

## Outline of Review

- 1) Timeline (major events/activities)
- 2) IOPs
- 3) Other remarks

*cf.* [Main Activities](#)

- 1) Data sharing
- 2) Field campaign
- 3) Modeling
- 4) Prediction and applications
- 5) Outreaching and capacity building

# Major Events/Activities

<2017> Mar 3rd Workshop in Malaysia  
 July Start of YMC Field Campaign  
 Aug Pre-SALICA cruise  
 Nov IOP in Sumatra/Indonesia  
 Dec SCSTIMX

1) IOPs have been started.  
 2) Campaign period has been extended to early 2020.

<2018> May PISTON (mooring)  
 July IOP in Philippines/Palau/Vietnam/Indonesia  
 Aug PISTON, SCSTIMX, etc. (+ CAMP<sup>2</sup>Ex virtual campaign)  
 Sept 1st ICTMAS (Int'l Conf. on Tropical Met. & Atmos. Sci.) in Bandung  
 Nov MAMOS & CSHOR

<2019> Feb 4th Workshop in Philippines  
 IOP in Indonesia Inland Seas

Today !!!

Sept CAMP<sup>2</sup>Ex, PISTON  
 Nov R/V Investigator  
 Dec TerraMaris

ELO, DIMOP, YMC-Banda Sea will start in 2019

<2020> Feb End of IOPs / Field Campaign Phase  
 Phase-2 ???

# Funded / Proposed IOPs

⑪ US-Philippines  
2018.07-08 CAMP<sup>2</sup>Ex (Aerosol)

As of June 2017

③ Taiwan  
2017.12  
2018.08 - 2018.10  
SCSTIMX (Monsoon)

⑤ US-Philippines  
2018.08-10 PISTON, SALICA (BSISO, DC)

② China  
2017.12 - 2018.02  
EIOURI (Upwelling)

⑨ US-Singapore-Malaysia  
2019/2020/2021.01  
MC-CARDIO (DC, MJO)

④ Japan-Philippines-Palau  
2018.07 - 2018.08  
YMC-BSM (BSISO)

⑦ US-UK-Indonesia  
2018.11 - 2019.02  
ELO (CCKW)

⑥ US-Indonesia  
2018.09 - 2019.08  
DIMOP (DC, MJO)

④' Japan-Indonesia-Viet Nam  
2018.07  
YMC-BSM (TTL)

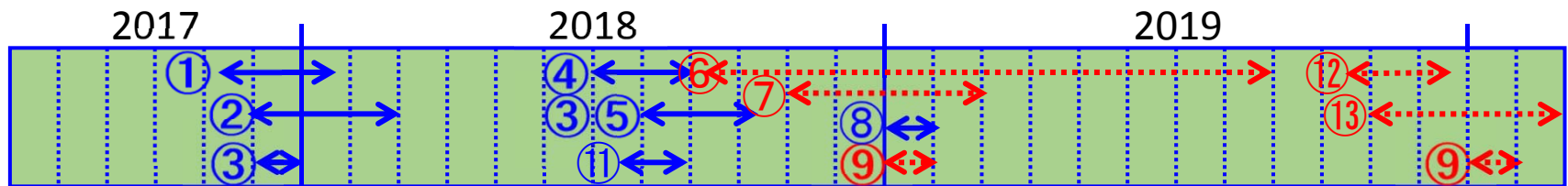
① Japan-Indonesia  
2017.11 - 2018.01  
Sumatra 2017 (DC, MJO)

⑬ UK-Australia-Indonesia  
2019.11 - 2020.02  
TerraMaris (DC, MJO)

⑧ US-Indonesia  
2019.01  
YMC-Banda Sea (Air-sea)

⑫ Australia-Indonesia  
2019.10 - 2019.12  
Sumatra 2019 (DC, MJO)

Note.  
Only "multi-national"  
IOPs are shown



# Funded IOPs

⑪ US-Philippines

2019.08-10 CAMP<sup>2</sup>Ex (Aerosol)

As of Feb. 2019

② China  
2017.12 - 2018.02  
EIOURI (Upwelling)

③ Taiwan  
2017.12  
2018.08 - 2018.10  
SCSTIMX (Monsoon)

⑤ US-Philippines  
2018.08-10, 2019.08-10  
PISTON, SALICA (BSISO, DC)

⑥ US-Indonesia  
2018.09 - 2019.08  
\* delayed \*  
DIMOP (DC, MJO)

④ Japan-Philippines-Palau  
2018.07 - 2018.08  
YMC-BSM (BSISO)

⑦ US-UK-Poland-Indonesia  
2018.11 - 2019.02  
\* delayed \*  
ELO (CCKW)

⑨ US-Indonesia  
2019.01 \* delayed \*  
YMC-Banda Sea (Air-sea)

④' Japan-Indonesia-Viet Nam  
2018.07  
YMC-BSM (TTL)

① Japan-Indonesia  
2017.11 - 2018.01  
Sumatra 2017 (DC, MJO)

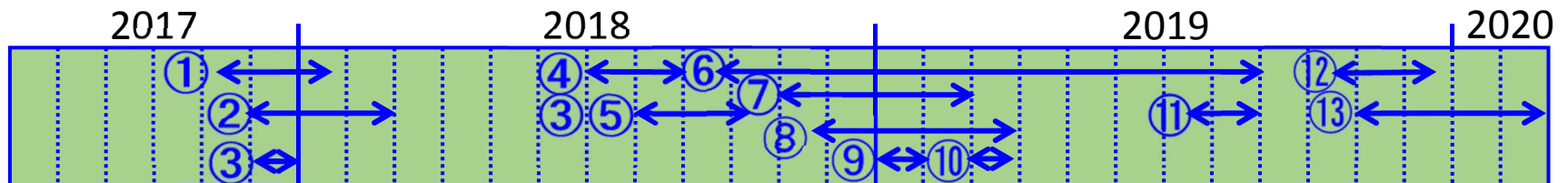
⑩ Japan-Indonesia  
2019.02 - 03  
Ocean Mixing (tidal mixing)

⑫ Australia-Indonesia  
2019.10 - 2019.12  
Sumatra 2019 (DC, MJO)

⑬ UK-Australia-Indonesia  
2019.11 - 2020.02  
TerraMaris (DC, MJO)

⑧ China-Australia  
2018.11 - 2019.03  
MAMOS & CSHOR  
(MJO, Monsoon)

Note.  
Only "multi-national"  
IOPs are shown



## Funded IOPs

⑪ US-Philippines  
2019.08-10 CAMP<sup>2</sup>Ex (Aerosol)

As of Feb. 2019

③ Taiwan  
2017.12  
2018.08 - 2018.10  
SCSTIMX (Monsoon)

⑤ US-Philippines  
2018.08-10, 2019.08-10  
PISTON, SALICA (BSISO, DC)

② China  
2017.12 - 2018.01  
EIOURI (Upwelling)

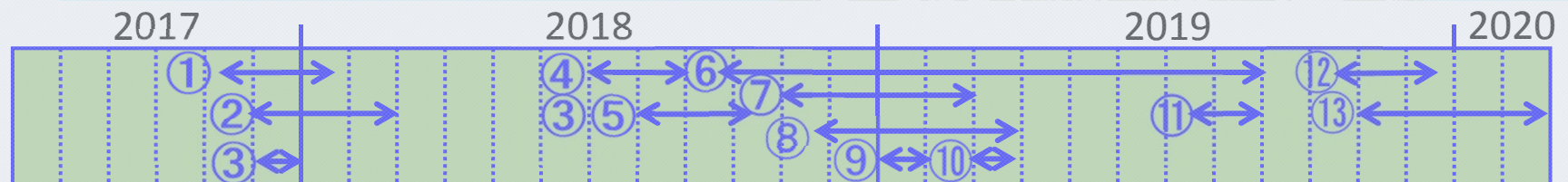
⑦ US-UK-Pol  
Indonesia  
2018.11 - 2019.01  
\* delayed \*  
ELO (CCKW)

① Japan-Indo  
2017.11 - 2018.01  
Sumatra 2017 (DC, MJO)

⑫ Australia-Indo  
2019.10 - 2020.01  
Sumatra 2019 (DC, MJO)

## Summary for IOPs

- 1) Most proposed campaigns have been funded.
- 2) But, even funded, some have not been conducted yet due to delayed logistic procedure for getting permission.
- 3) CAMP<sup>2</sup>Ex has been postponed from 2018 to 2019.
- 4) PISTON changed main observation area from SCS to TWP. For 2019, coordination with CAMP<sup>2</sup>Ex is planned again.
- 5) YMC welcomes new IOPs (MAMOS-CSHOR, Ocean Mixing).
- 6) Currently, no IOP is planned in Malaysia (southern SCS).



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# Outreaching & Capacity Building Activities : Examples

- 2017.07 Press release at BMKG, Indonesia
- 2017.12 Press release at IOP site arranged by BPPT, Indonesia
- 2018.06 US group organized training lectures on radar and data assimilation at BMKG
- 2018.07 Training for U Philippines students during YMC-BSM 2018 campaign at Laoag
- 2018.09 JAMSTEC provided lectures to LAPAN scientists for a week
- 2018.09 NOAA provided lectures to BMKG forecasters
- 2018.11 JAMSTEC invited BPPT & BMKG scientists for joint analysis for 3 weeks
- 2018.11 JAMSTEC invited U Philippines students for data analysis training
- 2019.02 JAMSTEC invited PAGASA staff for data analysis training

## Outreaching



## Field Training

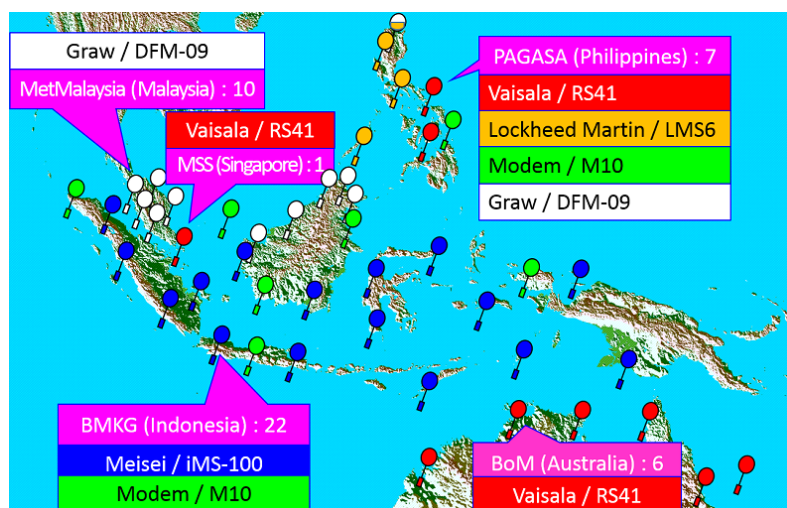


# Data Sharing

YMC adopts “timely release & free/open sharing data policy”.

All QCed data will be opened from YMC data archive centers. Basically observation PIs are requested to provide QCed data within 1 year after the campaign.

- 1) Some data of YMC-Sumatra 2017 have become available since Feb. 23.
- 2) Some of operational radiosonde data at BMKG site will be available soon.



The screenshot shows the YMC Data website interface. The main heading is “YMC” Years of the Maritime Continent 2017 - 2019. Below the heading is a map of the Maritime Continent with the text: “Observing the weather-climate system of Earth’s largest archipelago to improve understanding and prediction of its local variability and global impact.”

The website has a navigation menu on the left with the following items: Home, About, What’s New, Meetings, Campaigns, Data (highlighted with a red box), Publications, Links, Members Only, and Japanese Page.

The main content area is titled [YMC Data Policy] and includes the following sections:

- Intensive Observations**
  - Pre-YMC
  - YMC-Sumatra 2017
  - YMC-BSM 2018
- Operational Products**
  - NOAA/CPC CMORPH - Rainfall over the MC [data] [animation]. About CMORPH.
- Numerical Products**
  - Quick look at NICAM Forecast results
  - MC Austral Summer Climatology ver.1.0 by ARC Center of Excellence for Climate System Science (ARCCSS) and University of Melbourne (Period: 2004/05-2014/15)
- Useful links to previous relevant project data pages**
  - [AMIE]
  - [CINDY2011]
  - [DYNAMO]
  - [HARIMAU]

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