

Current status of operations of ASEANCOF

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World Meteorological Organization
Organisation météorologique mondiale

**WMO International Workshop on Global
Review of Regional Climate Outlook
Forums, Ecuador, 5 – 7 September 2017**

ASEANCOF background (1/2)

Covers Mainland SE Asia and the Maritime Continent

- 10 countries (Brunei, Cambodia, Indonesia, Lao, Malaysia, Myanmar, Philippines, Singapore, Thailand, Vietnam)
- complex terrain of mountains and islands

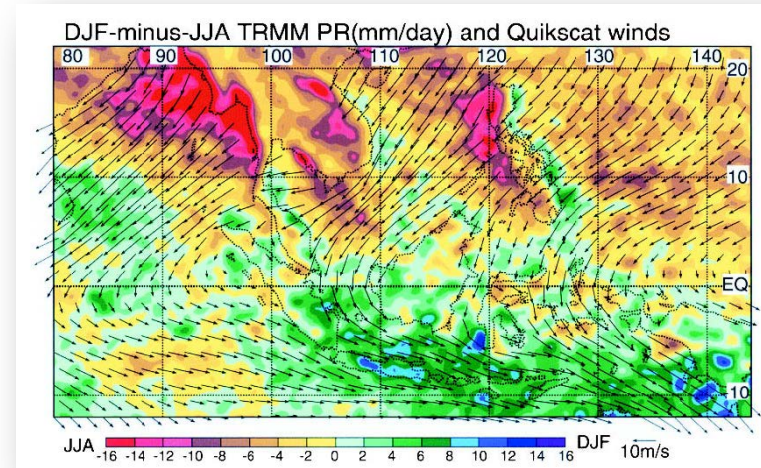
Two main seasons:

1. JJA Asian Summer monsoon (online)

In north of region, followed by gradual SE migration

2. DJF Winter monsoon (physical meeting)

While south of the equator, heavy rains in the NE regions make the season relevant for most countries

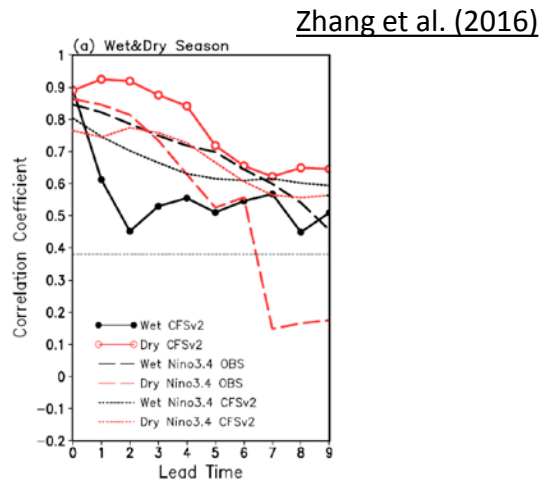


Chang et al. (2005a)

ASEANCOF background (2/2)

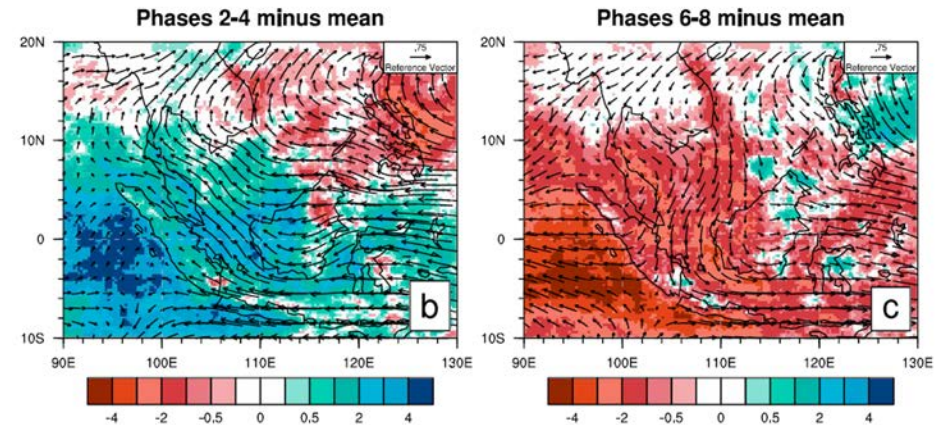
Sources of predictability:

ENSO



MJO

Xavier et al. (2014)



Brief history of ASEANCOF:

ASEANCOF-1 Singapore, December 2013 → ASEANCOF- 8 Online, May 2017
3 hosted by Singapore, 1 each by Indonesia and Philippines, 3 online

Sources of funding: WMO, USAID



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The ASEANCOF process (1/2)

Physical Meeting

Attending: NMHS, GPCs, End users

Input

- GPC predictions (presentations)
- NMHSs predictions (presentations)

Draft

- 1st draft prepared by organizers
- Review of previous forecast (subjective)
- Group discussion

Final

- Final product presented
- ENSO, IOD, monsoon
- Temperature & rainfall

Final product includes current conditions and outlook, consensus statement and map, climatology, and review of previous consensus outlook



No consistent method for national predictions

Often draw on pre-COF training

Agreement on ENSO, IOD is key for the temperature and rainfall predictions



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The ASEANCOF process (2/2)

Online

Attending: NMHSs

Input

- NMHSs email input/questionnaire for both predictions and review
- GPC predictions consulted

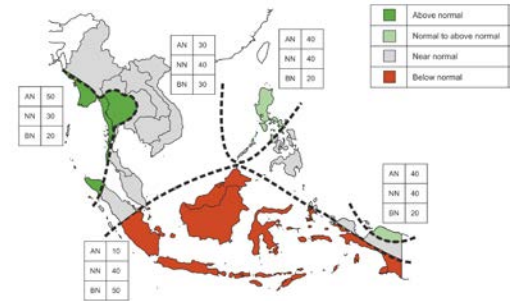
Draft

- 1st draft prepared by organizers
- Feedback via email
- Group chat for final changes

Final

- Predictions emailed/ASMC website
- ENSO, IOD, monsoon
- Temperature & rainfall

Final product includes current conditions and outlook, consensus statement and map, climatology, and review of previous consensus outlook



Can be challenging to get a response (timing)

Even less consistency between NMHSs predictions

Agreement on ENSO, IOD is key for the temperature and rainfall predictions



Capacity Development activities

Pre-COF training

Held before the physical meetings. **In high demand from NMHSs.** Topics include:

- Multi-model ensemble predictions
- Verification methods
- Tropical cyclone predictions
- Climate monitoring tools

Challenge is in continuation

Observational and model data, climate products

- Lack of model and observational data still an issue (including sharing data)
- Adequate capabilities for seasonal outlooks, although information about uncertainties and skill of products is lacking

SEA RCC-Network

- Starting demonstration phase

WMO RA V Southeast Asia (SEA) RCC-Network

Demonstration Phase

[RCC Functions](#) | [News & Events](#) | [Climate of Southeast Asia](#) | [Links](#)



User Involvement

Users involvement via attending forum from:

- Agriculture
- Health
- Water
- Disaster risk management

Users needs and evaluations are expressed through:

- National presentations (NMHSs) & also by end users
- Discussion at end of forum (both NMHSs and end users)
- (Survey) Only one NMHS conducts regular market study and demonstrates value to end users

Limitations:

- NMHSs are not always recognized as providing climate services
- Users require downscaled products
- How to interpret probabilistic forecasts

Room for further development in engaging and communicating with users



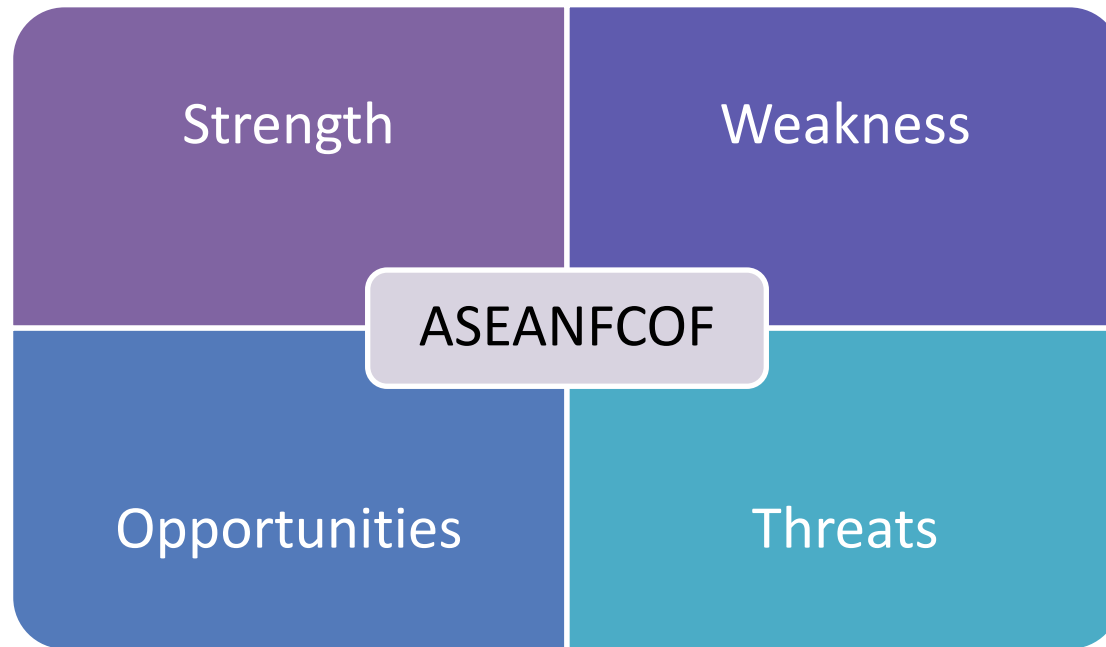
SWOT analysis

Sharing experiences between NMHSs

Sharing skills/tools GPCs

Staff availability

Data availability



Good predictive skill for region

Long term sustainable funding



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Way Forward (1/2)

1. SEA-RCC-Network

- Starting demonstration phase
- Opportunity for regional products

2. Online training materials

3. Review funding sources

- Joint funding from end users

4. “Best Practice”

- Lessons from regional workshop



Way Forward (2/2)

“Best Practice” Workshop on Climate Change Projections and Their Applications in ASEAN Countries proposed

- **Local climate change projections in a regional context**
 - To review existing regional climate change scenarios and issues arising from their use in impact and adaptation studies;
 - To develop best practice guidelines for the production of regional and national scenarios and their usage; and
 - To enhance regional networking and ensure better integrations of regional actors.
- Early 2018
- Organised by MSS/CCRS in partnership with SEA RCC-Network
- Prepared in coordination with Pacific region initiative proposed by CSIRO (Commonwealth Scientific and Industrial Research Organisation, Australia)



Thank you Merci



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