

Years of the Maritime Continent (YMC)

< Purpose >

The goal of the “Years of the Maritime Continent (YMC)” is to expedite progress of improving understanding and prediction of local multi-scale variability of the MC weather-climate systems and its global impact through observations and modeling exercises. YMC itself provides a framework for the international collaboration under this umbrella. During the campaign, several coordinated intensive observations will be carried out to study key processes over and around the MC.

< Period >

- Phase-1: mid-2017 ~ early 2020
- Phase-2: early 2020 ~

< Key Five Science Themes >

- 1) Atmospheric Convection
 - Multi-scale variability (ex. diurnal cycle, MJO, monsoon)
vs. Complex land-sea distribution & topography
- 2) Upper Ocean Processes & Air-sea interaction
 - Indonesian Through Flow, Coastal Upwelling, IOD, etc.
- 3) Stratosphere-Troposphere Interaction
 - Dynamical coupling & their mass exchanges
- 4) Aerosols
 - Interaction with clouds, Role of Biomass burning aerosol, etc.
- 5) Prediction Improvement
 - Representation of key processes mentioned above and their prediction



< Five Main Activities >

- 1) Data sharing ... Archive & share 2-year in-situ/satellite observations and NWP products
- 2) Field Campaign ... Coordination of several intensive observations as well as long monitoring
- 3) Modeling ... Quantification of biases/errors of numerical models
- 4) Prediction & Applications ... Demonstrate skill improvement & Study optimization of prediction products
- 5) Outreach & Capacity Building ... Share the new knowledge & Train for the next generation

< Web site >

<https://www.jamstec.go.jp/ymc/>