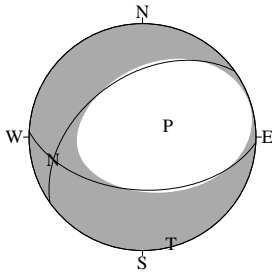


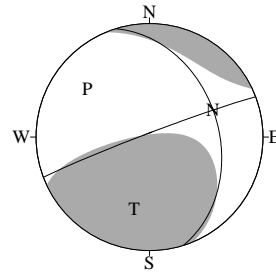
CMT SOLUTIONS FOR EARTHQUAKES IN MAY, 2014

2014/05/02 18:15:22.0  
 FAR E OFF NORTH HONSHU  
 Hypo.:37°56.3'N 144° 8.0'E 48km



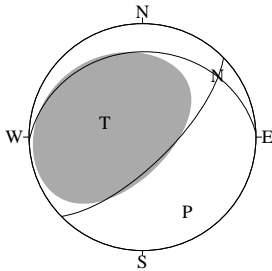
Cent.:37°51.0'N 144° 9.6'E 11km  $\Delta t = -1.5$   
 Mo:  $2.90 \times 10^{17}$  N·m Mw:5.6 Mj:5.6 (sec)  
 mrr:-2.72 mtt: 2.44 mff:0.28  
 mrt:-0.60 mrf: 1.06 mtf: 0.72 ( $\times 10^{17}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 93° 51° -64° P-axis:-3.20 66° 70°  
 NP2:235° 45° -119° T-axis: 2.70 165° 3°  
 N-axis: 0.50 256° 20°  
 V.R.: 78%  $\epsilon$ : -0.16 N:22 COMP:54

2014/05/03 19:57:14.0  
 IOTO ISLANDS REGION  
 Hypo.:22°34.5'N 144°22.4'E 107km



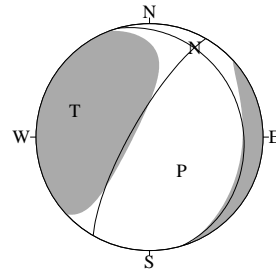
Cent.:22°43.6'N 144°30.4'E 83km  $\Delta t = 4.9$   
 Mo:  $2.50 \times 10^{17}$  N·m Mw:5.5 Mj:6.0 (sec)  
 mrr: 0.13 mtt: 1.08 mff:-1.21  
 mrt:-1.98 mrf:-0.22 mtf:-1.04 ( $\times 10^{17}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1:249° 87° 129° P-axis:-2.20 308° 31°  
 NP2:343° 39° 4° T-axis: 2.80 192° 36°  
 N-axis:-0.60 67° 39°  
 V.R.: 75%  $\epsilon$ : 0.21 N:7 COMP:16

2014/05/05 05:02:16.6  
 SW IBARAKI PREF  
 Hypo.:36° 7.1'N 139°50.7'E 49km



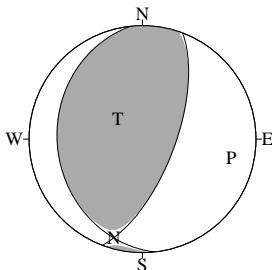
Cent.:36° 7.2'N 139°50.9'E 49km  $\Delta t = 0.4$   
 Mo:  $2.99 \times 10^{15}$  N·m Mw:4.3 Mj:4.2 (sec)  
 mrr: 2.06 mtt:-1.77 mff:-0.29  
 mrt: 1.21 mrf: 1.96 mtf:-0.44 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 46° 70° 73° P-axis:-2.66 149° 24°  
 NP2:268° 26° 130° T-axis: 3.32 290° 61°  
 N-axis:-0.66 51° 16°  
 V.R.: 59%  $\epsilon$ : 0.20 N:42 COMP:57

2014/05/05 05:18:25.4  
 SAGAMINADA  
 Hypo.:34°57.1'N 139°28.8'E 156km



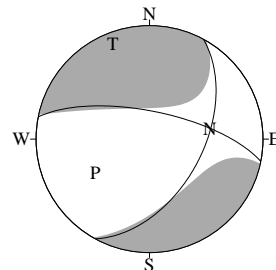
Cent.:34°57.4'N 139°28.8'E 160km  $\Delta t = 2.2$   
 Mo:  $1.17 \times 10^{18}$  N·m Mw:6.0 Mj:6.0 (sec)  
 mrr:-0.39 mtt:-0.27 mff: 0.66  
 mrt: 0.48 mrf: 0.89 mtf: 0.23 ( $\times 10^{18}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1:343° 19° -135° P-axis:-1.03 137° 56°  
 NP2:210° 77° -77° T-axis: 1.30 289° 31°  
 N-axis:-0.27 27° 13°  
 V.R.: 73%  $\epsilon$ : 0.21 N:11 COMP:29

2014/05/06 08:00:21.2  
 E OFF AOMORI PREF  
 Hypo.:41°29.7'N 142° 2.6'E 64km



Cent.:41°29.7'N 142° 2.9'E 64km  $\Delta t = 0.6$   
 Mo:  $1.14 \times 10^{16}$  N·m Mw:4.6 Mj:4.5 (sec)  
 mrr: 0.83 mtt: 0.02 mff:-0.84  
 mrt: 0.36 mrf: 0.69 mtf:-0.11 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 20° 67° 101° P-axis:-1.14 102° 21°  
 NP2:174° 26° 66° T-axis: 1.15 310° 67°  
 N-axis:-0.02 196° 10°  
 V.R.: 70%  $\epsilon$ : 0.02 N:34 COMP:49

2014/05/12 17:19:35.2  
 W OFF OGASAWARA  
 Hypo.:28°19.1'N 139° 8.9'E 544km

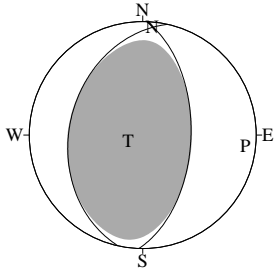


Cent.:28°22.5'N 139°10.2'E 543km  $\Delta t = 0.5$   
 Mo:  $2.33 \times 10^{16}$  N·m Mw:4.8 Mj:4.9 (sec)  
 mrr:-1.11 mtt: 1.80 mff:-0.70  
 mrt: 0.99 mrf:-0.49 mtf: 1.37 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 28° 51° -154° P-axis:-2.11 238° 43°  
 NP2:281° 70° -42° T-axis: 2.55 339° 11°  
 N-axis:-0.44 80° 45°  
 V.R.: 80%  $\epsilon$ : 0.17 N:8 COMP:10

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

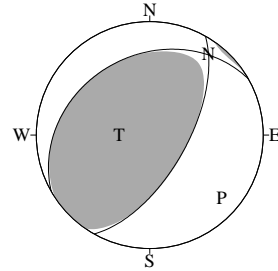
Hypo.:Location of hypocenter, Cent.:Location of centroid,  $\Delta t$ :Centroid time minus origin time  
 Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude  
 mrr,mtt,mff,mrt,mrf,mtf: Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane  
 MOM,AZM,PLG: Moment tensor component,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

2014/05/13 08:35: 2.9  
 CENTRAL CHIBA PREF  
 Hypo.:35°34.0'N 140° 6.8'E 72km



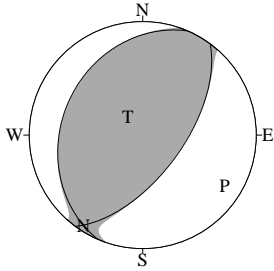
Cent.:35°34.8'N 140° 7.0'E 61km  $\Delta t = 5.3$   
 Mo:  $3.85 \times 10^{16}$  N·m Mw:5.0 Mj:4.9 (sec)  
 mrr: 3.70 mtt:-0.23 mff:-3.47  
 mrt:-0.22 mrf: 1.32 mtf:-0.43 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 2° 55° 84° P-axis:-3.75 96° 10°  
 NP2:193° 35° 99° T-axis: 3.95 249° 79°  
 N-axis:-0.21 5° 5°  
 V.R.: 79%  $\epsilon$ : 0.05 N:42 COMP:75

2014/05/14 08:03:23.5  
 S OFF URAKAWA  
 Hypo.:41°59.5'N 142°34.1'E 62km



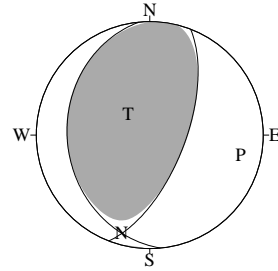
Cent.:41°59.5'N 142°34.1'E 62km  $\Delta t = 0.5$   
 Mo:  $8.43 \times 10^{15}$  N·m Mw:4.6 Mj:4.5 (sec)  
 mrr: 6.68 mtt:-3.39 mff:-3.29  
 mrt: 1.42 mrf: 4.77 mtf:-3.60 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 29° 63° 75° P-axis:-8.28 131° 17°  
 NP2:240° 30° 117° T-axis: 8.59 270° 68°  
 N-axis:-0.32 36° 13°  
 V.R.: 63%  $\epsilon$ : 0.04 N:29 COMP:36

2014/05/17 09:50:30.9  
 FAR E OFF KANTO  
 Hypo.:36°27.1'N 142°37.4'E 32km



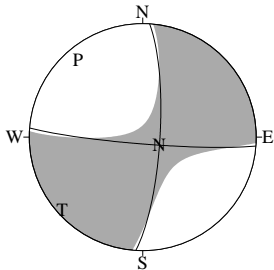
Cent.:36°16.6'N 142°39.4'E 19km  $\Delta t = 1.4$   
 Mo:  $1.05 \times 10^{16}$  N·m Mw:4.6 Mj:4.6 (sec)  
 mrr: 0.86 mtt:-0.20 mff:-0.67  
 mrt: 0.38 mrf: 0.43 mtf:-0.41 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 36° 62° 96° P-axis:-1.06 122° 16°  
 NP2:203° 29° 79° T-axis: 1.03 321° 73°  
 N-axis: 0.03 213° 5°  
 V.R.: 75%  $\epsilon$ :-0.03 N:10 COMP:16

2014/05/19 21:02:28.8  
 E OFF AOMORI PREF  
 Hypo.:40°58.2'N 142° 0.6'E 57km



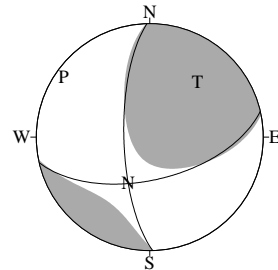
Cent.:40°58.2'N 142° 1.0'E 57km  $\Delta t = 0.3$   
 Mo:  $2.69 \times 10^{15}$  N·m Mw:4.2 Mj:4.2 (sec)  
 mrr: 2.09 mtt:-0.01 mff:-2.08  
 mrt: 0.85 mrf: 1.45 mtf:-0.27 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 21° 64° 102° P-axis:-2.64 102° 19°  
 NP2:175° 28° 66° T-axis: 2.75 315° 68°  
 N-axis:-0.11 196° 11°  
 V.R.: 60%  $\epsilon$ : 0.04 N:17 COMP:23

2014/05/19 22:12:13.3  
 NEAR TORISHIMA IS  
 Hypo.:29°53.4'N 140°34.5'E 106km



Cent.:29°53.7'N 140°37.0'E 136km  $\Delta t = 0.6$   
 Mo:  $1.37 \times 10^{16}$  N·m Mw:4.7 Mj:4.8 (sec)  
 mrr: 0.10 mtt:-0.24 mff: 0.14  
 mrt:-0.32 mrf:-0.14 mtf:-1.31 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 3° 78° -5° P-axis:-1.45 320° 12°  
 NP2: 95° 85°-168° T-axis: 1.29 228° 5°  
 N-axis: 0.16 115° 77°  
 V.R.: 77%  $\epsilon$ :-0.11 N:23 COMP:42

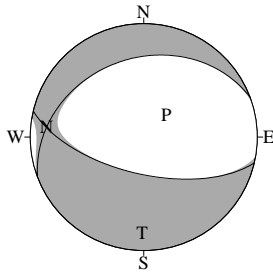
2014/05/21 09:21:12.6  
 TAIWAN REGION  
 Hypo.:23°41.4'N 121°28.0'E 25km



Cent.:23°30.1'N 121°28.0'E 27km  $\Delta t = 1.3$   
 Mo:  $2.30 \times 10^{17}$  N·m Mw:5.5 Mj:5.7 (sec)  
 mrr: 0.59 mtt: 0.11 mff:-0.69  
 mrt: 0.86 mrf:-1.07 mtf:-1.71 ( $\times 10^{17}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 77° 59° 158° P-axis:-2.10 305° 8°  
 NP2:179° 71° 33° T-axis: 2.40 41° 36°  
 N-axis:-0.40 205° 53°  
 V.R.: 68%  $\epsilon$ : 0.15 N:8 COMP:20

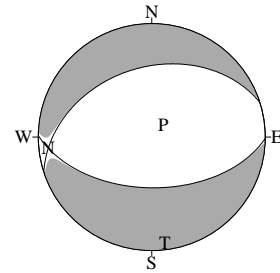
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2014/05/24 14:59: 4.6  
 NW OFF MIYAKOJIMA ISLAND  
 Hypo.: 25°58.0'N 125°34.3'E 7km



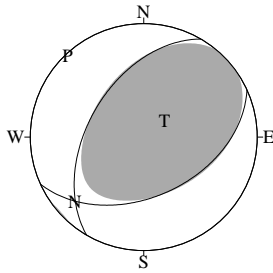
Cent.: 25°58.0'N 125°33.8'E 10km  $\Delta t = 0.4$   
 Mo:  $4.59 \times 10^{15}$  N·m Mw: 4.4 Mj: 4.5 (sec)  
 mrr: -3.58 mtt: 3.80 mff: -0.22  
 mrt: -2.42 mrf: 1.23 mtf: 0.29 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 103° 63° -73° P-axis: -4.66 45° 67°  
 NP2: 249° 31° -120° T-axis: 4.52 181° 17°  
 N-axis: 0.14 276° 15°  
 V.R.: 15%  $\epsilon$ : -0.03 N: 6 COMP: 8

2014/05/24 15:02: 17.5  
 NW OFF MIYAKOJIMA ISLAND  
 Hypo.: 25°56.8'N 125°36.5'E 11km



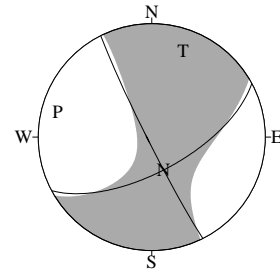
Cent.: 25°56.8'N 125°36.1'E 11km  $\Delta t = 0.5$   
 Mo:  $9.34 \times 10^{15}$  N·m Mw: 4.6 Mj: 4.6 (sec)  
 mrr: -8.75 mtt: 8.88 mff: -0.13  
 mrt: -2.54 mrf: 1.12 mtf: 1.38 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 91° 53° -79° P-axis: -9.30 44° 78°  
 NP2: 252° 38° -105° T-axis: 9.39 173° 7°  
 N-axis: -0.10 264° 9°  
 V.R.: 60%  $\epsilon$ : 0.01 N: 6 COMP: 8

2014/05/25 21:41: 10.8  
 TAIWAN REGION  
 Hypo.: 22°59.9'N 121°23.2'E 0km



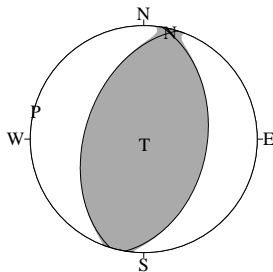
Cent.: 22°59.9'N 121°21.8'E 10km  $\Delta t = 0.5$   
 Mo:  $7.25 \times 10^{15}$  N·m Mw: 4.5 Mj: 4.5 (sec)  
 mrr: 6.75 mtt: -3.74 mff: -3.01  
 mrt: 1.40 mrf: -2.09 mtf: -3.50 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 65° 46° 116° P-axis: -6.90 317° 2°  
 NP2: 210° 49° 65° T-axis: 7.60 52° 71°  
 N-axis: -0.69 227° 18°  
 V.R.: 60%  $\epsilon$ : 0.09 N: 4 COMP: 8

2014/05/27 22:15: 30.0  
 SE OFF ETOROFU  
 Hypo.: 44°48.5'N 149°44.4'E 30km



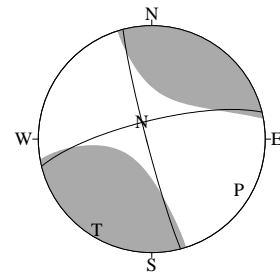
Cent.: 44°48.4'N 149°45.7'E 50km  $\Delta t = 0.5$   
 Mo:  $5.64 \times 10^{15}$  N·m Mw: 4.4 Mj: 5.0 (sec)  
 mrr: 0.98 mtt: 3.79 mff: -4.77  
 mrt: 0.79 mrf: -2.18 mtf: -2.85 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 62° 65° 176° P-axis: -6.13 285° 15°  
 NP2: 153° 87° 25° T-axis: 5.15 20° 20°  
 N-axis: 0.98 160° 65°  
 V.R.: 75%  $\epsilon$ : -0.16 N: 8 COMP: 11

2014/05/28 01:12: 9.3  
 E OFF HACHIJOJIMA ISLAND  
 Hypo.: 32°35.7'N 140°48.1'E 50km



Cent.: 32°24.3'N 140°48.6'E 57km  $\Delta t = 1.6$   
 Mo:  $3.04 \times 10^{16}$  N·m Mw: 4.9 Mj: 5.0 (sec)  
 mrr: 3.00 mtt: -0.11 mff: -2.89  
 mrt: -0.25 mrf: -0.13 mtf: -0.70 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 9° 43° 84° P-axis: -3.06 284° 2°  
 NP2: 197° 47° 96° T-axis: 3.02 170° 86°  
 N-axis: 0.04 14° 4°  
 V.R.: 77%  $\epsilon$ : -0.01 N: 28 COMP: 47

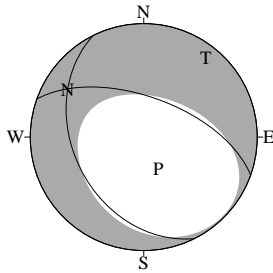
2014/05/29 01:58: 5.4  
 TAIWAN REGION  
 Hypo.: 21°46.4'N 121°48.3'E 19km



Cent.: 21°37.5'N 121°47.7'E 11km  $\Delta t = 1.4$   
 Mo:  $9.80 \times 10^{15}$  N·m Mw: 4.6 Mj: 4.5 (sec)  
 mrr: -2.42 mtt: 5.70 mff: -3.28  
 mrt: -0.65 mrf: 1.91 mtf: -8.45 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 256° 77° -176° P-axis: -8.63 120° 12°  
 NP2: 165° 86° -13° T-axis: 10.96 211° 7°  
 N-axis: -2.32 330° 76°  
 V.R.: 89%  $\epsilon$ : 0.21 N: 5 COMP: 10

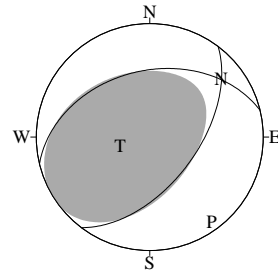
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2014/05/29 09:17:58.7  
 NEAR HACHIJOJIMA ISLAND  
 Hypo.: 33°24.1'N 139°28.3'E 30km



Cent.: 33°24.1'N 139°28.0'E 10km  $\Delta t = 0.4$   
 Mo:  $5.60 \times 10^{15}$  N·m Mw: 4.4 Mj: 4.5 (sec)  
 mrr: -4.71 mtt: 2.34 mff: 2.37  
 mrt: 3.29 mrf: 0.78 mtf: -2.18 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 154° 38° -53° P-axis: -6.28 155° 65°  
 NP2: 290° 61° -115° T-axis: 4.92 38° 12°  
 N-axis: 1.36 302° 22°  
 V.R.: 70%  $\epsilon$ : -0.22 N: 28 COMP: 45

2014/05/30 20:21:58.1  
 KUSHIRO REGION  
 Hypo.: 43° 4.6'N 145° 0.2'E 62km



Cent.: 43° 4.6'N 145° 0.1'E 62km  $\Delta t = 0.3$   
 Mo:  $1.66 \times 10^{15}$  N·m Mw: 4.1 Mj: 4.2 (sec)  
 mrr: 1.47 mtt: -1.06 mff: -0.41  
 mrt: -0.04 mrf: 0.77 mtf: -0.68 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 37° 56° 65° P-axis: -1.54 144° 8°  
 NP2: 256° 41° 122° T-axis: 1.78 254° 68°  
 N-axis: -0.24 51° 20°  
 V.R.: 61%  $\epsilon$ : 0.13 N: 13 COMP: 16

EQUAL AREA PROJECTON, LOWER HEMISPHERE.