Volume 3: Issue: 7 August 2003

Fiji Islands Weather Summary August 2003 Rainfall Outlook till November 2003

FIJI METEOROLOGICAL SERVICE In Brief

August was cooler and drier then normal.

Apart from parts of the Western Division and

Rotuma rainfall for most of the country was below average and in some cases well below

Matei has now recorded seven, Ono-I-Lau

five and Savusavu Airport four consecutive months of below average rainfall. Well below

average rainfall in the last three months has

also been recorded at Labasa Airport and

Below average rainfall has been received in

the last three months at Monasavu with last

months rainfall being the second lowest on record. This certainly wouldn't have provided

any relief to the situation reported in the me-

dia recently of very low water levels, even

lower than last year at the Fiji Electricity Authority Monasavu Dam. Monasavu has to the

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Weather Patterns

average.

Penang Mill (Rakiraki).

The cool and dry trend continued throughout August. Rainfall appeared significantly reduced. Cold fronts were a little more prevalent. Pressure Surges caused Wind Warnings for certain areas of the Fiji Waters on several occasions during the month.

In the first three days of the first week, a weak cold front moved across Fiji from the southwest, bringing a few light showers over the country. However, behind the front was a ridge, which helped gradually displace the front and associated showers north of the Group. This ridge maintained cool and dry weather over the country from the 6^{th} till the 9th

On the 9th, a trough of low pressure began to move onto the Group from the north and caused rain over most places till the 11th. The trough eventually cleared the country on the 12th, being displaced east by an intense ridge from the southwest. This ridge brought cool and dry conditions from origins far to the south of Fiji till the 17th. Subsequently, on the 15th, Labasa recorded the lowest temperature of 10.7 degrees Celsius for the month.

end of August received 87% of normal rainfall this year.

Both night and daytime average air temperatures were generally below average across the country. **Relative Humidity** showed a similar trend.

Total sunshine hours ranged from below average to average for the month of August.

Rainfall in the next three months is predicted to be generally below average to average over most of the Fiji Group, however the amount of rainfall received in the coming months should increase compared to present as the country approaches the Wet season.

From the 18th, another trough moved across Fiji from the west. In response to this, a convergence zone to the north also drifted onto the Group and together produced widespread rain till the 21st. Later on the 21st and 22nd, a second weak cold front brushed past the country. Following this front was yet another ridge which lingered over Fiji till the 27th and subsequently produced the third episode of cool and dry conditions over the country for the month.

A third weak cold front moved across Fiji on the 28th but did not cause any significant precipitation. Fine conditions prevailed over the Group till the end of the month.

Rotuma recorded some significant rainfall in August, due mainly to the convergence of cool southeasterlies and moist northeasterlies over the island and the occasional convergence zone. However, there were more dry days in August than either June or July.

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<u>Station</u>	<u>Actual</u> <u>Rainfall (mm)</u>	Has rainfall in the last three months been below average, average or above average?	<u>No. of Rain</u> days in June (% of total rain)	<u>No. of Rain</u> days in July (% of total rain)	<u>No. of Rain</u> <u>days in August</u> (% of total rain)
Penang Mill	84.9	Well Below Average	08 (22)	07 (29)	05 (49)
Monasavu Dam	550.3	Below Average	25 (39)	23 (36)	12 (25)
Vatukoula Mine	149.9	Average	10 (53)	06 (10)	07 (37)
Rarawai Mill, Ba	119.0	Below Average	06 (34)	03 (05)	04 (61)
Yasawa-I-Rara Is.	-	-	-	-	-
Viwa Is.	176.8	Average	04 (39)	04 (07)	08 (54)
Lautoka Mill(Research)	229.1	Above Average	04 (36)	03 (06)	06 (58)
Nadi Airport	155.7	Average	04 (19)	04 (19)	06 (62)
Nacocolevu, Sigatoka	171.2	Below Average	06 (11)	09 (57)	05 (32)
Tokotoko, Navua	334.7	Below Average	20 (44)	17 (29)	12 (27)
Laucala Bay, Suva	281.4	Below Average	19 (30)	25 (35)	21 (35)
Nausori Airport	285.6	Below Average	20 (26)	23 (45)	12 (29)
Nabouwalu	160.2	Below Average	22 (30)	18 (42)	13 (28)
Labasa Airport	39.6	Well Below Average	04 (35)	04 (51)	03 (14)
Savusavu Airport	126.6	Well Below Average	06 (19)	14 (54)	09 (27)
Udu Point	-	-	-	-	-
Matei Airport	107.9	Well Below Average	08 (39)	16 (54)	06 (07)
Lakeba Is.	319.6	Above Average	15 (42)	13 (41)	08 (17)
Matuku Is.	-	-	-	-	-
Ono-I-Lau Is.	89.9	Well Below Average	05 (23)	08 (37)	07 (40)
Vunisea, Kadavu	255.2	Below Average	19 (33)	18 (53)	10 (14)
Rotuma	919.9	Above Average	21 (32)	25 (33)	13 (35)

TABLE 1: Rainfall from June to August 2003

Rainfall in the last three months

Rainfall in August

Rainfall in August ranged from well below average to above average. Matei has now recorded seven, Ono-I-Lau five and Savusavu Airport four consecutive months of below average rainfall.

Rainfall in the Western Division and Rotuma was generally average to above except for Nacocolevu and Penang Mill which recorded below average rainfall.

In the Northern and Eastern Divisions the rainfall trend was similar to the previous month with well below (Labasa, Savusavu and Matei Airports, Vunisea and Ono-I-Lau) to below average (Nabouwalu and Lakeba).

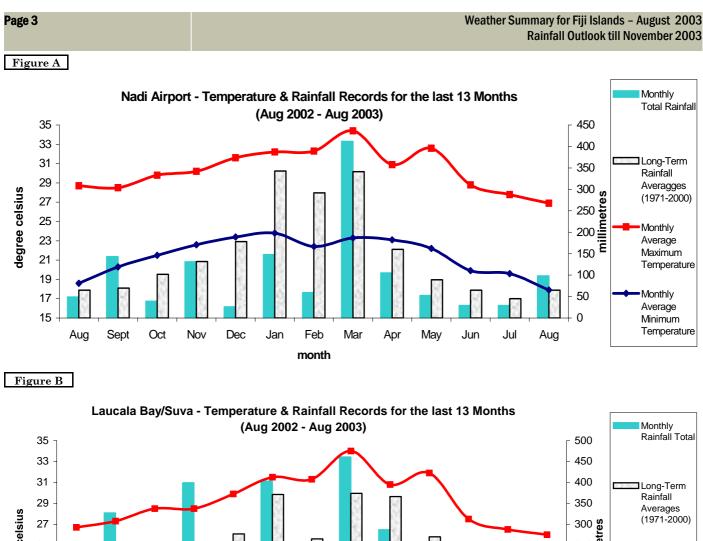
below average with Tokotoko, Navua recording well below average.

Rainfall in the three-months from June to August

The Rainfall forecast for the period June to August in the May Fiji Islands Weather Summary was for rainfall to vary around average. The skill level of the forecast was low due to the forecast period being in the Dry Season.

Of the nineteen sites that reported in time for this summary, five sites reported well below average, eight sites below average, three average and three above average.

In the Central Division including Monasavu rainfall was



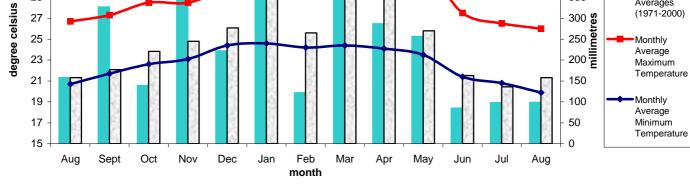
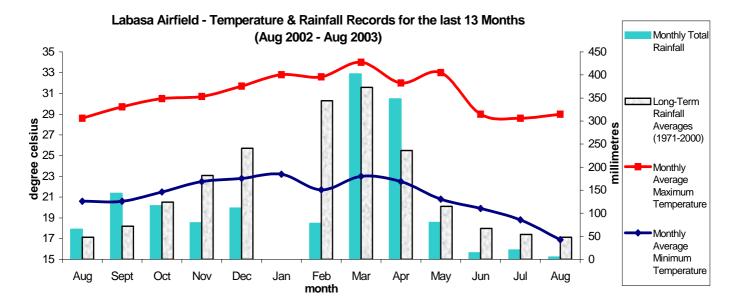


Figure C



Climate in August

Mean Day-time and Night-time Air Temperatures and Relative Humidity at 0900hrs.

Day-time temperatures were generally below average at Nausori Airport/Lakeba which recorded 2.9, 1.8 and all recording sites across the country. The greatest posi- 1.4°C respectively below normal. tive departures from normal wre recorded at Rotuma and Ono-I-Lau which recorded 0.5 and 0.7°C respectively Relative Humidity (RH) at 0900hrs was generally averabove normal. The greatest negative departures were at age to below average at all recording sites except Nadi Nadi Airport, Vatukoula and Ba which recorded 1.8, 1.7 Airport and Nacocolevu. The greatest positive deparand 1.6°C respectively below normal.

Night-time temperatures were also generally below aver- Penang Mill. age at all recording sites across the country. The greatest positive departures from normal were recorded at Vatukoula and Savusavu Airport which recorded 0.8 and 0.2°C respectively above normal. The greatest negative departures were at Penang Mill, Labasa Airport and

Soil Moisture and Runoffs

moderate throughout the month in the Central Division. weeks then moderate during the last week.

In the Western Division, soil moisture was limiting to The only significant runoffs were recorded at Rotuma dry throughout the month except for Nadi Airport, (206.1mm) and Monasavu (83.7mm). Lautoka, Ba and Viwa during the third week (and fourth week in the case of Lautoka) when conditions were ample to moderate. Soil moisture returned to limiting to dry for the other sites during the last week.

In the Northern Division, soil moisture was limiting to dry at all recording sites throughout the month.

In the Eastern Division, soil moisture ranged from moderate to dry except for Ono-I-Lau were it was limiting to dry throughout the month.

Sunshine, Radiation & Winds

Nacocolevu 88% and Rotuma 107% of normal.

Global Solar Radiation recorded at Nadi Airport was 14.3MJ/Square metre and 10.0MJ/Square metre at Laucala Bay/Suva.

Element	<u>Station</u>	Observed (record)	<u>On</u>	Rank	<u>Previous</u> (record)	<u>Year</u>	<u>Records</u> <u>Began</u>
Max Temp	Monasavu	15.5	4th	Record Low	15.7	1985	1980
Min Temp	Penang Mill	11.3	14th	Record Low	11.7	1951	1930
Rainfall	Savusavu	7.6		Second Mly Low			1956
Rainfall	Monasavu	138.7		Second Mly Low			1980

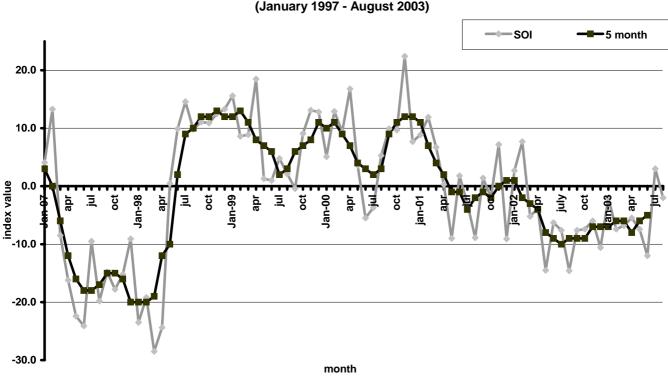
Records set in August 2003

tures was +6% at Nadi Airport and Nacocolevu and the greatest negative departure was -6% at Navua and

Soil moisture conditions were ranged from ample to Rotuma recorded excessive to ample for the first three

Total sunshine hours were below average to average. Average Wind speed was below average at Laucala Bay, Nadi Airport recorded 89%, Laucala Bay/Suva, 77%, Nausori Airport, Vunisea and Rotuma and around average at Nabouwalu and Nadi Airport.





Southern Oscillation Index vs 5-Month Means (January 1997 - August 2003)

ENSO status and Rainfall Outlook to October 2003

Southern Oscillation Index: The Southern Oscillation Index (SOI) for August was -1.8 (July was 3.0) with the fivemonth running mean of -5 centred on June (May was -6) (Figure D).

The tropical Pacific is currently in a Neutral state. The model outputs are overwhelmingly in favour of a continuation of this situation during the next eight months. One model out of twelve departs from this scenario. The CSIRO model predicts the weakest of Warm conditions in January 2004. The temperature trends in the model outputs vary from almost flat, to modest warming or cooling.

(The ENSO Update and SOI are provided by of the National Climate Centre, Australian Bureau of Meteorology and can be found at http://www.bom.gov.au)

FMS Rainfall Prediction Model: This model is based on schemes, which have run successfully at the Australian Bureau of Meteorology's National Climate Centre. These a statistical scheme based on the relationship between SOI and subsequent three-month rainfall totals. In each case the probability of low, medium or high rainfall in the oncoming three-month period is provided. The scheme uses the SOI averaged over the most recent three-month period. <u>The reliability of the model is high during the wet season (Nov-Mar) but decreases during the dry season (May-Sept) and during the transitions months, April and October.</u>

The model predicts rainfall to be generally below average to average for Fiji with average to above for Rotuma (Figure E).

Australian Rainman: This is a Rainfall Prediction Model was created from joint efforts between Australia Meteorological and Agricultural Agencies. The model incorporates the use of SOI to test its effects on the probability of rainfall in upcoming months. It shows the relationship between ENSO (El Niño - Southern Oscillation) events and rainfall. Due to public demand this model is currently used to present the probability of receiving rainfall in the coming individual months over a three-month period. Please note that the reliability of forecast for one month is lower than for a combined three month period.

The model predicts variable rainfall across the country and across the next three months (Table. 2).

Outlook for August to October 2003:

Based on the model predictions and current climatic conditions, Fiji's rainfall is likely to be generally below average to average.

NOTE: The confidence level in the outlook is 'low to moderate'.

Preliminary Climatological Summary for August 2003

PRELIMINARY CLIMATOLOGICAL DATA FOR MONTH 8 , 2003 : SUMMARY FOR DAYS 1 TO 31

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NADI AIRPORT SUVA/LAUCALA BAY NACOCOLEVU ROTUMA VIWA *UDU POINT LABASA AIRFIELD NABOUWALU SAVUSAVU AIRFIELD MATEI AIRFIELD *YASAWA-I-RARA VATUKOULA	I 1MM 37 34 41 39 Fau 36 35 34 36 5 34 36 Fau 37 26	MAX. DS 43 75 42 75 75 75 75 75 1ty 75 28	LA ON 1 29 4 AWS 1 6 1 8 AWS 7 31	ST DS 59 34 75 25 68 75 75 75 75 75	DEF 33 50 0 19 106 49 71 81 40	NO DYS 9 0 16 0 7 31 15 24 23 12 0	RO 0 206 0 0 0 0 0 0 0 0	NO DYS 0 0 0 5 0 0 0 0 0 0 0 0 0 0 2	DLY MEZ 22 23 21 26 24 23 23 23 23 23 23 17	Y AN .4 .0 .6 .8 .6 .8 .6 .9 .0 .5	DRY (A ¹ 22.) 22.) 22.) 24.) 24.) 24.) 24.) 24.)	W VER. 5 1 9 2 1 2 5 2 7 2 5 2 7 2 5 2 1 2 2 2 5 2 1 2 9 1 1 4 1	ET AGE 9.6 0.4 4.0 1.1 1.0 0.9 1.0 1.7 9.7 5.9	RH% AT 75 80 86 74 72 74 74 74 74 74 74 74 84	$ \begin{array}{c} 5 \\ 5 \\ 2 \\ 5 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2$	VP M) 22.5 22.9 22.3 22.4 22.3 22.5 22.5 23.8 9.7 6.9	5 5 9 3 1 1 3 3 5 3 3 7 9	кт 5.3 3.8 8.8	%01 POS 60 32 48	F MJ/ SQ.M 14.3 10.0 15
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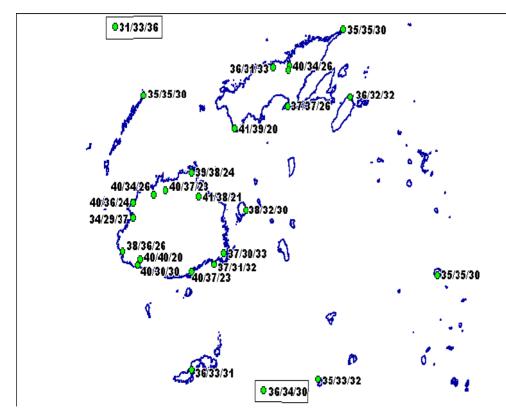
DS IS SOIL MOISTURE DEFICIT,LIMIT 75 MM; RO IS WATER SURPLUS (INDEX OF RUNOFF) DEF (AE-PE) IS EVAPOTRANSPIRATION DEFICIT (INDEX OF IRRIGATION WATER NEEDED. PE IS LONG TERM MEAN PENMAN POTENTIAL EVAPOTRANSPIRATION (CALCULATED OR ESTIMATED). MEAN TEMPERATURE IS (MAX+MIN)/2; WIND IS MEAN SPEED AT 06,12,18,24 HOURS. \$:SOLAR RADIATION CALCULATED FROM SUNSHINE DURATION. # :DEPARTURE FROM NORMAL. + :NUMBER OF DAYS WITH 0.1 MM OR MORE RAIN. * :PERCENT OF NORMAL.

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. Water balance calculations are approximate and are intended for guidance purposes only. Also, 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.

Weather Summary for Fiji Islands – August 2003 Rainfall Outlook till November 2003

Three Month Rainfall Outlook Probabilities for September to November 2003

FIGURE E: Three Month Forecast for Selected Stations in Fiji using the Fiji presented as Meteorological Services Rainfall Prediction Model



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

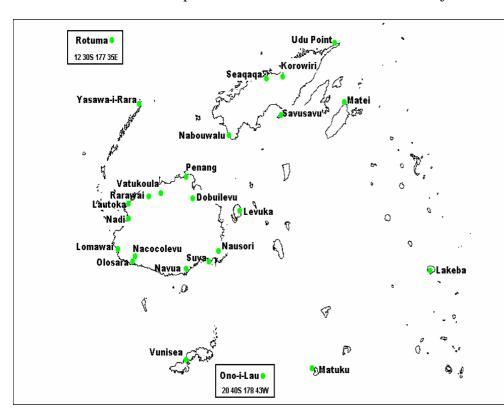


FIGURE F: Reference Map of selected Climate/Rainfall sites in Fiji

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 Div	Western Division										
Dobuilevu	365	514									
Vatukoula	207	352									
Rarawai	204	361									
Penang	237	351									
Lautoka	190	235									
Nadi	211	342									
Lomawai	192	336									
Nacocolevu	243	353									
Olosara	230	367									
Yasawa	190	367									
Central Divis	Central Division										
Navua	649	892									
Suva	441	742									
Nausori	432	684									
Eastern Divi	sion										
Levuka	355	546									
Lakeba	298	392									
Matuku	224	367									
Ono-I-Lau	200	347									
Vunisea	297	302									
Northern Div	vision										
Labasa Mill	244	370									
Seaqaqa	267	442									
Nabouwalu	352	506									
Savusavu	373	507									
Udu Point	377	561									
Matei	470	663									
Rotuma	728	927									

TABLE 3: Monthly Rainfall Outlook Probabilities for September to November 2003

	Sept	ember	Oc	tober	November			
Station Name			Average*	Probability [#]	Average*	Probability [#]		
Western Division								
Dobuilevu	119	36	153	65	220	40		
Vatukoula	78	33	99	50	150	22		
Rarawai	74	30	107	41	144	24		
Penang	96	44	114	44	160	48		
Lautoka	72	33	102	47	137	41		
Nadi	70	43	102	45	132	38		
Lomawai	71	30	71	47	145	42		
Olosara	103	32	91	40	123	26		
Nacocolevu	92	33	98	52	136	27		
Yasawa-I-Rara	66	44	105	32	129	44		
Central Division								
Navua - Tamanoa	229	42	280	53	306	65		
Suva	177	30	221	54	245	56		
Nausori	165	46	205	49	245	56		
Eastern Division								
Lakeba	101	49	123	54	142	37		
Ono-I-Lau	108	37	86	58	115	35		
Northern Division								
Korowiri	75	40	127	31	189	29		
Seaqaqa	82	36	142	38	209	30		
Nabouwalu	113	36	170	42	174	50		
Savusavu	133	24	171	32	188	43		
Udu Point	113	46	165	22	203	65		
Rotuma	238	50	340	38	282	61		

Please note that the above figures should be used with caution, as there is some degree of uncertainty associated with them, and particularly the reliability of the model is low during the transition months and the dry season.

* 'Long-term Average' for the 30 year period from 1971-2000.

Probability of expecting at least normal rainfall.