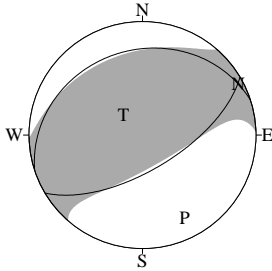


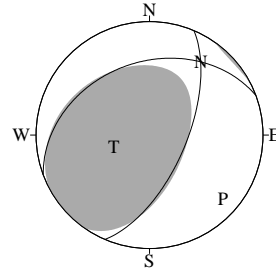
CMT SOLUTIONS FOR EARTHQUAKES IN MARCH, 2017

2017/03/01 09:42:44.8  
SE OFF ETOROFU  
Hypo.:43°56.8'N 148°19.6'E 0km



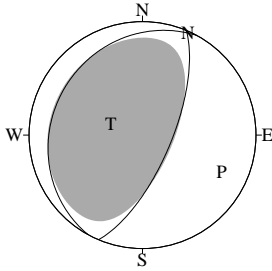
Cent.:43°56.8'N 148°19.2'E 20km  $\Delta t = 8.6$   
Mo:  $1.41 \times 10^{16}$  N·m Mw:4.7 Mj:4.8 (sec)  
mrr: 0.98 mtt:-0.95 mff:-0.03  
mrt: 0.75 mrf: 0.48 mtf:-0.56 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 59° 65° 84° P-axis: -1.52 153° 19°  
NP2: 253° 26° 102° T-axis: 1.30 317° 70°  
N-axis: 0.22 62° 5°  
V.R.: 72%  $\epsilon$ : -0.15 N:14 COMP:22

2017/03/01 15:08:58.5  
IOTO ISLANDS REGION  
Hypo.:22° 6.8'N 143° 0.1'E 321km



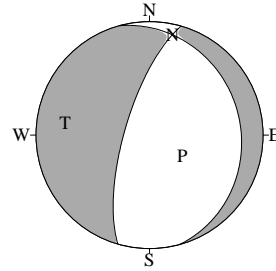
Cent.:22° 2.8'N 143° 4.6'E 295km  $\Delta t = 1.2$   
Mo:  $5.05 \times 10^{16}$  N·m Mw:5.1 Mj:5.5 (sec)  
mrr: 3.87 mtt:-2.23 mff:-1.64  
mrt:-0.14 mrf: 3.14 mtf:-2.18 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 23° 63° 65° P-axis: -4.66 131° 15°  
NP2: 250° 36° 130° T-axis: 5.44 252° 63°  
N-axis: -0.77 35° 22°  
V.R.: 75%  $\epsilon$ : 0.14 N:10 COMP:14

2017/03/01 15:43:3.9  
E OFF FUKUSHIMA PREF  
Hypo.:37°31.4'N 141°27.2'E 49km



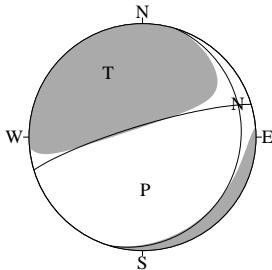
Cent.:37°32.2'N 141°27.6'E 49km  $\Delta t = 0.7$   
Mo:  $2.83 \times 10^{16}$  N·m Mw:4.9 Mj:4.9 (sec)  
mrr: 2.02 mtt:-0.57 mff:-1.45  
mrt: 0.77 mrf: 1.97 mtf:-0.58 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 23° 69° 88° P-axis: -2.69 115° 24°  
NP2: 209° 21° 96° T-axis: 2.97 289° 66°  
N-axis: -0.28 24° 2°  
V.R.: 75%  $\epsilon$ : 0.10 N:43 COMP:74

2017/03/02 23:53:42.6  
HYUGANADA REGION  
Hypo.:32°38.7'N 132° 7.9'E 37km



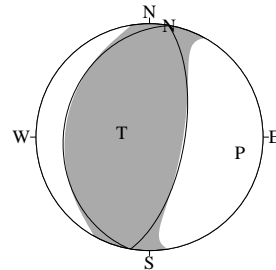
Cent.:32°45.1'N 132° 7.3'E 32km  $\Delta t = 5.3$   
Mo:  $8.73 \times 10^{16}$  N·m Mw:5.2 Mj:5.3 (sec)  
mrr: -5.02 mtt:-0.47 mff: 5.49  
mrt: 2.41 mrf: 6.53 mtf: 0.05 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 345° 21° -120° P-axis: -8.72 122° 62°  
NP2: 196° 72° -79° T-axis: 8.75 278° 26°  
N-axis: -0.03 13° 10°  
V.R.: 82%  $\epsilon$ : 0.00 N:15 COMP:27

2017/03/03 17:27:37.0  
OFF NEMURO PENINSULA  
Hypo.:43° 4.6'N 145°28.7'E 93km



Cent.:43° 6.4'N 145°28.9'E 92km  $\Delta t = 0.5$   
Mo:  $2.38 \times 10^{16}$  N·m Mw:4.9 Mj:4.9 (sec)  
mrr: -0.55 mtt: 0.42 mff: 0.13  
mrt: 2.13 mrf: 0.65 mtf: 0.71 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 17° 15° -146° P-axis: -2.25 177° 52°  
NP2: 253° 82° -78° T-axis: 2.51 332° 36°  
N-axis: -0.26 71° 12°  
V.R.: 81%  $\epsilon$ : 0.10 N:10 COMP:13

2017/03/05 10:18:54.5  
NEAR CHOSHI CITY  
Hypo.:35°44.1'N 140°43.2'E 52km

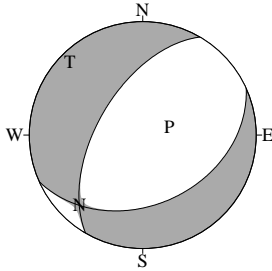


Cent.:35°40.6'N 140°44.6'E 53km  $\Delta t = 0.8$   
Mo:  $2.03 \times 10^{16}$  N·m Mw:4.8 Mj:4.7 (sec)  
mrr: 1.47 mtt: 0.15 mff: -1.61  
mrt: 0.21 mrf: 1.27 mtf: -0.32 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 10° 65° 90° P-axis: -2.13 100° 20°  
NP2: 190° 25° 91° T-axis: 1.93 279° 70°  
N-axis: 0.20 10° 0°  
V.R.: 72%  $\epsilon$ : -0.10 N:35 COMP:50

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

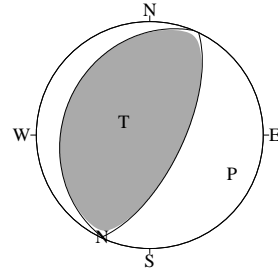
Hypo.:Location of hypocenter, Cent.:Location of centroid,  $\Delta t$ :Centroid time minus origin time  
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude  
mrr,mtt,mff,mrt,mrf,mtf: Moment tensor components, STR,DIP,SLIP: Fault parameters of nodal plane  
MOM,AZM,PLG: Moment tensor component,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

2017/03/05 19:04:42.2  
 E OFF FUKUSHIMA PREF  
 Hypo.: 37°11.4'N 141°25.9'E 29km



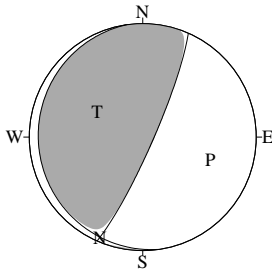
Cent.: 37°11.4'N 141°25.6'E 10km  $\Delta t = 0.3$   
 Mo:  $2.66 \times 10^{15}$  N·m Mw: 4.2 Mj: 4.6 (sec)  
 mrr: -2.27 mtt: 1.28 mff: 0.99  
 mrt: 0.06 mrf: 1.15 mtf: 1.37 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 66° 38° -61° P-axis: -2.67 73° 70°  
 NP2: 210° 57° -111° T-axis: 2.66 315° 10°  
 N-axis: 0.02 222° 18°  
 V.R.: 83%  $\epsilon$ : -0.01 N:14 COMP:17

2017/03/08 01:08:19.0  
 E OFF AOMORI PREF  
 Hypo.: 41°28.9'N 141°58.7'E 65km



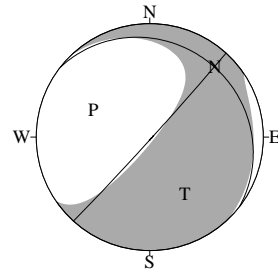
Cent.: 41°28.4'N 141°59.3'E 54km  $\Delta t = 4.7$   
 Mo:  $4.00 \times 10^{17}$  N·m Mw: 5.7 Mj: 5.2 (sec)  
 mrr: 3.00 mtt: -0.53 mff: -2.47  
 mrt: 1.19 mrf: 2.42 mtf: -1.09 ( $\times 10^{17}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 26° 66° 91° P-axis: -4.00 115° 21°  
 NP2: 203° 24° 88° T-axis: 4.00 298° 69°  
 N-axis: 0.00 205° 1°  
 V.R.: 80%  $\epsilon$ : 0.01 N:36 COMP:76

2017/03/08 04:51:51.6  
 FAR E OFF SANRIKU  
 Hypo.: 39°56.8'N 143°13.9'E 16km



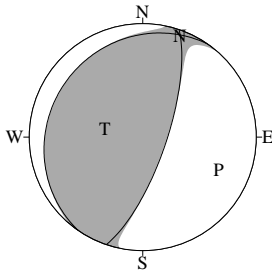
Cent.: 39°49.4'N 143°14.1'E 11km  $\Delta t = 0.8$   
 Mo:  $1.23 \times 10^{16}$  N·m Mw: 4.7 Mj: 4.6 (sec)  
 mrr: 0.33 mtt: 0.01 mff: -0.33  
 mrt: 0.49 mrf: 1.08 mtf: -0.04 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 23° 83° 94° P-axis: -1.22 109° 37°  
 NP2: 172° 9° 59° T-axis: 1.24 299° 52°  
 N-axis: -0.02 203° 4°  
 V.R.: 75%  $\epsilon$ : 0.01 N:15 COMP:25

2017/03/09 11:50:34.4  
 NEAR ETOROFU ISLAND  
 Hypo.: 44°57.9'N 148°12.0'E 164km



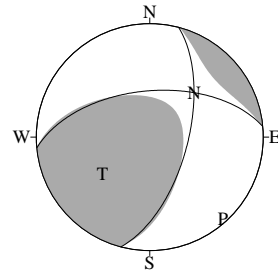
Cent.: 45° 0.2'N 148°12.4'E 164km  $\Delta t = 0.9$   
 Mo:  $3.77 \times 10^{16}$  N·m Mw: 5.0 Mj: 4.7 (sec)  
 mrr: -0.40 mtt: 1.33 mff: -0.93  
 mrt: -2.21 mrf: -2.86 mtf: -0.23 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 42° 89° -107° P-axis: -4.08 296° 44°  
 NP2: 308° 17° -5° T-axis: 3.47 148° 41°  
 N-axis: 0.61 43° 17°  
 V.R.: 80%  $\epsilon$ : -0.15 N:14 COMP:21

2017/03/10 14:24:49.5  
 FAR E OFF SANRIKU  
 Hypo.: 39°56.4'N 143°14.0'E 16km



Cent.: 39°56.4'N 143°14.5'E 16km  $\Delta t = 0.5$   
 Mo:  $5.84 \times 10^{15}$  N·m Mw: 4.4 Mj: 4.6 (sec)  
 mrr: 3.17 mtt: -0.48 mff: -2.69  
 mrt: 1.43 mrf: 4.61 mtf: -1.44 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 19° 73° 85° P-axis: -5.93 113° 28°  
 NP2: 215° 18° 105° T-axis: 5.76 282° 62°  
 N-axis: 0.17 20° 5°  
 V.R.: 74%  $\epsilon$ : -0.03 N:15 COMP:18

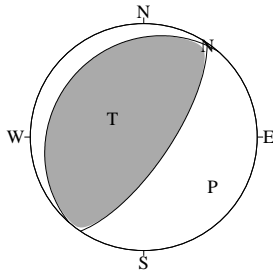
2017/03/11 00:53:52.9  
 NEAR TORISHIMA IS  
 Hypo.: 29°41.4'N 141°14.5'E 122km



Cent.: 29°34.5'N 141°13.9'E 143km  $\Delta t = 1.3$   
 Mo:  $2.42 \times 10^{16}$  N·m Mw: 4.9 Mj: 4.8 (sec)  
 mrr: 1.16 mtt: -0.87 mff: -0.29  
 mrt: -0.80 mrf: 1.23 mtf: -1.64 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 15° 63° 38° P-axis: -2.26 138° 4°  
 NP2: 265° 57° 146° T-axis: 2.59 232° 46°  
 N-axis: -0.33 45° 44°  
 V.R.: 83%  $\epsilon$ : 0.13 N:16 COMP:33

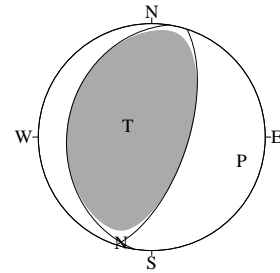
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2017/03/12 03:48:42.1  
NEAR TANEGASHIMA ISLAND  
Hypo.:30°59.3'N 130°25.1'E 136km



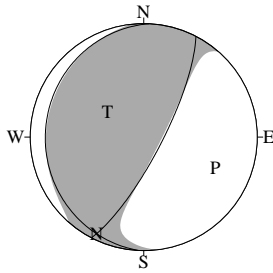
Cent.:30°56.1'N 130°24.3'E 131km  $\Delta t = 2.7$   
Mo:  $1.10 \times 10^{17}$  N·m Mw:5.3 Mj:5.1 (sec)  
mrr: 0.67 mtt:-0.25 mff:-0.42  
mrt: 0.46 mrf: 0.71 mtf:-0.32 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 34° 71° 88° P-axis:-1.10 126° 26°  
NP2:221° 19° 97° T-axis: 1.10 300° 64°  
N-axis: 0.00 35° 2°  
V.R.: 84%  $\epsilon$ : 0.01 N:25 COMP:42

2017/03/12 04:57:47.6  
E OFF FUKUSHIMA PREF  
Hypo.:37°30.7'N 141°32.5'E 46km



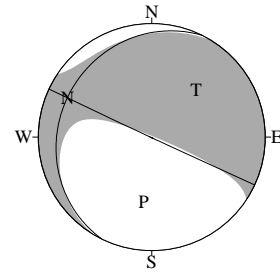
Cent.:37°39.7'N 141°32.0'E 55km  $\Delta t = 6.7$   
Mo:  $1.00 \times 10^{17}$  N·m Mw:5.3 Mj:5.4 (sec)  
mrr: 0.82 mtt:-0.07 mff:-0.75  
mrt: 0.23 mrf: 0.59 mtf:-0.17 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 18° 64° 94° P-axis:-1.00 105° 19°  
NP2:189° 26° 82° T-axis: 1.00 296° 71°  
N-axis: 0.00 196° 3°  
V.R.: 76%  $\epsilon$ : 0.03 N:26 COMP:52

2017/03/13 15:25:37.7  
FAR E OFF SANRIKU  
Hypo.:40°17.2'N 143°28.5'E 14km



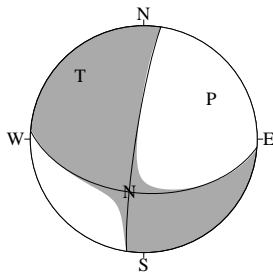
Cent.:40°14.6'N 143°28.5'E 14km  $\Delta t = 6.7$   
Mo:  $1.30 \times 10^{16}$  N·m Mw:4.7 Mj:4.7 (sec)  
mrr: 0.52 mtt: 0.06 mff:-0.58  
mrt: 0.55 mrf: 1.03 mtf:-0.22 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 27° 77° 96° P-axis:-1.35 113° 32°  
NP2:183° 14° 67° T-axis: 1.25 305° 58°  
N-axis: 0.10 206° 6°  
V.R.: 81%  $\epsilon$ :-0.08 N:34 COMP:52

2017/03/14 12:56:50.2  
HIDAKA MOUNTAINS REGION  
Hypo.:42°48.9'N 142°42.0'E 82km



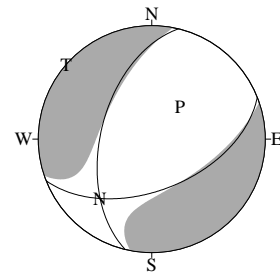
Cent.:42°43.9'N 142°42.0'E 83km  $\Delta t = 0.6$   
Mo:  $1.54 \times 10^{16}$  N·m Mw:4.7 Mj:4.7 (sec)  
mrr:-0.04 mtt:-0.45 mff: 0.49  
mrt: 1.35 mrf:-0.54 mtf:-0.22 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:115° 90° 109° P-axis:-1.63 187° 42°  
NP2:206° 19° 1° T-axis: 1.45 43° 42°  
N-axis: 0.18 295° 19°  
V.R.: 83%  $\epsilon$ :-0.11 N:30 COMP:50

2017/03/17 15:57:10.4  
NEAR TANEGASHIMA ISLAND  
Hypo.:30°24.0'N 130°34.4'E 60km



Cent.:30°18.2'N 130°35.2'E 63km  $\Delta t = 1.3$   
Mo:  $4.14 \times 10^{16}$  N·m Mw:5.0 Mj:4.9 (sec)  
mrr:-0.43 mtt: 0.98 mff:-0.55  
mrt:-0.08 mrf: 2.66 mtf: 3.07 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:189° 84° -140° P-axis:-4.26 59° 31°  
NP2: 94° 51° -7° T-axis: 4.02 315° 22°  
N-axis: 0.23 195° 50°  
V.R.: 84%  $\epsilon$ :-0.06 N:34 COMP:66

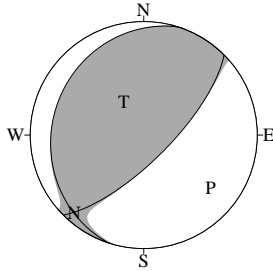
2017/03/18 10:33:28.9  
FAR E OFF MIYAGI PREF  
Hypo.:38°37.5'N 143°54.0'E 46km



Cent.:38°35.5'N 143°54.8'E 13km  $\Delta t = 0.8$   
Mo:  $2.80 \times 10^{16}$  N·m Mw:4.9 Mj:4.8 (sec)  
mrr:-2.00 mtt: 0.72 mff: 1.28  
mrt:-0.71 mrf: 0.62 mtf: 2.00 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 68° 53° -49° P-axis:-2.58 41° 59°  
NP2:194° 53° -131° T-axis: 3.02 311° 0°  
N-axis:-0.44 221° 31°  
V.R.: 79%  $\epsilon$ : 0.15 N:41 COMP:66

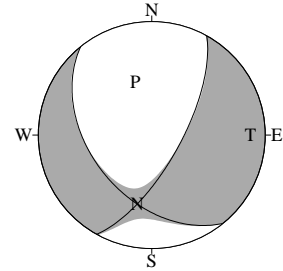
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2017/03/24 11:43:50.9  
 FAR E OFF KANTO  
 Hypo.:36°10.9'N 142°32.5'E 58km



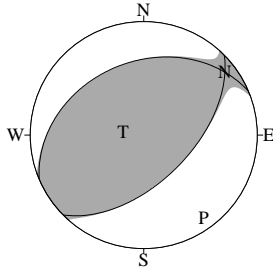
Cent.:36°10.9'N 142°32.0'E 10km  $\Delta t = 5.6$   
 Mo:  $1.26 \times 10^{16}$  N·m Mw:4.7 Mj:4.7 (sec)  
 mrr: 0.72 mtt:-0.17 mff:-0.55  
 mrt: 0.75 mrf: 0.67 mtf:-0.39 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 45° 72° 99° P-axis:-1.28 128° 26°  
 NP2:198° 20° 64° T-axis: 1.24 329° 62°  
 N-axis: 0.04 222° 9°  
 V.R.: 86%  $\epsilon$ :-0.03 N:42 COMP:55

2017/03/25 01:43:28.1  
 NW OFF OKINAWAJIMA IS  
 Hypo.:26°50.1'N 127°11.9'E 87km



Cent.:26°34.3'N 127°11.8'E 92km  $\Delta t = 1.4$   
 Mo:  $5.36 \times 10^{16}$  N·m Mw:5.1 Mj:5.1 (sec)  
 mrr:-2.66 mtt:-2.06 mff: 4.72  
 mrt:-2.73 mrf:-2.01 mtf:-0.65 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 29° 69° -49° P-axis:-5.48 343° 49°  
 NP2:141° 45°-150° T-axis: 5.24 90° 14°  
 N-axis: 0.24 192° 38°  
 V.R.: 72%  $\epsilon$ :-0.04 N:23 COMP:39

2017/03/28 07:31:23.2  
 SW OFF HOKKAIDO  
 Hypo.:42° 0.4'N 138°42.1'E 31km



Cent.:41°59.2'N 138°42.5'E 10km  $\Delta t = 5.9$   
 Mo:  $5.85 \times 10^{16}$  N·m Mw:5.1 Mj:5.0 (sec)  
 mrr: 5.19 mtt:-3.71 mff:-1.48  
 mrt: 1.11 mrf: 2.03 mtf:-2.74 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 45° 56° 77° P-axis:-5.93 144° 11°  
 NP2:247° 36° 108° T-axis: 5.77 279° 75°  
 N-axis: 0.17 52° 10°  
 V.R.: 82%  $\epsilon$ :-0.03 N:27 COMP:53

EQUAL AREA PROJECTON, LOWER HEMISPHERE.