

## 西南日本, 一志層群下部の古地磁気

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## Paleomagnetism of the lower part of the Ichishi Group in Southwest Japan

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The Ichishi Group is an early Miocene marine sedimentary succession in central Japan and will provide geological and paleomagnetic records of crustal movement during the formation of the Japan Sea (back arc basin)-Japan arc (island arc) system. We performed a paleomagnetic study of the Ichishi Group to determine the age of the sedimentary succession by means of magnetostratigraphy, and to quantify tectonic rotation during and/or after deposition. Because we have already reported data from the upper part of the group in a previous meeting, in this presentation we will present new data from the lower part (Haze and Oi formations). We concentrated our paleomagnetic sampling on fine grained sediments (Iu Member) of the Haze Formation and those (Isegi Member) of the Oi Formation. After detailed demagnetization experiments, paleomagnetic polarity was determined for 17 sites. The reverse to normal polarity sequence for the studied section can be correlated with Chron C5Er-C5En on the geomagnetic polarity time scale, with the help of age-diagnostic microfossils. This correlation indicates that the age of the marine transgression resulting in the deposition of the Iu Member is ca. 18.7 Ma. Site mean directions of characteristic remanent magnetizations obtained for 15 sites were used to show the paleodirectional change with time, which will be discussed in the presentation.