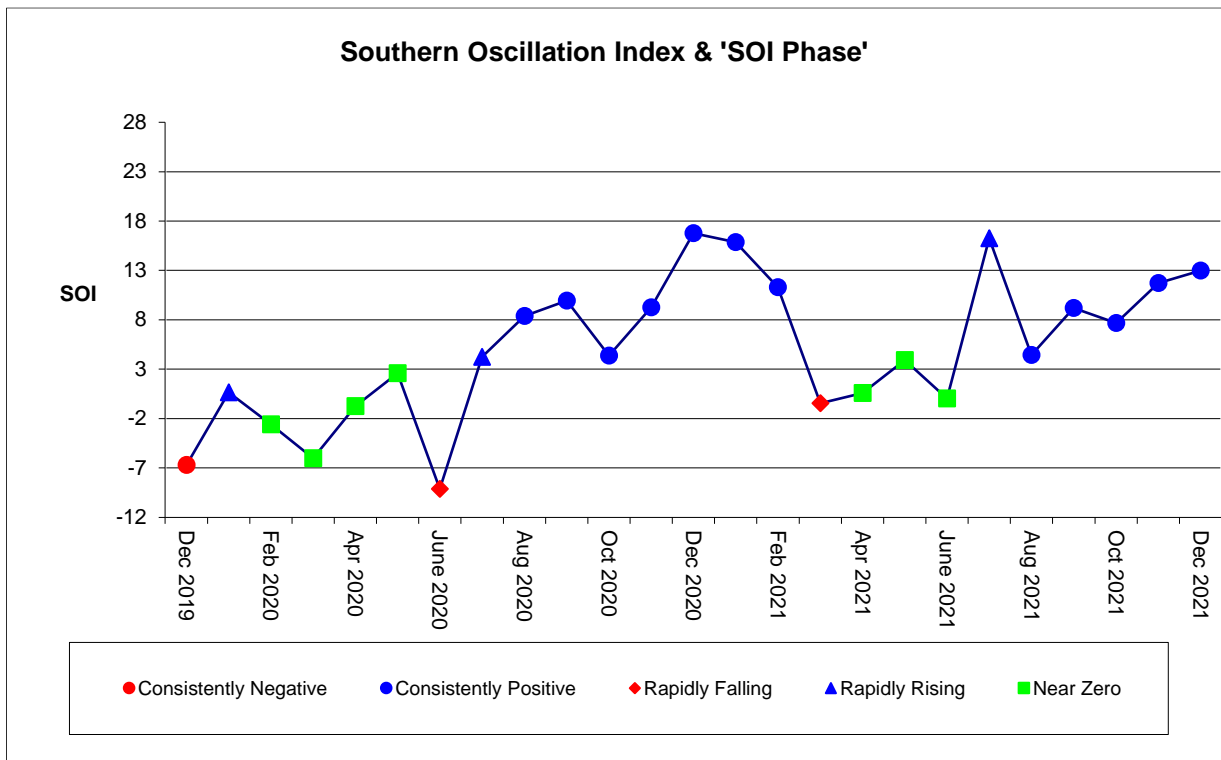


## Climate Outlook January-February 2022

### SOI TRACKER:

The monthly average SOI for December was positive 12.99 (+12.99) compared to positive 11.73 (+11.73) in November. Therefore the SOI phase for December came out as "Consistently Positive".

	SOI VALUE	SOI PHASE
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"
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"



### RAINFALL OUTLOOK

- Median rainfall for January-February at Macknade is equal to 814.00 mm.
- Based on the new SOI phase, we have calculated the chance of exceeding median rainfall for January-February for the Herbert region to be 70%. (A 50% chance is what would be considered the 'normal chance' of experiencing above median rainfall).
- The Upper Quartile (top quartile of rainfall) for January-February at Macknade is equal to 1099.4 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 30%. (25% chance is what would be considered the 'normal chance' of experiencing excessively high rainfall.)

## Climate Outlook January – February 2022

### JANUARY-FEBRUARY RAIN OUTLOOK FOR INGHAM IN DETAIL:

Since 1892 when rainfall records commenced at Macknade, there have been 30 occasions when the SOI phase at the end of December was “Consistently Positive”. These years were:

1893 1894 1907 1910 1911 1917 1918 1922 1923 1925 1930 1934 1948  
 1951 1956 1960 1961 1962 1971 1974 1976 1989 1999 2000 2001 2008  
 2009 2011 2012 2021

During those 30 years, total rainfall for January-February exceeded the median 21 times. Therefore the chance of exceeding median rainfall for January-February is  $21/30 = 70\%$ .

A high amount of rainfall (i.e. rain greater than 1099.4 mm) resulted 9 times. So the chance of high rainfall is equal to  $9/30 = 30\%$ .

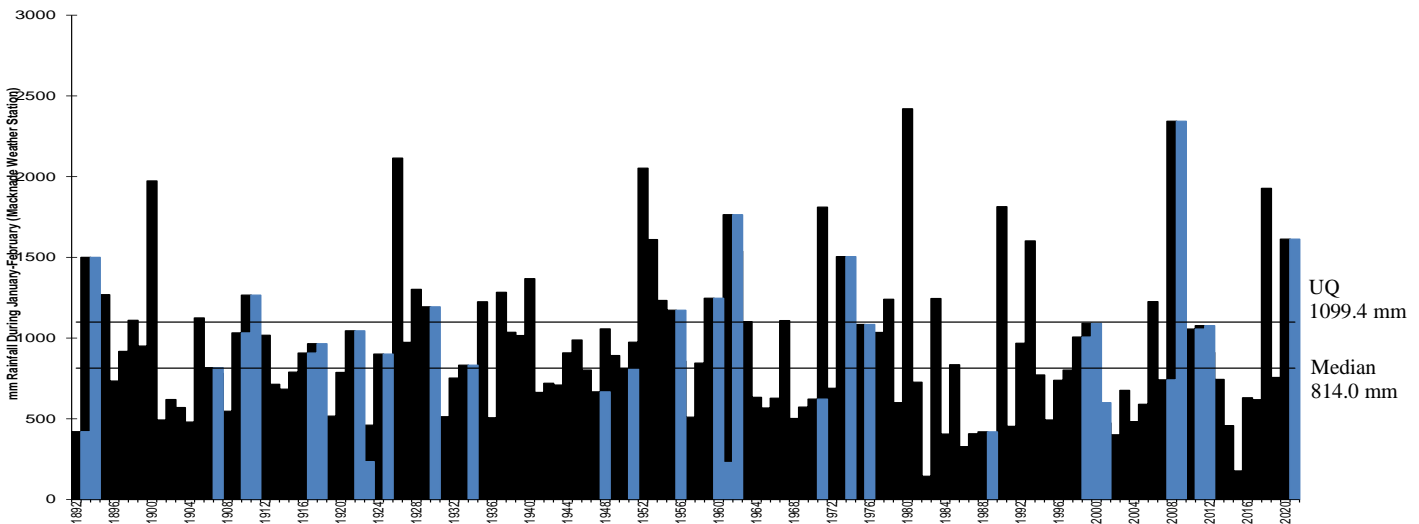
There have been 30 years when the SOI phase at the end of December was in a Consistently Positive phase (coloured Bars)

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

The chance that the Rainfall during Jan-Feb will exceed the median =  $21/30 = 70\%$

In 9 of those years the Rainfall during Jan-Feb exceeded the Upper Quartile.

The chance that the Rainfall during Jan-Feb will exceed the Upper Quartile =  $9/30 = 30\%$



### Comparison to Last Year

	Jan – Feb 2022	Jan-Feb 2021
SOI Phase	Consistently Positive	Consistently Positive
Chance of above median rainfall	70%	68%
Chance of excessively high rainfall	30%	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.