

KY09-09 Leg-2 cruise summary

1. Cruise ID number

KY09-09 Leg-2

2. Name of ship

Kaiyo

3. Title of the cruise

Tropical Ocean Climate Study

4. Chief Scientists

Kentaro Ando (JAMSTEC) for Leg2

5. Representatives of science party

Dr. Kentaro Ando: Tropical Ocean Climate Study

Mr. Yasuhisa Ishihara: Operation of TRITON buoy

Dr. Keisuke Mizuno: Indian Ocean Moored Buoy Network Initiative for Climate Study (Japan Earth Observation System Promotion Program by MEXT)

6. Period of the cruise

Oct 10, 2009 (Yokosuka, Japan) – Dec 11, 2009 (Yokosuka, Japan)

7. Port calls

Yokosuka, Japan

Bali, Indonesia

Berau, Palau

Guam, USA

Yokosuka, Japan

8. Observation area

Eastern Tropical Indian Ocean

9. Outline of the research

m-TRITON mooring new deployment: 1 mooring was deployed

m-TRITON mooring recovery and re-installation:

2 mooring were deployed and recovered

Subsurface ADCP mooring recovery and re-installation:

1 moorings were deployed and recovered

CTD (Conductivity, Temperature and Depth) and water sampling: 5 casts

XCTD: 12 casts

XBT: 15 casts

Current measurements by shipboard ADCP:

continuous (except for other EEZ areas)

Sea surface temperature, by seasnake : continuous (except for other EEZ areas)

Surface meteorology: continuous (except for the prohibited areas)