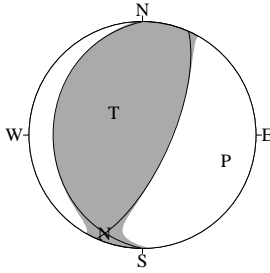


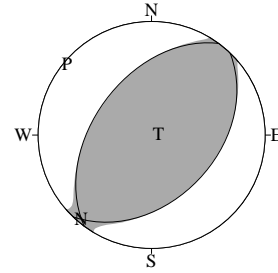
# CMT SOLUTIONS FOR EARTHQUAKES IN MARCH, 2022

2022/03/05 07:29:46.8  
FAR E OFF SANRIKU  
Hypo.:39°33.6'N 143°39.7'E 13km



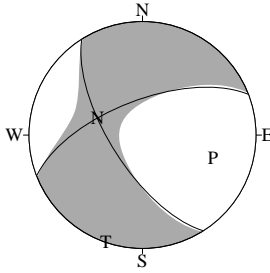
Cent.:39°31.5'N 143°40.3'E 14km  $\Delta t = 4.3$   
Mo:  $3.61 \times 10^{16}$  N·m Mw:5.0 Mj:5.2 (sec)  
mrr: 2.27 mtt: 0.10 mff:-2.37  
mrt: 1.25 mrf: 2.41 mtf:-0.58 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 24° 70° 99° P-axis: -3.68 107° 24°  
NP2: 180° 22° 68° T-axis: 3.55 308° 64°  
N-axis: 0.13 201° 8°  
V.R.: 79%  $\epsilon$ : -0.03 N:38 COMP:80

2022/03/08 01:58:50.3  
NOTO PENINSULA REGION  
Hypo.:37°31.4'N 137°14.2'E 14km



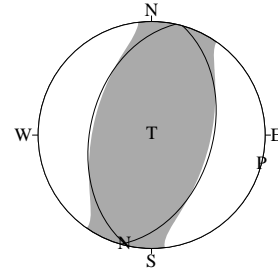
Cent.:37°39.1'N 137°13.9'E 13km  $\Delta t = 1.2$   
Mo:  $1.56 \times 10^{16}$  N·m Mw:4.7 Mj:4.8 (sec)  
mrr: 1.53 mtt:-0.63 mff:-0.91  
mrt:-0.02 mrf:-0.18 mtf:-0.80 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 44° 42° 95° P-axis: -1.58 310° 3°  
NP2: 216° 48° 85° T-axis: 1.55 77° 85°  
N-axis: 0.04 220° 4°  
V.R.: 80%  $\epsilon$ : -0.02 N:48 COMP:89

2022/03/09 21:22:12.3  
TAIWAN REGION  
Hypo.:23°14.2'N 121°22.7'E 39km



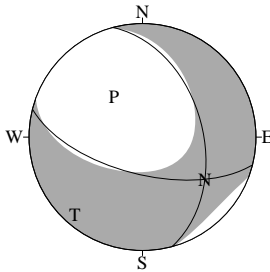
Cent.:23°16.4'N 121°22.5'E 31km  $\Delta t = 4.3$   
Mo:  $6.86 \times 10^{16}$  N·m Mw:5.2 Mj:5.5 (sec)  
mrr:-1.87 mtt: 5.39 mff:-3.52  
mrt: 1.02 mrf: 3.63 mtf:-3.28 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 249° 65° -155° P-axis: -7.25 108° 35°  
NP2: 148° 67° -27° T-axis: 6.48 199° 1°  
N-axis: 0.77 291° 55°  
V.R.: 86%  $\epsilon$ : -0.11 N:8 COMP:19

2022/03/16 23:36:32.6  
E OFF FUKUSHIMA PREF  
Hypo.:37°41.8'N 141°37.3'E 57km



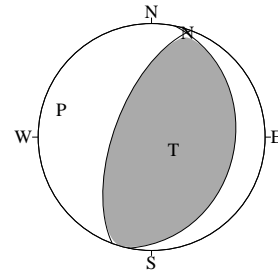
Cent.:37°39.1'N 141°40.2'E 51km  $\Delta t = 11.9$   
Mo:  $1.20 \times 10^{20}$  N·m Mw:7.3 Mj:7.4 (sec)  
mrr: 1.11 mtt: 0.10 mff:-1.21  
mrt: 0.03 mrf: 0.00 mtf:-0.35 ( $\times 10^{20}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 16° 45° 93° P-axis: -1.30 104° 0°  
NP2: 192° 45° 87° T-axis: 1.11 9° 88°  
N-axis: 0.19 194° 2°  
V.R.: 86%  $\epsilon$ : -0.14 N:31 COMP:80

2022/03/17 14:06:21.3  
NW OFF ISHIGAKIJIMA IS  
Hypo.:25°49.1'N 123°51.5'E 179km



Cent.:25°31.9'N 123°52.2'E 201km  $\Delta t = 2.1$   
Mo:  $5.62 \times 10^{16}$  N·m Mw:5.1 Mj:5.3 (sec)  
mrr:-3.56 mtt: 1.59 mff: 1.97  
mrt:-3.41 mrf:-1.64 mtf:-2.99 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 104° 63° -129° P-axis: -6.26 325° 54°  
NP2: 345° 46° -39° T-axis: 4.98 221° 10°  
N-axis: 1.28 124° 34°  
V.R.: 76%  $\epsilon$ : -0.20 N:23 COMP:39

2022/03/17 19:43:12.2  
E OFF FUKUSHIMA PREF  
Hypo.:37°46.2'N 141°42.8'E 57km

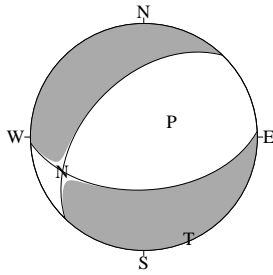


Cent.:37°46.2'N 141°43.3'E 57km  $\Delta t = 0.5$   
Mo:  $8.26 \times 10^{15}$  N·m Mw:4.5 Mj:4.7 (sec)  
mrr: 6.70 mtt:-0.52 mff:-6.17  
mrt:-1.91 mrf:-4.45 mtf:-1.77 ( $\times 10^{15}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 12° 27° 83° P-axis: -8.24 287° 18°  
NP2: 200° 63° 94° T-axis: 8.29 119° 72°  
N-axis: -0.05 19° 3°  
V.R.: 75%  $\epsilon$ : 0.01 N:15 COMP:34

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

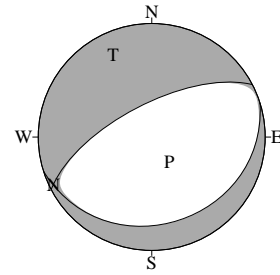
Hypo.:Location of hypocenter, Cent.:Location of centroid,  $\Delta t$ :Centroid time minus origin time  
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude  
mrr,mtt,mff,mrt,mrf,mtf:Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane  
MOM,AZM,PLG:Moment tensor component,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

2022/03/17 20:33:35.8  
NW OFF OKINAWAJIMA IS  
Hypo.:26°50.3'N 126°17.6'E 19km



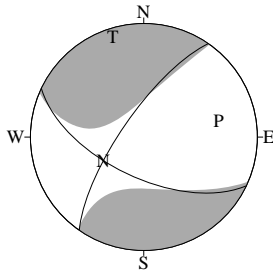
Cent.:26°37.6'N 126°17.4'E 10km  $\Delta t = 3.5$   
Mo:  $4.70 \times 10^{17}$  N·m Mw:5.7 Mj:5.9 (sec)  
mrr:-3.92 mtt: 3.77 mff: 0.16  
mrt:-0.96 mrf: 1.40 mtf: 2.07 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 87° 51° -60° P-axis:-4.70 61° 67°  
NP2:224° 48° -122° T-axis: 4.70 156° 2°  
N-axis:-0.10 247° 23°  
V.R.: 72%  $\epsilon$ : 0.01 N:11 COMP:22

2022/03/17 21:52:25.8  
NW OFF OKINAWAJIMA IS  
Hypo.:26°50.4'N 126°25.6'E 24km



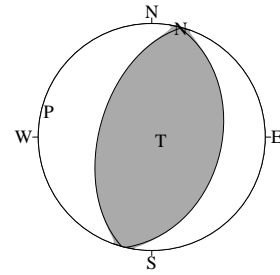
Cent.:27° 1.0'N 126°24.9'E 13km  $\Delta t = 0.7$   
Mo:  $3.21 \times 10^{16}$  N·m Mw:4.9 Mj:4.9 (sec)  
mrr:-2.36 mtt: 2.00 mff: 0.36  
mrt: 1.89 mrf: 1.09 mtf: 0.82 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 72° 24° -81° P-axis:-3.23 145° 68°  
NP2:242° 66° -94° T-axis: 3.19 335° 21°  
N-axis: 0.04 244° 4°  
V.R.: 72%  $\epsilon$ :-0.01 N:9 COMP:14

2022/03/18 23:25:16.3  
E OFF IWATE PREF  
Hypo.:39°59.4'N 142° 0.2'E 18km



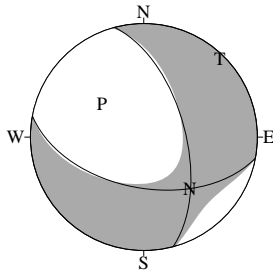
Cent.:40° 2.2'N 142° 0.2'E 10km  $\Delta t = 2.4$   
Mo:  $1.00 \times 10^{17}$  N·m Mw:5.3 Mj:5.6 (sec)  
mrr:-0.38 mtt: 0.96 mff:-0.58  
mrt: 0.12 mrf: 0.38 mtf: 0.47 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:215° 74° -150° P-axis:-0.90 78° 33°  
NP2:115° 61° -18° T-axis: 1.10 343° 8°  
N-axis:-0.20 240° 56°  
V.R.: 85%  $\epsilon$ : 0.18 N:15 COMP:35

2022/03/19 00:57:48.7  
E OFF FUKUSHIMA PREF  
Hypo.:37°44.1'N 141°42.8'E 58km



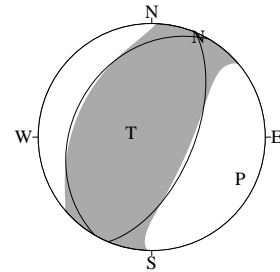
Cent.:37°44.2'N 141°43.5'E 58km  $\Delta t = 0.8$   
Mo:  $2.43 \times 10^{16}$  N·m Mw:4.9 Mj:5.0 (sec)  
mrr: 2.36 mtt:-0.13 mff:-2.23  
mrt:-0.18 mrf:-0.54 mtf:-0.58 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 14° 38° 89° P-axis:-2.45 284° 7°  
NP2:195° 52° 91° T-axis: 2.42 112° 83°  
N-axis: 0.02 15° 1°  
V.R.: 72%  $\epsilon$ :-0.01 N:27 COMP:47

2022/03/19 04:04:20.2  
NW OFF ISHIGAKIJIMA IS  
Hypo.:25°34.0'N 123°57.3'E 171km



Cent.:25°19.5'N 123°57.6'E 185km  $\Delta t = 3.1$   
Mo:  $9.10 \times 10^{17}$  N·m Mw:5.9 Mj:5.9 (sec)  
mrr:-5.40 mtt: 3.21 mff: 2.19  
mrt:-2.97 mrf:-4.47 mtf:-5.80 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:345° 60° -44° P-axis:-9.70 309° 51°  
NP2:101° 53° -141° T-axis: 8.60 44° 4°  
N-axis: 1.10 138° 39°  
V.R.: 78%  $\epsilon$ :-0.12 N:29 COMP:72

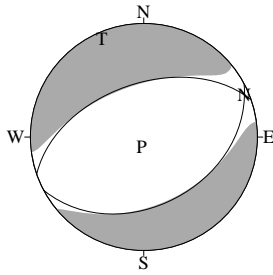
2022/03/23 02:41:38.9  
TAIWAN REGION  
Hypo.:23°23.9'N 121°29.5'E 44km



Cent.:23° 1.9'N 121°29.7'E 32km  $\Delta t = 5.3$   
Mo:  $1.23 \times 10^{19}$  N·m Mw:6.7 Mj:6.6 (sec)  
mrr: 0.95 mtt:-0.04 mff:-0.92  
mrt: 0.21 mrf: 0.56 mtf:-0.56 ( $\times 10^{19}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 23° 60° 86° P-axis:-1.35 115° 15°  
NP2:210° 31° 97° T-axis: 1.11 282° 75°  
N-axis: 0.24 25° 3°  
V.R.: 71%  $\epsilon$ :-0.17 N:12 COMP:32

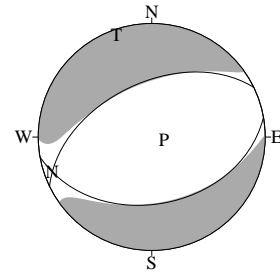
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2022/03/24 03:11:23.8  
NW OFF OKINAWAJIMA IS  
Hypo.:26°49.6'N 126°31.1'E 7km



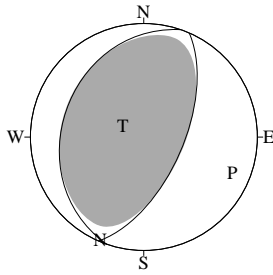
Cent.:26°35.7'N 126°30.9'E 10km  $\Delta t = 5.6$   
Mo:  $8.90 \times 10^{16}$  N·m Mw:5.2 Mj:5.1 (sec)  
mrr:-8.33 mtt: 7.50 mff: 0.83  
mrt: 1.93 mrf: 0.20 mtf:  $3.57 \times 10^{16}$  N·m  
STR DIP SLIP MOM AZM PLG  
NP1: 62° 39° -97° P-axis:-8.57 192° 83°  
NP2:251° 51° -85° T-axis: 9.24 337° 6°  
N-axis:-0.67 67° 4°  
V.R.: 79%  $\epsilon$ : 0.07 N:17 COMP:38

2022/03/24 07:53:26.5  
NW OFF OKINAWAJIMA IS  
Hypo.:26°48.6'N 126°19.4'E 16km



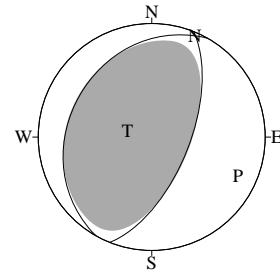
Cent.:26°39.0'N 126°19.8'E 10km  $\Delta t = 7.5$   
Mo:  $4.65 \times 10^{16}$  N·m Mw:5.0 Mj:5.4 (sec)  
mrr:-4.32 mtt: 4.26 mff: 0.06  
mrt: 0.59 mrf: 0.78 mtf:  $1.54 \times 10^{16}$  N·m  
STR DIP SLIP MOM AZM PLG  
NP1: 80° 41° -78° P-axis:-4.47 104° 81°  
NP2:244° 51° -100° T-axis: 4.84 341° 5°  
N-axis:-0.37 251° 8°  
V.R.: 76%  $\epsilon$ : 0.08 N:16 COMP:37

2022/03/25 12:08:16.2  
E OFF FUKUSHIMA PREF  
Hypo.:37°32.1'N 141°22.4'E 52km



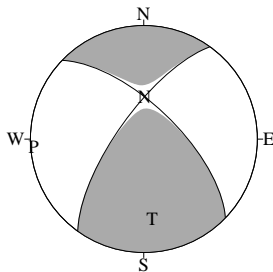
Cent.:37°33.1'N 141°22.3'E 57km  $\Delta t = 4.9$   
Mo:  $9.83 \times 10^{16}$  N·m Mw:5.3 Mj:5.2 (sec)  
mrr: 8.46 mtt:-1.44 mff:-7.01  
mrt: 2.35 mrf: 4.84 mtf:  $-2.52 \times 10^{16}$  N·m  
STR DIP SLIP MOM AZM PLG  
NP1: 24° 62° 92° P-axis:-9.58 112° 17°  
NP2:199° 28° 86° T-axis:10.07 299° 73°  
N-axis:-0.49 203° 2°  
V.R.: 85%  $\epsilon$ : 0.05 N:13 COMP:32

2022/03/26 00:20: 8.0  
E OFF FUKUSHIMA PREF  
Hypo.:37°31.6'N 141°24.6'E 51km



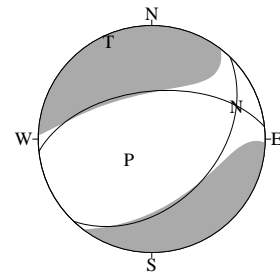
Cent.:37°29.4'N 141°24.7'E 59km  $\Delta t = 3.3$   
Mo:  $3.76 \times 10^{16}$  N·m Mw:5.0 Mj:4.7 (sec)  
mrr: 3.15 mtt:-0.71 mff:-2.44  
mrt: 0.70 mrf: 2.08 mtf:  $-1.09 \times 10^{16}$  N·m  
STR DIP SLIP MOM AZM PLG  
NP1: 22° 63° 86° P-axis:-3.66 114° 18°  
NP2:209° 27° 97° T-axis: 3.86 284° 72°  
N-axis:-0.20 23° 3°  
V.R.: 78%  $\epsilon$ : 0.05 N:15 COMP:40

2022/03/26 22:53:26.3  
TAIWAN REGION  
Hypo.:21° 9.6'N 122° 4.3'E 64km



Cent.:20°53.4'N 122° 4.3'E 29km  $\Delta t = 2.5$   
Mo:  $6.15 \times 10^{16}$  N·m Mw:5.1 Mj:5.3 (sec)  
mrr: 1.47 mtt: 4.50 mff:-5.96  
mrt:-2.74 mrf:-0.64 mtf:  $0.97 \times 10^{16}$  N·m  
STR DIP SLIP MOM AZM PLG  
NP1:216° 71° 155° P-axis:-6.08 266° 3°  
NP2:314° 67° 20° T-axis: 6.22 174° 30°  
N-axis:-0.15 1° 59°  
V.R.: 78%  $\epsilon$ : 0.02 N:8 COMP:16

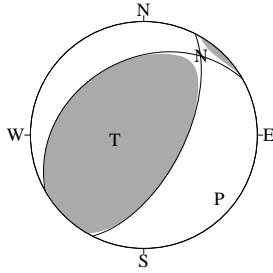
2022/03/27 00:38:52.7  
NW OFF OKINAWAJIMA IS  
Hypo.:26°47.8'N 126°22.6'E 27km



Cent.:26°33.2'N 126°22.2'E 10km  $\Delta t = 1.7$   
Mo:  $2.00 \times 10^{17}$  N·m Mw:5.5 Mj:5.6 (sec)  
mrr:-1.56 mtt: 1.64 mff:-0.07  
mrt: 0.61 mrf:-0.24 mtf:  $1.05 \times 10^{17}$  N·m  
STR DIP SLIP MOM AZM PLG  
NP1: 44° 42° -122° P-axis:-1.80 228° 68°  
NP2:264° 55° -64° T-axis: 2.20 336° 7°  
N-axis:-0.40 69° 21°  
V.R.: 87%  $\epsilon$ : 0.18 N:5 COMP:12

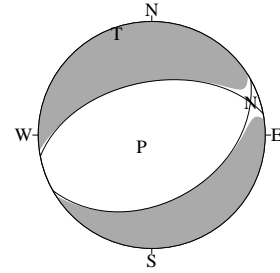
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2022/03/27 08:15:31.8  
HIDAKA MOUNTAINS REGION  
Hypo.:42°19.1'N 143° 3.6'E 53km



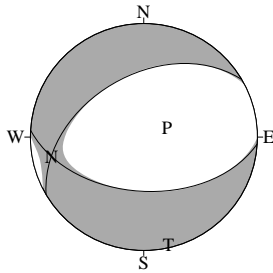
Cent.:42°12.3'N 143° 3.9'E 57km  $\Delta t = 1.5$   
Mo:  $4.78 \times 10^{16}$  N·m Mw:5.1 Mj:5.1 (sec)  
mrr: 3.92 mtt:-1.87 mff:-2.05  
mrt: 0.43 mrf: 2.50 mtf:-2.22 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 27° 61° 72° P-axis:-4.71 130° 14°  
NP2:240° 34° 119° T-axis: 4.84 261° 69°  
N-axis:-0.13 36° 15°  
V.R.: 77%  $\epsilon$ : 0.03 N:14 COMP:27

2022/03/30 02:36:44.1  
NW OFF OKINAWAJIMA IS  
Hypo.:26°48.1'N 126°27.6'E 19km



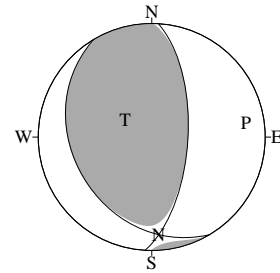
Cent.:26°37.7'N 126°27.6'E 10km  $\Delta t = 6.4$   
Mo:  $1.70 \times 10^{17}$  N·m Mw:5.4 Mj:5.5 (sec)  
mrr:-1.64 mtt: 1.51 mff: 0.13  
mrt: 0.40 mrf:-0.14 mtf: 0.58 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 61° 40°-104° P-axis:-1.70 221° 79°  
NP2:259° 51° -78° T-axis: 1.80 341° 6°  
N-axis: 0.00 72° 9°  
V.R.: 81%  $\epsilon$ : 0.02 N:18 COMP:44

2022/03/30 03:01:38.5  
NW OFF OKINAWAJIMA IS  
Hypo.:26°50.4'N 126°17.6'E 12km



Cent.:26°33.4'N 126°19.0'E 10km  $\Delta t = 6.7$   
Mo:  $2.41 \times 10^{16}$  N·m Mw:4.9 Mj:4.9 (sec)  
mrr:-2.20 mtt: 2.21 mff:-0.01  
mrt:-0.39 mrf: 0.67 mtf: 0.57 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 94° 51° -67° P-axis:-2.45 68° 72°  
NP2:239° 45°-116° T-axis: 2.36 167° 3°  
N-axis: 0.09 258° 18°  
V.R.: 67%  $\epsilon$ :-0.04 N:15 COMP:28

2022/03/31 20:52:13.6  
CENTRAL CHIBA PREF  
Hypo.:35°37.3'N 140° 1.9'E 73km



Cent.:35°45.8'N 140° 2.5'E 76km  $\Delta t = 1.4$   
Mo:  $1.77 \times 10^{16}$  N·m Mw:4.8 Mj:4.7 (sec)  
mrr: 1.36 mtt: 0.01 mff:-1.37  
mrt: 0.30 mrf: 1.03 mtf: 0.37 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 3° 64° 107° P-axis:-1.75 81° 17°  
NP2:149° 31° 60° T-axis: 1.79 304° 67°  
N-axis:-0.04 176° 15°  
V.R.: 76%  $\epsilon$ : 0.02 N:29 COMP:52

EQUAL AREA PROJECTON, LOWER HEMISPHERE.