

Outline





Background

Seismotectonic setting The 2013 Bohol earthquake Regional geology

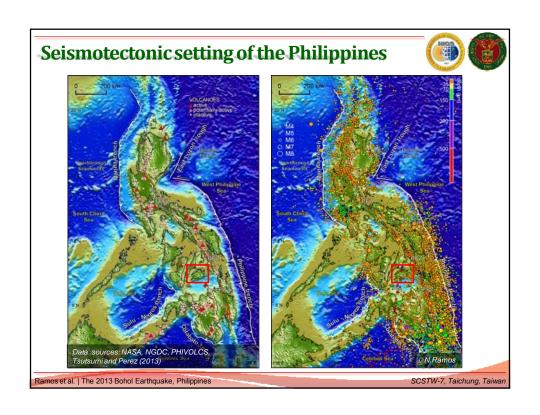
Geological hazards

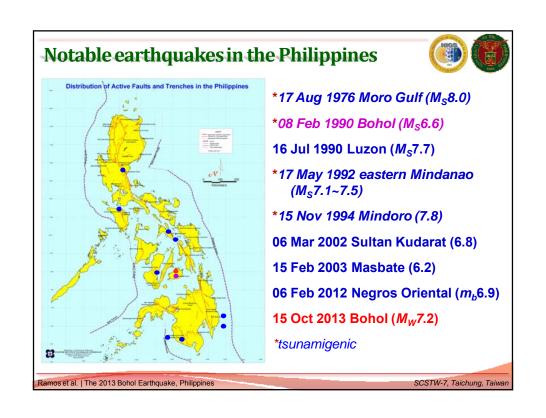
Surface rupture Shoreline deformation Karst collapses

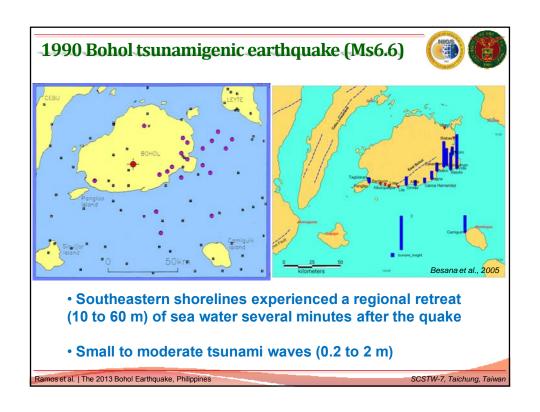
Implications for source fault
Highlights and future work

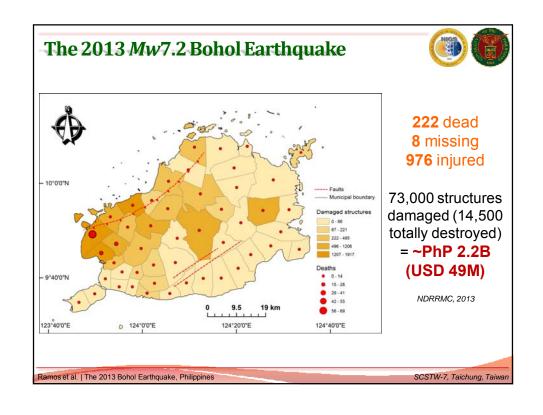
Ramos et al. | The 2013 Bohol Earthquake, Philippines

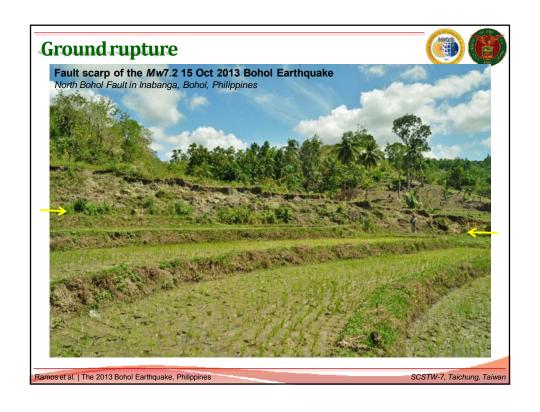
SCSTW-7, Taichung, Taiwan

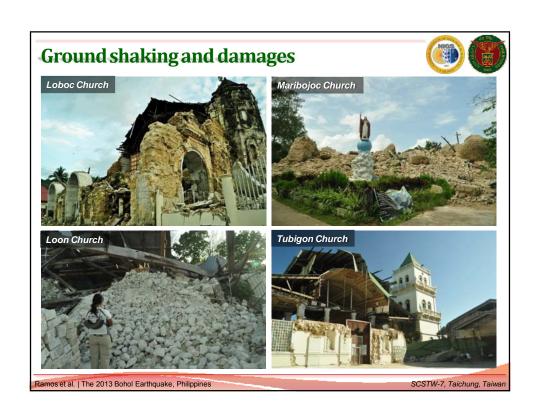




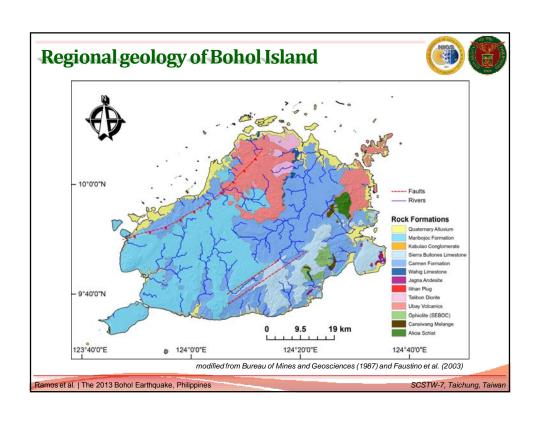


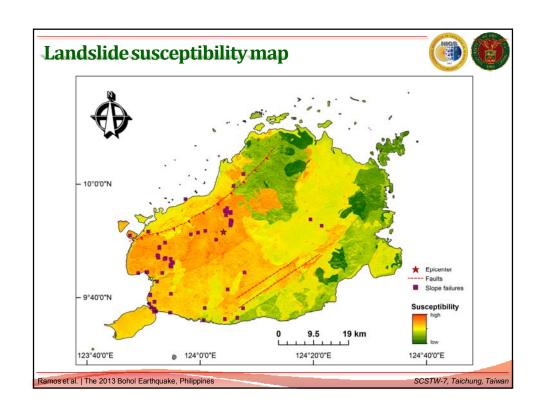




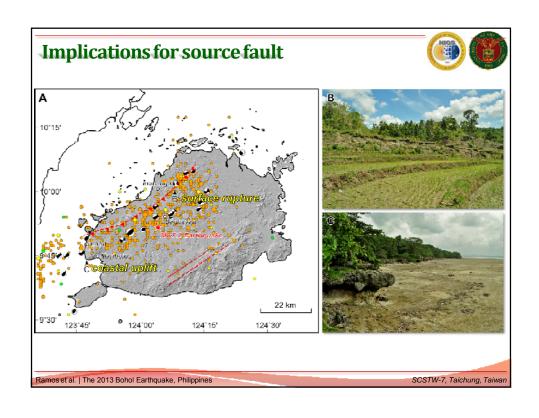


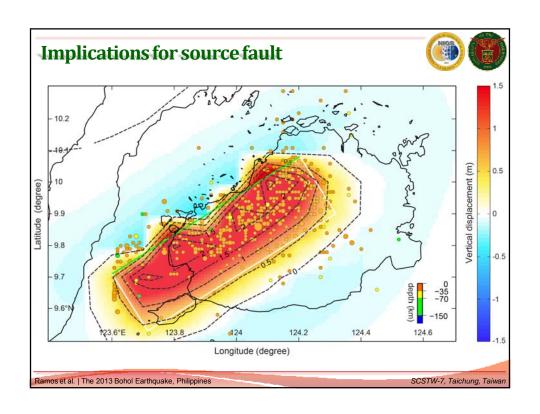












Highlights





- The 2013 Bohol earthquake is the most damaging surface rupturing earthquake to occur in recent years (after the 1990 Luzon earthquake)
- Variable geologic conditions
 - → Impacts and hazards varied across Bohol Island
 - → Most damages occurred on karst regions (underlain by the Maribojoc and Carmen Formations)
- Field data, focal mechanism solutions and aftershock distribution
 - → SE-dipping reverse fault

Ramos et al. | The 2013 Bohol Earthquake, Philippines

SCSTW-7, Taichung, Taiwan

Future work





- Assessment of karst regions and groundwater conditions
 - → safer locations and more suitable conditions for evacuation sites and temporary settlements

Ramos et al. | The 2013 Bohol Earthquake, Philippines

SCSTW-7, Taichung, Taiwan

