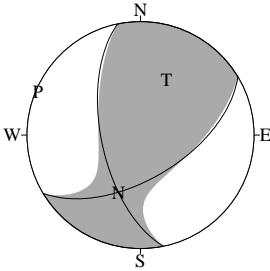


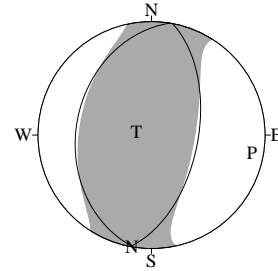
CMT SOLUTIONS FOR EARTHQUAKES IN AUGUST, 2015

2015/08/01 23:24:43.7  
E OFF MIYAGI PREF  
Hypo.:38°22.1'N 141°49.7'E 63km



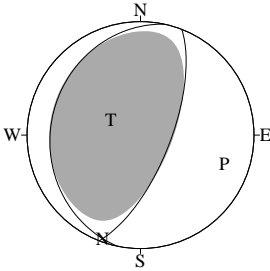
Cent.:38°22.0'N 141°50.1'E 63km  $\Delta t = 0.5$   
Mo:  $6.60 \times 10^{15}$  N·m Mw:4.5 Mj:4.7 (sec)  
mrr: 3.47 mtt: 1.82 mff:-5.29  
mrt: 2.37 mrf:-1.39 mtf:-3.84 ( $\times 10^{15}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 59° 58° 146° P-axis:-6.98 293° 2°  
NP2:168° 62° 36° T-axis: 6.22 25° 45°  
N-axis: 0.76 201° 45°  
V.R.: 79%  $\epsilon$ :-0.11 N:47 COMP:68

2015/08/02 06:51:39.8  
E OFF TANEGASHIMA ISLAND  
Hypo.:30°36.7'N 131°35.0'E 41km



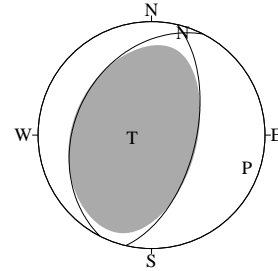
Cent.:30°36.7'N 131°35.5'E 30km  $\Delta t = 0.5$   
Mo:  $0.94 \times 10^{16}$  N·m Mw:4.6 Mj:4.4 (sec)  
mrr: 0.78 mtt: 0.13 mff:-0.91  
mrt: 0.07 mrf: 0.35 mtf:-0.19 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 10° 56° 90° P-axis:-1.02 100° 11°  
NP2:190° 34° 90° T-axis: 0.85 282° 79°  
N-axis: 0.16 190° 0°  
V.R.: 72%  $\epsilon$ :-0.16 N:24 COMP:33

2015/08/03 14:30:10.3  
E OFF FUKUSHIMA PREF  
Hypo.:37°46.0'N 141°36.9'E 49km



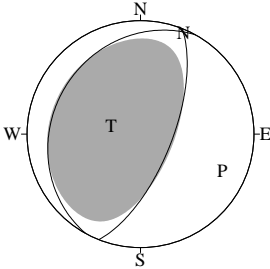
Cent.:37°48.0'N 141°37.2'E 48km  $\Delta t = 1.8$   
Mo:  $4.38 \times 10^{16}$  N·m Mw:5.0 Mj:5.1 (sec)  
mrr: 3.15 mtt:-0.51 mff:-2.65  
mrt: 1.28 mrf: 2.93 mtf:-0.67 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 21° 68° 93° P-axis:-4.21 109° 23°  
NP2:192° 22° 81° T-axis: 4.54 297° 66°  
N-axis:-0.33 200° 3°  
V.R.: 80%  $\epsilon$ : 0.07 N:20 COMP:30

2015/08/04 13:39:47.0  
E OFF TANEGASHIMA ISLAND  
Hypo.:30°38.8'N 131°36.3'E 38km



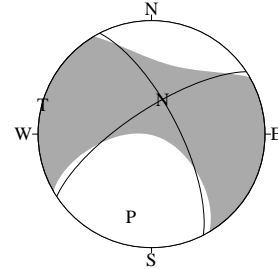
Cent.:30°38.8'N 131°37.9'E 30km  $\Delta t = 0.6$   
Mo:  $1.30 \times 10^{16}$  N·m Mw:4.7 Mj:4.7 (sec)  
mrr: 1.22 mtt:-0.22 mff:-1.00  
mrt: 0.02 mrf: 0.57 mtf:-0.34 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 13° 58° 82° P-axis:-1.25 109° 12°  
NP2:207° 33° 102° T-axis: 1.36 261° 76°  
N-axis:-0.11 17° 6°  
V.R.: 67%  $\epsilon$ : 0.08 N:17 COMP:20

2015/08/05 20:56: 9.4  
E OFF FUKUSHIMA PREF  
Hypo.:37°31.1'N 141°28.0'E 50km



Cent.:37°30.0'N 141°28.7'E 50km  $\Delta t = 0.9$   
Mo:  $3.70 \times 10^{16}$  N·m Mw:5.0 Mj:5.0 (sec)  
mrr: 2.83 mtt:-0.78 mff:-2.04  
mrt: 0.86 mrf: 2.45 mtf:-0.81 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 22° 67° 87° P-axis:-3.50 114° 22°  
NP2:209° 23° 97° T-axis: 3.90 286° 68°  
N-axis:-0.40 23° 3°  
V.R.: 77%  $\epsilon$ : 0.10 N:19 COMP:30

2015/08/06 10:45:23.9  
NEAR CHOSHI CITY  
Hypo.:35°49.8'N 140°55.2'E 35km

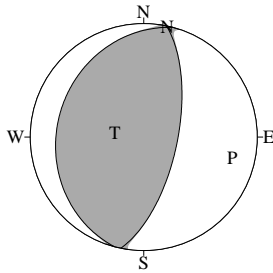


Cent.:35°49.5'N 140°55.8'E 34km  $\Delta t = 0.5$   
Mo:  $6.87 \times 10^{15}$  N·m Mw:4.5 Mj:4.5 (sec)  
mrr: 0.09 mtt:-5.19 mff: 5.11  
mrt: 3.81 mrf:-0.89 mtf: 2.88 ( $\times 10^{15}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:237° 73° -20° P-axis:-7.87 194° 26°  
NP2:333° 71° -162° T-axis: 5.86 285° 1°  
N-axis: 2.01 18° 64°  
V.R.: 78%  $\epsilon$ :-0.26 N:24 COMP:35

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

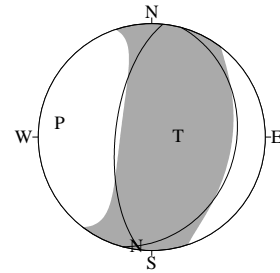
Hypo.:Location of hypocenter, Cent.:Location of centroid,  $\Delta t$ :Centroid time minus origin time  
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude  
mrr,mtt,mff,mrt,mrf,mtf: Moment tensor components, STR,DIP,SLIP: Fault parameters of nodal plane  
MOM,AZM,PLG: Moment tensor component,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

2015/08/06 18:22:29.0  
 NORTHERN IBARAKI PREF  
 Hypo.:36°26.3'N 140°37.1'E 55km



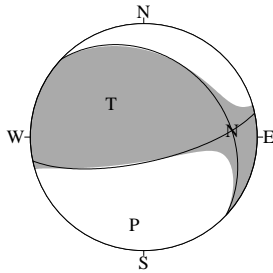
Cent.:36°35.9'N 140°36.8'E 56km  $\Delta t = 4.7$   
 Mo:  $5.18 \times 10^{16}$  N·m Mw:5.1 Mj:5.2 (sec)  
 mrr: 3.87 mtt:-0.17 mff:-3.70  
 mrt: 0.64 mrf: 3.37 mtf:-0.88 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 12° 66° 89° P-axis:-5.20 103° 21°  
 NP2:195° 24° 93° T-axis: 5.16 279° 69°  
 N-axis: 0.03 12° 1°  
 V.R.: 81%  $\epsilon$ :-0.01 N:21 COMP:34

2015/08/10 11:34:44.9  
 NORTHERN MIYAGI PREF  
 Hypo.:38°52.0'N 141°35.7'E 75km



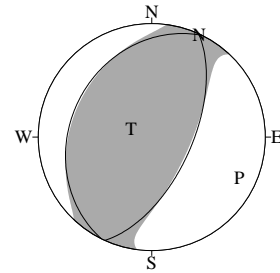
Cent.:38°52.0'N 141°35.6'E 75km  $\Delta t = 0.5$   
 Mo:  $8.41 \times 10^{15}$  N·m Mw:4.5 Mj:4.4 (sec)  
 mrr: 5.57 mtt: 1.96 mff:-7.54  
 mrt:-0.45 mrf:-5.06 mtf:-1.62 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 15° 27° 98° P-axis:-9.51 279° 19°  
 NP2:186° 64° 86° T-axis: 7.30 87° 71°  
 N-axis: 2.21 188° 4°  
 V.R.: 75%  $\epsilon$ :-0.23 N:37 COMP:53

2015/08/13 23:08: 1.6  
 TAIWAN REGION  
 Hypo.:23°56.7'N 122°23.0'E 20km



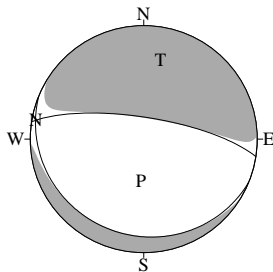
Cent.:23°53.8'N 122°23.1'E 26km  $\Delta t = 8.0$   
 Mo:  $2.30 \times 10^{17}$  N·m Mw:5.5 Mj:5.7 (sec)  
 mrr: 1.16 mtt:-1.62 mff: 0.46  
 mrt: 1.57 mrf: 0.53 mtf: 0.54 ( $\times 10^{17}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 78° 72° 66° P-axis:-2.40 186° 23°  
 NP2:313° 30° 142° T-axis: 2.20 316° 56°  
 N-axis: 0.20 86° 23°  
 V.R.: 73%  $\epsilon$ :-0.08 N:14 COMP:27

2015/08/14 05:13:32.9  
 E OFF FUKUSHIMA PREF  
 Hypo.:37° 9.9'N 141°26.2'E 49km



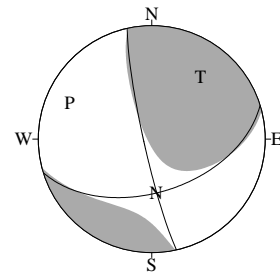
Cent.:37°17.8'N 141°26.3'E 50km  $\Delta t = 8.5$   
 Mo:  $6.38 \times 10^{16}$  N·m Mw:5.1 Mj:5.1 (sec)  
 mrr: 5.09 mtt:-0.55 mff:-4.54  
 mrt: 1.38 mrf: 3.14 mtf:-2.43 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 24° 61° 89° P-axis:-6.68 115° 16°  
 NP2:206° 29° 92° T-axis: 6.09 292° 74°  
 N-axis: 0.60 25° 1°  
 V.R.: 79%  $\epsilon$ :-0.09 N:26 COMP:49

2015/08/14 13:43:44.8  
 TOKACHI REGION  
 Hypo.:42°45.1'N 143° 6.7'E 80km



Cent.:42°43.9'N 143° 7.0'E 79km  $\Delta t = 2.0$   
 Mo:  $6.12 \times 10^{16}$  N·m Mw:5.1 Mj:5.1 (sec)  
 mrr:-3.05 mtt: 3.10 mff:-0.06  
 mrt: 5.17 mrf:-0.72 mtf:-0.91 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1:112° 16° -77° P-axis:-5.99 184° 60°  
 NP2:279° 74° -94° T-axis: 6.25 12° 29°  
 N-axis:-0.26 280° 4°  
 V.R.: 81%  $\epsilon$ : 0.04 N:19 COMP:33

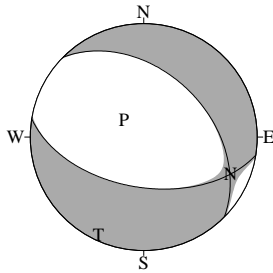
2015/08/17 09:45:41.3  
 NEAR CHICHIJIMA ISLAND  
 Hypo.:27° 7.1'N 143°57.6'E 42km



Cent.:26°53.7'N 143°57.9'E 34km  $\Delta t = 2.2$   
 Mo:  $6.33 \times 10^{16}$  N·m Mw:5.1 Mj:5.3 (sec)  
 mrr: 0.43 mtt: 1.94 mff:-2.36  
 mrt: 2.06 mrf:-3.63 mtf:-4.31 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 73° 51° 172° P-axis:-5.83 294° 22°  
 NP2:167° 84° 39° T-axis: 6.82 38° 31°  
 N-axis:-0.98 175° 51°  
 V.R.: 89%  $\epsilon$ : 0.14 N:42 COMP:69

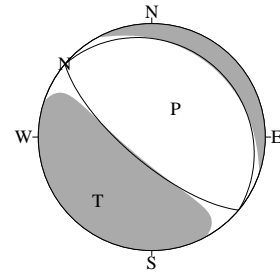
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2015/08/17 20:40:33.9  
NEAR TANEGASHIMA ISLAND  
Hypo.:30°48.3'N 131° 6.4'E 7km



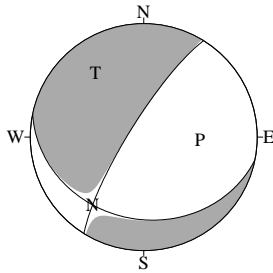
Cent.:30°44.5'N 131° 5.8'E 10km  $\Delta t = 3.8$   
Mo:  $2.73 \times 10^{16}$  N·m Mw:4.9 Mj:5.0 (sec)  
mrr:-2.43 mtt: 2.06 mff: 0.37  
mrt:-0.83 mrf:-0.54 mtf:-1.17 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 99° 53° -113° P-axis:-2.76 312° 71°  
NP2:315° 42° -62° T-axis: 2.71 205° 6°  
N-axis: 0.06 113° 18°  
V.R.: 80%  $\epsilon$ : -0.02 N:31 COMP:46

2015/08/17 23:42:34.8  
FAR E OFF OGASAWARA  
Hypo.:22°26.3'N 146°40.3'E 12km



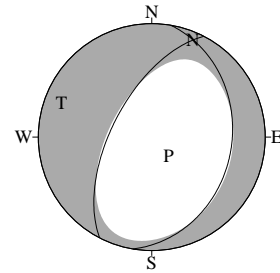
Cent.:22°27.1'N 146°47.1'E 15km  $\Delta t = 0.4$   
Mo:  $3.50 \times 10^{17}$  N·m Mw:5.6 Mj:6.1 (sec)  
mrr:-1.88 mtt: 1.17 mff: 0.71  
mrt:-2.14 mrf: 1.80 mtf:-1.27 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:130° 72° -90° P-axis:-3.30 40° 63°  
NP2:309° 18° -91° T-axis: 3.60 220° 27°  
N-axis:-0.30 310° 0°  
V.R.: 80%  $\epsilon$ : 0.10 N:39 COMP:60

2015/08/20 21:57:31.0  
E OFF MIYAGI PREF  
Hypo.:38°43.2'N 142°15.2'E 40km



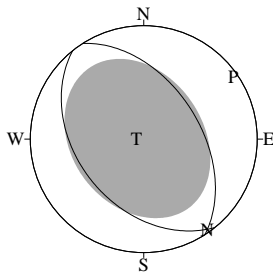
Cent.:38°43.0'N 142°15.5'E 40km  $\Delta t = 0.6$   
Mo:  $9.98 \times 10^{15}$  N·m Mw:4.6 Mj:4.8 (sec)  
mrr:-3.16 mtt: 4.76 mff:-1.59  
mrt: 3.81 mrf: 7.43 mtf: 3.52 ( $\times 10^{15}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:102° 28° -23° P-axis:-9.87 93° 49°  
NP2:212° 79° -117° T-axis:10.10 323° 30°  
N-axis:-0.23 217° 26°  
V.R.: 74%  $\epsilon$ : 0.02 N:24 COMP:35

2015/08/21 16:54:36.9  
BUNGO CHANNEL  
Hypo.:33°17.3'N 132°10.4'E 48km



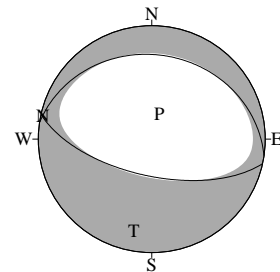
Cent.:33°17.3'N 132°10.3'E 48km  $\Delta t = 0.5$   
Mo:  $6.20 \times 10^{15}$  N·m Mw:4.5 Mj:4.3 (sec)  
mrr:-5.49 mtt: 0.90 mff: 4.59  
mrt: 2.03 mrf: 2.65 mtf: 1.29 ( $\times 10^{15}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 10° 30° -106° P-axis:-6.53 138° 72°  
NP2:207° 61° -81° T-axis: 5.88 291° 16°  
N-axis: 0.65 23° 8°  
V.R.: 72%  $\epsilon$ : -0.10 N:15 COMP:24

2015/08/22 21:14: 4.8  
S OFF URAKAWA  
Hypo.:41°57.3'N 142°53.4'E 43km



Cent.:41°57.3'N 142°53.3'E 43km  $\Delta t = 0.5$   
Mo:  $7.77 \times 10^{15}$  N·m Mw:4.5 Mj:4.5 (sec)  
mrr: 8.63 mtt:-3.57 mff:-5.06  
mrt:-0.19 mrf: 1.26 mtf: 2.28 ( $\times 10^{15}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:327° 49° 94° P-axis:-6.80 55° 4°  
NP2:141° 41° 85° T-axis: 8.75 271° 85°  
N-axis:-1.95 145° 3°  
V.R.: 73%  $\epsilon$ : 0.22 N:13 COMP:21

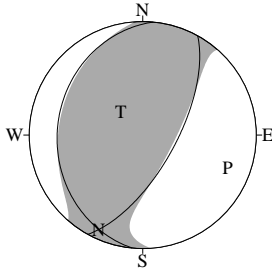
2015/08/24 14:49:44.4  
E OFF FUKUSHIMA PREF  
Hypo.:37°17.5'N 141°12.7'E 16km



Cent.:37°11.4'N 141°12.5'E 14km  $\Delta t = 1.0$   
Mo:  $1.42 \times 10^{16}$  N·m Mw:4.7 Mj:5.1 (sec)  
mrr:-1.19 mtt: 1.05 mff: 0.14  
mrt:-0.83 mrf: 0.21 mtf:-0.17 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:102° 64° -88° P-axis:-1.47 17° 71°  
NP2:278° 27° -94° T-axis: 1.36 191° 19°  
N-axis: 0.11 282° 2°  
V.R.: 78%  $\epsilon$ : -0.07 N:18 COMP:21

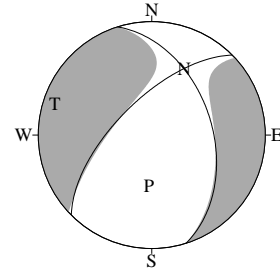
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2015/08/25 03:24:37.0  
E OFF MIYAGI PREF  
Hypo.:38°43.3'N 142°11.3'E 41km



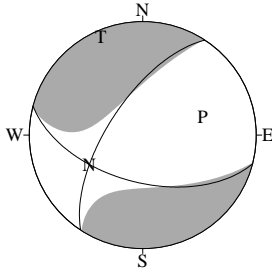
Cent.:38°43.3'N 142°11.3'E 41km  $\Delta t = 0.5$   
Mo:  $7.64 \times 10^{15} \text{N}\cdot\text{m}$  Mw:4.5 Mj:4.6 (sec)  
mrr: 5.12 mtt: 0.35 mff:-5.47  
mrt: 2.74 mrf: 4.29 mtf:-2.19 ( $\times 10^{15} \text{N}\cdot\text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1: 29° 66° 100° P-axis:-8.08 111° 21°  
NP2:185° 26° 69° T-axis: 7.19 317° 67°  
N-axis: 0.89 205° 9°  
V.R.: 80%  $\epsilon$ : -0.11 N:21 COMP:26

2015/08/26 07:51:36.2  
HYUGANADA REGION  
Hypo.:32° 6.4'N 131°51.8'E 34km



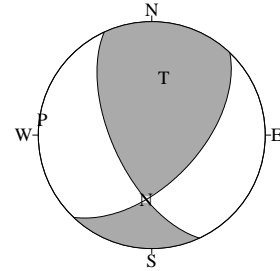
Cent.:32°10.2'N 131°51.1'E 35km  $\Delta t = 5.5$   
Mo:  $6.10 \times 10^{16} \text{N}\cdot\text{m}$  Mw:5.1 Mj:5.2 (sec)  
mrr:-3.62 mtt:-1.90 mff: 5.52  
mrt: 2.88 mrf: 1.14 mtf: 2.09 ( $\times 10^{16} \text{N}\cdot\text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1:342° 46°-144° P-axis:-5.78 183° 53°  
NP2:225° 65° -50° T-axis: 6.43 288° 11°  
N-axis:-0.65 26° 35°  
V.R.: 69%  $\epsilon$ : 0.10 N:23 COMP:39

2015/08/27 12:23:13.6  
ISHIKARI DEPRESSION  
Hypo.:42°45.3'N 142° 8.9'E 137km



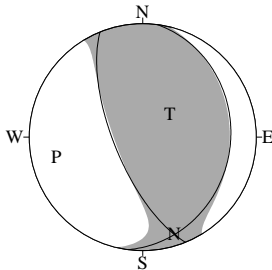
Cent.:42°45.3'N 142° 8.9'E 137km  $\Delta t = 0.5$   
Mo:  $6.41 \times 10^{15} \text{N}\cdot\text{m}$  Mw:4.5 Mj:4.4 (sec)  
mrr:-3.36 mtt: 5.50 mff:-2.14  
mrt: 0.10 mrf: 2.49 mtf: 3.61 ( $\times 10^{15} \text{N}\cdot\text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1:105° 56° -31° P-axis:-5.78 73° 44°  
NP2:213° 65°-142° T-axis: 7.04 337° 6°  
N-axis:-1.26 241° 45°  
V.R.: 80%  $\epsilon$ : 0.18 N:13 COMP:19

2015/08/28 04:10:12.3  
NEAR ETOROFU ISLAND  
Hypo.:44°39.9'N 147°21.9'E 156km



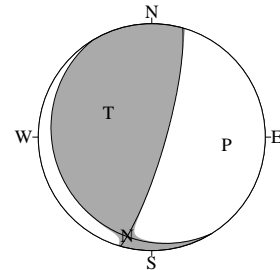
Cent.:44°48.3'N 147°21.9'E 153km  $\Delta t = 2.5$   
Mo:  $4.21 \times 10^{16} \text{N}\cdot\text{m}$  Mw:5.0 Mj:5.0 (sec)  
mrr: 2.26 mtt: 1.76 mff:-4.02  
mrt: 2.02 mrf:-0.69 mtf:-0.98 ( $\times 10^{16} \text{N}\cdot\text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1: 44° 56° 145° P-axis:-4.20 278° 3°  
NP2:155° 61° 40° T-axis: 4.21 12° 47°  
N-axis:-0.01 185° 42°  
V.R.: 76%  $\epsilon$ : 0.00 N:20 COMP:41

2015/08/28 08:04:47.8  
SE OFF KII PENINSULA  
Hypo.:33°47.4'N 137°28.4'E 350km



Cent.:33°47.4'N 137°28.4'E 350km  $\Delta t = 0.4$   
Mo:  $5.06 \times 10^{15} \text{N}\cdot\text{m}$  Mw:4.4 Mj:4.1 (sec)  
mrr: 3.10 mtt: 0.54 mff:-3.64  
mrt: 1.61 mrf:-3.34 mtf: 0.67 ( $\times 10^{15} \text{N}\cdot\text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1: 7° 24° 117° P-axis:-5.29 257° 23°  
NP2:158° 69° 79° T-axis: 4.84 49° 64°  
N-axis: 0.44 162° 11°  
V.R.: 71%  $\epsilon$ : -0.08 N:19 COMP:20

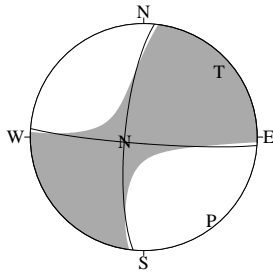
2015/08/28 23:46:19.4  
E OFF IBARAKI PREF  
Hypo.:36°21.2'N 140°56.0'E 46km



Cent.:36°26.7'N 140°56.7'E 44km  $\Delta t = 0.6$   
Mo:  $1.38 \times 10^{16} \text{N}\cdot\text{m}$  Mw:4.7 Mj:4.8 (sec)  
mrr: 0.46 mtt: 0.11 mff:-0.57  
mrt: 0.39 mrf: 1.22 mtf: 0.09 ( $\times 10^{16} \text{N}\cdot\text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1: 16° 80° 101° P-axis:-1.39 96° 34°  
NP2:148° 15° 43° T-axis: 1.37 299° 54°  
N-axis: 0.02 194° 11°  
V.R.: 78%  $\epsilon$ : -0.01 N:36 COMP:46

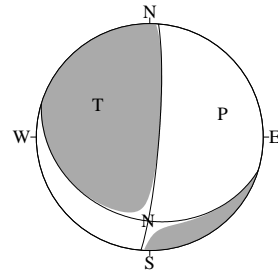
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2015/08/29 00:30:59.8  
 IOTO ISLANDS REGION  
 Hypo.: 23°22.5'N 142°12.9'E 167km



Cent.: 23°11.3'N 142°24.6'E 127km  $\Delta t = 1.4$   
 $M_0 = 7.86 \times 10^{16} \text{N}\cdot\text{m}$   $M_w = 5.2$   $M_j = 5.8$  (sec)  
 $m_{rr} = 1.24$   $m_{tt} = -1.95$   $m_{ff} = 0.70$   
 $m_{rt} = 1.68$   $m_{rf} = -0.41$   $m_{tf} = -7.53$  ( $\times 10^{16} \text{N}\cdot\text{m}$ )  
 STR DIP SLIP MOM AZM PLG  
 NP1: 94° 85° 166° P-axis: -8.37 141° 6°  
 NP2: 185° 76° 5° T-axis: 7.34 49° 13°  
 N-axis: 1.03 255° 76°  
 V.R.: 71%  $\epsilon = -0.12$  N:17 COMP:29

2015/08/30 14:30:58.4  
 NEAR AMAMI-OSHIMA ISLAND  
 Hypo.: 29°43.0'N 130°23.1'E 53km



Cent.: 29°38.4'N 130°24.6'E 55km  $\Delta t = 1.3$   
 $M_0 = 4.08 \times 10^{16} \text{N}\cdot\text{m}$   $M_w = 5.0$   $M_j = 4.8$  (sec)  
 $m_{rr} = 0.86$   $m_{tt} = 0.19$   $m_{ff} = -1.04$   
 $m_{rt} = 0.57$   $m_{rf} = 3.51$   $m_{tf} = 1.76$  ( $\times 10^{16} \text{N}\cdot\text{m}$ )  
 STR DIP SLIP MOM AZM PLG  
 NP1: 4° 83° 117° P-axis: -4.01 72° 33°  
 NP2: 107° 28° 14° T-axis: 4.15 302° 45°  
 N-axis: -0.14 181° 27°  
 V.R.: 77%  $\epsilon = 0.03$  N:32 COMP:59

EQUAL AREA PROJECTON, LOWER HEMISPHERE.