DiganaVillage,Sri Lanka - Male,Maldives - New York,USA.

Phone: (+94) 81-2376746 (SL), (+960) 77880(MV)

Maldives Site <a href="http://www.tropicalclimate.org/maldives">http://www.tropicalclimate.org/maldives</a>

# Experimental Climate Monitoring and Prediction for the Maldives -September 2014

Prepared by Staff from Foundation for Environment, Climate and Technology, Sri Lanka and USA, Maldives Meteorological Service, and International Research Institute for Climate and Society

## 9 September 2014

**FECT Maldives website** 

www.tropicalclimate.org/ maldives

**FECT Maldives blog** 

www.fectmv.blogspot.com

Follow news of FECT at our web site

www.climate.lk

## **PACIFIC SEAS STATE**

#### September 4, 2014

During July through August the observed ENSO conditions were neutral. Most of the ENSO prediction models indicate warming to

El Niño levels coming around early northern fall, peaking at weak strength during winter 2014-15 and lasting into the first few months of 2015.

(Text Courtesy IRI)

## INDIAN OCEAN STATE

## Sep 9, 2014

More than 1<sup>0</sup> C above average sea surface temperature was observed around Maldives.

#### Highlights<sup>2</sup>

The northern and central islands of the Maldives garnered their highest monthly rainfall in August for 2014. Despite this the cumulative deficit of rainfall continues to grow and currently the amount of this deficit has grown past 500 mm. In southern islands the deficit has become more significant.

#### Summary<sup>2</sup>

#### **CLIMATOLOGY**

**Monthly Climatology:** During September and October Northern islands receive rainfall up to 100 mm and the rainfall increases towards Southern islands of the country which receive up to 250 mm of rainfall. Rainfall in the southern islands shall decrease down to 200 mm in November and December.

#### MONITORING

**Weekly Monitoring:** On the  $31^{st}$  August and  $1^{st}$  of September no rainfall was observed in any part of Maldives. From  $2^{nd}$  onwards rainfall was observed in northern and central islands with rainfall reaching a maximum of 30 mm on the  $2^{nd}$  and decreasing gradually thereafter.

**Monthly and Seasonal Monitoring:** The entire country received higher precipitation than previous three months during August 2014. In northern and central islands the amount of rainfall received in August is the highest this year. Despite this the total rainfall deficit in this region continues to increase. In southern islands a lower than expected rainfall contributed to an emerging rainfall deficit.

#### **PREDICTIONS**

**Weekly Rainfall Forecast:** According to NOAA models, no heavy rainfall events are expected during 10<sup>th</sup>-15<sup>th</sup> September and during this period below average rainfall is expected in Maldives.

**Seasonal Rainfall and Temperature Prediction:** As per IRI Multi Model Probability Forecast for September to November precipitation is likely to be 45-50% above normal for Central Island while its climatological in Northern and Southern. Temperature shall also most likely be above average during this period for all Maldives.

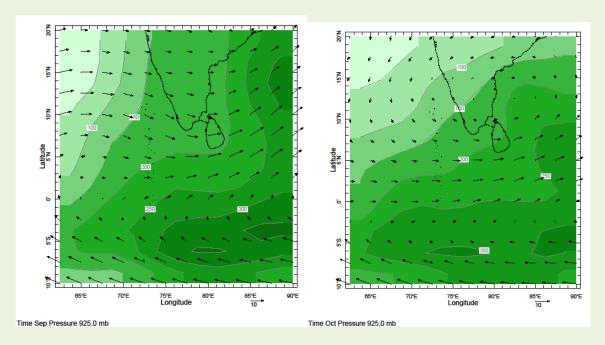
## Inside this Issue

- 1. Monthly Climatology
- 2. Rainfall Monitoring
  - a. Daily Satellite derived Rainfall Estimates
  - b. Monthly Rainfall derived from Satellite Rainfall Estimate
  - c. Monthly Rainfall Anomalies
  - d. Monthly and Seasonal Monitoring
  - e. Weekly Average SST Anomalies
- 3. Rainfall Predictions
  - a. Weekly Predictions from NOAA/NCEP
  - b. Seasonal Predictions from IRI<sup>1</sup>

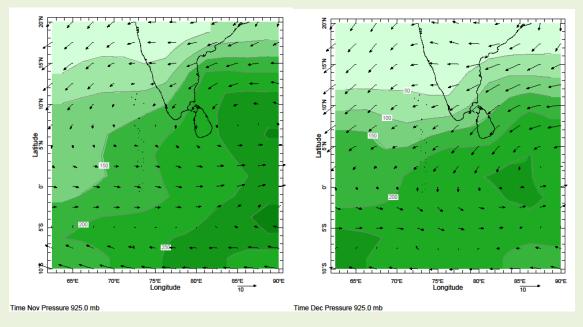
<sup>&</sup>lt;sup>1</sup> International Research Institute for Climate and Society.

## 1). Monthly Climatology (CAMS-OPI):

## a) Rainfall: Maps: September, October, November and December



## September October



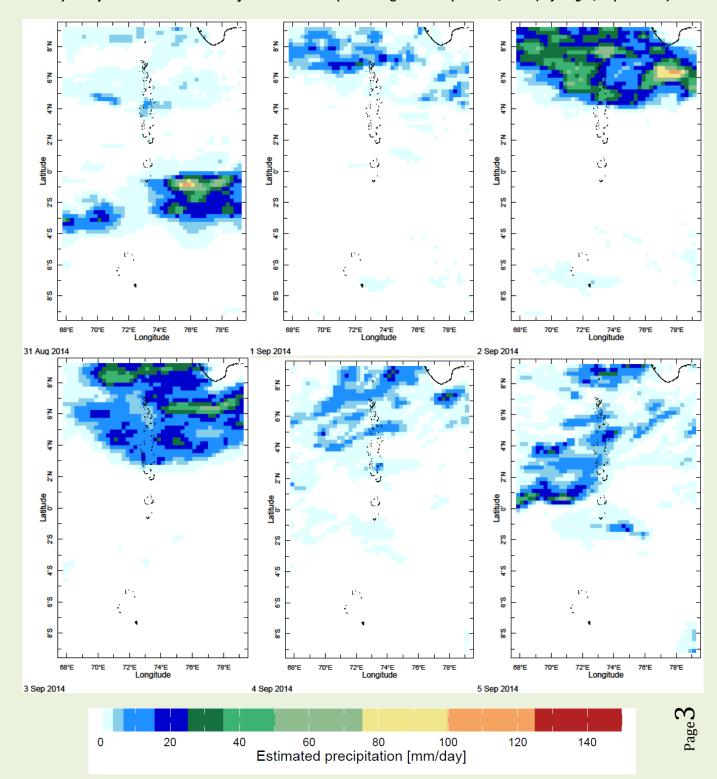
November December

DiganaVillage,Sri Lanka - Male,Maldives - New York,USA. Phone: (+94) 81-2376746 (SL), (+960) 77880(MV)

Maldives Site <a href="http://www.tropicalclimate.org/maldives">http://www.tropicalclimate.org/maldives</a>

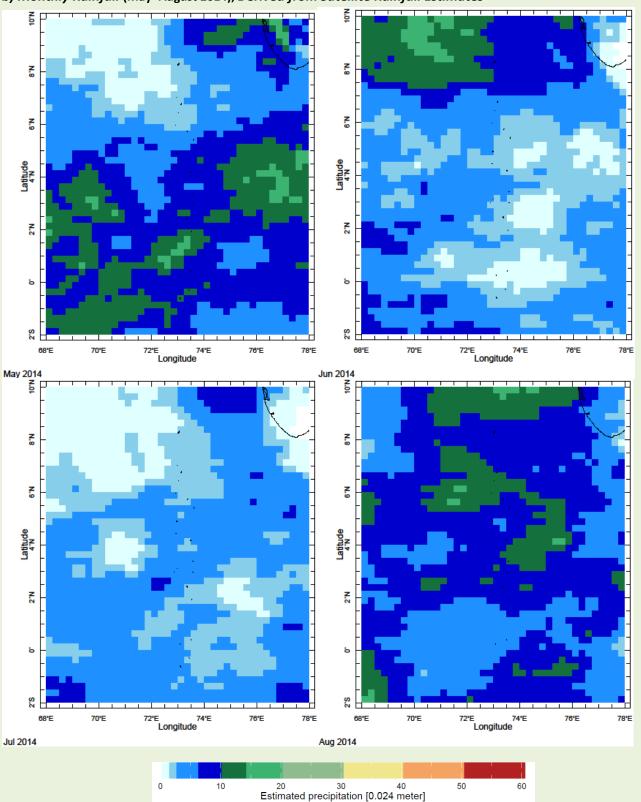
## 2) Rainfall Monitoring

## a) Daily Satellite Derived Rainfall Estimate Maps 31st August- 5th September, 2014 (Left-Right, Top-Bottom)



Maldives Site <a href="http://www.tropicalclimate.org/maldives">http://www.tropicalclimate.org/maldives</a>

## b) Monthly Rainfall (May- August 2014), Derived from Satellite Rainfall Estimates



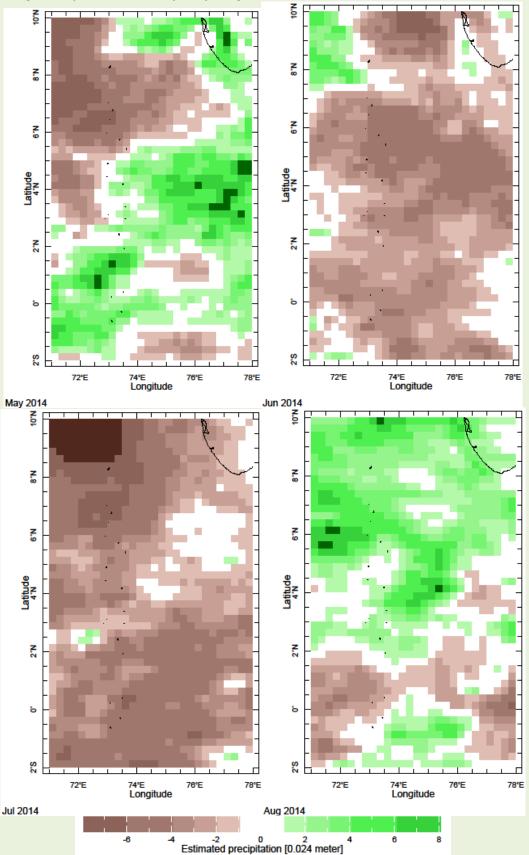
Website <a href="http://www.climate.lk/">http://www.climate.lk/</a>

Phone: (+94) 81-2376746 (SL), (+960) 77880(MV)

Maldives Site <a href="http://www.tropicalclimate.org/maldives">http://www.tropicalclimate.org/maldives</a>

## c) Monthly Average Precipitation Anomaly-May- August 2014

E-mail fectmv@gmail.com



Phone: (+94) 81-2376746 (SL), (+960) 77880(MV)

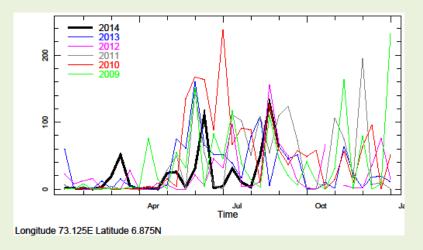
Maldives Site http://www.tropicalclimate.org/maldives

## d) Seasonal to Annual Rainfall Monitoring

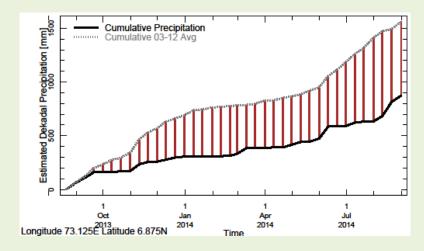
## i) For Northern Maldives

## 1) Rainfall in 2014 (black) compared to rainfall in previous 5 years

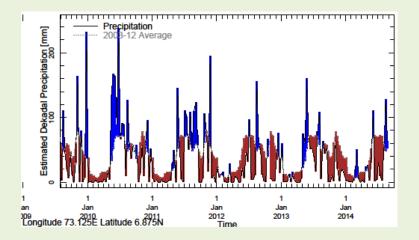
E-mail fectmv@gmail.com



## 2) Rainfall of past 365 days (black) compared to average rainfall in previous 8 years.



## 3) Rainfall for the past 5 years with above-average (compared to the last 8 years) hatched in blue and below normal in brown.



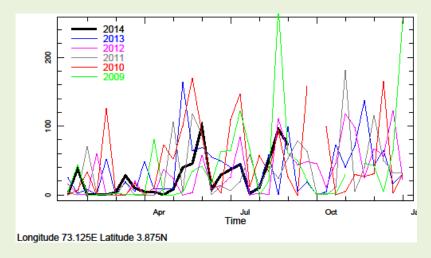
Maldives Site <a href="http://www.tropicalclimate.org/maldives">http://www.tropicalclimate.org/maldives</a>

ii) For Central Maldives

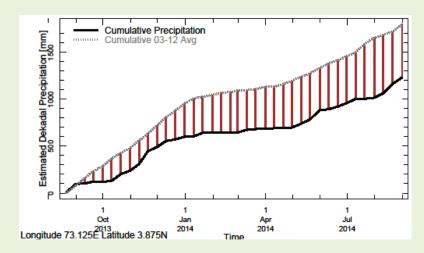
Website <a href="http://www.climate.lk/">http://www.climate.lk/</a>

## 1) Rainfall in 2014 (black) compared to rainfall in previous 5 years

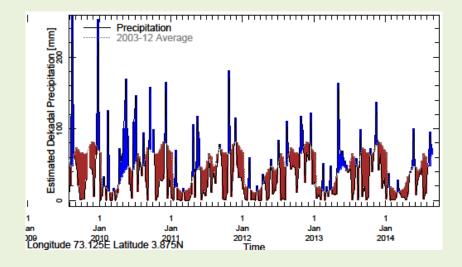
E-mail fectmv@gmail.com



2) Rainfall of past 365 days (black) compared to average rainfall in previous 8 years.

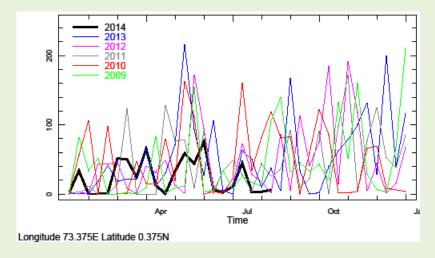


3) Rainfall for the past 5 years with above-average (compared to the last 8 years) hatched in blue and below normal in brown.

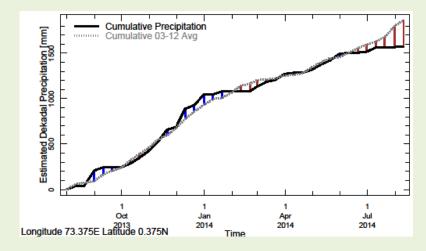


## iii) For Southern Maldives

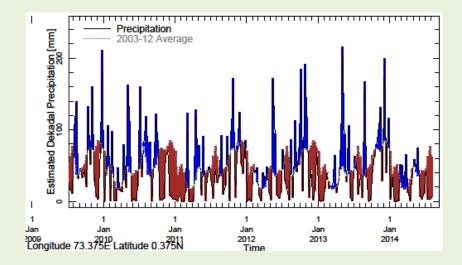
## 1) Rainfall in 2014 (black) compared to rainfall in previous 5 years



## 2) Rainfall of past 365 days (black) compared to average rainfall in previous 8 years.



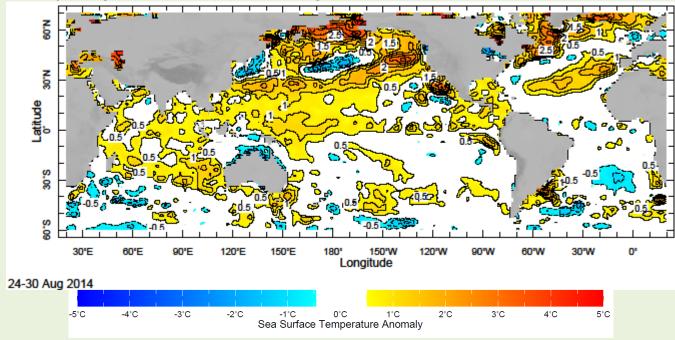
## 3) Rainfall for the past 5 years with above-average (compared to the last 8 years) hatched in blue and below normal in brown.



Phone: (+94) 81-2376746 (SL), (+960) 77880(MV)

Maldives Site <a href="http://www.tropicalclimate.org/maldives">http://www.tropicalclimate.org/maldives</a>

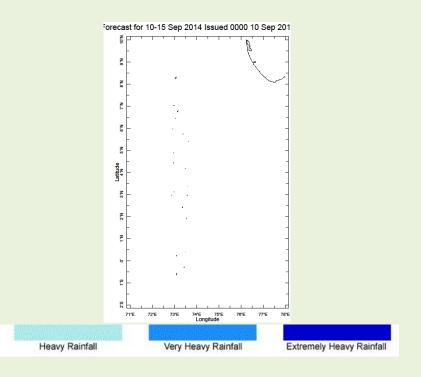
## e) Weekly Average SST Anomalies (°C), 24th- 30th August, 2014



Data Source: NCEP, Environmental Monitoring Center Base Period of Climatology: 1971- 2000

## 3). Predictions

## a) Weekly Precipitation Forecast for 10<sup>th</sup> – 15<sup>th</sup> September, 2014: Issued 10<sup>th</sup> September, 2014



Maldives Site <a href="http://www.tropicalclimate.org/maldives">http://www.tropicalclimate.org/maldives</a>

## b) Seasonal Rainfall and Temperature Predictions from IRI

