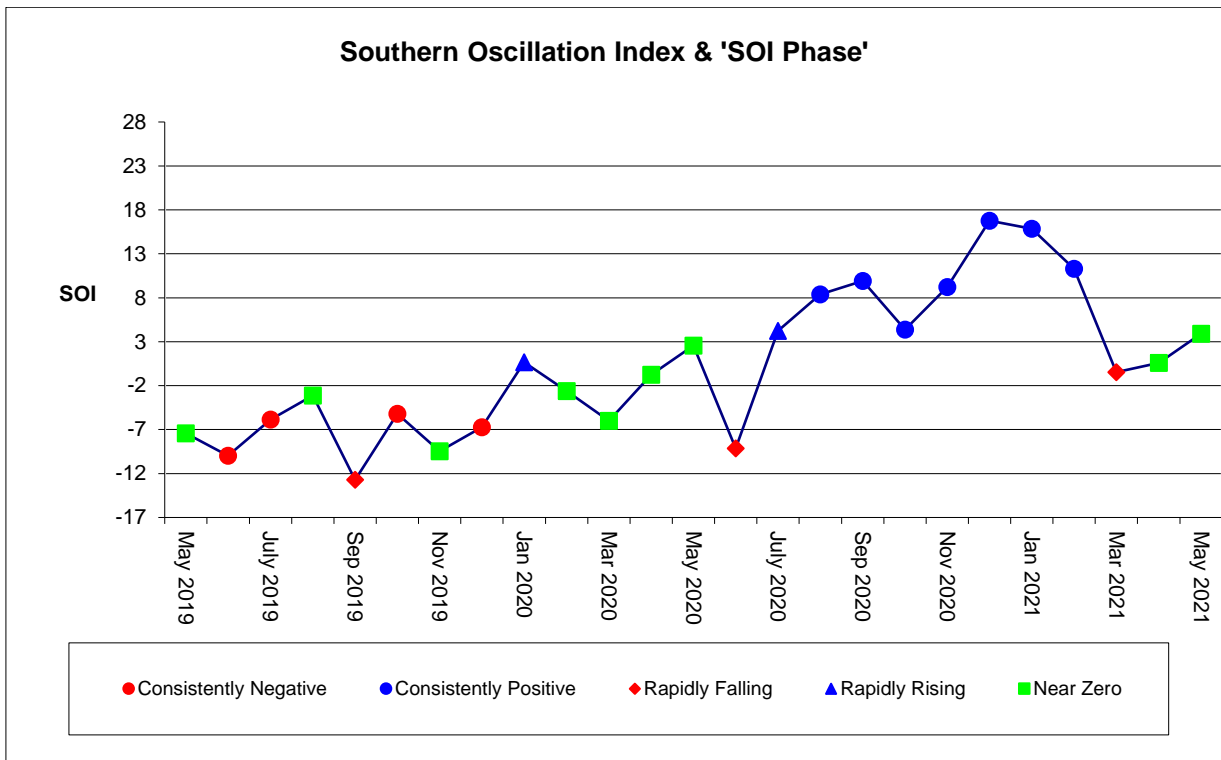


Climate Outlook June - July 2021

SOI TRACKER:

The monthly average SOI for May was positive 3.90 (+3.90) compared to positive 0.58 (+0.58) in April. Therefore the SOI phase for May came out as "Consistently Near Zero".

	SOI VALUE	SOI PHASE
End of June 2020	-9.13	"Rapidly Falling"
End of July 2020	4.25	"Rapidly Rising"
End of August 2020	8.39	"Consistently Positive"
End of September 2020	9.93	"Consistently Positive"
End of October 2020	4.37	"Consistently Positive"
End of November 2020	9.24	"Consistently Positive"
End of December 2020	16.77	"Consistently Positive"
End of January 2021	15.85	"Consistently Positive"
End of February 2021	11.31	"Consistently Positive"
End of March 2021	-0.46	"Rapidly Falling"
End of April 2021	0.58	"Consistently Near Zero"
End of May 2021	3.9	"Consistently Near Zero"



RAINFALL OUTLOOK

- Median rainfall for June - July at Macknade is equal to 84.0 mm.
- Based on the new SOI phase, we have calculated the chance of exceeding median rainfall for June-July for the Herbert region to be 58%. (A 50% chance is what would be considered the 'normal chance' of experiencing above median rainfall).
- The Upper Quartile (top quartile of rainfall) for June-July at Macknade is equal to 136.9 mm.
- Based on past rainfall events over a period of more than 110 years, the chance of experiencing excessively high rainfall (i.e. rainfall greater than the upper quartile) is equal to 30%. (25% chance is what would be considered the 'normal chance' of experiencing excessively high rainfall.)

Climate Outlook June - July 2021

JUNE - JULY RAIN OUTLOOK FOR INGHAM IN DETAIL:

Since 1892 when rainfall records commenced at Macknade, there have been 33 occasions when the SOI phase at the end of May was “Consistently Near Zero”. These years were:

1894 1895 1901 1907 1908 1910 1913 1919 1920 1922 1926 1932
 1933 1937 1939 1944 1948 1949 1954 1959 1966 1967 1976 1982
 1984 1986 1996 2003 2007 2012 2018 2019 2020

During those 33 years, total rainfall for June-July exceeded the median 19 times. Therefore the chance of exceeding median rainfall for June-July is 19/33= 58%.

A high amount of rainfall (i.e. rain greater than 136.9 mm) resulted 10 times. So the chance of high rainfall is equal to 10/33 = 30%.

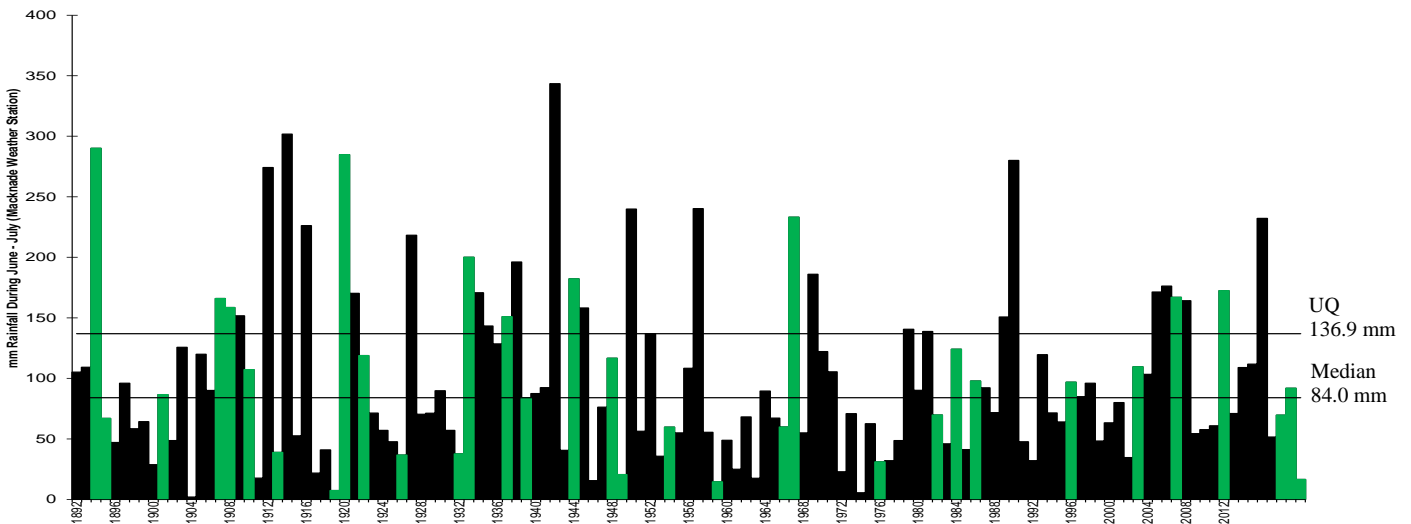
There have been 33 years when the SOI phase at the end of May was in a Consistently Near Zero phase (coloured Bars)

In 19 of those years the rainfall during June-July exceeded the median.

The chance that the Rainfall during June-July will exceed the median = 19/33 = 58%

In 10 of those years the Rainfall during June-July exceeded the Upper Quartile.

The chance that the Rainfall during June-July will exceed the Upper Quartile = 10/33 = 30%



Comparison to Last Year

	June – July 2021	June - July 2020
SOI Phase	Consistently Near Zero	Consistently Near Zero
Chance of above median rainfall	58%	56%
Chance of excessively high rainfall	30%	28%

For information on sea surface temperatures and general climate information, please see <http://www.longpaddock.qld.gov.au> and <http://www.bom.gov.au/climate/ahead>.

Disclaimer:

The seasonal climate forecasting information provided in this document is presented for the purposes of raising awareness of the potential value of seasonal climate forecasting information and should be considered as a guideline only. The user assumes all risk for any liabilities, expenses, losses, damages and costs resulting directly or indirectly from the use of the climatic forecast information.