

ANNUAL REPORT ON GEOTRACES ACTIVITIES IN CHINA-BEIJING

June 1st, 2015 to April 30th, 2016

Cruises

GEOTRACES GP06-CN (PN) cruise aboard the *R/V Dongfanghong 2* was conducted between 19 October and 2 November 2015, with Prof. REN Jingling from Ocean University of China as chief scientist. Samples for trace metals and isotopes were collected at 8 clean stations, including 2 cross stations with Japanese KH-15-3 cruise (chief scientist: Prof. Jing Zhang from University of Toyama). Clean facilities were used for the sampling and sample preparations, including Kevlar cable/Electric winch, X-Niskin bottles, clean booth and clean bench. Trace elements (Fe, Al, Mn, Zn, Cu, Cd, REEs, Hg), radioactive isotopes (^{228}Ra & ^{226}Ra , ^{231}Pa , ^{230}Th , ^{232}Th , ^{234}U & ^{238}U , $\Delta^{14}\text{C}$ (DIC)), stable isotopes (d^{15}N (NO_3), d^{13}C (DIC), d^{30}Si , d^{18}O (H_2O), $^{137}\text{Ba}/^{134}\text{Ba}$) and radiogenic isotopes ($^{143}\text{Nd}/^{144}\text{Nd}$, $^{87}\text{Sr}/^{86}\text{Sr}$) will be analyzed mainly by laboratories in Ocean University of China in Qingdao, Xiamen University in Xiamen and East China Normal University in Shanghai.

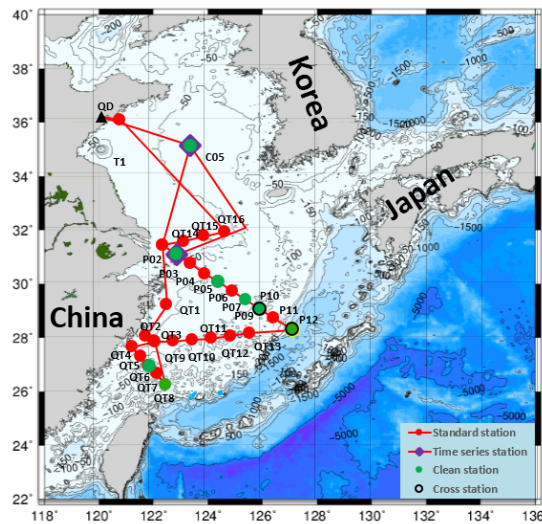


Figure. Water sampling locations in the East China Sea in 2015

R/V Tan Kah Kee (Jia Geng) of Xiamen University was launched in Guangzhou, southern China on 8 May, 2016. This ship (3,500 tonnes) will be particularly useful for enhancing China's capacity in GEOTRACES-related scientific activities by providing versatile chemically and biologically clean laboratories and sampling facilities.

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