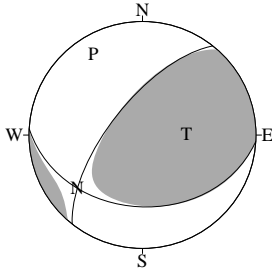


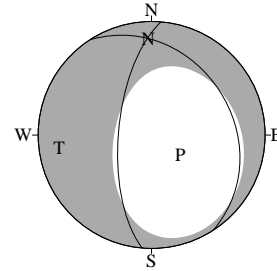
CMT SOLUTIONS FOR EARTHQUAKES IN OCTOBER, 2019

2019/10/01 02:56: 8.4  
EASTERN SEA OF JAPAN  
Hypo.:43°17.8'N 136°39.0'E 344km



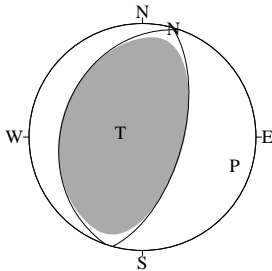
Cent.:43°28.3'N 136°37.0'E 330km  $\Delta t = 1.0$   
Mo:  $3.42 \times 10^{16}$  N·m Mw:5.0 Mj:4.8 (sec)  
mrr: 2.20 mtt:-2.32 mff: 0.12  
mrt:-0.67 mrf:-2.12 mtf:-1.28 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 93° 37° 139° P-axis:-3.31 329° 17°  
NP2:218° 67° 61° T-axis: 3.52 88° 58°  
N-axis:-0.22 231° 27°  
V.R.: 79%  $\epsilon$ : 0.06 N:28 COMP:55

2019/10/02 10:43:16.6  
FAR E OFF NORTH HONSHU  
Hypo.:39°10.8'N 144°24.9'E 54km



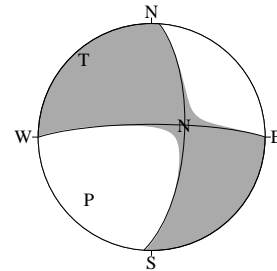
Cent.:39°10.8'N 144°25.5'E 10km  $\Delta t = 0.5$   
Mo:  $4.96 \times 10^{15}$  N·m Mw:4.4 Mj:4.8 (sec)  
mrr:-4.00 mtt: 0.93 mff: 3.07  
mrt: 1.36 mrf: 3.15 mtf:-0.97 ( $\times 10^{15}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:327° 29°-124° P-axis:-5.60 124° 65°  
NP2:185° 66° -73° T-axis: 4.33 262° 19°  
N-axis: 1.27 358° 16°  
V.R.: 84%  $\epsilon$ :-0.23 N:32 COMP:47

2019/10/03 12:55:41.5  
FAR E OFF SANRIKU  
Hypo.:39°56.5'N 143°34.6'E 14km



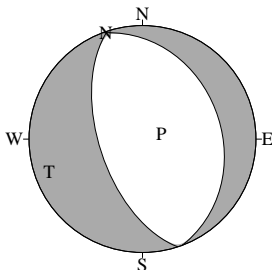
Cent.:39°56.5'N 143°36.5'E 14km  $\Delta t = 0.3$   
Mo:  $2.81 \times 10^{15}$  N·m Mw:4.2 Mj:4.7 (sec)  
mrr: 2.46 mtt:-0.32 mff:-2.13  
mrt: 0.35 mrf: 1.45 mtf:-0.62 ( $\times 10^{15}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 15° 61° 88° P-axis:-2.75 107° 16°  
NP2:199° 29° 93° T-axis: 2.88 281° 74°  
N-axis:-0.13 16° 1°  
V.R.: 62%  $\epsilon$ : 0.05 N:12 COMP:17

2019/10/06 05:18:18.4  
NW OFF OKINAWAJIMA IS  
Hypo.:28° 7.5'N 128° 4.9'E 12km



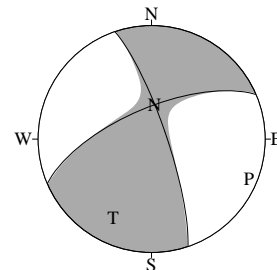
Cent.:28° 6.1'N 128° 5.0'E 10km  $\Delta t = 4.5$   
Mo:  $4.36 \times 10^{16}$  N·m Mw:5.0 Mj:5.1 (sec)  
mrr:-0.43 mtt: 0.46 mff:-0.03  
mrt: 1.71 mrf:-0.72 mtf: 3.92 ( $\times 10^{16}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 4° 66°-170° P-axis:-4.44 225° 23°  
NP2:270° 81° -24° T-axis: 4.27 319° 10°  
N-axis: 0.17 70° 65°  
V.R.: 77%  $\epsilon$ :-0.04 N:9 COMP:20

2019/10/07 08:02:30.7  
AKINADA SETONAIKAI  
Hypo.:33°50.1'N 132°21.4'E 50km



Cent.:33°50.2'N 132°21.3'E 50km  $\Delta t = 0.4$   
Mo:  $3.96 \times 10^{15}$  N·m Mw:4.3 Mj:4.3 (sec)  
mrr:-3.52 mtt: 0.39 mff: 3.13  
mrt:-0.53 mrf: 1.75 mtf:-1.09 ( $\times 10^{15}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:340° 31° -92° P-axis:-3.97 75° 76°  
NP2:162° 59° -89° T-axis: 3.95 251° 14°  
N-axis: 0.01 341° 1°  
V.R.: 73%  $\epsilon$ : 0.00 N:37 COMP:50

2019/10/12 18:21:53.6  
SE OFF BOSO PENINSULA  
Hypo.:34°40.4'N 140°38.9'E 75km

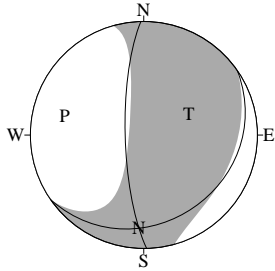


Cent.:34°48.6'N 140°38.7'E 63km  $\Delta t = 6.9$   
Mo:  $1.40 \times 10^{17}$  N·m Mw:5.4 Mj:5.4 (sec)  
mrr: 0.24 mtt: 0.73 mff:-0.97  
mrt:-0.35 mrf: 0.39 mtf:-0.94 ( $\times 10^{17}$  N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:247° 68° 168° P-axis:-1.40 112° 8°  
NP2:341° 79° 23° T-axis: 1.40 206° 24°  
N-axis: 0.10 5° 65°  
V.R.: 86%  $\epsilon$ :-0.04 N:44 COMP:91

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

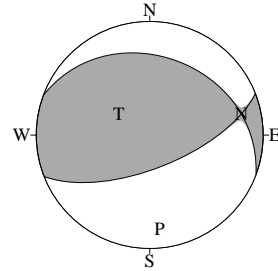
Hypo.:Location of hypocenter, Cent.:Location of centroid,  $\Delta t$ :Centroid time minus origin time  
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude  
mrr,mtt,mff,mrt,mrf,mtf:Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane  
MOM,AZM,PLG:Moment tensor component,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

2019/10/15 08:14:52.8  
 NEAR ETOROFU ISLAND  
 Hypo.:44°23.3'N 146°55.9'E 116km



Cent.:44°24.4'N 146°55.8'E 112km  $\Delta t = 1.7$   
 Mo:  $0.99 \times 10^{17}$  N·m Mw:5.3 Mj:5.4 (sec)  
 mrr: 0.33 mtt: 0.23 mff:-0.56  
 mrt:-0.02 mrf:-0.83 mtf:-0.33 ( $\times 10^{17}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 55° 23° 144° P-axis:-1.12 284° 29°  
 NP2:179° 77° 71° T-axis: 0.86 65° 54°  
 N-axis: 0.26 183° 19°  
 V.R.: 85%  $\epsilon$ :-0.23 N:14 COMP:32

2019/10/17 20:44:33.1  
 NW OFF ISHIGAKIJIMA IS  
 Hypo.:23°58.4'N 122°29.1'E 20km



Cent.:24° 6.6'N 122°29.1'E 29km  $\Delta t = 5.2$   
 Mo:  $1.20 \times 10^{17}$  N·m Mw:5.3 Mj:5.4 (sec)  
 mrr: 0.84 mtt:-0.99 mff: 0.15  
 mrt: 0.64 mrf: 0.43 mtf:-0.01 ( $\times 10^{17}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 69° 66° 70° P-axis:-1.20 174° 18°  
 NP2:291° 31° 128° T-axis: 1.20 305° 63°  
 N-axis: 0.00 77° 18°  
 V.R.: 67%  $\epsilon$ : 0.00 N:7 COMP:13

EQUAL AREA PROJECTON, LOWER HEMISPHERE.