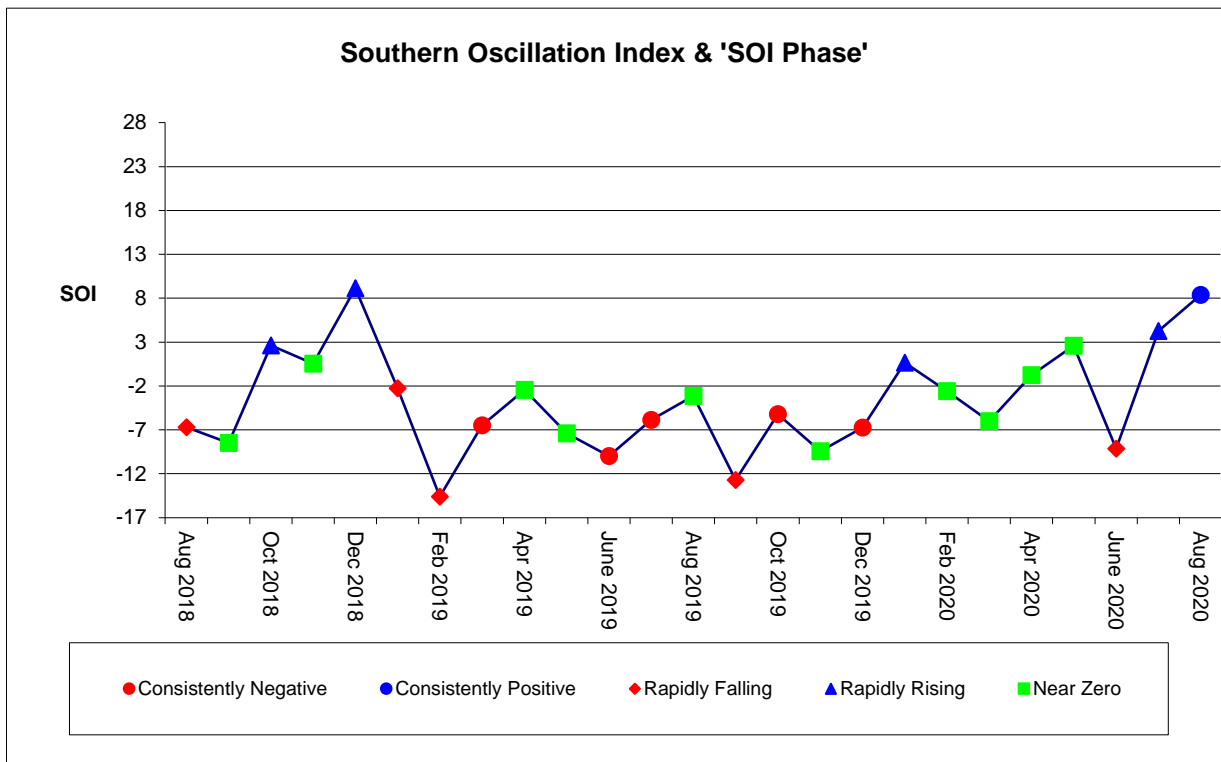


Climate Outlook September-October 2020

SOI TRACKER:

The monthly average SOI for August was positive 8.39 (+8.39) compared to positive 4.25 (+4.25) in July. Therefore the SOI phase for August came out as "Consistently Positive".

	SOI VALUE	SOI PHASE
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"
End of July 2020	4.25	"Rapidly Rising"
End of August 2020	8.39	"Consistently Positive"



RAINFALL OUTLOOK

- Median rainfall for September-October at Macknade is equal to 58.3 mm.
- Based on the new SOI phase, we have calculated the chance of exceeding median rainfall for September-October for the Herbert region to be 59%. (A 50% chance is what would be considered the 'normal chance' of experiencing above median rainfall).
- The Upper Quartile (top quartile of rainfall) for September-October at Macknade is equal to 105.3 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 44%. (25% chance is what would be considered the 'normal chance' of experiencing excessively high rainfall.)

Climate Outlook September - October 2020

SEPTEMBER-OCTOBER RAIN OUTLOOK FOR INGHAM IN DETAIL:

Since 1892 when rainfall records commenced at Macknade, there have been 27 occasions when the SOI phase at the end of August was “Consistently Positive”. These years were:

1892 1893 1900 1909 1910 1915 1916 1917 1920 1924 1938 1947
 1950 1955 1956 1958 1960 1973 1974 1975 1981 1988 1996 1998
 2010 2011 2017

During those 27 years, total rainfall for September-October exceeded the median 16 times. Therefore the chance of exceeding median rainfall for September-October is $16/27 = 59\%$.

A high amount of rainfall (i.e. rain greater than 105.3 mm) resulted 12 times. So the chance of high rainfall is equal to $12/27 = 44\%$.

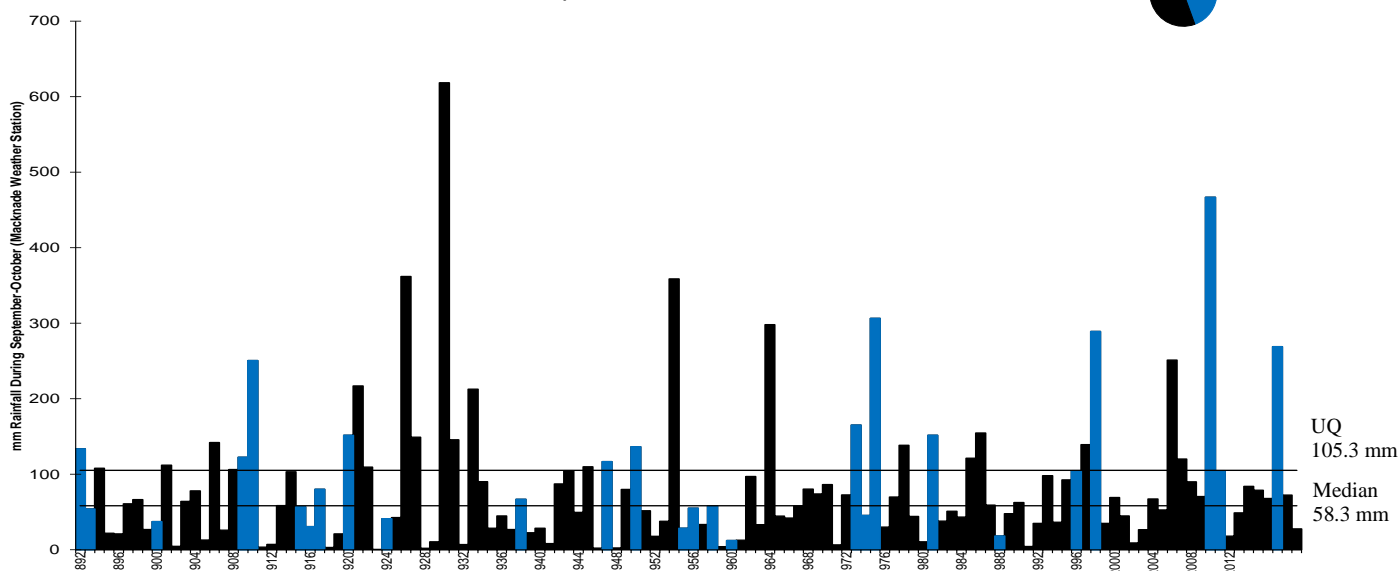
There have been 27 years when the SOI phase at the end of Aug was in a Consistently Positive phase (coloured Bars)

In 16 of those years the rainfall during Sept-Oct exceeded the median.

The chance that the Rainfall during Sept-Oct will exceed the median = $16/27 = 59\%$

In 12 of those years the Rainfall during Sept-Oct exceeded the Upper Quartile.

The chance that the Rainfall during Sept-Oct will exceed the Upper Quartile = $12/27 = 44\%$



Comparison to Last Year

	September-October 2020	September-October 2019
SOI Phase	Consistently Positive	Consistently Near Zero
Chance of above median rainfall	59%	48%
Chance of excessively high rainfall	44%	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.