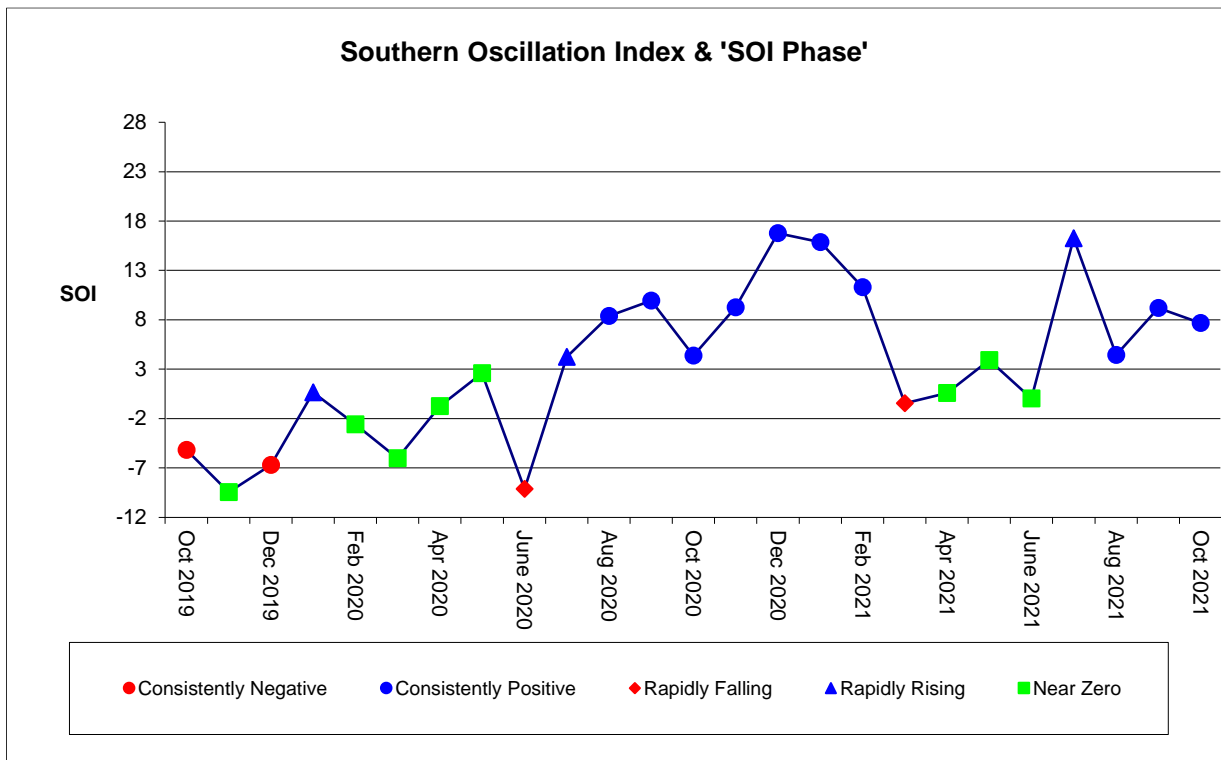


Climate Outlook November-December 2021

SOI TRACKER:

The monthly average SOI for October was positive 7.66 (+7.66) compared to positive 9.19 (+9.19) in September. Therefore the SOI phase for October came out as "Consistently Positive".

	SOI VALUE	SOI PHASE
End of November 2020	9.24	"Consistently Positive"
End of December 2020	16.77	"Consistently Positive"
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"



RAINFALL OUTLOOK

- Median rainfall for November-December at Macknade is equal to 197.8 mm.
- Based on the new SOI phase, we have calculated the chance of exceeding median rainfall for November-December for the Herbert region to be 73%. (A 50% chance is what would be considered the 'normal chance' of experiencing above median rainfall).
- The Upper Quartile (top quartile of rainfall) for November-December at Macknade is equal to 341.3 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 46%. (25% chance is what would be considered the 'normal chance' of experiencing excessively high rainfall.)

Climate Outlook November-December 2021

NOVEMBER-DECEMBER RAIN OUTLOOK FOR INGHAM IN DETAIL:

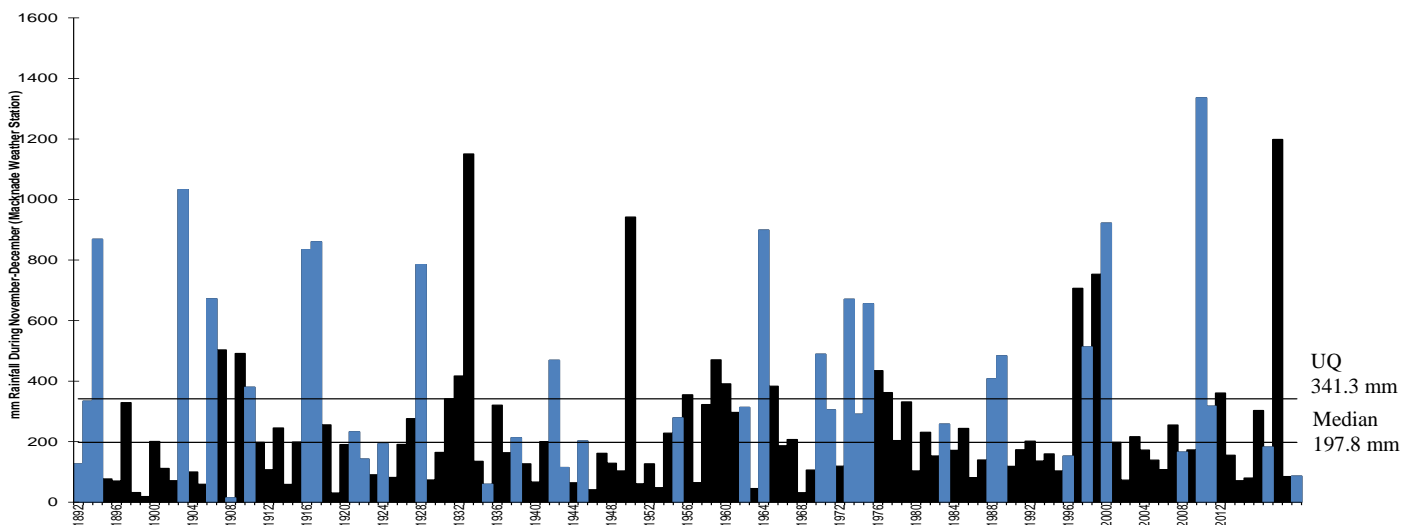
Since 1892 when rainfall records commenced at Macknade, there have been 37 occasions when the SOI phase at the end of October was “Consistently Positive”. These years were:

1892 1893 1894 1903 1906 1908 1910 1916 1917 1921 1922 1924
 1928 1935 1938 1942 1943 1945 1955 1962 1964 1970 1971 1973
 1974 1975 1983 1988 1989 1996 1998 2000 2008 2010 2011 2017
 2020

During those 37 years, total rainfall for November-December exceeded the median 27 times. Therefore the chance of exceeding median rainfall for November-December is $27/37 = 73\%$.

A high amount of rainfall (i.e. rain greater than 341.3 mm) resulted 17 times. So the chance of high rainfall is equal to $17/37 = 46\%$.

There have been **37** years when the SOI phase at the end of **October** was in a **Consistently Positive** phase (coloured Bars)
 In **27** of those years the rainfall during **Nov-Dec** exceeded the median.
 The chance that the Rainfall during **Nov-Dec** will exceed the median = $27/37 = 73\%$
 In **17** of those years the Rainfall during **Nov-Dec** exceeded the Upper Quartile.
 The chance that the Rainfall during **Nov-Dec** will exceed the Upper Quartile = $17/37 = 46\%$



Comparison to Last Year

	November-December 2021	November-December 2020
SOI Phase	Consistently Positive	Consistently Positive
Chance of above median rainfall	73%	72%
Chance of excessively high rainfall	46%	44%

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.