

Southeast Asian Climate

Assessment and Dataset

October 2015



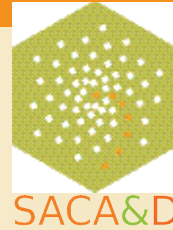
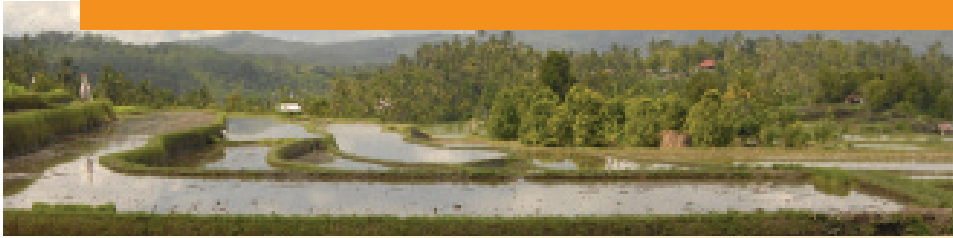
More information

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Project website: <http://sacad.database.bmg.go.id>

Jointly operated and maintained by BMKG and KNMI



Goal

SACA&D offers science-based climate services for assessing observed changes in climate extremes in the Southeast Asian region and aims to serve stakeholders from e.g. the food-security sector. These services rely on high-quality observational datasets provided by the participants.

Participants

23 National Meteorological and Hydrological Services, observatories and universities mainly from Southeast Asia.

Coordination

Jointly coordinated by the Badan Meteorologi, Klimatologi, dan Geofisika (BMKG, Indonesia) and the Royal Netherlands Meteorological Institute (KNMI, The Netherlands).

Drivers

SACA&D has been initiated to provide a data portal for digitized data generated within the Digitisasi Data Historis (DiDaH) project. DiDaH focusses on the digitization and use of high-resolution historical climate data from Indonesia over the period 1850-present. With the modern meteorological data from the BMKG archives and from other countries, SACA&D aims to serve as a regional centre for climate data.

Global embedding

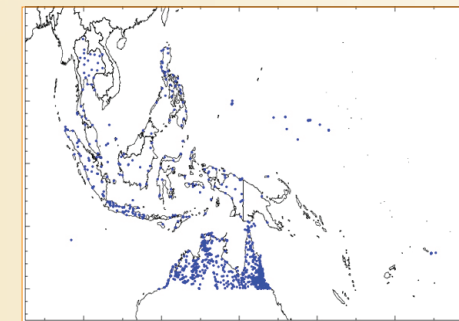
SACA&D is part of the International Climate Assessment & Dataset (ICA&D) which is part of a pilot project in the framework of the Global Framework for Climate Services (GFCS). SACA&D has direct ties with its European counterpart ECA&D (www.ecad.eu), its Latin American counterpart LACA&D (lacad.ciifn.org) and its West African counterpart WACA&D.

SACA&D services comprise:

- data gathering (long-term daily observational series from meteorological stations)
- archiving and storage in a centralized relational database
- quality control and homogeneity checks
- analysis (calculation of indices, particularly related to climate extremes)

SACA&D products include:

- daily dataset built up from 5914 series of observations for 10 essential climate variables (incl. temperature and precipitation) observed at 3811 meteorological stations in 15 countries (34% publicly available)
- meta information on stations and time series homogeneity
- maps and plots for changes in extremes in the form of trends, anomalies and climatologies for 45 indices



SACA&D Station Network