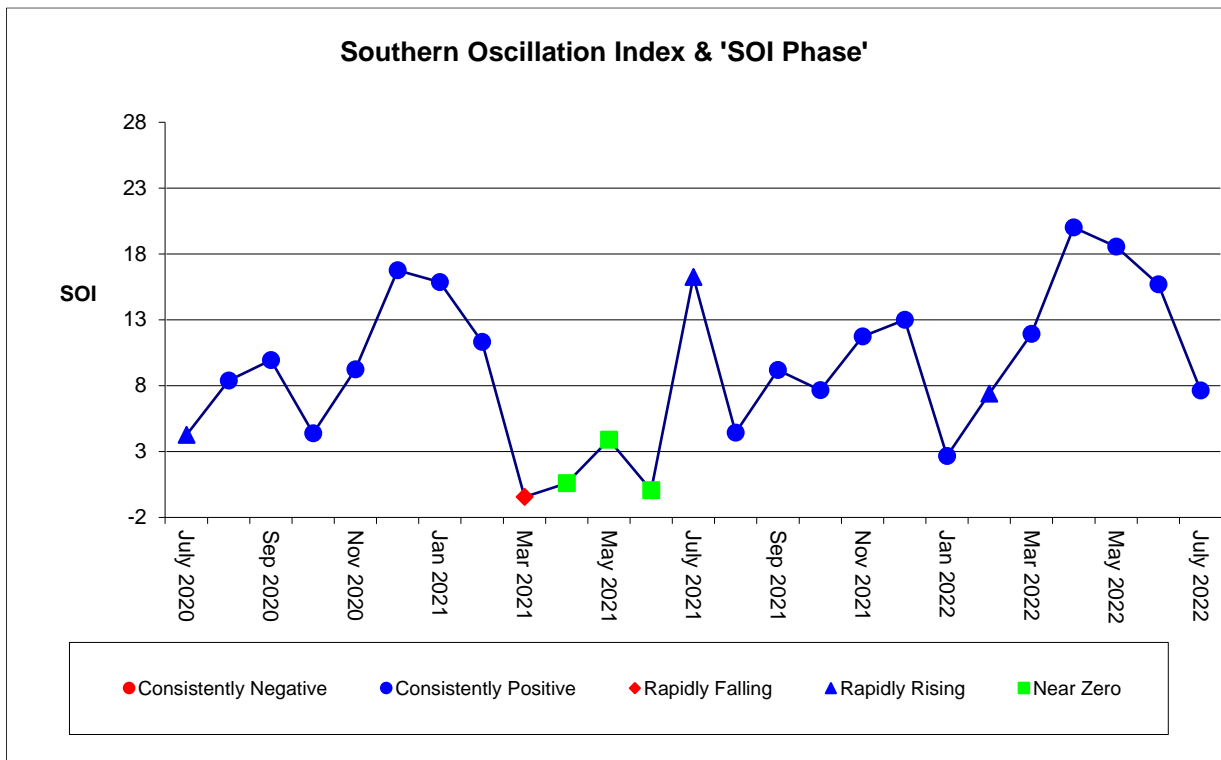


Climate Outlook August - September 2022

SOI TRACKER:

The monthly average SOI for July was positive 7.63 (+7.63) compared to positive 15.7 (+15.7) in June. Therefore the SOI phase for July came out as "Consistently Positive".

	SOI VALUE	SOI PHASE
End of August 2021	4.43	"Consistently Positive"
End of September 2021	9.19	"Consistently Positive"
End of October 2021	7.66	"Consistently Positive"
End of November 2021	11.73	"Consistently Positive"
End of December 2021	12.99	"Consistently Positive"
End of January 2022	2.65	"Consistently Positive"
End of February 2022	7.39	"Rapidly Rising"
End of March 2022	11.93	"Consistently Positive"
End of April 2022	20.01	"Consistently Positive"
End of May 2022	18.56	"Consistently Positive"
End of June 2022	15.7	"Consistently Positive"
End of July 2022	7.63	"Consistently Positive"



RAINFALL OUTLOOK

- Median rainfall for August-September at Macknade is equal to 56.2 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 71%. (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 39%. (25% chance is what would be considered the 'normal chance' of experiencing excessively high rainfall.)

Climate Outlook August - September 2022

AUGUST-SEPTEMBER RAIN OUTLOOK FOR INGHAM IN DETAIL:

Since 1892 when rainfall records commenced at Macknade, there have been 28 occasions when the SOI phase at the end of July was “Consistently Positive”. These years were:

1892 1893 1900 1901 1909 1910 1917 1920 1921 1924 1931 1934
 1938 1945 1950 1952 1955 1956 1964 1968 1973 1975 1981 1986
 1989 1996 1998 2013

During those 28 years, total rainfall for August-September exceeded the median 20 times. Therefore the chance of exceeding median rainfall for August-September is $20/28 = 71\%$.

A high amount of rainfall (i.e. rain greater than 97.6 mm) resulted 11 times. So the chance of high rainfall is equal to $11/28 = 39\%$.

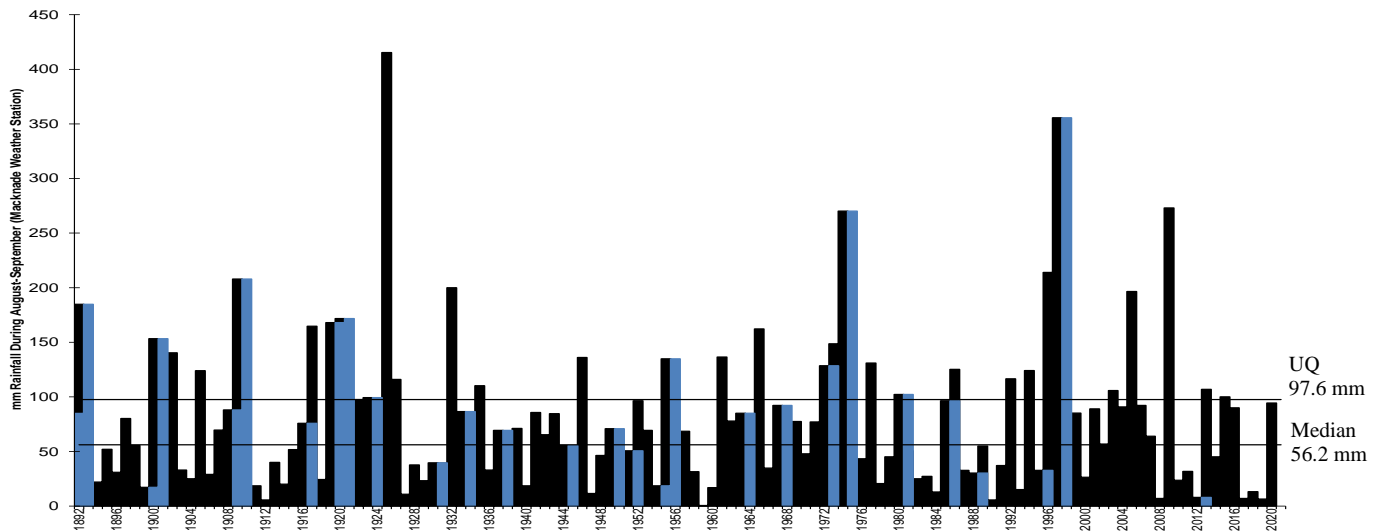
There have been 28 years when the SOI phase at the end of July was in a Consistently Positive phase (coloured Bars)

In 20 of those years the rainfall during Aug-Sept exceeded the median.

The chance that the Rainfall during Aug-Sept will exceed the median = $20/28 = 71\%$

In 11 of those years the Rainfall during Aug-Sept exceeded the Upper Quartile.

The chance that the Rainfall during Aug-Sept will exceed the Upper Quartile = $11/28 = 39\%$



Comparison to Last Year

	August-September 2022	August-September 2021
SOI Phase	Consistently Positive	Rapidly Rising
Chance of above median rainfall	71%	50%
Chance of excessively high rainfall	39%	28%

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.