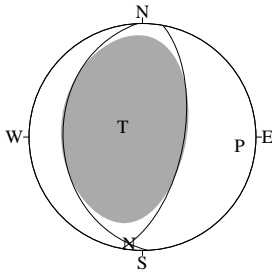


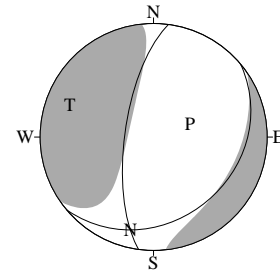
CMT SOLUTIONS FOR EARTHQUAKES IN FEBRUARY, 2019

2019/02/03 04:10:12.7
NEAR CHOSHI CITY
Hypo.:35°34.3'N 141° 2.7'E 37km



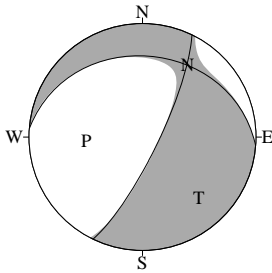
Cent.:35°38.4'N 141° 2.5'E 40km $\Delta t = 5.2$
Mo: 2.12×10^{16} N·m Mw:4.8 Mj:4.7 (sec)
mrr: 1.94 mtt:-0.22 mff:-1.72
mrt: 0.35 mrf: 1.02 mtf:-0.08 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 10° 60° 97° P-axis:-2.00 95° 15°
NP2:177° 31° 78° T-axis: 2.25 298° 74°
N-axis:-0.25 187° 6°
V.R.: 81% ϵ : 0.11 N:28 COMP:43

2019/02/06 01:59:50.4
SE OFF OSUMI PEN
Hypo.:30°58.8'N 131°46.1'E 49km



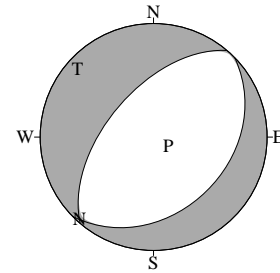
Cent.:30°55.9'N 131°46.1'E 22km $\Delta t = 0.7$
Mo: 9.17×10^{15} N·m Mw:4.6 Mj:4.2 (sec)
mrr:-4.96 mtt:-0.91 mff: 5.88
mrt: 0.73 mrf: 6.40 mtf: 4.01 ($\times 10^{15}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 50° 27° -51° P-axis:-8.10 70° 62°
NP2:188° 69° -108° T-axis:10.25 291° 22°
N-axis:-2.15 194° 17°
V.R.: 70% ϵ : 0.21 N:11 COMP:16

2019/02/09 11:24:20.8
NEAR KUNASHIRI ISLAND
Hypo.:43°49.0'N 145°43.4'E 110km



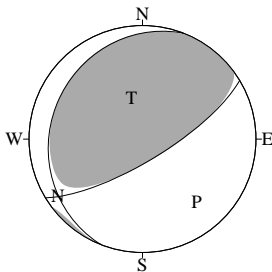
Cent.:43°46.7'N 145°43.4'E 110km $\Delta t = 0.7$
Mo: 2.73×10^{16} N·m Mw:4.9 Mj:4.8 (sec)
mrr:-0.98 mtt: 1.17 mff:-0.20
mrt:-0.70 mrf:-2.16 mtf: 1.07 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 26° 78° -117° P-axis:-2.78 266° 49°
NP2:274° 29° -24° T-axis: 2.68 137° 28°
N-axis: 0.10 32° 26°
V.R.: 88% ϵ :-0.04 N:22 COMP:39

2019/02/10 14:34:24.4
NEAR AMAMI-OSHIMA ISLAND
Hypo.:28°16.4'N 129°30.2'E 36km



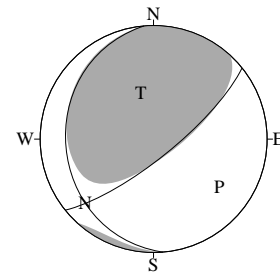
Cent.:28° 8.5'N 129°31.3'E 39km $\Delta t = 1.5$
Mo: 2.76×10^{16} N·m Mw:4.9 Mj:4.9 (sec)
mrr:-2.54 mtt: 1.18 mff: 1.36
mrt: 0.63 mrf: 0.87 mtf: 1.26 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 46° 34° -85° P-axis:-2.76 119° 78°
NP2:220° 56° -93° T-axis: 2.75 312° 11°
N-axis: 0.01 222° 3°
V.R.: 83% ϵ : 0.00 N:10 COMP:12

2019/02/13 18:25:27.8
KURILE ISLANDS REGION
Hypo.:45°26.2'N 151°41.1'E 30km



Cent.:45°27.3'N 151°44.2'E 34km $\Delta t = 0.9$
Mo: 4.00×10^{16} N·m Mw:5.0 Mj:5.2 (sec)
mrr: 2.10 mtt:-0.79 mff:-1.31
mrt: 3.00 mrf: 1.51 mtf:-1.18 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 59° 74° 102° P-axis:-3.93 139° 28°
NP2:201° 20° 54° T-axis: 4.07 345° 59°
N-axis:-0.14 236° 11°
V.R.: 70% ϵ : 0.03 N:10 COMP:23

2019/02/13 19:02:51.2
KURILE ISLANDS REGION
Hypo.:45°36.4'N 151°33.6'E 30km

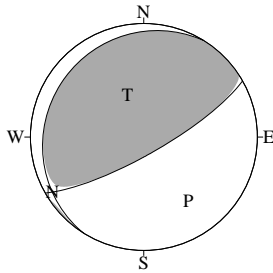


Cent.:45°40.1'N 151°36.6'E 36km $\Delta t = 1.1$
Mo: 6.14×10^{16} N·m Mw:5.1 Mj:5.3 (sec)
mrr: 2.87 mtt: 0.22 mff:-3.09
mrt: 4.51 mrf: 2.65 mtf:-1.30 ($\times 10^{16}$ N·m)
STR DIP SLIP MOM AZM PLG
NP1: 51° 76° 109° P-axis:-5.83 126° 29°
NP2:175° 23° 36° T-axis: 6.45 345° 55°
N-axis:-0.63 227° 19°
V.R.: 66% ϵ : 0.10 N:12 COMP:29

EQUAL AREA PROJECTON, LOWER HEMISPHERE.

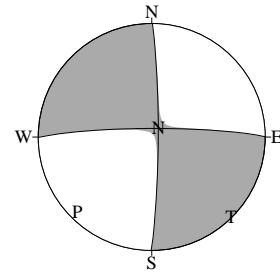
Hypo.:Location of hypocenter, Cent.:Location of centroid, Δt :Centroid time minus origin time
Mo:Total scalar moment, Mw:Moment Magnitude, Mj:JMA Magnitude
mrr,mtt,mff,mrt,mrf,mtf: Moment tensor components, STR,DIP,SLIP:Fault parameters of nodal plane
MOM,AZM,PLG: Moment tensor component, azimuth and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

2019/02/13 20:43:58.2
 KURILE ISLANDS REGION
 Hypo.:45°32.2'N 151°36.8'E 30km



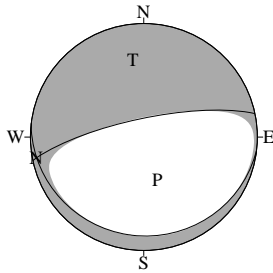
Cent.:45°32.5'N 151°39.0'E 32km $\Delta t = 1.0$
 Mo: 5.19×10^{16} N·m Mw:5.1 Mj:5.2 (sec)
 mrr:-2.21 mtt:-1.14 mff:-1.08
 mrt: 4.13 mrf: 2.18 mtf:-1.20 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 60° 77° 97° P-axis:-5.16 145° 32°
 NP2:212° 14° 62° T-axis: 5.22 339° 57°
 N-axis:-0.06 239° 7°
 V.R.: 70% ϵ : 0.01 N:10 COMP:23

2019/02/16 19:01:27.4
 NW OFF MIYAKOJIMA ISLAND
 Hypo.:25°26.6'N 124°49.7'E 12km



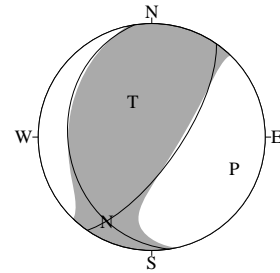
Cent.:25°24.7'N 124°49.6'E 15km $\Delta t = 3.8$
 Mo: 6.61×10^{16} N·m Mw:5.1 Mj:5.5 (sec)
 mrr:-0.05 mtt: 0.04 mff: 0.01
 mrt: 0.53 mrf:-0.71 mtf: 6.56 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 0° 85°-174° P-axis:-6.65 225° 8°
 NP2:270° 84° -5° T-axis: 6.58 135° 1°
 N-axis: 0.06 37° 82°
 V.R.: 85% ϵ :-0.01 N:8 COMP:14

2019/02/17 11:13:37.6
 NW OFF MIYAKOJIMA ISLAND
 Hypo.:25°17.6'N 124°33.0'E 0km



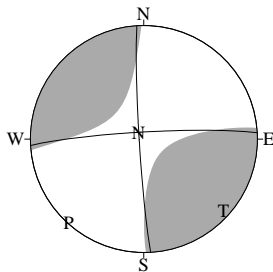
Cent.:25°17.6'N 124°33.7'E 10km $\Delta t = 0.7$
 Mo: 2.27×10^{16} N·m Mw:4.8 Mj:5.1 (sec)
 mrr:-1.06 mtt: 0.99 mff: 0.06
 mrt: 1.97 mrf: 0.47 mtf: 0.02 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 97° 14° -71° P-axis:-2.31 162° 58°
 NP2:258° 77° -95° T-axis: 2.22 352° 32°
 N-axis: 0.10 259° 4°
 V.R.: 80% ϵ :-0.04 N:9 COMP:10

2019/02/18 04:21:22.3
 FAR E OFF IBARAKI PREF
 Hypo.:36°18.5'N 142° 8.9'E 67km



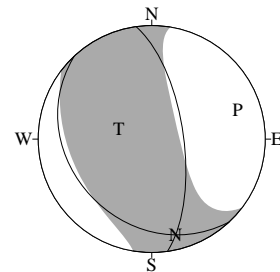
Cent.:36°12.5'N 142° 9.7'E 15km $\Delta t = 1.2$
 Mo: 1.77×10^{16} N·m Mw:4.8 Mj:5.0 (sec)
 mrr: 0.99 mtt: 0.27 mff:-1.27
 mrt: 0.79 mrf: 0.99 mtf:-0.47 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1: 35° 70° 108° P-axis:-1.89 111° 23°
 NP2:171° 27° 50° T-axis: 1.64 332° 61°
 N-axis: 0.25 208° 17°
 V.R.: 82% ϵ :-0.13 N:20 COMP:30

2019/02/18 16:32:17.6
 NW OFF MIYAKOJIMA ISLAND
 Hypo.:25°27.6'N 124°50.0'E 8km



Cent.:25°34.6'N 124°50.5'E 14km $\Delta t = 1.0$
 Mo: 2.06×10^{16} N·m Mw:4.8 Mj:4.8 (sec)
 mrr:-0.32 mtt:-0.08 mff: 0.40
 mrt:-0.15 mrf:-0.22 mtf: 2.03 ($\times 10^{16}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:267° 85° 3° P-axis:-1.89 222° 1°
 NP2:176° 87° 175° T-axis: 2.24 132° 6°
 N-axis:-0.35 323° 84°
 V.R.: 90% ϵ : 0.16 N:8 COMP:10

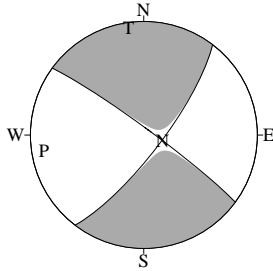
2019/02/21 21:22:40.4
 ISHIKARI DEPRESSION
 Hypo.:42°45.9'N 142° 0.2'E 33km



Cent.:42°47.7'N 142° 0.4'E 36km $\Delta t = 3.3$
 Mo: 3.00×10^{17} N·m Mw:5.6 Mj:5.8 (sec)
 mrr: 1.71 mtt: 0.48 mff:-2.19
 mrt:-0.27 mrf: 1.96 mtf: 1.27 ($\times 10^{17}$ N·m)
 STR DIP SLIP MOM AZM PLG
 NP1:352° 67° 105° P-axis:-3.40 71° 21°
 NP2:137° 27° 58° T-axis: 2.60 288° 65°
 N-axis: 0.90 166° 14°
 V.R.: 76% ϵ :-0.25 N:35 COMP:74

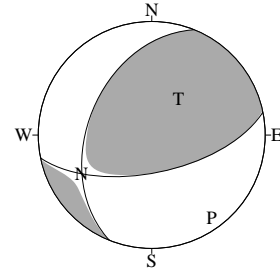
EQUAL AREA PROJECTON, LOWER HEMISPHERE.

2019/02/23 14:30:49.5
 W OFF AMAKUSA ISLAND
 Hypo.:32°31.6'N 129°56.1'E 14km



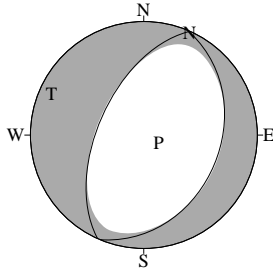
Cent.:32°31.6'N 129°56.2'E 14km $\Delta t = 0.4$
 Mo: $3.97 \times 10^{15} \text{N}\cdot\text{m}$ Mw:4.3 Mj:4.4 (sec)
 mrr:-0.21 mtt: 3.81 mff:-3.60
 mrt: 0.51 mrf:-0.75 mtf: 1.09 ($\times 10^{15} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1: 37° 77° -175° P-axis:-3.93 261° 12°
 NP2:306° 85° -13° T-axis: 4.00 352° 5°
 N-axis:-0.07 106° 76°
 V.R.: 73% ϵ : 0.02 N:10 COMP:12

2019/02/23 15:48:58.5
 E OFF FUKUSHIMA PREF
 Hypo.:37° 0.7'N 141°50.3'E 59km



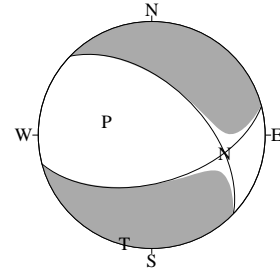
Cent.:37° 0.7'N 141°50.8'E 40km $\Delta t = 0.5$
 Mo: $7.04 \times 10^{15} \text{N}\cdot\text{m}$ Mw:4.5 Mj:4.5 (sec)
 mrr: 4.74 mtt:-3.07 mff:-1.67
 mrt: 3.74 mrf:-1.22 mtf:-4.10 ($\times 10^{15} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1: 78° 63° 125° P-axis:-6.94 144° 11°
 NP2:202° 43° 42° T-axis: 7.14 36° 57°
 N-axis:-0.21 241° 30°
 V.R.: 69% ϵ : 0.03 N:20 COMP:26

2019/02/24 09:33:18.4
 E OFF FUKUSHIMA PREF
 Hypo.:37°29.2'N 142° 0.0'E 34km



Cent.:37°29.2'N 142° 0.2'E 40km $\Delta t = 0.5$
 Mo: $8.25 \times 10^{15} \text{N}\cdot\text{m}$ Mw:4.5 Mj:4.8 (sec)
 mrr:-7.76 mtt: 1.52 mff: 6.24
 mrt: 1.41 mrf: 3.04 mtf: 2.50 ($\times 10^{15} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1: 23° 33° -91° P-axis:-8.47 116° 78°
 NP2:204° 57° -89° T-axis: 8.03 294° 12°
 N-axis: 0.44 24° 1°
 V.R.: 75% ϵ :-0.05 N:28 COMP:33

2019/02/26 02:13:51.5
 NEAR ETOROFU ISLAND
 Hypo.:44°38.2'N 148°16.2'E 100km



Cent.:44°43.0'N 148°16.3'E 97km $\Delta t = 1.0$
 Mo: $4.02 \times 10^{16} \text{N}\cdot\text{m}$ Mw:5.0 Mj:5.4 (sec)
 mrr:-2.74 mtt: 3.77 mff:-1.03
 mrt:-0.53 mrf:-1.66 mtf:-1.34 ($\times 10^{16} \text{N}\cdot\text{m}$)
 STR DIP SLIP MOM AZM PLG
 NP1: 75° 55° -133° P-axis:-3.92 286° 56°
 NP2:314° 53° -46° T-axis: 4.12 194° 1°
 N-axis:-0.20 104° 34°
 V.R.: 85% ϵ : 0.05 N:18 COMP:45

EQUAL AREA PROJECTON, LOWER HEMISPHERE.