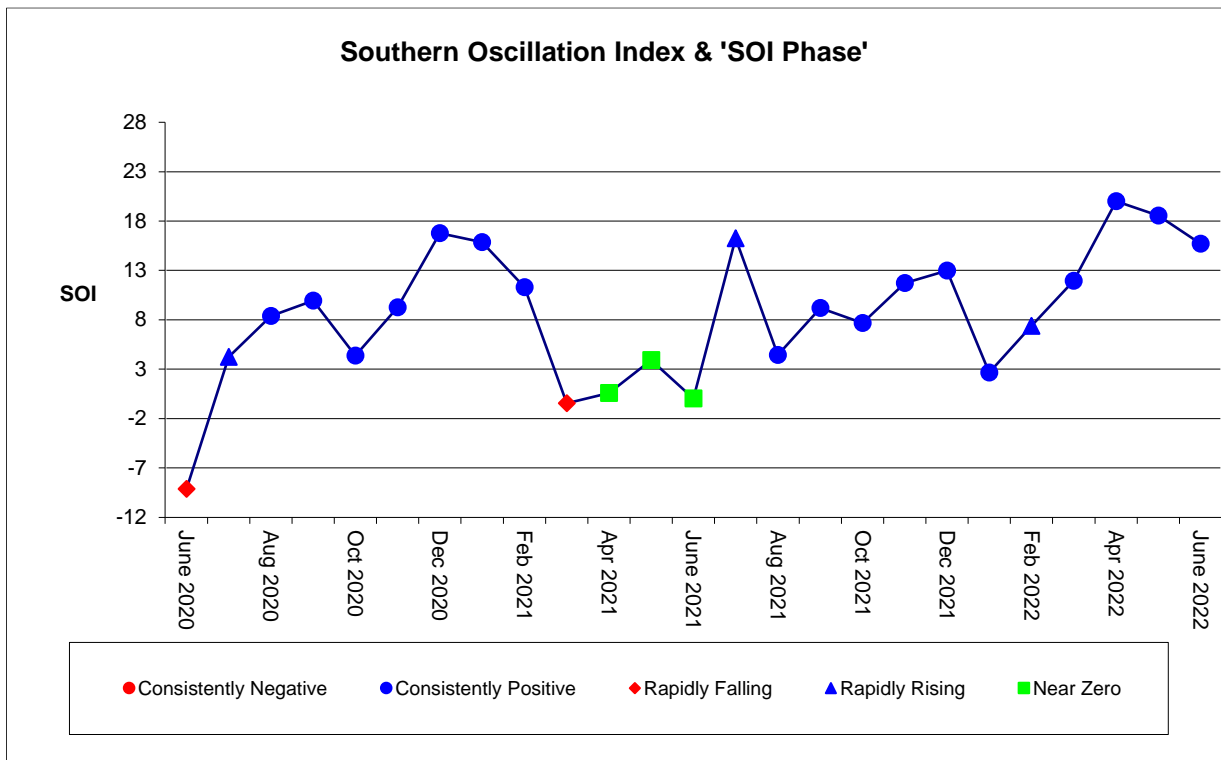


Climate Outlook July - August 2022

SOI TRACKER:

The monthly average SOI for June was positive 15.70 (+15.70) compared to positive 18.56 (+18.56) in May. Therefore the SOI phase for June came out as "Consistently Positive".

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



RAINFALL OUTLOOK

- Median rainfall for July-August at Macknade is equal to 68.3 mm.
- Based on the new SOI phase, we have calculated the chance of exceeding median rainfall for July-August for the Herbert region to be 67%. (A 50% chance is what would be considered the 'normal chance' of experiencing above median rainfall).
- The Upper Quartile (top quartile of rainfall) for July-August at Macknade is equal to 111.2 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 42%. (25% chance is what would be considered the 'normal chance' of experiencing excessively high rainfall.)

Climate Outlook July - August 2022

JULY-AUGUST RAIN OUTLOOK FOR INGHAM IN DETAIL:

Since 1892 when rainfall records commenced at Macknade, there have been 24 occasions when the SOI phase at the end of June was “Consistently Positive”. These years were:

1892 1893 1902 1916 1917 1921 1924 1931 1938 1942 1952 1955
 1956 1962 1964 1968 1971 1974 1975 1978 1981 1989 2010 2013

During those 24 years, total rainfall for July-August exceeded the median 16 times. Therefore the chance of exceeding median rainfall for July-August is $16/24 = 67\%$.

A high amount of rainfall (i.e. rain greater than 111.2 mm) resulted 10 times. So the chance of high rainfall is equal to $10/24 = 42\%$.

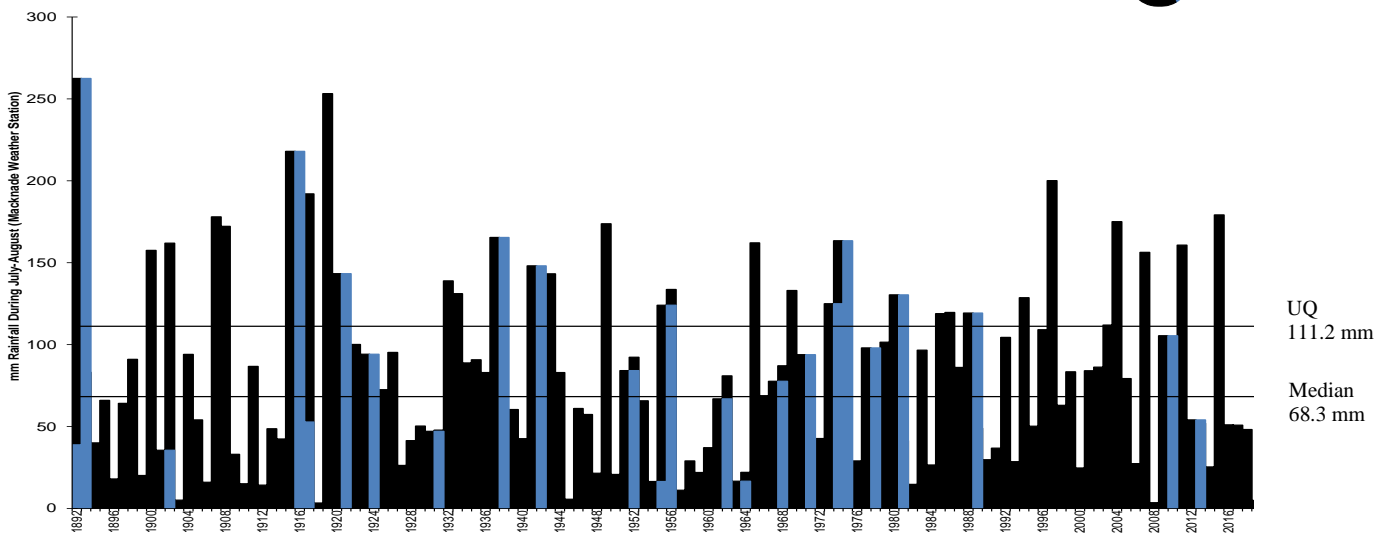
There have been 24 years when the SOI phase at the end of June was in a Consistently Positive phase (coloured Bars)

In 16 of those years the rainfall during Jul-Aug exceeded the median.

The chance that the Rainfall during Jul-Aug will exceed the median = $16/24 = 67\%$

In 10 of those years the Rainfall during Jul-Aug exceeded the Upper Quartile.

The chance that the Rainfall during Jul-Aug will exceed the Upper Quartile = $10/24 = 42\%$



Comparison to Last Year

	July-August 2022	July-August 2021
SOI Phase	Consistently Positive	Consistently Near Zero
Chance of above median rainfall	67%	46%
Chance of excessively high rainfall	42%	14%

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.