# Petrological characteristics of upper mantle of the Oman ophiolite: implications for evolution of ophiolites

# Shoji Arai [1]

[1] Dept. Earch Sci., Kanazawa Univ.

The Oman ophiolite had been formed through more than one tectonic setting. Detrital chromian spinels in recent wadi sediments derived from the upper mantle section frequently show high Cr#s (= Cr/(Cr + Al) atomic ratios) , higher than 0.6, indicating a high non-oceanic character for the mantle. Preliminary analyses on in-situ rocks demonstrates that only discordant dunites have the high-Cr# spinels. This suggest a transition from mid-ocean ridge to supra-subduction zone environment for the Oman mantle crust formation.