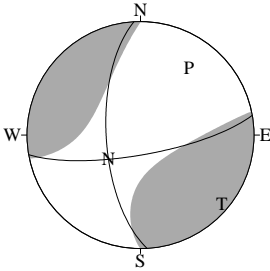


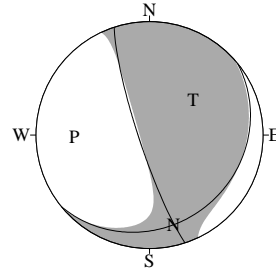
CMT SOLUTIONS FOR EARTHQUAKES IN APRIL, 2014

2014/04/02 07:16:50.5  
SW OFF KYUSHU  
Hypo.:31°11.6'N 128° 8.2'E 9km



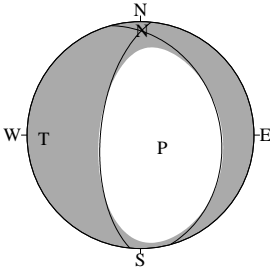
Cent.:31° 9.6'N 128° 6.6'E 23km  $\Delta t = 0.8$   
Mo:  $1.46 \times 10^{16}$  N·m Mw:4.7 Mj:4.8 (sec)  
mrr:-0.57 mtt: 0.01 mff: 0.56  
mrt:-0.44 mrf: 0.01 mtf:  $1.32 \times 10^{16}$  N·m  
STR DIP SLIP MOM AZM PLG  
NP1: 80° 76° -25° P-axis:-1.25 36° 28°  
NP2:177° 65° -164° T-axis: 1.67 130° 7°  
N-axis:-0.41 233° 61°  
V.R.: 68%  $\epsilon$ : 0.25 N:25 COMP:39

2014/04/03 08:22:48.0  
SOUTHERN IWATE PREF  
Hypo.:39°10.2'N 141°45.8'E 64km



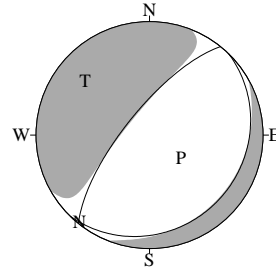
Cent.:39°12.0'N 141°46.0'E 58km  $\Delta t = 3.5$   
Mo:  $1.70 \times 10^{17}$  N·m Mw:5.4 Mj:5.5 (sec)  
mrr: 0.37 mtt: 0.42 mff:-0.79  
mrt: 0.47 mrf:-1.45 mtf:-0.26 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 51° 21° 158° P-axis:-1.80 269° 34°  
NP2:162° 82° 70° T-axis: 1.60 51° 49°  
N-axis: 0.20 165° 19°  
V.R.: 67%  $\epsilon$ :-0.10 N:26 COMP:57

2014/04/05 10:16:18.1  
E OFF IWATE PREF  
Hypo.:39°11.3'N 142°25.2'E 34km



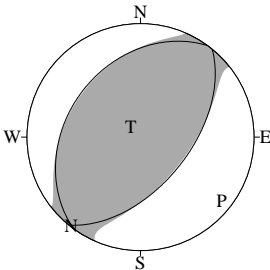
Cent.:39°14.3'N 142°25.1'E 36km  $\Delta t = 4.3$   
Mo:  $1.20 \times 10^{17}$  N·m Mw:5.3 Mj:5.3 (sec)  
mrr:-1.01 mtt: 0.06 mff: 0.95  
mrt: 0.18 mrf: 0.60 mtf:-0.09 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:345° 30° -108° P-axis:-1.20 120° 72°  
NP2:186° 61° -80° T-axis: 1.10 268° 16°  
N-axis: 0.10 1° 9°  
V.R.: 75%  $\epsilon$ :-0.08 N:18 COMP:30

2014/04/07 17:12:31.6  
NEAR AMAMI-OSHIMA ISLAND  
Hypo.:28°48.8'N 129°57.0'E 36km



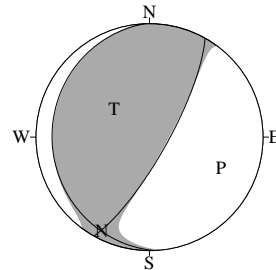
Cent.:28°48.8'N 129°58.5'E 36km  $\Delta t = 0.5$   
Mo:  $7.87 \times 10^{15}$  N·m Mw:4.5 Mj:4.4 (sec)  
mrr:-4.21 mtt: 1.74 mff: 2.47  
mrt: 4.00 mrf: 5.05 mtf: 2.70 ( $\times 10^{15}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 44° 18° -85° P-axis:-7.57 126° 62°  
NP2:219° 72° -92° T-axis: 8.17 310° 27°  
N-axis:-0.61 219° 2°  
V.R.: 52%  $\epsilon$ : 0.07 N:15 COMP:24

2014/04/08 05:07:57.2  
MID NIIGATA PREF  
Hypo.:37°23.1'N 138°57.3'E 9km



Cent.:37°23.1'N 138°57.1'E 10km  $\Delta t = 0.3$   
Mo:  $2.46 \times 10^{15}$  N·m Mw:4.2 Mj:4.4 (sec)  
mrr: 2.24 mtt:-0.80 mff:-1.44  
mrt: 0.56 mrf: 0.63 mtf:-1.23 ( $\times 10^{15}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 39° 55° 92° P-axis:-2.54 128° 10°  
NP2:216° 35° 88° T-axis: 2.39 316° 80°  
N-axis: 0.15 218° 1°  
V.R.: 58%  $\epsilon$ :-0.06 N:15 COMP:20

2014/04/09 00:02: 7.0  
FAR E OFF IBARAKI PREF  
Hypo.:36°18.1'N 141°47.8'E 58km

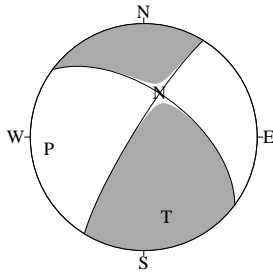


Cent.:36°13.8'N 141°48.6'E 11km  $\Delta t = 0.7$   
Mo:  $1.60 \times 10^{16}$  N·m Mw:4.7 Mj:4.6 (sec)  
mrr: 0.66 mtt: 0.06 mff:-0.73  
mrt: 0.73 mrf: 1.23 mtf:-0.23 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 29° 77° 98° P-axis:-1.64 113° 32°  
NP2:178° 15° 60° T-axis: 1.57 309° 57°  
N-axis: 0.07 207° 8°  
V.R.: 72%  $\epsilon$ :-0.04 N:40 COMP:69

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

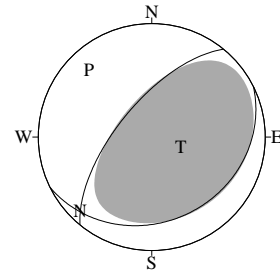
Hypo.:Location of hypocenter, Cent.:Location of centroid,  $\Delta t$ :Centroid time minus origin time  
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude  
mrr,mtt,mff,mrt,mrf,mtf: Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane  
MOM,AZM,PLG: Moment tensor component,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

2014/04/10 11:38: 4.9  
 NEAR ISHIGAKIJIMA ISLAND  
 Hypo.:23°43.7'N 123° 1.5'E 48km



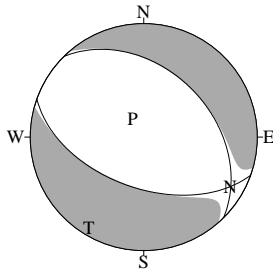
Cent.:23°43.7'N 123° 0.9'E 10km  $\Delta t = 0.5$   
 Mo:  $7.78 \times 10^{15} \text{N}\cdot\text{m}$  Mw:4.5 Mj:4.8 (sec)  
 mrr: 1.04 mtt: 5.48 mff:-6.52  
 mrt:-2.96 mrf:-2.99 mtf: 2.44 ( $\times 10^{15} \text{N}\cdot\text{m}$ )  
 STR DIP SLIP MOM AZM PLG  
 NP1:212° 82° 147° P-axis:-7.71 263° 17°  
 NP2:307° 57° 9° T-axis: 7.84 164° 28°  
 N-axis:-0.13 20° 56°  
 V.R.: 63%  $\epsilon$ : 0.02 N:6 COMP:10

2014/04/13 18:16: 2.5  
 E OFF FUKUSHIMA PREF  
 Hypo.:37°18.4'N 141° 9.9'E 64km



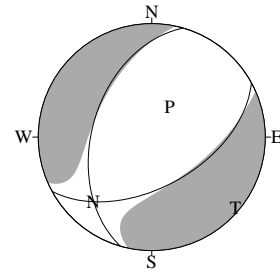
Cent.:37°19.8'N 141° 9.9'E 64km  $\Delta t = 0.7$   
 Mo:  $2.18 \times 10^{16} \text{N}\cdot\text{m}$  Mw:4.8 Mj:4.9 (sec)  
 mrr: 1.71 mtt:-1.06 mff:-0.65  
 mrt:-0.73 mrf:-1.24 mtf:-0.69 ( $\times 10^{16} \text{N}\cdot\text{m}$ )  
 STR DIP SLIP MOM AZM PLG  
 NP1: 64° 26° 112° P-axis:-2.06 317° 20°  
 NP2:219° 66° 79° T-axis: 2.29 109° 68°  
 N-axis:-0.23 224° 10°  
 V.R.: 70%  $\epsilon$ : 0.10 N:38 COMP:68

2014/04/17 03:17:20.4  
 E OFF FUKUSHIMA PREF  
 Hypo.:37°19.1'N 142° 7.2'E 30km



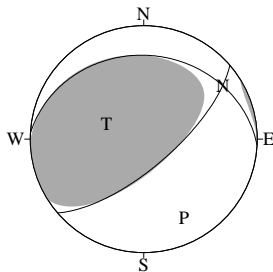
Cent.:37°13.0'N 142° 8.2'E 29km  $\Delta t = 1.2$   
 Mo:  $2.45 \times 10^{16} \text{N}\cdot\text{m}$  Mw:4.9 Mj:5.1 (sec)  
 mrr:-2.22 mtt: 1.68 mff: 0.54  
 mrt:-0.73 mrf:-0.14 mtf:-1.20 ( $\times 10^{16} \text{N}\cdot\text{m}$ )  
 STR DIP SLIP MOM AZM PLG  
 NP1:110° 53°-106° P-axis:-2.40 328° 75°  
 NP2:315° 40° -70° T-axis: 2.50 211° 7°  
 N-axis:-0.10 120° 13°  
 V.R.: 72%  $\epsilon$ : 0.04 N:24 COMP:38

2014/04/17 23:43:59.8  
 E OFF FUKUSHIMA PREF  
 Hypo.:37°31.1'N 142° 5.0'E 33km



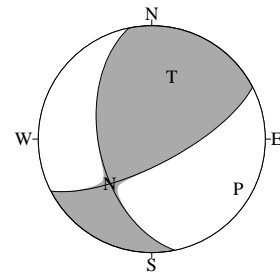
Cent.:37°28.8'N 142° 6.6'E 33km  $\Delta t = 0.8$   
 Mo:  $1.95 \times 10^{16} \text{N}\cdot\text{m}$  Mw:4.8 Mj:5.0 (sec)  
 mrr:-1.54 mtt: 0.50 mff: 1.03  
 mrt:-0.61 mrf: 0.18 mtf: 1.28 ( $\times 10^{16} \text{N}\cdot\text{m}$ )  
 STR DIP SLIP MOM AZM PLG  
 NP1: 61° 54° -59° P-axis:-1.82 31° 65°  
 NP2:196° 46°-125° T-axis: 2.09 130° 4°  
 N-axis:-0.27 222° 24°  
 V.R.: 61%  $\epsilon$ : 0.13 N:21 COMP:31

2014/04/18 07:53: 2.5  
 SW IBARAKI PREF  
 Hypo.:36° 7.4'N 139°50.7'E 49km



Cent.:36° 9.8'N 139°50.8'E 50km  $\Delta t = 0.6$   
 Mo:  $1.54 \times 10^{16} \text{N}\cdot\text{m}$  Mw:4.7 Mj:4.7 (sec)  
 mrr: 1.00 mtt:-0.99 mff:-0.01  
 mrt: 0.71 mrf: 0.90 mtf:-0.32 ( $\times 10^{16} \text{N}\cdot\text{m}$ )  
 STR DIP SLIP MOM AZM PLG  
 NP1: 49° 70° 72° P-axis:-1.48 153° 23°  
 NP2:273° 27° 131° T-axis: 1.61 292° 61°  
 N-axis:-0.13 56° 17°  
 V.R.: 71%  $\epsilon$ : 0.08 N:42 COMP:69

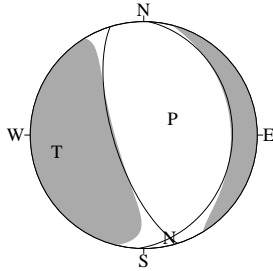
2014/04/18 09:02:29.9  
 HIDAKA REGION  
 Hypo.:42°36.3'N 142°11.6'E 110km



Cent.:42°36.3'N 142°11.9'E 110km  $\Delta t = 0.4$   
 Mo:  $4.65 \times 10^{15} \text{N}\cdot\text{m}$  Mw:4.4 Mj:4.2 (sec)  
 mrr: 1.86 mtt: 1.23 mff:-3.09  
 mrt: 2.66 mrf: 0.16 mtf:-2.69 ( $\times 10^{15} \text{N}\cdot\text{m}$ )  
 STR DIP SLIP MOM AZM PLG  
 NP1: 63° 72° 139° P-axis:-4.67 120° 13°  
 NP2:168° 51° 24° T-axis: 4.63 18° 42°  
 N-axis: 0.04 223° 45°  
 V.R.: 66%  $\epsilon$ : -0.01 N:25 COMP:33

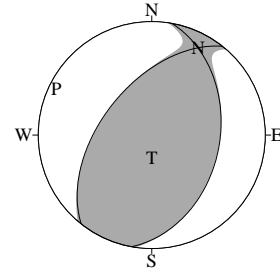
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2014/04/21 04:30:10.2  
 E OFF FUKUSHIMA PREF  
 Hypo.:36°52.1'N 142° 0.5'E 42km



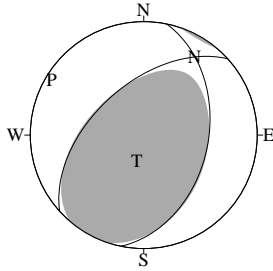
Cent.:36°52.1'N 142° 0.7'E 50km  $\Delta t = 0.5$   
 Mo:  $6.12 \times 10^{15}$  N·m Mw:4.5 Mj:4.7 (sec)  
 mrr:-3.82 mtt:-0.69 mff: 4.51  
 mrt:-1.47 mrf: 4.16 mtf:-0.81 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 3° 23° -72° P-axis:-5.76 60° 66°  
 NP2:163° 68° -98° T-axis: 6.47 259° 23°  
 N-axis:-0.71 166° 7°  
 V.R.: 69%  $\epsilon$ : 0.11 N:43 COMP:64

2014/04/22 20:46:47.3  
 E OFF HACHIJOJIMA ISLAND  
 Hypo.:33°47.8'N 140°48.6'E 54km



Cent.:33°47.8'N 140°49.3'E 54km  $\Delta t = 0.5$   
 Mo:  $9.79 \times 10^{15}$  N·m Mw:4.6 Mj:4.8 (sec)  
 mrr: 8.79 mtt:-0.96 mff:-7.83  
 mrt:-3.04 mrf:-1.16 mtf:-3.95 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 10° 40° 68° P-axis:-9.92 296° 7°  
 NP2:219° 54° 108° T-axis: 9.66 180° 74°  
 N-axis: 0.27 28° 14°  
 V.R.: 73%  $\epsilon$ :-0.03 N:44 COMP:76

2014/04/24 07:25: 6.0  
 NEAR AMAMI-OSHIMA ISLAND  
 Hypo.:27°37.2'N 129°28.6'E 41km



Cent.:27°37.2'N 129°28.5'E 41km  $\Delta t = 0.6$   
 Mo:  $1.17 \times 10^{16}$  N·m Mw:4.6 Mj:4.6 (sec)  
 mrr: 1.07 mtt:-0.23 mff:-0.83  
 mrt:-0.46 mrf: 0.02 mtf:-0.49 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 12° 42° 62° P-axis:-1.12 301° 6°  
 NP2:227° 53° 113° T-axis: 1.22 195° 71°  
 N-axis:-0.10 33° 19°  
 V.R.: 72%  $\epsilon$ : 0.08 N:12 COMP:20

EQUAL AREA PROJECTON, LOWER HEMISPHERE.