

August Climate Update 2017



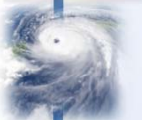
Vanuatu Meteorology & Geo-hazards Department



MCC

23 August, 2017



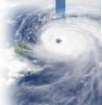
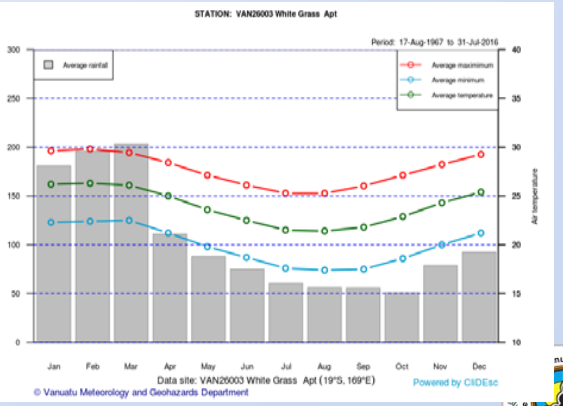
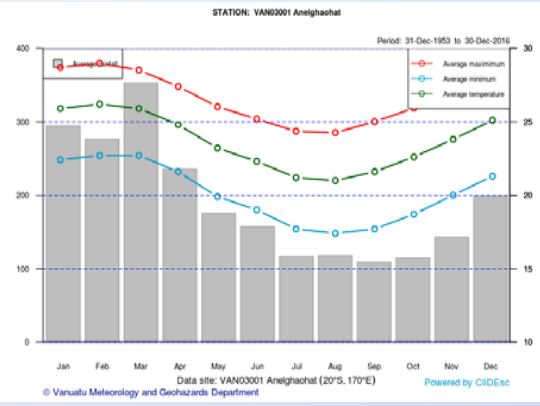
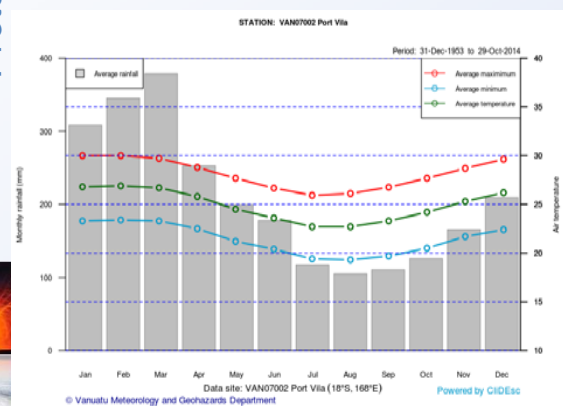
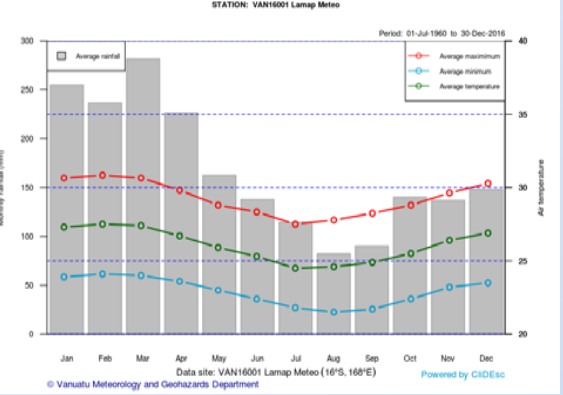
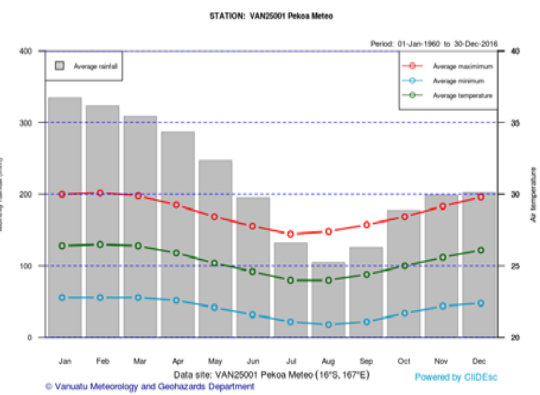
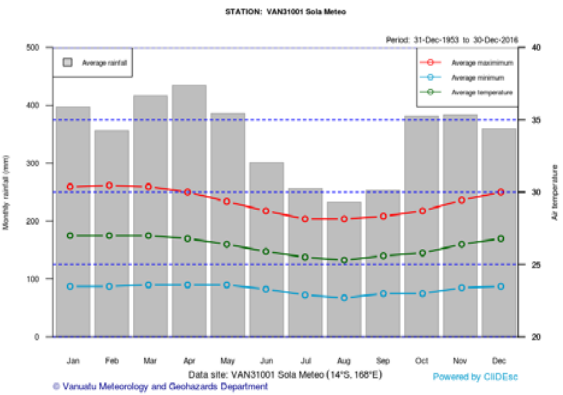


Outline

- **Past Rainfall**
- **Circulations (Ocean & Atmosphere)**
- **ENSO situation & Forecast**
- **Scopic 3 Month Outlook**

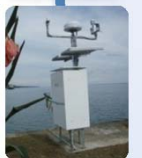


Monthly Mean Rainfall



PAST RAINFALL -July rainfall

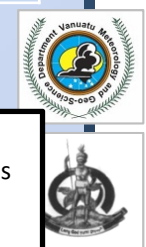
Station (include data period)	July 2017						
	May 2017 Total	June 2017 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
NORTHERN REGION							
Sola	689.1	166.1	77.5	188.5	317.5	264.4	7/43
Pekoa	527.9	36.2	62.8	60.3	125.6	84.0	18/47
Lamap	218.6	67.5	10.5	60.0	120.8	85.9	1/57
SOUTHERN REGION							
Bauerfield	403.0	74.3	22.1	47.3	93.9	63.2	6/45
Port Vila	257.7	47.3	80.8	50.1	127.3	75.6	35/65
Whitegrass	121.0	77.3	2.4	30.5	59.6	51.6	2/45
Aneityum	330.9	77.1	26.7	82.0	142.9	112.5	3/66



Accumulated rainfall for May –July 2017, including outlook verification:

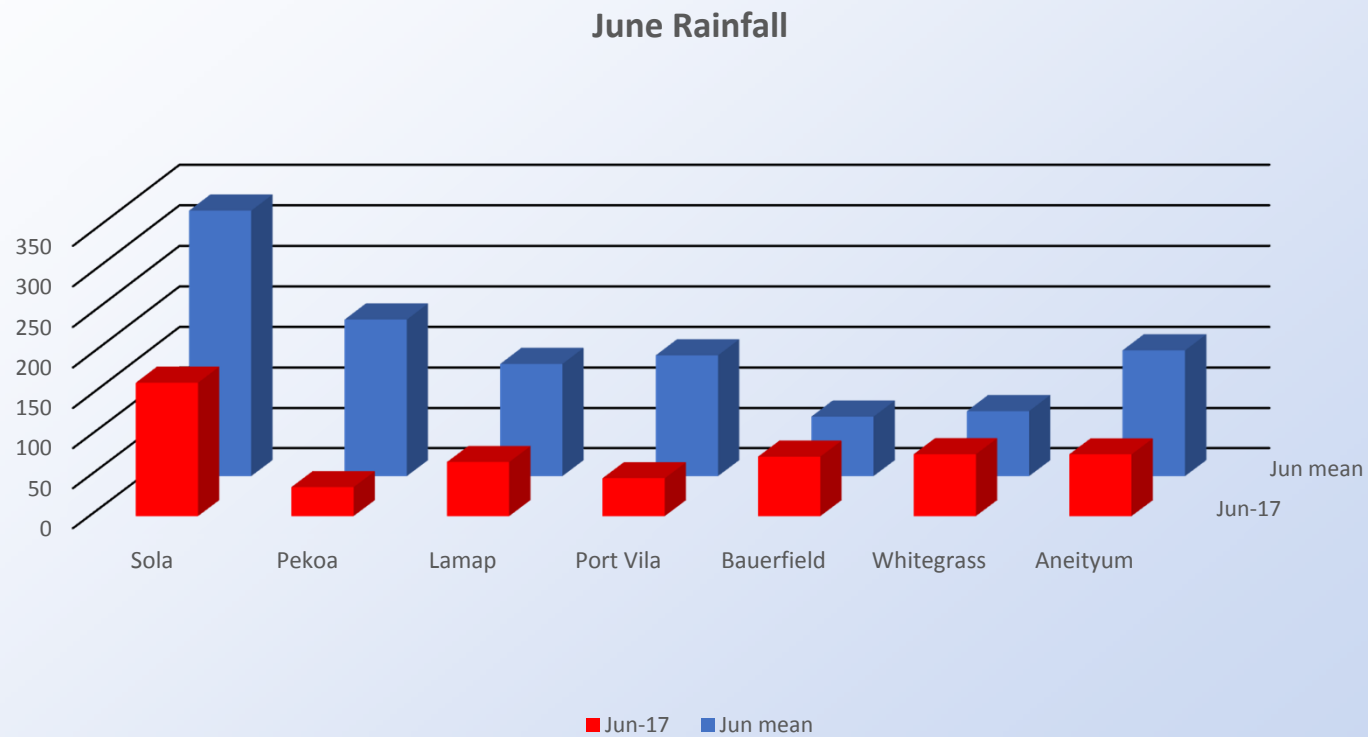
Station	Three-month Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking	Forecast probs.* (include LEPS)	Verification (Consistent, Near-consistent Inconsistent)?
NORTHERN REGION							
Sola	932.7	751.4	1186.0	995.0	21/42	29:35:36(3.60)	Near-consistent
Pekoa	626.9	326.3	560.2	464.8	33/47	26:37:37(11.0)	Near -consistent
Lamap	296.6	310.6	471.5	386.6	16/56	31:34:35(4.8)	Near -consistent
SOUTHERN REGION							
Bauerfield	499.4	310.2	526.7	427.5	27/47	29:36:35(5.5)	Consistent
Port Vila	385.8	349.1	488.4	403.2	21/65	24:38:38(15.60)	Near-consistent
Whitegrass	200.7	181.2	272.7	222.5	19/45	34:33:33(8.30)	Near-consistent
Aneityum	434.7	357.6	522.4	436.0	33/65	31:34:35(4.1)	Near-consistent

[1] Forecast is consistent when observed and predicted (tercile with the highest probability) categories coincide (are in the same tercile).
 Forecast is near-consistent when observed and predicted (tercile with the highest probability) differ by only one category (i.e. terciles 1 and 2 or terciles 2 and 3).
 Forecast is inconsistent when observed and predicted (tercile with the highest probability) differ by two categories (i.e. terciles 1 and 3).

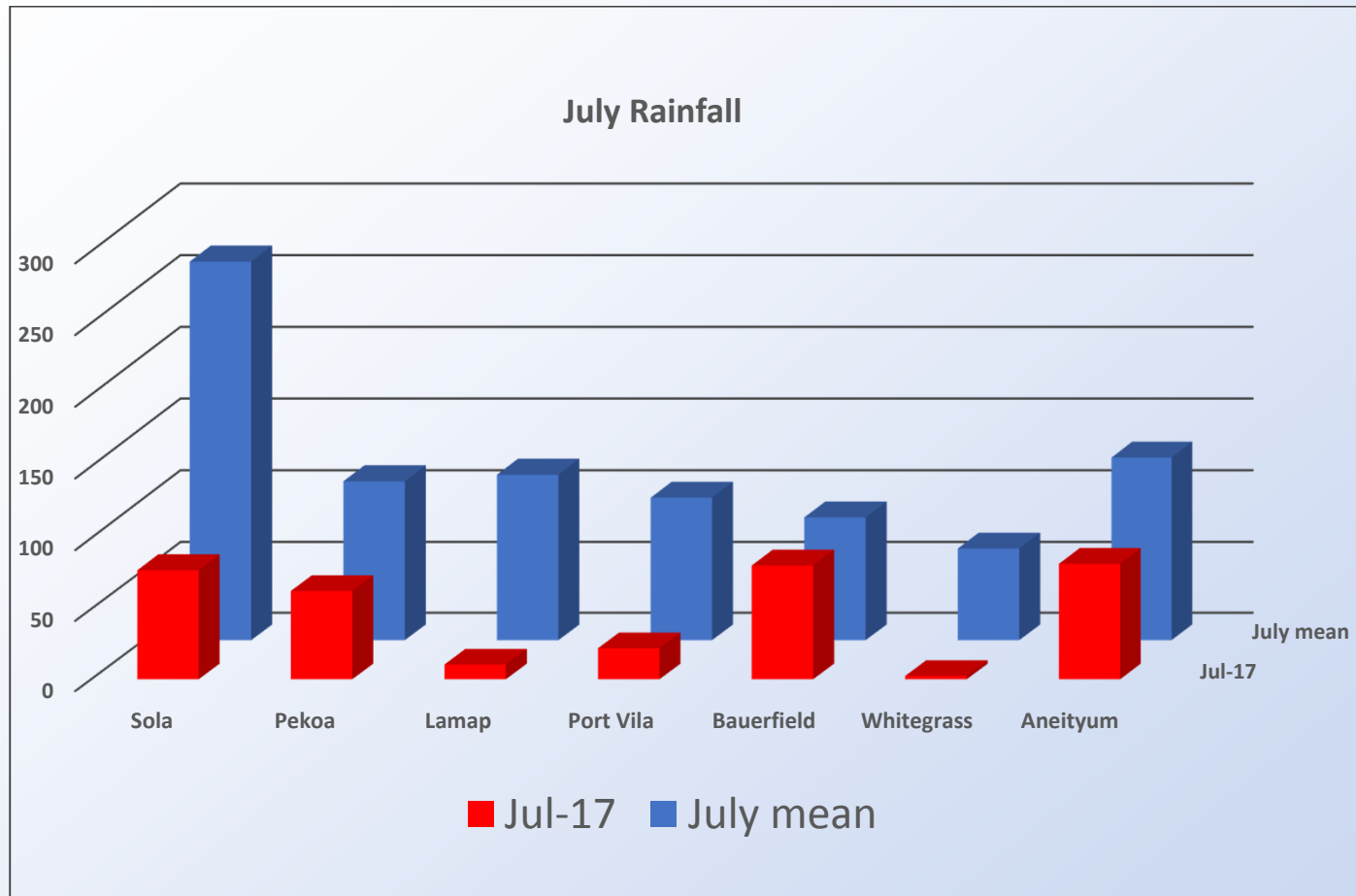




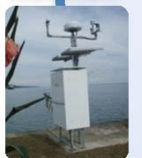
June rainfall



July Rainfall 2017

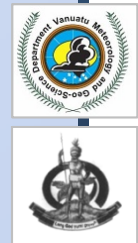
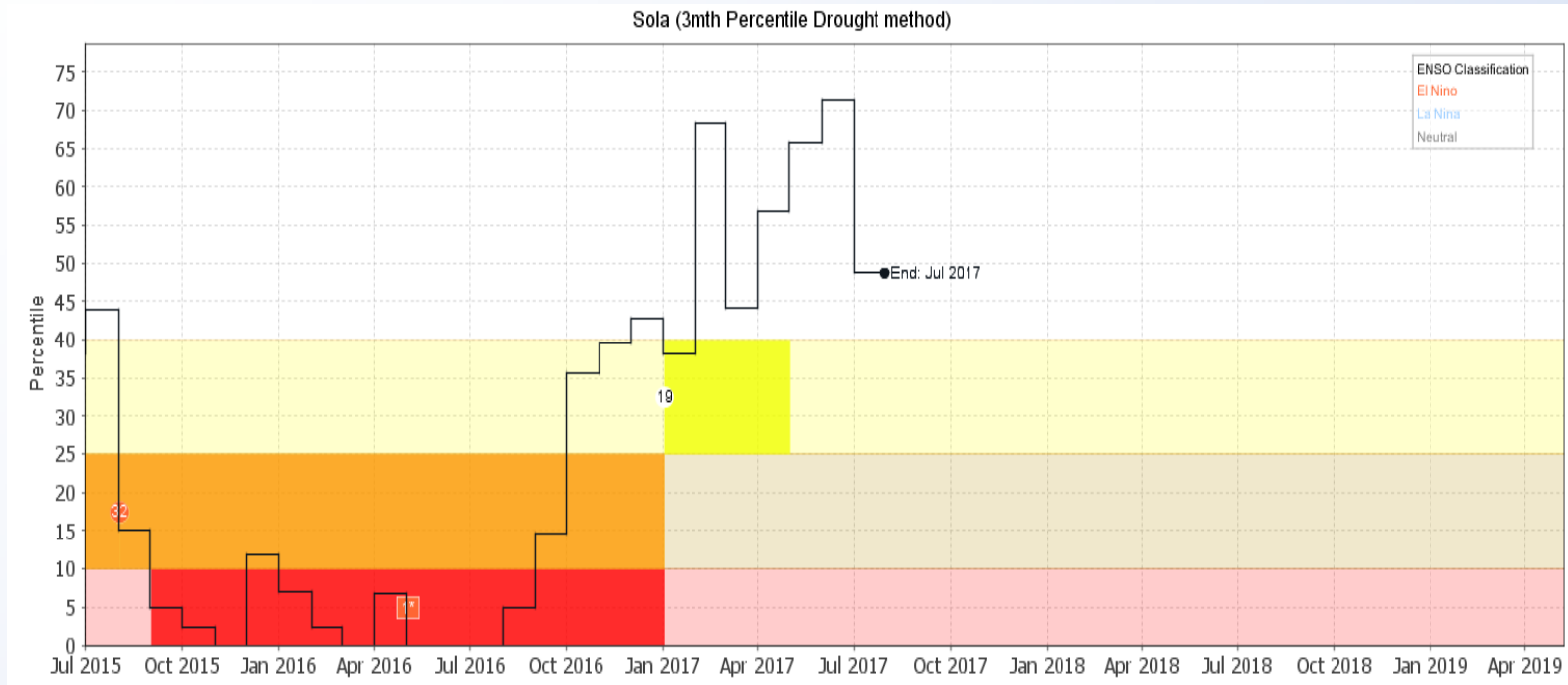


Rainfall for the past Month (July) was *below normal* for most stations, except Pekoa and Port Vila.



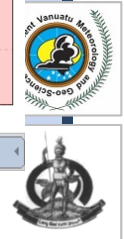
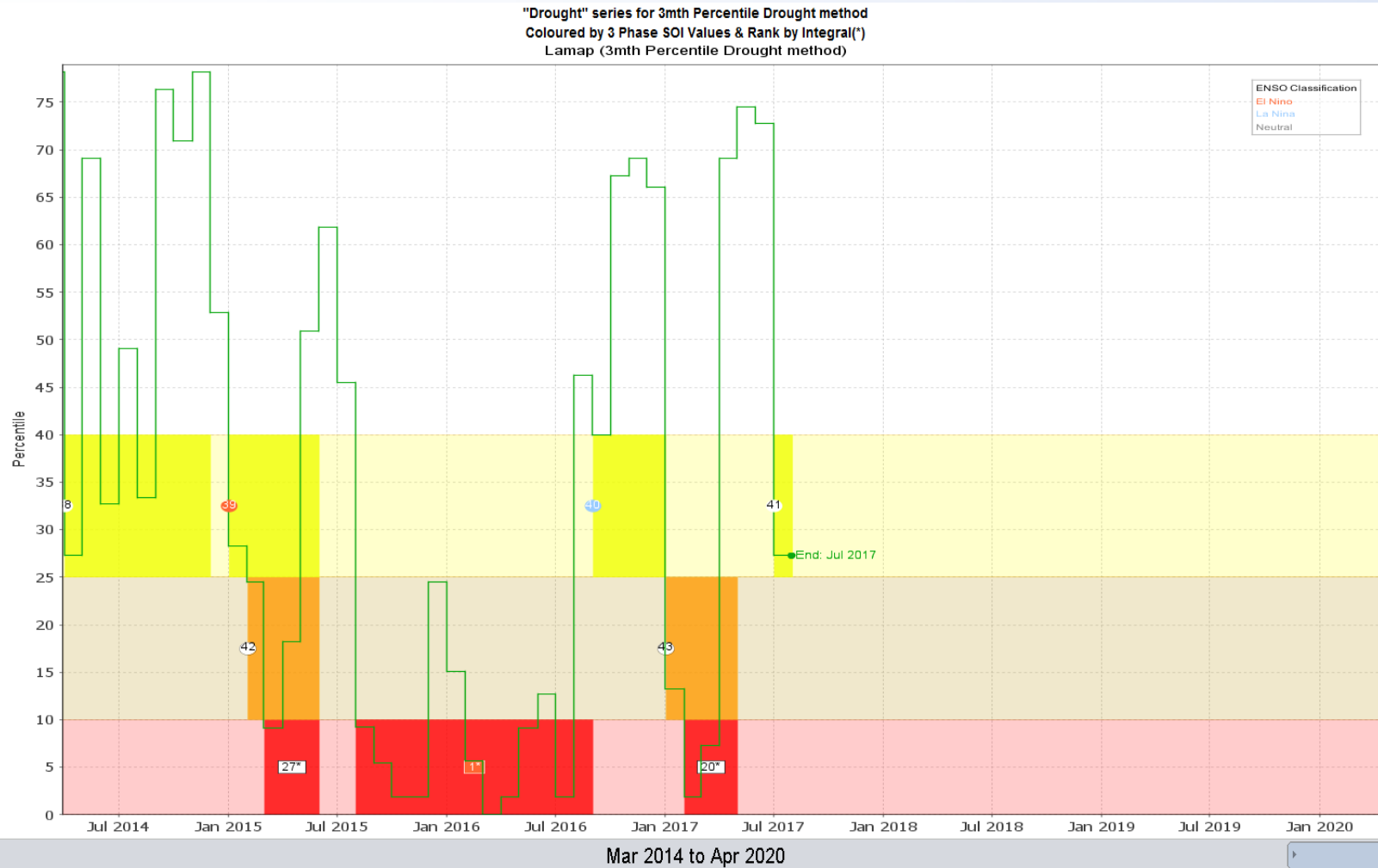


Sola



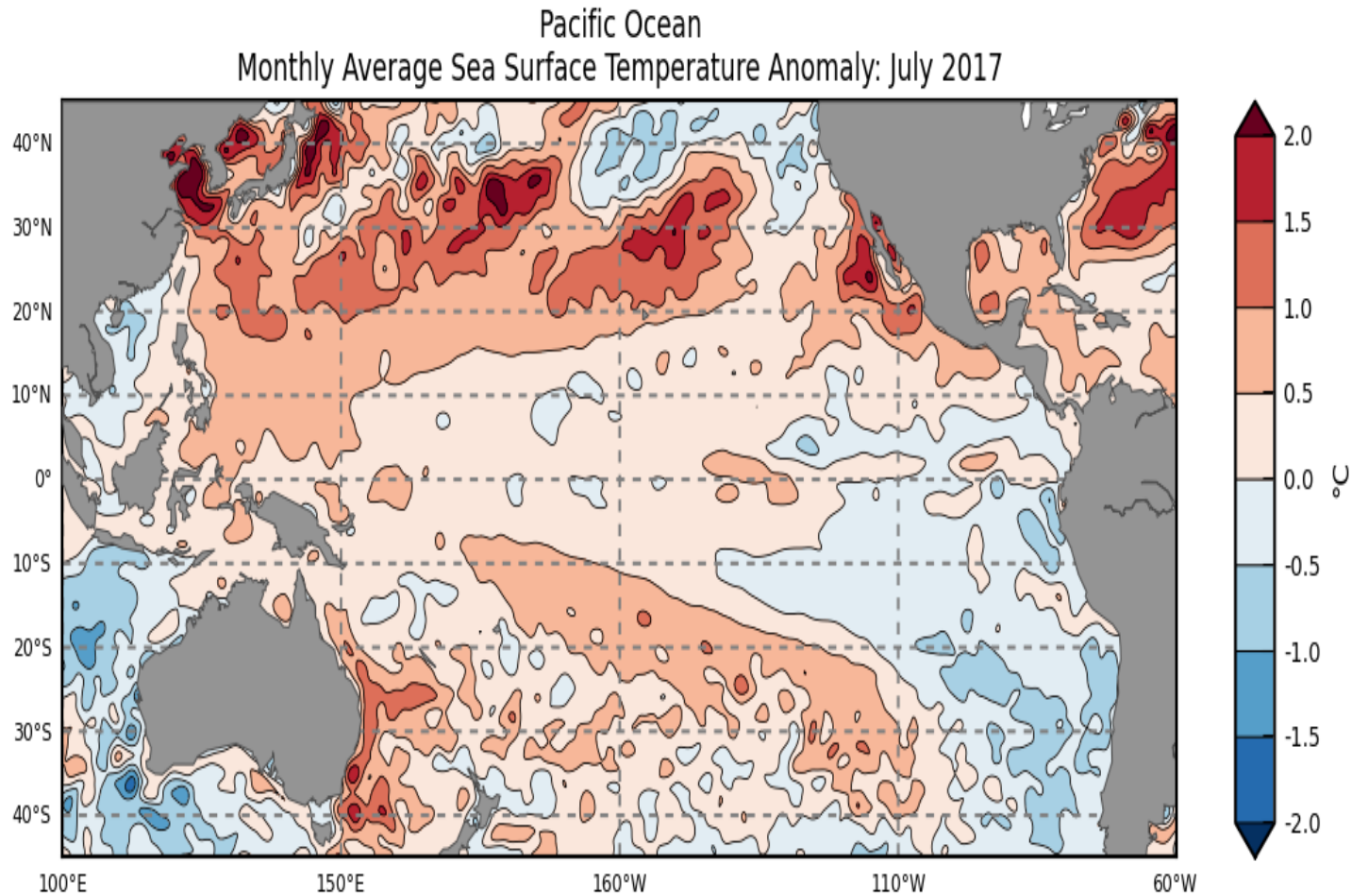


Lamap





Circulation -ocean and atmosphere

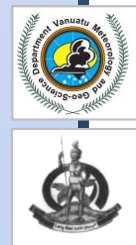
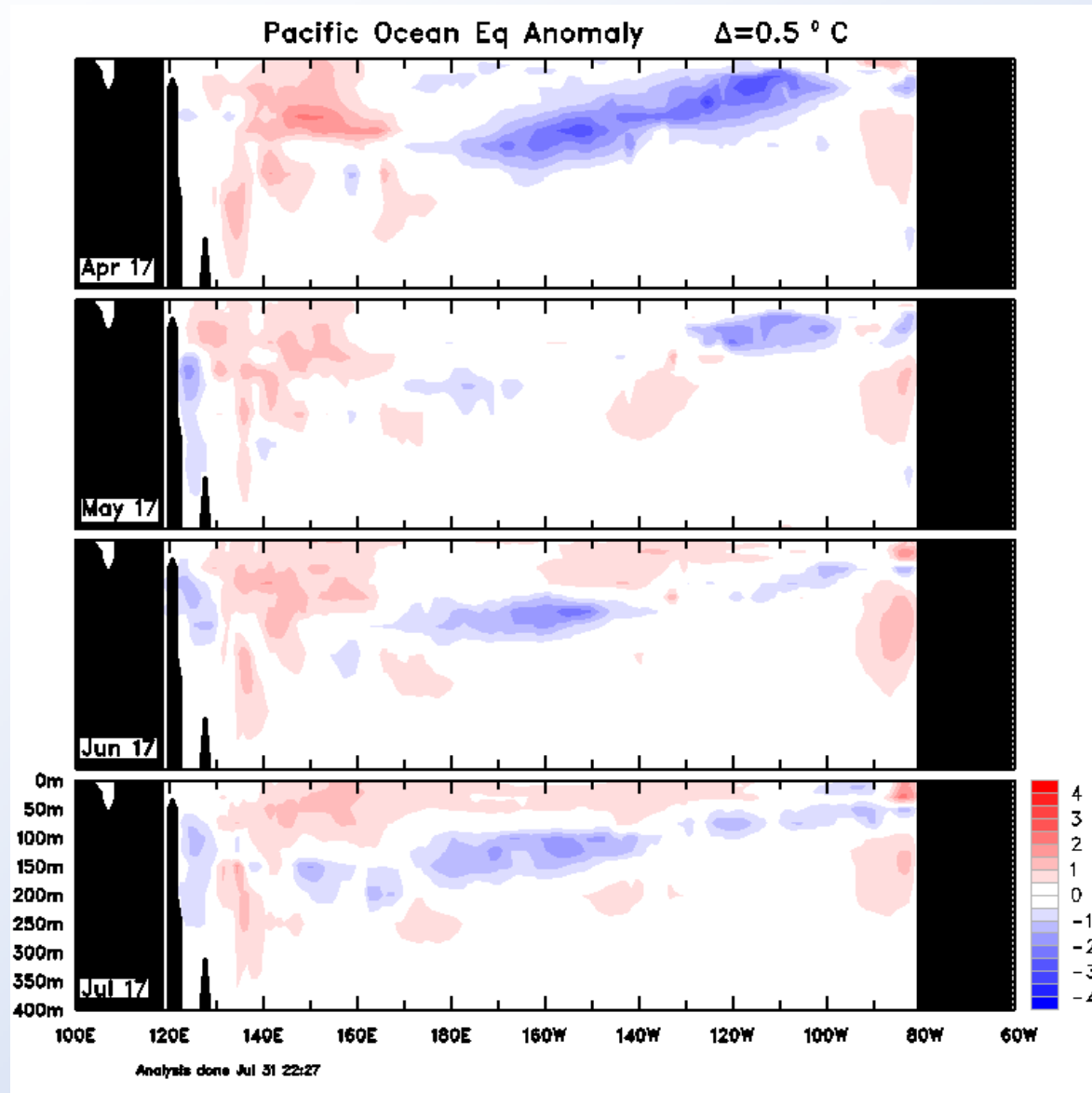


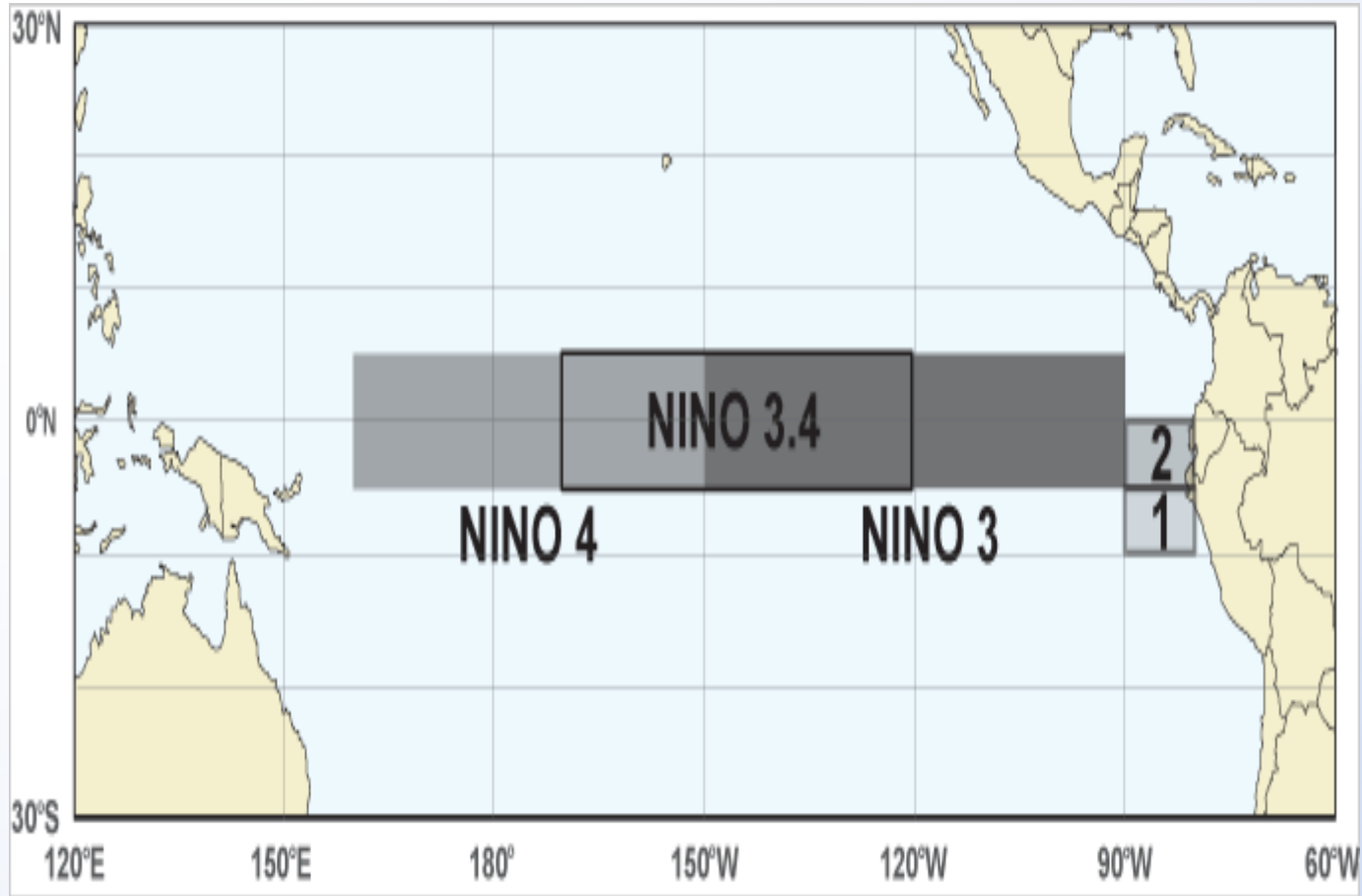
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Reynolds SST



Equatorial Pacific sub-surface profile Bureau of Meteorology

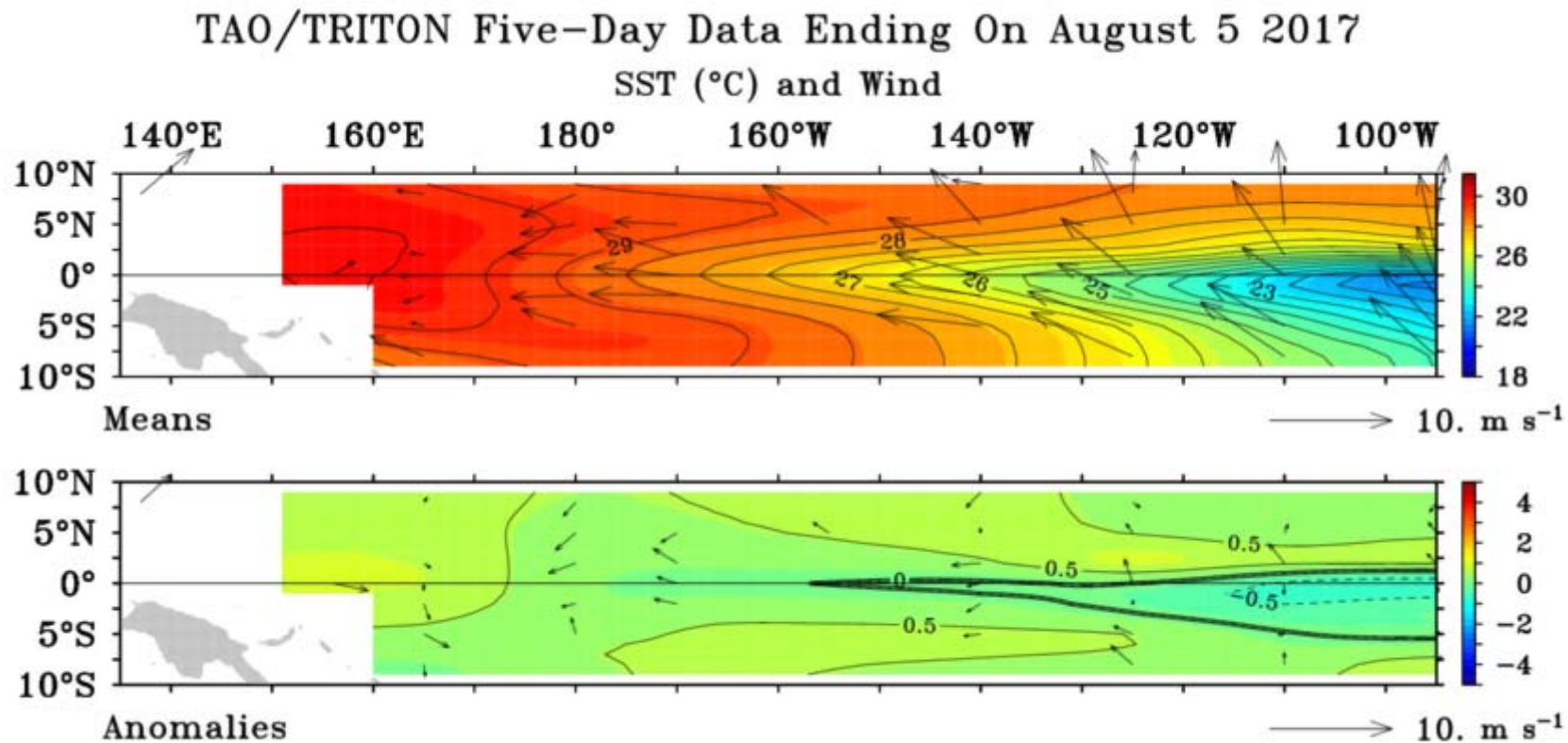




Index	June 2017	July 2017	Latest weekly
NiNO3	+0.3	+0.3	+0.2
NiNO3.4	+0.5	+0.4	+0.1
NiNO4	+0.5	+0.5	+0.3



trade winds

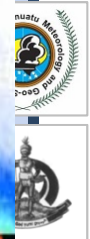
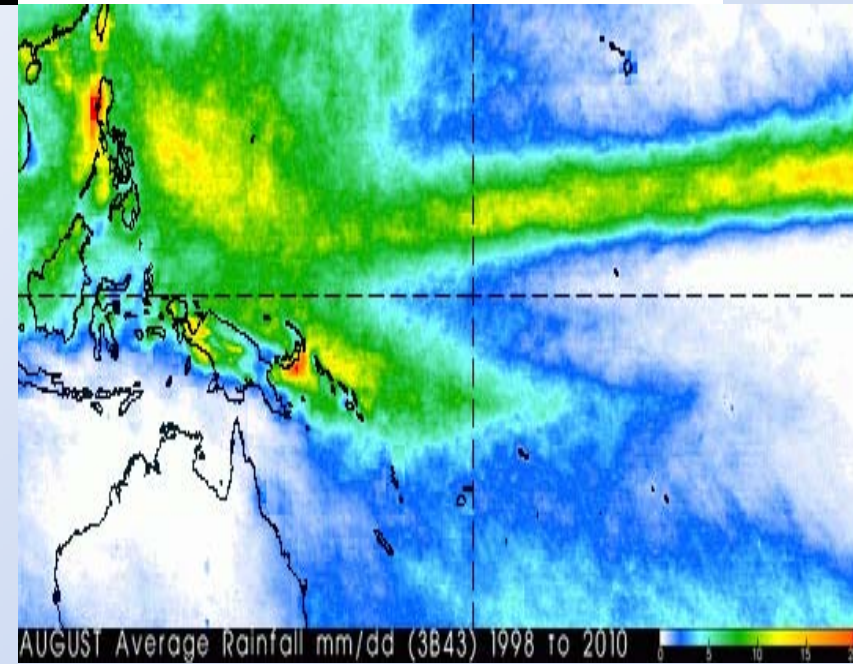
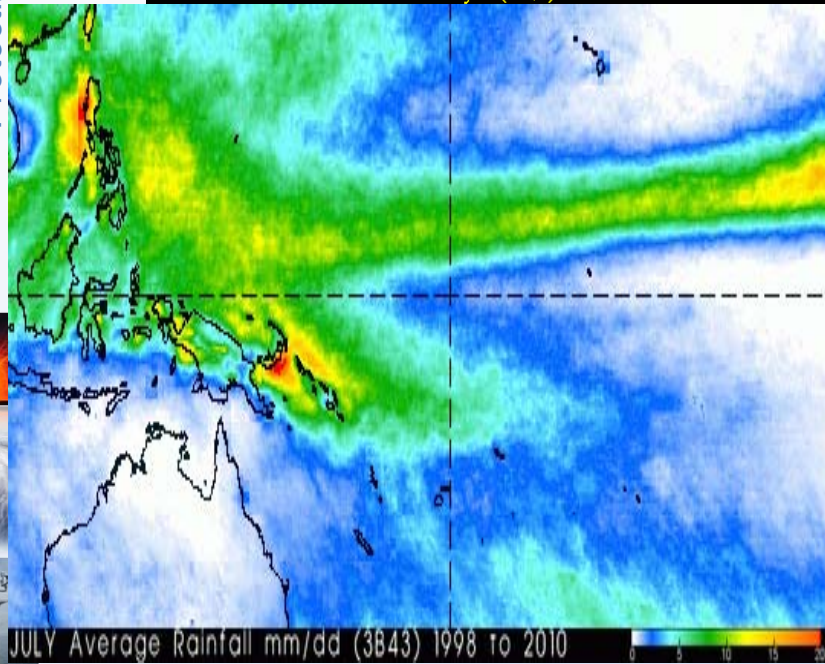
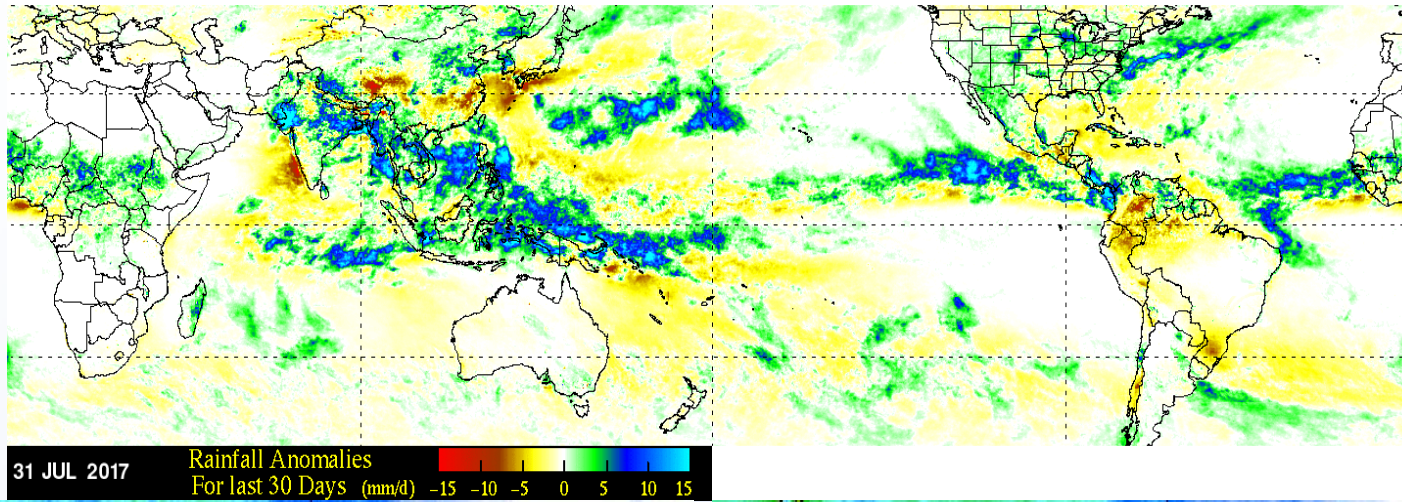


Global Tropical Moored Buoy Array Program Office, NOAA/PMEL

Aug 6 2017

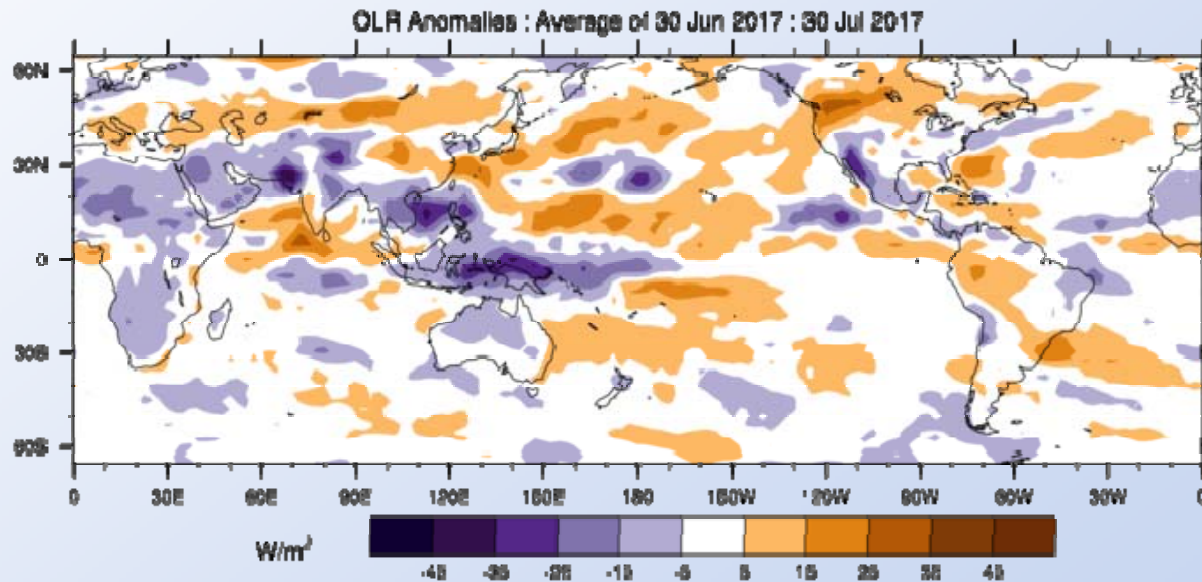
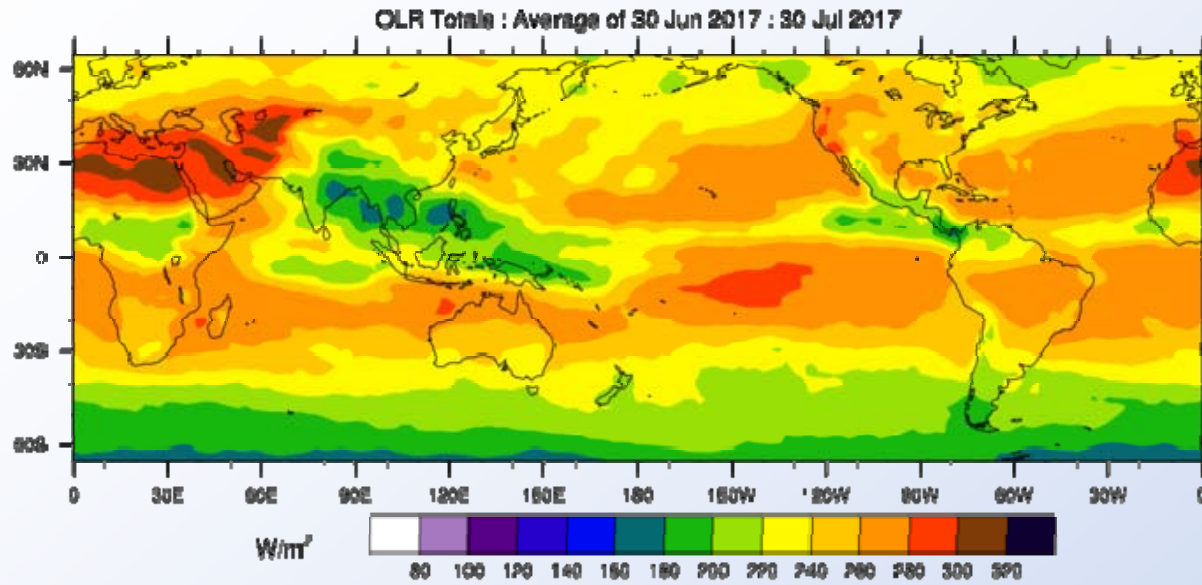


Satellite Rainfall TRMM





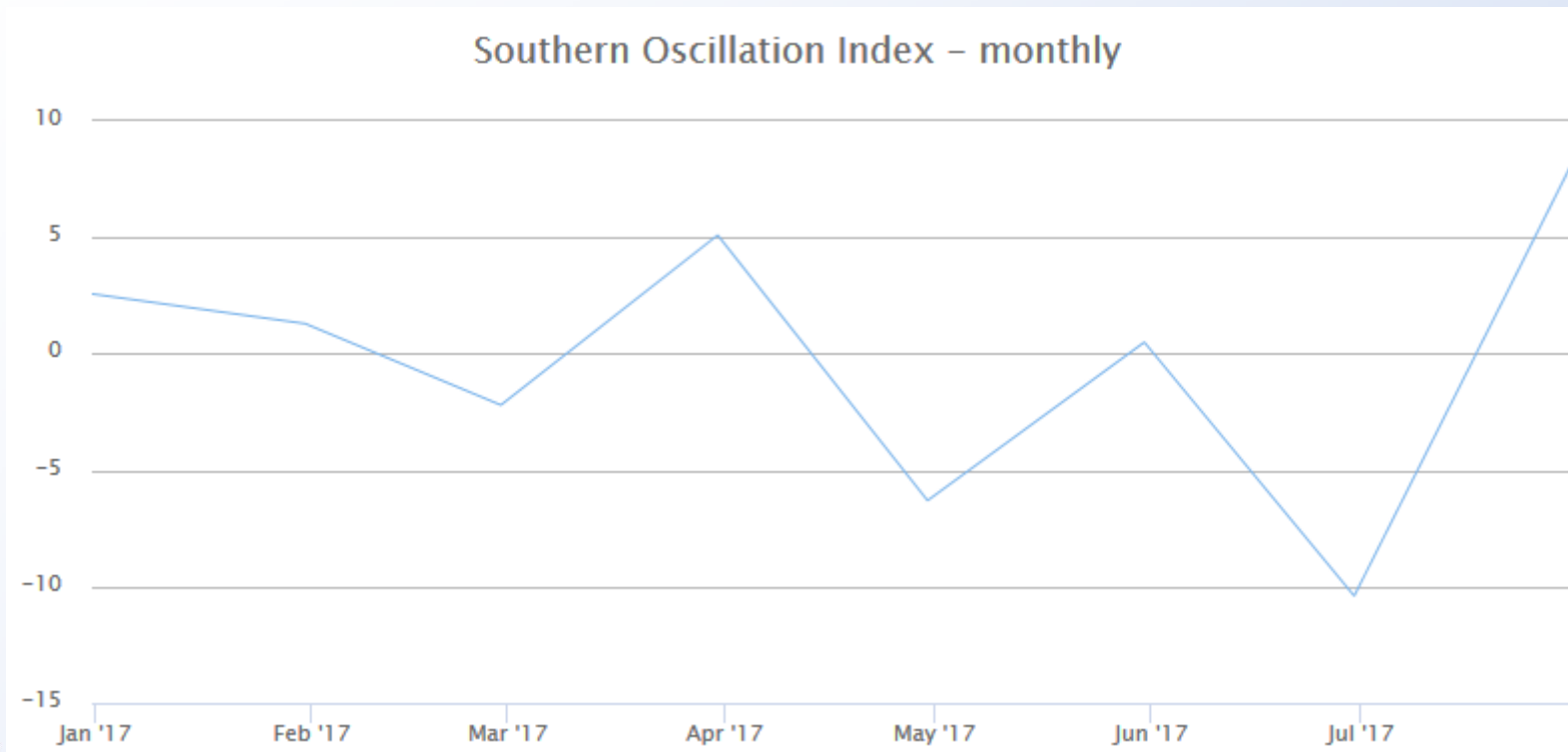
Outgoing-longwave(OLR) radiation



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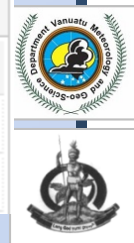


ENSO Situation and Forecast



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	+1.3	-2.2	+5.1	-6.3	+0.5	-10.4	+8.1	-	-	-	-	-
2016	-19.7	-19.7	-4.7	-22.0	+2.8	+5.8	+4.2	+5.3	+13.5	-4.3	-0.7	+2.6

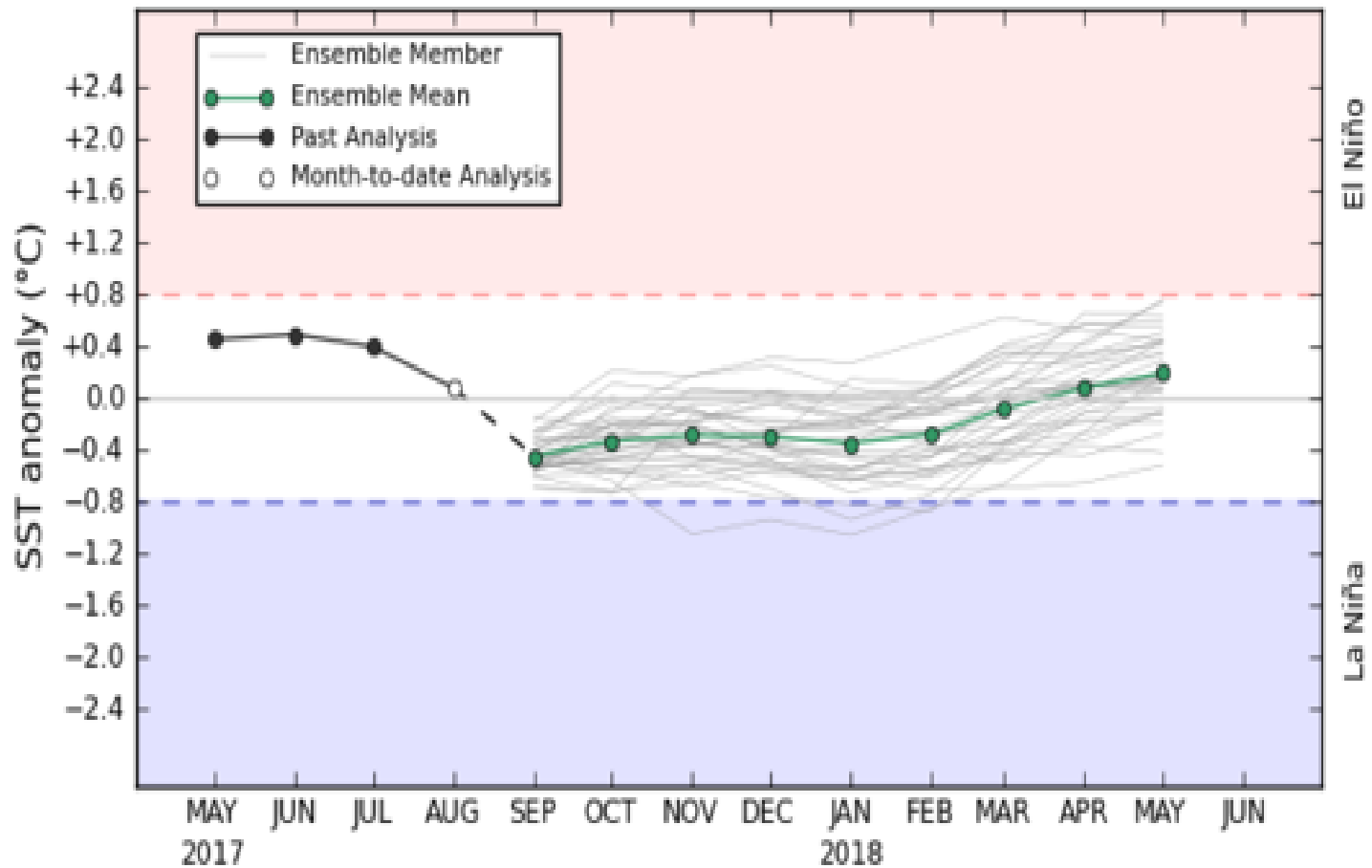
At 05 August 2017: 30-day SOI = +7; 90-day SOI = +1





POAMA monthly mean (NINO3.4)

POAMA monthly mean NINO34 - Forecast Start: 13 AUG 2017



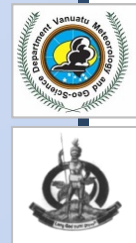
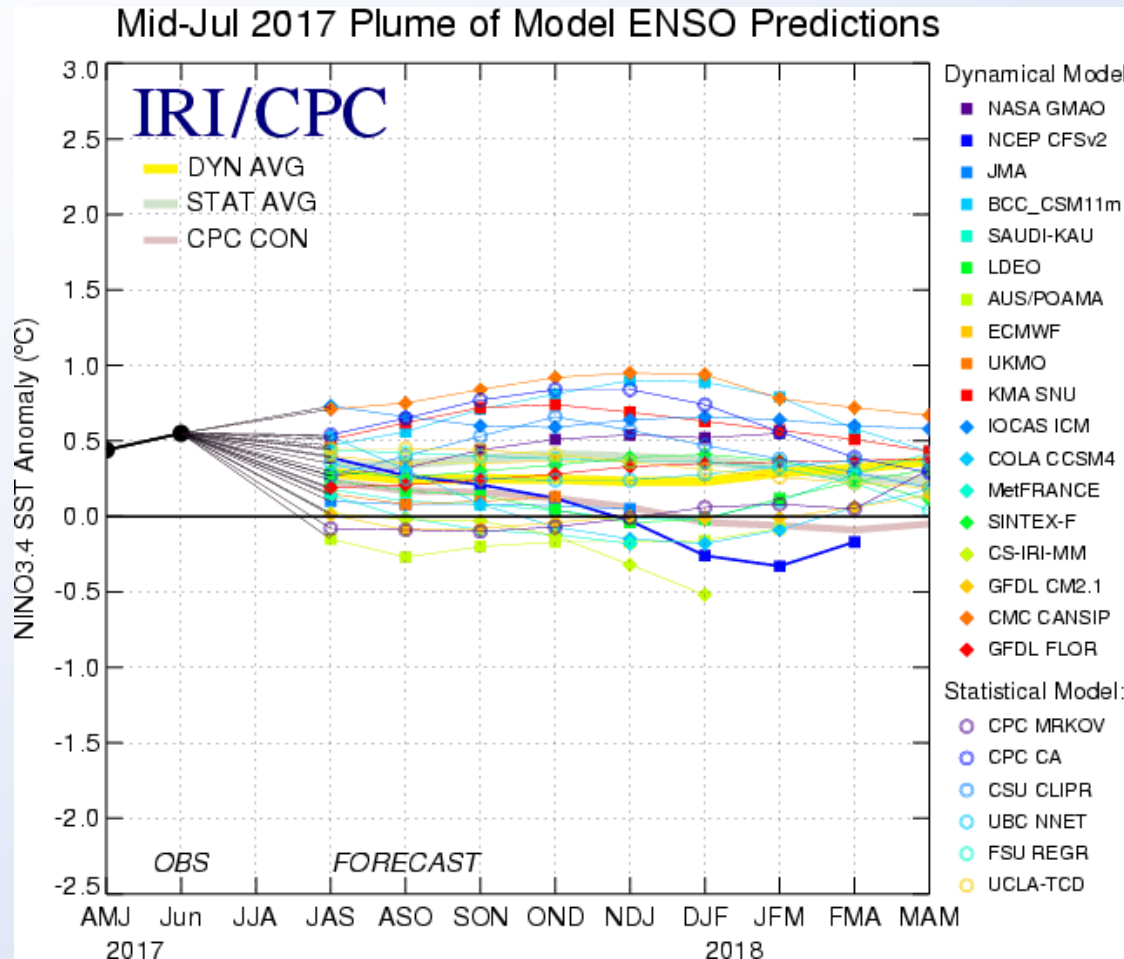
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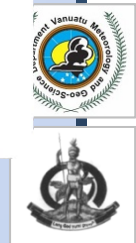
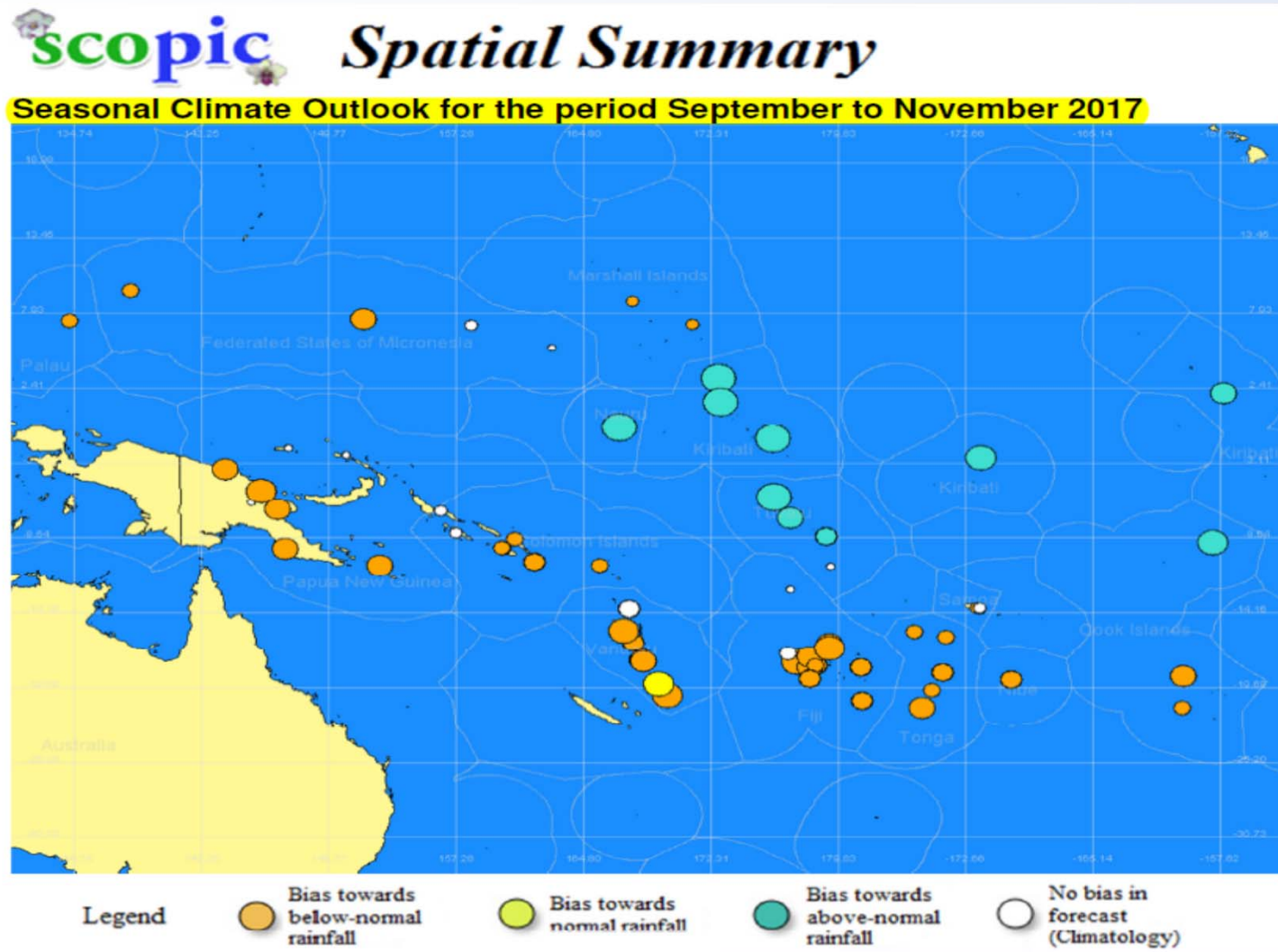
Base period 1981-2010





ENSO Predictions



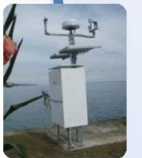




Summary

- **SCOPIC (SST) - Below normal to normal rainfall is favored for the period Sep – Nov 2017.**
- **POAMA - *Below normal* rainfall is favoured for all stations for the coming three months.**
- **ENSO remains neutral for the next 3 months**





Thank you Tumas.

