

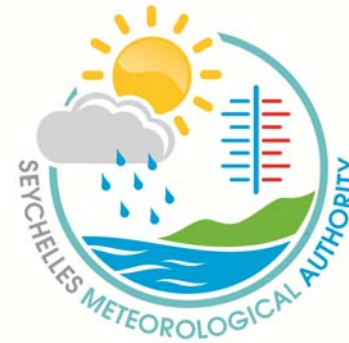


Environment and  
Climate Change Canada

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Changement climatique Canada



COMMISSION DE  
L'OCEAN INDIEN



# Reunion Island Precipitation Seasonal Forecast Oct. – Dec. 2016

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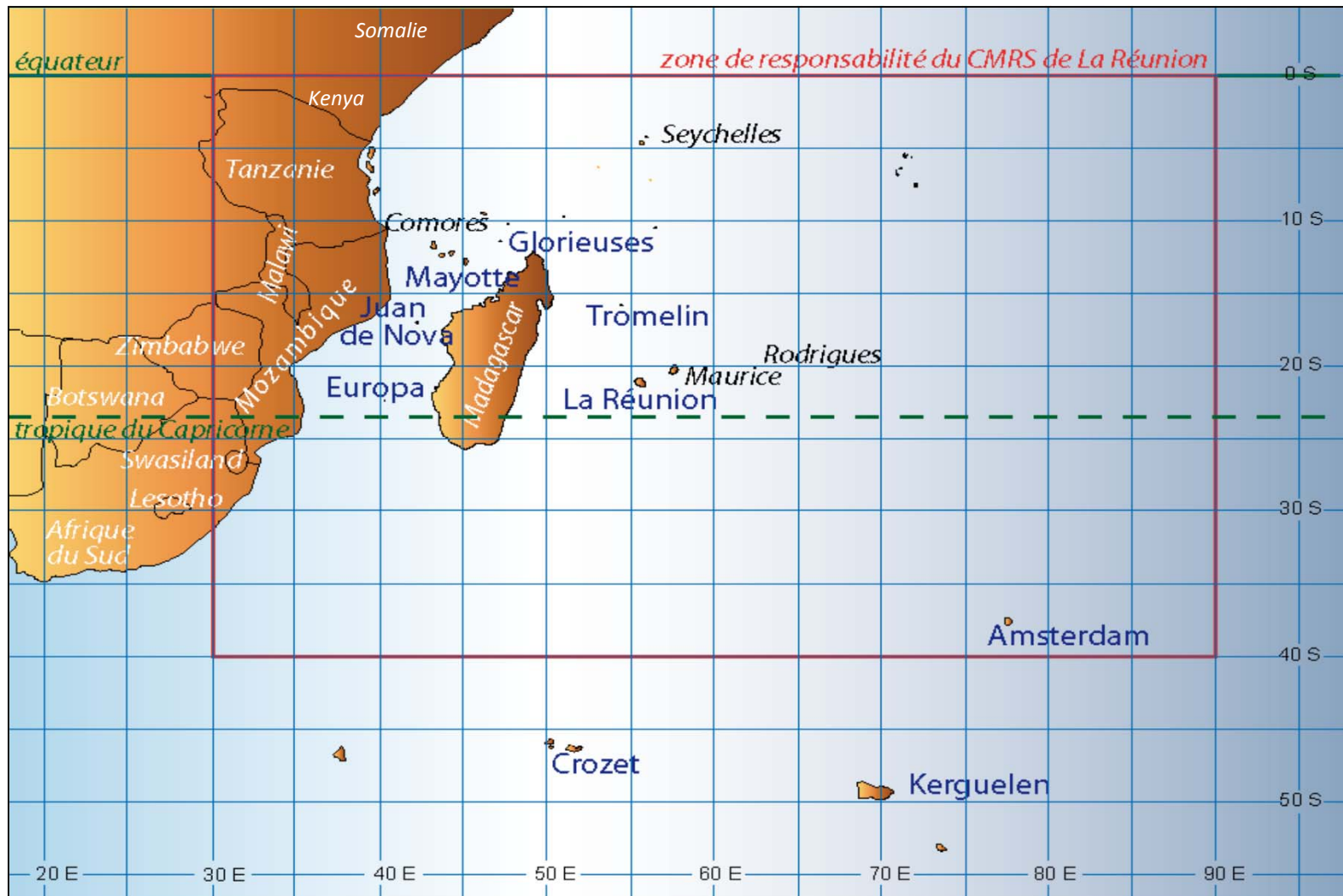
Guillaume JUMAUX

*Météo-France – Indian Ocean*

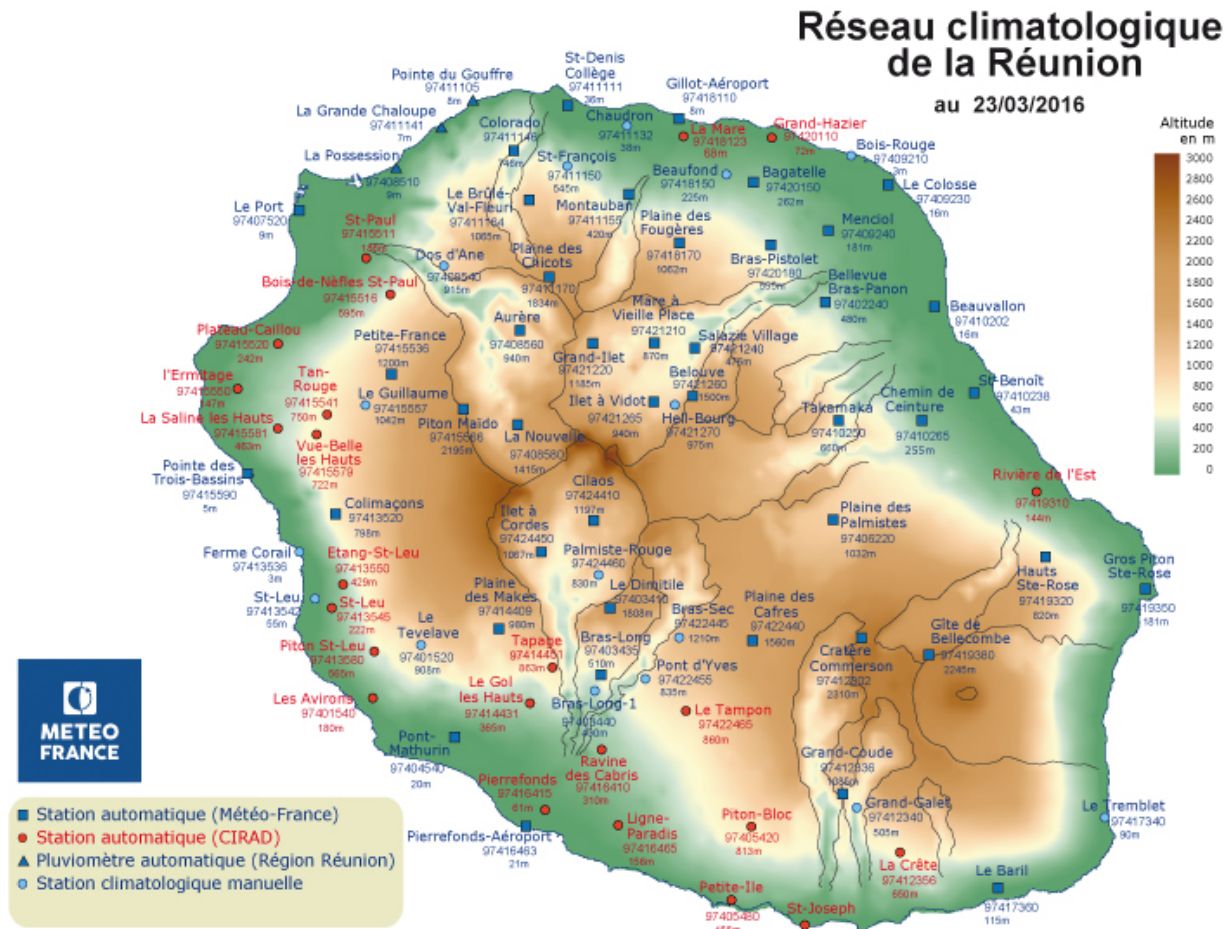
*Climatology Division*

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

# Reunion island : Geographical situation



# Reunion island : Stations



## Downscaling models with good skills on Reunion Island

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Large scale parameter (predictor) :

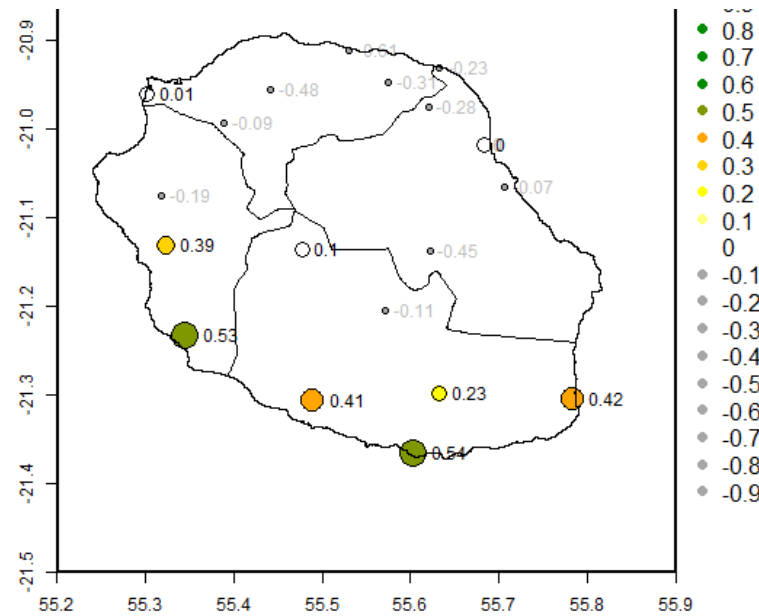
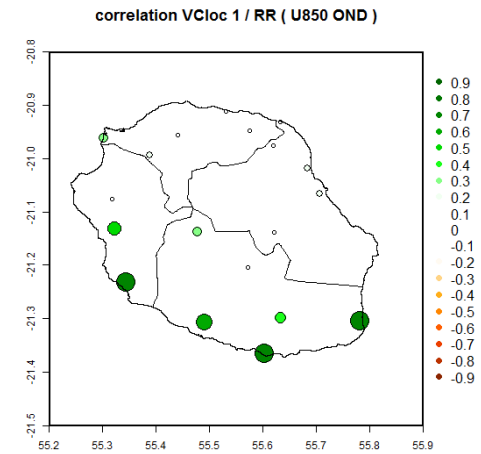
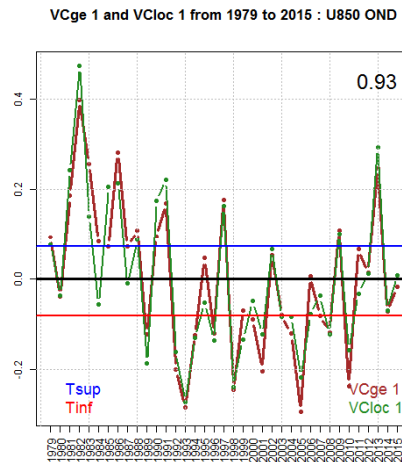
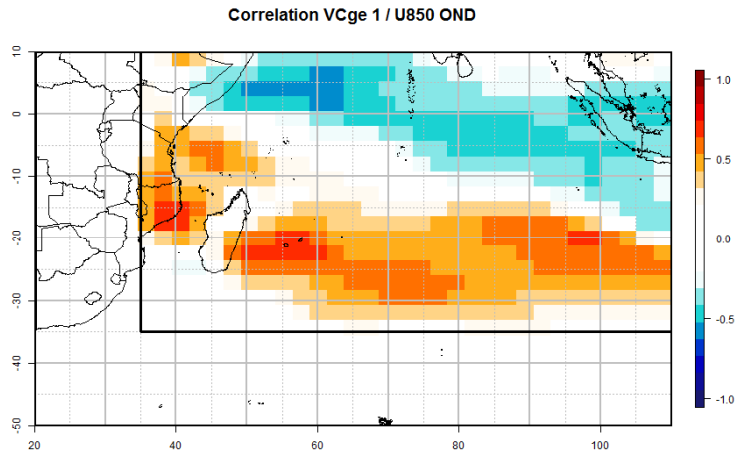
- Mean Sea Level Pressure
- Upper and Lower zonal wind
- Sea Surface Temperature

Local parameter :

- 3 months cumulated amount of rainfall on Reunion Island

# Downscaling models : an example

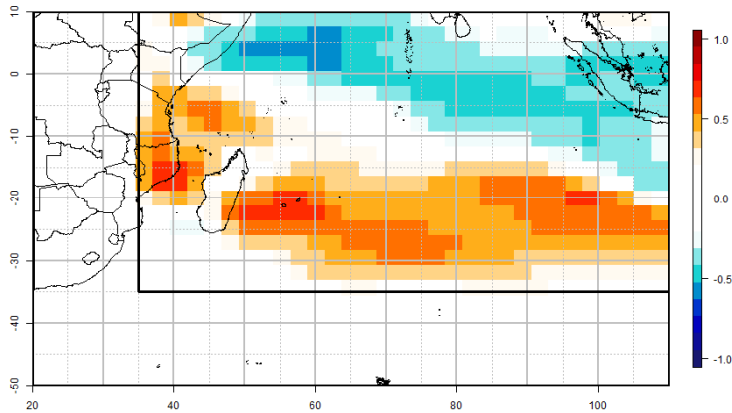
## From Lower zonal wind (850 hPa) to Reunion precipitation



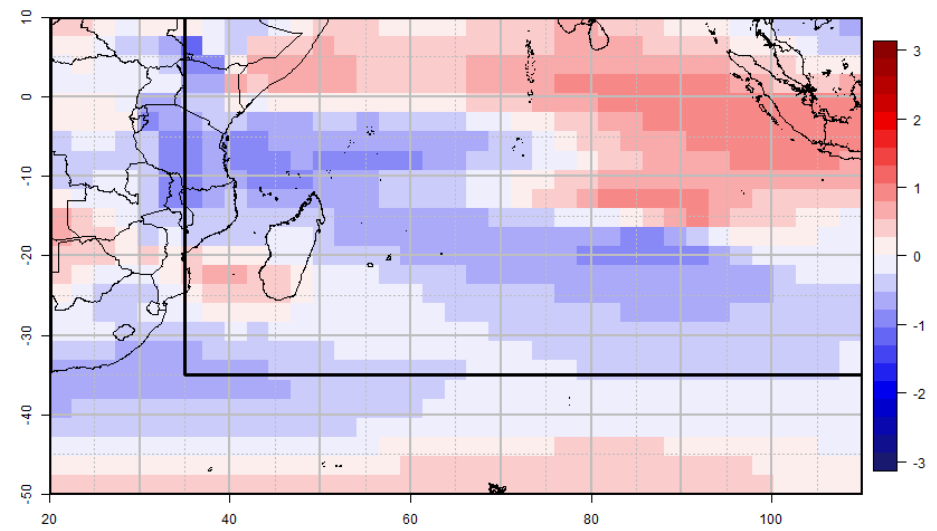
# Downscaling models : an example

## From Lower zonal wind (850 hPa) to Reunion precipitation

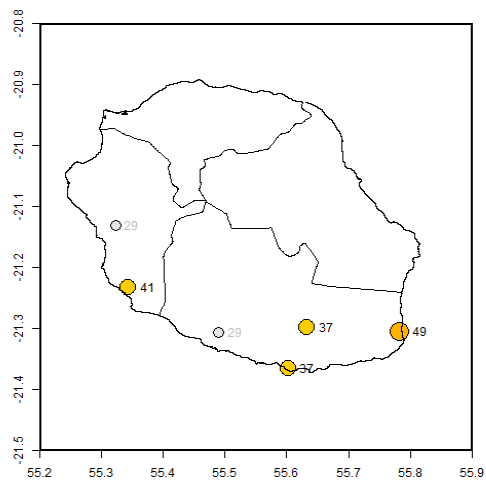
Correlation VCge 1 / U850 OND



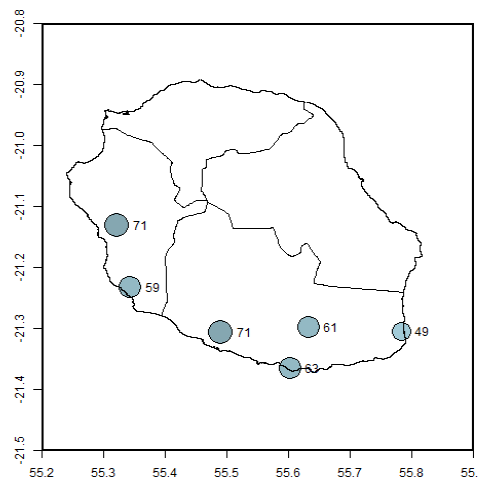
Forecast ARP U850 OND 2016



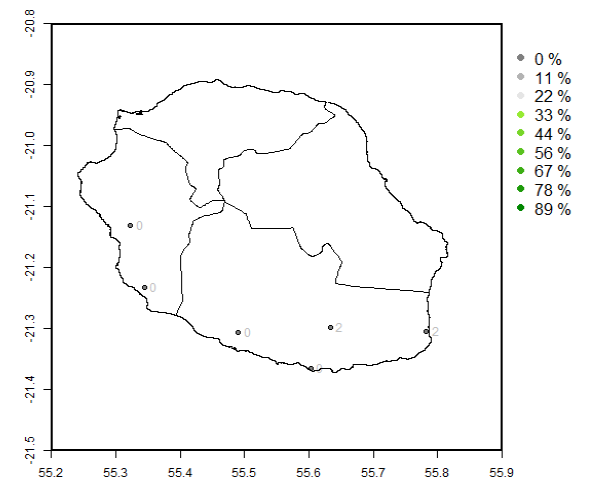
SEASONAL FORECAST : BELOW normal



SEASONAL FORECAST : NORMAL



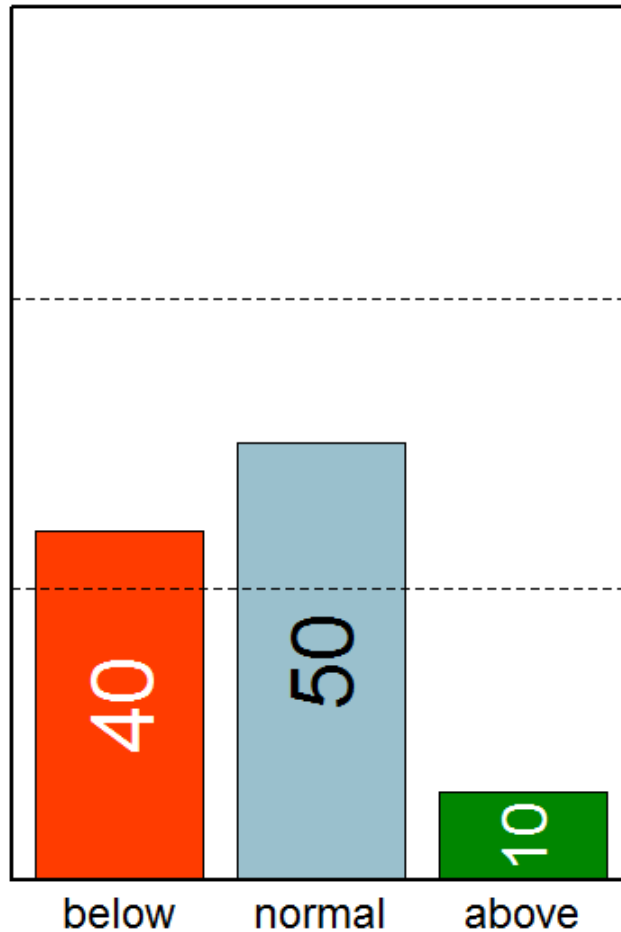
SEASONAL FORECAST ABOVE normal



## An exemple : Downscaling models synthesis

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### Precipitation REUNION



We have to keep in mind that the last couple of months were dry in some parts of Reunion Island.  
So water ressource could be an issue at the end of December.