

Fault model 1: epicenter-based

Modeling by Andrey Babeyko, GFZ Section 2.5

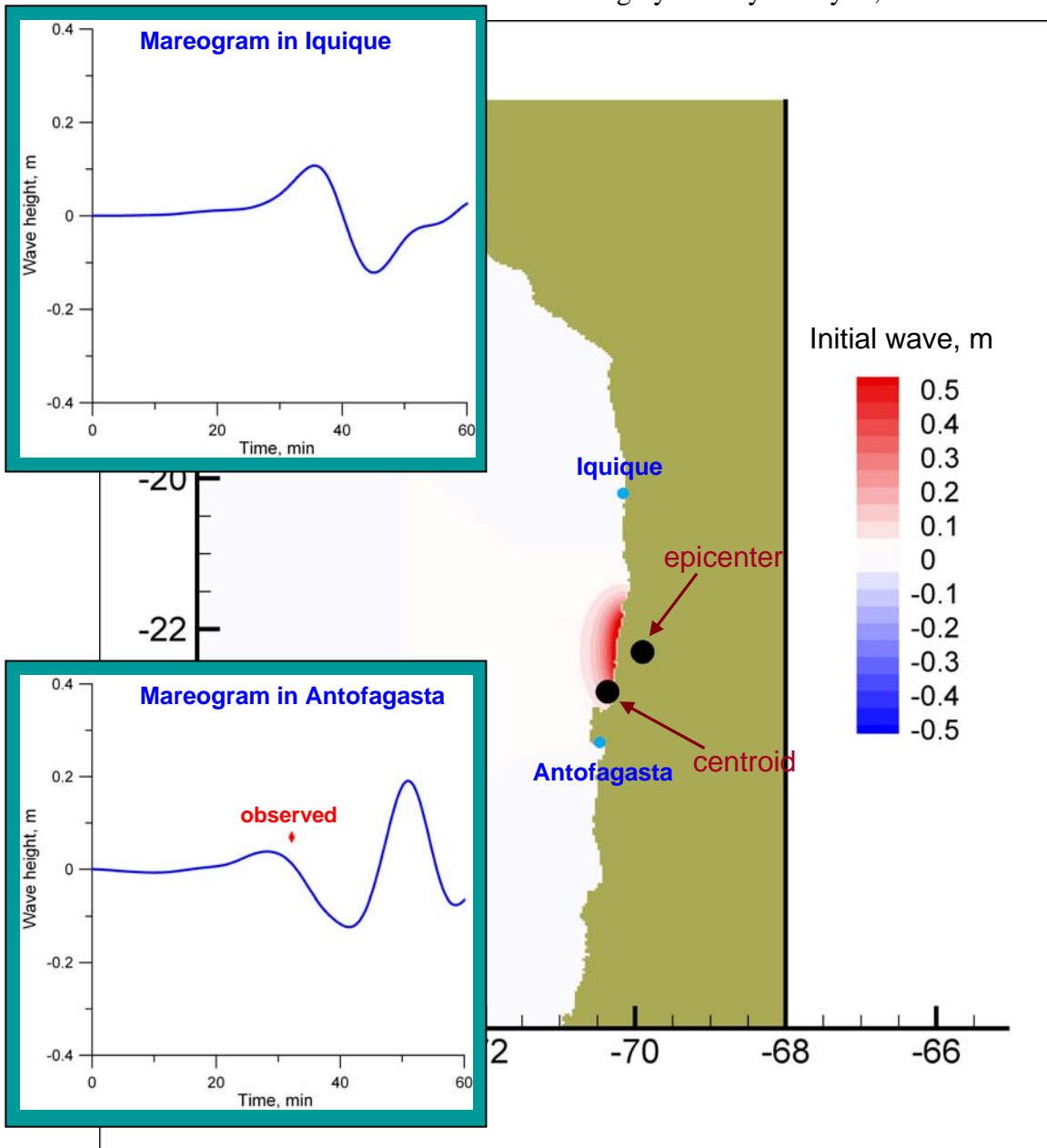
Chile, Antofagasta earthquake of 14 Nov 2007

Fault parameters:

- Length: 120 km - scaling law
- Width: 40 km - scaling law
- Slip: 3.5 m - to fit $M_w=7.8$
- Strike: 0° - USGS moment tensor
- Dip: 18° - USGS moment tensor
- Fault plane is centered at the epicenter (GEOFON)
- Depth: 37 km

Wave propagation:

Linear shallow water on 2-arc-min bathymetry (ETOPO-2)



Fault model 2: centroid-based

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Chile, Antofagasta earthquake of 14 Nov 2007

Fault parameters:

Length: 120 km - scaling law

Width: 40 km - scaling law

Slip: 3.5 m - to fit $M_w=7.8$

Strike: 0° - USGS moment tensor

Dip: 18° - USGS moment tensor

Fault plane is centered at the centroid (USGS)

Depth: 38 km

Wave propagation:

Linear shallow water on 2-arc-min bathymetry (ETOPO-2)

