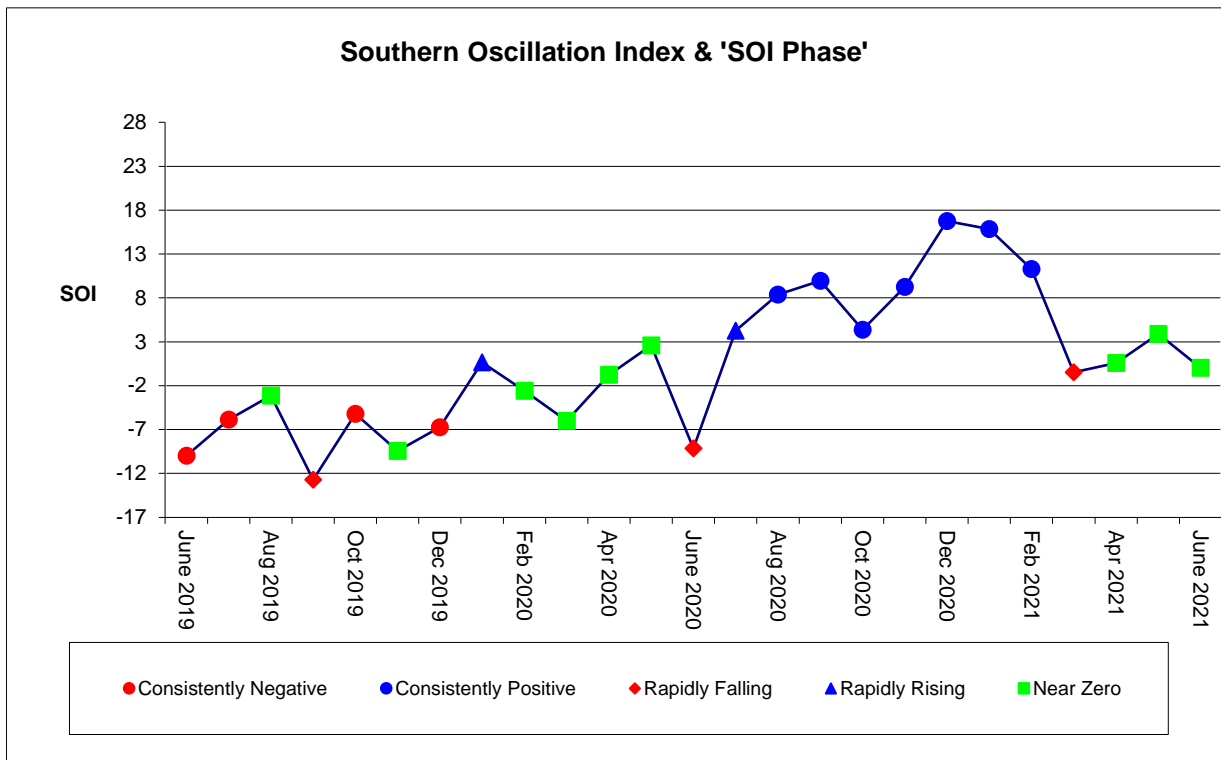


Climate Outlook July - August 2021

SOI TRACKER:

The monthly average SOI for June was positive 0.04 (+0.04) compared to positive 3.90 (+3.90) in May. Therefore the SOI phase for June came out as "Consistently Near Zero".

	SOI VALUE	SOI PHASE
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"
End of June 2021	0.04	"Consistently Near Zero"



RAINFALL OUTLOOK

- Median rainfall for July - August at Macknade is equal to 67.7 mm.
- Based on the new SOI phase, we have calculated the chance of exceeding median rainfall for July-August for the Herbert region to be 44%. (A 50% chance is what would be considered the 'normal chance' of experiencing above median rainfall).
- The Upper Quartile (top quartile of rainfall) for July-August at Macknade is equal to 109.1 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 12%. (25% chance is what would be considered the 'normal chance' of experiencing excessively high rainfall.)

Climate Outlook July - August 2021

JULY – AUGUST RAIN OUTLOOK FOR INGHAM IN DETAIL:

Since 1892 when rainfall records commenced at Macknade, there have been 34 occasions when the SOI phase at the end of June was “Consistently Near Zero”. These years were:

1894 1895 1898 1899 1907 1908 1913 1915 1919 1923 1925 1926
 1927 1928 1932 1935 1936 1937 1939 1944 1954 1960 1961 1969
 1976 1979 1980 1991 1995 1999 2009 2011 2014 2016

During those 34 years, total rainfall for July-August exceeded the median 15 times. Therefore the chance of exceeding median rainfall for July-August is $15/34 = 44\%$.

A high amount of rainfall (i.e. rain greater than 109.1 mm) resulted 4 times. So the chance of high rainfall is equal to $4/34 = 12\%$.

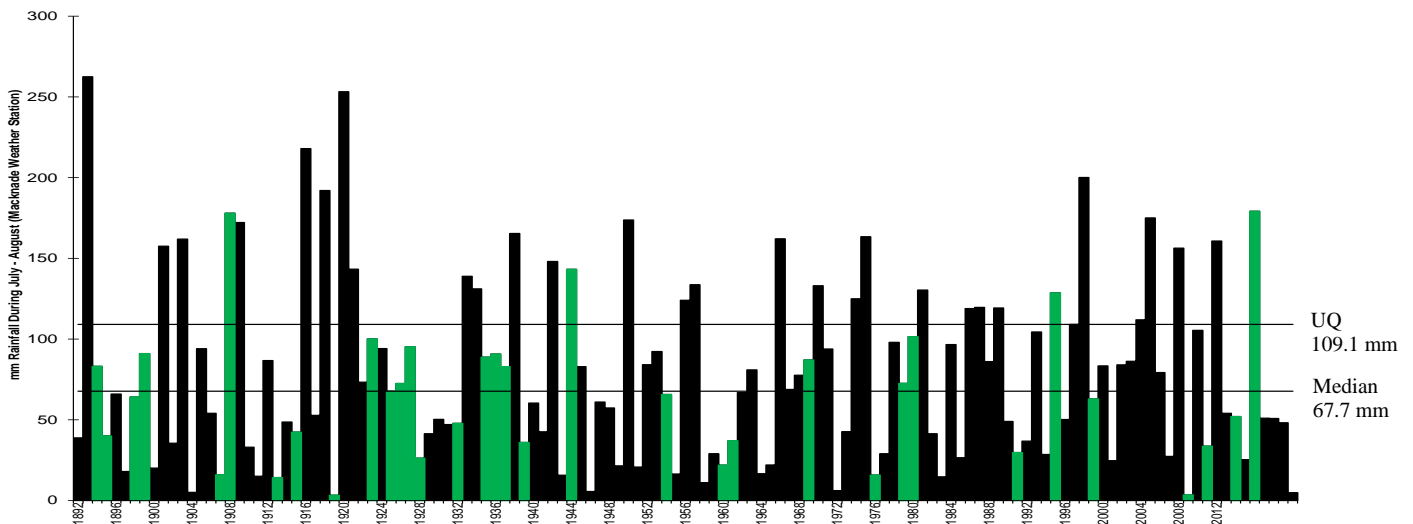
There have been 34 years when the SOI phase at the end of June was in a Consistently Near Zero phase (coloured Bars)

In 15 of those years the rainfall during July- August exceeded the median.

The chance that the Rainfall during July-August will exceed the median = $15/34 = 44\%$

In 4 of those years the Rainfall during July-August exceeded the Upper Quartile.

The chance that the Rainfall during July-August will exceed the Upper Quartile = $4/34 = 12\%$



Comparison to Last Year

	July - August 2021	July - August 2020
SOI Phase	Consistently Near Zero	Rapidly Falling
Chance of above median rainfall	44%	37%
Chance of excessively high rainfall	12%	19%

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.