

Tectonic Plate Shapefile metadata documentation

Date: October 18, 2021

HTDP version: 3.4.0

Geographic coordinate system: ITRF2014

Number of fields: 14

Number of records: 52

Field definitions:

Field name	Date type	Field description
Plate_num	Integer	Sequential number of tectonic plate
Plate_name	Text (20)	Name assigned to plate
Plate_abrv	Text (2)	2-character abbreviation of plate
Plate_type	Text (10)	Plate classification (primary, secondary, or tertiary)
Area_prent	Double	Percent of Earth surface covered by plate
HTDP_num	Integer	Region number used for plate in HTDP
HTDP_ver	Text (10)	HTDP version associated with plate definitions in this dataset
Ref_frame	Text (10)	Reference frame of rotation and translation rates
Rx_nrad_yr	Double	Rotation rate about x-axis in nanoradians per year, counterclockwise positive
Ry_nrad_yr	Double	Rotation rate about y-axis in nanoradians per year, counterclockwise positive
Rz_nrad_yr	Double	Rotation rate about z-axis in nanoradians per year, counterclockwise positive
dTx_mm_yr	Float	Translation rate along x-axis in millimeters per year
dTy_mm_yr	Float	Translation rate along y-axis in millimeters per year
dTz_mm_yr	Float	Translation rate along z-axis in millimeters per year

Source information: Tectonic plate names and polygons are based on those of Bird (2003), as provided by Ahlenius (2014).

References:

- Ahlenius H (2014) Shapefile of tectonic plate polygons created from vertices provided by Bird (2003), available under the Open Data Commons Attribution License (<http://opendatacommons.org/licenses/by/1.0/>) and downloaded in November 2020 from GitHub (<https://github.com/fraxen/tectonicplates>). Credit is also given to Nordpil (<http://nordpil.com>) for preparing and providing this dataset. All accessed January 8, 2021.
- Bird P (2003) An updated digital model of plate boundaries. *Geochem. Geophys. Geosyst.*, 4(3), 1027. Accessed January 8, 2021. <https://doi.org/10.1029/2001GC000252>.