

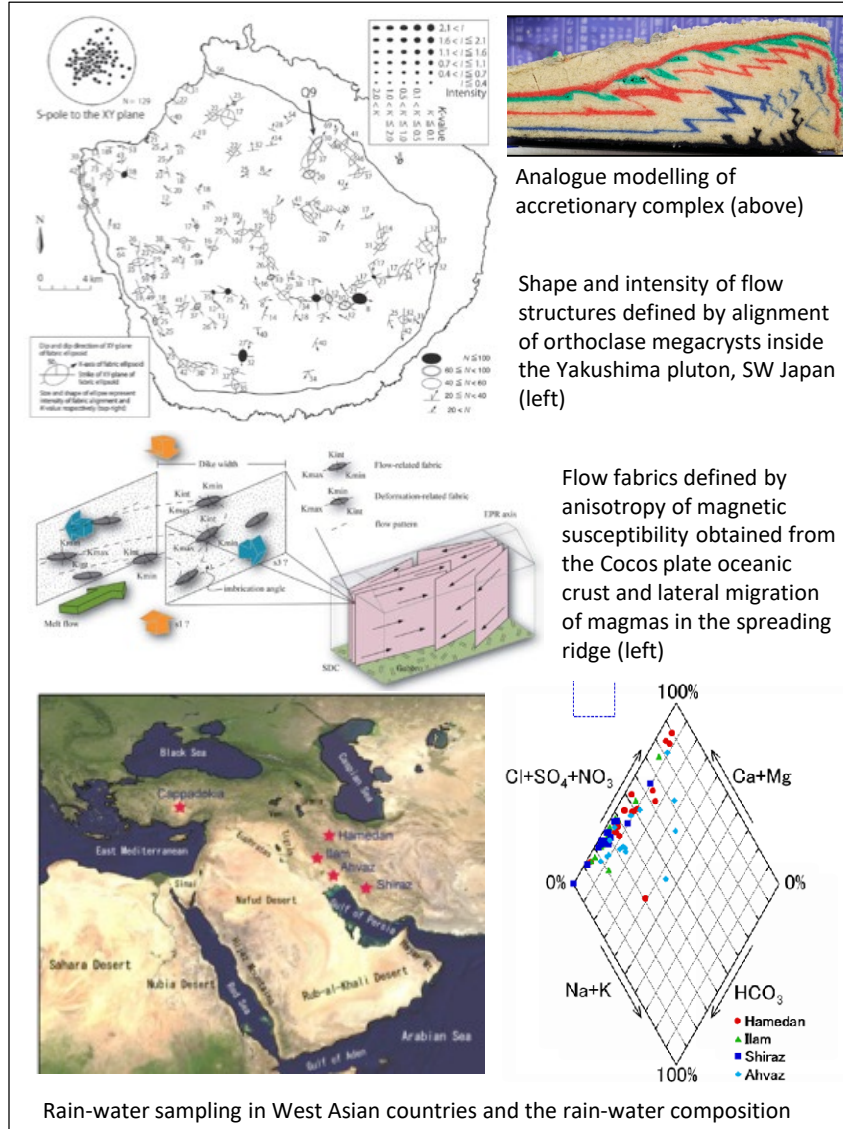


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# Studies on the development of accretionary prisms and arc magmatism

[Keywords: Geology, Tectonics, Geochemistry, Geochronology, Paleo-environment]

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## Content:

My main interest is in the processes of continental crust formation at subduction zones, especially those formed in ridge-subduction environment. My interests extend to the development of accretionary prisms and distribution of seismogenic faults, accretion processes of oceanic crust at spreading ridges and mechanisms of magma intrusion. Fieldwork based on structural geological methods is my main approach to understand these processes, but I also take paleomagnetic, geochronological, geochemical approaches. My focal area for this study is in Southwest Japan and Chile-ridge subduction zone. Utilizing IODP drilling ships and research vessels and submersibles run by JAMSTEC, I studied structures and development of accretionary prism in the Nankai trough, sedimentation nearby seismogenic zones in the Chile margin, oceanic crust accretion processes off Panama. More recently, I run an archaeological project on development of urban mine in the early Mesopotamian cities and its relation to the environmental changes surrounding the cities.

Keywords: Earth & Planetary Science

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