

Geomorphic and paleoseismic investigations of the PFZ have been conducted since 2003 with Kyoto University, Japan. Trenches were excavated along Digdig fault (2003, 2004), San Jose fault (2004), Gabaldon fault (2006) and San Manuel fault (2006) in Central Luzon. After the 2003 magnitude 6.2 earthquake, trenches were also dug in Masbate (2004) under a PHIVOLCS-TITech collaborative project.



Trench site along San Jose fault in Central Luzon, 2004

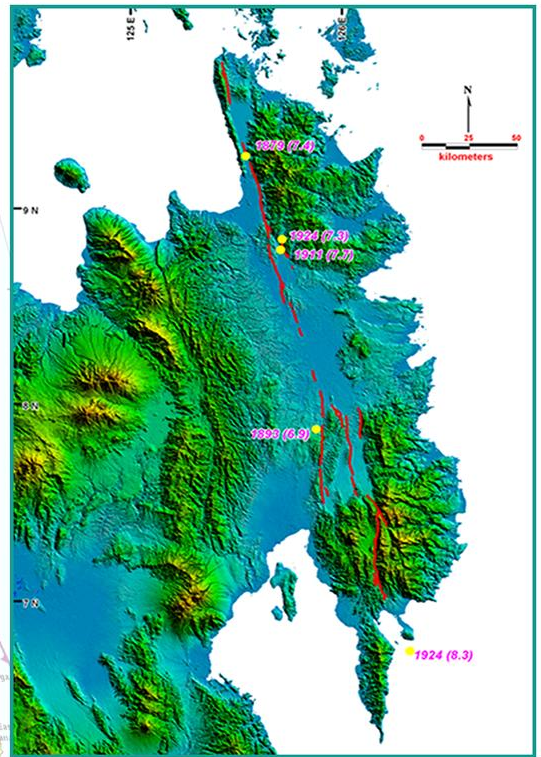
Paleoseismic trenches were excavated in Agusan del Norte (2009), Compostela Valley (2009) and Davao Oriental (2010) to study the Eastern Mindanao segment of the PFZ. Such studies enable us to learn about the location, recurrence interval and size of large-magnitude prehistoric earthquakes, as well as produce large-scale active fault maps of the PFZ. A planned paleoseismological investigation is lined up for the Infanta, Guinayangan and Leyte segments of the PFZ.



Trench site at Barangay La Paz, Santiago, Agusan del Norte, 2009



Trench site at Barangay Sto. Nino, Butuan City, Agusan del Norte, 2010



Revised map of the Eastern Mindanao segment of the PFZ (red lines) (Perez et al, 2010). Dots represent epicenters of historical earthquakes with year, and magnitude (in parentheses)



PHIVOLCS personnel use Total Station surveying instrument to map active faults in the field

Revised active fault maps for the whole country are now incorporated in Geographic Information System (GIS) platforms for systematic archiving and utilization. The VFS Map is available in 1:10,000 scale. GIS-format hazards data are currently being shared with end-users and stakeholders such as planners, administrators, policy-makers and the general public. Active fault maps and paleoseismic data are being utilized in various applications such as land use planning, hazards assessment and policy formulation.

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