
V.R.: 89% ϵ :-0.11 N:18 COMP:29

2018/11/14 19:07:30.1
ISHIKARI DEPRESSION
Hypo.:42°41.8'N 141°57.9'E 32km



Cent.:42°39.3'N 141°57.9'E 29km $\Delta t = 3.3$
Mo: 1.66×10^{16} N·m Mw:4.7 Mj:4.7 (sec)
mrr: 0.86 mtt:-0.23 mff:-0.64
mrt:-0.24 mrf:-0.29 mtf: 1.51 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1:280° 64° 27° P-axis:-1.95 229° 1°
NP2:177° 66° 152° T-axis: 1.36 138° 36°
N-axis: 0.59 321° 54°
V.R.: 88% ϵ :-0.30 N:17 COMP:33

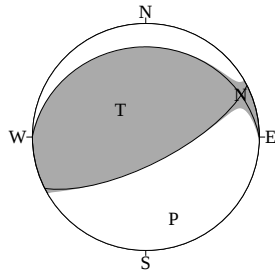
2018/11/21 04:09:49.9
NEAR TANEGASHIMA ISLAND
Hypo.:30°24.0'N 130° 9.0'E 123km



Cent.:30°30.3'N 130° 7.7'E 127km $\Delta t = 7.5$
Mo: 2.30×10^{17} N·m Mw:5.5 Mj:5.2 (sec)
mrr: 0.63 mtt:-0.05 mff:-0.57
mrt: 0.26 mrf: 2.20 mtf:-0.17 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 7° 82° 87° P-axis:-2.30 99° 37°
NP2:205° 8° 108° T-axis: 2.30 274° 53°
N-axis: 0.00 7° 2°
V.R.: 83% ϵ : 0.01 N:21 COMP:42

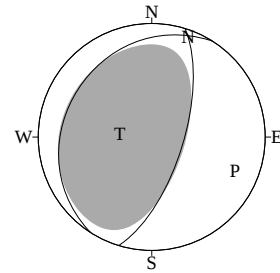
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2018/11/21 05:16: 3.7
SE OFF ETOROFU
Hypo.:44°10.2'N 148° 1.8'E 96km



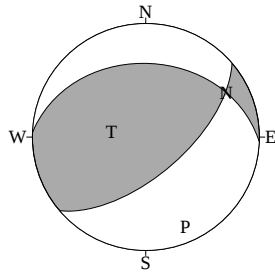
Cent.:44°10.2'N 148° 2.5'E 96km $\Delta t = 0.6$
Mo: 1.37×10^{16} N·m Mw:4.7 Mj:4.5 (sec)
mrr: 0.84 mtt:-0.86 mff: 0.02
mrt: 0.91 mrf: 0.54 mtf:-0.23 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 63° 70° 81° P-axis:-1.39 161° 25°
NP2:270° 22° 115° T-axis: 1.36 318° 63°
N-axis: 0.02 66° 9°
V.R.: 83% ϵ :-0.02 N:15 COMP:18

2018/11/23 23:30:14.1
E OFF FUKUSHIMA PREF
Hypo.:37° 4.3'N 141°10.3'E 50km



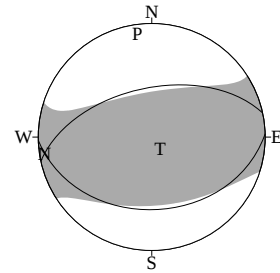
Cent.:37° 3.0'N 141°10.6'E 50km $\Delta t = 0.7$
Mo: 2.20×10^{16} N·m Mw:4.8 Mj:5.0 (sec)
mrr: 1.67 mtt:-0.44 mff:-1.23
mrt: 0.33 mrf: 1.50 mtf:-0.51 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 17° 67° 84° P-axis:-2.09 112° 22°
NP2:212° 24° 104° T-axis: 2.31 276° 67°
N-axis:-0.22 20° 6°
V.R.: 83% ϵ : 0.10 N:29 COMP:42

2018/11/27 08:33:51.1
SW IBARAKI PREF
Hypo.:36° 4.3'N 139°51.8'E 44km



Cent.:36° 1.6'N 139°51.9'E 51km $\Delta t = 1.6$
Mo: 3.08×10^{16} N·m Mw:4.9 Mj:5.0 (sec)
mrr: 2.32 mtt:-2.40 mff: 0.08
mrt: 0.88 mrf: 1.48 mtf:-0.98 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 49° 63° 67° P-axis:-3.08 156° 15°
NP2:272° 35° 127° T-axis: 3.08 279° 65°
N-axis: 0.00 61° 20°
V.R.: 83% ϵ : 0.00 N:20 COMP:36

2018/11/28 11:23:24.5
E OFF AOMORI PREF
Hypo.:41°20.2'N 143°13.3'E 11km



Cent.:41°24.0'N 143°13.5'E 17km $\Delta t = 3.1$
Mo: 2.20×10^{17} N·m Mw:5.5 Mj:5.7 (sec)
mrr: 1.83 mtt:-2.31 mff: 0.48
mrt:-0.67 mrf:-0.22 mtf:-0.37 ($\times 10^{17}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 88° 36° 98° P-axis:-2.50 352° 9°
NP2:258° 54° 84° T-axis: 2.00 143° 80°
N-axis: 0.50 261° 5°
V.R.: 85% ϵ :-0.21 N:22 COMP:55

EQUAL AREA PROJECTON, LOWER HEMISPHERE.