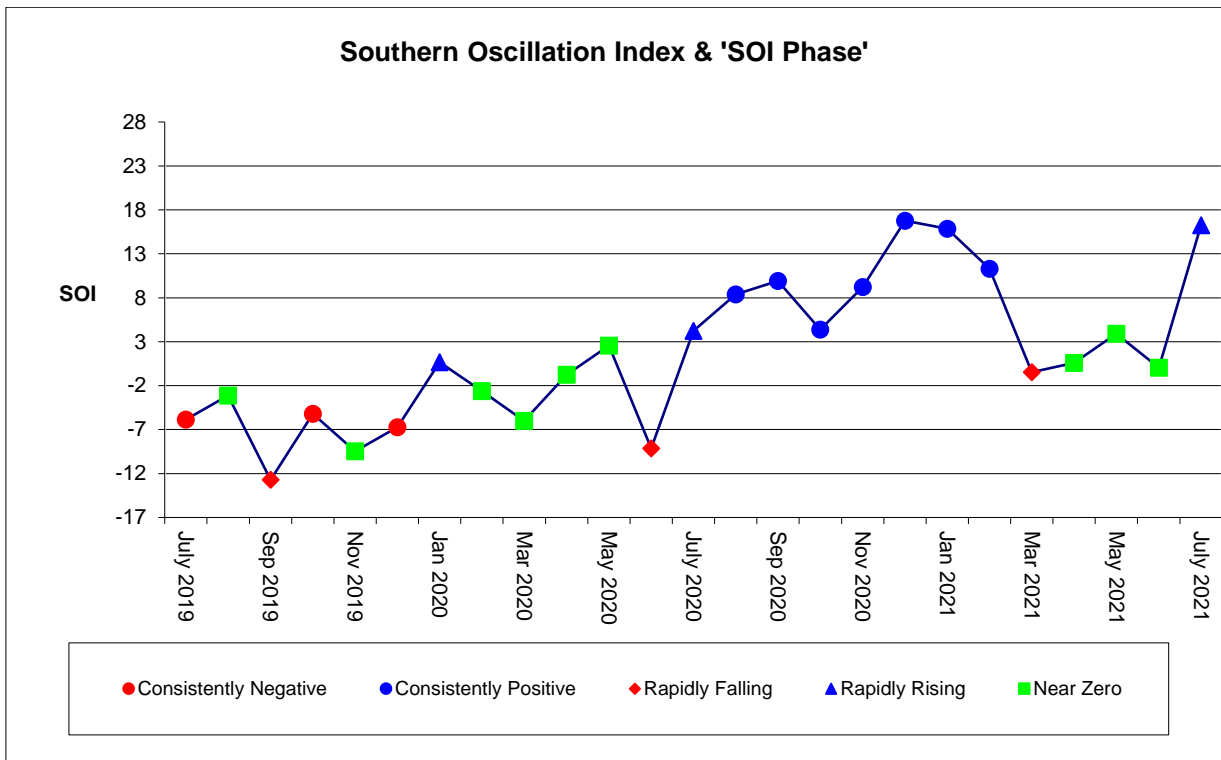


## Climate Outlook August - September 2021

### SOI TRACKER:

The monthly average SOI for July was positive 16.26 (+16.26) compared to positive 0.04 (+0.04) in June. Therefore the SOI phase for July came out as "Rapidly Rising".

	SOI VALUE	SOI PHASE
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"
End of July 2021	16.26	"Rapidly Rising"



### RAINFALL OUTLOOK

- Median rainfall for August - September at Macknade is equal to 55.5 mm.
- Based on the new SOI phase, we have calculated the chance of exceeding median rainfall for August-September for the Herbert region to be 48%. (A 50% chance is what would be considered the 'normal chance' of experiencing above median rainfall).
- The Upper Quartile (top quartile of rainfall) for August-September at Macknade is equal to 97.6 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 29%. (25% chance is what would be considered the 'normal chance' of experiencing excessively high rainfall.)

## Climate Outlook August-September 2021

### AUGUST-SEPTEMBER RAIN OUTLOOK FOR INGHAM IN DETAIL:

Since 1892 when rainfall records commenced at Macknade, there have been 31 occasions when the SOI phase at the end of July was “Rapidly Rising”. These years were:

1898 1903 1906 1912 1916 1926 1928 1933 1936 1939 1943 1947  
 1948 1949 1954 1960 1963 1974 1979 1984 1985 1988 1995 1999  
 2003 2010 2011 2012 2017 2018 2020

During those 31 years, total rainfall for August-September exceeded the median 15 times. Therefore the chance of exceeding median rainfall for August-September is  $15/31 = 48\%$ .

A high amount of rainfall (i.e. rain greater than 97.6 mm) resulted 9 times. So the chance of high rainfall is equal to  $9/31 = 29\%$ .

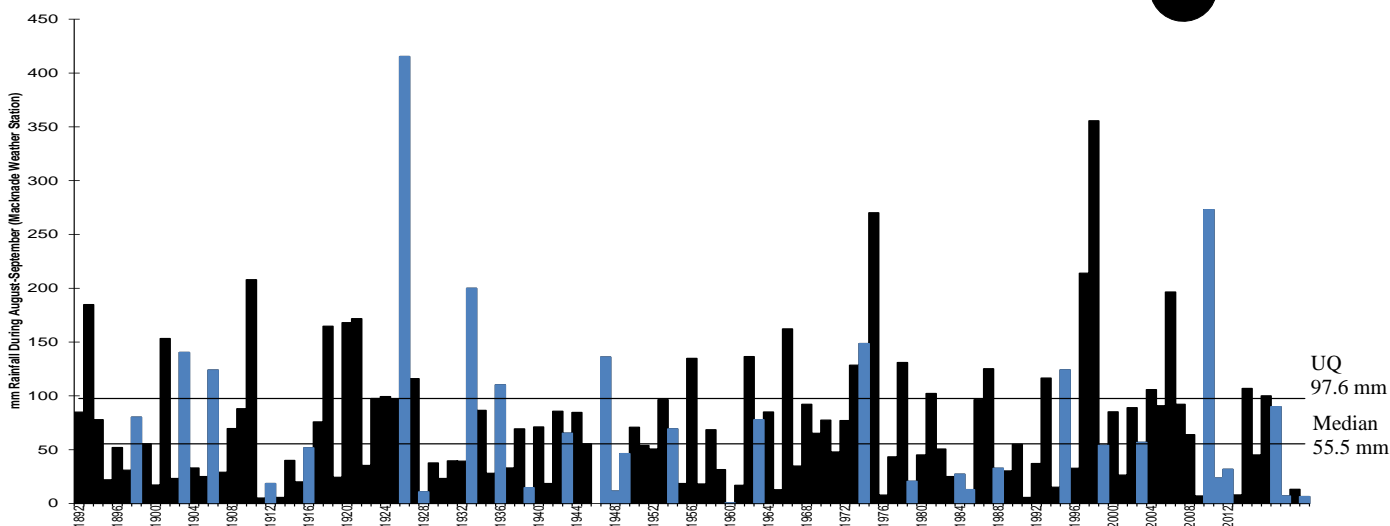
There have been 31 years when the SOI phase at the end of July was in a Rapidly Rising phase (coloured Bars)

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

The chance that the Rainfall during August-September will exceed the median =  $15/31 = 48\%$

In 9 of those years the Rainfall during August-September exceeded the Upper Quartile.

The chance that the Rainfall during August-September will exceed the Upper Quartile =  $9/31 = 29\%$



### Comparison to Last Year

	August-September 2021	August-September 2020
SOI Phase	Rapidly Rising	Rapidly Rising
Chance of above median rainfall	48%	46%
Chance of excessively high rainfall	29%	26%

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.