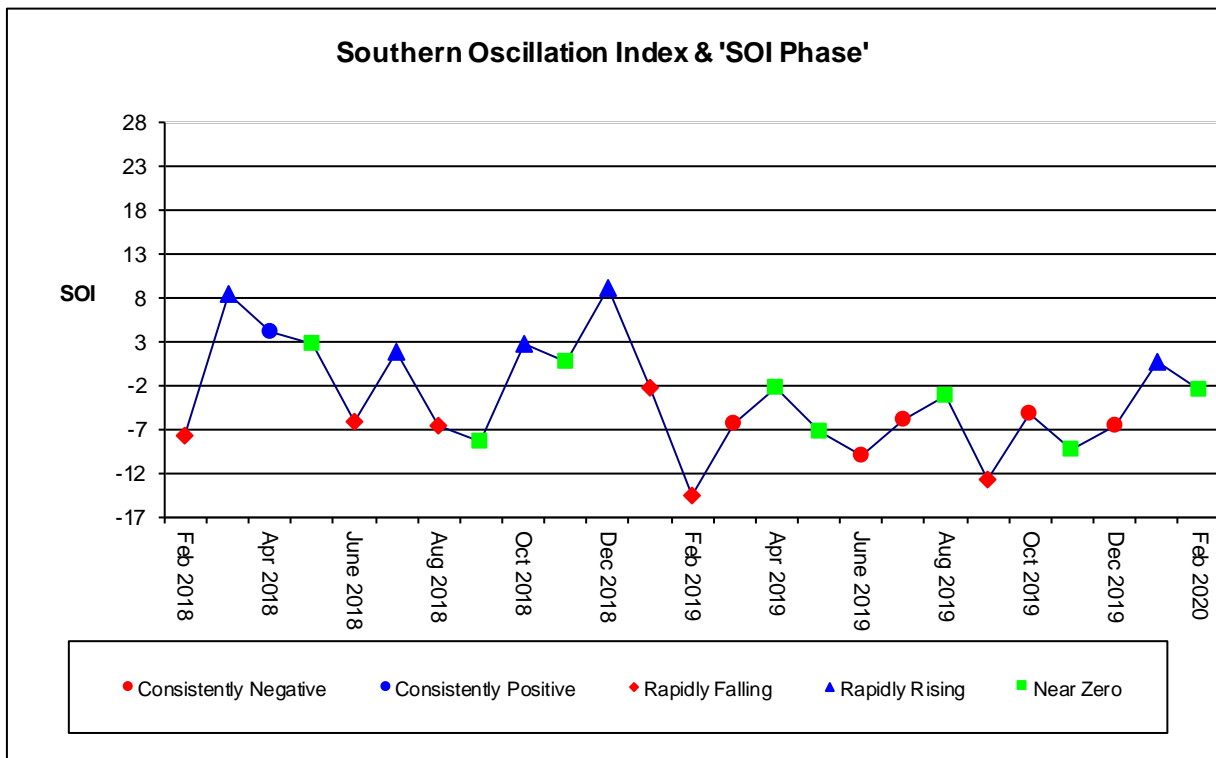


## Climate Outlook March - April 2020

### SOI TRACKER:

The monthly average SOI for February was negative 2.60 (-2.60) compared to positive 0.65 (+0.65) in January. Therefore the SOI phase for February came out as "Consistently Near Zero".

	SOI VALUE	SOI PHASE
End of March 2019	-6.48	"Consistently Negative"
End of April 2019	-2.43	"Consistently Near Zero"
End of May 2019	-7.41	"Consistently Near Zero"
End of June 2019	-9.99	"Consistently Negative"
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"



### RAINFALL OUTLOOK

- Median rainfall for March-April at Macknade is equal to 563.3 mm.
- Based on the new SOI phase, we have calculated the chance of exceeding median rainfall for March-April for the Herbert region to be 39%. (A 50% chance is what would be considered the 'normal chance' of experiencing above median rainfall).
- The Upper Quartile (top quartile of rainfall) for March-April at Macknade is equal to 864.5 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 10%. (25% chance is what would be considered the 'normal chance' of experiencing excessively high rainfall.)

## Climate Outlook March - April 2020

### MARCH-APRIL 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 February was “Rapidly Rising”. These years were:

1894 1895 1896 1901 1906 1907 1908 1909 1911 1913 1920 1923  
 1927 1932 1934 1936 1940 1947 1948 1960 1964 1966 1980 1981  
 1988 1991 1994 1995 1996 2013 2017

During those 31 years, total rainfall for March-April exceeded the median 12 times. Therefore the chance of exceeding median rainfall for March-April is  $12/31 = 39\%$ .

A high amount of rainfall (i.e. rain greater than 864.5 mm) resulted 3 times. So the chance of high rainfall is equal to  $3/31 = 10\%$ .

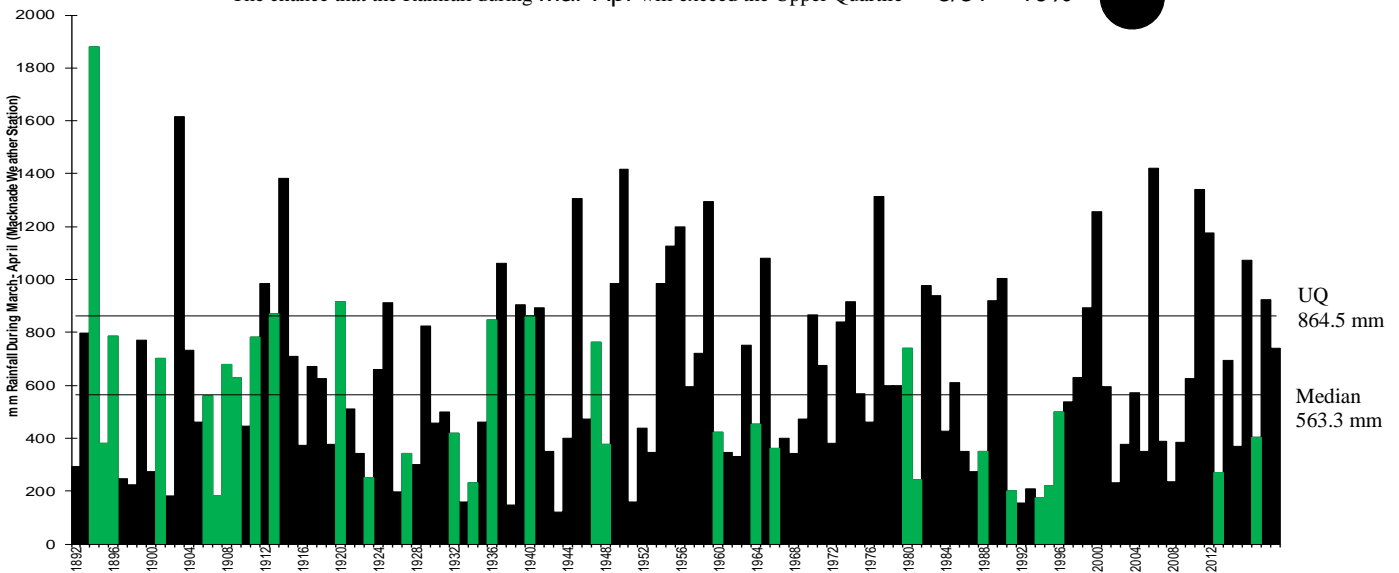
There have been 31 years when the SOI phase at the end of February was in a Consistently Near Zero phase (coloured Bars)

In 12 of those years the rainfall during Mar-Apr exceeded the median.

The chance that the Rainfall during Mar-Apr will exceed the median =  $12/31 = 39\%$

In 3 of those years the Rainfall during Mar-Apr exceeded the Upper Quartile.

The chance that the Rainfall during Mar-Apr will exceed the Upper Quartile =  $3/31 = 10\%$



### Comparison to Last Year

	Mar-Apr 2020	Mar-Apr 2019
SOI Phase	Consistently Near Zero	Rapidly Falling
Chance of above median rainfall	39%	50%
Chance of excessively high rainfall	10%	27%

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.