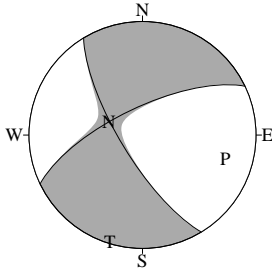


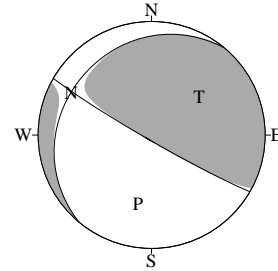
CMT SOLUTIONS FOR EARTHQUAKES IN FEBRUARY, 2021

2021/02/04 17:14: 3.7  
TAIWAN REGION  
Hypo.:21°42.4'N 121°54.4'E 17km



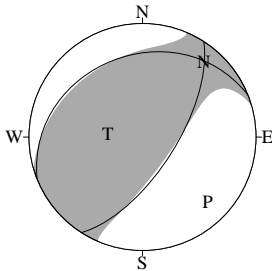
Cent.:21°25.6'N 121°53.9'E 14km  $\Delta t = 1.6$   
Mo:  $2.00 \times 10^{17}$  N·m Mw:5.5 Mj:5.4 (sec)  
mrr:-0.33 mtt: 1.70 mff:-1.36  
mrt: 0.14 mrf: 0.81 mtf:-1.00 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:245° 71° -163° P-axis:-2.00 106° 25°  
NP2:149° 74° -20° T-axis: 2.00 197° 2°  
N-axis: 0.00 292° 64°  
V.R.: 80%  $\epsilon$ : -0.02 N:11 COMP:25

2021/02/07 02:36: 2.6  
NW OFF ISHIGAKIJIMA IS  
Hypo.:24°35.6'N 122°33.2'E 112km



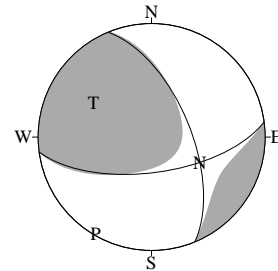
Cent.:24°38.8'N 122°33.3'E 111km  $\Delta t = 4.3$   
Mo:  $1.20 \times 10^{17}$  N·m Mw:5.3 Mj:5.2 (sec)  
mrr: 0.16 mtt:-0.46 mff: 0.31  
mrt: 0.93 mrf:-0.59 mtf:-0.17 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:120° 86° 111° P-axis:-1.20 191° 38°  
NP2:220° 21° 10° T-axis: 1.20 51° 45°  
N-axis: 0.00 298° 21°  
V.R.: 70%  $\epsilon$ : 0.03 N:9 COMP:20

2021/02/08 23:24: 0.8  
OFF NEMURO PENINSULA  
Hypo.:42°21.3'N 144°58.1'E 20km



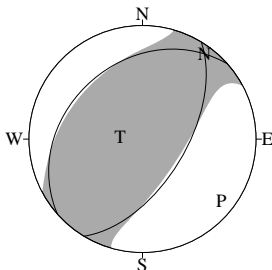
Cent.:42°13.5'N 144°58.1'E 34km  $\Delta t = 3.5$   
Mo:  $4.40 \times 10^{16}$  N·m Mw:5.0 Mj:5.1 (sec)  
mrr: 2.89 mtt:-1.73 mff:-1.16  
mrt: 1.29 mrf: 2.55 mtf:-2.26 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 33° 66° 74° P-axis:-4.68 135° 20°  
NP2:248° 28° 122° T-axis: 4.13 275° 65°  
N-axis: 0.56 39° 15°  
V.R.: 87%  $\epsilon$ : -0.12 N:18 COMP:30

2021/02/09 01:58: 2.9  
TAIWAN REGION  
Hypo.:24°17.9'N 122° 0.3'E 40km



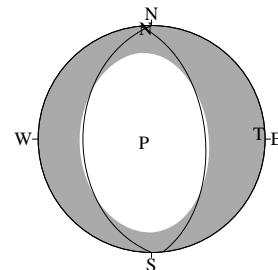
Cent.:24°18.3'N 122° 0.5'E 23km  $\Delta t = 5.8$   
Mo:  $8.18 \times 10^{16}$  N·m Mw:5.2 Mj:5.5 (sec)  
mrr: 2.97 mtt:-4.56 mff: 1.59  
mrt: 2.60 mrf: 3.98 mtf: 5.39 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 82° 64° 32° P-axis:-7.69 210° 2°  
NP2:338° 62° 151° T-axis: 8.67 301° 40°  
N-axis:-0.98 118° 50°  
V.R.: 81%  $\epsilon$ : 0.11 N:6 COMP:10

2021/02/09 12:39:26.0  
NEAR AMAMI-OSHIMA ISLAND  
Hypo.:29°58.7'N 131°14.2'E 24km



Cent.:29°42.3'N 131°13.9'E 31km  $\Delta t = 2.3$   
Mo:  $3.13 \times 10^{16}$  N·m Mw:4.9 Mj:4.7 (sec)  
mrr: 2.50 mtt:-0.88 mff:-1.62  
mrt: 0.61 mrf: 1.31 mtf:-1.76 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 31° 59° 81° P-axis:-3.38 128° 13°  
NP2:228° 32° 105° T-axis: 2.88 276° 74°  
N-axis: 0.50 36° 8°  
V.R.: 71%  $\epsilon$ : -0.15 N:14 COMP:20

2021/02/09 16:07:57.8  
NEAR TORISHIMA IS  
Hypo.:31°29.0'N 140°51.2'E 39km

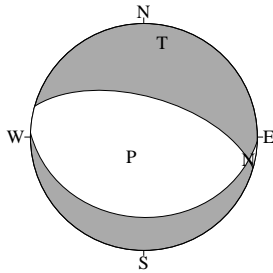


Cent.:31°22.4'N 140°50.8'E 65km  $\Delta t = 5.4$   
Mo:  $7.90 \times 10^{16}$  N·m Mw:5.2 Mj:5.3 (sec)  
mrr:-8.41 mtt: 1.38 mff: 7.03  
mrt: 0.58 mrf:-1.55 mtf:-0.26 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:354° 51° -94° P-axis:-8.59 241° 84°  
NP2:180° 39° -86° T-axis: 7.20 87° 6°  
N-axis: 1.40 357° 3°  
V.R.: 87%  $\epsilon$ : -0.16 N:35 COMP:71

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

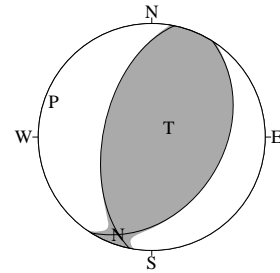
Hypo.:Location of hypocenter, Cent.:Location of centroid,  $\Delta t$ :Centroid time minus origin time  
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude  
mrr,mtt,mff,mrt,mrf,mtf: Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane  
MOM,AZM,PLG: Moment tensor component,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

2021/02/12 16:46:32.6  
 NW OFF ISHIGAKIJIMA IS  
 Hypo.:24°55.5'N 122°44.0'E 27km



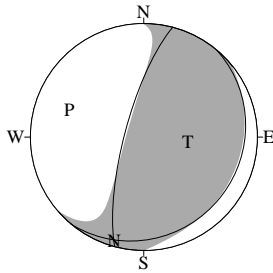
Cent.:24°58.3'N 122°44.4'E 22km  $\Delta t = 0.5$   
 Mo:  $1.94 \times 10^{16}$  N·m Mw:4.8 Mj:4.9 (sec)  
 mrr:-1.64 mtt: 1.62 mff: 0.02  
 mrt: 0.95 mrf:-0.38 mtf:-0.26 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 93° 30° -101° P-axis:-1.94 212° 73°  
 NP2:286° 61° -84° T-axis: 1.94 11° 16°  
 N-axis: 0.01 102° 6°  
 V.R.: 59%  $\epsilon$ : 0.00 N:6 COMP:11

2021/02/13 23:07:50.5  
 E OFF FUKUSHIMA PREF  
 Hypo.:37°43.7'N 141°41.9'E 55km



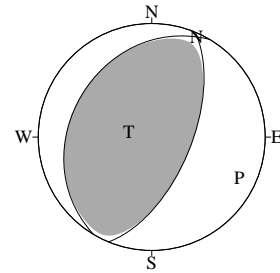
Cent.:37°27.3'N 141°42.6'E 49km  $\Delta t = 7.1$   
 Mo:  $5.14 \times 10^{19}$  N·m Mw:7.1 Mj:7.3 (sec)  
 mrr: 4.69 mtt:-0.47 mff:-4.22  
 mrt: 0.27 mrf:-1.77 mtf:-1.79 ( $\times 10^{19}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 32° 37° 107° P-axis:-5.18 290° 9°  
 NP2:191° 55° 78° T-axis: 5.10 61° 76°  
 N-axis: 0.08 199° 10°  
 V.R.: 84%  $\epsilon$ :-0.02 N:37 COMP:86

2021/02/14 03:25:28.4  
 E OFF IWATE PREF  
 Hypo.:39° 5.1'N 142°24.4'E 47km



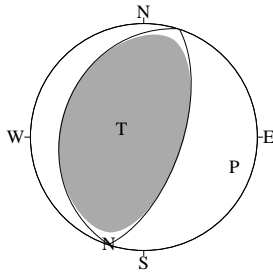
Cent.:39° 3.9'N 142°24.0'E 32km  $\Delta t = 4.4$   
 Mo:  $6.70 \times 10^{16}$  N·m Mw:5.2 Mj:5.1 (sec)  
 mrr: 2.74 mtt: 0.03 mff:-2.78  
 mrt:-1.44 mrf:-5.72 mtf:-1.67 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 40° 15° 115° P-axis:-7.04 290° 31°  
 NP2:195° 76° 84° T-axis: 6.35 96° 58°  
 N-axis: 0.69 196° 6°  
 V.R.: 55%  $\epsilon$ :-0.10 N:13 COMP:23

2021/02/14 16:31:50.2  
 E OFF FUKUSHIMA PREF  
 Hypo.:37°31.0'N 141°25.7'E 50km



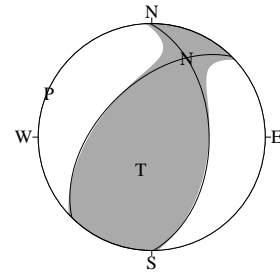
Cent.:37°28.9'N 141°25.8'E 58km  $\Delta t = 2.7$   
 Mo:  $8.02 \times 10^{16}$  N·m Mw:5.2 Mj:5.2 (sec)  
 mrr: 6.78 mtt:-1.44 mff:-5.34  
 mrt: 1.41 mrf: 4.14 mtf:-2.62 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 22° 62° 86° P-axis:-7.93 115° 16°  
 NP2:211° 29° 97° T-axis: 8.10 283° 73°  
 N-axis:-0.16 24° 3°  
 V.R.: 78%  $\epsilon$ : 0.02 N:10 COMP:27

2021/02/15 21:26: 4.7  
 E OFF FUKUSHIMA PREF  
 Hypo.:37°31.1'N 141°29.4'E 48km



Cent.:37°31.3'N 141°29.3'E 56km  $\Delta t = 4.0$   
 Mo:  $1.60 \times 10^{17}$  N·m Mw:5.4 Mj:5.5 (sec)  
 mrr: 1.37 mtt:-0.18 mff:-1.19  
 mrt: 0.30 mrf: 0.88 mtf:-0.36 ( $\times 10^{17}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 18° 62° 91° P-axis:-1.60 108° 17°  
 NP2:197° 28° 89° T-axis: 1.70 290° 73°  
 N-axis:-0.10 198° 1°  
 V.R.: 83%  $\epsilon$ : 0.04 N:13 COMP:31

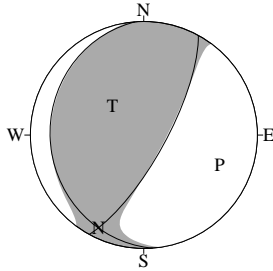
2021/02/18 03:38:49.8  
 TAIWAN REGION  
 Hypo.:22°26.2'N 121°26.9'E 19km



Cent.:22°15.1'N 121°26.5'E 18km  $\Delta t = 2.7$   
 Mo:  $5.52 \times 10^{16}$  N·m Mw:5.1 Mj:4.7 (sec)  
 mrr: 4.45 mtt: 0.28 mff:-4.72  
 mrt:-1.87 mrf: 0.37 mtf:-2.43 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1:359° 48° 56° P-axis:-5.73 293° 2°  
 NP2:225° 52° 122° T-axis: 5.32 198° 65°  
 N-axis: 0.41 24° 25°  
 V.R.: 77%  $\epsilon$ :-0.07 N:8 COMP:12

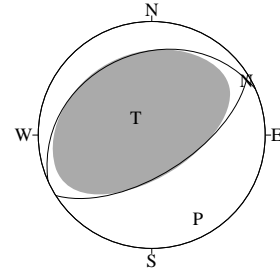
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2021/02/20 01:16:27.5  
 E OFF AOMORI PREF  
 Hypo.:40°42.3'N 142°49.4'E 34km



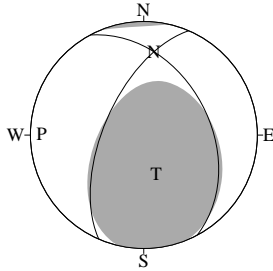
Cent.:40°38.7'N 142°49.6'E 33km  $\Delta t = 1.0$   
 Mo:  $3.93 \times 10^{16}$  N·m Mw:5.0 Mj:5.0 (sec)  
 mrr: 1.91 mtt: 0.25 mff:-2.16  
 mrt: 1.70 mrf: 2.83 mtf:-0.63 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 29° 74° 100° P-axis:-4.05 111° 29°  
 NP2:176° 19° 58° T-axis: 3.81 313° 59°  
 N-axis: 0.24 206° 10°  
 V.R.: 70%  $\epsilon$ :-0.06 N:33 COMP:59

2021/02/20 22:23:28.6  
 OFF NEMURO PENINSULA  
 Hypo.:43°16.2'N 146°45.2'E 68km



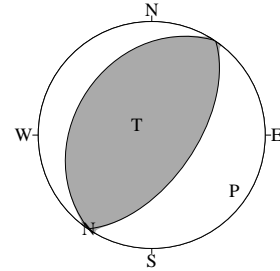
Cent.:43°10.8'N 146°45.9'E 65km  $\Delta t = 0.5$   
 Mo:  $3.32 \times 10^{16}$  N·m Mw:4.9 Mj:5.0 (sec)  
 mrr: 2.91 mtt:-2.12 mff:-0.79  
 mrt: 1.47 mrf: 1.09 mtf:-0.96 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 58° 62° 86° P-axis:-3.16 151° 17°  
 NP2:246° 29° 98° T-axis: 3.47 318° 73°  
 N-axis:-0.30 60° 4°  
 V.R.: 79%  $\epsilon$ : 0.09 N:18 COMP:28

2021/02/27 02:03:49.6  
 E OFF FUKUSHIMA PREF  
 Hypo.:37°45.5'N 141°42.9'E 55km



Cent.:37°45.6'N 141°43.3'E 55km  $\Delta t = 0.5$   
 Mo:  $8.92 \times 10^{15}$  N·m Mw:4.6 Mj:4.8 (sec)  
 mrr: 6.81 mtt: 0.72 mff:-7.53  
 mrt:-4.73 mrf:-2.71 mtf: 0.69 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1:332° 42° 47° P-axis:-8.03 271° 11°  
 NP2:203° 61° 121° T-axis: 9.82 162° 61°  
 N-axis:-1.78 7° 27°  
 V.R.: 74%  $\epsilon$ : 0.18 N:35 COMP:53

2021/02/28 23:30:13.7  
 E OFF TANEGASHIMA ISLAND  
 Hypo.:30° 3.0'N 131°19.3'E 27km



Cent.:29°58.3'N 131°20.7'E 29km  $\Delta t = 1.1$   
 Mo:  $1.89 \times 10^{16}$  N·m Mw:4.8 Mj:4.8 (sec)  
 mrr: 1.69 mtt:-0.52 mff:-1.17  
 mrt: 0.49 mrf: 0.70 mtf:-0.79 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 34° 58° 91° P-axis:-1.90 124° 13°  
 NP2:213° 32° 89° T-axis: 1.89 306° 77°  
 N-axis: 0.01 214° 1°  
 V.R.: 71%  $\epsilon$ : 0.00 N:10 COMP:14

EQUAL AREA PROJECTON, LOWER HEMISPHERE.