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Experimental Climate Monitoring and Prediction for the Maldives —July 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

14 July 2014

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www.tropicalclimate.org/ maldives

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PACIFIC SEAS STATE

July 9, 2014

During June through earlyJuly the observed ENSO
conditions remained near
the borderline of a weak El
Niño condition in the ocean,
but the atmosphere so far
has shown little
involvement. Most of the
ENSO prediction models
indicate more warming
coming in the months
ahead, leading to sustained
El Niño conditions by the
middle of northern summer.

(Text Courtesy IRI)

INDIAN OCEAN STATE

July 5, 2014

Warmer than average SST conditions are observed around Maldives particularly away from the Southern tip.

Overall there is a warming tendency in the Central Indian Ocean.

Highlights²

Lower than average rainfall conditions were observed in entire Maldives in the month of June. The cumulative deficit of rainfall over the last 12 months has increased to an amount around 700 mm in Northern and Central islands. Southern islands continues to show a much smaller rainfall deficit over the last year. The temperatures are predicted to be warmer than expected in the next three months and the rainfall below normal in the Southern islands.

Summary²

CLIMATOLOGY

Monthly Climatology: During July and August Northernmost as well as Southern islands receive rainfall up to 200 mm while other regions of Maldives receive rainfall up to 150 mm. 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.

MONITORING

Weekly Monitoring: During 7th of July to 12th of July rainfall was only observed on the 8th and 9th. On the 8th Northern and Central islands received rainfall up to 30 mm and on the 9th the entire country received rainfall up to 60 mm. except these two days, no rainfall was observed during this 6 day period anywhere in Maldives.

Monthly and Seasonal Monitoring: Less than average rainfall was observed during June in the entire Maldives. As a result the deficit in rainfall compared to the average of 8 previous years has increased significantly. In Northern and Central islands this deficit has grown to around 700 mm. The Southern islands too continue to show a rainfall deficit.

PREDICTIONS

Weekly Rainfall Forecast: Heavy rainfall events are not expected during 13th- 18th July 2014.

Seasonal Rainfall and Temperature Prediction: As per IRI Multi Model Probability Forecast for July to September 2014, rainfall shall tend towards near-climatological for Northern and Central Maldives and tend towards below climatology for Southern Maldives while the seasonal temperature this season shall tend towards the above normal tercile across the Maldives.

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- 1. Monthly Climatology
- 2. Rainfall Monitoring
 - a. Daily Satellite derived Rainfall Estimates
 - b. Monthly Rainfall derived from Satellite Rainfall Estimate
 - c. Monthly and Seasonal Monitoring
 - d. Weekly Average SST Anomalies
- 3. Rainfall Predictions
 - a. Weekly Predictions from NOAA/NCEP
 - b. Seasonal Predictions from IRI¹

¹ International Research Institute for Climate and Society.

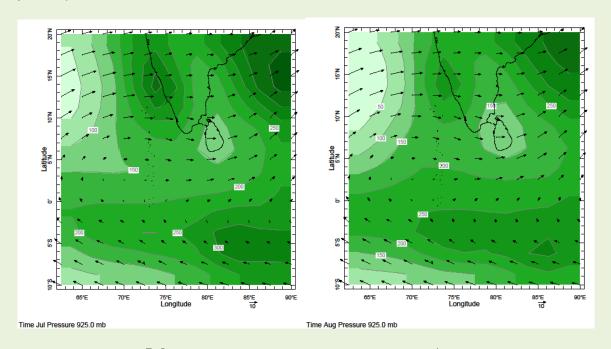
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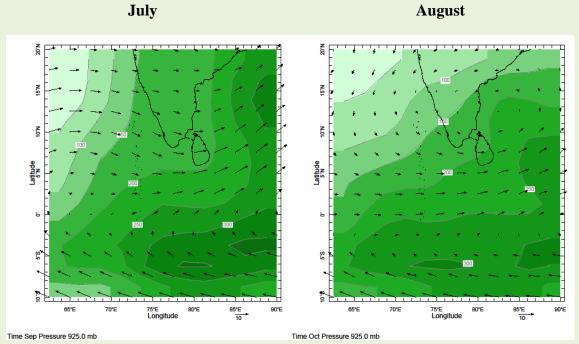
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1). Monthly Climatology (CAMS-OPI):

a) Rainfall: Maps: July, August, September and October





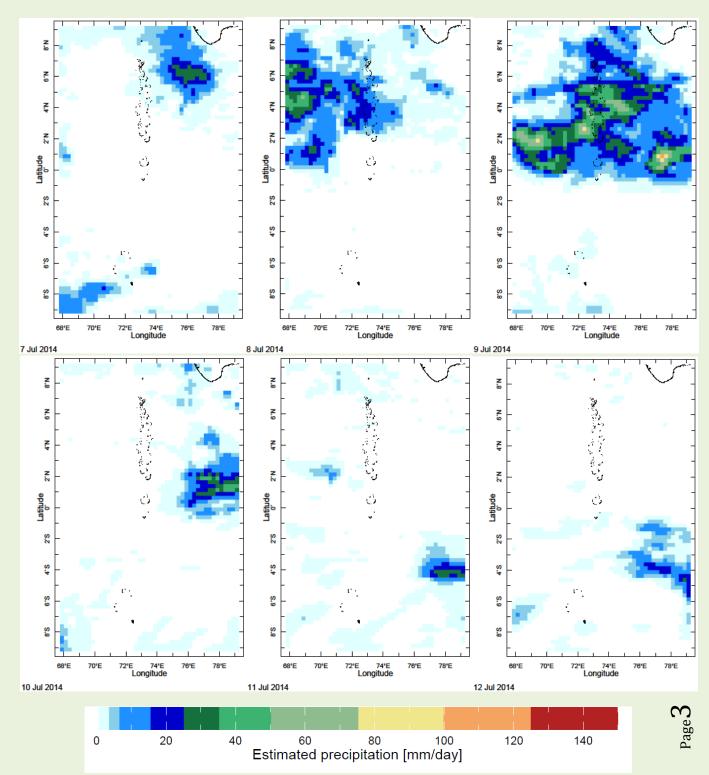
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2) Rainfall Monitoring

a) Daily Satellite Derived Rainfall Estimate Maps: 7th - 12th July, 2014 (Left-Right, Top-Bottom)

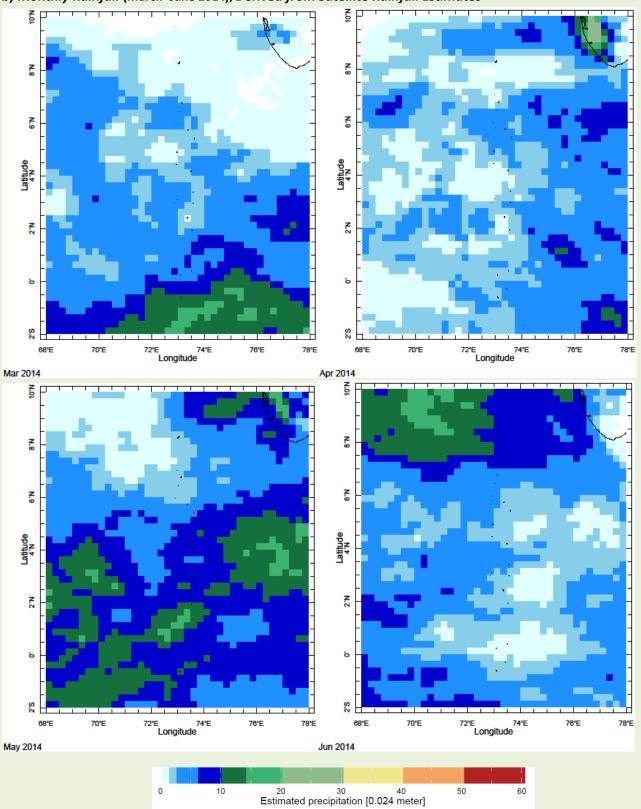


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b) Monthly Rainfall (March-June 2014), Derived from Satellite Rainfall Estimates



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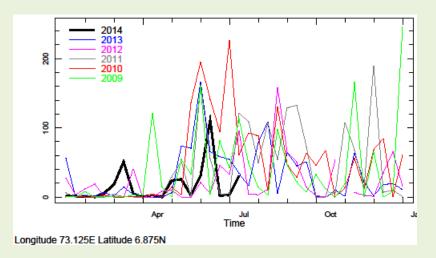
c) Seasonal to Annual Rainfall Monitoring

i) For Northern Maldives

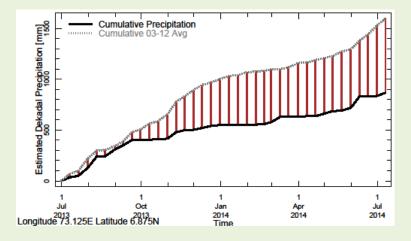
Website http://www.climate.lk/

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

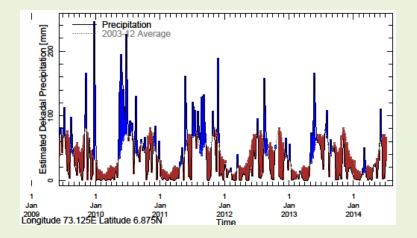
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2) Rainfall of past 365 days (black) compared to average rainfall in previous 8 years.



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



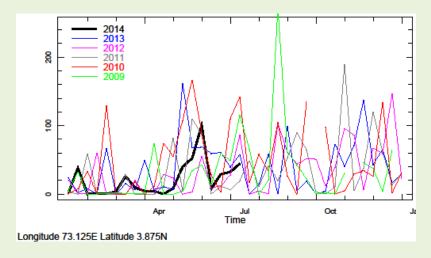
Maldives Site http://www.tropicalclimate.org/maldives

ii) For Central Maldives

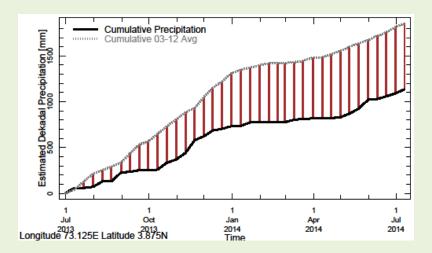
Website http://www.climate.lk/

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

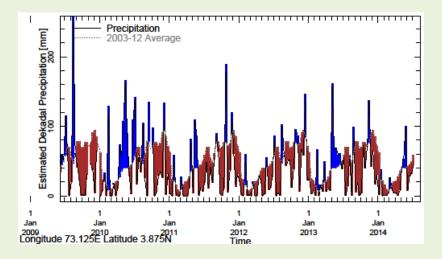
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2) Rainfall of past 365 days (black) compared to average rainfall in previous 8 years.

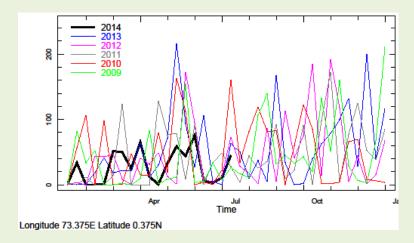


3) Rainfall for the past 5 years with above-average (compared to the last 8 years) hatched in blue and below normal in brown.

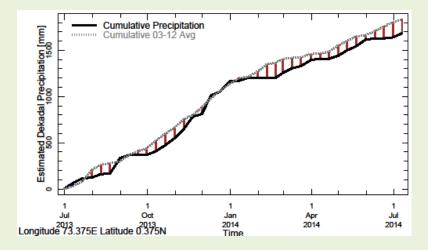


iii) For Southern Maldives

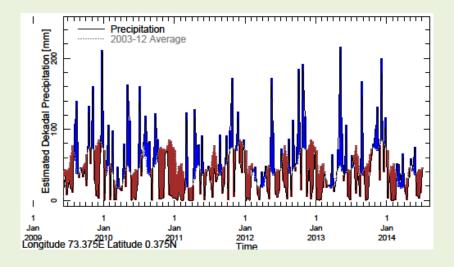
1) Rainfall in 2014 (black) compared to rainfall in previous 5 years



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



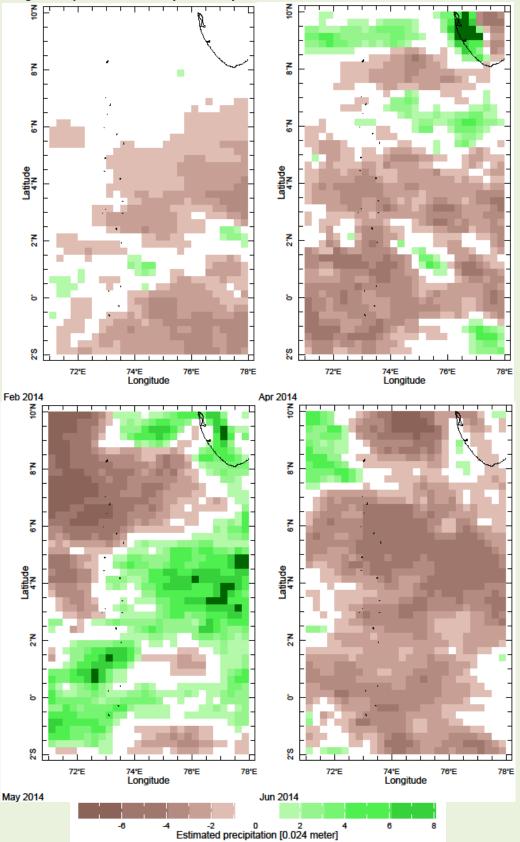
3) Rainfall for the past 5 years with above-average (compared to the last 8 years) hatched in blue and below normal in brown.



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d) Monthly Average Precipitation Anomaly-February- June 2014

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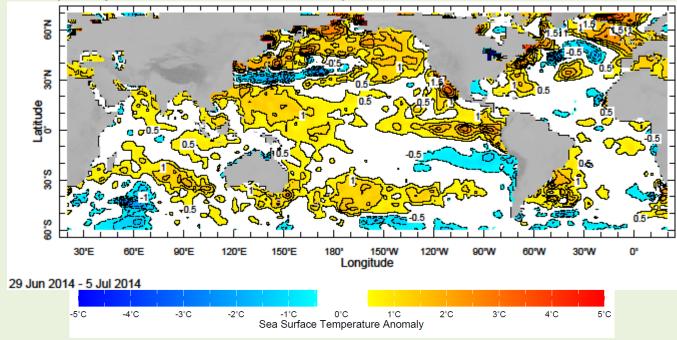
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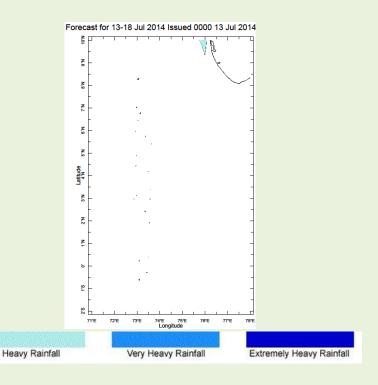
e) Weekly Average SST Anomalies (°C), 29th June – 5th July, 2014



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

3). Predictions

a) Weekly Precipitation Forecast for 13th - 18th July, 2014: Issued 13th July, 2014



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b) Seasonal Rainfall and Temperature Predictions from IRI

