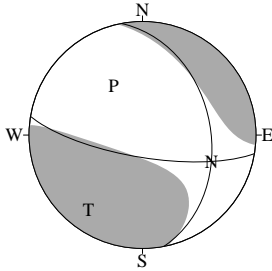


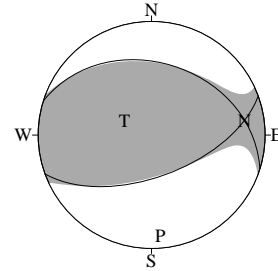
CMT SOLUTIONS FOR EARTHQUAKES IN MARCH, 2018

2018/03/01 22:42:26.7  
NEAR ISHIGAKIJIMA ISLAND  
Hypo.:24°14.9'N 123°49.2'E 15km



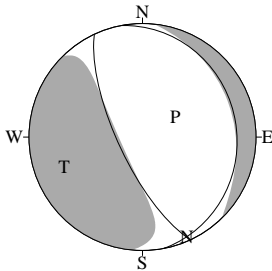
Cent.:24°14.4'N 123°49.6'E 15km  $\Delta t = 0.7$   
Mo:  $8.28 \times 10^{16}$  N·m Mw:5.2 Mj:5.6 (sec)  
mrr:-3.50 mtt: 2.52 mff: 0.98  
mrt:-5.32 mrf: 0.74 mtf:-5.68 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 99° 74° -127° P-axis:-7.39 330° 48°  
NP2:349° 40° -26° T-axis: 9.17 216° 20°  
N-axis:-1.77 111° 35°  
V.R.: 88%  $\epsilon$ : 0.19 N:7 COMP:12

2018/03/02 12:42:27.3  
NW OFF ISHIGAKIJIMA IS  
Hypo.:24°19.9'N 122°58.2'E 48km



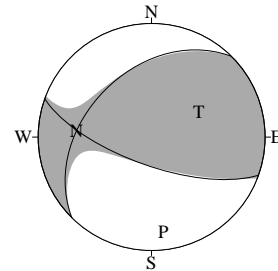
Cent.:24°12.6'N 122°58.1'E 40km  $\Delta t = 1.7$   
Mo:  $2.97 \times 10^{16}$  N·m Mw:4.9 Mj:4.9 (sec)  
mrr: 2.33 mtt:-2.83 mff: 0.50  
mrt: 1.11 mrf: 0.87 mtf:-0.12 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 70° 60° 69° P-axis:-3.08 175° 12°  
NP2:287° 36° 121° T-axis: 2.85 298° 68°  
N-axis: 0.23 81° 18°  
V.R.: 79%  $\epsilon$ :-0.08 N:5 COMP:9

2018/03/03 07:36: 7.4  
E OFF HACHIJOJIMA ISLAND  
Hypo.:33°32.6'N 140°51.2'E 83km



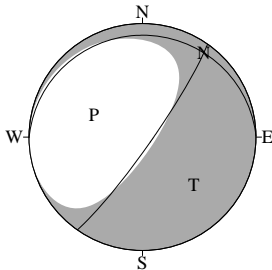
Cent.:33°32.6'N 140°51.3'E 83km  $\Delta t = 0.6$   
Mo:  $1.05 \times 10^{16}$  N·m Mw:4.6 Mj:4.6 (sec)  
mrr:-0.53 mtt:-0.06 mff: 0.59  
mrt:-0.37 mrf: 0.77 mtf:-0.26 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:349° 18° -76° P-axis:-0.98 58° 62°  
NP2:155° 72° -94° T-axis: 1.12 249° 27°  
N-axis:-0.14 156° 4°  
V.R.: 85%  $\epsilon$ : 0.13 N:27 COMP:35

2018/03/04 02:35:52.0  
TAIWAN REGION  
Hypo.:24° 7.9'N 121°39.7'E 14km



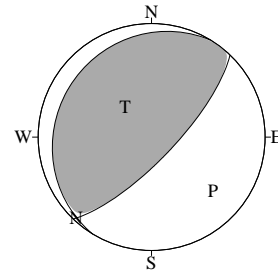
Cent.:24° 7.9'N 121°39.7'E 14km  $\Delta t = 0.5$   
Mo:  $7.14 \times 10^{15}$  N·m Mw:4.5 Mj:4.8 (sec)  
mrr: 3.70 mtt:-6.09 mff: 2.39  
mrt: 3.63 mrf:-2.50 mtf:-1.88 ( $\times 10^{15}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:110° 70° 127° P-axis:-7.40 173° 17°  
NP2:225° 41° 32° T-axis: 6.89 62° 51°  
N-axis: 0.51 275° 34°  
V.R.: 79%  $\epsilon$ :-0.07 N:8 COMP:9

2018/03/05 04:52:52.7  
NEAR ETOROFU ISLAND  
Hypo.:44°36.9'N 148°10.3'E 109km



Cent.:44°50.3'N 148° 9.8'E 124km  $\Delta t = 0.3$   
Mo:  $2.50 \times 10^{17}$  N·m Mw:5.5 Mj:5.4 (sec)  
mrr:-0.75 mtt: 0.74 mff: 0.01  
mrt:-1.24 mrf:-2.02 mtf: 0.09 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 35° 83° -99° P-axis:-2.70 295° 51°  
NP2:269° 11° -36° T-axis: 2.20 133° 38°  
N-axis: 0.40 36° 9°  
V.R.: 87%  $\epsilon$ :-0.16 N:19 COMP:31

2018/03/07 13:40:10.9  
KURILE ISLANDS REGION  
Hypo.:45°45.7'N 152°27.2'E 30km

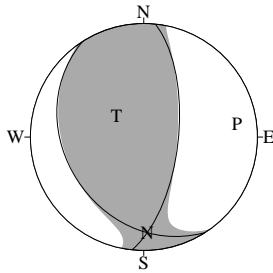


Cent.:45°27.0'N 152°31.8'E 57km  $\Delta t = 1.0$   
Mo:  $5.90 \times 10^{17}$  N·m Mw:5.8 Mj:5.9 (sec)  
mrr: 3.12 mtt:-1.15 mff:-1.97  
mrt: 3.52 mrf: 3.53 mtf:-1.51 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 44° 74° 94° P-axis:-5.90 131° 29°  
NP2:211° 16° 78° T-axis: 5.90 319° 61°  
N-axis: 0.00 223° 3°  
V.R.: 80%  $\epsilon$ : 0.01 N:15 COMP:25

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

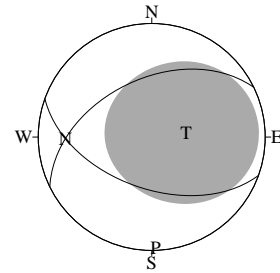
Hypo.:Location of hypocenter, Cent.:Location of centroid,  $\Delta t$ :Centroid time minus origin time  
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude  
mrr,mtt,mff,mrt,mrf,mtf:Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane  
MOM,AZM,PLG:Moment tensor component,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

2018/03/08 14:58:39.8  
NEAR TORISHIMA IS  
Hypo.:29°21.6'N 142°15.0'E 49km



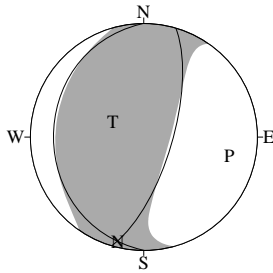
Cent.:29°24.7'N 142°16.4'E 12km  $\Delta t = 2.7$   
Mo:  $8.78 \times 10^{16} \text{N}\cdot\text{m}$  Mw:5.2 Mj:5.5 (sec)  
mrr: 6.12 mtt: 1.03 mff:-7.14  
mrt: 1.46 mrf: 5.20 mtf: 1.86 ( $\times 10^{16} \text{N}\cdot\text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1: 6° 65° 109° P-axis:-9.11 82° 18°  
NP2:147° 31° 56° T-axis: 8.45 308° 65°  
N-axis: 0.65 178° 17°  
V.R.: 79%  $\epsilon$ :-0.07 N:21 COMP:26

2018/03/09 18:15:50.7  
SHIMOKITA PENINSULA REG  
Hypo.:41°10.7'N 141°15.9'E 93km



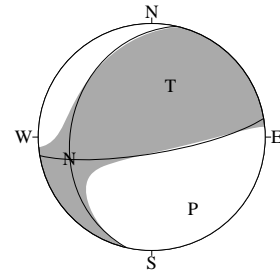
Cent.:41°10.8'N 141°15.9'E 93km  $\Delta t = 0.5$   
Mo:  $7.13 \times 10^{15} \text{N}\cdot\text{m}$  Mw:4.5 Mj:4.4 (sec)  
mrr: 6.58 mtt:-5.51 mff:-1.07  
mrt: 0.75 mrf:-4.49 mtf:-0.39 ( $\times 10^{15} \text{N}\cdot\text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1:110° 53° 122° P-axis:-5.56 178° 3°  
NP2:244° 48° 55° T-axis: 8.70 82° 65°  
N-axis:-3.14 269° 25°  
V.R.: 86%  $\epsilon$ : 0.36 N:10 COMP:11

2018/03/12 15:40: 4.6  
E OFF AOMORI PREF  
Hypo.:41° 8.9'N 142°37.1'E 36km



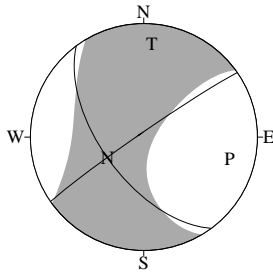
Cent.:41° 8.8'N 142°37.1'E 36km  $\Delta t = 0.8$   
Mo:  $3.26 \times 10^{16} \text{N}\cdot\text{m}$  Mw:4.9 Mj:4.9 (sec)  
mrr: 1.89 mtt: 0.45 mff:-2.33  
mrt: 0.74 mrf: 2.33 mtf:-0.48 ( $\times 10^{16} \text{N}\cdot\text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1: 16° 70° 96° P-axis:-3.51 102° 24°  
NP2:180° 21° 74° T-axis: 3.02 297° 65°  
N-axis: 0.49 194° 6°  
V.R.: 75%  $\epsilon$ :-0.14 N:34 COMP:44

2018/03/12 19:21:26.0  
NEAR OKINAWAJIMA ISLAND  
Hypo.:27°15.0'N 128°25.6'E 48km



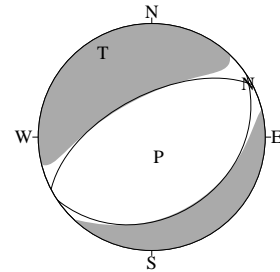
Cent.:27°10.0'N 128°25.8'E 48km  $\Delta t = 1.7$   
Mo:  $1.89 \times 10^{16} \text{N}\cdot\text{m}$  Mw:4.8 Mj:4.6 (sec)  
mrr: 0.64 mtt:-0.47 mff:-0.17  
mrt: 1.53 mrf: 0.19 mtf:-0.96 ( $\times 10^{16} \text{N}\cdot\text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1: 81° 78° 117° P-axis:-1.99 150° 28°  
NP2:193° 29° 25° T-axis: 1.80 20° 50°  
N-axis: 0.19 255° 26°  
V.R.: 76%  $\epsilon$ :-0.09 N:6 COMP:9

2018/03/13 15:46:30.3  
NEAR CHOSHI CITY  
Hypo.:35°43.8'N 140°40.4'E 51km



Cent.:35°47.1'N 140°40.8'E 45km  $\Delta t = 2.6$   
Mo:  $4.41 \times 10^{16} \text{N}\cdot\text{m}$  Mw:5.0 Mj:4.9 (sec)  
mrr: 0.69 mtt: 3.11 mff:-3.80  
mrt: 1.21 mrf: 2.29 mtf:-1.48 ( $\times 10^{16} \text{N}\cdot\text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1:235° 87° -150° P-axis:-5.17 104° 23°  
NP2:144° 60° -4° T-axis: 3.66 5° 18°  
N-axis: 1.51 241° 60°  
V.R.: 88%  $\epsilon$ :-0.29 N:19 COMP:27

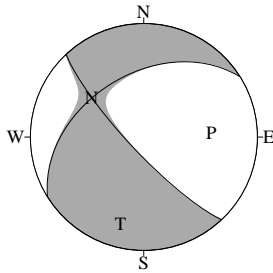
2018/03/19 03:00:13.2  
KURILE ISLANDS REGION  
Hypo.:45°23.3'N 150° 2.1'E 30km



Cent.:45°17.8'N 150° 5.3'E 100km  $\Delta t = 0.0$   
Mo:  $6.33 \times 10^{16} \text{N}\cdot\text{m}$  Mw:5.1 Mj:5.0 (sec)  
mrr:-5.25 mtt: 4.16 mff: 1.10  
mrt: 2.84 mrf: 1.32 mtf: 2.72 ( $\times 10^{16} \text{N}\cdot\text{m}$ )  
STR DIP SLIP MOM AZM PLG  
NP1: 56° 30° -95° P-axis:-6.09 161° 75°  
NP2:243° 60° -87° T-axis: 6.57 330° 15°  
N-axis:-0.48 61° 3°  
V.R.: 77%  $\epsilon$ : 0.07 N:15 COMP:20

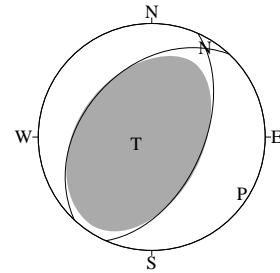
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2018/03/19 11:45:10.1  
E OFF BOSO PENINSULA  
Hypo.:35°19.2'N 141° 5.1'E 37km



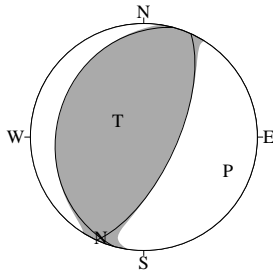
Cent.:35°14.5'N 141° 5.6'E 37km  $\Delta t = 0.2$   
Mo:  $4.87 \times 10^{16}$  N·m Mw:5.1 Mj:5.1 (sec)  
mrr:-1.25 mtt: 3.84 mff:-2.58  
mrt:-1.75 mrf: 2.93 mtf:-0.78 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:238° 44° -165° P-axis:-4.95 86° 40°  
NP2:137° 79° -47° T-axis: 4.79 195° 22°  
N-axis: 0.16 307° 42°  
V.R.: 80%  $\epsilon$ : -0.03 N:11 COMP:13

2018/03/20 18:22:56.7  
TAIWAN REGION  
Hypo.:23°19.3'N 120°32.2'E 9km



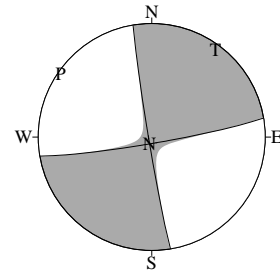
Cent.:23°23.3'N 120°32.5'E 15km  $\Delta t = 0.3$   
Mo:  $2.93 \times 10^{16}$  N·m Mw:4.9 Mj:5.0 (sec)  
mrr: 2.89 mtt:-0.96 mff:-1.93  
mrt:-0.09 mrf: 0.86 mtf:-1.18 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 24° 52° 78° P-axis:-2.80 122° 7°  
NP2:223° 39° 105° T-axis: 3.06 248° 78°  
N-axis:-0.26 31° 9°  
V.R.: 74%  $\epsilon$ : 0.09 N:9 COMP:10

2018/03/23 06:32:20.6  
KINKAZAN REGION  
Hypo.:38°52.8'N 142° 4.6'E 45km



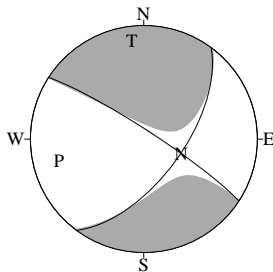
Cent.:38°54.9'N 142° 4.8'E 45km  $\Delta t = 1.3$   
Mo:  $3.51 \times 10^{16}$  N·m Mw:5.0 Mj:5.1 (sec)  
mrr: 2.52 mtt:-0.20 mff:-2.32  
mrt: 1.07 mrf: 2.13 mtf:-0.89 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 25° 66° 94° P-axis:-3.57 112° 21°  
NP2:195° 24° 81° T-axis: 3.46 302° 68°  
N-axis: 0.11 203° 4°  
V.R.: 85%  $\epsilon$ : -0.03 N:34 COMP:47

2018/03/24 04:02:46.8  
NW OFF SHAKOTAN PEN  
Hypo.:43° 2.5'N 139°32.0'E 216km



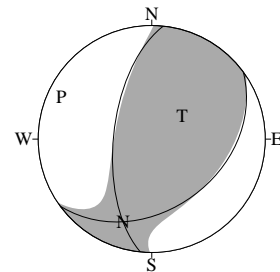
Cent.:43° 7.8'N 139°31.6'E 215km  $\Delta t = 1.1$   
Mo:  $3.97 \times 10^{16}$  N·m Mw:5.0 Mj:4.9 (sec)  
mrr: 0.11 mtt: 1.24 mff:-1.35  
mrt: 0.20 mrf:-0.28 mtf:-3.73 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 80° 85° 178° P-axis:-4.01 305° 2°  
NP2:171° 88° 5° T-axis: 3.92 36° 5°  
N-axis: 0.09 198° 85°  
V.R.: 85%  $\epsilon$ : -0.02 N:29 COMP:50

2018/03/24 05:28:38.8  
NEAR MIYAKOJIMA ISLAND  
Hypo.:23°53.9'N 125°18.2'E 63km



Cent.:23°53.8'N 125°18.3'E 20km  $\Delta t = 0.6$   
Mo:  $1.24 \times 10^{16}$  N·m Mw:4.7 Mj:4.7 (sec)  
mrr:-0.20 mtt: 1.13 mff:-0.93  
mrt: 0.43 mrf:-0.35 mtf: 0.37 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 36° 62° -173° P-axis:-1.19 256° 24°  
NP2:303° 83° -28° T-axis: 1.29 353° 14°  
N-axis:-0.11 111° 61°  
V.R.: 89%  $\epsilon$ : 0.08 N:7 COMP:9

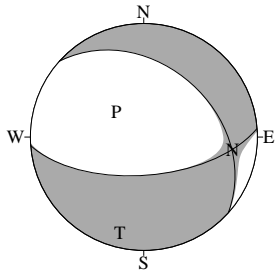
2018/03/25 23:37:22.9  
E OFF HACHIJOJIMA ISLAND  
Hypo.:32°38.5'N 140°53.2'E 41km



Cent.:32°30.1'N 140°54.7'E 51km  $\Delta t = 3.4$   
Mo:  $4.60 \times 10^{17}$  N·m Mw:5.7 Mj:5.8 (sec)  
mrr: 3.19 mtt:-0.07 mff:-3.12  
mrt: 0.45 mrf:-2.29 mtf:-2.35 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 54° 38° 131° P-axis:-4.80 295° 13°  
NP2:186° 62° 63° T-axis: 4.30 52° 62°  
N-axis: 0.50 199° 24°  
V.R.: 82%  $\epsilon$ : -0.11 N:31 COMP:72

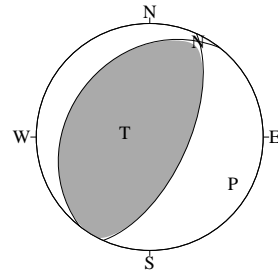
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2018/03/29 09:17:50.4  
 TAIWAN REGION  
 Hypo.:24° 0.6'N 121° 1.7'E 4km



Cent.:24° 0.0'N 121° 1.4'E 20km  $\Delta t = 0.7$   
 Mo:  $2.50 \times 10^{16}$  N·m Mw:4.9 Mj:4.7 (sec)  
 mrr:-1.87 mtt: 1.95 mff:-0.09  
 mrt:-1.25 mrf:-0.63 mtf:-0.80 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 86° 62° -116° P-axis:-2.53 313° 63°  
 NP2:312° 37° -51° T-axis: 2.47 194° 14°  
 N-axis: 0.06 98° 22°  
 V.R.: 81%  $\epsilon$ :-0.02 N:8 COMP:11

2018/03/29 23:05:58.4  
 S OFF URAKAWA  
 Hypo.:41°54.5'N 142°19.3'E 71km



Cent.:41°54.4'N 142°19.6'E 71km  $\Delta t = 0.4$   
 Mo:  $4.88 \times 10^{15}$  N·m Mw:4.4 Mj:4.2 (sec)  
 mrr: 3.99 mtt:-1.07 mff:-2.92  
 mrt: 0.91 mrf: 2.65 mtf:-1.79 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 24° 63° 83° P-axis:-4.87 119° 17°  
 NP2:218° 28° 102° T-axis: 4.90 279° 72°  
 N-axis:-0.04 27° 6°  
 V.R.: 84%  $\epsilon$ : 0.01 N:10 COMP:14

EQUAL AREA PROJECTON, LOWER HEMISPHERE.