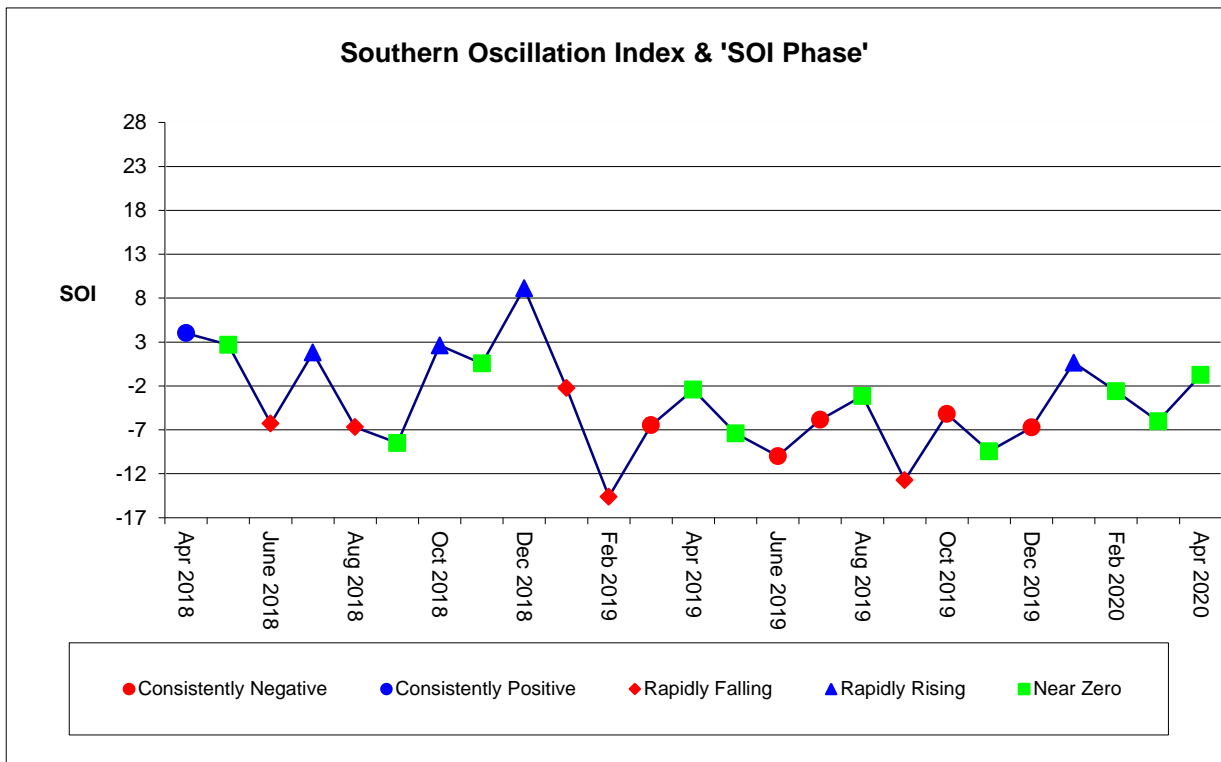


Climate Outlook May - June 2020

SOI TRACKER:

The monthly average SOI for April was negative 0.75 (-0.75) compared to negative 6.02 (-6.02) in March. Therefore the SOI phase for April came out as "Consistently Near Zero".

| | SOI VALUE | SOI PHASE |
|-----------------------|-----------|--------------------------|
| End of May 2019 | -7.41 | "Consistently Near Zero" |
| End of June 2019 | -9.99 | "Consistently Negative" |
| End of July 2019 | -5.86 | "Consistently Negative" |
| End of August 2019 | -3.14 | "Consistently Near Zero" |
| End of September 2019 | -12.72 | "Rapidly Falling" |
| End of October 2019 | -5.19 | "Consistently Negative" |
| End of November 2019 | -9.45 | "Consistently Near Zero" |
| 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" |



RAINFALL OUTLOOK

- Median rainfall for May-June at Macknade is equal to 140.0 mm.
- Based on the new SOI phase, we have calculated the chance of exceeding median rainfall for May-June for the Herbert region to be 46%. (A 50% chance is what would be considered the 'normal chance' of experiencing above median rainfall).
- The Upper Quartile (top quartile of rainfall) for May-June at Macknade is equal to 220.1 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 28%. (25% chance is what would be considered the 'normal chance' of experiencing excessively high rainfall.)

Climate Outlook May - June 2020

MAY - JUNE RAIN OUTLOOK FOR INGHAM IN DETAIL:

Since 1892 when rainfall records commenced at Macknade, there have been 39 occasions when the SOI phase at the end of April was “Consistently Near Zero”. These years were:

1893 1894 1895 1896 1906 1907 1908 1911 1913 1920 1929 1930 1932
 1937 1942 1946 1949 1951 1953 1955 1957 1958 1962 1964 1968 1970
 1972 1973 1978 1979 1982 1986 1988 1996 2001 2002 2003 2007 2019

During those 39 years, total rainfall for May-June exceeded the median 18 times. Therefore the chance of exceeding median rainfall for May-June is $18/39 = 46\%$.

A high amount of rainfall (i.e. rain greater than 220.1 mm) resulted 11 times. So the chance of high rainfall is equal to $11/39 = 28\%$.

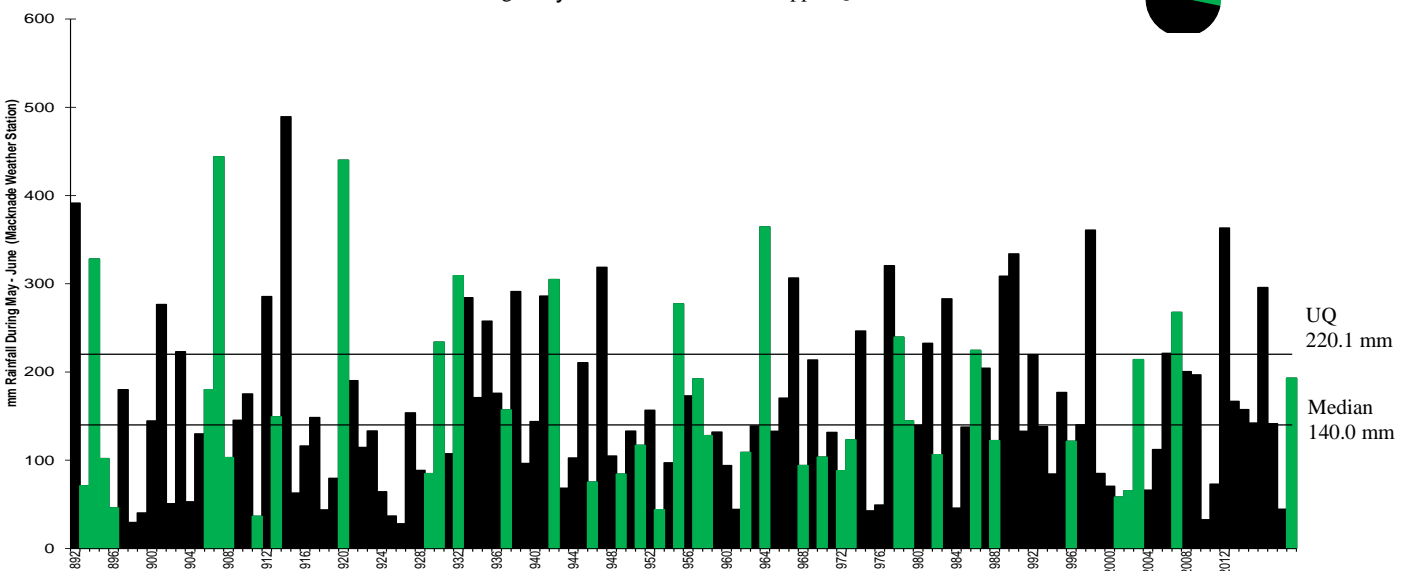
There have been 39 years when the SOI phase at the end of April was in a Consistently Near Zero phase (coloured Bars)

In 18 of those years the rainfall during May-June exceeded the median.

The chance that the Rainfall during May-June will exceed the median = $18/39 = 46\%$

In 11 of those years the Rainfall during May-June exceeded the Upper Quartile.

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



Comparison to Last Year

| | May-June 2020 | May-June 2019 |
|-------------------------------------|------------------------|------------------------|
| SOI Phase | Consistently Near Zero | Consistently Near Zero |
| Chance of above median rainfall | 46% | 45% |
| Chance of excessively high rainfall | 28% | 26% |

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.