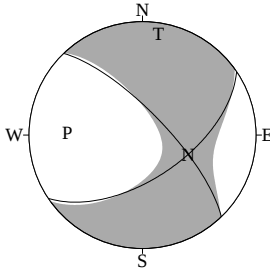


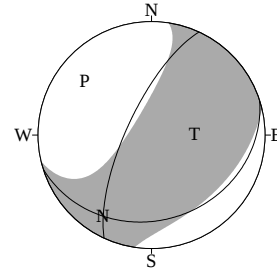
# CMT SOLUTIONS FOR EARTHQUAKES IN JANUARY, 2017

2017/01/03 03:35:21.2  
SE OFF KII PENINSULA  
Hypo.:34° 1.2'N 136°28.3'E 385km



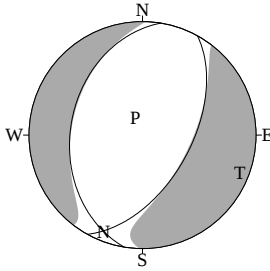
Cent.:34° 4.2'N 136°29.7'E 397km  $\Delta t = 0.4$   
Mo:  $3.61 \times 10^{16}$  N·m Mw:5.0 Mj:5.0 (sec)  
mrr:-0.81 mtt: 3.21 mff:-2.41  
mrt: 0.42 mrf:-2.08 mtf:-0.53 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 56° 59° -161° P-axis:-3.84 272° 34°  
NP2:316° 74° -33° T-axis: 3.37 9° 10°  
N-axis: 0.47 113° 54°  
V.R.: 80%  $\epsilon$ :-0.12 N:18 COMP:21

2017/01/05 00:43:59.1  
E OFF IBARAKI PREF  
Hypo.:36°51.7'N 140°58.7'E 56km



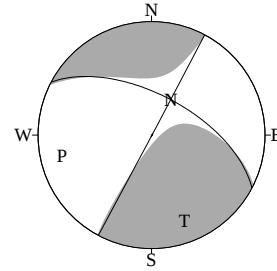
Cent.:36°46.9'N 140°59.5'E 42km  $\Delta t = 1.4$   
Mo:  $5.83 \times 10^{16}$  N·m Mw:5.1 Mj:5.3 (sec)  
mrr: 2.60 mtt:-1.01 mff:-1.59  
mrt:-2.02 mrf:-3.89 mtf:-3.48 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 72° 26° 135° P-axis:-6.74 309° 25°  
NP2:205° 72° 71° T-axis: 4.92 89° 59°  
N-axis: 1.82 211° 18°  
V.R.: 80%  $\epsilon$ :-0.27 N:15 COMP:25

2017/01/05 02:53:20.5  
E OFF FUKUSHIMA PREF  
Hypo.:37° 7.3'N 141°21.5'E 26km



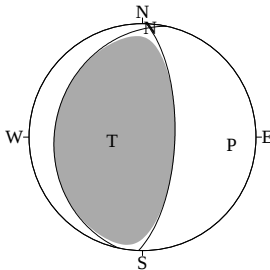
Cent.:37° 9.4'N 141°22.0'E 16km  $\Delta t = 6.4$   
Mo:  $1.10 \times 10^{17}$  N·m Mw:5.3 Mj:5.6 (sec)  
mrr:-0.93 mtt: 0.02 mff: 0.91  
mrt:-0.26 mrf:-0.26 mtf: 0.36 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 29° 55° -78° P-axis:-1.00 337° 77°  
NP2:189° 37° -106° T-axis: 1.10 111° 9°  
N-axis:-0.10 202° 9°  
V.R.: 75%  $\epsilon$ : 0.07 N:24 COMP:46

2017/01/13 02:04:55.6  
SEA OF JAPAN  
Hypo.:41°41.0'N 133°30.1'E 540km



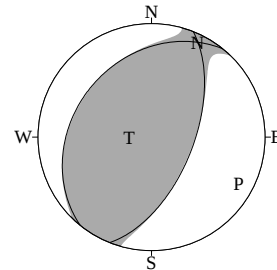
Cent.:41°39.3'N 133°29.1'E 515km  $\Delta t = 3.9$   
Mo:  $1.30 \times 10^{17}$  N·m Mw:5.3 Mj:5.5 (sec)  
mrr:-0.10 mtt: 0.94 mff:-0.85  
mrt:-0.36 mrf:-0.50 mtf: 0.64 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 28° 90° -151° P-axis:-1.20 257° 20°  
NP2:298° 61° 0° T-axis: 1.30 159° 20°  
N-axis:-0.10 29° 61°  
V.R.: 81%  $\epsilon$ : 0.10 N:21 COMP:30

2017/01/13 12:25:30.7  
NEAR CHOSHI CITY  
Hypo.:35°44.0'N 140°36.8'E 50km



Cent.:35°46.2'N 140°36.6'E 54km  $\Delta t = 5.5$   
Mo:  $4.88 \times 10^{16}$  N·m Mw:5.1 Mj:4.9 (sec)  
mrr: 3.60 mtt:-0.16 mff:-3.44  
mrt:-0.04 mrf: 3.35 mtf:-0.43 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 2° 67° 86° P-axis:-4.81 95° 22°  
NP2:192° 24° 100° T-axis: 4.95 264° 68°  
N-axis:-0.13 4° 4°  
V.R.: 83%  $\epsilon$ : 0.03 N:47 COMP:73

2017/01/18 17:19:25.8  
NORTHERN IBARAKI PREF  
Hypo.:36°25.7'N 140°38.5'E 53km

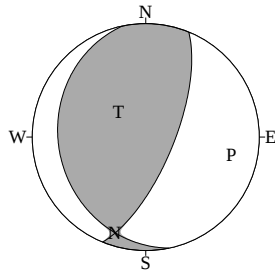


Cent.:36°25.8'N 140°39.0'E 53km  $\Delta t = 3.4$   
Mo:  $2.99 \times 10^{15}$  N·m Mw:4.3 Mj:4.2 (sec)  
mrr: 2.51 mtt:-0.54 mff:-1.97  
mrt: 0.34 mrf: 1.43 mtf:-1.24 ( $\times 10^{15}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 22° 60° 81° P-axis:-3.05 118° 14°  
NP2:219° 31° 105° T-axis: 2.93 269° 74°  
N-axis: 0.12 26° 8°  
V.R.: 73%  $\epsilon$ :-0.04 N:17 COMP:20

## EQUAL AREA PROJECTON, LOWER HEMISPHERE.

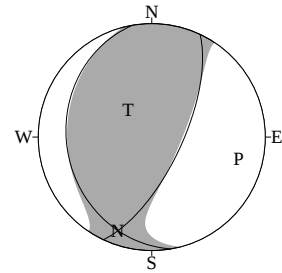
Hypo.:Location of hypocenter, Cent.:Location of centroid,  $\Delta t$ :Centroid time minus origin time  
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude  
mrr,mtt,mff,mrt,mrf,mtf:Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane  
MOM,AZM,PLG:Moment tensor component,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

2017/01/21 20:54:31.0  
E OFF AOMORI PREF  
Hypo.:40°33.4'N 142°32.3'E 29km



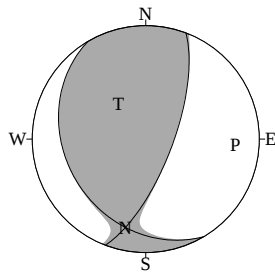
Cent.:40°33.4'N 142°32.4'E 40km  $\Delta t = 0.5$   
Mo:  $7.94 \times 10^{15} \text{N} \cdot \text{m}$  Mw:4.5 Mj:4.5 (sec)  
mrr: 5.00 mtt: 0.49 mff:-5.49  
mrt: 2.80 mrf: 5.21 mtf:-0.56 ( $\times 10^{15} \text{N} \cdot \text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1: 22° 70° 103° P-axis:-7.95 102° 24°  
NP2:168° 24° 58° T-axis: 7.92 313° 63°  
N-axis: 0.03 198° 12°  
V.R.: 73%  $\epsilon$ : 0.00 N:22 COMP:32

2017/01/22 03:11: 5.6  
E OFF AOMORI PREF  
Hypo.:41° 4.0'N 142°26.5'E 37km



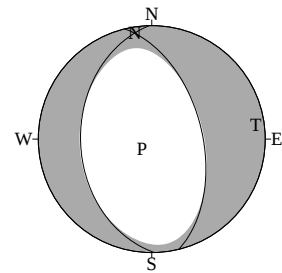
Cent.:41° 4.0'N 142°26.7'E 37km  $\Delta t = 0.5$   
Mo:  $7.94 \times 10^{15} \text{N} \cdot \text{m}$  Mw:4.5 Mj:4.5 (sec)  
mrr: 4.94 mtt: 1.04 mff:-5.98  
mrt: 2.80 mrf: 4.85 mtf:-1.21 ( $\times 10^{15} \text{N} \cdot \text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1: 25° 68° 104° P-axis:-8.32 104° 22°  
NP2:170° 26° 58° T-axis: 7.56 319° 64°  
N-axis: 0.77 200° 13°  
V.R.: 67%  $\epsilon$ :-0.09 N:16 COMP:19

2017/01/26 17:06:27.9  
NE OFF IWATE PREF  
Hypo.:40° 9.9'N 142°27.3'E 36km



Cent.:40°16.0'N 142°27.3'E 51km  $\Delta t = 2.4$   
Mo:  $5.32 \times 10^{16} \text{N} \cdot \text{m}$  Mw:5.1 Mj:5.2 (sec)  
mrr: 3.03 mtt: 1.00 mff:-4.03  
mrt: 1.92 mrf: 3.37 mtf: 0.38 ( $\times 10^{16} \text{N} \cdot \text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1: 21° 71° 113° P-axis:-5.40 94° 22°  
NP2:149° 29° 43° T-axis: 5.25 322° 58°  
N-axis: 0.15 193° 21°  
V.R.: 76%  $\epsilon$ :-0.03 N:13 COMP:25

2017/01/28 22:40:29.6  
NORTHERN AKITA PREF  
Hypo.:39°45.6'N 140°45.8'E 151km



Cent.:39°48.4'N 140°45.5'E 153km  $\Delta t = 2.9$   
Mo:  $2.41 \times 10^{16} \text{N} \cdot \text{m}$  Mw:4.9 Mj:5.0 (sec)  
mrr:-2.36 mtt: 0.15 mff: 2.21  
mrt: 0.37 mrf:-0.62 mtf:-0.27 ( $\times 10^{16} \text{N} \cdot \text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1:346° 53° -98° P-axis:-2.49 224° 80°  
NP2:179° 37° -80° T-axis: 2.34 82° 8°  
N-axis: 0.14 351° 6°  
V.R.: 82%  $\epsilon$ :-0.06 N:20 COMP:33

EQUAL AREA PROJECTION, LOWER HEMISPHERE.