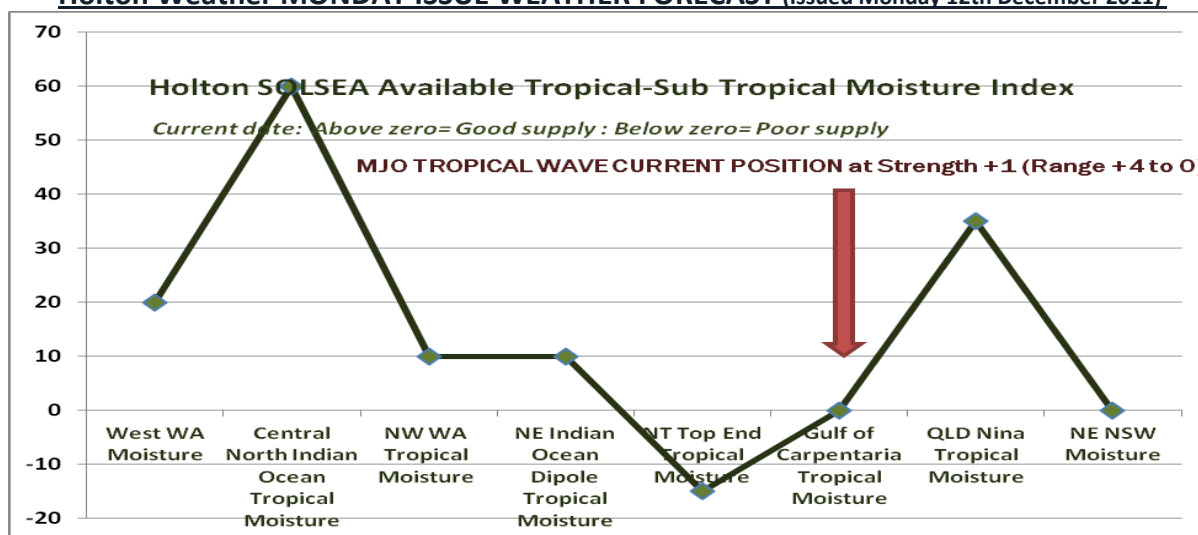


## HOLTON WEATHER FORECASTING PTY LTD

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### Holton Weather MONDAY ISSUE WEATHER FORECAST (Issued Monday 12th December 2011)



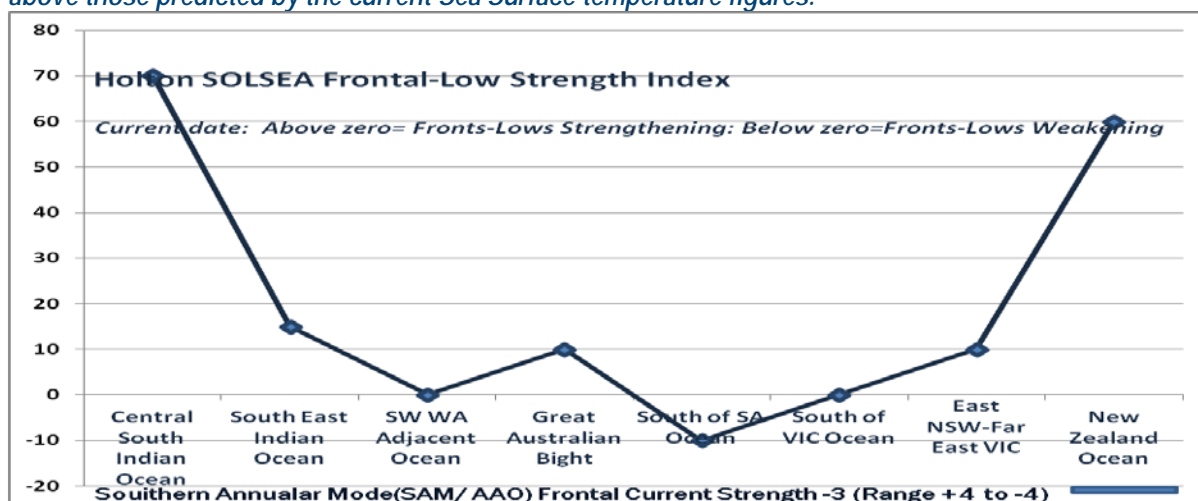
**Graph 1: HOLTON SOLSEA Tropical-Sub-Tropical Moisture Index**

1. The "take-home" messages from the above graph 1, are that:

(a) Tropical moisture sources are mainly Above Average in Central Indian Ocean areas & in the Near Australian Nina Pacific Ocean Areas.

(b) Moisture sources are around Average across, "in the middle", Northern Australian Areas.

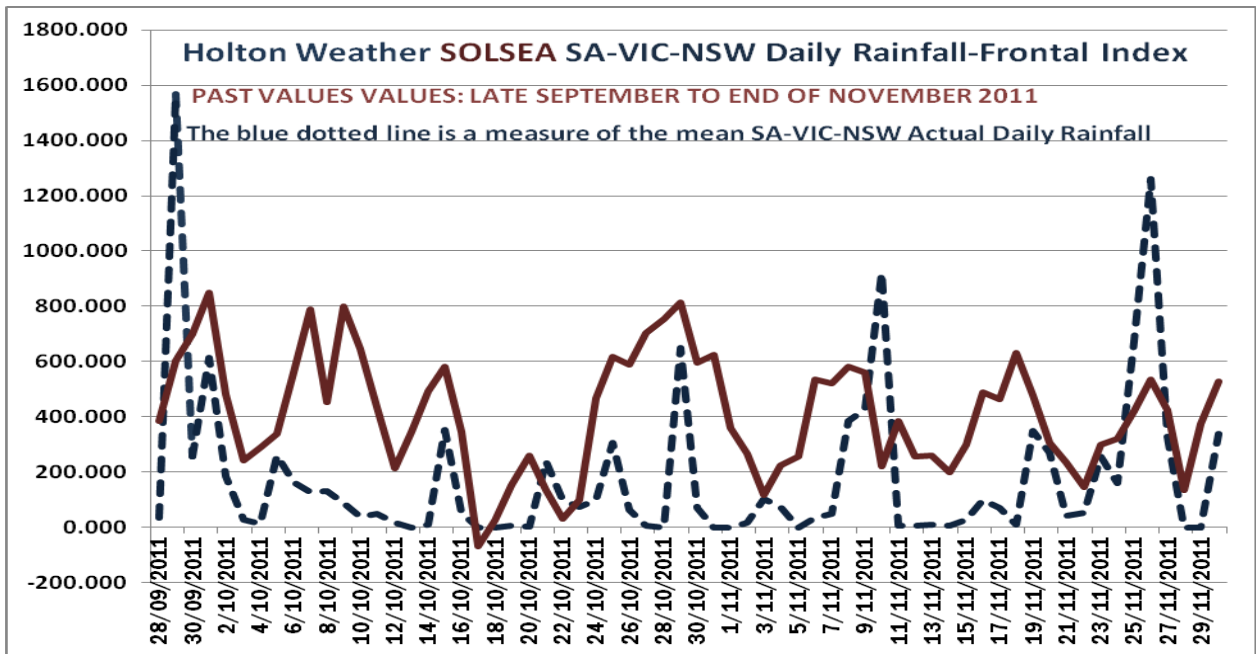
*HOWEVER*, an MJO tropical Wave currently in the North Australian Area is boosting humidity levels well above those predicted by the current Sea Surface temperature figures.



**Graph 2: HOLTON SOLSEA Frontal-Low Strength Index**

1. The "take-home" messages from the above graph 2, are that Frontal-low strength activity is forecast to be:

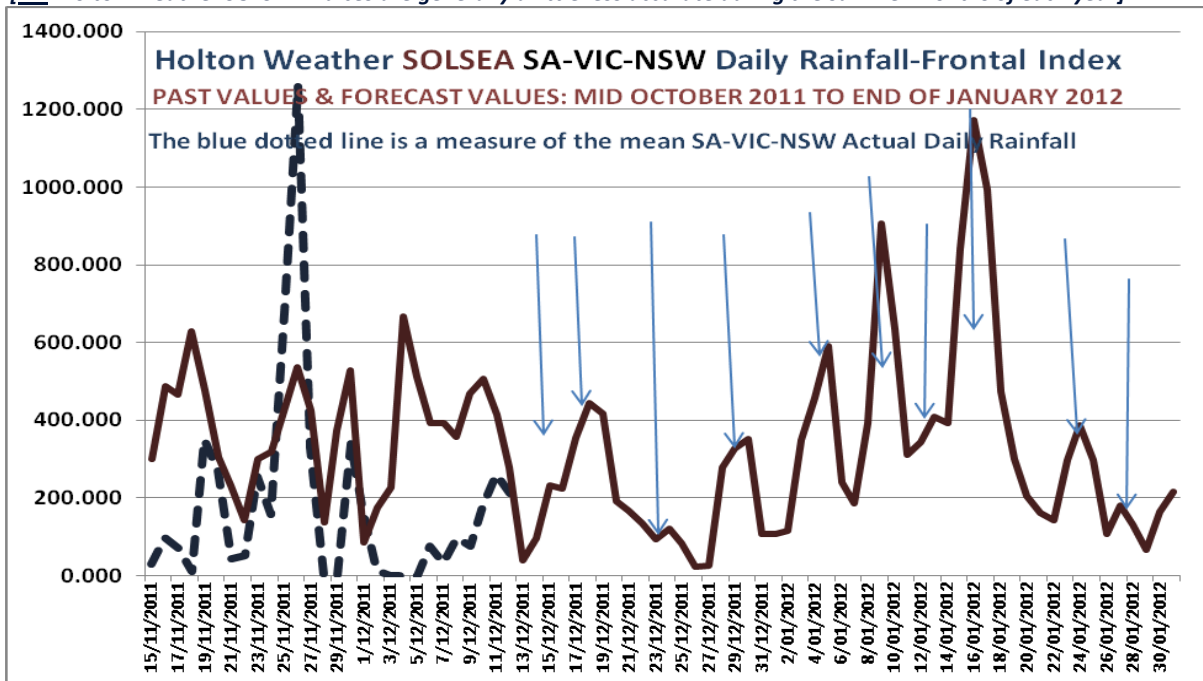
(a) Above Average in Central Indian Ocean areas, and are likely to produce strengthening fronts & cut-off low pressures in this area...And these are expected to drift across Southern Australia from west to east or NW to SE causing unsettled conditions at times. These cut-off low pressures may continue for a while, courtesy of this current ocean Indian Ocean sea surface temperature set-up.



**Graph 3A: Past few months of Actual SA-VIC-NSW SOLSEA Vs Actual SA-VIC-NSW Rain Records: Late September 2011 to End of November 2011**

*The Red SOLSEA Index shows when fronts-troughs are expected to pass through the SA-VIC-NSW regions, and hence are the most likely rain days. Generally, the higher the SOLSEA Index the higher the probability of rainfall and the higher the amount of rain expected.*

*[NB: Holton Weather SOLSEA Indices are generally a little less accurate during the summer months of each year]*



**Graph 3B: Current few months of Actual-Forecast SA-VIC-NSW SOLSEA Vs Actual SA-VIC-NSW Rain Records: Mid November 2011 to End of January 2012**

*The Red SOLSEA Index shows when fronts-troughs are expected to pass through the SA-VIC-NSW regions, and hence are the most likely rain days. Generally, the higher the SOLSEA Index the higher the probability of rainfall and the higher the amount of rain expected*

*[NB: Holton Weather SOLSEA Indices are generally a little less accurate during the summer months of each year]*

## **SOLSEA WEATHER FORECAST GRAPH NOTES**

**1.** There is a double Moderate SOLSEA peak of 440 later this week, from late Thursday the 15th December to Tuesday next week, the 20th December 2011. At the same time a Tropical MJO Wave is wandering to & fro across Northern Australia creating an extra moisture source.

This SOLSEA forecast rain-storm event appears as a large slow moving cut-off low pressure moving from west to east across Southern Australia .....

>>>And therefore is expected to produce widespread rain and storms in most areas of SA-VIC-NSW.....

>>>With scattered moderate to heavy type rainfalls of 15 to 35mm in most SA-VIC-NSW Areas, with isol 40 to 60mm plus likely in some East SA/VIC and NSW areas.

**2.** A weak rain-storm SOLSEA of 120 is then expected around the following weekend of the forecast period. This may produce a few showers & isol storms, but big rains appear unlikely at this stage.

**3.** After an expected fine or mainly fine around Christmas period, an increasing array of SOLSEA rain-low-frontal -storm peaks reaching up to quite strong 900 to 1200 levels. These fairly high SOLSEA Peaks, plus a weak to Mod La Nina, appear to make for interesting weather for Australia during January 2012 period ahead.

D A Y	D A T E	SOLSEA WEATHER TABLE SA: ALL CENTRAL AREAS	MAX TEMP RANGE	RAIN RANGE mm	RAIN mm LIKELY TOTAL	FROST RISK	WIND DIR	WIND SPEED
Mo	12	FINE- POSSIBLE LATE SHOWER SOUTH	LOW 20S	0-4	0	X	SW-S	L/MOD
Tu	13	ISOL TO SCT SHOWERS AM MOST SOUTH, BEC FINE LATER	LOW 20S	1-5	1-3	X	SW-S	MOD
We	14	FINE	MID 20S	0	0	X	S-E	MOD
Th	15	FINE-CLOUD INCREASING IN THE WEST LATER	HIGH 20S	0	0	X	SE-NE	L/MOD
Fr	16	CLOUD INCREASING THROUGHOUT POSS LATE SHOWERS	NEAR 30	0-7	0-5	X	E-NE	L/MOD
Sa	17	SHOWERS & ISOL STORMS	LOW 30S	4-15	5-14	X	NE	M/FSH
Su	18	SHOWERS-RAIN AT TIMES & ISOL STORMS	MID 20S	7-25	10-20	X	N-SW	F/STG
Mo	19	SHOWERS EASING AND BEC ISOLATED TO SCT LATER	LOW 20S	3-14	4-12	X	NW-SW	FRESH
Tu	20	ISOL TO SCT SHOWERS MOST SOUTH	LOW 20S	1-7	1-4	X	SW-SE	M/FSH
We	21	ISOL SHOWERS AM MOST FAR SOUTH	LOW 20S	0-4	0-1	X	SE-NE	MOD
Th	22	FINE	MID 20S	0	0	X	SE-NE	L/MOD
Fr	23	FINE	HIGH 20S	0	0	X	SE-NE	L/MOD
Sa	24	<u>Christmas Eve:</u> FINE OR MAINLY FINE	NEAR 30	0-5	0-5	X	E-NE	L/MOD
Su	25	<u>Christmas Day:</u> FINE OR MAINLY FINE Wishing all a happy, safe, prosperous & blessed Christmas & New Year 2012	HIGH 20S TO NEAR 30	0-5	0-5	X	VRB-S	L/MOD

\*\*\*All Holton Weather Forecasts are based on exclusive to Holton Weather SOLSEA Computer Model  
Outputs (Formulated from Solar Energy, Sea Surface Temperature, & Atmospheric Input Data)

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