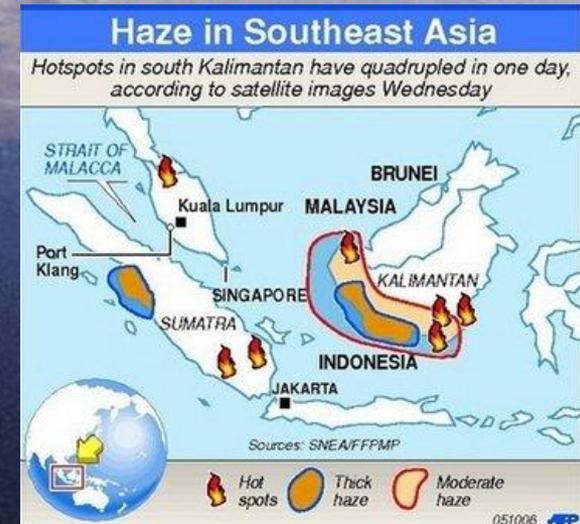
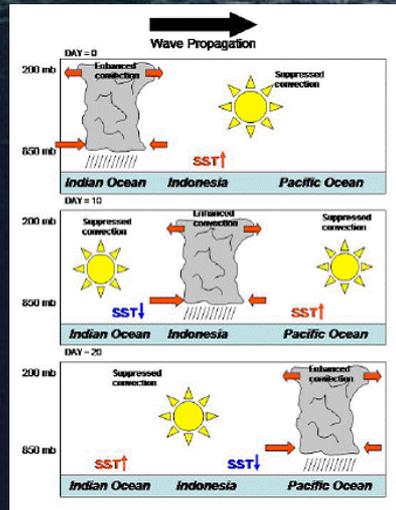


ACRE SE ASIA Workshop

Towards new weather and climate baselines for assessing weather and climate extremes, impacts and risks over SE Asia

Puri Pujangga, Universiti Kebangsaan Malaysia Bangi, Malaysia, June 2014



ACRE Southeast Asia

ACRE SE Asia's goal is to build capacity within SE Asian institutions, agencies and NMS to improve and extend historical instrumental, documentary and palaeo databases of SE Asian weather/climate, in order to contribute to the generation of high-quality, high-resolution historical weather reconstructions (reanalyses). These new baselines will allow scientists and policy makers across the region to address weather/climate extremes, impacts and risks in ways and over time spans not previously possible.

The Workshop

Asia-Pacific Network for Global Change Research CAPaBLE grant funding is supporting an Atmospheric Circulation Reconstructions over the Earth (ACRE) (<http://www.met-acre.org/>) regional focus workshop to launch ACRE SE Asia in June 2014 at a Universiti Kebangsaan Malaysia (UKM) Joint Workshop with the KNMI-BMKG Digitisasi Data Historis (DiDaH) project (<http://www.didah.org/>) plus scientific expertise from the World Meteorological Organisation (WMO) CCI/CLIVAR/JCOMM Expert Team on Climate Change Detection and Indices (ETCCDI).

Workshop Aims and Objectives

To 1) Engage a wide range of researchers across SE Asia with ACRE's goal of recovering long term observational data 2) Provide the basis for training in data rescue, scanning and digitisation tools and techniques for historical and documentary weather observations from regional archives. 3) Encourage open data sharing between National Meteorological Services (NMS). 4) Provide the basis for the climate applications community (eg. water, agricultural, environmental sectors) and policy makers across the region to access and utilise the new high resolution databases and reanalysis outputs developed by the project.

Expected Outcomes

- A new, longer data series, spatial weather reconstructions and reanalysis baselines, allowing current and future projections of weather and climate extremes and risks (typhoons, heat waves, heavy precipitation, storms, droughts, etc.), and their socio economic impacts to be analysed and assessed in a longer historical context.
 - Awareness of the significance and uses of historical, documentary and palaeoclimatic data, and how the process of imaging and digitisation will not only preserve an invaluable, fragile and endangered resource, but enable these data to be accessible and usable, both regionally and internationally.
 - Closer collaboration with:
 - the WMO CCI/CLIVAR/JCOMM ETCCDI and APEC user/policy/applications specialists to build on the results from their various data workshops across the region
 - DiDaH and institutions, agencies and NMS across the region to extend, expand and utilise the Southeast Asian Climate Assessment and Dataset (SACA&D) portal as a major weather and climate data platform/portal for wider access to the new baselines
 - the UK Met Office Hadley Centre PRECIS (Providing REGIONAL Climates for Impacts Studies) modelling team to downscale reanalyses output to finer spatial resolution, providing higher resolution outputs for a whole range of user needs
 - the Met Office (MO)-University of Southern Queensland (USQ) (MO-USQ) AgriStorm collaboration plus MO and Meteorological Service Singapore (MSS) activities to provide the long-term historical databases and reanalyses outputs of weather and climate variables for high resolution modelling, probabilistic assessment of climate changes from a large model ensemble, and information on both near-term and centennial timescales
- ACRE's adjacent regional ACRE Pacific, ACRE India and ACRE China foci