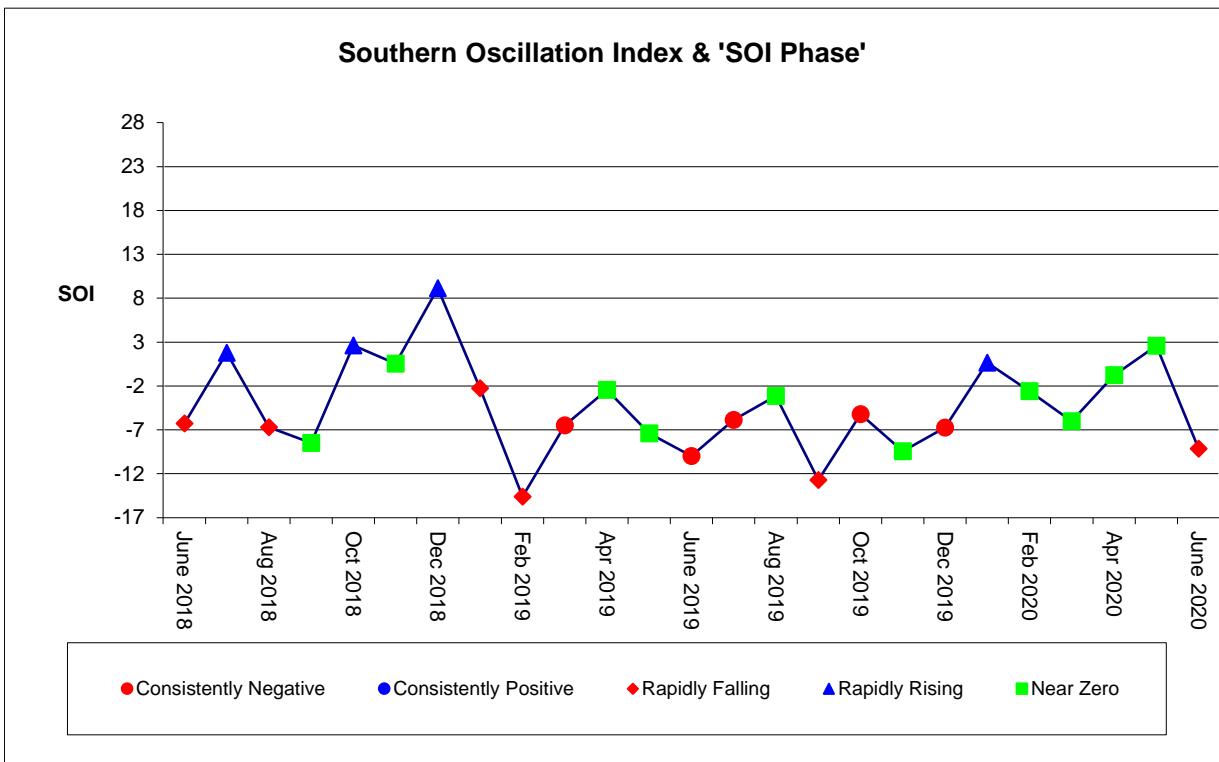


Climate Outlook July - August 2020

SOI TRACKER:

The monthly average SOI for June was negative 9.13 (-9.13) compared to positive 2.57 (+2.57) in May. Therefore the SOI phase for June came out as "Rapidly Falling".

	SOI VALUE	SOI PHASE
End of July 2019	-5.86	"Consistently Negative"
End of August 2019	-3.14	"Consistently Near Zero"
End of September 2019	-12.72	"Rapidly Falling"
End of October 2019	-5.19	"Consistently Negative"
End of November 2019	-9.45	"Consistently Near Zero"
End of December 2019	-6.72	"Consistently Negative"
End of January 2020	0.65	"Rapidly Rising"
End of February 2020	-2.6	"Consistently Near Zero"
End of March 2020	-6.02	"Consistently Near Zero"
End of April 2020	-0.75	"Consistently Near Zero"
End of May 2020	2.57	"Consistently Near Zero"
End of June 2020	-9.13	"Rapidly Falling"



RAINFALL OUTLOOK

- Median rainfall for July- August at Macknade is equal to 68.3 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 38%. (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 109.8 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 19%. (25% chance is what would be considered the 'normal chance' of experiencing excessively high rainfall.)

Climate Outlook July - August 2020

JULY- AUGUST RAIN OUTLOOK FOR INGHAM IN DETAIL:

Since 1892 when rainfall records commenced at Macknade, there have been 26 occasions when the SOI phase at the end of June was “Rapidly Falling”. These years were:

1903 1904 1906 1918 1930 1933 1941 1943 1948 1949 1959 1963
 1965 1982 1983 1984 1985 1988 1990 1992 2000 2003 2004 2012
 2017 2018

During those 26 years, total rainfall for July-August exceeded the median 10 times. Therefore the chance of exceeding median rainfall for July-August is $10/26 = 38\%$.

A high amount of rainfall (i.e. rain greater than 109.8 mm) resulted 5 times. So the chance of high rainfall is equal to $5/26 = 19\%$.

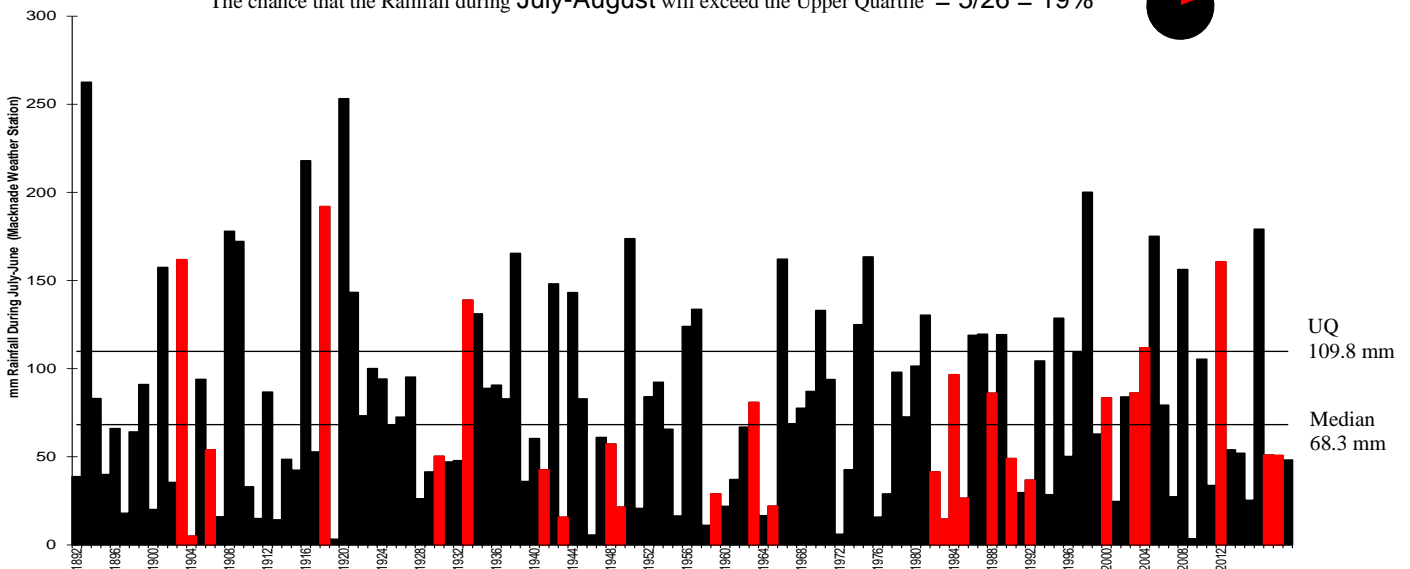
There have been 26 years when the SOI phase at the end of June was in a Rapidly Falling phase (coloured Bars)

In 10 of those years the rainfall during July-August exceeded the median.

The chance that the Rainfall during July-August will exceed the median = $10/26 = 38\%$

In 5 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 = $5/26 = 19\%$



Comparison to Last Year

	July-August 2020	July-August 2019
SOI Phase	Rapidly Falling	Consistently Negative
Chance of above median rainfall	38%	41%
Chance of excessively high rainfall	19%	6%

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.