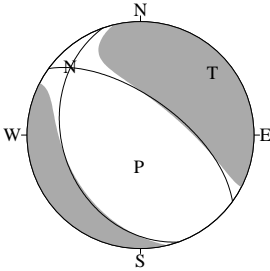


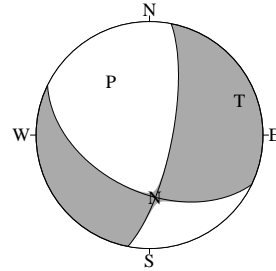
CMT SOLUTIONS FOR EARTHQUAKES IN MARCH, 2014

2014/03/01 15:03:40.8  
SOYA REGION  
Hypo.:44°39.6'N 141°59.8'E 253km



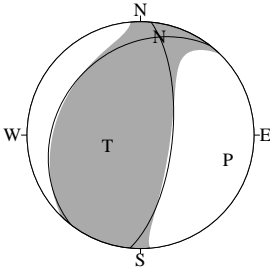
Cent.:44°39.5'N 141°59.7'E 256km  $\Delta t = 0.8$   
Mo:  $2.25 \times 10^{16}$  N·m Mw:4.8 Mj:4.7 (sec)  
mrr:-1.62 mtt: 0.52 mff: 1.10  
mrt: 1.14 mrf:-0.58 mtf:-1.20 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:306° 63°-107° P-axis:-2.12 183° 67°  
NP2:161° 31° -59° T-axis: 2.39 49° 17°  
N-axis:-0.28 314° 15°  
V.R.: 81%  $\epsilon$ : 0.12 N:18 COMP:24

2014/03/03 05:11:22.9  
NW OFF OKINAWAJIMA IS  
Hypo.:27°22.9'N 127°23.7'E 116km



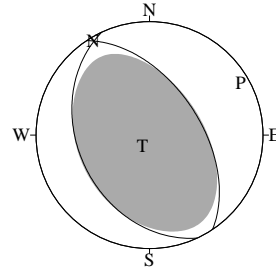
Cent.:27°14.5'N 127°24.1'E 124km  $\Delta t = 4.3$   
Mo:  $5.99 \times 10^{18}$  N·m Mw:6.5 Mj:6.4 (sec)  
mrr:-2.22 mtt:-1.47 mff: 3.69  
mrt:-1.89 mrf:-3.18 mtf:-3.44 ( $\times 10^{18}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 11° 74° -44° P-axis:-6.01 324° 42°  
NP2:116° 49°-158° T-axis: 5.97 69° 16°  
N-axis: 0.04 175° 44°  
V.R.: 78%  $\epsilon$ :-0.01 N:23 COMP:59

2014/03/03 11:27:31.2  
NEAR OKINAWAJIMA ISLAND  
Hypo.:26°18.5'N 127°20.9'E 47km



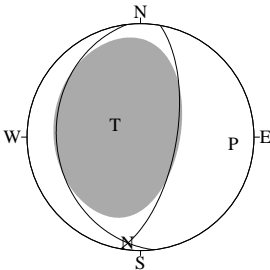
Cent.:26°17.7'N 127°21.4'E 51km  $\Delta t = 1.4$   
Mo:  $4.53 \times 10^{16}$  N·m Mw:5.0 Mj:5.0 (sec)  
mrr: 2.93 mtt: 0.27 mff:-3.20  
mrt: 0.03 mrf: 3.03 mtf:-1.44 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 5° 67° 76° P-axis:-4.81 106° 21°  
NP2:218° 27° 120° T-axis: 4.25 251° 65°  
N-axis: 0.56 11° 13°  
V.R.: 77%  $\epsilon$ :-0.12 N:7 COMP:15

2014/03/04 14:49: 3.1  
NEAR TORISHIMA IS  
Hypo.:30°58.8'N 141°32.7'E 36km



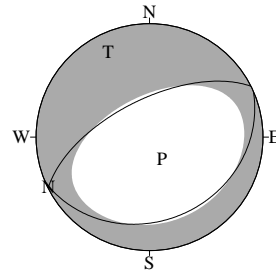
Cent.:30°53.7'N 141°32.8'E 53km  $\Delta t = 1.3$   
Mo:  $5.88 \times 10^{16}$  N·m Mw:5.1 Mj:5.0 (sec)  
mrr: 5.84 mtt:-1.61 mff:-4.23  
mrt:-1.26 mrf: 1.21 mtf: 2.11 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:326° 53° 85° P-axis:-5.64 60° 8°  
NP2:155° 37° 97° T-axis: 6.12 213° 81°  
N-axis:-0.48 329° 4°  
V.R.: 78%  $\epsilon$ : 0.08 N:29 COMP:47

2014/03/08 03:34:23.2  
NEAR CHOSHI CITY  
Hypo.:35°44.6'N 140°40.5'E 51km



Cent.:35°44.5'N 140°42.1'E 51km  $\Delta t = 0.6$   
Mo:  $1.56 \times 10^{16}$  N·m Mw:4.7 Mj:4.5 (sec)  
mrr: 1.34 mtt:-0.24 mff:-1.11  
mrt: 0.30 mrf: 0.92 mtf: 0.01 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 10° 64° 97° P-axis:-1.42 94° 19°  
NP2:174° 27° 75° T-axis: 1.69 295° 70°  
N-axis:-0.27 187° 7°  
V.R.: 56%  $\epsilon$ : 0.16 N:12 COMP:21

2014/03/10 00:13:22.6  
OFF NEMURO PENINSULA  
Hypo.:43°16.4'N 145°52.5'E 90km

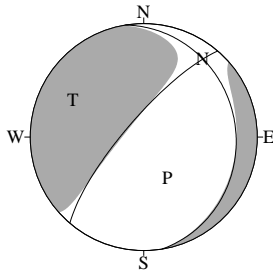


Cent.:43°16.4'N 145°52.5'E 90km  $\Delta t = 0.6$   
Mo:  $1.08 \times 10^{16}$  N·m Mw:4.6 Mj:4.6 (sec)  
mrr:-0.97 mtt: 0.68 mff: 0.29  
mrt: 0.56 mrf: 0.30 mtf: 0.23 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 66° 27° -87° P-axis:-1.17 150° 72°  
NP2:243° 63° -91° T-axis: 0.99 334° 18°  
N-axis: 0.18 244° 1°  
V.R.: 78%  $\epsilon$ :-0.15 N:21 COMP:33

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

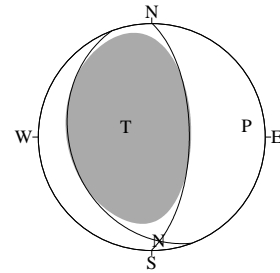
Hypo.:Location of hypocenter, Cent.:Location of centroid,  $\Delta t$ :Centroid time minus origin time  
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude  
mrr,mtt,mff,mrt,mrf,mtf: Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane  
MOM,AZM,PLG: Moment tensor component,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

2014/03/10 23:13:27.2  
 NEAR AMAMI-OSHIMA ISLAND  
 Hypo.: 29°17.6'N 130°27.6'E 44km



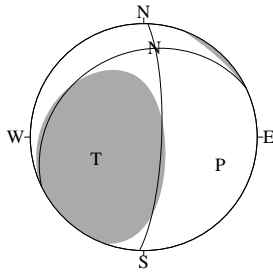
Cent.: 29°17.6'N 130°28.6'E 20km  $\Delta t = 0.5$   
 Mo:  $9.85 \times 10^{15}$  N·m Mw: 4.6 Mj: 4.5 (sec)  
 mrr: -3.85 mtt: -1.03 mff: 4.88  
 mrt: 5.74 mrf: 6.28 mtf: 2.29 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 351° 20° -138° P-axis: -9.41 150° 56°  
 NP2: 221° 77° -75° T-axis: 10.28 298° 30°  
 N-axis: -0.88 37° 15°  
 V.R.: 58%  $\epsilon$ : 0.09 N:13 COMP:23

2014/03/12 05:04:32.7  
 NORTHERN CHIBA PREF  
 Hypo.: 35°48.1'N 140° 5.9'E 66km



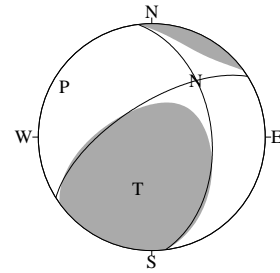
Cent.: 35°48.1'N 140° 6.7'E 66km  $\Delta t = 0.6$   
 Mo:  $1.16 \times 10^{16}$  N·m Mw: 4.6 Mj: 4.4 (sec)  
 mrr: 0.98 mtt: -0.11 mff: -0.87  
 mrt: 0.12 mrf: 0.67 mtf: 0.16 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 0° 63° 100° P-axis: -1.10 83° 17°  
 NP2: 159° 29° 71° T-axis: 1.21 291° 70°  
 N-axis: -0.11 176° 9°  
 V.R.: 66%  $\epsilon$ : 0.09 N:43 COMP:77

2014/03/14 02:06:50.8  
 IYONADA SETONAIKAI  
 Hypo.: 33°41.5'N 131°53.4'E 78km



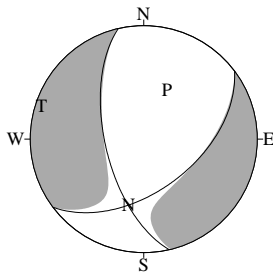
Cent.: 33°38.7'N 131°53.2'E 79km  $\Delta t = 6.7$   
 Mo:  $3.81 \times 10^{18}$  N·m Mw: 6.3 Mj: 6.2 (sec)  
 mrr: 1.80 mtt: -0.85 mff: -0.95  
 mrt: -0.72 mrf: 3.24 mtf: -1.33 ( $\times 10^{18}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 2° 77° 67° P-axis: -3.33 110° 29°  
 NP2: 244° 26° 150° T-axis: 4.30 245° 52°  
 N-axis: -0.98 7° 22°  
 V.R.: 77%  $\epsilon$ : 0.23 N:22 COMP:54

2014/03/16 05:04:38.5  
 TAIWAN REGION  
 Hypo.: 22°29.0'N 121°30.8'E 11km



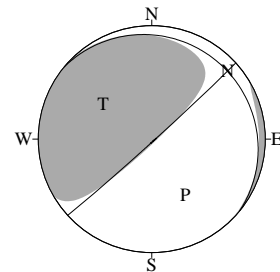
Cent.: 22°12.0'N 121°29.4'E 15km  $\Delta t = 2.0$   
 Mo:  $3.42 \times 10^{16}$  N·m Mw: 5.0 Mj: 4.5 (sec)  
 mrr: 1.91 mtt: 0.41 mff: -2.32  
 mrt: -2.28 mrf: 0.10 mtf: -1.47 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 353° 46° 34° P-axis: -3.13 300° 12°  
 NP2: 238° 66° 131° T-axis: 3.72 195° 51°  
 N-axis: -0.58 38° 37°  
 V.R.: 74%  $\epsilon$ : 0.16 N:7 COMP:17

2014/03/17 18:02:48.9  
 E OFF FUKUSHIMA PREF  
 Hypo.: 36°54.6'N 141°28.1'E 33km



Cent.: 36°52.8'N 141°28.7'E 10km  $\Delta t = 0.5$   
 Mo:  $1.54 \times 10^{16}$  N·m Mw: 4.7 Mj: 5.1 (sec)  
 mrr: -0.89 mtt: -0.43 mff: 1.32  
 mrt: -0.55 mrf: 0.44 mtf: 0.72 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 53° 53° -36° P-axis: -1.47 25° 50°  
 NP2: 167° 62° -136° T-axis: 1.60 288° 6°  
 N-axis: -0.13 193° 40°  
 V.R.: 65%  $\epsilon$ : 0.08 N:23 COMP:44

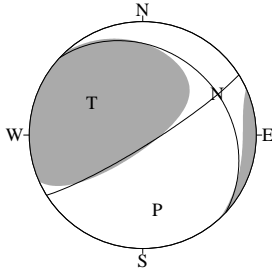
2014/03/17 22:12:55.9  
 NW OFF ISHIGAKIJIMA IS  
 Hypo.: 23°58.2'N 122°25.1'E 21km



Cent.: 23°49.3'N 122°24.7'E 11km  $\Delta t = 2.2$   
 Mo:  $5.41 \times 10^{16}$  N·m Mw: 5.1 Mj: 5.4 (sec)  
 mrr: 0.52 mtt: -1.30 mff: 0.78  
 mrt: 3.81 mrf: 3.68 mtf: 0.28 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 48° 88° 79° P-axis: -5.18 149° 42°  
 NP2: 309° 11° 171° T-axis: 5.64 306° 46°  
 N-axis: -0.46 48° 11°  
 V.R.: 62%  $\epsilon$ : 0.08 N:7 COMP:16

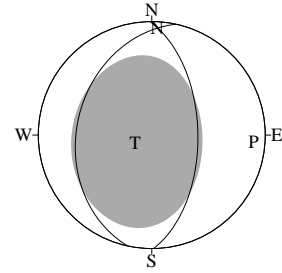
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2014/03/19 21:19:25.9  
 TAIWAN REGION  
 Hypo.: 23°56.2'N 122°16.9'E 21km



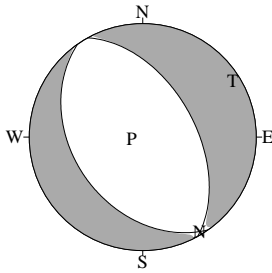
Cent.: 23°55.8'N 122°16.1'E 13km  $\Delta t = 6.8$   
 Mo:  $4.20 \times 10^{17}$  N·m Mw: 5.7 Mj: 6.0 (sec)  
 mrr: 1.12 mtt: -2.20 mff: 1.08  
 mrt: 2.82 mrf: 2.50 mtf: 0.70 ( $\times 10^{17}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 58° 83° 64° P-axis: -3.90 169° 33°  
 NP2: 313° 27° 163° T-axis: 4.60 302° 46°  
 N-axis: -0.70 61° 26°  
 V.R.: 57%  $\epsilon$ : 0.14 N:6 COMP:17

2014/03/22 20:05:39.0  
 IYONADA SETONAIKAI  
 Hypo.: 33°40.7'N 131°53.8'E 77km



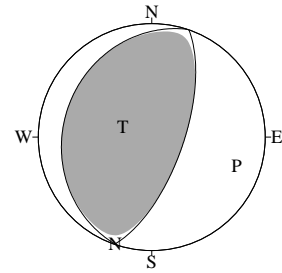
Cent.: 33°40.7'N 131°53.9'E 77km  $\Delta t = 0.4$   
 Mo:  $4.12 \times 10^{15}$  N·m Mw: 4.3 Mj: 4.2 (sec)  
 mrr: 4.24 mtt: -0.97 mff: -3.27  
 mrt: -0.48 mrf: 1.61 mtf: -0.30 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 359° 57° 83° P-axis: -3.62 94° 11°  
 NP2: 192° 34° 101° T-axis: 4.63 245° 77°  
 N-axis: -1.01 3° 6°  
 V.R.: 78%  $\epsilon$ : 0.22 N:23 COMP:36

2014/03/26 17:49:42.4  
 N PHILIPPINE BASIN  
 Hypo.: 28° 7.8'N 131°36.3'E 77km



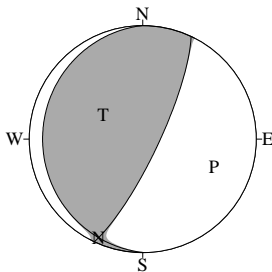
Cent.: 28° 2.7'N 131°36.1'E 19km  $\Delta t = 2.9$   
 Mo:  $1.80 \times 10^{17}$  N·m Mw: 5.4 Mj: 5.3 (sec)  
 mrr: -1.77 mtt: 0.49 mff: 1.28  
 mrt: 0.15 mrf: -0.42 mtf: -0.81 ( $\times 10^{17}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 331° 52° -86° P-axis: -1.80 261° 82°  
 NP2: 145° 38° -95° T-axis: 1.80 58° 7°  
 N-axis: 0.00 149° 3°  
 V.R.: 80%  $\epsilon$ : 0.01 N:22 COMP:47

2014/03/29 10:53:57.6  
 FAR E OFF IBARAKI PREF  
 Hypo.: 36°22.2'N 141°48.8'E 53km



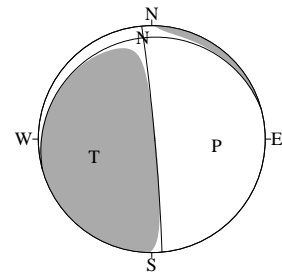
Cent.: 36°30.1'N 141°49.3'E 24km  $\Delta t = 8.5$   
 Mo:  $1.70 \times 10^{17}$  N·m Mw: 5.4 Mj: 5.3 (sec)  
 mrr: 1.22 mtt: -0.15 mff: -1.07  
 mrt: 0.39 mrf: 1.11 mtf: -0.35 ( $\times 10^{17}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 19° 67° 91° P-axis: -1.70 109° 22°  
 NP2: 198° 23° 89° T-axis: 1.70 290° 68°  
 N-axis: 0.00 199° 1°  
 V.R.: 69%  $\epsilon$ : 0.02 N:25 COMP:56

2014/03/29 16:39:47.0  
 E OFF AOMORI PREF  
 Hypo.: 40°54.9'N 143°15.6'E 26km



Cent.: 40°51.0'N 143°16.4'E 26km  $\Delta t = 0.8$   
 Mo:  $1.37 \times 10^{16}$  N·m Mw: 4.7 Mj: 4.8 (sec)  
 mrr: 0.53 mtt: 0.01 mff: -0.54  
 mrt: 0.56 mrf: 1.13 mtf: -0.13 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 25° 78° 96° P-axis: -1.38 111° 33°  
 NP2: 179° 13° 64° T-axis: 1.37 302° 56°  
 N-axis: 0.01 204° 5°  
 V.R.: 56%  $\epsilon$ : -0.01 N:21 COMP:40

2014/03/30 20:11:57.3  
 E OFF FUKUSHIMA PREF  
 Hypo.: 37°16.3'N 142° 8.2'E 33km



Cent.: 37°16.3'N 142° 9.0'E 10km  $\Delta t = 0.6$   
 Mo:  $1.30 \times 10^{16}$  N·m Mw: 4.7 Mj: 4.8 (sec)  
 mrr: 0.12 mtt: -0.01 mff: -0.11  
 mrt: -0.14 mrf: 1.26 mtf: -0.25 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 355° 88° 79° P-axis: -1.27 96° 42°  
 NP2: 255° 12° 170° T-axis: 1.32 253° 46°  
 N-axis: -0.05 355° 11°  
 V.R.: 57%  $\epsilon$ : 0.04 N:19 COMP:27

EQUAL AREA PROJECTON, LOWER HEMISPHERE.