

Lesson #14 Tsunamis

Objective: Be able to define Tsunamis and explain how they are created.

Bell Ringer: Write the lesson number and objective in your science notebook. Be ready to define Tsunami

Tsunami

- A long high sea wave caused by an earthquake, submarine landslide, or other disturbance
- Tsunamis can be a localized or widespread affect of earthquakes

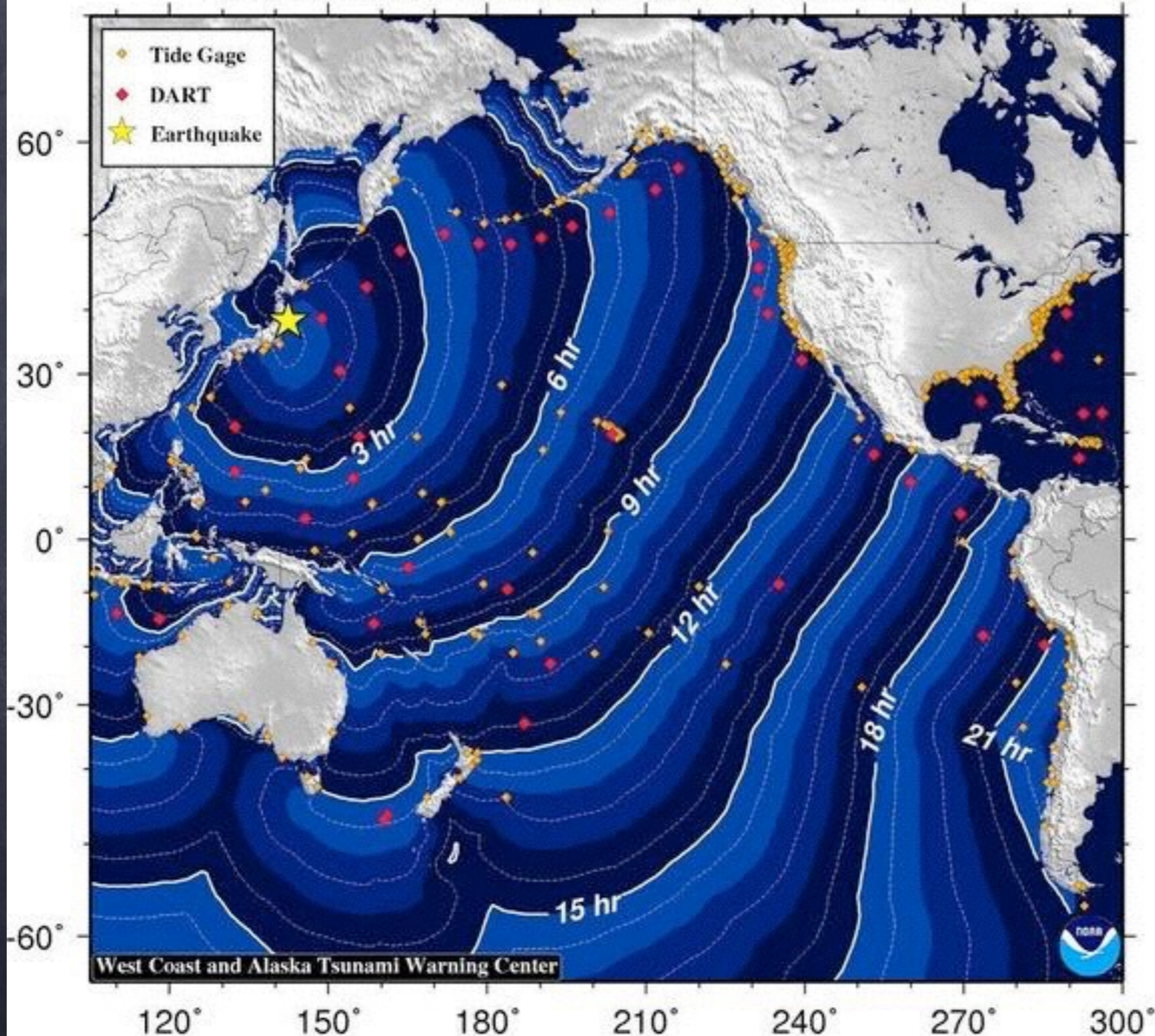
2011 Japan tsunami and earthquake

- March 11, 2011 a 9.0 magnitude earthquake took place 231 miles northeast of Tokyo at a depth of 15.2 miles
- The earthquake causes a tsunami with 30-foot waves that damage several nuclear reactors in the area.
- The fourth-largest earthquake on record (since 1900) and largest to hit Japan.



Tsunami Travel Times

Tsunami travel time contours in hours, beginning from the earthquake origin time.



West Coast and Alaska Tsunami Warning Center

Event ID: lhvdp9

Earthquake Magnitude: 9.0

Earthquake Location: [38.322N, 142.369E], "near the east coast of Honshu, Japan"

Origin Time: 05:46:23 (UTC)

Date: 3/11/2011

DART: Deep Ocean Assessment and Reporting of tsunamis