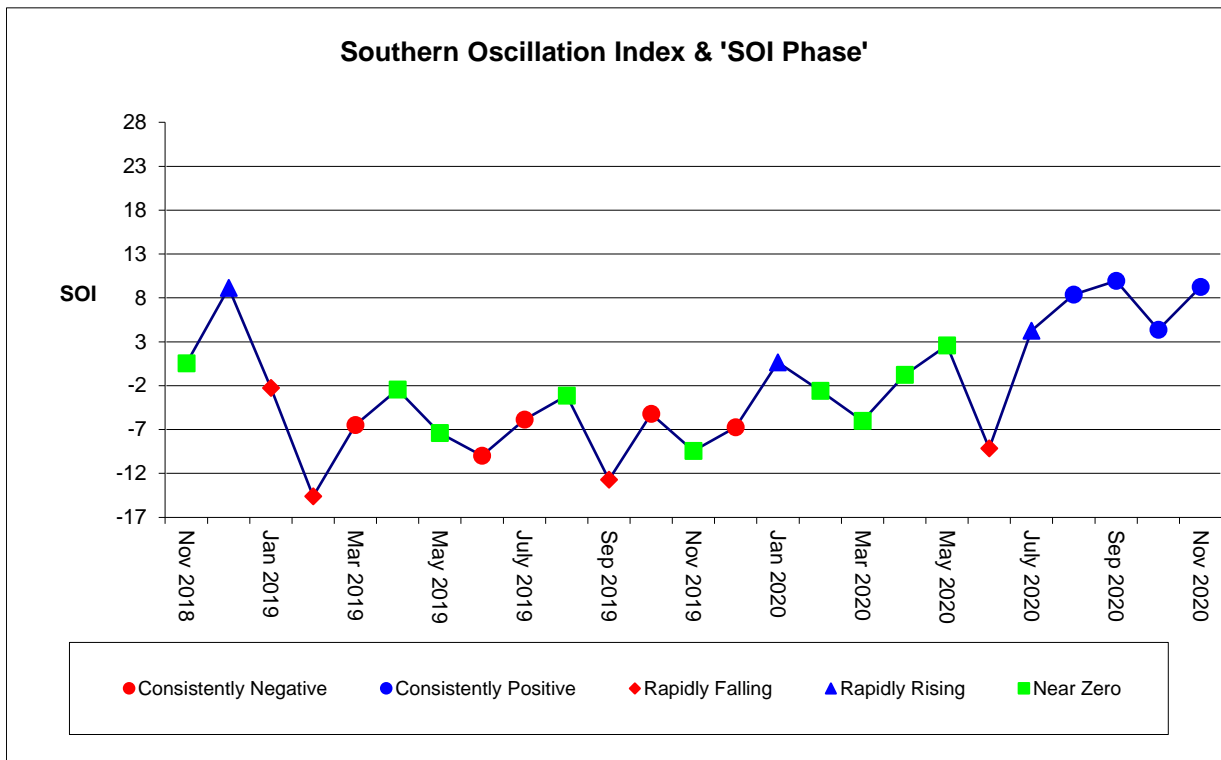


Climate Outlook Dec 2020 – Jan 2021

SOI TRACKER:

The monthly average SOI for November was positive 9.24 (+9.24) compared to positive 4.37 (+4.37) in October. Therefore the SOI phase for November came out as “Consistently Positive”.

	SOI VALUE	SOI PHASE
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"
End of September 2020	9.93	"Consistently Positive"
End of October 2020	4.37	"Consistently Positive"
End of November 2020	9.24	"Consistently Positive"



RAINFALL OUTLOOK

- Median rainfall for December-January at Macknade is equal to 538.6 mm.
- Based on the new SOI phase, we have calculated the chance of exceeding median rainfall for December-January for the Herbert region to be 60%. (A 50% chance is what would be considered the 'normal chance' of experiencing above median rainfall).
- The Upper Quartile (top quartile of rainfall) for December-January at Macknade is equal to 825.7 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 40%. (25% chance is what would be considered the 'normal chance' of experiencing excessively high rainfall.)

Climate Outlook Dec 2020 – Jan 2021

DECEMBER-JANUARY RAIN OUTLOOK FOR INGHAM IN DETAIL:

Since 1892 when rainfall records commenced at Macknade, there have been 35 occasions when the SOI phase at the end of November was “Consistently Positive”. These years were:

1892 1893 1894 1908 1909 1910 1916 1917 1921 1922 1924 1928
 1929 1933 1935 1938 1943 1948 1950 1955 1961 1962 1964 1970
 1971 1975 1988 1998 1999 2000 2007 2008 2010 2011 2017

During those 35 years, total rainfall for December-January exceeded the median 21 times. Therefore the chance of exceeding median rainfall for December-January is $21/35 = 60\%$.

A high amount of rainfall (i.e. rain greater than 825.7 mm) resulted 14 times. So the chance of high rainfall is equal to $14/35 = 40\%$.

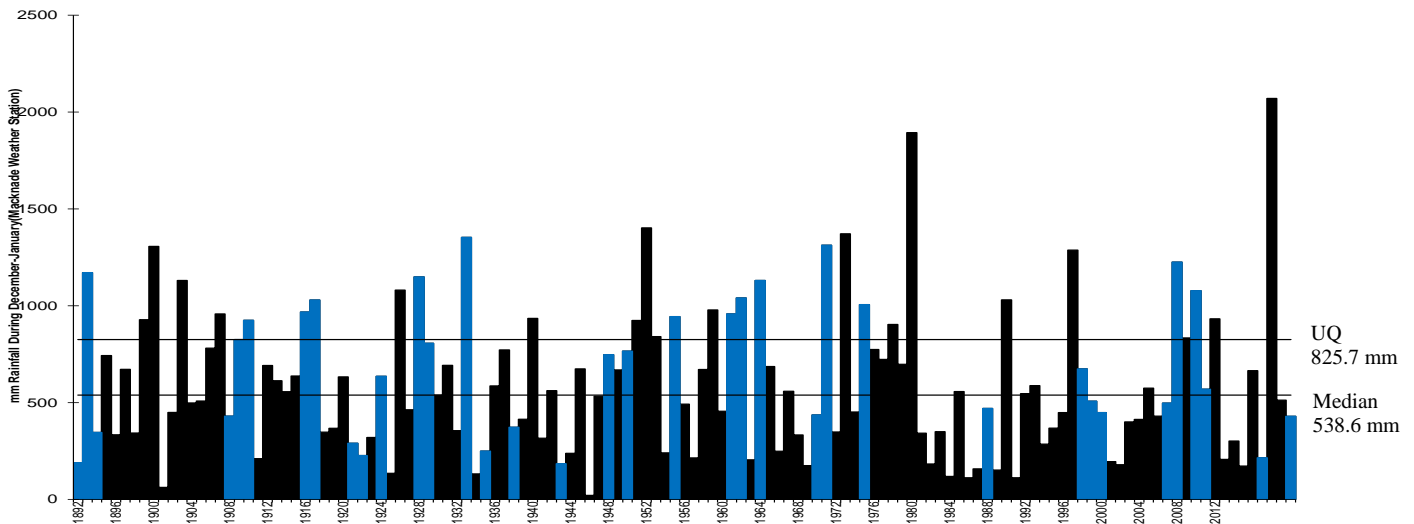
There have been 35 years when the SOI phase at the end of Nov was in a Consistently Positive phase (coloured Bars)

In 21 of those years the rainfall during Dec-Jan exceeded the median.

The chance that the Rainfall during Dec-Jan will exceed the median = $21/35 = 60\%$

In 14 of those years the Rainfall during Dec-Jan exceeded the Upper Quartile.

The chance that the Rainfall during Dec-Jan will exceed the Upper Quartile = $14/35 = 40\%$



Comparison to Last Year

	Dec 2020 – Jan 2021	Dec 2019 – Jan 2020
SOI Phase	Consistently Positive	Consistently Near Zero
Chance of above median rainfall	60%	54%
Chance of excessively high rainfall	40%	29%

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.