ASMC – a regional collaboration for improved weather and climate services in southeast Asia

Thea Turkington

Subseasonal and Seasonal Prediction

MRC, April 2018
ASMC background

ASMC- ASEAN Specialised Meteorological Centre
Established in 1993
Hosted by Meteorological Service Singapore
Objective:
• Monitor and assess land and forest fires, as well as transboundary haze
• Conduct seasonal outlooks and climate projections for the ASEAN region
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Weather

- Alerts/warnings (haze, wind, dry conditions)

Time from now:
- Hours
- Days
- Months
- Years
- Decades
- Centuries
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“Best Practice” Workshop on Climate Change Projections and Their Applications in ASEAN Countries

20-23rd March, Singapore

Aims:
• Review existing regional climate change scenarios and usage;
• To develop best practice guidelines for the production and usage;
• To enhance regional networking and ensure better integrations of regional actors.

Outcomes:
• A lot of good work being done in the region, but would benefit from a regional network to bring together information and provide guidance on how to use projections in an operational context;
• Need to make information more easy for end users to understand;
• A good dialogue is needed – providing climate projections/data is not enough
The ASEANCOF process

Physical Meeting
Attending: National Met Services, Global Modelling Centres (GPCs), End users

Input
- GPC predictions (presentations)
- National Met. predictions (presentations)

Draft
- 1st draft prepared by organizers
- Review of previous forecast
- Group discussion

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

Disseminated by National Met Services

Themes: Agriculture, Water, Disaster Risk Reduction
December-January-February Temperature 2016/17

Slightly above to above normal air temperatures are very likely to occur over much of Southeast Asia region for the upcoming Northern Hemisphere winter monsoon season (Dec-Jan-Feb), with the highest probabilities over the northern portions of Myanmar, Vietnam, and Lao. Near average air temperatures are predicted over Thailand and Philippines.

Produce a similar map for precipitation

Statement on is very important

ENSO & IOD
S2S-SEA Capability Building Programme
(Objectives & Activities)

• Aim to investigate the usefulness of 2 weeks – 2 months forecasts for our region.

• An innovative research programme to prepare for release of real time products.

• Involve all ASEAN NMSs who are interested and engage S2S international experts.

(Li and Robertson, 2015, MWR)

JJAS correlation score
S2S-SEA Workshop Series

Aug 2018

S2S-SEA I

Research

27 Feb – 3 Mar 2017

S2S-SEA II

S2S-SEA III

S2S-SEA IV
Thank you

Can read more about ASMC & ASEANCOF:
http://asmc.asean.org/asmc_asean_cof_about/
The ASEANCOF Journey (so far...)

ASEANCOF-1: Science, GPC and NMS representation. **2013 No users, no training.**
ASEANCOF-2: Skype **videoconference** ahead of 2014 SW Monsoon.
ASEANCOF-3: Held in MSS, Singapore, November 2014 and included **user participation** (water management sector). **One day training**
ASEANCOF-5: **MSS, Singapore in** November 2015. **Drought and DDR participation.** Training Sub-seasonal and seasonal applications to drought
ASEANCOF-6: **Email** correspondence ahead of 2016 SW monsoon
ASEANCOF-7: **PAGASA, Philippines**, November 2016: 3 day training sub seasonal & extremes
ASEANCOF-8: **Online**, May 2017 (questionnaire, email, & group chat)
SEA RCC-Network

In demonstration phase

Three nodes:

• Climate monitoring (PAGASA, Philippines)
• Climate data (BMKG, Indonesia)
  – SACA&D
• Long range forecasting (MSS, Singapore)
  – Rainfall, Temperature, Wind
  – TC outlook provided by PAGASA

In future, plan to add sub seasonal forecasts