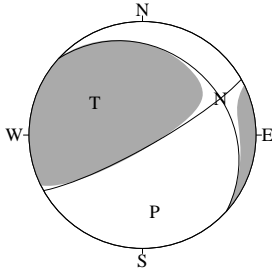


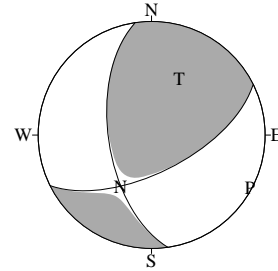
CMT SOLUTIONS FOR EARTHQUAKES IN JANUARY, 2022

2022/01/03 18:46:36.4  
TAIWAN REGION  
Hypo.:23°56.6'N 122°13.0'E 27km



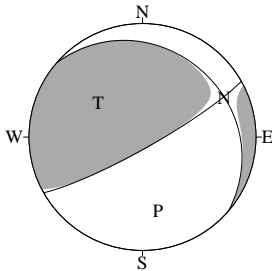
Cent.:24° 2.5'N 122°12.7'E 15km Δt=10.0  
Mo: 2.17x10<sup>18</sup>N·m Mw:6.2 Mj:6.3 (sec)  
mrr: 0.63 mtt:-1.20 mff: 0.57  
mrt: 1.53 mrf: 1.11 mtf: 0.28 (x10<sup>18</sup>N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 61° 81° 65° P-axis:-2.10 171° 32°  
NP2:312° 27° 160° T-axis: 2.24 304° 48°  
N-axis:-0.14 65° 25°  
V.R.: 68% ε: 0.06 N:10 COMP:27

2022/01/04 06:08:51.5  
NEAR CHICHIJIMA ISLAND  
Hypo.:27° 3.9'N 142° 6.8'E 77km



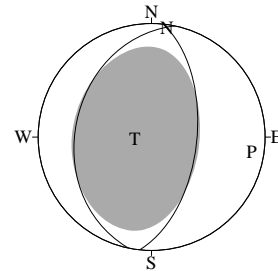
Cent.:27°12.9'N 142° 5.2'E 63km Δt= 5.5  
Mo: 6.20x10<sup>17</sup>N·m Mw:5.8 Mj:6.1 (sec)  
mrr: 2.88 mtt: 1.22 mff:-4.10  
mrt: 3.00 mrf:-1.18 mtf:-3.82 (x10<sup>17</sup>N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 64° 63° 144° P-axis:-6.10 118° 2°  
NP2:172° 59° 32° T-axis: 6.30 26° 44°  
N-axis:-0.20 211° 46°  
V.R.: 82% ε: 0.02 N:20 COMP:45

2022/01/04 08:17:29.0  
TAIWAN REGION  
Hypo.:23°59.9'N 122°10.9'E 33km



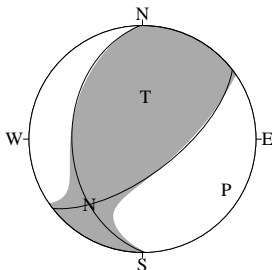
Cent.:24° 3.9'N 122°10.8'E 27km Δt= 0.1  
Mo: 4.51x10<sup>16</sup>N·m Mw:5.0 Mj:5.1 (sec)  
mrr: 1.20 mtt:-2.21 mff: 1.02  
mrt: 3.38 mrf: 2.25 mtf: 0.42 (x10<sup>16</sup>N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 61° 82° 69° P-axis:-4.44 168° 34°  
NP2:311° 22° 159° T-axis: 4.59 308° 49°  
N-axis:-0.16 64° 21°  
V.R.: 78% ε: 0.03 N:7 COMP:14

2022/01/16 17:15:41.3  
TAIWAN REGION  
Hypo.:24° 6.3'N 122°16.2'E 52km



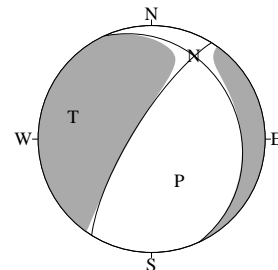
Cent.:24° 4.2'N 122°16.3'E 49km Δt= 1.7  
Mo: 8.42x10<sup>16</sup>N·m Mw:5.2 Mj:5.4 (sec)  
mrr: 8.25 mtt:-1.30 mff:-6.95  
mrt: 0.03 mrf: 3.47 mtf:-0.94 (x10<sup>16</sup>N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 6° 57° 87° P-axis:-7.84 98° 12°  
NP2:192° 33° 95° T-axis: 9.00 266° 78°  
N-axis:-1.17 8° 3°  
V.R.: 82% ε: 0.13 N:8 COMP:19

2022/01/21 08:59:37.9  
E OFF HOKKAIDO  
Hypo.:43°51.9'N 147°41.2'E 0km



Cent.:43°51.9'N 147°41.3'E 50km Δt=10.7  
Mo: 2.34x10<sup>16</sup>N·m Mw:4.8 Mj:4.8 (sec)  
mrr: 1.50 mtt: 0.09 mff:-1.59  
mrt: 1.25 mrf: 0.51 mtf:-1.13 (x10<sup>16</sup>N·m)  
STR DIP SLIP MOM AZM PLG  
NP1: 52° 65° 119° P-axis:-2.44 121° 15°  
NP2:179° 38° 43° T-axis: 2.24 4° 59°  
N-axis: 0.20 219° 27°  
V.R.: 71% ε:-0.08 N:16 COMP:28

2022/01/22 01:08:37.5  
HYUGANADA REGION  
Hypo.:32°42.9'N 132° 4.3'E 45km

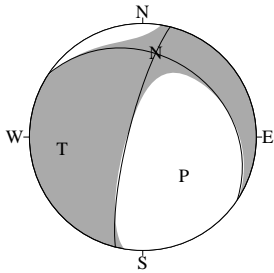


Cent.:32°45.4'N 132° 3.6'E 37km Δt= 5.4  
Mo: 5.01x10<sup>18</sup>N·m Mw:6.4 Mj:6.6 (sec)  
mrr:-2.06 mtt:-0.99 mff: 3.05  
mrt: 2.45 mrf: 3.42 mtf: 0.38 (x10<sup>18</sup>N·m)  
STR DIP SLIP MOM AZM PLG  
NP1:335° 23°-144° P-axis:-4.89 146° 54°  
NP2:212° 77° -71° T-axis: 5.13 286° 29°  
N-axis:-0.24 27° 19°  
V.R.: 83% ε: 0.05 N:27 COMP:74

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

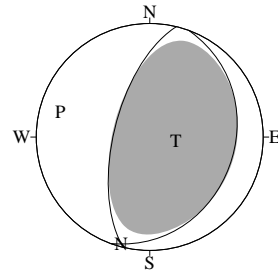
Hypo.:Location of hypocenter, Cent.:Location of centroid, Δt:Centroid time minus origin time  
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude  
mrr,mtt,mff,mrt,mrf,mtf:Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane  
MOM,AZM,PLG:Moment tensor component, azimuth and plunge of P-, T-, N-axis  
V.R.:Variance Reduction, ε:Non-double couple component ratio, N:Number of stations, COMP:Number of components

2022/01/22 05:31:50.9  
 HYUGANADA REGION  
 Hypo.:32°43.0'N 132° 3.5'E 38km



Cent.:32°38.5'N 132° 3.4'E 35km  $\Delta t = 1.0$   
 Mo:  $1.28 \times 10^{16}$  N·m Mw:4.7 Mj:4.7 (sec)  
 mrr:-0.43 mtt:-0.16 mff: 0.60  
 mrt: 0.43 mrf: 1.00 mtf:-0.43 ( $\times 10^{16}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1:304° 29° -158° P-axis:-1.34 133° 49°  
 NP2:194° 79° -63° T-axis: 1.22 262° 29°  
 N-axis: 0.12 9° 26°  
 V.R.: 82%  $\epsilon$ :-0.09 N:19 COMP:32

2022/01/29 06:00:32.6  
 E OFF IWATE PREF  
 Hypo.:39° 4.8'N 142°24.1'E 47km



Cent.:39° 3.9'N 142°24.1'E 47km  $\Delta t = 0.5$   
 Mo:  $8.51 \times 10^{15}$  N·m Mw:4.6 Mj:4.7 (sec)  
 mrr: 6.97 mtt:-1.07 mff:-5.90  
 mrt:-1.01 mrf:-5.16 mtf:-1.65 ( $\times 10^{15}$  N·m)  
 STR DIP SLIP MOM AZM PLG  
 NP1: 20° 26° 96° P-axis:-8.22 286° 19°  
 NP2:194° 64° 87° T-axis: 8.80 97° 71°  
 N-axis:-0.59 195° 3°  
 V.R.: 70%  $\epsilon$ : 0.07 N:14 COMP:25

EQUAL AREA PROJECTON, LOWER HEMISPHERE.