

## U-Pb ages of detrital zircons in the Ryoke metamorphic rocks and their geological implication

NAKAJIMA, Takashi<sup>1\*</sup>, ORIHASHI, Yuji<sup>2</sup>

<sup>1</sup>Geological Survey of Japan, <sup>2</sup>ERI, University of Tokyo

U-Pb ages of detrital zircons in migmatites from the Ryoke metamorphic belt with LA-ICP-MS. They made a discordia of ca.1900Ma besides plenty of data of 80-250Ma on the Concordia. There are nearly no data within 300-1850Ma.

This feature is similar to those from the Sanbagawa and Shimanto metamorphic belt (Aoki et al., 2008) recently documented by Nakama et al. (2010).

It is interesting that the age pattern of detrital zircon from sandstone from the Tanba belt, unmetamorphosed equivalent of the Ryoke metamorphic rocks, obtained by Nakama et al. (2010) do not have a concentration peak in 1500-2000Ma.

It may show that the age distribution pattern of detrital zircons does not always uniquely decide a geologic unit. There can be internal variation even in a geologic unit. Those local variations might help us to figure out the dynamic history of paleogeography of the sedimentation site or regional scale and timing of tectonic erosion.

Keywords: U-Pb age, detrital zircon, Ryoke metamorphic rock, tectonic erosion, provenance