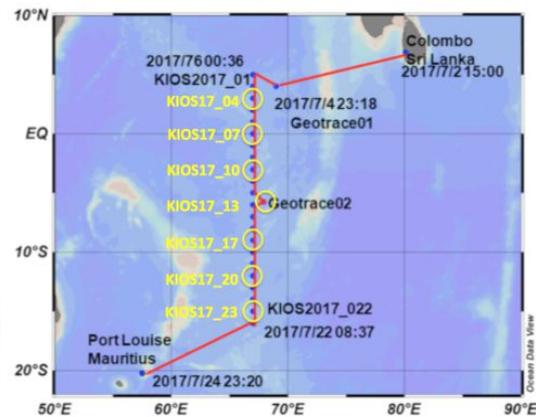


## ANNUAL REPORT ON GEOTRACES ACTIVITIES IN SOUTH KOREA

May 1st, 2017 to March 30th, 2018

### Cruises

- Korea Institute of Ocean Science and Technology (KIOST) have conducted 1<sup>st</sup> yr Indian Ocean section cruise covering 5N to 16S (1 degree int.) in 67E (July 2 – 24). Scientists in KIOST successfully collected the clean seawater samples for trace metal analyzes at 7 stations (3 degree interval, 112 for dissolved- and 56 for particulate samples) in this cruise, including 1 GEOTRACES crossover station (5° 16', 67° 54' in GI02 cruise). Together with the trace Elements, on-board measurements of radioactive Th-234 tracer also was done in this cruise (at the same station with TE clean sampling)



### New projects and/or funding

- KIOST begins 3-years Indian Ocean Project (2017-2019), focusing on “Understanding the circulation and internal cycling in Indian Ocean in accordance with variability of Indian Ocean Dipole Mode”. The first open ocean TEIs study from KIOST and South Korea will be conducted as part of this project in Indian Ocean, until 2019.

### Other activities

- Korean new Research vessel, R/V *Isabu*, just launched in 2016 (~6,000 t) is equipped the Pristine trace metal clean sampler composing titanium frame and 24 × 12L PVDF sampler with Urethane coated Kevlar wire (10,000 m) and clean-room containers. Through the deep sea test cruise in Pacific (near Mariana Trench), and first Indian Ocean expedition, KIOST researchers setup the this sampler.

- At the same time, the KIOST headquarter and whole campus moved to new campus in Busan city in Nov-Dec, 2017. In new research building in Busan Campus, new clean laboratory is built. In this laboratory, the TEI-related instruments (new seaFAST ICP-MS, existing MC- and Q-ICP-MS, and new 2 FIA systems) will be newly installed in 2018. KIOST scientist is expecting that this can be the good chance to initialize the open ocean TEI study in the South Korea

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