

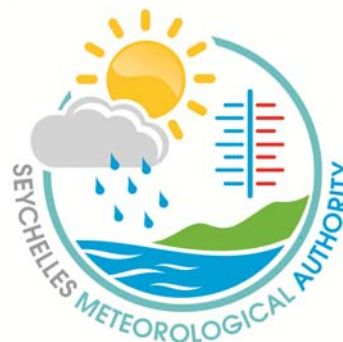


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COMMISSION DE
L'OcéAN INDIEN



Data sets for SWIOCOF-5

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*SWIOCOF-5, 19 to 23 September 2016
Seychelles*

SST

- ERSST data : Extended Reconstructed Sea Surface Temperature

<http://www.esrl.noaa.gov/psd/data/gridded/data.noaa.ersst.html>

- Grid point reconstitution of SSTs between 1880 until now (res. 2x 2)
- Using satellite and local observations
 - > 1979-2016 dataset (global domain) for this forum

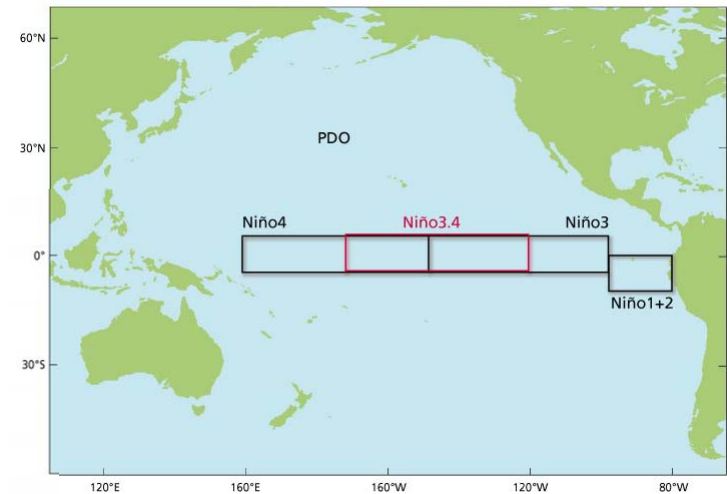
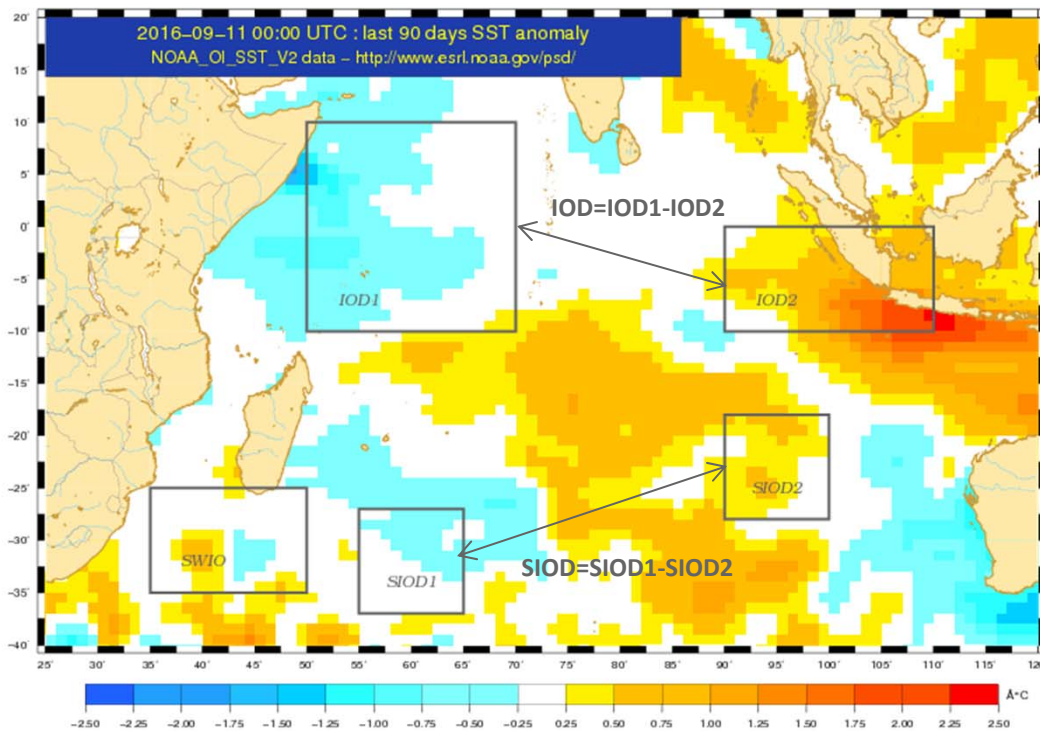
- ERA-interim data (ECMWF)

- 1979-2015 (res. 2.5*2.5)
 - > regional domain (10N/-50S/20E/110E)



SST Indices

- Pacific : ENSO : Niño3.4, Niño4, Niño3, Niño1+2
- Indian Ocean : IOD, SIOD, SWIO



RE-ANALYSED ATMOSPHERIC FIELDS

- ERA-interim reanalysis (ECMWF) ; 1979-2015 period
 - ✓ regional domain (10N/-50S/20E/110E)
 - ✓ <http://www.ecmwf.int/research/era/do/get/era-interim>
 - ✓ Available fields :

T2M	Air temperature (2m)
PREC	Precipitation
PMER	Mean Sea Level Pressure
U850	Zonal wind component (850 hPa)
V850	Meridian wind component (850 hPa)
U200	Zonal wind component (200 hPa)
PV200	Velocity Potential (200 hPa)
TCWV	Total Column of Water Vapor

Meteo-France (System 5) and ECMWF (System 4) models

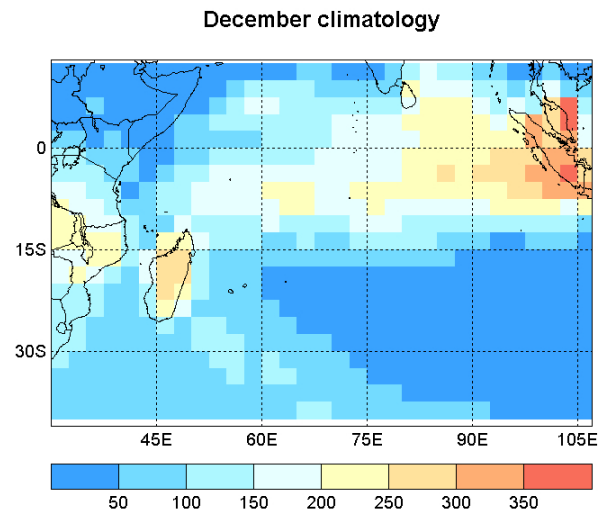
- Hindcast :
 - ECMWF : 1981-2010
 - MF : 1991-2014
- Forecast
 - OND2016, NDJ2016

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TCWV (only ECMWF)	Total Column of Water Vapor

PRECIPITATIONS

□ Gridded data

- ✓ GPCP : grid point data, 2.5° resolution, global domain (<http://precip.gsfc.nasa.gov/>) ; monthly data 1979-2014
- ✓ **Estimation** from satellite observation ; regular spatial coverage
- ✓ Horizontal resolution consistent with seasonal forecast models



PRECIPITATIONS

□ Local data (stations)

- National monthly and seasonal data sets from standard rain and temperature gauge network (total rain amount series or index series as number of days exceeding 1mm or 10mm, Mean temperatures)
- Datasets prepared by participants :
 - Comores :
 - Madagascar :
 - Maurice :
 - Réunion + Mayotte + Iles éparses :
 - Seychelles :
 - Tanzania :
 - Mozambique
 - South Africa



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SWIO Cyclone historical data :

Reunion RSMC best-track data set (1978/1979 → 2015/2016)

- Number of tropical storm and tropical cyclones (1978/1979 → 2015/2016)
- Number of days with activity (TS or TC)
- ACE : Accumulated Cyclone Energy (starts 1984/1985 season)
- Zonal and Meridian track component
- Number of cyclo-genesis for 3 sub-basin areas

