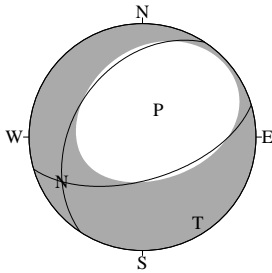


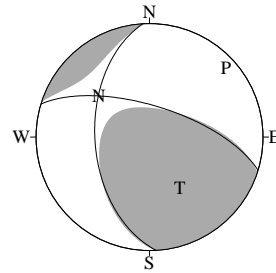
CMT SOLUTIONS FOR EARTHQUAKES IN JANUARY, 2015

2015/01/01 14:01:10.1  
KINKAZAN REGION  
Hypo.:38°53.0'N 142° 4.1'E 44km



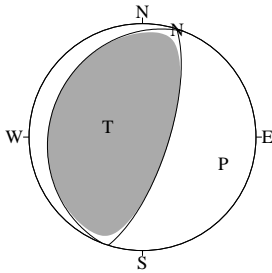
Cent.:38°53.0'N 142° 4.7'E 44km  $\Delta t = 0.5$   
Mo:  $7.34 \times 10^{15}$  N·m Mw:4.5 Mj:4.5 (sec)  
mrr:-6.50 mtt: 3.77 mff: 2.73  
mrt:-3.87 mrf: 1.28 mtf: 2.74 ( $\times 10^{15}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 74° 59° -66° P-axis:-8.21 30° 67°  
NP2:213° 38°-124° T-axis: 6.47 147° 11°  
N-axis: 1.74 241° 20°  
V.R.: 70%  $\epsilon$ :-0.21 N:39 COMP:50

2015/01/01 22:57:14.4  
ISHIKARI DEPRESSION  
Hypo.:42°35.0'N 141°50.2'E 30km



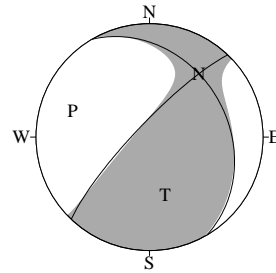
Cent.:42°35.1'N 141°50.4'E 30km  $\Delta t = 0.4$   
Mo:  $5.71 \times 10^{15}$  N·m Mw:4.4 Mj:4.5 (sec)  
mrr: 2.71 mtt:-0.34 mff:-2.37  
mrt:-3.44 mrf:-1.08 mtf: 3.67 ( $\times 10^{15}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:287° 67° 44° P-axis:-5.39 48° 10°  
NP2:177° 50° 150° T-axis: 6.04 149° 47°  
N-axis:-0.66 309° 42°  
V.R.: 57%  $\epsilon$ : 0.11 N:12 COMP:18

2015/01/04 03:51: 9.9  
FAR E OFF SANRIKU  
Hypo.:39°41.4'N 143°40.8'E 29km



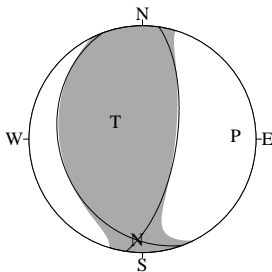
Cent.:39°41.4'N 143°41.7'E 10km  $\Delta t = 0.5$   
Mo:  $8.49 \times 10^{15}$  N·m Mw:4.6 Mj:4.8 (sec)  
mrr: 5.28 mtt:-0.74 mff:-4.53  
mrt: 1.98 mrf: 6.44 mtf:-1.52 ( $\times 10^{15}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 18° 71° 89° P-axis:-8.39 108° 26°  
NP2:201° 19° 93° T-axis: 8.60 286° 64°  
N-axis:-0.21 18° 1°  
V.R.: 66%  $\epsilon$ : 0.02 N:35 COMP:46

2015/01/05 07:25:26.6  
NEAR ETOROFU ISLAND  
Hypo.:44°53.1'N 148° 3.6'E 145km



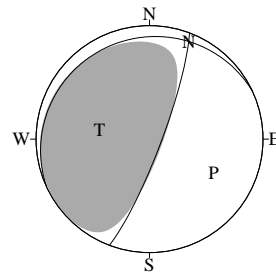
Cent.:44°56.4'N 148° 5.3'E 136km  $\Delta t = 1.1$   
Mo:  $3.82 \times 10^{16}$  N·m Mw:5.0 Mj:5.0 (sec)  
mrr: 1.05 mtt: 1.45 mff:-2.50  
mrt:-2.21 mrf:-2.16 mtf:-0.63 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:224° 80° 120° P-axis:-3.99 289° 29°  
NP2:329° 32° 19° T-axis: 3.66 165° 46°  
N-axis: 0.33 38° 30°  
V.R.: 66%  $\epsilon$ :-0.08 N:22 COMP:44

2015/01/06 00:16:25.5  
NEAR TORISHIMA IS  
Hypo.:30°39.0'N 142°17.8'E 51km



Cent.:30°35.1'N 142°17.4'E 10km  $\Delta t = 5.1$   
Mo:  $1.10 \times 10^{17}$  N·m Mw:5.3 Mj:5.5 (sec)  
mrr: 0.76 mtt: 0.14 mff:-0.90  
mrt: 0.17 mrf: 0.67 mtf: 0.09 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 8° 65° 103° P-axis:-1.10 88° 19°  
NP2:159° 28° 64° T-axis: 1.00 302° 67°  
N-axis: 0.10 183° 12°  
V.R.: 75%  $\epsilon$ :-0.09 N:28 COMP:61

2015/01/07 13:48:32.0  
TAIWAN REGION  
Hypo.:24°11.0'N 121°38.4'E 33km

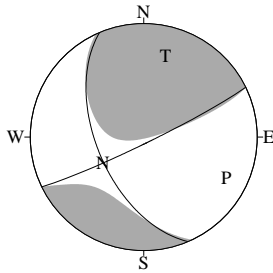


Cent.:24° 1.5'N 121°38.8'E 15km  $\Delta t = 3.0$   
Mo:  $5.97 \times 10^{16}$  N·m Mw:5.1 Mj:5.0 (sec)  
mrr: 1.96 mtt:-1.16 mff:-0.80  
mrt: 1.78 mrf: 5.38 mtf:-0.94 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 21° 82° 82° P-axis:-5.72 118° 36°  
NP2:245° 12° 134° T-axis: 6.23 281° 53°  
N-axis:-0.51 22° 8°  
V.R.: 70%  $\epsilon$ : 0.08 N:6 COMP:10

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

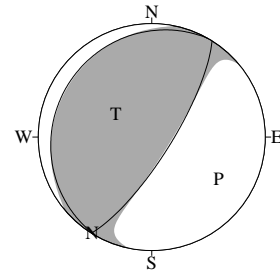
Hypo.:Location of hypocenter, Cent.:Location of centroid,  $\Delta t$ :Centroid time minus origin time  
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude  
mrr,mtt,mff,mrt,mrf,mtf: Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane  
MOM,AZM,PLG: Moment tensor component,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

2015/01/09 03:42:10.9  
 NEMURO REGION  
 Hypo.:43°33.1'N 145° 2.8'E 126km



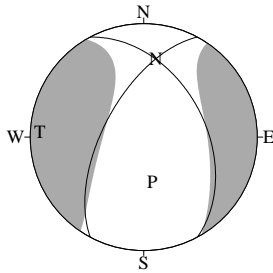
Cent.:43°28.8'N 145° 3.2'E 121km  $\Delta t = 2.7$   
 Mo:  $1.30 \times 10^{17}$  N·m Mw:5.3 Mj:5.5 (sec)  
 mrr: 0.03 mtt: 0.80 mff:-0.83  
 mrt: 0.74 mrf: 0.14 mtf:-0.66 ( $\times 10^{17}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 64° 86° 146° P-axis: -1.20 116° 20°  
 NP2: 157° 56° 5° T-axis: 1.40 15° 27°  
 N-axis: -0.20 238° 55°  
 V.R.: 73%  $\epsilon$ : 0.12 N:19 COMP:32

2015/01/12 21:39: 4.1  
 FAR E OFF KANTO  
 Hypo.:35°43.6'N 142°17.0'E 59km



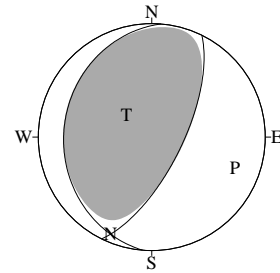
Cent.:35°40.6'N 142°16.5'E 10km  $\Delta t = 7.9$   
 Mo:  $5.99 \times 10^{16}$  N·m Mw:5.1 Mj:5.1 (sec)  
 mrr: 2.62 mtt:-0.52 mff:-2.10  
 mrt: 2.82 mrf: 4.48 mtf:-1.48 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 32° 76° 91° P-axis: -6.17 122° 31°  
 NP2: 209° 14° 87° T-axis: 5.81 303° 59°  
 N-axis: 0.37 212° 1°  
 V.R.: 79%  $\epsilon$ : -0.06 N:23 COMP:42

2015/01/13 14:26:59.4  
 SE OFF OSUMI PEN  
 Hypo.:30°40.1'N 131°27.0'E 49km



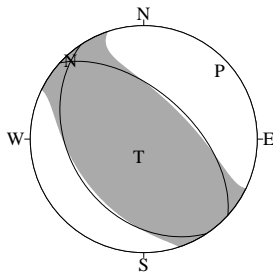
Cent.:30°31.8'N 131°26.6'E 45km  $\Delta t = 1.6$   
 Mo:  $2.92 \times 10^{16}$  N·m Mw:4.9 Mj:4.7 (sec)  
 mrr: -1.92 mtt: -1.28 mff: 3.20  
 mrt: 0.79 mrf: 0.79 mtf: 0.13 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 332° 45° -137° P-axis: -2.51 169° 57°  
 NP2: 208° 61° -54° T-axis: 3.33 273° 9°  
 N-axis: -0.82 9° 31°  
 V.R.: 74%  $\epsilon$ : 0.25 N:33 COMP:64

2015/01/14 02:46:43.5  
 E OFF IWATE PREF  
 Hypo.:39°20.4'N 142° 3.8'E 48km



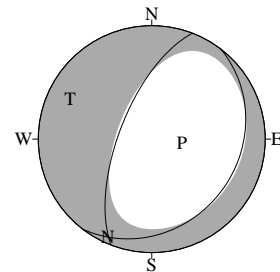
Cent.:39°23.4'N 142° 3.8'E 49km  $\Delta t = 2.0$   
 Mo:  $3.81 \times 10^{16}$  N·m Mw:5.0 Mj:4.9 (sec)  
 mrr: 2.70 mtt: -0.23 mff: -2.47  
 mrt: 1.42 mrf: 2.34 mtf: -0.63 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 26° 68° 98° P-axis: -3.73 110° 23°  
 NP2: 185° 23° 70° T-axis: 3.90 311° 66°  
 N-axis: -0.17 203° 8°  
 V.R.: 76%  $\epsilon$ : 0.04 N:40 COMP:71

2015/01/14 10:15:40.9  
 NEAR OKINAWAJIMA ISLAND  
 Hypo.:26°27.4'N 128°29.7'E 32km



Cent.:26°21.7'N 128°29.5'E 28km  $\Delta t = 1.2$   
 Mo:  $1.59 \times 10^{16}$  N·m Mw:4.7 Mj:4.7 (sec)  
 mrr: 1.33 mtt: -0.54 mff: -0.79  
 mrt: -0.49 mrf: 0.34 mtf: 0.95 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 312° 56° 82° P-axis: -1.73 48° 11°  
 NP2: 146° 35° 101° T-axis: 1.46 196° 77°  
 N-axis: 0.27 317° 6°  
 V.R.: 78%  $\epsilon$ : -0.16 N:11 COMP:19

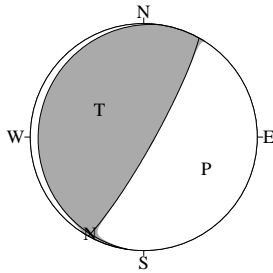
2015/01/14 13:14:38.3  
 FAR E OFF NORTH HONSHU  
 Hypo.:38° 5.6'N 144°31.4'E 50km



Cent.:38° 5.6'N 144°32.4'E 10km  $\Delta t = 0.4$   
 Mo:  $4.86 \times 10^{15}$  N·m Mw:4.4 Mj:4.5 (sec)  
 mrr: -3.86 mtt: 1.30 mff: 2.56  
 mrt: 0.87 mrf: 3.19 mtf: 1.21 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 37° 24° -75° P-axis: -5.20 98° 68°  
 NP2: 201° 66° -97° T-axis: 4.53 296° 21°  
 N-axis: 0.67 204° 6°  
 V.R.: 79%  $\epsilon$ : -0.13 N:32 COMP:34

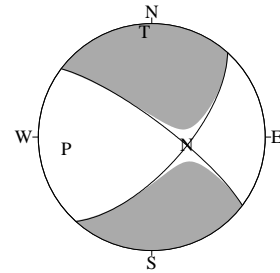
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2015/01/15 10:34:15.6  
 E OFF AOMORI PREF  
 Hypo.:40°51.9'N 143°17.9'E 51km



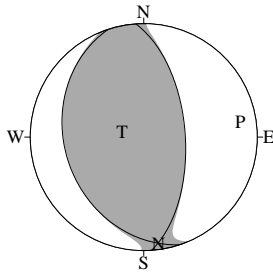
Cent.:40°51.9'N 143°18.3'E 10km  $\Delta t = 0.5$   
 Mo:  $5.89 \times 10^{15}$  N·m Mw:4.4 Mj:4.4 (sec)  
 mrr:-1.44 mtt:-0.08 mff:-1.36  
 mrt: 2.81 mrf: 4.96 mtf:-0.50 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 29° 83° 93° P-axis:-5.91 117° 38°  
 NP2:188° 8° 69° T-axis: 5.87 302° 52°  
 N-axis: 0.04 209° 3°  
 V.R.: 64%  $\epsilon$ :-0.01 N:16 COMP:23

2015/01/16 11:24:36.7  
 NEAR MIYAKOJIMA ISLAND  
 Hypo.:24°20.9'N 126°43.4'E 84km



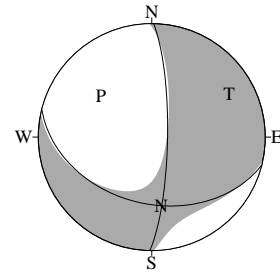
Cent.:24°20.1'N 126°43.3'E 22km  $\Delta t = 0.7$   
 Mo:  $9.77 \times 10^{15}$  N·m Mw:4.6 Mj:4.5 (sec)  
 mrr:-1.78 mtt: 9.58 mff:-7.80  
 mrt: 1.93 mrf:-3.35 mtf: 1.66 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 42° 67°-168° P-axis:-9.57 262° 25°  
 NP2:307° 79° -24° T-axis: 9.97 356° 8°  
 N-axis:-0.40 103° 64°  
 V.R.: 64%  $\epsilon$ : 0.04 N:8 COMP:12

2015/01/19 01:15: 6.9  
 NEAR TORISHIMA IS  
 Hypo.:30°34.2'N 142°26.3'E 31km



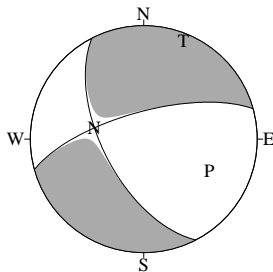
Cent.:30°34.8'N 142°25.6'E 10km  $\Delta t = 3.9$   
 Mo:  $8.88 \times 10^{16}$  N·m Mw:5.2 Mj:5.4 (sec)  
 mrr: 7.51 mtt: 0.07 mff:-7.58  
 mrt: 0.21 mrf: 4.43 mtf: 1.54 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1:356° 60° 97° P-axis:-9.01 81° 15°  
 NP2:162° 31° 78° T-axis: 8.76 285° 74°  
 N-axis: 0.25 172° 6°  
 V.R.: 72%  $\epsilon$ :-0.03 N:31 COMP:60

2015/01/20 07:34:48.9  
 MID NIIGATA PREF  
 Hypo.:37° 9.4'N 138°30.7'E 188km



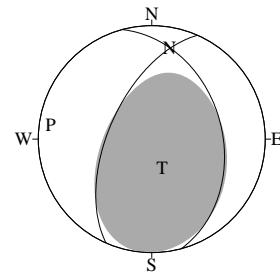
Cent.:37°15.3'N 138°30.7'E 192km  $\Delta t = 1.1$   
 Mo:  $2.00 \times 10^{16}$  N·m Mw:4.8 Mj:4.9 (sec)  
 mrr:-0.57 mtt: 0.05 mff: 0.52  
 mrt:-0.44 mrf:-1.44 mtf:-1.21 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 1° 79° -50° P-axis:-2.11 309° 42°  
 NP2:104° 41°-163° T-axis: 1.88 61° 23°  
 N-axis: 0.23 172° 39°  
 V.R.: 80%  $\epsilon$ :-0.11 N:45 COMP:70

2015/01/22 02:35:30.6  
 SE OFF TOKACHI  
 Hypo.:42°39.0'N 144°31.9'E 54km



Cent.:42°39.0'N 144°32.1'E 54km  $\Delta t = 0.4$   
 Mo:  $4.11 \times 10^{15}$  N·m Mw:4.3 Mj:4.5 (sec)  
 mrr:-1.41 mtt: 3.01 mff:-1.60  
 mrt: 1.29 mrf: 1.51 mtf:-2.48 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1:153° 60° -23° P-axis:-4.06 116° 36°  
 NP2:254° 70°-148° T-axis: 4.16 22° 7°  
 N-axis:-0.09 283° 53°  
 V.R.: 54%  $\epsilon$ : 0.02 N:15 COMP:24

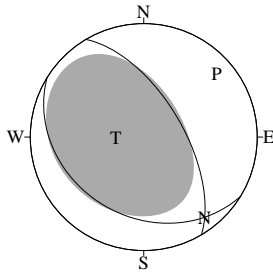
2015/01/24 18:24:11.0  
 E OFF HACHIJOJIMA ISLAND  
 Hypo.:33°19.9'N 140°58.7'E 56km



Cent.:33°19.9'N 140°59.7'E 56km  $\Delta t = 0.5$   
 Mo:  $5.62 \times 10^{15}$  N·m Mw:4.4 Mj:4.6 (sec)  
 mrr: 4.88 mtt:-0.01 mff:-4.86  
 mrt:-2.37 mrf:-1.66 mtf:-0.23 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1:345° 38° 58° P-axis:-5.22 278° 11°  
 NP2:204° 59° 113° T-axis: 6.03 160° 68°  
 N-axis:-0.81 11° 19°  
 V.R.: 75%  $\epsilon$ : 0.13 N:33 COMP:46

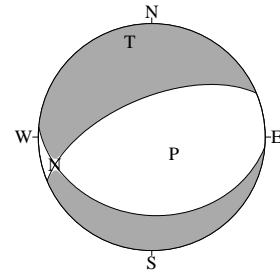
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2015/01/25 16:19: 2.8  
 NEAR AMAMI-OSHIMA ISLAND  
 Hypo.: 29°35.2'N 130°35.3'E 63km



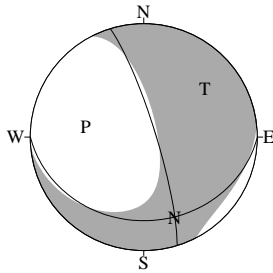
Cent.: 29°35.2'N 130°35.2'E 40km  $\Delta t = 0.5$   
 Mo:  $6.90 \times 10^{15}$  N·m Mw: 4.5 Mj: 4.3 (sec)  
 mrr: 6.12 mtt: -3.26 mff: -2.86  
 mrt: -0.91 mrf: 3.87 mtf: 2.22 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 329° 62° 104° P-axis: -6.23 49° 16°  
 NP2: 122° 31° 66° T-axis: 7.56 269° 70°  
 N-axis: -1.33 143° 12°  
 V.R.: 74%  $\epsilon$ : 0.18 N: 24 COMP: 32

2015/01/25 17:24: 33.3  
 NEAR MIYAKOJIMA ISLAND  
 Hypo.: 23°30.5'N 125°28.4'E 88km



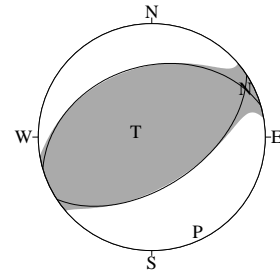
Cent.: 23°30.5'N 125°29.2'E 10km  $\Delta t = 0.6$   
 Mo:  $1.48 \times 10^{16}$  N·m Mw: 4.7 Mj: 4.4 (sec)  
 mrr: -1.20 mtt: 1.26 mff: -0.05  
 mrt: 0.66 mrf: 0.46 mtf: 0.21 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 95° 32° -66° P-axis: -1.48 127° 70°  
 NP2: 247° 61° -104° T-axis: 1.49 347° 15°  
 N-axis: -0.01 254° 12°  
 V.R.: 84%  $\epsilon$ : 0.01 N: 8 COMP: 10

2015/01/25 19:41: 12.8  
 NEAR TORISHIMA IS  
 Hypo.: 29°12.5'N 139°44.7'E 425km



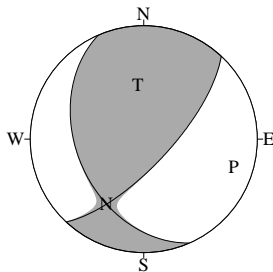
Cent.: 29°10.3'N 139°42.7'E 420km  $\Delta t = -0.8$   
 Mo:  $8.13 \times 10^{16}$  N·m Mw: 5.2 Mj: 5.4 (sec)  
 mrr: -2.55 mtt: 3.08 mff: -0.53  
 mrt: 0.65 mrf: -7.18 mtf: -2.83 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 343° 81° -64° P-axis: -8.95 280° 47°  
 NP2: 90° 27° -161° T-axis: 7.31 52° 32°  
 N-axis: 1.64 159° 25°  
 V.R.: 81%  $\epsilon$ : -0.18 N: 21 COMP: 28

2015/01/26 07:20: 1.6  
 NORTHERN CHIBA PREF  
 Hypo.: 35°52.6'N 140°28.9'E 37km



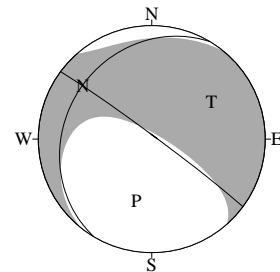
Cent.: 35°52.4'N 140°29.5'E 40km  $\Delta t = 4.6$   
 Mo:  $3.83 \times 10^{16}$  N·m Mw: 5.0 Mj: 5.0 (sec)  
 mrr: 3.49 mtt: -3.06 mff: -0.43  
 mrt: 0.75 mrf: 0.92 mtf: -1.56 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 57° 54° 80° P-axis: -3.94 154° 8°  
 NP2: 254° 37° 104° T-axis: 3.72 288° 78°  
 N-axis: 0.22 63° 8°  
 V.R.: 72%  $\epsilon$ : -0.06 N: 25 COMP: 43

2015/01/30 16:45: 53.2  
 HYUGANADA REGION  
 Hypo.: 31°45.8'N 131°54.6'E 26km



Cent.: 31°45.8'N 131°54.8'E 26km  $\Delta t = 0.4$   
 Mo:  $4.23 \times 10^{15}$  N·m Mw: 4.4 Mj: 4.4 (sec)  
 mrr: 2.06 mtt: 1.44 mff: -3.49  
 mrt: 2.40 mrf: 1.45 mtf: -0.89 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 43° 71° 127° P-axis: -4.26 107° 18°  
 NP2: 156° 40° 30° T-axis: 4.20 354° 50°  
 N-axis: 0.06 210° 34°  
 V.R.: 61%  $\epsilon$ : -0.01 N: 17 COMP: 19

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 SOUTHERN IBARAKI PREF  
 Hypo.: 35°58.7'N 140°12.4'E 40km



Cent.: 35°55.0'N 140°12.6'E 38km  $\Delta t = 1.0$   
 Mo:  $1.15 \times 10^{16}$  N·m Mw: 4.6 Mj: 4.8 (sec)  
 mrr: -0.16 mtt: -0.39 mff: 0.55  
 mrt: 0.94 mrf: -0.49 mtf: -0.02 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 307° 87° -114° P-axis: -1.28 194° 43°  
 NP2: 211° 24° -6° T-axis: 1.02 58° 38°  
 N-axis: 0.26 308° 24°  
 V.R.: 69%  $\epsilon$ : -0.20 N: 21 COMP: 33

EQUAL AREA PROJECTON, LOWER HEMISPHERE.