FIJI METEOROLOGICAL SERVICE Private Mail Bag (NAP0351) Nadi Airport, Fiji Ph: +679 6724888 Fax: +679 6724050 Email: climate@met.gov.fj Also online at: http://www.met.gov.fj	Fiji Clima June	ISO 9001:2015 certified Climate Services Volume 43 : Issue 06					
Issued: July 7, 2022 Next Issue: August 5, 2022	Issued: July 7, 2022 Since : August 1980*						
1. IN BRIEF							
Typical Dry Season weather pat and dry conditions were observed the month. Fiji's weather was a southeast wind flow and trade s parts and interior of the larger ish than usual condition were exper Central, Eastern and Northern Div of the Western Division. Lautok were the only two stations that rea <i>average</i> rainfall, respectively. I Yasawa-i-Rara, Koronivia and N less than half the <i>normal</i> rainfall. Overall, out of the 24 rainfall mon ed <i>well below average</i> rainfall, 1 <i>age</i> , and 1 station recorded <i>above</i> On temperatures, the highest da observed at Rarawai Mill (Ba) wi lowed by Labasa Airport and RK C on the 1 st and 30 th , respectively 2. WEATHER PATTERNS	across the country during dominated by an east to showers over the eastern ands. Consequently, drier rienced especially in the risions, together with parts ta Mill and Nadi Airport ceived <i>average</i> and <i>above</i> Eastern Division, Viwa, lausori Airport registered hitoring stations, 9 record- 3 <i>below average</i> , 1 <i>aver-</i> <i>average</i> rainfall. ay-time temperature was ith 32.8°C on the 4 th , fol- S Lodoni both with 32.6° r, Lautoka Mill with 32.5°	The coolest night time temperature of 11.2°C was recorded at Nadarivatu on the 7 th , followed by Monasavu with 14.3° C on the 22 nd , Rarawai Mill (Ba) with 14.6°C on the 8 th , Labasa Mill with 14.9°C, Lomaivuna with 15.7°C and Vaturekuka (Labasa) with 15.7°C, all on the 8 th , and Siga- toka with 16.2°C on the 9 th . Southeasterly winds were dominant at Nadi Airport while easterly winds were the most observed winds at Nausori Airport during June, with light to moderate wind strength recorded at both stations (Figure 8). Warmer than normal sea surface temperature anomalies were observed across most of the Fiji Group (Figure 9).					
June weather was dominated by							

East to southeasterly wind flow further dominated the group from the 22^{nd} onwards to the end of the month producing isolated brief showers over the eastern parts and interior of the main island and mainly fine weather elsewhere.

Rotuma's weather was also affected by a series of troughs of low pressure systems, moist easterlies for the month of June.

On the 15th, a trough of low pressure developed over the eastern parts with some showers. Eventually, Lomaivuna from eastern interior of Viti Levu recorded 76mm of rainfall in 24 hours on the 17th. As the trough gradually weakened over the eastern division, an active trough gradually approached the group from the west on the 19th. Though it was a fast moving trough, occasional rain, thunderstorms

tu reported 11.2°C on the 7th and most stations below or in the lower 20's (°C) during this period. Over the month few

weak trough of low pressure also moved over the group

From the 1st till the 14th, an east to southeast wind flow pre-

vailed over the group due to the subtropical ridge (high pressure) developing from the southwest while drifting

eastwards. Also on the 14th to the 15th most of the coastal

communities along the Coral Coast to Pacific Harbour, Lo-

maiviti and Lau group experienced coastal inundation with the coupling effect of moderate to heavy southerly swells from the south and the occurrence of the King Tide on the

with minimal to minor impacts.

14th.

*Previously known as the Fiji Islands Weather Summary and Monthly Weather Summary

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3. RAINFALL

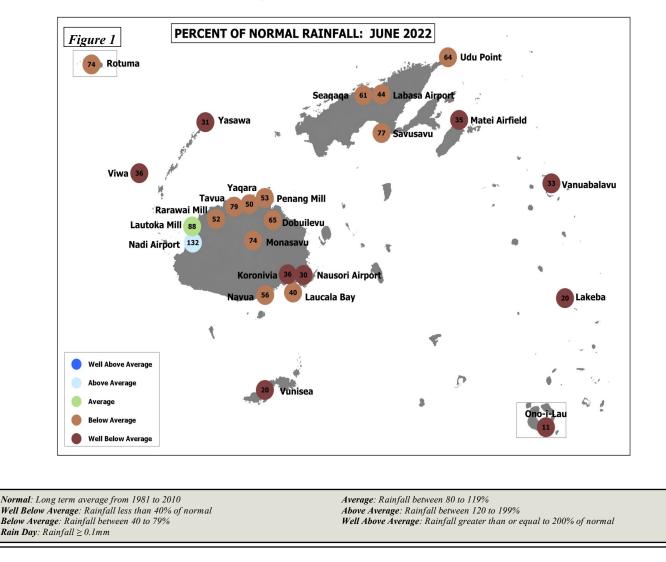
Typical Dry Season rainfall was experienced at various parts of the country during the month. Nadi and Lautoka, in the Western Division, were the only exceptions as they experienced *average* and *above average* rainfall, respectively. The rainfall monitoring stations across the Eastern Division, Viwa, Yasawa-i-Rara, Koronivia and Nausori Airport registered less than half their *normal* rainfall.

Overall, out of the 24 rainfall monitoring stations that recorded in, in time for the compilation of bulletin, 9 recorded *well below average* rainfall, 13 *below average*, 1 *average*, and 1 station recorded *above average* rainfall (Table 2, Figures 1-5).

The highest monthly rainfall of 196.4mm was observed at Monasavu, followed by RKS Lodoni with 193.0mm, Rotuma with 190.8mm, Lomaivuna with 171.0mm, Navua with 113.5mm, Savusavu Airfield with 102.2mm, Nadarivatu with 102.0mm, Levuka with 98.5mm, Korolevu with 93.5mm and Udu Point with 88.2mm. On the other hand, Ono-i-Lau recorded the month's lowest total monthly rainfall of 10.0mm, followed by Yasawa-i-Rara with 21.5mm, Lakeba with 23.6mm, Viwa with 26.3mm, Vunisea with 27.0mm, Yaqara with 31.0mm, Labasa Airport with 33.5mm, Wainikoro with 35.0mm and Ellington (Ra) with 36.0mm (Table 2).

Rotuma recorded its highest number of rain days (rainfall ≥ 0.1 mm) with 23 days, followed by Koronivia, Nausori and Udu Point all with 17 days, Nadarivatu, Levuka and Matei Airfield all with 15 days, and RKS Lodoni and Savusavu Airfield both with 14 days. Consequently, Yasawa -i-Rara and Rarawai Mill (Ba) recorded the least number of rain days with 2 days, followed by Nadi, Lautoka and Tavua all with 3 days, Yaqara, Momi and Vunisea all with 4 days, Viwa with 6 days, Penang Mill and Korolevu both with 7 days and Sigatoka, Ellington (Ra), Seaqaqa and Labasa Airport all with 8 days.

There were no new rainfall record established during the month.



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4. **AIR TEMPERATURES**

Maximum Day-time Air Temperatures A.

Above normal day-time air temperatures were observed at Generally near normal night-time temperatures were recordmost parts of Fiji during the month. Out of the 19 climate stations that reported in time for the analysis of data, 17 recorded anomalies at $\geq +0.5^{\circ}$ C and 2 recorded within $\pm 0.5^{\circ}$ С.

The warmest days on average were recorded at Ellington (Ra) with 30.9°C, followed by Rarawai Mill (Ba) with 30.8°C, Rotuma and Labasa Airport with 30.6°C, RKS Lodoni with 30.5°C, Lautoka Mill with 30.4°C, and Yaqara with 30.2°C. Consequently, Monasavu recorded the coolest days on average with 23.4°C, followed by Nadarivatu with 24.3°C, Lomaivuna with 27.8°C, Ono-i-Lau with 27.9°C, Yasawa-i-Rara and Vunisea both with 28.3°C, and Savusavu airfield and Laucala Bay (Suva) both with 28.5°C.

The highest day-time temperature was observed at Rarawai Mill (Ba) with 32.8°C on the 4th, followed by Labasa Airport and RKS Lodoni both with 32.6°C on the 1st and 30th. respectively, Lautoka Mill with 32.5°C on the 30th, and Yaqara with 32.5°C on the 14th. In contrast, the coolest daytime temperature of 19.7°C was at Monasavu on the 23rd. Nadarivatu with 21.1°C on the 20th, Sigatoka and Nausori Airport both with 24.0°C on the 20th and 23rd respectively, Lomaivuna with 24.6° C on the 16th, Ono-i-Lau with 25.8 ° C on the 24^{th} .

Vunisea and Lakeba recorded their highest monthly average maximum temperature of 28.3°C and 28.9°C since observations began in 1947 and 1955, respectively (Table 1).

B. **Minimum Night-time Air Temperatures**

ed over most parts of the country during the month. Of the 19 stations, 6 recorded anomalies \geq +0.5°C, 12 within \pm 0.5° C, and Viwa was the lone station with anomaly $\leq -0.5^{\circ}$ C.

The coolest days on average was at Monasavu with 17.1°C, followed by Nadarivatu and Sigatoka both with 18.1°C, Rarawai Mill (Ba) with 18.3°C, Labasa Airport with 19.3° C, Nadi Airport and Lomaivuna both with 19.8°C, Vaturekuka (Labasa) with 20.2°C, and Lautoka Mill and Koronivia both with 20.5°C. On the other hand, the warmest night-time temperatures on average were observed at Levuka with 24.0°C, followed by Vanuabalavu with 23.7°C, Yaqara with 23.5°C, Saqani with 23.4°C, and RKS Lodoni with 23.2°C.

The coolest night-time temperatures were recorded during the second and the last week of the month. The lowest night time temperature of 11.2°C was recorded at Nadarivatu on the 7th, followed by Monasavu with 14.3°C on the 22nd, Rarawai Mill (Ba) with 14.6°C on the 8th, Labasa Mill with 14.9°C, Lomaivuna with 15.7°C and Vaturekuka (Labasa) with 15.7°C, all on the 8th, and Sigatoka with 16.2°C on the 9th. On the other hand, the warmest night-time temperature of 26.1°C was recorded at Ono-i-Lau on the 2nd, followed by RKS Lodoni with 25.4°C on the 19th, Saqani with 25.1° C on the 18th, Laucala Bay (Suva), Viwa and Yaqara with 25.4°C, all on the 5th, Wainikoro with 24.7°C on the 29th and Penang Mill with 24.6°C on the 18th.

There were no new night time temperature records established during the month.

TABLE 1. CLIMATE RECORDS ESTABLISHED IN JUNE 2022									
<u>Element</u>	<u>Station</u>	Observed (record)	<u>On</u>	<u>Rank</u>	<u>Previous</u> (record)	<u>Year</u>	<u>Records</u> <u>Began</u>		
Monthly Average Maximum Tem- perature	Lakeba	28.9°C	-	New High	28.7°C	2011 2020	1955		
Monthly Average Maximum Tem- perature	Vunisea	28.3°C	-	New High	28.2°C	2010	1947		

Note: All comparisons in this summary are with respect to "Climatic Normals". This is defined to be the average climate condition over a 30-year period. Fiji uses 1981-2010 period as its "climatic normal" period.

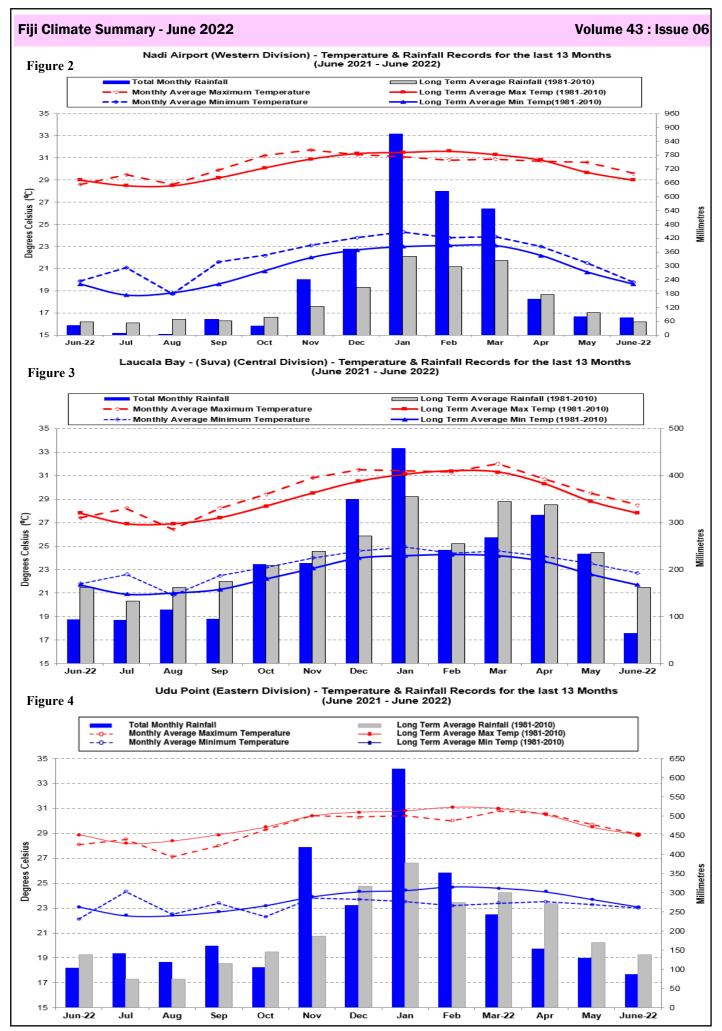
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TABLE 2. DAILY CLIMATE REPORTING SITES: SUMMARY FOR JUNE 2022

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FOR JUNE 2022	
MPERATURES	SUNSHINE

		RATNEALL	MAX.					-			SUNSH		
	TOTAL	* DAYS	FALL	MAA.		π	MAX.	KTRE	MIN.		TOTA	*	
	MM	% +	MM ON	С	сс	C		ON		ON	HRS	%	
NADI AIRPORT LAUCALA BAY NACOCOLEVU RESEARCH	75.0 65.4			28.5	0.6 19.8 0.7 22.7 RVATION		31.2 30.0				219 209		
ROTUMA ISLAND VIWA ISLAND YASAWA-I-RARA (AWS) UDU POINT WEATHER NABOUWALU	190.8 26.3 21.5 88.2	36 6	24 13 12 19 18 19 22 14	30.6 29.9 28.3 28.9	0.8 U/S 1.2 22.3 -0.5 22.8 0.0 23.0 RVATION	-0.1	30.7	4 30	20.5 19.1	9	164	92	
LABASA AIRFIELD SAVUSAVU AIRFIELD KORONIVIA RESEARCH NAUSORI AIRPORT NAVUA (AWS) MONASAVU HYDRO DAM FSC LAUTOKA MILL FSC PENANG MILL MATEI AIRFIELD VANUABALAVU (AWS) LAKEBA VUNISEA	33.5 102.2 58.2 48.9 113.5 196.4 57.6 39.0 49.6 51.3 47.5 23.6 27.0	56 12 74 11 88 3 52 2 53 7 35 15 33 12	12 21 26 20 13 20 14 20 55 16 64 19 46 20 29 20 28 19 17 18 11 20 13 19 17 19	30.6 28.5 U/S 28.7 29.3 23.4 30.4 30.8 29.0 29.3 28.9 28.9 28.3	$\begin{array}{c} 0.9 \ 19.3 \\ 0.5 \ 21.5 \\ 20.5 \\ 1.4 \ 20.7 \\ 1.7 \ 22.3 \\ 1.4 \ 17.1 \\ 1.3 \ 20.5 \\ 0.8 \ 18.3 \\ 1.0 \ 22.1 \\ 1.3 \ 22.4 \\ 1.2 \ 23.7 \\ 1.7 \ 22.2 \\ 1.7 \ 21.0 \end{array}$	-0.3 -0.2 0.1 2.7 0.6 -0.3 0.1 0.8 -0.1 0.8 0.2	U/S 30.3 31.6 25.7 32.5 32.8 30.2 30.2	20 14 11 30 4 21 10 11 20	16.8 16.9 17.2 14.3 17.5 14.6 16.9 20.6 23.4 19.5	8 8 10 22 8 8 8 8 8 5			
MATUKU ONO-I-LAU YAQARA AWS LEVUKA AWS	10.0 31.0 98.5		4 19 18 20 26 19	27.9 30.2 28.9	RVATION 2.0 22.8 23.5 24.0		31.0 32.2 30.7	14	18.2	8			
KEIYASI AWS LOMAIVUNA AWS NADARIVATU AWS RKS LODONI AWS SIGATOKA AWS ELLINGTON (RA) AWS VATUREKUKA AWS KOROLEVU AWS WAINIKORO AWS SAQANI AWS SEAQAQA TB3 DOBUILEVU TB3 NASINU TB3 TAVUA TB3	$171.0 \\ 102.0 \\ 193.0 \\ 82.0 \\ 36.0 \\ 60.0 \\ 93.5 \\ 35.0 \\ 69.0 \\ 47.5 \\ 69.5 \\ 38.5 \\ 50.5 \\ 100000000000000000000000000000000000$	$ \begin{array}{r} 15\\ 14\\ 4\\ 8\\ 9\\ 7\\ 9\\ 13\\ 61\\ 8\\ 65\\ 9\\ 13\\ \end{array} $	MISSIN 76 16 38 19 76 16 29 20 34 19 11 19 31 19 54 16 12 20 12 21 24 20 27 19 11 16 28 19	G OBSE 27.8 24.3 30.5 29.6 28.8 30.9 28.8 29.4 29.5 30.1	23.0		26.3	1 30 14 15 30 13 29 21	17.9 17.8 16.2 U/S 15.9 17.6 16.3	7 10 8 9 8 9			
TEMPERATURE(C)HUMIDITY WIND DRY WET RH% VP MEAN (AVERAGE AT 9AM) KT													
NADI AIRPORT LAUCALA BAY NACOCOLEVU RESEARCH ROTUMA ISLAND YASAWA-I-RARA(AWS) YASAWA-I-RARA(AWS) UDU POINT WEATHER NABOUWALU LABASA AIRFIELD SAVUSAVU AIRFIELD KORONIVIA RESEARCH NAUSAVU AIRFIELD KORONIVIA RESEARCH NAUSAVU HYDRO DAM FSC LAUTOKA MILL FSC RARAWAI MILL FSC RARAWAI MILL FSC PENANG MILL MATEI AIRFIELD VANUABALAVU (AWS) LAKEBA VUNISEA MATUKU	24.7 2 25.6 2 J/S 22 25.6 2 25.6 2 25.9 2 24.9 20 25.0 20 0/S 22 24.9 20 25.8 2 24.7 2 25.6 2 24.7 20 25.3 2 25.5 2 24.7 20 25.4 2 25.6 2 25.6 2 24.7 20 MIS	5.9 23.7 5.4 23.3	77 23. 79 25. ERVATION 80 29. 77 27. 80 26. ERVATION 80 25. 81 25. 83 25. 83 24. 92 17. 70 27. 83 23. 80 24. 77 27. 78 26. 79 25. 5ERVATIO	1 5.3 7 4.5 1 5 8 4 7 0 3 7.1 6 3 1 8 1 7 1 N									
MEAN TEMPERATURE IS (MAX+MIN)/2; WIND IS MEAN SPEED AT 06,12,18,24 HOURS. \$:SOLAR RADIATION CALCULATED FROM SUNSHINE DURATION. # :DEPARTURE FROM LONG-TERM AVERAGES (1981-2010). + :NUMBER OF DAYS WITH 0.1 MM OR MORE RAIN. * :PERCENT OF LONG-TERM AVERAGES. BLUE FONT: MISSING RECORDS OF LESS THAN OR EQUAL(≤) TO 5 DAYS. U/S: UNSERVICEABLE													

4



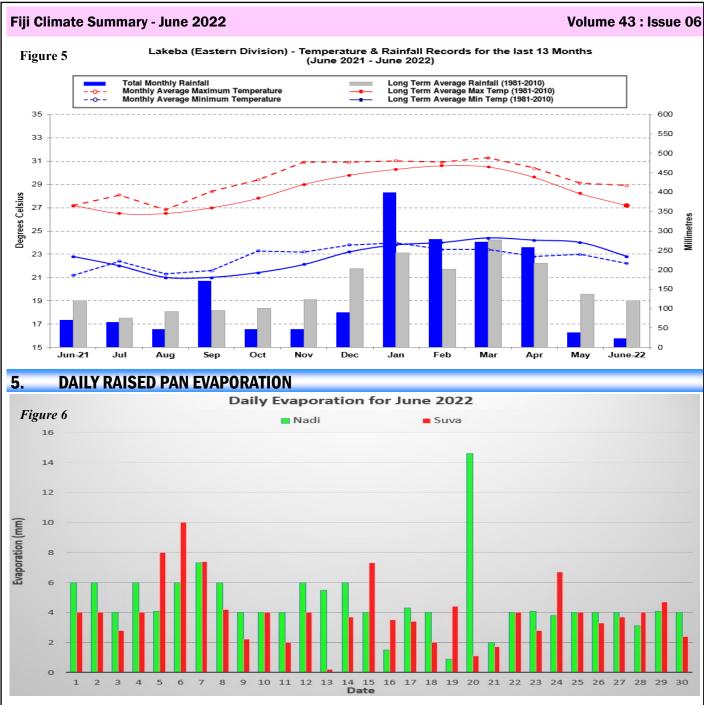
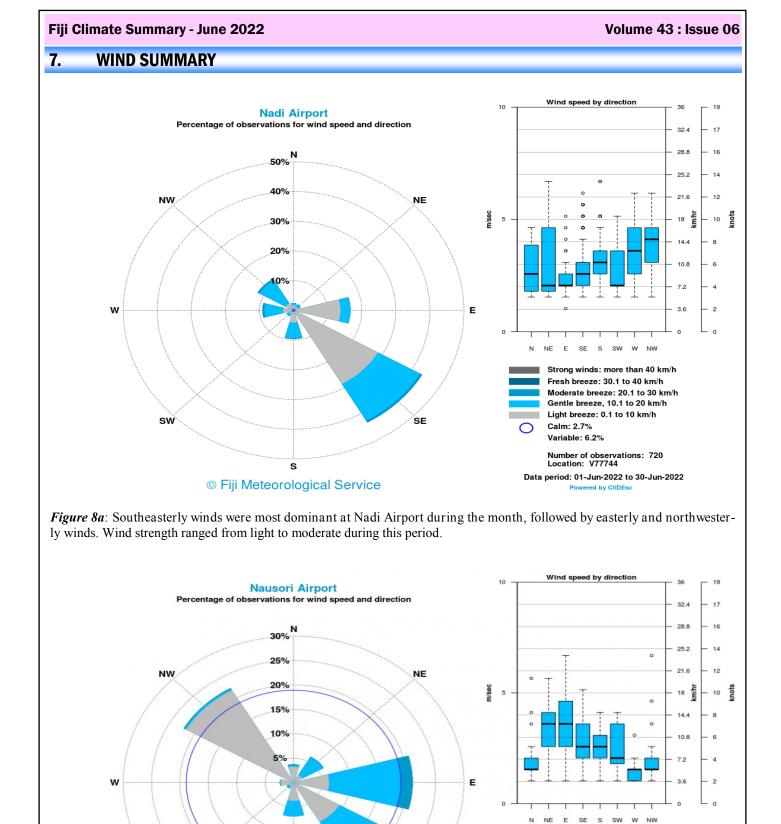


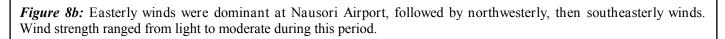
Figure 6: The total monthly evaporation at Nadi Airport and Laucala Bay (Suva) were 141.3mm and 119.5mm, respectively. Nadi's highest daily evaporation was 14.6mm on the 20th, with Suva's highest daily evaporation of 10.0mm on the 6th.

Note Nacocolevu's evaporation could not be analysed due to missing observation data.

6. SOLAR RADIATION

The Nadi solar radiation instrument became unserviceable during the month of June 2022.





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SE

SW

Strong winds: more than 40 km/h Fresh breeze: 30.1 to 40 km/h Moderate breeze: 20.1 to 30 km/h Gentle breeze; 10.1 to 20 km/h Light breeze: 0.1 to 10 km/h

Number of observations: 658 Location: V88054

Data period: 01-Jun-2022 to 30-Jun-2022

Calm: 18.9% Variable: 9.3%

