

Operational tsunami modeling with TsunAWI for the German Indonesian tsunami early warning system

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German-Indonesian Tsunami Early Warning System



2005-2011 GITEWS project funded by BMBF

Nov. 2008 Inauguration of the tsunami early warning system in Jakarta

Sep. 2010 Evaluation

March 2011 Transfer of Ownership to Indonesia

2011-2014 PROTECTS – PROject for Training, Education and Consulting for Tsunami early warning Systems, BMBF



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Tsunami simulation with TsunAWI

- Theory
- Preparation - calculation - data products
- Hands on: Influence of modell parameters, initial condition

Simulation system SIM

- Installation, usage, troubleshooting
- Interface to tsunami scenarios repository
- Matching algorithm

Approx. 4 trainings per year. TsunAWI or SIM for **administrators** - doing the work together, **chief officers on duty** - as users.

PROTECTS Trainings

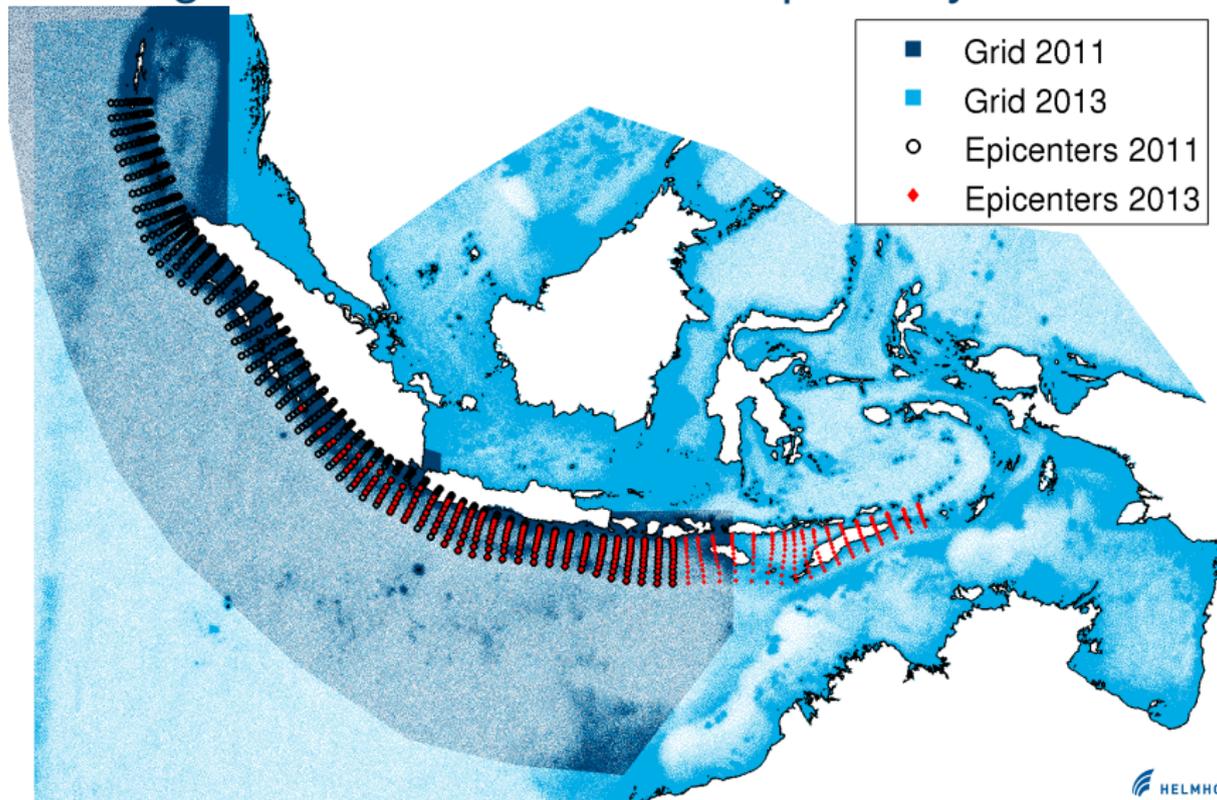
„Working with TsunAWI was very interesting.“

„The best part of the training!“

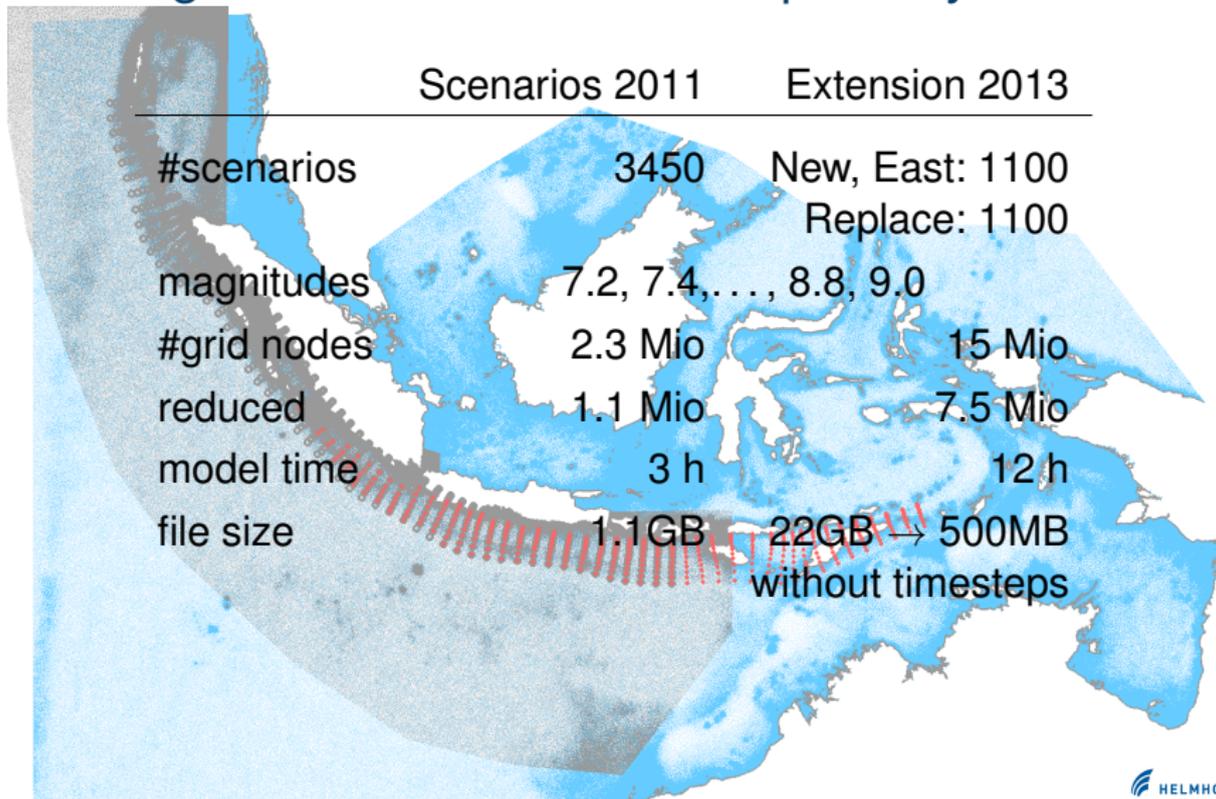


„I did not like working with TsunAWI.“

Extending the tsunami scenario repository



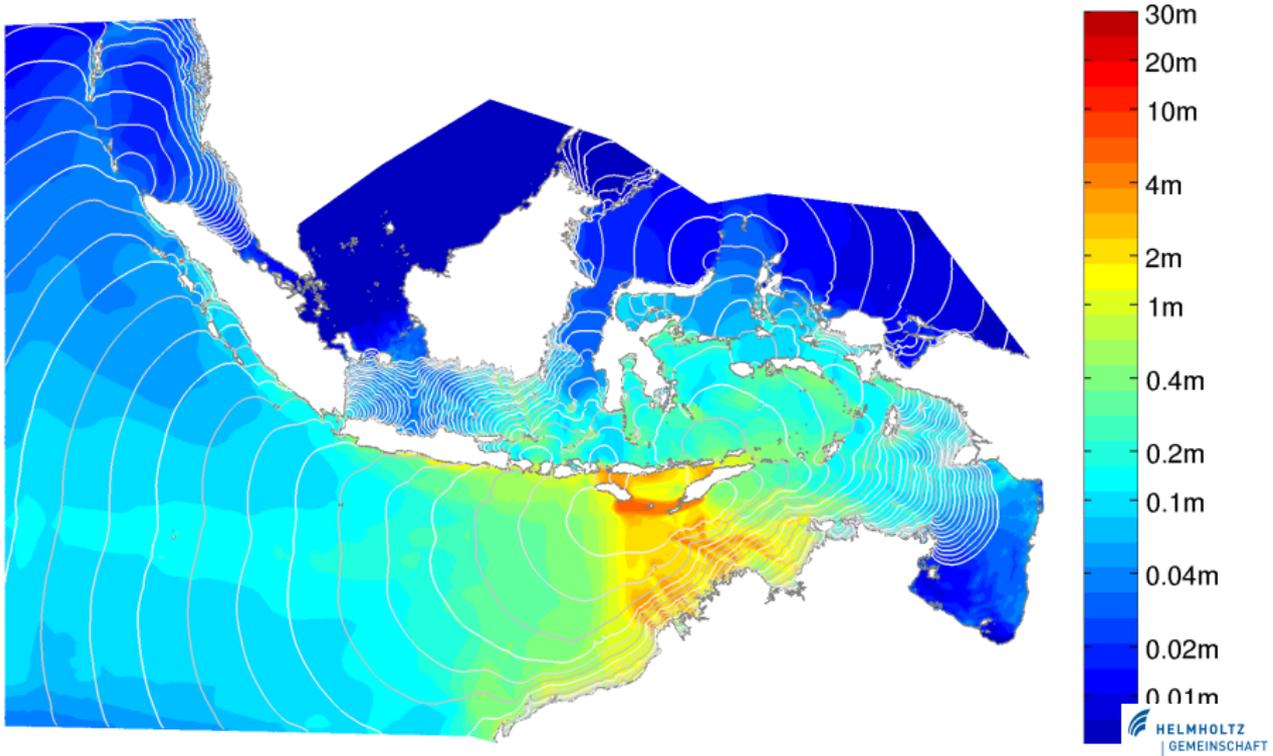
Extending the tsunami scenario repository



PROTECTS

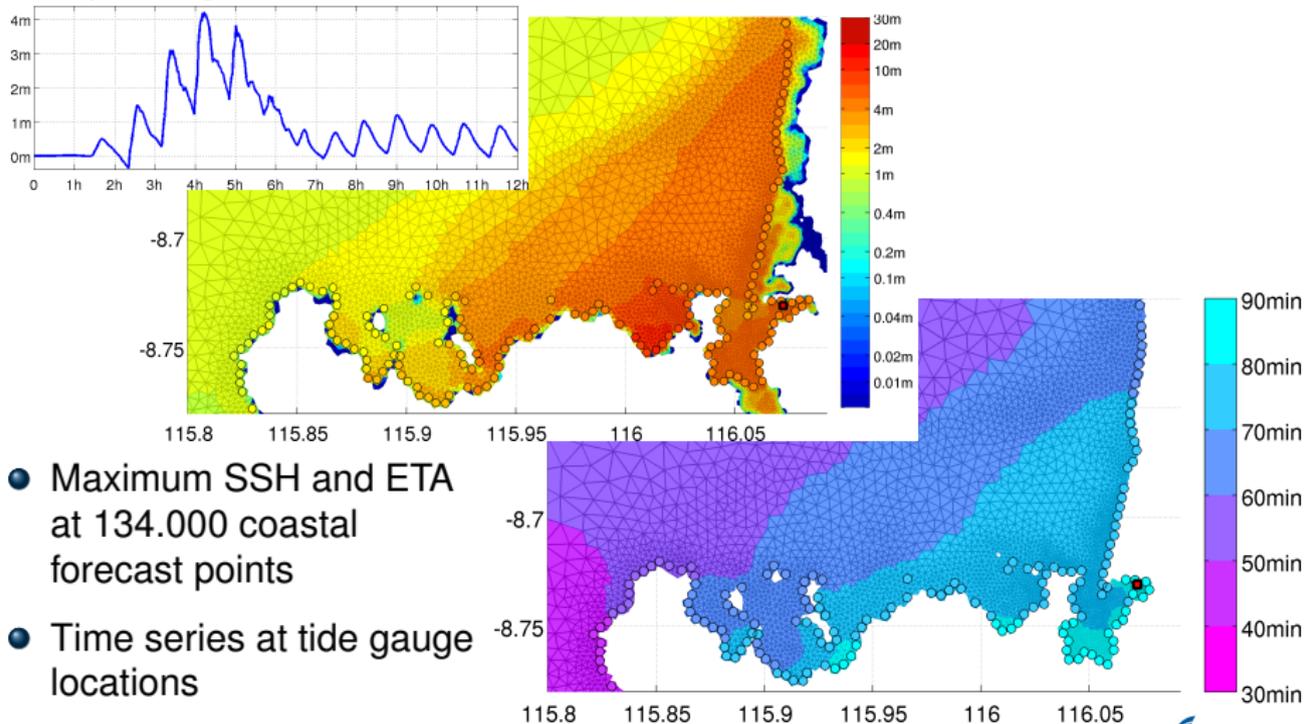
Scenario data products

Example: Magnitude 9.0 in the Eastern Sunda Arc



Scenario data products

Example: Magnitude 9.0 in the Eastern Sunda Arc, zoom to Lembar, Eastern Lombok



- Maximum SSH and ETA at 134.000 coastal forecast points
- Time series at tide gauge locations

- Further support for Indonesia
- Interface/GUI for TsunAWI for easy use by trained experts,
- Near real time modelling with TsunAWI,
- Cooperation with Chile.

- TsunAWI as testbed for numerical techniques for ocean modelling, in particular a coastal model.