

## A drilling report of speleothems in caves for obtaining long-term paleoclimatic records in Okinawa, Japan

\*Ryu Uemura<sup>1</sup>, Yuta Arimura<sup>1</sup>, Osamu Abe<sup>1</sup>, Ryuji Asami<sup>2</sup>

1. Nagoya University, 2. Tohoku University

We drilled speleothem borehole cores in caves to obtain continuous data with long term and high temporal resolution. In this presentation, we report on the drilling and a summary of the core samples obtained on Okinawa Island and Minamidaito Island, Okinawa, Japan. Flowstones are expected to be suitable for paleoclimatic reconstructions, but the core samples obtained this time were not suitable for climate reconstruction because of their low density and alternation with mud layers. The most extended sample was a core sample totaling 126 cm drilled from large stalagmites on Minamidaito Island, which has a low soil component and is considered suitable for climatic restoration. Long-term (and/or high-resolution) paleoclimatic records are available for these long stalactite samples, but future issues, such as working problems and partial deviation from the growth axis, are also discussed.

Keywords: speleothem, isotope