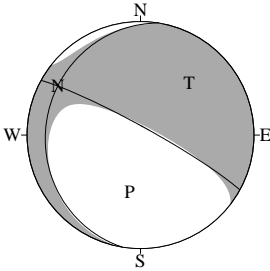


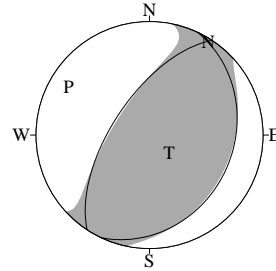
CMT SOLUTIONS FOR EARTHQUAKES IN NOVEMBER, 2017

2017/11/03 12:45:12.9  
SE OFF TOKACHI  
Hypo.:42°33.8'N 143°44.9'E 66km



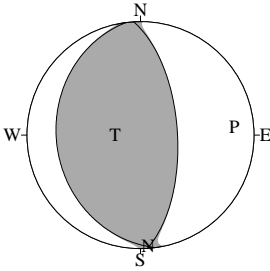
Cent.:42°42.4'N 143°44.4'E 68km  $\Delta t = 5.9$   
Mo:  $3.73 \times 10^{16}$  N·m Mw:5.0 Mj:5.0 (sec)  
mrr:-0.88 mtt:-0.37 mff:1.24  
mrt:3.19 mrf:-1.47 mtf:-0.66 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:189° 17° -20° P-axis:-3.91 191° 48°  
NP2:299° 84° -106° T-axis:3.56 43° 37°  
N-axis:0.35 301° 16°  
V.R.:82%  $\epsilon$ :-0.09 N:10 COMP:16

2017/11/05 06:05:43.1  
EASTERN AOMORI PREF  
Hypo.:40°39.3'N 141° 2.4'E 112km



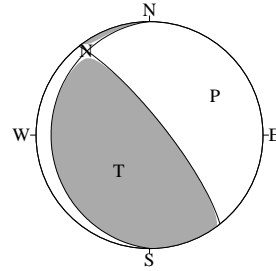
Cent.:40°39.4'N 141° 2.5'E 112km  $\Delta t = 0.5$   
Mo:  $1.02 \times 10^{16}$  N·m Mw:4.6 Mj:4.3 (sec)  
mrr:0.77 mtt:-0.14 mff:-0.63  
mrt:-0.35 mrf:-0.49 mtf:-0.41 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:25° 27° 82° P-axis:-1.06 301° 18°  
NP2:213° 63° 94° T-axis:0.97 132° 71°  
N-axis:0.09 32° 3°  
V.R.:82%  $\epsilon$ :-0.08 N:17 COMP:23

2017/11/09 16:42:10.8  
E OFF HACHIJOJIMA ISLAND  
Hypo.:32°38.4'N 141°28.1'E 10km



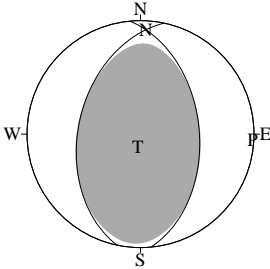
Cent.:32°39.2'N 141°30.4'E 13km  $\Delta t = 5.2$   
Mo:  $9.00 \times 10^{17}$  N·m Mw:5.9 Mj:5.9 (sec)  
mrr:7.16 mtt:0.03 mff:-7.19  
mrt:-0.20 mrf:5.37 mtf:0.69 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:357° 63° 92° P-axis:-9.00 85° 18°  
NP2:173° 27° 86° T-axis:8.90 271° 72°  
N-axis:0.10 176° 2°  
V.R.:75%  $\epsilon$ :-0.01 N:30 COMP:58

2017/11/10 03:45:45.5  
E OFF HACHIJOJIMA ISLAND  
Hypo.:32°35.5'N 141°26.9'E 11km



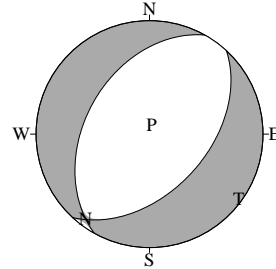
Cent.:32°36.6'N 141°29.3'E 10km  $\Delta t = 4.0$   
Mo:  $1.50 \times 10^{17}$  N·m Mw:5.4 Mj:5.2 (sec)  
mrr:0.56 mtt:-0.01 mff:-0.55  
mrt:-0.86 mrf:1.01 mtf:0.21 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:322° 79° 81° P-axis:-1.50 59° 33°  
NP2:179° 14° 127° T-axis:1.50 221° 56°  
N-axis:0.00 323° 8°  
V.R.:76%  $\epsilon$ :0.01 N:23 COMP:42

2017/11/11 01:38:20.6  
E OFF MIYAGI PREF  
Hypo.:38°22.0'N 141°50.2'E 59km



Cent.:38°22.0'N 141°50.5'E 59km  $\Delta t = 0.6$   
Mo:  $1.07 \times 10^{16}$  N·m Mw:4.6 Mj:4.7 (sec)  
mrr:1.07 mtt:-0.03 mff:-1.04  
mrt:-0.17 mrf:0.06 mtf:-0.06 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:355° 47° 78° P-axis:-1.05 93° 1°  
NP2:192° 44° 103° T-axis:1.10 192° 81°  
N-axis:-0.05 3° 9°  
V.R.:78%  $\epsilon$ :0.04 N:21 COMP:24

2017/11/13 07:24:8.5  
FAR E OFF NORTH HONSHU  
Hypo.:38° 0.3'N 144°48.3'E 56km

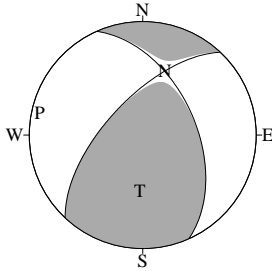


Cent.:38° 4.1'N 144°49.2'E 11km  $\Delta t = 1.8$   
Mo:  $8.60 \times 10^{17}$  N·m Mw:5.9 Mj:6.0 (sec)  
mrr:-8.49 mtt:2.89 mff:5.60  
mrt:-1.33 mrf:-0.09 mtf:4.12 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:43° 48° -81° P-axis:-8.70 13° 83°  
NP2:209° 43° -100° T-axis:8.60 126° 3°  
N-axis:0.00 217° 7°  
V.R.:85%  $\epsilon$ :0.00 N:22 COMP:51

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

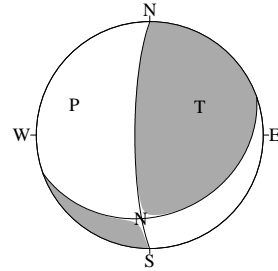
Hypo.:Location of hypocenter, Cent.:Location of centroid,  $\Delta t$ :Centroid time minus origin time  
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude  
mrr,mtt,mff,mrt,mrf,mtf:Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane  
MOM,AZM,PLG:Moment tensor component,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

2017/11/15 14:29:29.4  
S KOREAN PENINSULA REG  
Hypo.:36°11.7'N 129°23.6'E 11km



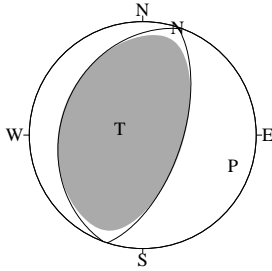
Cent.:36° 8.0'N 129°21.4'E 10km  $\Delta t=10.8$   
Mo:  $2.30 \times 10^{17}$ N·m Mw:5.5 Mj:5.6 (sec)  
mrr: 1.26 mtt: 0.89 mff:-2.15  
mrt:-1.25 mrf:-0.22 mtf:-0.52 ( $\times 10^{17}$ N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:336° 51° 34° P-axis:-2.30 282° 8°  
NP2:223° 64° 136° T-axis: 2.30 183° 49°  
N-axis: 0.00 19° 40°  
V.R.: 84%  $\epsilon$ : 0.02 N:25 COMP:47

2017/11/16 18:43:34.6  
E OFF HACHIJOJIMA ISLAND  
Hypo.:32°21.1'N 140°44.7'E 46km



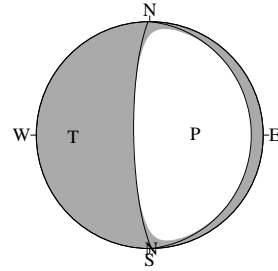
Cent.:32°13.8'N 140°44.7'E 53km  $\Delta t= 2.9$   
Mo:  $7.40 \times 10^{17}$ N·m Mw:5.8 Mj:6.0 (sec)  
mrr: 2.39 mtt:-0.05 mff:-2.34  
mrt: 0.66 mrf:-6.09 mtf:-3.33 ( $\times 10^{17}$ N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 70° 29° 158° P-axis:-7.30 292° 29°  
NP2:180° 79° 63° T-axis: 7.40 61° 48°  
N-axis:-0.10 186° 27°  
V.R.: 85%  $\epsilon$ : 0.01 N:23 COMP:55

2017/11/17 10:02:47.3  
E OFF FUKUSHIMA PREF  
Hypo.:37°10.9'N 141°22.9'E 48km



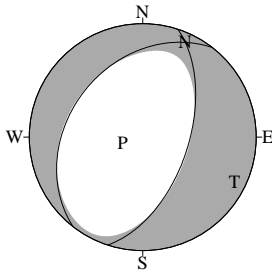
Cent.:37°10.9'N 141°23.2'E 48km  $\Delta t= 0.6$   
Mo:  $1.37 \times 10^{16}$ N·m Mw:4.7 Mj:4.8 (sec)  
mrr: 1.19 mtt:-0.18 mff:-1.00  
mrt: 0.22 mrf: 0.72 mtf:-0.33 ( $\times 10^{16}$ N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 18° 62° 89° P-axis:-1.34 109° 17°  
NP2:200° 29° 92° T-axis: 1.41 285° 73°  
N-axis:-0.07 18° 1°  
V.R.: 79%  $\epsilon$ : 0.05 N:33 COMP:50

2017/11/18 18:00:32.5  
NEAR TORISHIMA IS  
Hypo.:31°40.7'N 139°35.0'E 30km



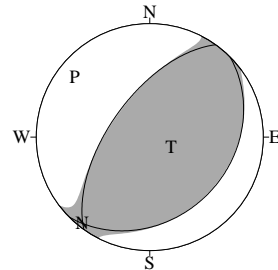
Cent.:31°40.7'N 139°35.5'E 10km  $\Delta t= 0.8$   
Mo:  $2.83 \times 10^{16}$ N·m Mw:4.9 Mj:4.8 (sec)  
mrr:-1.15 mtt: 0.08 mff: 1.07  
mrt:-0.04 mrf: 2.61 mtf:-0.01 ( $\times 10^{16}$ N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:360° 12° -90° P-axis:-2.88 89° 57°  
NP2:179° 78° -90° T-axis: 2.79 269° 33°  
N-axis: 0.08 179° 0°  
V.R.: 82%  $\epsilon$ :-0.03 N:35 COMP:45

2017/11/24 03:02:36.2  
NEAR MINAMI-DAITOUJIMA IS  
Hypo.:27°11.0'N 130°22.1'E 69km



Cent.:27° 0.0'N 130°22.3'E 12km  $\Delta t= 3.7$   
Mo:  $1.70 \times 10^{17}$ N·m Mw:5.4 Mj:5.4 (sec)  
mrr:-1.57 mtt: 0.39 mff: 1.19  
mrt:-0.01 mrf:-0.70 mtf: 0.61 ( $\times 10^{17}$ N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 18° 57° -101° P-axis:-1.70 255° 75°  
NP2:218° 35° -74° T-axis: 1.60 116° 11°  
N-axis: 0.10 24° 9°  
V.R.: 84%  $\epsilon$ :-0.06 N:23 COMP:41

2017/11/30 07:32:21.5  
NEAR ETOROFU ISLAND  
Hypo.:45°10.1'N 146°17.3'E 16km



Cent.:45° 9.5'N 146°17.5'E 11km  $\Delta t= 5.9$   
Mo:  $1.60 \times 10^{17}$ N·m Mw:5.4 Mj:5.4 (sec)  
mrr: 1.33 mtt:-0.54 mff:-0.79  
mrt:-0.46 mrf:-0.74 mtf:-0.73 ( $\times 10^{17}$ N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 45° 29° 98° P-axis:-1.70 309° 16°  
NP2:216° 61° 85° T-axis: 1.60 114° 73°  
N-axis: 0.10 218° 4°  
V.R.: 87%  $\epsilon$ :-0.04 N:8 COMP:14

EQUAL AREA PROJECTON, LOWER HEMISPHERE.