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Fiji Islands Weather Summary December 2003 Rainfall Outlook till March 2004

FIJI METEOROLOGICAL SERVICE

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Email: fms@met.gov.fj Web Site: www.met.gov.fj Wet conditions continued in December from the later part of the previous month. Rainfall was caused by the frequent passage of troughs or convergence zones across Fiji. Particularly heavy falls from afternoon showers and thunderstorms were experienced in the interior and western parts of Viti Levu. Most of the country received average or above average rainfall except Viwa, Labasa, Savusavu and Ono-I-Lau.

The rainfall deficiency as a result of the prolonged dry spell in 2003 continues to exist in parts of the Western, Northern and Eastern Division however conditions have eased and the deficiency is expected to dissipate in the coming months.

Sea surface temperatures in the equatorial western Pacific continued to be warmer than average in December. Atmospheric conditions remained *Neutral*. Overall, conditions

Weather Patterns

A convergence zone moved over Fiji from the northeast and brought rain to the entire country from the 1^{st} till the 5^{th} of December. This convergence zone moved east on the 6^{th} and a weak ridge moved over the country from the south till the 9^{th} . Weather during this period was characterised by brief showers about the eastern parts and afternoon showers elsewhere.

The ridge moved to the south of the country on the 10th. From the 11th till the 16th, two consecutive troughs moved across Fiji from the northeast to the west and brought rain to the northern and eastern parts. The western areas experienced heavy afternoon and evening showers and thunderstorms.

On the 17th, the second trough located to the west intensified, moved back over the country and produced widespread rain till the 19th. This trough weakened on the 20th but showers continued over the northern and eastern parts and the rest of Fiji experienced heavy afternoon showers and thunderstorms till the 23rd. Finally, the trough drifted to the north of Vanua Levu on the 24th.

are expected to remain near *Neutral* throughout the Southern Hemisphere summer.

Rainfall in Fiji Islands in the next three months is expected to vary around average. This means most sites are likely to receive average rainfall, while a few may receive below average or above average rainfall.

Day-time air temperatures varied around average while night-time temperatures were mainly average to above average. A new night-time high temperature record of 26.0° C was set at Tokotoko, Navua. Relative humidity also varied around average.

Total sunshine hours were below average at Laucala Bay, Suva and Rotuma and average at Nacocolevu and Nadi Airport.

Due to the trough's close proximity, Vanua Levu and Taveuni continued to experience occasional showers, while afternoon showers dominated Viti Levu's weather till the 26^{th} . The trough drifted back over country on the 26^{th} and this resulted in increased showers over the northern and eastern areas. Afternoon showers and thunderstorms affected the rest of the country. The trough over Fiji finally dissipated on the 29^{th} .

A moist east to southeast airstream settled over the country from the 29th till 31st December, in response to a developing tropical disturbance to the north-east of Fiji. This resulted in brief showers over the eastern areas and afternoon showers elsewhere.

The SPCZ remained close to Rotuma during December. The island received rainfall through most of the month.

Station	<u>Actual</u> Rainfall (mm)	Has rainfall in the last three months been below average, average or above average?	<u>No. of Rain</u> days in October (% of total rain)	<u>No. of Rain</u> days in November (% of total rain)	<u>No. of Rain</u> days in December <u>(% of total rain)</u>
Penang Mill	424.8	Average	02 (11)	11 (19)	20 (70)
Monasavu Dam	1349.9	Average	16 (20)	19 (20)	31 (60)
Vatukoula Mine	356.3	Average	03 (19)	09 (11)	14 (70)
Rarawai Mill, Ba	551.0	Above Average	02 (11)	09 (12)	18 (77)
Yasawa-I-Rara	-	-	-	-	-
Viwa Is.	211.4	Below Average	03 (18)	11 (41)	18 (41)
Lautoka Mill(Research)	313.7	Average	05 (24)	09 (17)	22 (59)
Nadi Airport	339.0	Average	03 (11)	10 (27)	13 (62)
Nacocolevu, Sigatoka	379.6	Average	05 (25)	06 (14)	27 (61)
Tokotoko, Navua	845.3	Average	12 (22)	20 (27)	24 (51)
Laucala Bay, Suva	581.1	Average	13 (29)	21 (14)	26 (57)
Nausori Airport	525.2	Below Average	13 (25)	18 (17)	31 (58)
Nabouwalu	659.6	Above Average	11 (10)	24 (43)	19 (47)
Labasa Airport	337.3	Below Average	09 (12)	10 (34)	23 (54)
Savusavu Airport	431.1	Below Average	08 (23)	14 (37)	25 (40)
Udu Point	511.9	Below Average	11 (17)	18 (20)	25 (63)
Matei Airport	613.0	Average	09 (06)	14 (13)	27 (81)
Lakeba Is.	335.3	Average	06 (16)	06 (21)	14 (63)
Matuku Is.	-	-	-	-	-
Ono-I-Lau Is.	168.6	Below Average	03 (24)	08 (58)	06 (18)
Vunisea, Kadavu	384.7	Average	09 (33)	11 (15)	19 (52)
Rotuma	803.9	Below Average	16 (27)	23 (37)	22 (36)

TABLE 1: Rainfall from October to December 2003

Rainfall in the last three months

Rainfall in December

Most of the country received average or above average rainfall except Viwa, Labasa & Savusavu Airports and Ono-I-Laul. In the Western Division rainfall ranged below average to above average (60-188%), below average to above average was recorded in the Northern Division (66-166%), well below average to average in the Eastern Division (23-117%) and average to above average in the Central Division (114-146%).

Rainfall in the 3-months from October to December

The Rainfall forecast for the period October to December in the September Fiji Islands Weather Summary was for rainfall vary around average with most of the rainfall expected in the later part of the Oct-Dec period. The confidence level of the forecast was moderate.

Of the twenty sites that reported in time for this summary, seven sites reported below average, eleven sites average and two sites above average rainfall.

The rainfall deficiency as a result of the prolonged dry spell in 2003 continues to exist in parts of the Western, Northern and Eastern Division however conditions have eased especially in the last month.



Figure B

Laucala Bay/Suva - Temperature & Rainfall Records for the last 13 Months (Dec 2002 - Dec 2003)



Figure C



Climate in December

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

Day-time temperatures varied around average across the recorded at Labasa Airfield and Vatukoula which both respectively above normal. The greatest negative departures corded 0.3°C respectively below normal. were recorded at Vunisea and Savusavu Airport which recorded 0.8 and 0.7°C below normal.

Night-time temperatures were mainly average to above av- I-Lau and Vunisea. The greatest negative departures were erage. The greatest positive departures from normal were recorded at Rarawai Mill - 4%, Penang Mill - 3%.

Soil Moisture and Runoffs

Soil moisture conditions varied considerably throughout to dry at Labasa. In the second half of the month condithe month and across the country.

In the Western and Eastern Divisions conditions ranged days when conditions were moderate. from limiting to dry to excessive to ample at different locations and at various times during the month.

In the Central Division conditions were excessive to ample moderate. throughout the month.

In the Northern Division (including Matei) conditions were Matei (329.7mm), Navua (284.4mm) and Rarawai excessive to ample during the first half of the month at Sa- (209.3mm). vusavu, Nabouwalu and Matei. Conditions were limiting

Sunshine, Radiation & Winds

Total sunshine hours were around below average to aver- Wind speed were above average at Nausori Airport and Nacocolevu 95% and Rotuma 77% of normal.

Global Solar Radiation (average per day) recorded at Nadi Airport was 17.9MJ/ M² and 17.2MJ/M² at Laucala Bay.

<u>Element</u>	<u>Station</u>	Observed (record)	<u>On</u>	<u>Rank</u>	Previous (record)	<u>Year</u>	<u>Records</u> <u>Began</u>
Min Temp	Tokotoko, Navua	26.0	27th	New High	25.7	1996	1992
Min Temp	Viwa	27.2	12th	Equal High		1987	1978

Records set in December 2003

country. The greatest positive departures were recorded at corded 1.8°C respectively above normal. The only nega-Nacocolevu and Viwa which recorded 0.8 and 0.6°C re- tive departure from normal was at Udu Point which re-

> Relative Humidity (RH) at 0900hrs varied around average. The greatest positive departure was +7% observed at Ono-

> tions were excessive to ample at across the whole of the Northern Division except for Savusavu during the last three

> Rotuma recorded excessive to ample conditions throughout the month except from the 18-22nd when conditions were

> Significant runoffs were recorded at Monasavu (690.0mm),

age. Nadi Airport recorded 81%, Laucala Bay/Suva, 79%, Lakeba, average at Vunisea and below average at Rotuma and Nadi Airport.

November to April 2003/04 Tropical Cyclone Season

The South Pacific Tropical Cyclone Season officially began on 1st November and will continue till 30th April 2004.

The chances of cyclone activity in the Fiji region this season are slightly higher than normal based on the prediction that Neutral conditions will continue through the season. The average number of cyclones that have affected Fiji (including pre-season events) since 1969/70 is between 1 and 2. However, there have been as many as six events such as in 1996/97.

Historical records of tropical cyclones affecting Fiji since the 1969/70 show that fourteen cyclones have affected Fiji in January with four of them causing severe damage. The years were 1970, 75, 78, 80, 81 (2 events), 82, 85 (2 events), 97, 98, 2000 (2 events) and 2003.

Prior to and during a cyclone information on the event and regular updates will be provided on the Fiji Met Service http://www.met.gov.fj website, via Poll fax and the media.





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

ENSO status and Rainfall Outlook to March 2004

The Southern Oscillation Index (SOI) for December was 9.8 (November was -3.4) with the five-month running mean of 0 centred on October (September was -1) (Figure D).

Overall, indicators suggest neutral-ENSO conditions are persisting. The SOI has been stable near zero for several months, though the late-December passage of a tropical cyclone just east of Darwin has resulted in a recent rise. Warm SSTs dominate the tropical Pacific Ocean and the standard SST indices of Nino 3 and 4 are warmer than normal. It should be noted though the near equatorial cool tongue remains well defined in the far east, and the warm pool is centred west of the dateline, a pattern consistent with neutral ENSO conditions.

Several ENSO model predictions from December 2003, which span the southern hemisphere autumn, indicate the continuation of neutral conditions, while some indicate the development of warm conditions. It should be noted though that historically models have little skill over this period.

(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>

Below average rainfall is predicted for the Western Division, western half of the Northern Division and parts of the Eastern Division. Other areas are predicted to received below average to average rainfall (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 a 34-69% chance (depending on location) of receiving average rainfall across Fiji in next three months (Table. 2).

Outlook for January to March 2004:

Based on the model predictions and 'neutral' conditions, Fiji's rainfall is expected to vary around average in the next three months.

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

Preliminary Climatological Summary for December 2004

	RAINFALL						AIR TEMPERATURES							S	SUNSHINE				
	TOTAL RAIN MAX. AVERAGE DAILY EXTREME								TOT	L									
			* DAY	ζS	FALL		MAX	. #		MII	л.	#	MAX	ζ.	M	EN.			*
	M	М	% +	F	MM (NC	С		С		С	С		CO	N	С	ON	HRS	00
NADI AIRPORT	21	1 1:	18 22	2	40	5	31.3	-0	.2	23	.3	0.9	34.	4	1 20).9	9	184	81
SUVA/LAUCALA BAY	33	1 14	46 24	1	70	17	30.1	-0	.2	24	.8	1.3	31.	9 2	1 22	2.8	6	155	79
NACOCOLEVU	22	9 13	21 13	3	50	17	31.7	0	. 8	22	. 6	1.0	33.	5 2	9 20).5	9	169	92
ROTIMA	28	7 1 (01 22	2	77	6	31.2	0	. 5	2.4	. 9	0.2	33.	0	4 22	2.0	5	139	77
VTWA	20	6 1	50 10)	31	28	31 5	0	6	25	4	0.4	33	0 2	7 16	5 8	17	100	
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LABASA AIRFIELD	21	ے ۱ ۱،	/U 13		30. 77	20 E	20 0	0	.0	23 25	. 5	1 0	22.	0 1	7 20	J. J J. J	ΤŪ		
NABOUWALU	10	4 1. 7 .	23 31	L	/3	2 1	29.0 00 F	0	. 4	20	.0	1.0	J⊥.	0 1	1 23	5.3	2		
SAVUSAVU AIRFIELD	1 / L		56 Z:	5	25	1	29.5	-0	• /	24	• /	1.0	3∠. ⊃1	0 2	5 23	5.4	3		
MATEL AIRFIELD	50	0 I (26 27	-	97.	24	29.6	0	.0	23	.8	0.0	3⊥.	3 I	9 22	2.2	3		
*YASAWA-I-RARA	Fa	ulty	Y AWS	5				_	_										
VATUKOULA	24	5 10	03 13	3	103	23	32.4	0	.3	23	.1	1.7	34.	7 1	5 20).3	8		
MONASAVU	79	2 14	47 30)	104	4	24.6	-0	.3	19	.7	1.3	27.	4 1	6 18	3.0	6		
NAUSORI AIRPORT	30	4 1	14 26	5	50	17	29.6	-0	.1	23	.6	1.0	30.	8 2	5 20).5	26		
NAVUA/TOKOTOKO	43	5 13	16 27	7	94	21	29.1	-0	.4	23	.9	1.1	30.	5 2	5 22	2.0	5		
LAKEBA	21	0 11	17 14	1	63	4	29.8	0	.1	24	.7	1.0	31.	1 3	0 21	L.4	3		
*MATUKU	Fa	ulty	AWS	3															
VUNISEA	19	9 10)4 19)	61	5	28.6	-0	.8	23	.9	1.0	29.	9 2	4 22	2.1	19		
ONO-I-LAU	3	1 :	23 6	5	9	18	28.7	-0	.0	23	. 8	0.3	31.	2 2	8 20).9	24		
BA/RARAWAT MILL	42	4 18	38 18	3	134	23	32.7	0	. 4	22	. 4	0.7	35.	0 1	1 1 7	7.8	9		
LAUTOKA AES	18	5 0	96 15	7	34	6	31 1	0	1	23	7	0 4	34	5	1 21	2	9		
DENANG MILL	29	J. 71	12 20	'n	80	23	30 7	0	· ⊥ ⊿	23	6	0.1	32	0 2	0 21	1 6	4		
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NADI AIRPORT	54	45	2	22	0	0	27	4	21	1.3	28.	92	5.0	72	28.	. 6	4.4	47	17.9
SUVA/LAUCALA BAY	50	19	31	19	0	0	180	9	27	7.4	27.	52	5.2	83	30.	. 4		41	17.2
NACOCOLEVU	51	75	11	31	1	1	46	2	27	7.1	28.	32	5.6	80	30.	. 8		44	20
ROTUMA	52	36	20	21	0	0	137	7	28	3.1	28.	8 2	6.2	81	32.	.1	2.3	39	19
AWIV	56	75	1	65	97	20	0	0	28	3.5	28.	8 2	5.7	78	30.	. 7			
UDU POINT	50	35	1	16	0	0	129	4	27	7.1	28.	0 2	5.6	83	31.	.1			
LABASA AIRFIELD	52	75	4	41	7	3	0	0	27	7.6	28.	92	5.0	72	28.	. 7			
NABOUWALU	51	42	18	5	0	0	146	11	27	7.4	27.	8 2	5.3	81	30.	. 2	11.5		
SAVUSAVU AIRFIELD	49	35	31	35	0	0	18	5	27	7.1	27.	52	5.3	83	30.	. 5			
MATEI AIRFIELD	50	20	9	4	0	0	330	17	26	5.7	27.	52	5.3	83	30.	. 5			
*YASAWA-I-RARA	Fau	ltv	AWS																
VATUKOULA	54	75	1	42	59	13	104	2	25	78	29	52	4 2	64	26	1			
MONASAVII	38	6	31	6	0	10	672	21	22	2 2	21	7 2	0 7	91	23	6			
NAUGORT ATROOM	10	24	11	17	0	0	150	21	22	5 6	21.	5 2	5.0	01	20.	.0	6 5		
NAUSORI AIRPORI	40	24	16	т / о	0	0	704	12	20	5.0	27.	0 2	1 0	01	29. 20	. /	0.5		
NAVUA/ IUKUIUKU	40	20	17	0 20	0	0	204	12	20	7.0	27.	1 2	4.9 5 0	04	29.	. 9	10 0		
	50	40	1/	38	0	0	/8	4	Ζ.		28.	1 2	5.3	19	30.	. 0	10.8		
*MATUKU	Fau	lty	AWS																
VUNISEA	50	50	31	50	0	0	84	4	26	5.3	26.	8 2	4.7	83	29.	. 4	9.8		
ONO-I-LAU	50	75	1	75	124	27	0	0	26	5.2	26.	22	4.0	83	28.	. 2			
BA/RARAWAI MILL	54	60	12	7	0	0	209	3	27	7.6	29.	3 2	4.7	68	27.	. 5			
LAUTOKA AES	54	45	29	34	0	0	16	3	27	7.4	28.	72	4.8	72	28.	. 3			
PENANG MILL	54	55	22	26	0	0	139	5	27	7.1	27.	3 2	4.8	81	29.	. 4			
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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.

Three Month Rainfall Outlook Probabilities for January to March 2004

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 Division								
Dobuilevu	987	1227						
Vatukoula	907	1418						
Rarawai	937	1282						
Penang	928	1182						
Lautoka	810	1063						
Nadi	819	1068						
Lomawai	692	1020						
Nacocolevu	666	908						
Olosara	618	830						
Yasawa	697	933						
Central Divi	sion							
Navua	944	1247						
Suva	866	1109						
Nausori	893	1067						
Eastern Divi	sion							
Levuka	721	958						
Lakeba	631	851						
Matuku	586	773						
Ono-I-Lau	512	690						
Vunisea	623	834						
Northern Div	vision							
Labasa Mill	919	1257						
Seaqaqa	1041	1378						
Nabouwalu	841	1088						
Savusavu	675	869						
Udu Point	797	1017						
Matei	852	1109						
Rotuma	941	1185						

	Janua	ry 2004	Febru	ary 2004	Marc	h 2004	Jan to Mar 2004 combined		
Station Name	Average*	Probability [#]	Probability [#] Average [*] Probability [#] Average [*] Probability [#]		Probability [#]	Average*	Probability [#]		
Western Division									
Dobuilevu	393	57	334	38	429	41	1156	37	
Vatukoula	398	43	386	51	382	23	1166	43	
Rarawai	402	42	347	37	365	53	1114	51	
Penang	396	43	336	37	425	45	1157	40	
Lautoka	371	50	301	33	308	46	980	54	
Nadi	343	57	292	27	341	32	976	48	
Lomawai	337	31	250	21	294	52	881	34	
Olosara	283	43	215	49	258	36	756	52	
Nacocolevu	276	43	234	42	275	43	785	60	
Yasawa-I-Rara	235	56	240	40	276	27	751	49	
Central Division									
Navua - Tamanoa	395	42	283	39	413	59	1091	57	
Suva	371	48	265	54	374	45	1010	58	
Nausori	365	45	268	46	382	46	1015	64	
Eastern Division									
Lakeba	245	66	226	22	293	27	764	62	
Ono-I-Lau	179	48	194	54	253	20	626	46	
Northern Division									
Korowiri	395	39	365	48	378	28	1138	42	
Seaqaqa	419	48	389	35	392	15	1200	35	
Nabouwalu	312	63	276	68	335	48	923	53	
Savusavu	275	51	244	46	283	33	802	50	
Udu Point	313	62	249	35	320	30	882	47	
Rotuma	355	37	322	55	369	42	1046	69	

TABLE 3: Monthly Rainfall Outlook Probabilities for January to March 2004

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.

The probabilities in the three-month combined column are not an average of the three individual months. The model in this case has been re-run for three combined months. There is a higher degree of skill association with predicting rainfall for three combined months compared to three individual months.

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

Probability of expecting at least normal rainfall.