

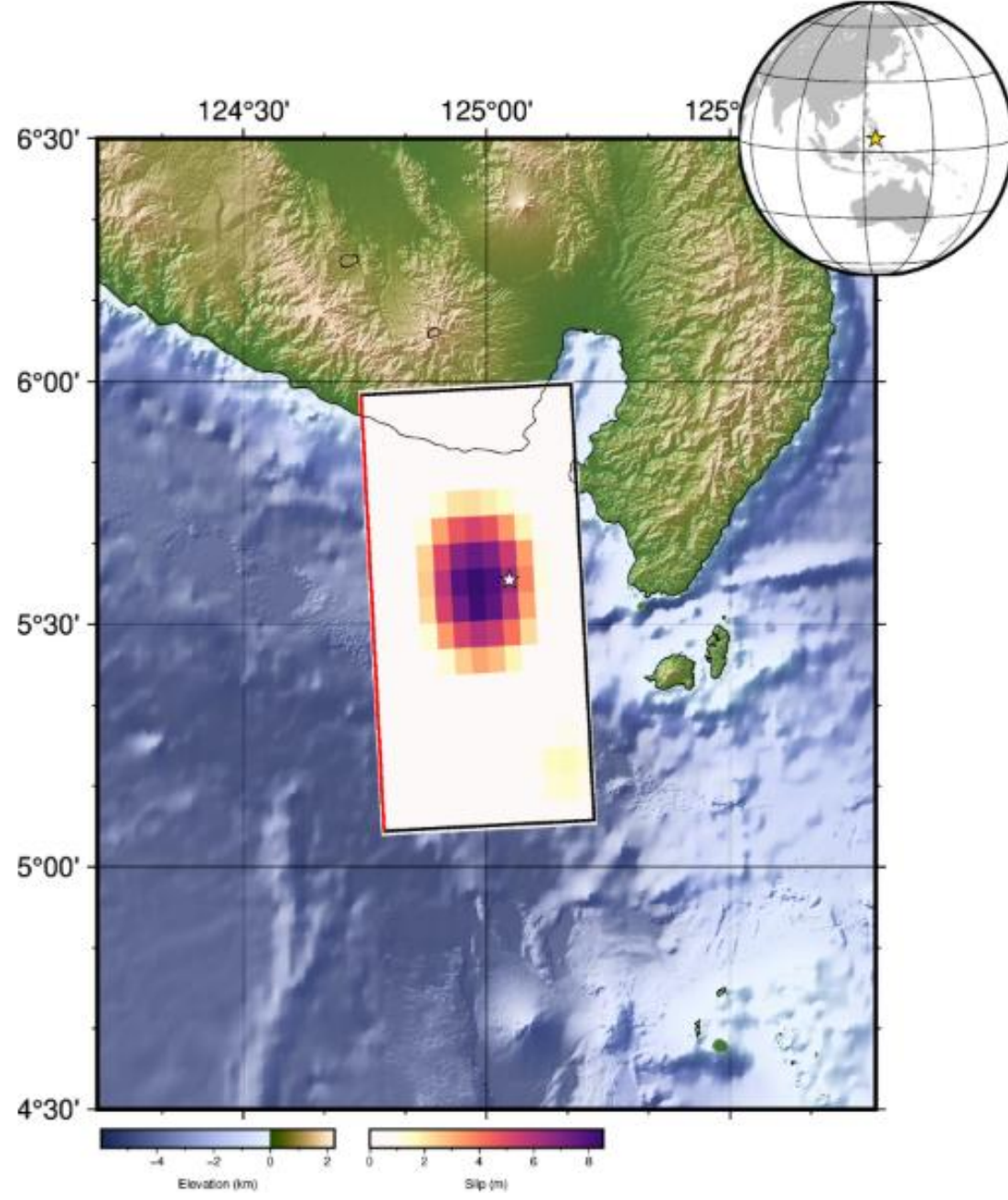
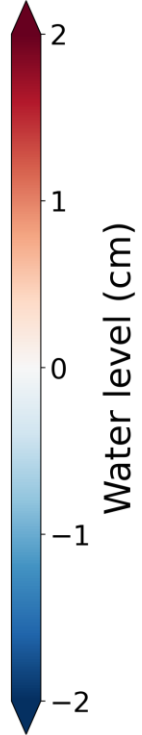
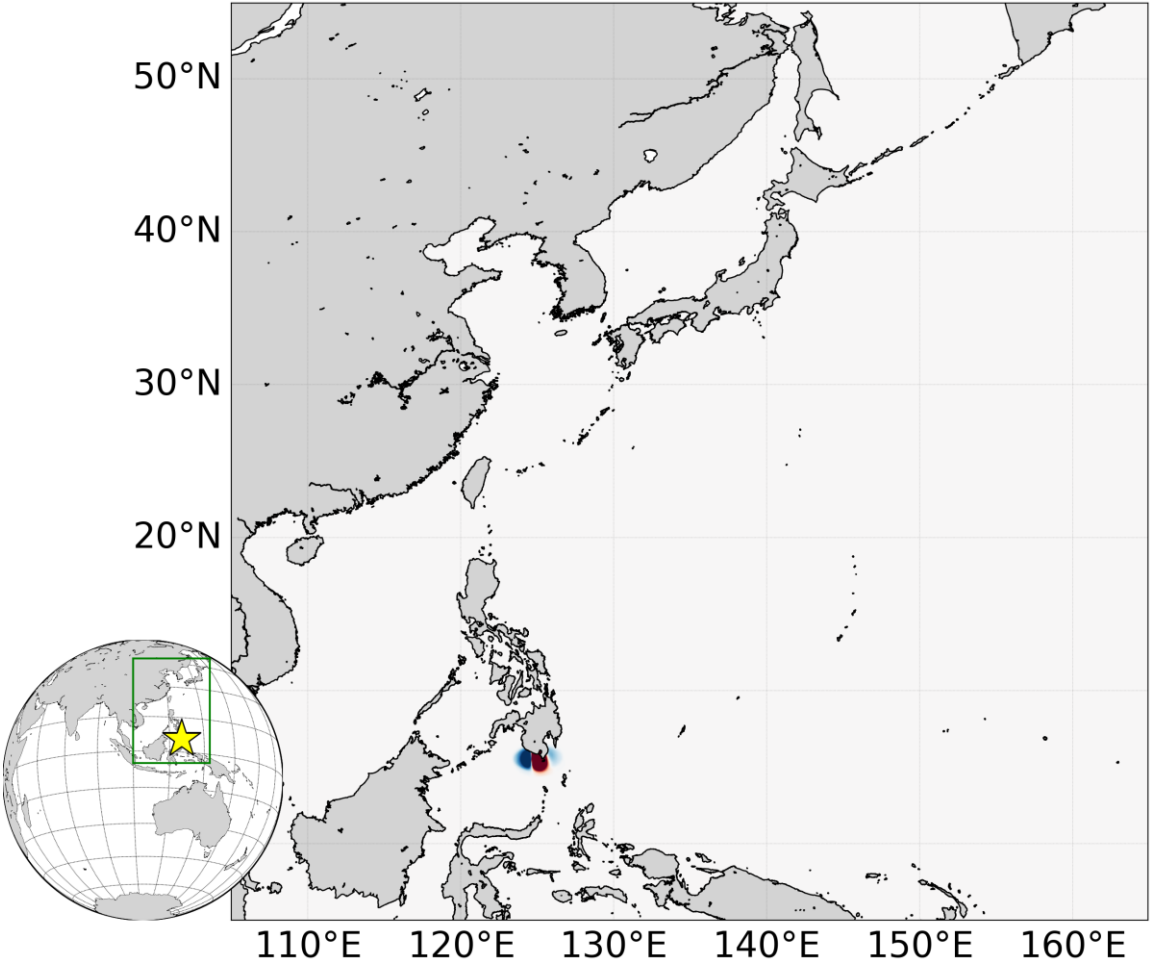
# Modeling the 8 June 2026 Mw 7.8 SW of Kablalan, Philippines Earthquake

An-Chi Cheng; Anawat Suppasri; Fumihiko Imamura

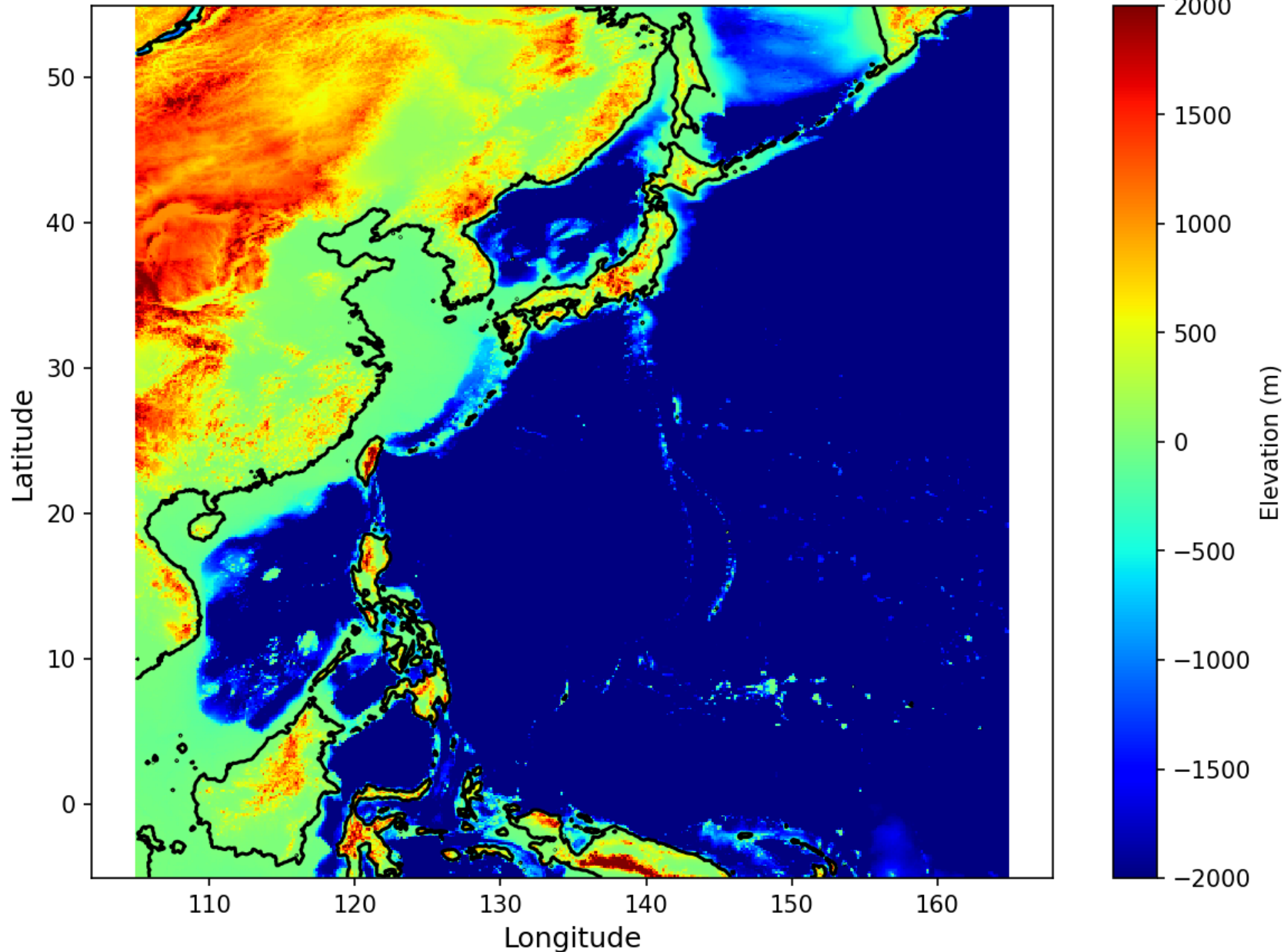
Tsunami Engineering Laboratory  
IRIDeS, Tohoku University, Japan

# Tsunami Source Model

08 June 2026 (M7.8) SW Kablalan Earthquake : 07 : 37 (TST)



# Topography and Bathymetry Data



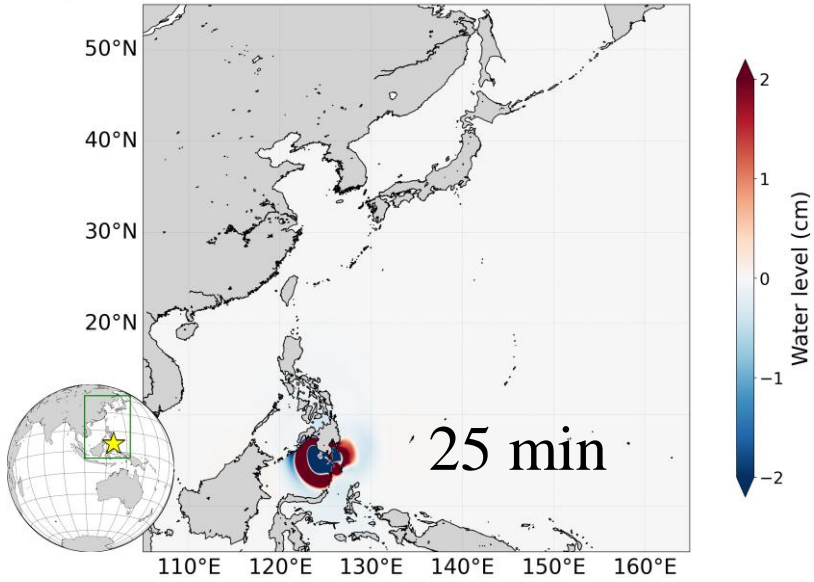
- GEBCO, 2026 dataset (15 arc-sec)
- Resampled to 2.5 arc-min (~4550 m)
- Modeled domain:  
Lon: 105 – 165 °E;  
Lat: -05 – 55 °N

# Tsunami Propagation Model

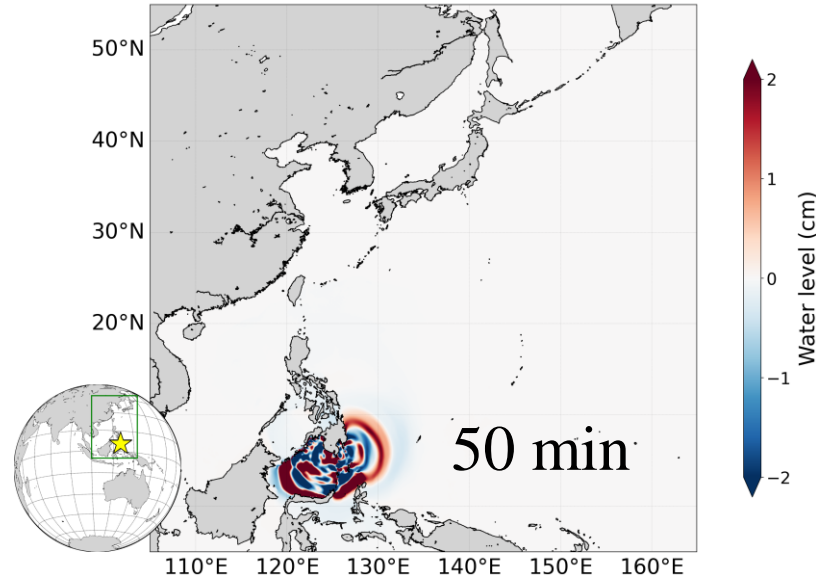
	Computational Condition
Coordinate	Spherical Coordinate
Nonlinear Effect	Linear term (no advective; no friction)
Wave Theory	Long Wave Theory
dt	0.5
Total time	8 h
Land-Sea Boundary	Reflective Boundary
Num. of layer	1 (2.5 arc-min)

# Simulated Tsunami Propagation

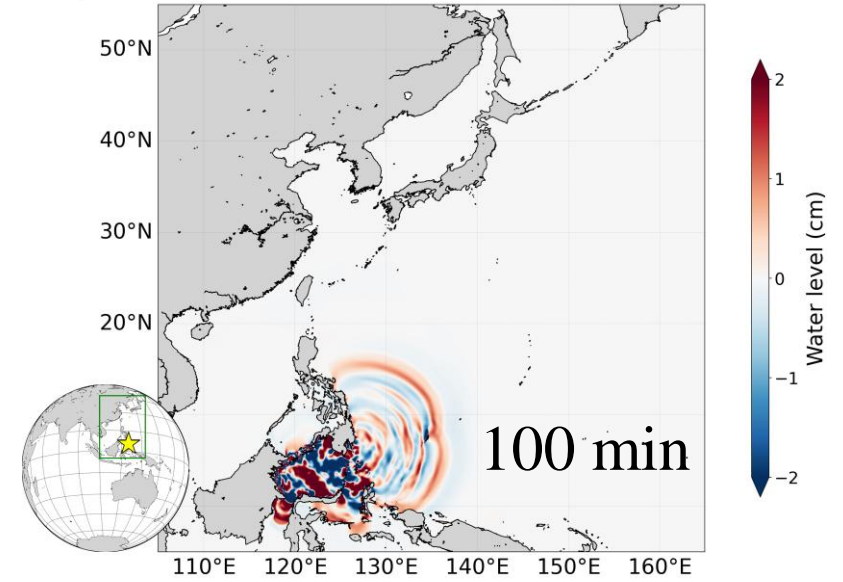
08 June 2026 (M7.8) SW Kablalan Earthquake : 08 : 02 (TST)



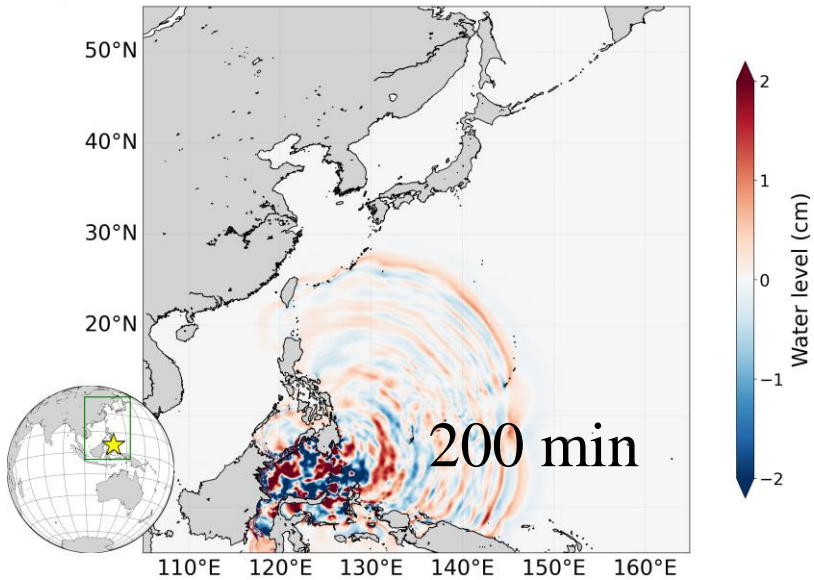
08 June 2026 (M7.8) SW Kablalan Earthquake : 08 : 27 (TST)



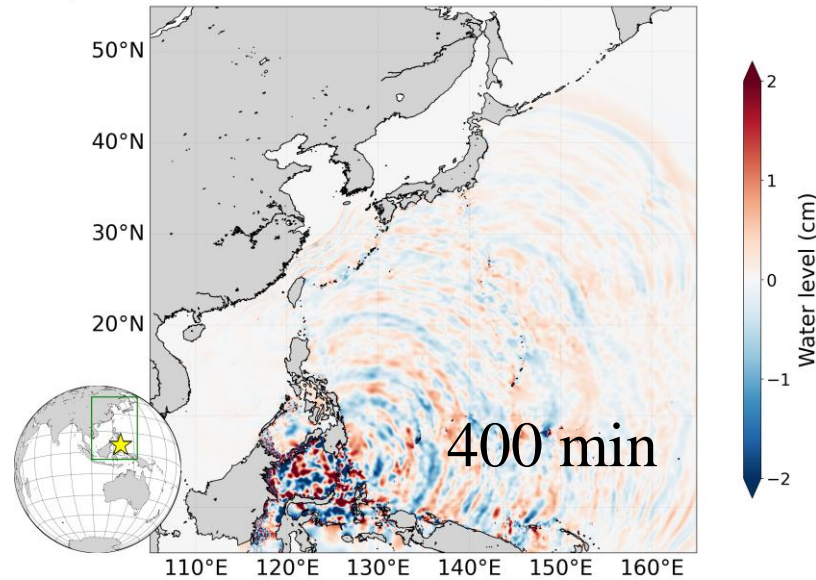
08 June 2026 (M7.8) SW Kablalan Earthquake : 09 : 17 (TST)



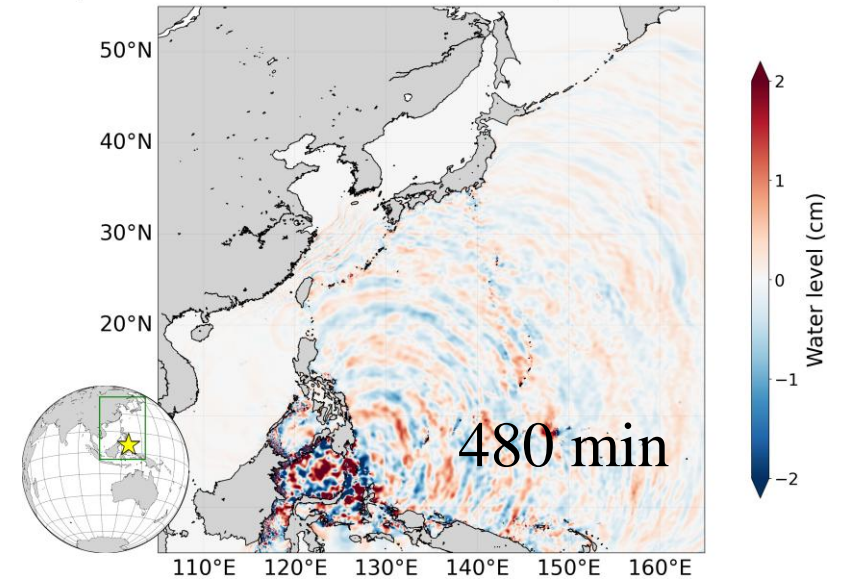
08 June 2026 (M7.8) SW Kablalan Earthquake : 10 : 57 (TST)



08 June 2026 (M7.8) SW Kablalan Earthquake : 14 : 17 (TST)



08 June 2026 (M7.8) SW Kablalan Earthquake : 15 : 37 (TST)



# Simulated Maximum Water Level

