

# Japan and East Asia Volcanos by Rock Type

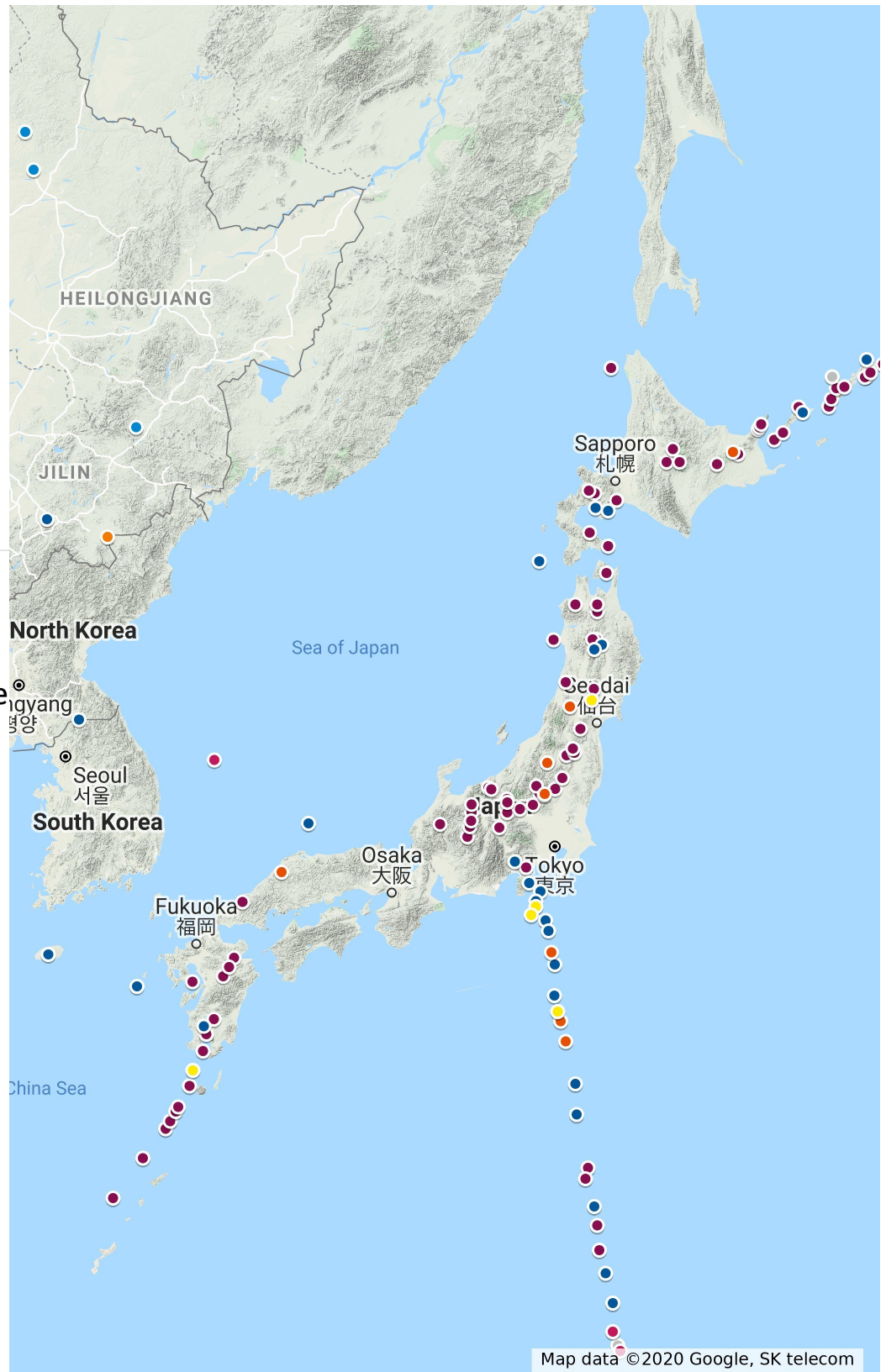
GVP\_Volcano\_List\_Holocene.csv

- Andesite
- Basalt
- Dacite
- Trachybasalt
- Rhyolite
- No Data (checked)
- Trachydacite
- Trachyandesite
- Foidite
- Phonolite
- Other / No value

Volcanoes classified by dominant rock type.

Display: All volcanoes from the last ~10,000 years (Holocene)

Source: Smithsonian Institution, National Museum of Natural History, Global Volcanism Program, Holocene Volcano List,



[https://volcano.si.edu/list\\_volcano\\_holocene.cfm](https://volcano.si.edu/list_volcano_holocene.cfm)

# *Plate Boundaries*

## *Japanese Islands and East Coast of Asia*



### GLOBAL TECTONIC ACTIVITY MAP OF THE EARTH Tectonism and Volcanism of the Last One Million Years

#### DTAM - 1



NASA/Goddard Space Flight Center  
Greenbelt, Maryland 20771

Robinson Projection

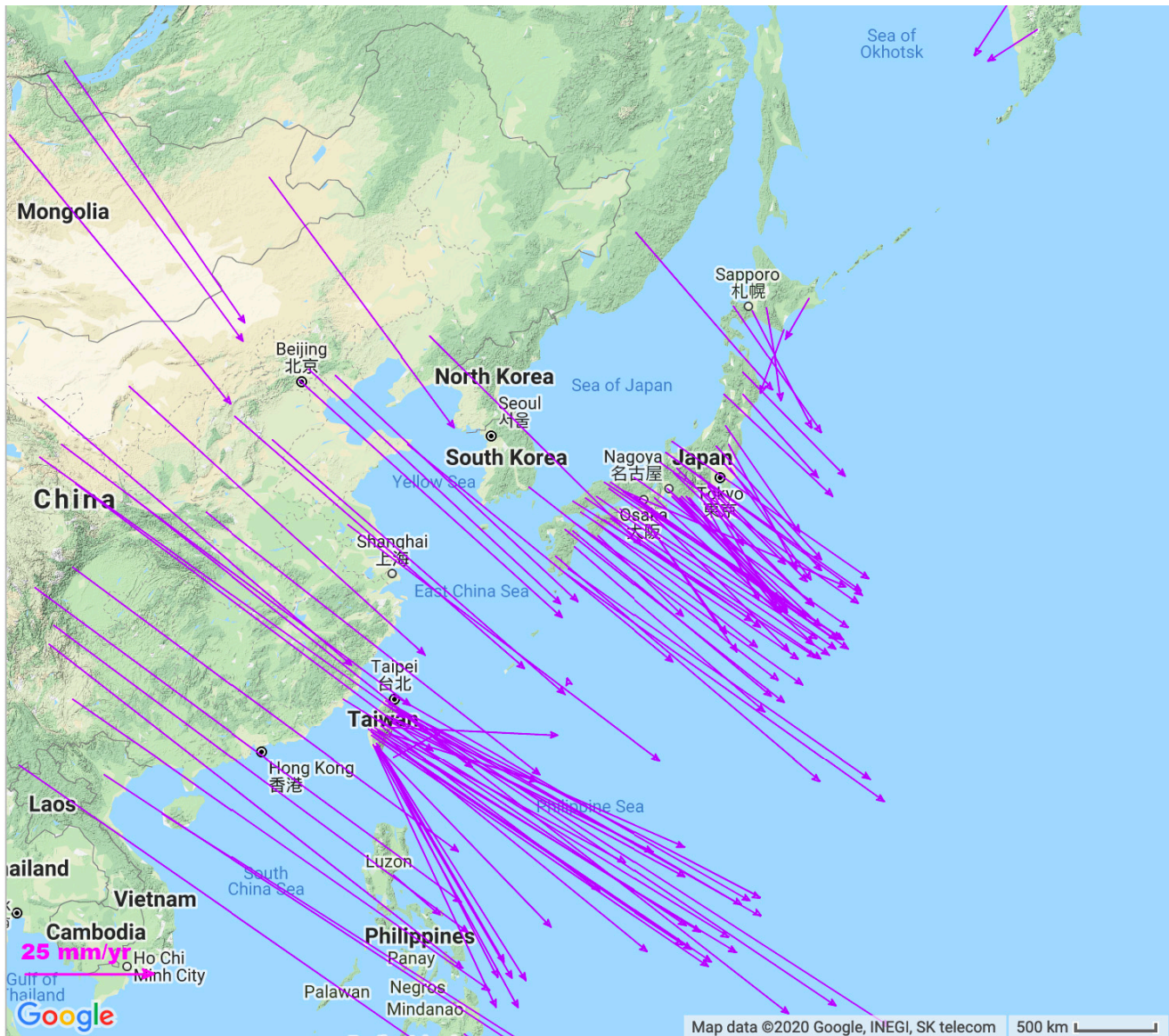
- Mainly oceanic crust
- Mainly continental crust

October 2002

#### LEGEND

- Actively-spreading ridges and transform faults
- Total spreading rate, cm/year
- Major active fault or fault zone; dashed where nature, location, or activity uncertain
- Normal fault or rift; hachures on downthrown side
- Reverse fault (overthrust, subduction zones); generalized; bars on upthrown side
- Volcanic centers active within the last one million years; generalized. Minor basaltic centers and seamounts omitted.

# GPS Motion Japanese Islands and East Coast of Asia



Display: Motion relative to Philippine Sea, GEM GSRM

Digital map accessed: Data Source: UNAVCO: GPS Velocity Viewer  
<https://www.unavco.org/software/visualization/GPS-Velocity-Viewer/GPS-Velocity-Viewer.html>



# Japan area earthquakes by depth

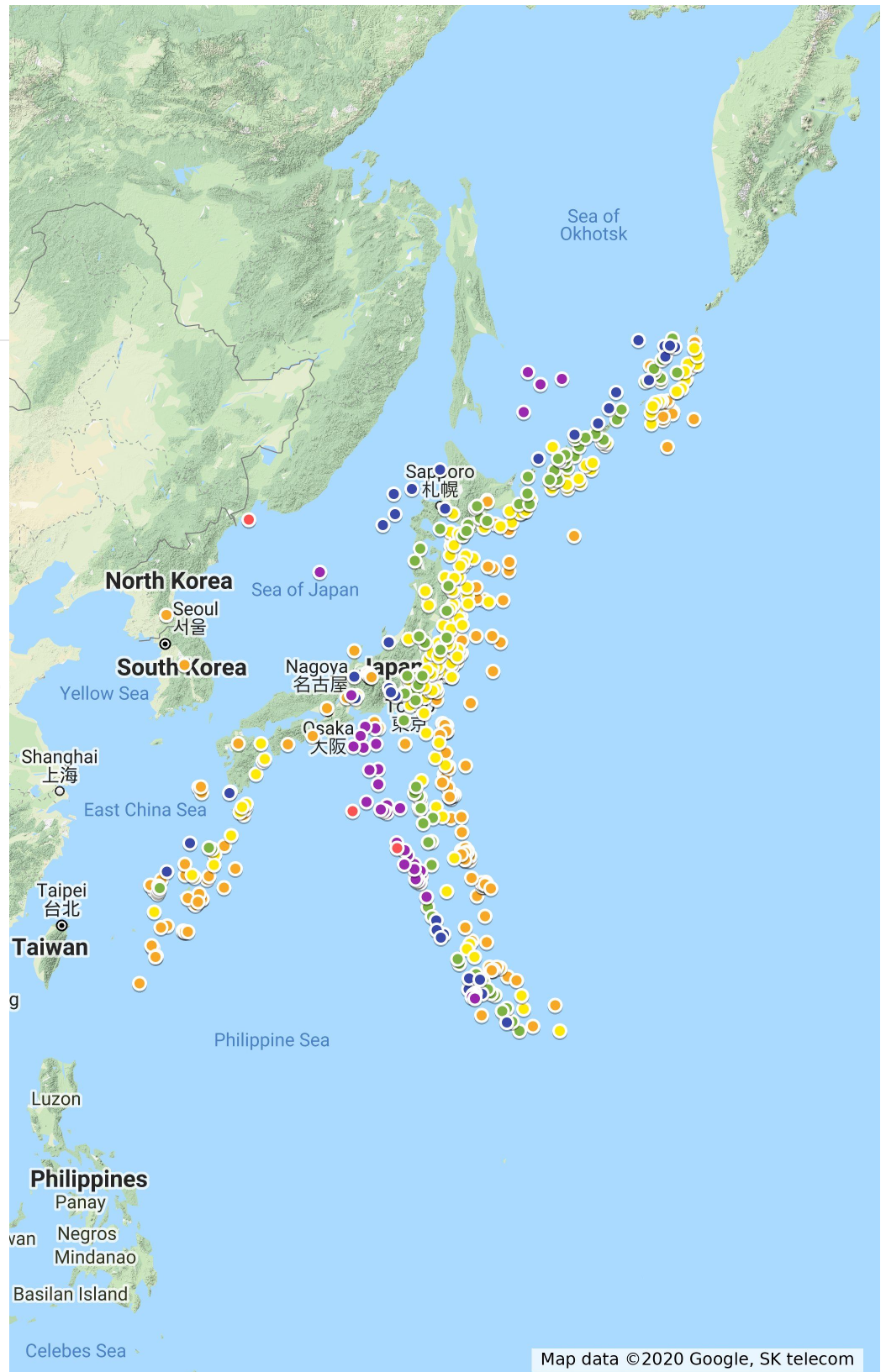
Depth (in km)

- 0 - 33
- 33 - 70
- 70 - 150
- 150 - 300
- 300 - 500
- 500 - 800

Earthquakes classified by depth.

Display: All earthquakes magnitudes >2.5; January 27, 2020 to July 27, 2020

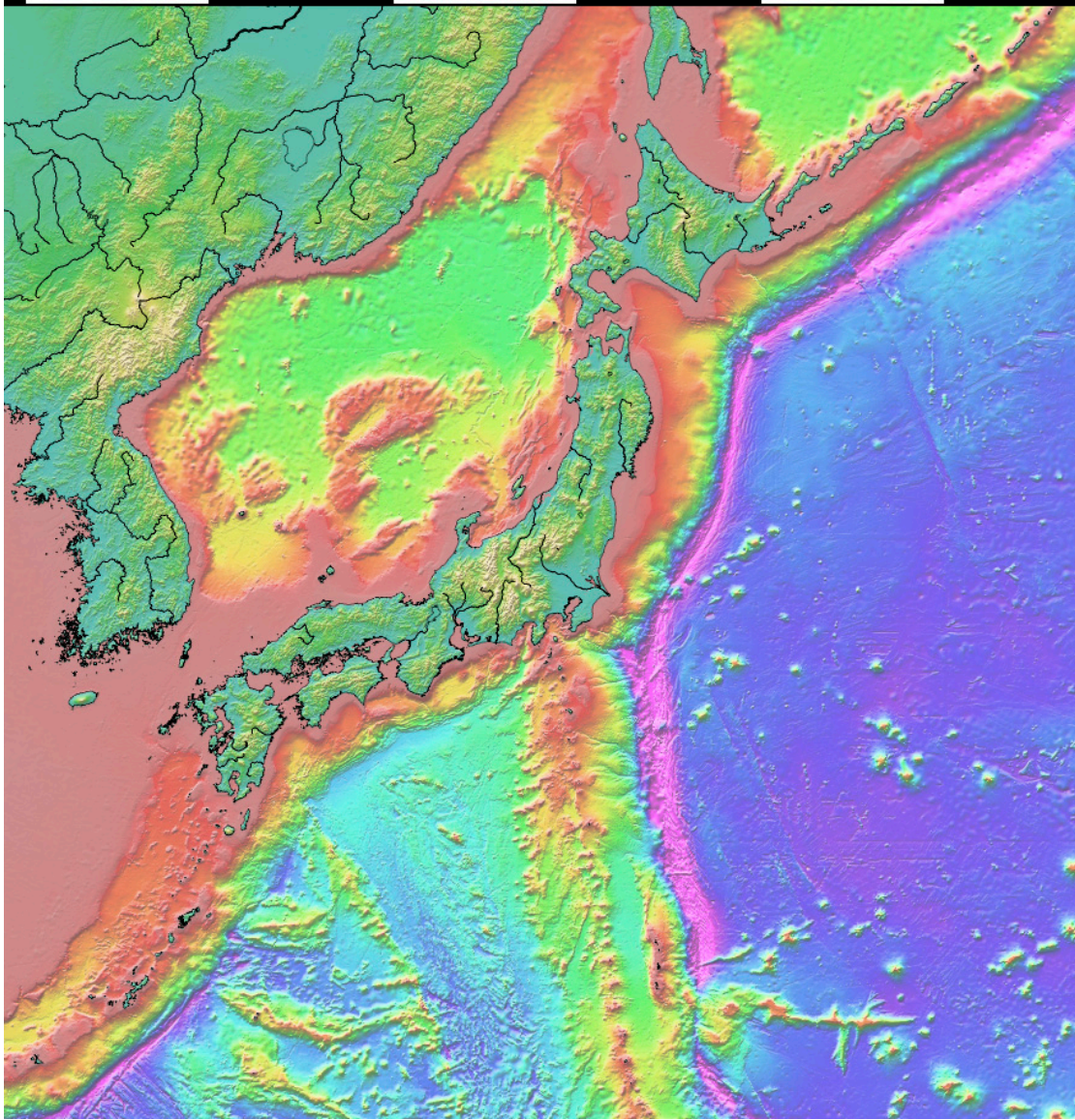
Source: United States Geological Survey, Earthquake Catalog,



<https://earthquake.usgs.gov/earthquakes>

# ***Topography***

## ***Japanese Islands and East Coast of Asia***



Display: Surface topography including continents and seafloor

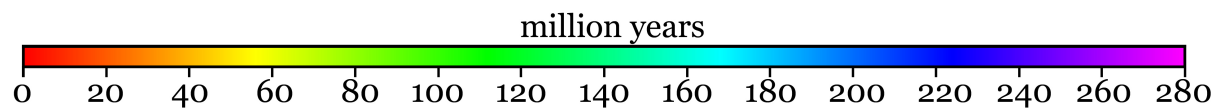
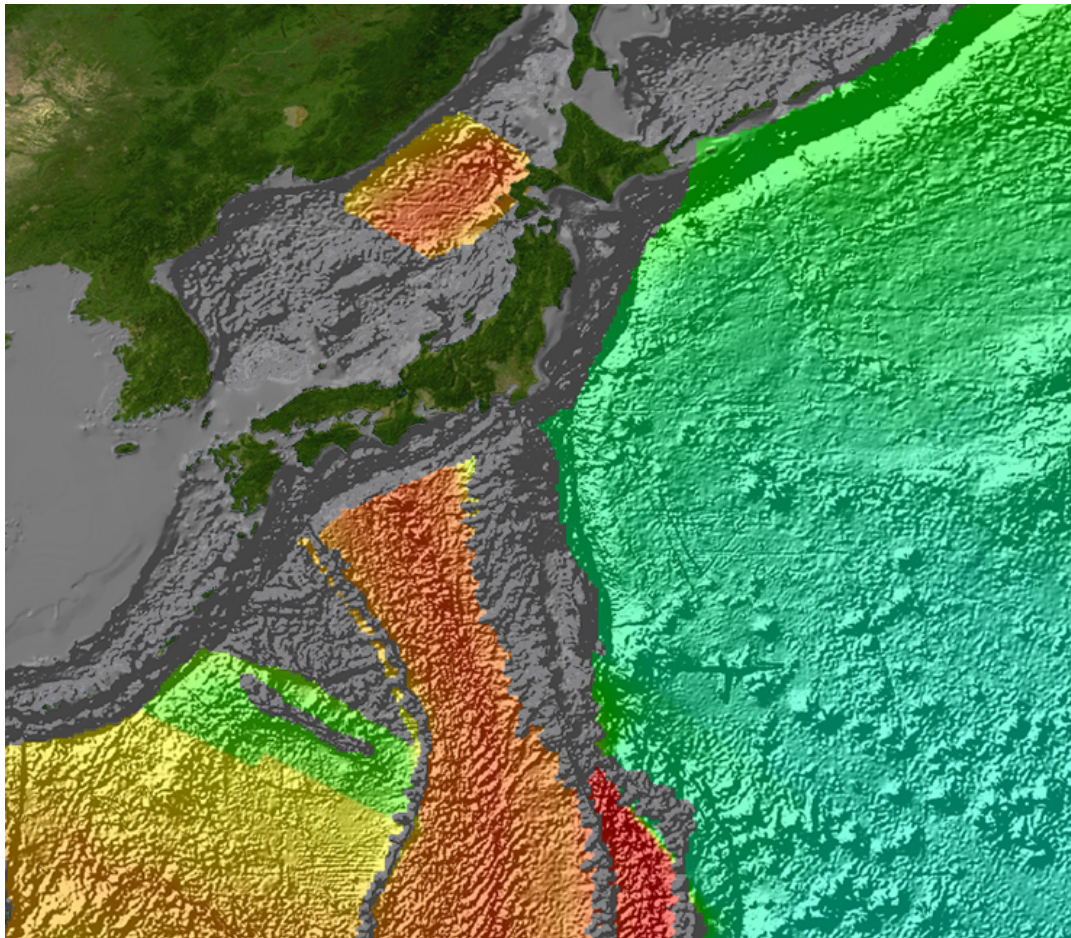
Horizontal resolution: 1-12 km

Digital map accessed: [https://topex.ucsd.edu/marine\\_topo/mar\\_topo.html](https://topex.ucsd.edu/marine_topo/mar_topo.html)

Original Data Source: Smith, W. H. F., and D. T. Sandwell, Global seafloor topography from satellite altimetry and ship depth soundings, *Science*, v. 277, p. 1957-1962, 26 Sept., 1997.



# ***Age of Ocean Lithosphere Japanese Islands and East Coast of Asia***



Display:

Cut image from Age of Oceanic Lithosphere (2008)

<https://www.ngdc.noaa.gov/mgg/image/crustalimages.html>

Created by: Mr. Elliot Lim, CIRES & NOAA/NCEI

Original Data Source:

Müller, R.D., M. Sdrolias, C. Gaina, and W.R. Roest 2008. Age, spreading rates and spreading symmetry of the world's ocean crust, *Geochem. Geophys. Geosyst.*, 9, Q04006, doi:10.1029/2007GC001743

# Japan and East Asia Volcanoes by Volcano Type

GVP\_Volcano\_List\_Holocene.csv

- Stratovolcano
- Shield
- Submarine
- Pyroclastic cone
- Caldera
- Volcanic field
- Complex
- Lava dome
- Fissure vent
- Maar
- Compound
- Tuff cone
- Pyroclastic shield
- Crater rows
- Lava cone
- Subglacial
- Stratovolcano?
- Cone
- Explosion crater
- Tuff ring

Volcanoes classified by volcano type.

Display: All volcanoes from the last ~10,000 years (Holocene)

Source: Smithsonian Institution, National Museum of Natural History, Global Volcanism Program, Holocene Volcano List, [https://volcano.si.edu/list\\_volcano\\_holocene.cfm](https://volcano.si.edu/list_volcano_holocene.cfm)

