

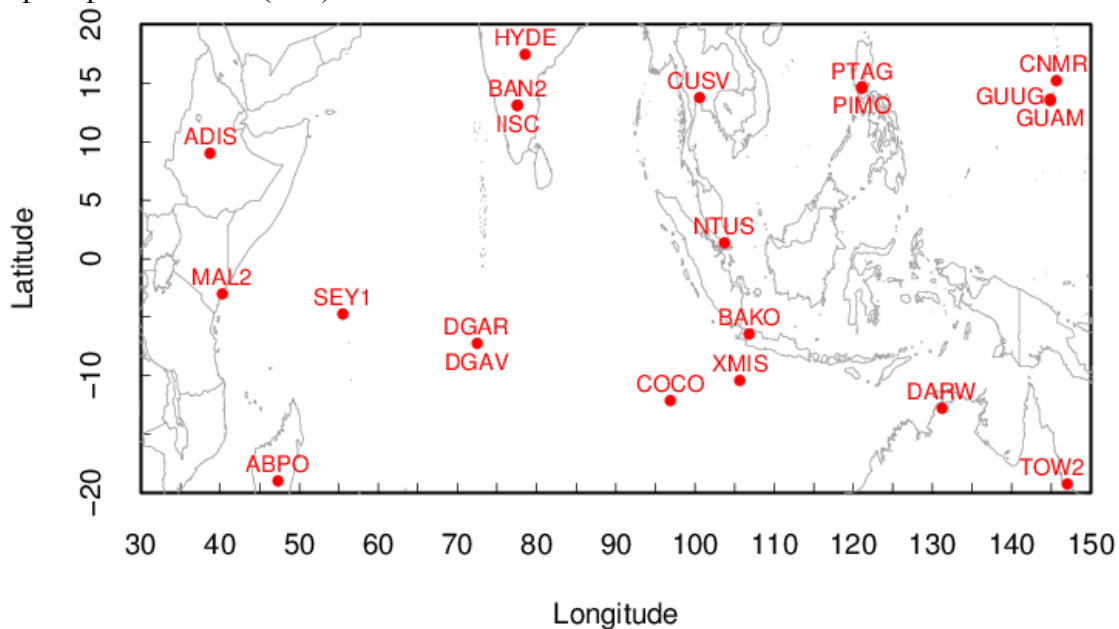
A 2-hourly ground-based GPS Precipitable Water (PW) dataset for DYNAMO

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The DYNAMO field campaign took place over Indian Ocean from October 1, 2011 to March 30, 2012. This dataset contains the 2-hourly ground-based GPS-PW data during this period from 21 GPS stations in the DYNAMO region (20°S-20°N and 30°E-150°E). It is extracted from the “NCAR Global, 2-hourly Ground-Based GPS Precipitable Water” dataset (available on <http://rda.ucar.edu/datasets/ds721.1/>). See Wang et al. (2007) on more details on the dataset. Please make reference to Wang et al. (2007) when the dataset is used for publication.

The map of the stations is shown in Figure below. The GPS station list with 4-letter station name, latitude, longitude and elevation (in meter) is given in the file "GPSstn.in.DYNAMO.region.txt". More information about each station can be found on <http://www.igs.org/network/netindex.html>. Each station has its own file with the following data format:

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Year mmdd hh Ps ZTD ZHD ZWD Tm PW
year: years
mmdd: month and day
hh: 2-hourly (1, 3, 5, ..., 23UTC)
Ps: surface pressure (hPa)
ZTD: zenith tropospheric delay (mm)
ZDD: zenith hydrostatic delay (mm)
ZWD: zenith wet delay (mm)
Tm: atmospheric weighted-mean temperature (K)
PW: precipitable water (mm)
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Wang, J., L. Zhang, A. Dai, T. Van Hove, and J. Van Baelen, 2007: A near-global, 8-year, 2-hourly atmospheric precipitable water dataset from ground-based GPS measurements. *J. Geophys. Res.*, **112**, D11107 (DOI: 10.1029/2006JD007529).