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# Fiji Islands Weather Summary June 2005 Rainfall Outlook till September 2005

### FIJI METEOROLOGICAL SERVICE

#### IN BRIEF

Exceptionally heavy rainfall was received almost throughout the country in the second week of June. Most of the rainfall occurred was during 6th to 12th which resulted from an active trough passing over the country. The rest of the month was exceptionally dry.

Western Division received average to well above average rainfall ranging from 86% - 268% of Normal rainfall. Central and Northern Division received average to above average rainfall. The Eastern Division received above average to well above average rainfall except which received only 57% of Normal rainfall.

Some sites around the country which received well above average rainfall were Lakeba, Yasawa-I-Rara, Viwa and Rotuma which received 316%, 268%, 254% and 220% of *Normal* rainfall. respectively.

WEATHER PATTERNS

Day-Time and Night-Time Air Temperatures were generally below average across the country with a new low Night-Time Air Temperature of 15.8°C recorded at Ono-I-Lau on the 12th.

Below average Sunshine hours were recorded in Nadi and Laucala Bay, Suva. Nacocolevu received 102% of Normal sunshine.

In the latest survey of the General Circulation Models (GCM), ten models out of twelve favour neutral temperature patterns till November 2005.

Based on model predictions and current ocean and atmospheric conditions, most parts of the country can expect Below Average to Average rainfall for the next three months.

Sites in the Central and Eastern Division are more likely to receive near average rainfall.

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rainfall.

A ridge of high pressure extended over Fiji from the 1<sup>st</sup> to the 4<sup>th</sup> of June bringing dry southeast winds over the group. A trough pressure system developed within the 11th. trough and the whole system moved south east of Fiji on the 11<sup>th</sup>.

Relatively cool and dry southeast trades Another ridge extended over the group from dominated most of June but were inter- the south from later on the 11<sup>th</sup> bringing fine rupted by an active trough which brought weather and cool change until the 18th. The wet-season-like conditions with humid air- Eastern parts received light trade showers flow and widespread heavy rain during the until the 15th. Another weak ridge dominated second week on the month. A few weak the country's weather from 20<sup>th</sup> till the 25<sup>th</sup>. fronts also crossed the southern parts of the A weak front moved close to Fiji on the 26<sup>th</sup> country but with no significant effect on the and caused light afternoon showers about the southern parts on the 27th. A ridge followed the front and dominated the try's weather with fine conditions from 29<sup>th</sup> till the end of the month.

developed to the northeast and moved over June was another wet month for Rotuma as the country on the 7<sup>th</sup>, bringing widespread the convergence zone remained close to the rain with heavy falls till the 10<sup>th</sup>. Vunisea island. Significant rain with more than reported the highest 24 hour rainfall of 147 100mm of 24 hour rainfalls was recorded on mm on the 9<sup>th</sup> followed by Suva and the 1st, 8<sup>th</sup> and 11<sup>th</sup> of June. The highest 24 Nabukulau with 143 mm on the 10<sup>th</sup>. A low hourly rainfall recorded was 118 mm on

#### **TABLE 1: RAINFALL FROM APRIL TO JUNE 2005**

Station	Actual Rainfall	Rainfall in the last three months (Below Average,	No. of Rain days in Apr 05	No. of Rain days in May 05	No. of Rain days in June 05			
Penang Mill	660.0	Above Average	22 (84)	10 (01)	11 (15)			
Monasavu Dam	1085.1	Average	28 (66)	17 (14)	14 (20)			
Vatukoula Mine	506.0	Above Average	14 (74)	02 (01)	7 (25)			
Rarawai Mill, Ba	482.3	Above Average	16 (80)	01 (0)	5 (20)			
Yasawa-I-Rara	605.9	Above Average	17 (60)	07 (04)	6 (36)			
Viwa Island	564.5	Above Average	17 (68)	03 (01) 5 (31)				
Lautoka (FSC Res.)	539.3	Above Average	20 (83)	02 (01)	5 (16)			
Nadi Airport	505.6	Above Average	19 (84)	02 (0)	6 (16)			
Nacocolevu, Sigatoka	-	-	15	02	-			
Tokotoko, Navua	929.8	Average	25 (67)	14 (09)	15 (24)			
Laucala Bay, Suva	774.2	Average	26 (61)	15 (08)	19 (31)			
Nausori Airport	646.8	Average	26 (61)	17 (11)	14 (28)			
Nabouwalu	502.4	Average	26 (68)	17 (12)	16 (20)			
Labasa Airport	421.4	Average	11 (70)	02 (02)	6 (28)			
Savusavu Airport	369.6	Below Average	18 (63)	07 (06)	9 (31)			
Udu Point	609.7	Average	24 (61)	15 (04)	15 (35)			
Matei Airport	691.0	Average	22 (61)	09 (07)	12 (32)			
Lakeba Is.	661.1	Above Average	22 (54)	15 (09)	8 (37)			
Matuku Is.	340.5	Below Average	12 (40)	10 (15)	7 (45)			
Ono-I-Lau Is.	-	-	17	08	-			
Vunisea, Kadavu	1087.0	Well Above Average	24 (72)	15 (25)				
Rotuma	1317.6	Above Average 28 (31) 21 (30)						

#### **RAINFALL IN THE LAST THREE MONTHS**

#### Rainfall in June

Rainfall in June was generally average to above average across the country except for Levuka, Ovalau which received only 57% of *Normal* rainfall.

Most of the month had fine weather except for some heavy rainfall received in the 2nd week of the month as a result of the trough which developed to the Northeast and moved over the country on the 7<sup>th</sup>, bringing widespread rain with heavy falls and moist northeasterlies till the 10<sup>th</sup>.

Rainfall in the Western Division ranged from 86%-268% of *Normal*, 142%-316% of *Normal* in the Eastern Division, 116%-150% of *Normal* in the Central Division and 97%-182% of *Normal* in the Northern

Division.

# **Forecast Verification**

#### Rainfall in the 3-months from April to June 2005

The Rainfall Outlook for the period April to June in the March Fiji Islands Weather Summary was for rainfall to be *average to below average* across most of the country. The confidence level of the forecast was *moderate to low*.

Out of the twenty sites that reported in time for this summary, two sites received below average rainfall, eight sites received average rainfall and nine sites received above average rainfall and Vunisea was the only site that received well above average rainfall.

Figure A

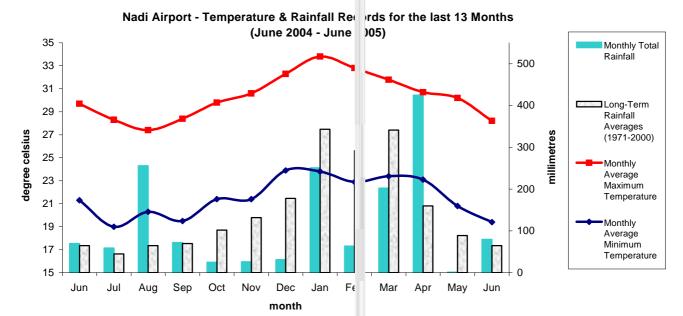


Figure B

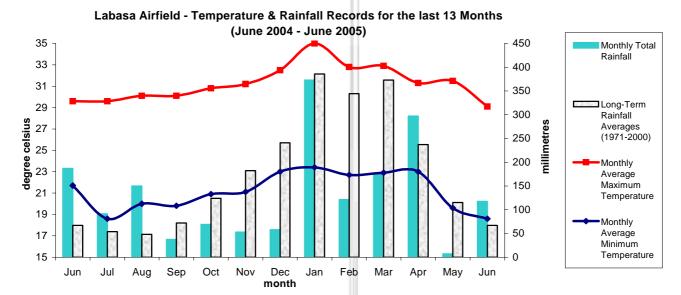
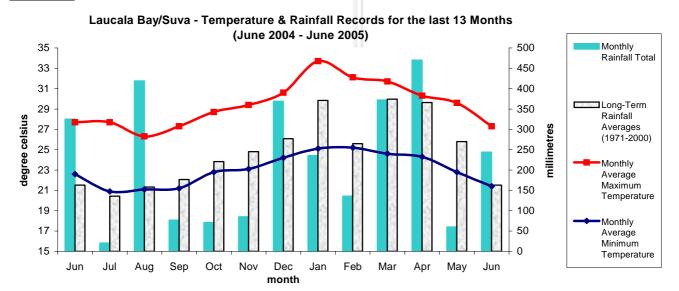


Figure C



#### Climate in June 2005

#### MEAN DAY-TIME AND NIGHT-TIME AIR TEMPERATURES AND RELATIVE HUMIDITY AT 0900HRS.

Day-Time Air Temperatures were generally below average Nausori Airport which recorded 2.1°C, 1.6 °C and 1.1°C across the country. The greatest negative departure respectively below average. -0.8°C was recorded at Nadi Airport, followed by Udu Pt. and Ono-I-Lau which recorded 0.7°C below Normal. The greatest positive departure of 0.3°C was recorded at Viwa.

The Night-Time Air Temperatures were generally below tive departures were recorded at Matuku +5% average with a new low Night-Time temperature of 15.8°C Nacocolevu +3% and Viwa +2%. recorded on the 12th at Ono-I-Lau. The greatest negative departures were recorded at Ono-I-Lau, Udu Point and

Relative Humidity (RH) at 0900hrs were mostly below normal across the country. The greatest negative departures from Normal were recorded at Rarawai Mill -7%, Laucala Bay, Suva -5% and Lautoka Mill -4%. The greatest posi-

#### **SOIL MOISTURE AND RUNOFFS**

Soil moisture conditions varied throughout the month. The Rotuma had excess to ample soil moisture conditions beginning and ending of the month were drier.

to dry at the beginning and end of the month and excess to sites around the country. Significant runoffs during the ample in the middle of the month. This pattern was month were recorded at Rotuma (428.1mm), Vunisea excess to ample conditions throughout the month.

In the Central Division and Northern Divisions soil moisture conditions were limiting to dry at the beginning of the month, excess to ample in the middle of the month and ample to moderate at the end of the month.

In the Eastern Division soil moisture conditions at the beginning on the month were generally limiting to dry. Excess to ample conditions prevailed in the middle of the month and ample to moderate conditions at the end of the month.

#### **SUNSHINE, RADIATION & WINDS**

(95%) and Laucala Bay (94%). The only site that recorded MJ/M<sup>2</sup>. above average sunshine was Nacocolevu which recorded 102%.

Rotuma was 18 MJ/M<sup>2</sup>, Nacocolevu recorded 13 MJ/M<sup>2</sup>,

throughout the month.

In the Western Division conditions were generally limiting Runoffs during the month were recorded at most of the common for most sites except Monasavu which recorded (171.1mm), Monsavu (159.1mm), Lakeba (147.4mm), Laucala Bay, Suva (140.5mm), Yasawa-I-Rara (128.0mm) and Tokotoko, Navua (120.4mm).

Total sunshine hours were below average at Nadi Airport Nadi Airport recorded 12.4 MJ/ M<sup>2</sup>, Suva recorded 12.3

Monthly average wind speed was well below average to above average during the month. Nadi and Nausori Airport Global Solar Radiation (average per day) recorded at above average winds. Vunisea and Nabouwalu and Rotuma recorded below average winds.

**TABLE 2: RECORDS SET IN JUNE 2005** 

<u>Element</u>	<u>Station</u>	Observed (record)	<u>On</u>	<u>Rank</u>	Previous Year (record)		Records Began	
Dly Rainfall	Viwa	98.7 mm	10th	New One Day High	72.7 mm	1992	1978	
Dly Rainfall	Vunisea	146.6 mm	9th	New One Day High	116.0 mm	1984	1943	
Min Temp	Udu Point	21.5°C	-	New Low Mly Average	22.1°C	1990	1951	
Min Temp	Ono-I-Lau	15.8°C	12th	New Night Time Low	16.5℃	1987	1943	
Min Temp	Ono-I-Lau	19.3	-	New Low Mly Average	19.5	1994	1943	

## **ENSO status and Rainfall Outlook to September 2005**

### **ENSO UPDATE** EL NIÑO - SOUTHERN OSCILLATION

The Southern Oscillation Index (SOI) for June was 2.6 east. The preliminary analysis for June shows no positive (April was -14.2) with the five-month running mean of -10centred on April (March was -11) (see Figure D below). After strong signals were observed in a number of El Niño indicators during February, March brought a general easing in the tropical Pacific atmosphere and to a lesser extent on ocean surface temperatures. The change in the atmosphere saw a rapid rise in the SOI becoming positive during early April and then falling through May but in June the SOI has risen again gaining positive values.

Sea surface Temperature (SST) data for June show weakly positive anomalies across most of the tropical Pacific, though no area along the equator has SST anomalies above 1°C. During late April, a rapid warming in the eastern Pacific resulted in response to the surface Kelvin wave, however SST anomalies in the Pacific displayed a general cooling trend as the impact of Kelvin wave in April declined. In contrast the SST's in the central Pacific have showed little change during June.

Positive anomalies generally in order of +0.5°C to +1.0°C range are evident across much of equatorial Pacific and in the tropical Pacific to the south of equator, especially to the east. Recently, in the far-eastern equatorial Pacific, areas of negative anomalies along the coast of South America have increased slightly in size, whilst on the equator, small areas of FMS for interpretation. (The ENSO Update is propositive anomalies greater than +1.0°C have developed.

The sub-surface temperature data for June suggests that nega-

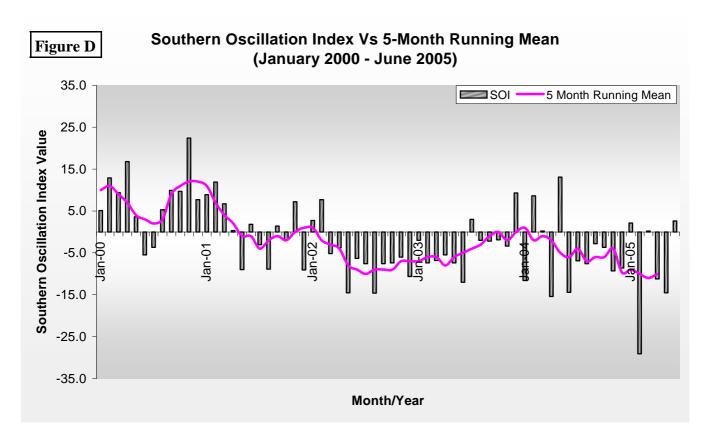
tive anomalies in the eastern Pacific have propagated to the

anomalies in the subsurface in the far-east. However, during late June these negative anomalies in the eastern have further weakened

Despite moderating some of the indicators, the SST remain warmer than average in most parts of the tropical Pacific, however SOI has displayed a steady rising trend. Conditions in the equatorial Pacific Ocean and its overlying atmosphere continue to suggest that, while some (but not all) indicators remain near El Niño thresholds, there is little sign of development of a basin wide event for the rest of the dry season. Moreover, history shows that the risk of an El Niño occurring during the remainder of the year will reduce rapidly.

In the latest survey of General Circulation Models (GCM), ten favours neutral temperature patterns till November 2005, one suggests warm (El Niño) conditions, with one predicting cold conditions. There is roughly an even split between models indicating the central Pacific remaining on the warm side of average and those predicting cooler than normal temperatures.

For more information visit website http://www.bom.gov. au/climate/tropnote/tropnote.shtml. Please contact the vided by the Australian Bureau of Meteorology and visit the website http://www.bom.gov.au) for a detailed



#### RAINFALL PREDICTIONS

FMS currently uses "The Seasonal Climate Outlook for The model is giving a higher probability for rain-Pacific Island Countries (SCOPIC) Model" for seasonal rainfall guidance which has replaced FMS Model (Figure E): Predictions from this refined model are expected to be much better than the previous FMS model.

The **SCOPIC** software system analyses the current sea surface temperature patterns across the Pacific Ocean and then finds the most similar patterns experienced **RAINFALL OUTLOOK FOR FIJI ISLANDS** throughout the available historical period.

For a particular location, the subsequent rainfall received in historical period is then used to construct a rainfall forecast for the next three month period in a form of a tercile probability distribution. It also allows for the predictor period to be varied to produce the maximum skills.

The SCOPIC model predicts that rainfall is most likely to be **below average** in the Western and Northern Divisions while rainfall is likely to be below average to average in is low to moderate. the Central and Eastern Division for the upcoming three months.

fall to be above average for Rotuma for the upcoming three months.

(See figure E for site specific forecast and Figure F for their locations).

# **JULY TO SEPTEMBER 2005**

Based on model predictions and current ocean and atmospheric conditions, most parts of the country can expect rainfall to be Below Average to Average for the next three months.

Sites in the Central and Eastern Division are more likely to receive near average rainfall.

**NOTE:** The confidence level of this prediction

#### PRELIMINARY CLIMATOLOGICAL SUMMARY FOR JUNE 2005

	RAI	IFAL]	L			AI	R TEM	PERAT	JRES				SUNSI	HINE
TOTA	AL I	RAIN	MAX.		I	AVERA	GE DA	ILY	ΕΣ	KTRI	EME		TOTA	λL
	* I	DAYS	FALI		MAX	. #	MIN.	#	MAX.		MIN.			*
MM	%	+	MM	ON	C	С	С	С	С	ON	С	ON	HRS	왕
														95
														94
49	65	8		_	27.9	-0.5	19.2	0.5	32.0	26	14.6	17	151	102
		22	118	11	29.7	0.1	24.5	-0.2	31.4	5	22.6	12		
171	254	5	99	10	28.7	0.3	23.3	0.1	29.8	4	20.5	18		
212	182	15	85	9	28.0	-0.7	21.5	-1.6	29.7	22	19.4	10		
118	175	6	64	9	29.1	-0.6	18.6	-0.3	31.4	26	14.4	17		
101	103	16	42	9	27.3	0.2	22.6	0.0	28.7	19	20.5	17		
114	97	9	53	9	27.3	-0.6	22.0	0.4	31.0	12	20.0	30		
218	176	12	98	9	27.6	-0.4	22.2	0.0	29.5	21	19.0	15		
220	268	6	88	10	28.4	0.1	22.5	-0.6	30.2	20	20.2	16		
125	171	7	56	10	29.3	-0.4	19.1	0.6	31.5	24	15.4	17		
221	86	14	85	10	21.4	-0.4	15.7	-0.4	25.0	24	11.2	17		
181	120	14	120	10	26.8	-0.4	19.4	-1.1	29.1	25	15.0	17		
227	116	15	120	10	26.3	-0.5	19.4	-0.8	29.5	12	14.3	17		
92	57	14	50	10	u/s		21.3	-0.9	u/s		18.0	17		
246	316	8	108	11	26.6	-0.6	21.4	-0.6	28.5	12	16.3	17		
154	142	7	63	9	26.7	-0.2	22.7	1.0	29.0	25	19.6	5		
273	218	15	147	9	26.0	-0.6	20.4	-0.1	28.6	25	16.5	17		
106	119	8	44	9	25.2	-0.7	19.3	-2.1	27.1	26	15.8	12		
97	108	5	44	10	29.5	-0.5	17.5	-0.5	32.0	24	13.4	16		
88	122	5	59	10	28.4	-0.4	20.2	-0.5	30.2	4	16.8	16		
101	102	11	47	10	27.9	0.2	20.1	-1.3	29.6	1	17.4	15		
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AVERAGE DAILY EXTREME  * DAYS FALL MAX. # MIN. # MAX. MIN.  MM % + MM ON C C C C C C ON C ON  80 123 6 54 10 28.2 -0.8 19.4 0.2 30.2 1 15.5 17  244 150 19 143 10 27.3 -0.4 21.4 0.0 29.9 25 17.7 18  49 65 8 21 9 27.9 -0.5 19.2 0.5 32.0 26 14.6 17  514 220 22 118 11 29.7 0.1 24.5 -0.2 31.4 5 22.6 12  171 254 5 99 10 28.7 0.3 23.3 0.1 29.8 4 20.5 18  212 182 15 85 9 28.0 -0.7 21.5 -1.6 29.7 22 19.4 10  118 175 6 64 9 29.1 -0.6 18.6 -0.3 31.4 26 14.4 17  101 103 16 42 9 27.3 0.2 22.6 0.0 28.7 19 20.5 17  114 97 9 53 9 27.3 -0.6 22.0 0.4 31.0 12 20.0 30  218 176 12 98 9 27.6 -0.4 22.2 0.0 29.5 21 19.0 15  220 268 6 88 10 28.4 0.1 22.5 -0.6 30.2 20 20.2 16  125 171 7 56 10 29.3 -0.4 19.1 0.6 31.5 24 15.4 17  221 86 14 85 10 21.4 -0.4 15.7 -0.4 25.0 24 11.2 17  181 120 14 120 10 26.8 -0.4 19.4 -1.1 29.1 25 15.0 17  227 116 15 120 10 26.3 -0.5 19.4 -0.8 29.5 12 14.3 17  92 57 14 50 10 u/s 21.3 -0.9 u/s 18.0 17  246 316 8 108 11 26.6 -0.6 21.4 -0.6 28.5 12 16.3 17  154 142 7 63 9 26.7 -0.2 22.7 1.0 29.0 25 19.6 5  273 218 15 147 9 26.0 -0.6 20.4 -0.1 28.6 25 16.5 17  106 119 8 44 9 25.2 -0.7 19.3 -2.1 27.1 26 15.8 12  97 108 5 44 10 29.5 -0.5 17.5 -0.5 32.0 24 13.4 16	TOTAL RAIN MAX.

### SCOPIC Model (Seasonal Climate Outlook for Pacific Island Countries Model)

#### FIGURE E

Three Month Forecast for Selected Stations in Fiji using the SCOPIC Model

The forecast probabilities are presented as

#### DRY/NORMAL/WET

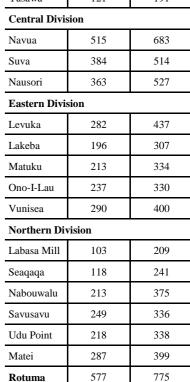
'DRY' range refers to rainfall less than 33rd percentile.

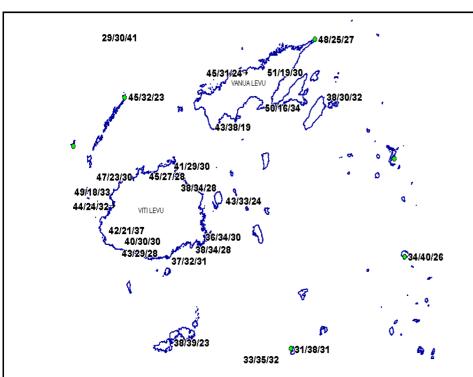
'NORMAL' (average) range refers to rainfall between 33rd and 67th percentiles.

'WET' range refers to rainfall above 67th percentile.

# Reference Table for 33rd and 67th Percentile

Station	33% (mm)	67% (mm)					
Western Division							
Dobuilevu	207	287					
Vatukoula	124	212					
Rarawai	105	215					
Penang	148	232					
Lautoka	109	218					
Nadi	129	205					
Lomawai	137	245					
Nacocolevu	193	273					
Olosara	199	316					
Yasawa	121	191					
Central Division							
Navua	515	683					





Please note that the probabilities are listed beside the corresponding station marker or dot.

# **FIGURE F**Reference Map of selected Climate/Rainfall sites in Fiji

Rotuma ● 12 30S 177 35E Seaqaqa∑	Udu Point Korowiri	
Yasawa-i-Rara Nabouwalu	Matei Savusavu <sup>n</sup>	•
Vatukoula Rarawai Dobuilevu Lautoka Nadi	)	- C,
Lomawar Nacocolevu Nausori Olosara Navua	5	o <b>©</b> Lakeba
·.ø	8	
Vunisea Ono-i-L au ● 20 40S 178 43W	ි •§Matuku	o°. ~

Note: This summary is prepared for rapid dissemination as soon as possible following the end of the month. The quantitative data are obtained daily on the phone or radiotelephone from a network of climate stations reporting 9 am observations; these data must be treated as provisional. FMS does not guarantee accuracy and reliability of the forecast information presented in this summary but the Department should be sought for expert advice, any clarification or additional information. Any person wishing to re-print any information provided in this summary must seek permission from the Director of Meteorology.