Crustal Stress Map Data in Kanto Region, central Japan
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1. Introduction
Geological Survey of Japan, AIST is constructing a crustal stress map in Japanese islands with high spatial resolution based on focal mechanism solution of microearthquakes (Imanishi, 2014). This open-file report includes 10km-mesh map of the crustal stress in the Kanto region (Fig. 1) and focal mechanism solutions (Fig. 2) determined in Imanishi et al. (2019). For details of the data, please refer to Imanishi et al. (2019).

2. Data
2.1 10km-mesh map of the crustal stress (data/10km_mesh.dat)
The format of the data is as follows.

Lat  Lon  S_{Hmax}  var(S_{Hmax})  fptype  var(fptype)  N  R  G  B

Lat: Latitude of mesh
Lon: Longitude of mesh
S_{Hmax}: S_{Hmax} direction (°) (angle measured clockwise from the north)
var(S_{Hmax}): Variance of S_{Hmax} direction (degree)
fptype: The type of stress field based on Shearer et al. (2006). fptype ranges from -1 to 1.
var(fptype): Variance of fptype
N: The number of focal mechanisms included in the corresponding mesh
R: R (red) value of fptype color scale (RGB) (0–255)
G: G (green) value of fptype color scale (RGB) (0–255)
B: B (blue) value of fptype color scale (RGB) (0–255)
2.2 Focal mechanism (data/mec_imanishi_et_al_2019.dat)

The format of the data is as follows.

| YY | MM | DD | HH | MIN | SS | Lat | Lon | Dep | Mw | STR1 | DIP1 | SLP1 | STR2 | DIP2 | SLP2 | Pa | Pp | Ba | Bp | Ta | Tp | TYPE | R | G | B |
|----|----|----|----|-----|----|-----|-----|-----|----|------|------|------|------|------|-----|----|----|----|----|----|-----|----|----|----|

YY: Year
MM: Month
DD: Day
HH: Hour
MIN: Minute
SS: Second
Lat: Latitude
Lon: Longitude
Dep: Depth (km)
Mw: Moment magnitude
STR1: Strike of nodal plane 1 (°)
DIP1: Dip angle of nodal plane 1 (°)
SLP1: Slip angle of nodal plane 1 (°)
STR2: Strike of nodal plane 2 (°)
DIP2: Dip angle of nodal plane 2 (°)
SLP2: Strike of nodal plane 2 (°)
Pa: Azimuth of P-axis (°)
Pp: Plunge of P-axis (°)
Ba: Azimuth of B-axis (°)
Bp: Plunge of B-axis (°)
Ta: Azimuth of T-axis (°)
Tp: Plunge of T-axis (°)
TYPE: Faulting type defined by Flohlich (1992) (R: reverse-faulting, S: strike-slip faulting, N: normal faulting, O: other)
R: R (red) value of color scale (RGB) of triangle diagram by Flohlich (1992) (0—255)
G: G (green) value of color scale (RGB) of triangle diagram by Flohlich (1992) (0—255)
B: B (bule) value of color scale (RGB) of triangle diagram by Flohlich (1992) (0—255)

(Note) This data does not include the focal mechanism solutions of Imanishi et al.
(2012), Imanishi et al. (2013), and the Japan Meteorological Agency earthquake catalog, which were used in constructing the 10km-mesh map of the crustal stress. If you need these data, please contact the first author (imani@ni.aist.go.jp).

3. Disclaimer
The Geological Survey of Japan, AIST shall not be responsible or liable for any damages that may arise from the use of stress map data on this website.

4. Citation

References
Fig. 1 10-km mesh map of the crustal stress

Fig. 2 Focal mechanism solutions