

Theme 2, Sub-Theme 1

Tsunami Warning Operations

Session Summary

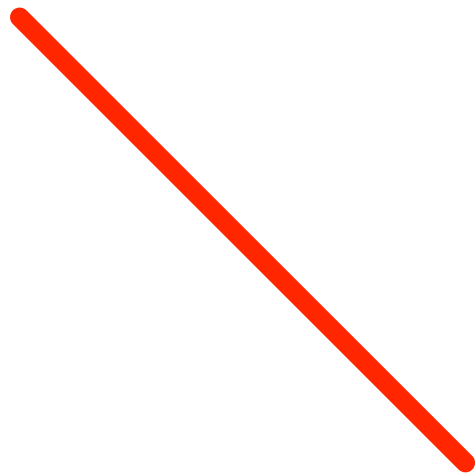
COMPETING REQUIREMENTS

SPEED and ACCURACY

When to issue Tsunami Warning?

- EQ (Location, Magnitude, Finite Fault)
- Forecast (Source, Coastal Inundation)

Accuracy



Time (minutes)

LOCAL TSUNAMIS

SPEED and ACCURACY

- Announce Quickly
Hypocenter + Magnitude => Database
- Simple Message (Warning => Evacuate)
Blocks, Alert Categories (hgt), Action
- Don't wait for warning – leave immediately
Comms, night/day, special needs pop, slow eqs,

Timeline – Forecasting

Goal: 15 min

NOW => FUTURE

- * EQ Source: 3-15 min => (?)
- * Basin-wide Forecast: 1-5 min => (1)
- * High-Res Forecast – Inundation: 10-15 min => (1)
- * Data DART – iterate /improve: 20-120 min => (10)

REALITY - FORWARD

- * NO PREFECT WARNING
- * SCIENCE HARD, BUT NECESSARY
- * FOR PROGRESS - BOTH REQUIRED
TECHNOLOGY (TSUNAMI WARNING)
and PREPAREDNESS