

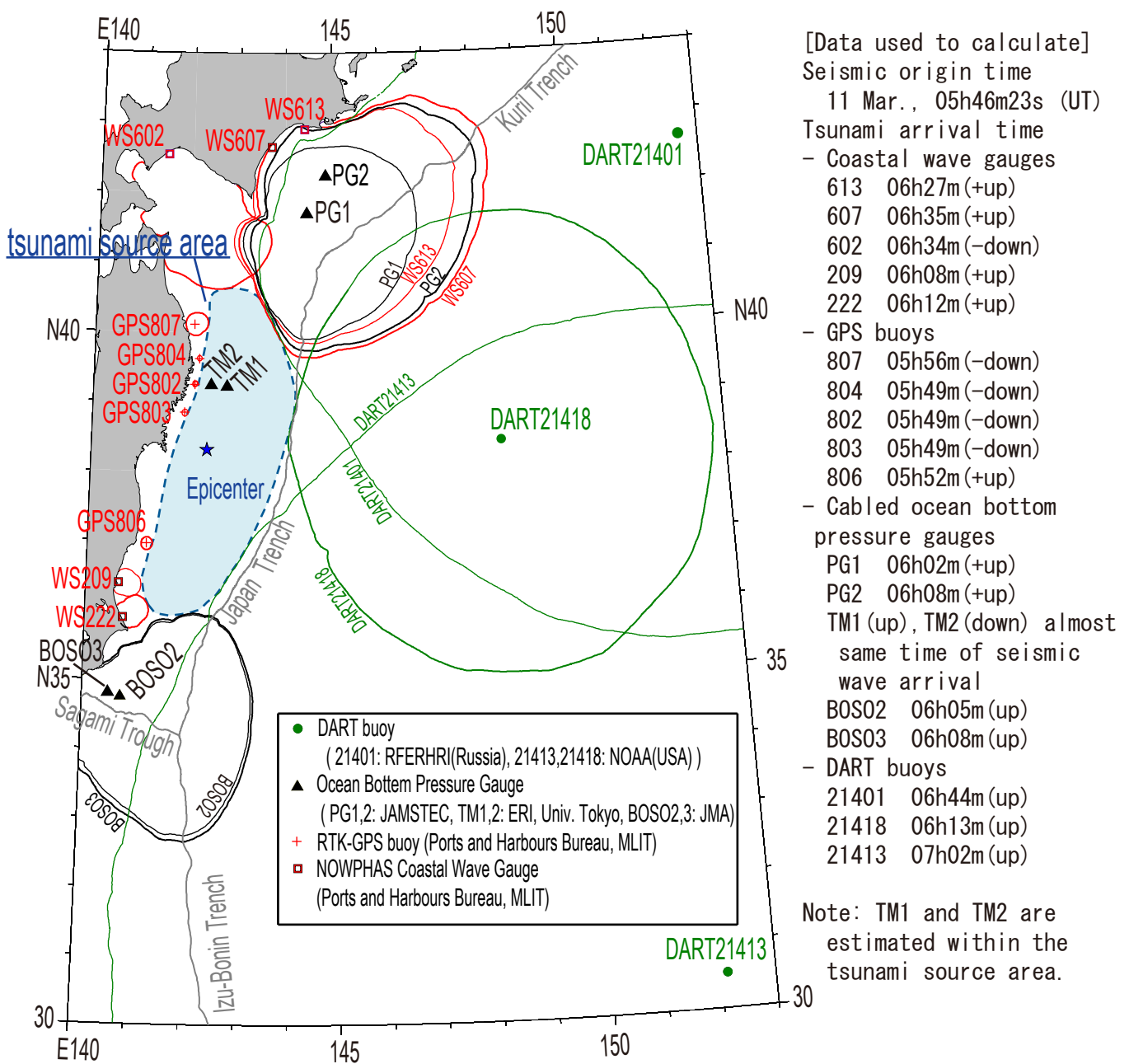
# Tsunami source area due to the 2011 off the Pacific coast of Tohoku Earthquake determined by tsunami arrival time to offshore observatories

## 1. Method of backpropagation

- (1) Calculating the location of the edge of the tsunami source area by applying Huygens' principle.
- (2) ETOPO1 is used for bathymetry data.
- (3) Tsunami travel times are modified as much as 1 min corresponding to 150km distance from the epicenter for considering difference of timing of tsunami source generation.

## 2. Results

Tsunami source area is approx. 150km in width and 550km in length, as shown in the figure below.



Hayashi et al. (2011, submitted to AOGS2011 abstract)