

Indonesia China Joint Research : Current Status

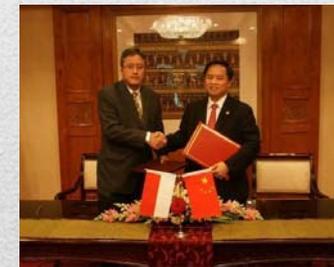
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The History of commitment for the marine cooperation between People's Republic of China and Republic of Indonesia



1. The Joint Declaration between the Republic of Indonesia and the People's Republic of China on Strategic Partnership signed in Jakarta on 25th April 2005 and amended in Beijing on 23rd March 2012
2. Implementing Arrangement on The Development of Indonesia China Center for Ocean and Climate was signed on May 13, 2009, between AMFRD- MMAF and FIO of SOA
3. Protocol Amending of The MoU on Marine Cooperation which was signed on April 29, 2011 implied to extend ICCOC for the next one year.
4. Arrangement on The Development of Indonesia China Center for Ocean and Climate signed in Beijing on 23rd March 2012, brought the ICCOC into ministerial level of implementation.



ICCOC Office Established on May 14, 2010 in Jakarta

Opening Ceremony of ICCOC office

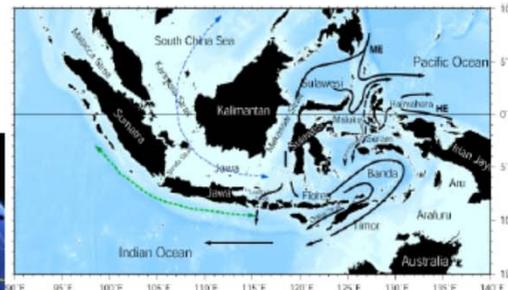


Background of Cooperation

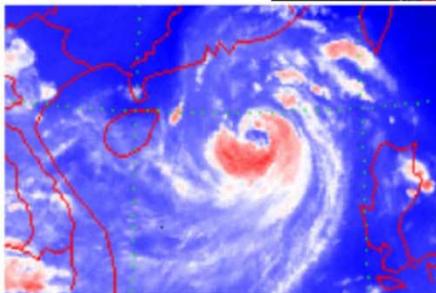
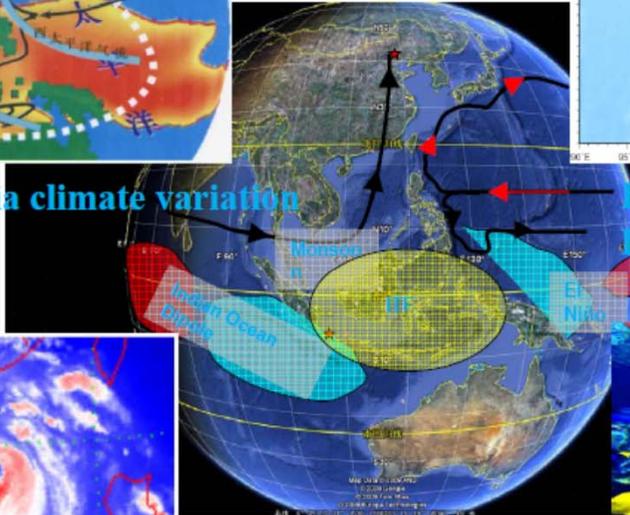
Enhancing our knowledge and Promoting its application



key area for Asia climate variation



Key Channel for Pacific to Indian Ocean Throughflow



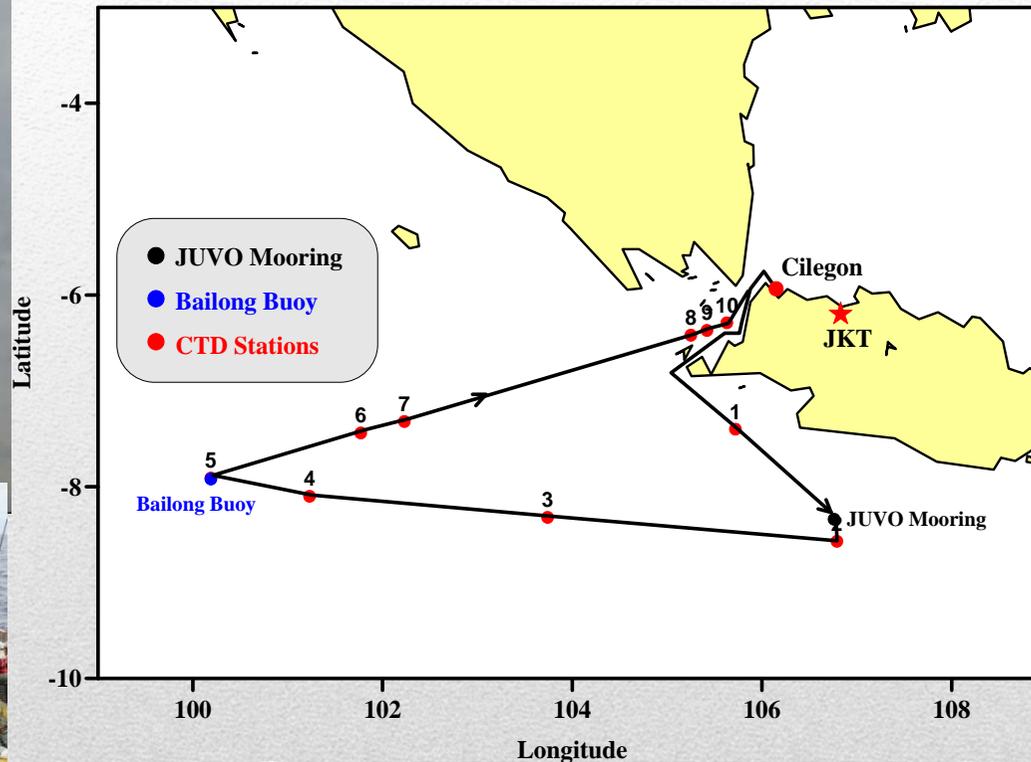
Natural and anthropogenic



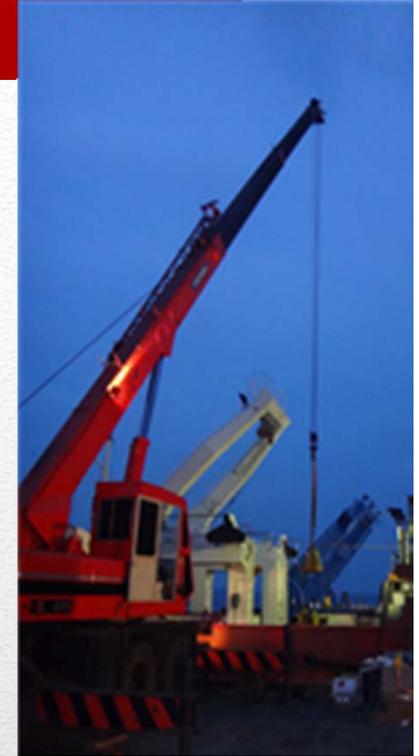
High marine biodiversity

Assisting joint research projects: JUVO

Java Upwelling Variation Observation

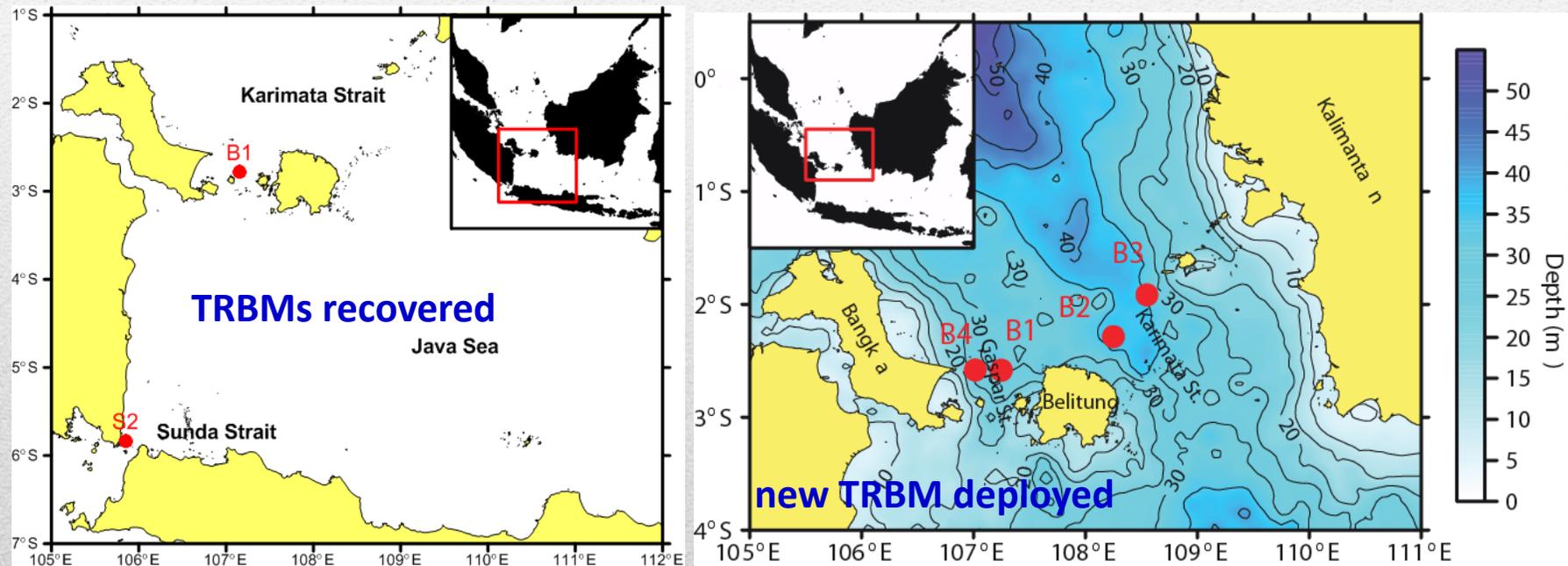


1. 7 years joint research : 2007 – 2014
2. Extended joint research 2015 - ???

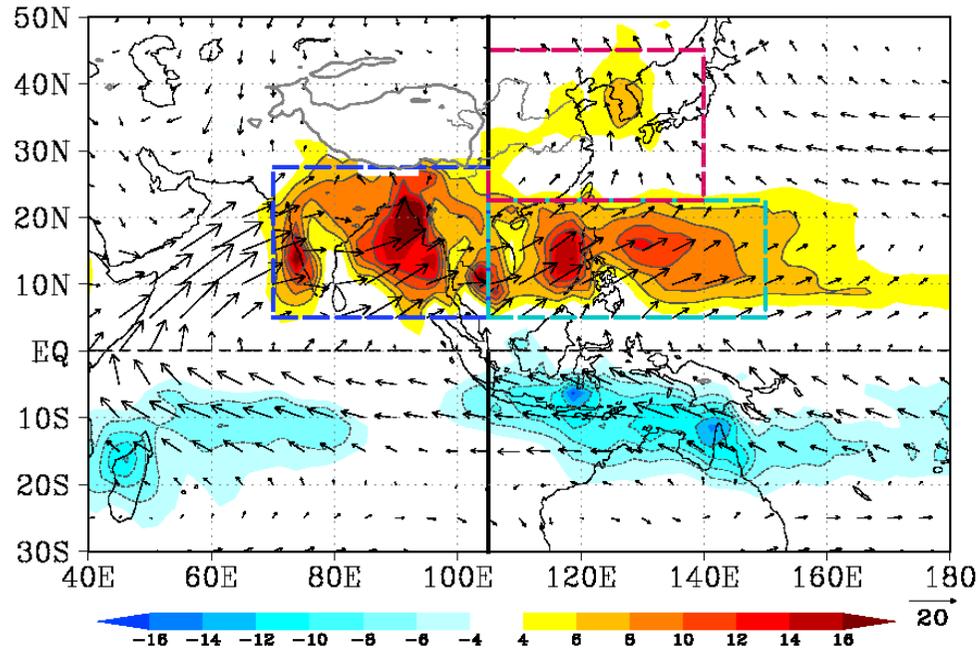


Assisting joint research projects: **SITE** (The South-China Sea-Indonesian Seas Transport/Exchange)

1. 8 years joint research : 2006 – 2014
2. Extended for 2-3 more years (2015 – 2017 ?)



MONSOON ONSET MONITORING AND ITS SOCIAL AND ECOSYSTEM IMPACTS (MOMSEI)

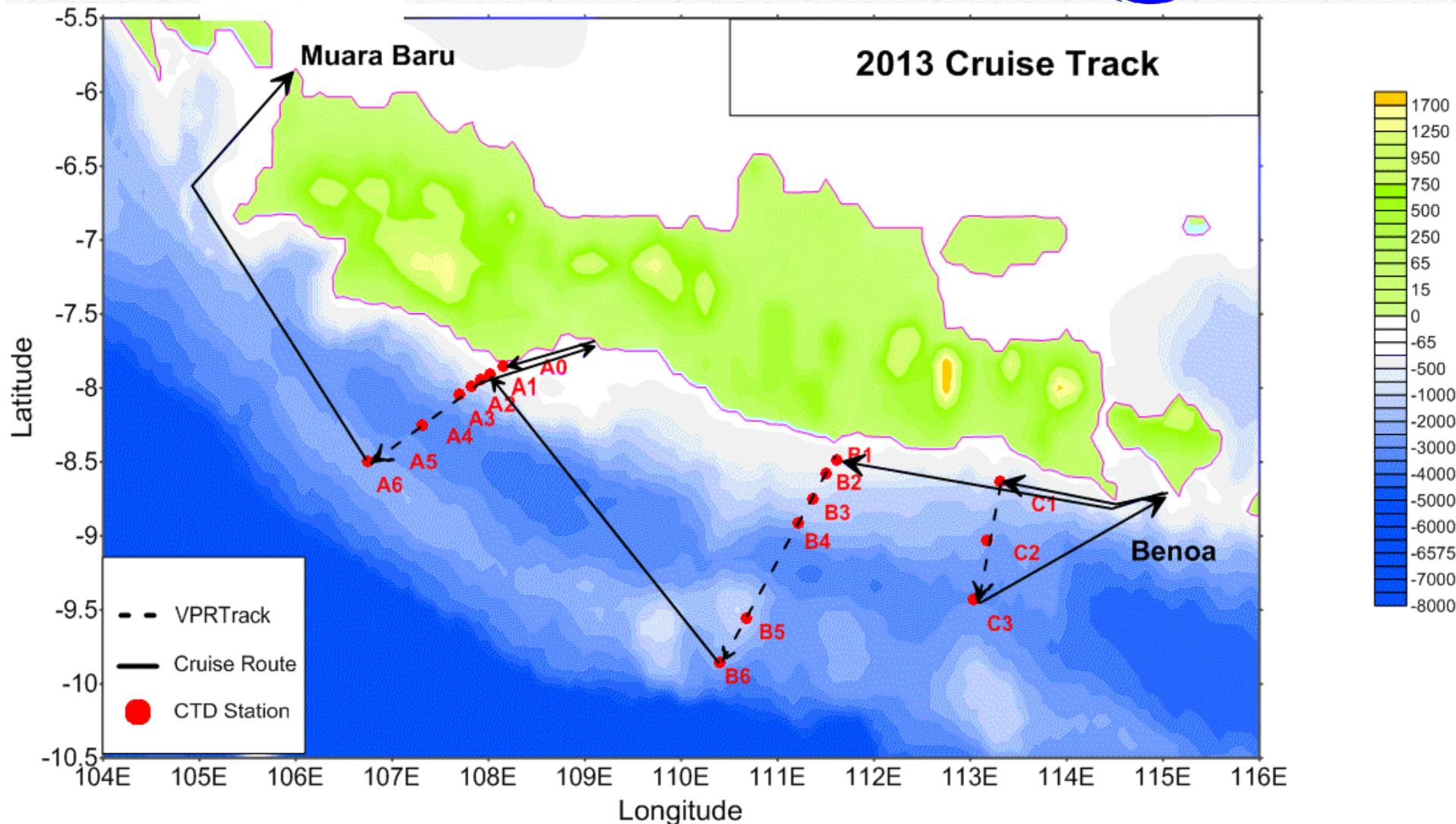


- Onset of dry season for Java
- Onset of upwelling
- Time window for salt industry
- High productive season off Java and Sumatra

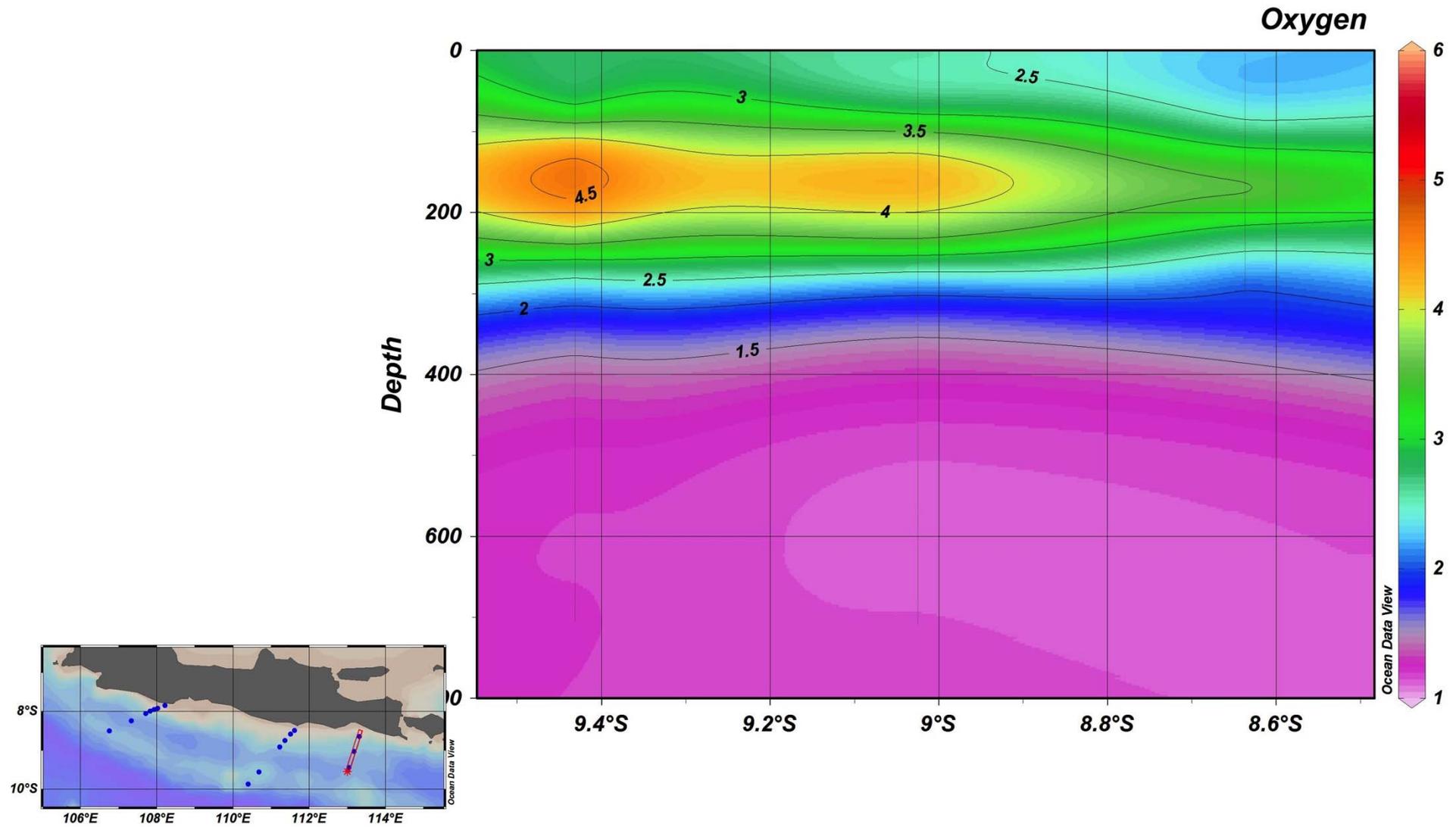


2013 - 2016

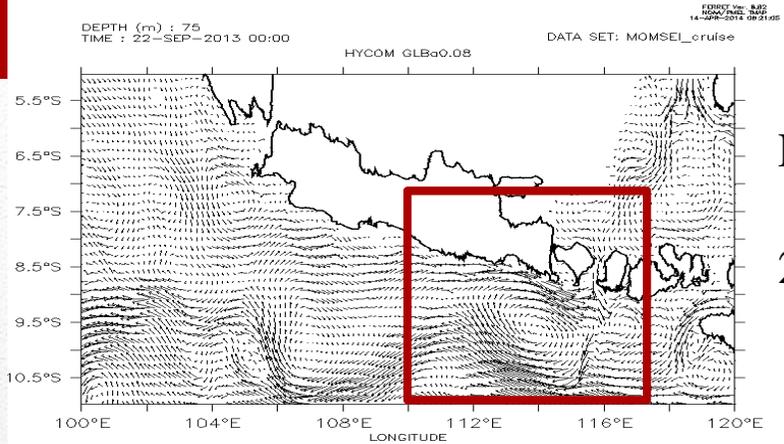
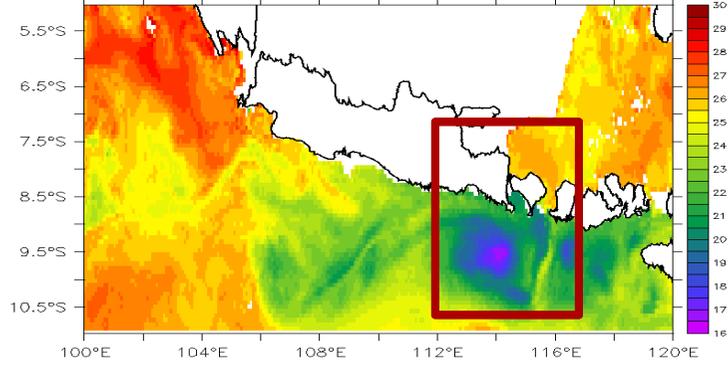
1st MOMSEI Cruise, 22 Sept – 1 Oct 2013



Oxygen Profile, Section C

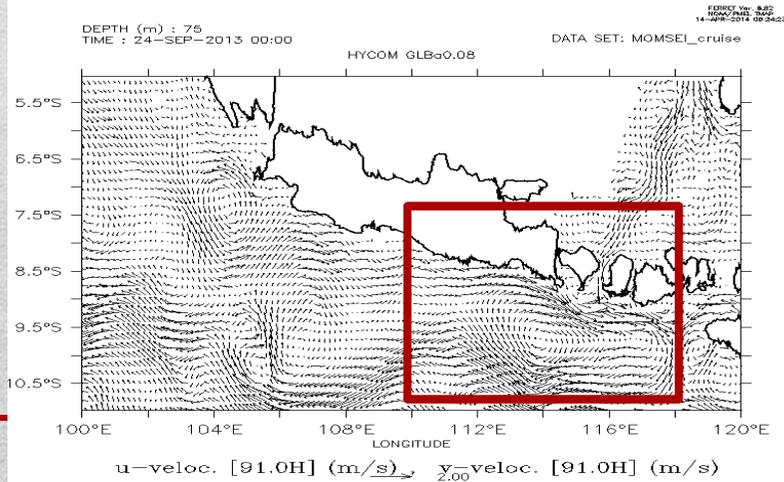
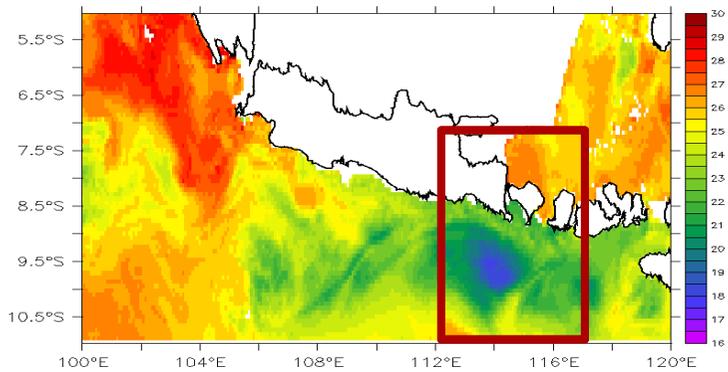
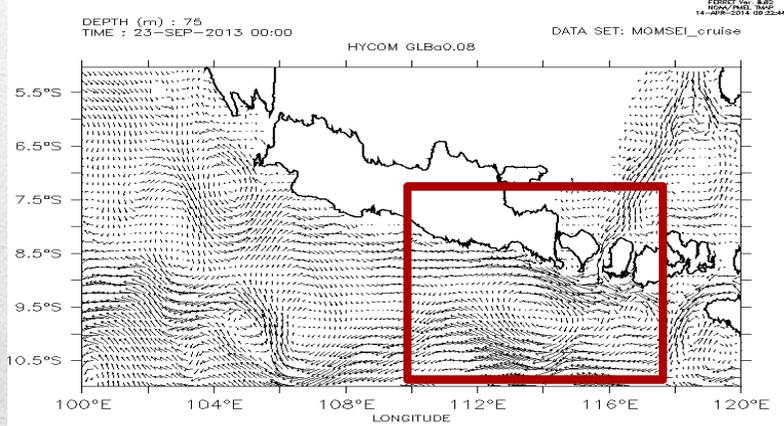
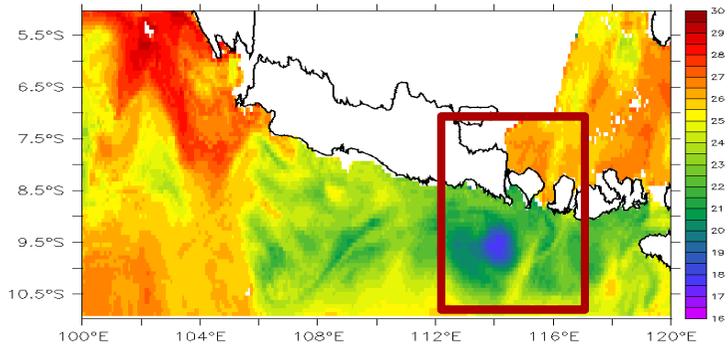


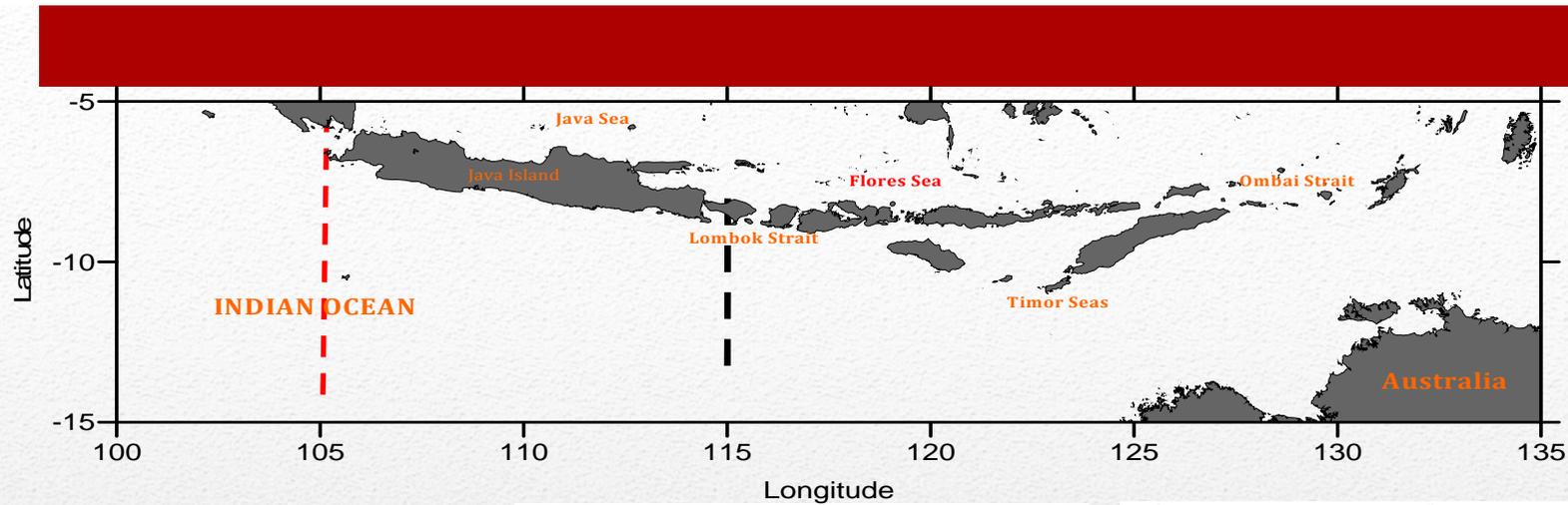
Temperature (d=75 m)



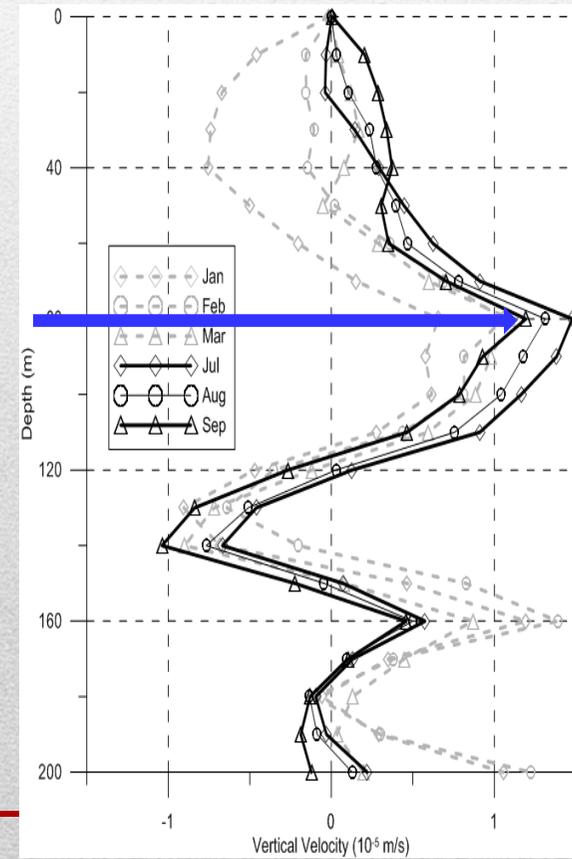
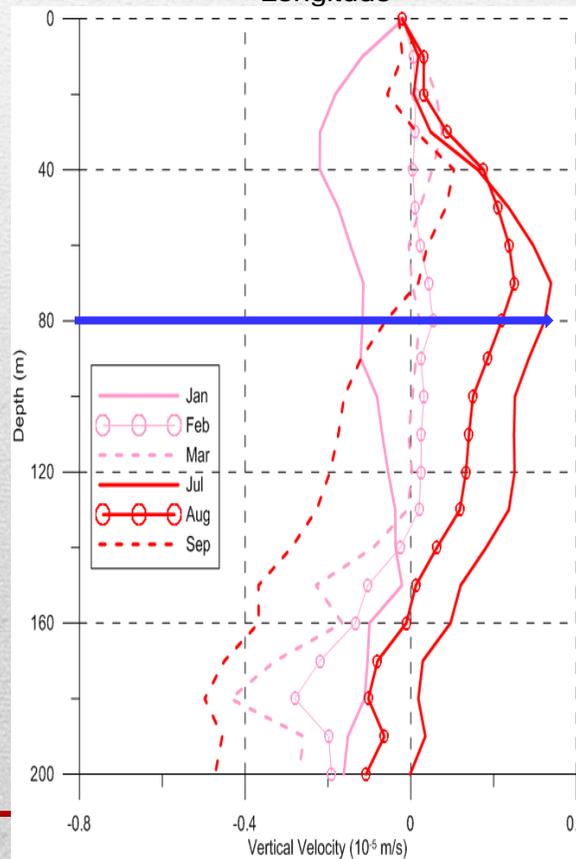
HYCOM data

22- 24 Sept 2013





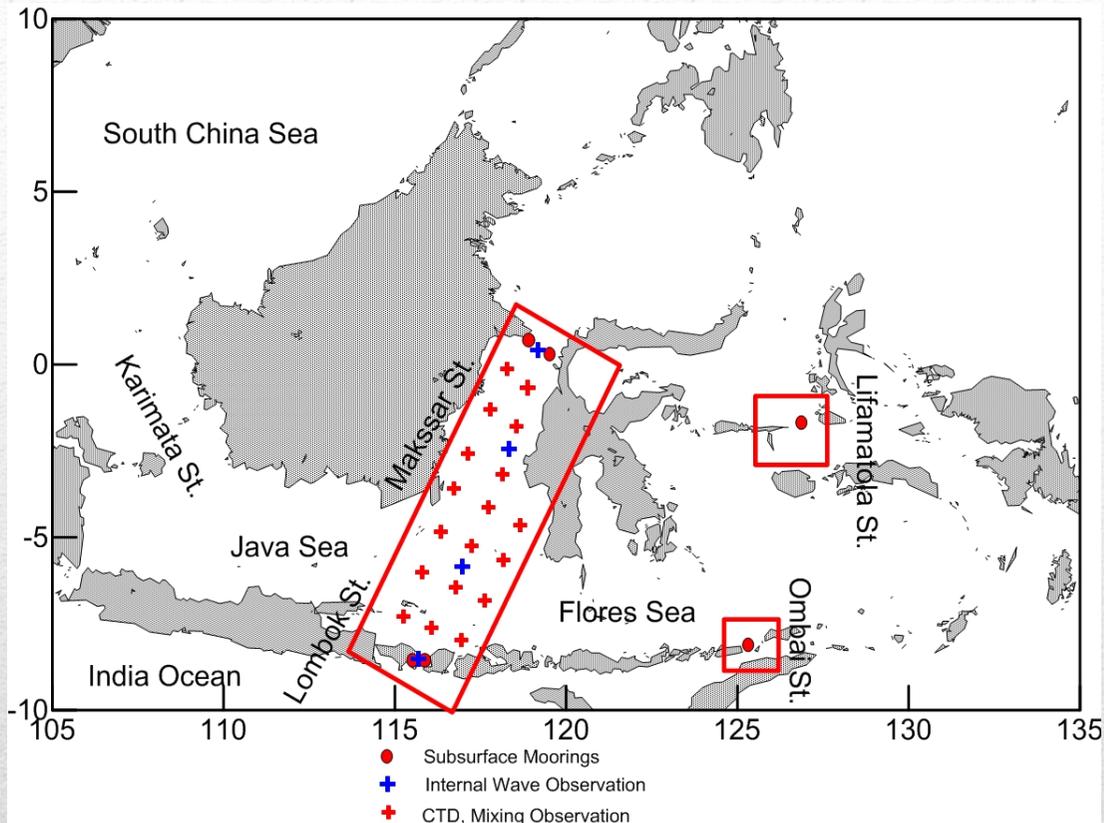
MASNUM
wave model
coupled with
POM model
1/6° x 1/6°
(Kuswardani ,
2012)



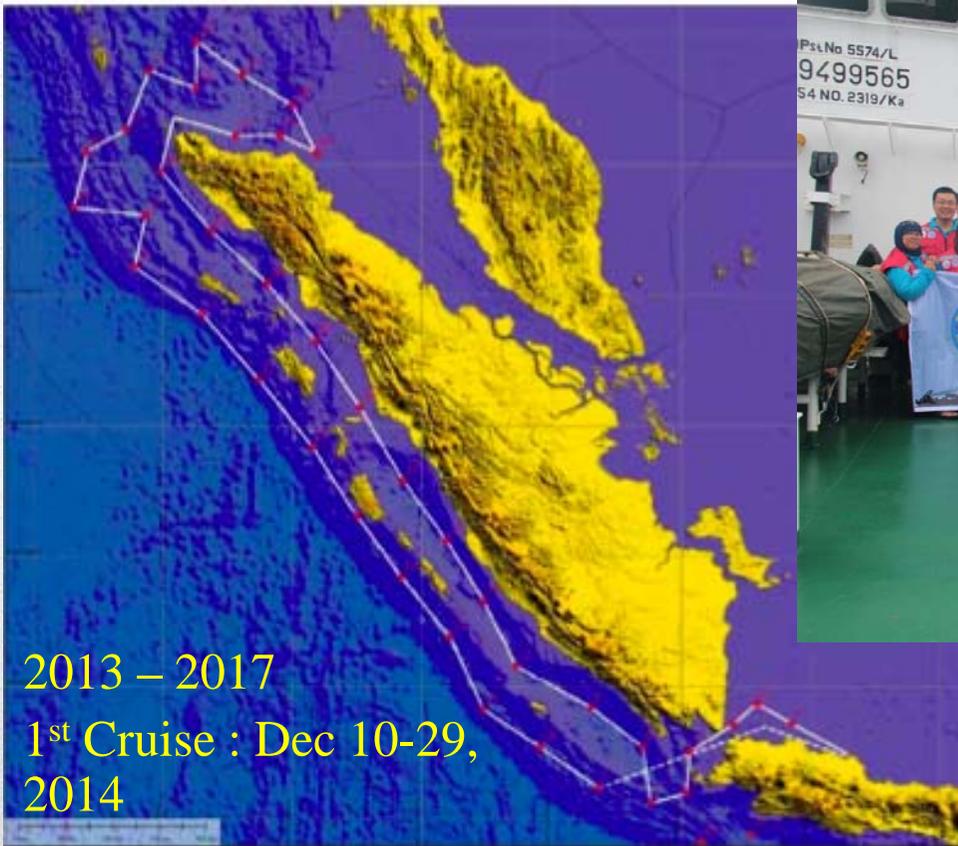
Vertical velocity profile (0 – 200 m)

- Eddies development structure
 1. generated by the ITF outflow from Lombok strait?
 2. Baroclinic instability from Lombok strait (jets?) ? fully generated by wind? Small Ekman Pumping in eastern part
 3. interact with SJC??

Questions



The Transport, Internal Waves and Mixing in the Indonesian Throughflow regions (TIMIT) and Impacts on Marine Ecosystem 2015 – 2018

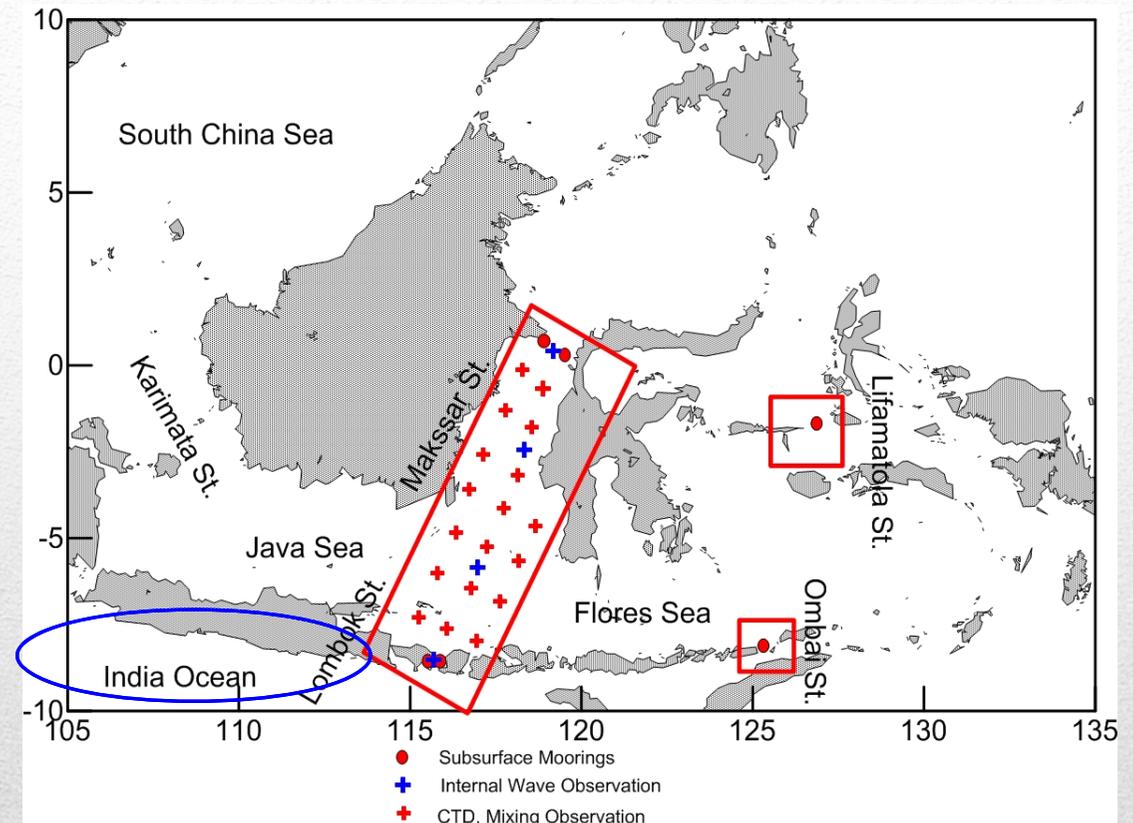


Benthic Records of Marine Environment, Climate, and Ecosystem in the Eastern Indian Ocean since the Last Deglaciation (BENTHIC)

1st TIMIT Cruise

2nd MOMSEI Cruise

May/June and Oct/Nov
2015 → series cruises



Plan 2015



THANK YOU
