

Years of the Maritime Continent (YMC)

Chidong Zhang NOAA Pacific Marine Environmental Laboratory Seattle WA

Indian Ocean Science Workshop September 11-13, 2017 Scripps Institution of Oceanography, La Jolla, CA

Indo-Pacific Maritime Continent (MC)





Gordon et al (2012)



Possible Mechanisms for the Barrier Effects:

- Block of surface evaporation by islands
- Topographic interference with the low-level flows
- Zonal variation in the mean state
- The diurnal cycle
- Air-sea interaction



Zhang and Ling (2017)

Coherence and Phase between Intraseasonal of Variability in SST and Precipitation Across the Indonesian Seas



Napitu et al (2015)

Years of the Maritime Continent (YMC)

Goal: Observing the weather-climate system of the Earth's largest archipelago to improve understanding and prediction of its local variability and global impact

Science Themes: Atmospheric Convection, Stratosphere-Troposphere Interaction, Upper-Ocean Processes and Air-Sea Interaction, Aerosol, Prediction Improvement

Main Activities: Two-Year Data Sharing, Field Campaigns, Modeling, Prediction and Application, Outreach and Capacity Building

International Participation: Australia, China, France, Germany, Indonesia, Japan, Korea, Malaysia, Philippines, Singapore, Taiwan, UK, US

WMO Endorsement:

- WWRP/Working Group on Tropical Meteorological Research
- WWRP/Working Group on Numerical Experimentation/MJO Task Force
- WWRP/THORPEX/-WCRP Subseasonal to Seasonal Prediction (S2S) Project
- Commission for Atmospheric Sciences
- CLIVAR Scientific Steering Group

Websites: http://www.bmkg.go.id/ymc/; http://www.jamstec.go.jp/ymc/

YMC Observing Networks



Mooring Deployment during YMC

YMC Intensive Observations



YMC Cruise R/V Ronald H. Brown May 2018

NOAA Ship Ronald H. Brown - Indian Ocean - FY 2018



YMC/IIOE-2 Cruise R/V Shang Yang Hong 2 2018

