

CHART DISCUSSION 17-Oct-2025

Melbourne Long Range Forecast for the Upcoming Period



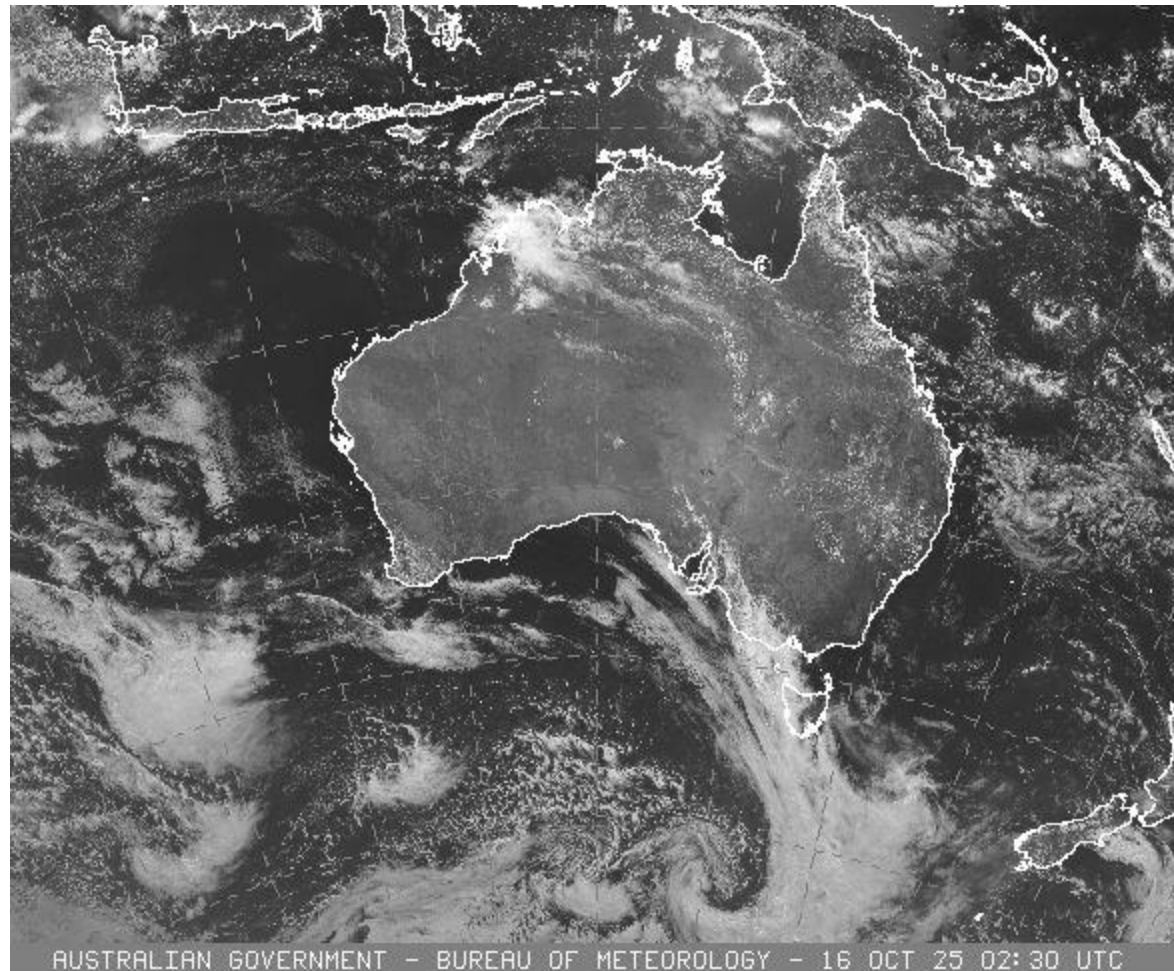
NOAA Data At: 10am, 16-10-2025

Minimum temperatures are for the night/early morning, maximum temperatures are for the daytime, whilst precipitation amounts and probabilities are for the 24 hours from midnight.

Temperatures for the Melbourne observation site (at Olympic Park) are in brackets.

Day & Date	Morning	Afternoon	Min Temp (deg C)	Max Temp (deg C)	Precip Amount (mm)	Precip Prob (%)	9am Wind/ 3pm Wind Melb Apt (km/hr)
Fri-17-10-2025	Cloudy. 	Cloudy. 	13.2 (12.9)	19.7 (18.5)	0	39	WSW 20 SSW 23 Gusts45
Sat-18-10-2025	Partly Cloudy. 	Sunny. 	10.4 (10.1)	20.6 (19.4)	0	8	WSW 8 S 10 Gusts30
Sun-19-10-2025	Windy. 	Windy. 	15.4 (14.9)	28.3 (27.9)	0	25	N 40 N 35 Gusts70
Mon-20-10-2025	Shower. 	Cloudy. 	17.6 (17)	23.9 (22.6)	3.2	73	SW 8 S 10 Gusts30
Tue-21-10-2025	Partly Cloudy. 	Thunder. 	14.4 (13.8)	21.1 (20.5)	0.4	59	N 15 NNE 20 Gusts50
Wed-22-10-2025	Shower. 	Shower. 	11.5 (11.6)	17.9 (16.1)	2.1	65	WSW 25 SSW 25 Gusts60
Thu-23-10-2025	Cloudy. 	Partly Cloudy. 	11.2 (10.7)	17.9 (16.8)	0	39	S 8 S 15 Gusts30
Fri-24-10-2025	Fog. 	Partly Cloudy. 	10.3 (9.8)	21.8 (20.6)	0	25	NNE 8 NNE 15 Gusts35
Sat-25-10-2025	Partly Cloudy. 	Possible Shower. 	13.5 (12.8)	22.6 (22.3)	0	48	NNE 20 NNE 25 Gusts55
Sun-26-10-2025	Shower. 	Thunder. 	13.6 (13.1)	23 (22.4)	5.3	62	N 15 NNW 15 Gusts50

Yesterday's Satellite Image: Thu-16-Oct-2025

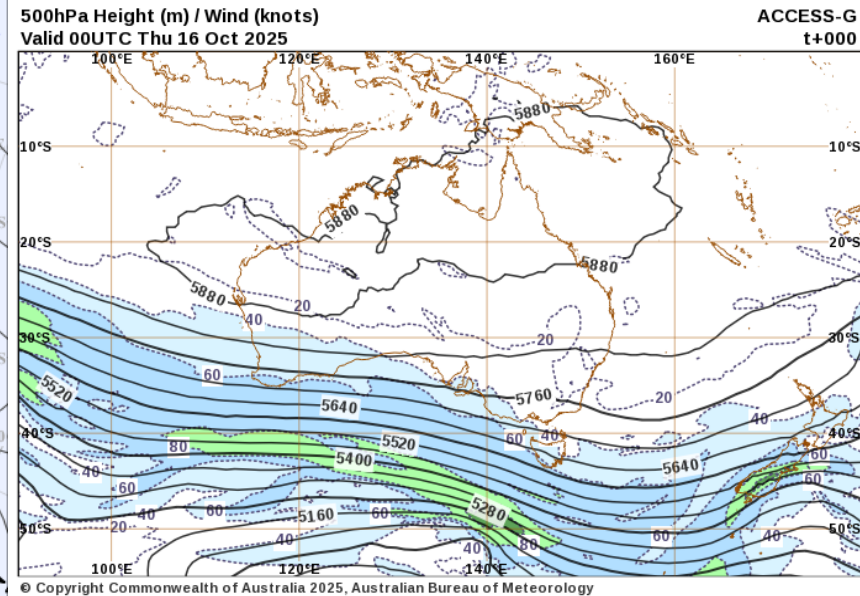
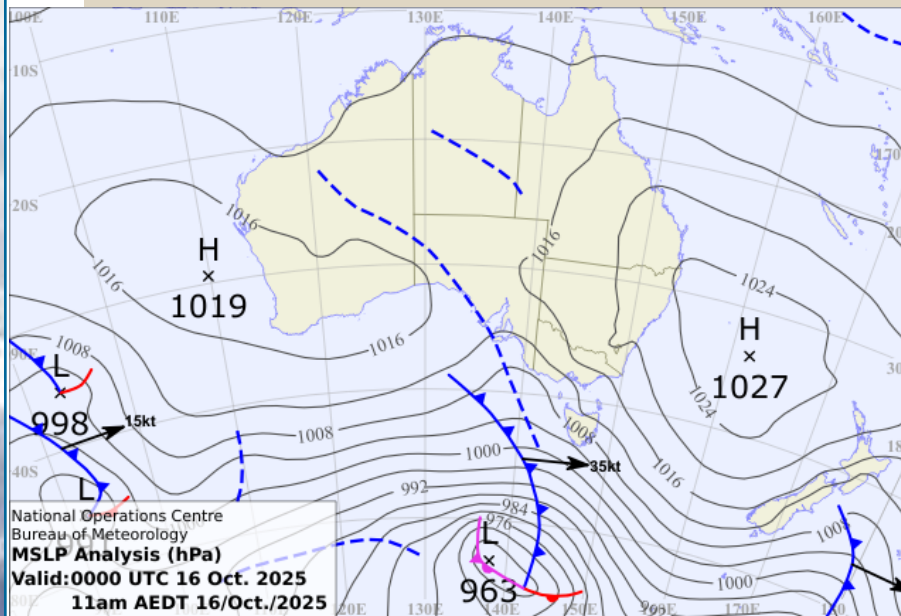


http://www.bom.gov.au/australia/charts/synoptic_col.shtml

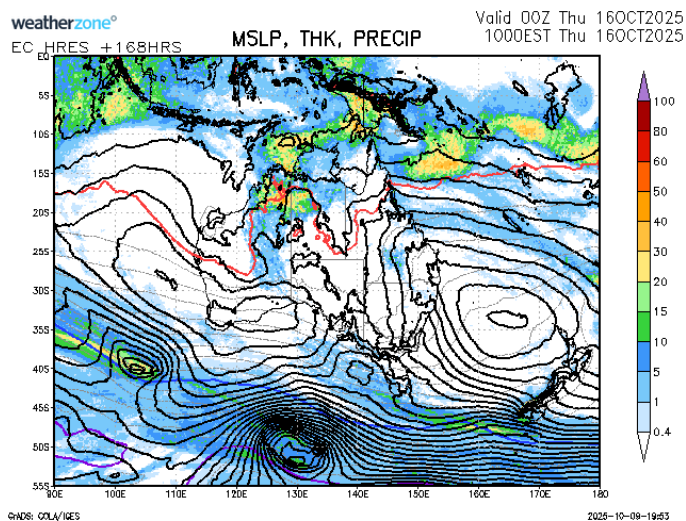
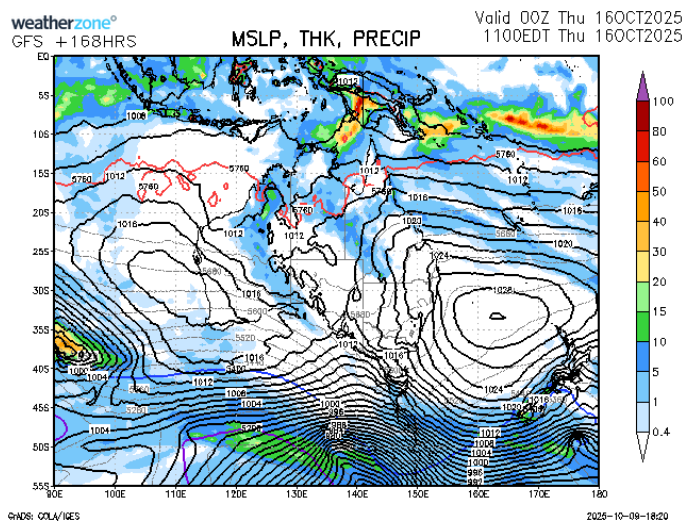
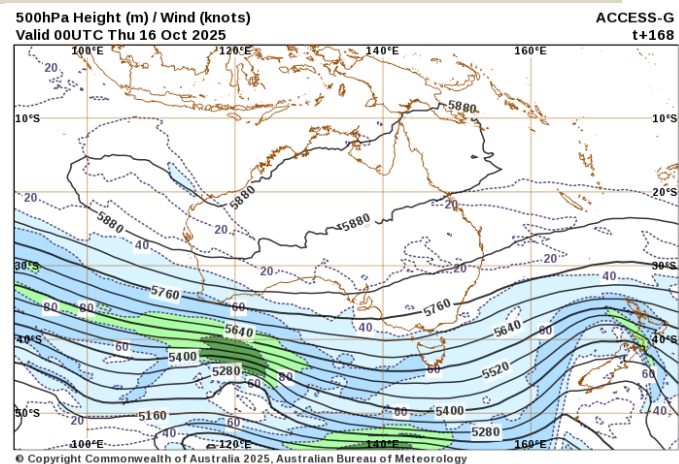
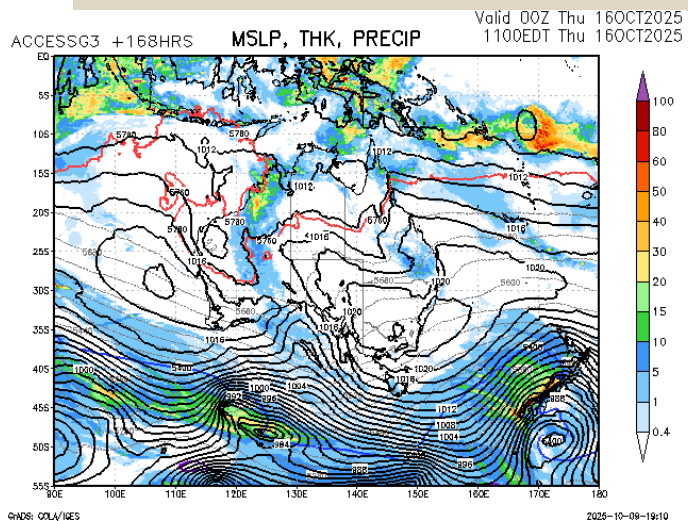
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<https://meteologix.com/au/model-charts/standard/australia/geopotential-height-500hpa.html>

Yesterday's Analyses: Thu-16-Oct-2025



Last Week's NWP Models: Thu-16-Oct-2025



Next Week's BoM MSLP & Thickness Charts

Link:

<http://www.weather-climate.com/ChartsSequence1.html>

Next Week's BoM MSLP & Precip Charts

Link:

<http://www.weather-climate.com/ChartsSequence2.html>

Next Week's BoM 850 hPa Temp Charts

Link:

<http://www.weather-climate.com/ChartsSequence3.html>

Next Week's BoM Jet Stream Charts

Link:

<http://www.weather-climate.com/ChartsSequence4.html>

Climate Indices (1)

Current sea surface temperature anomaly distribution:

http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/enso_update/qsstanim.gif

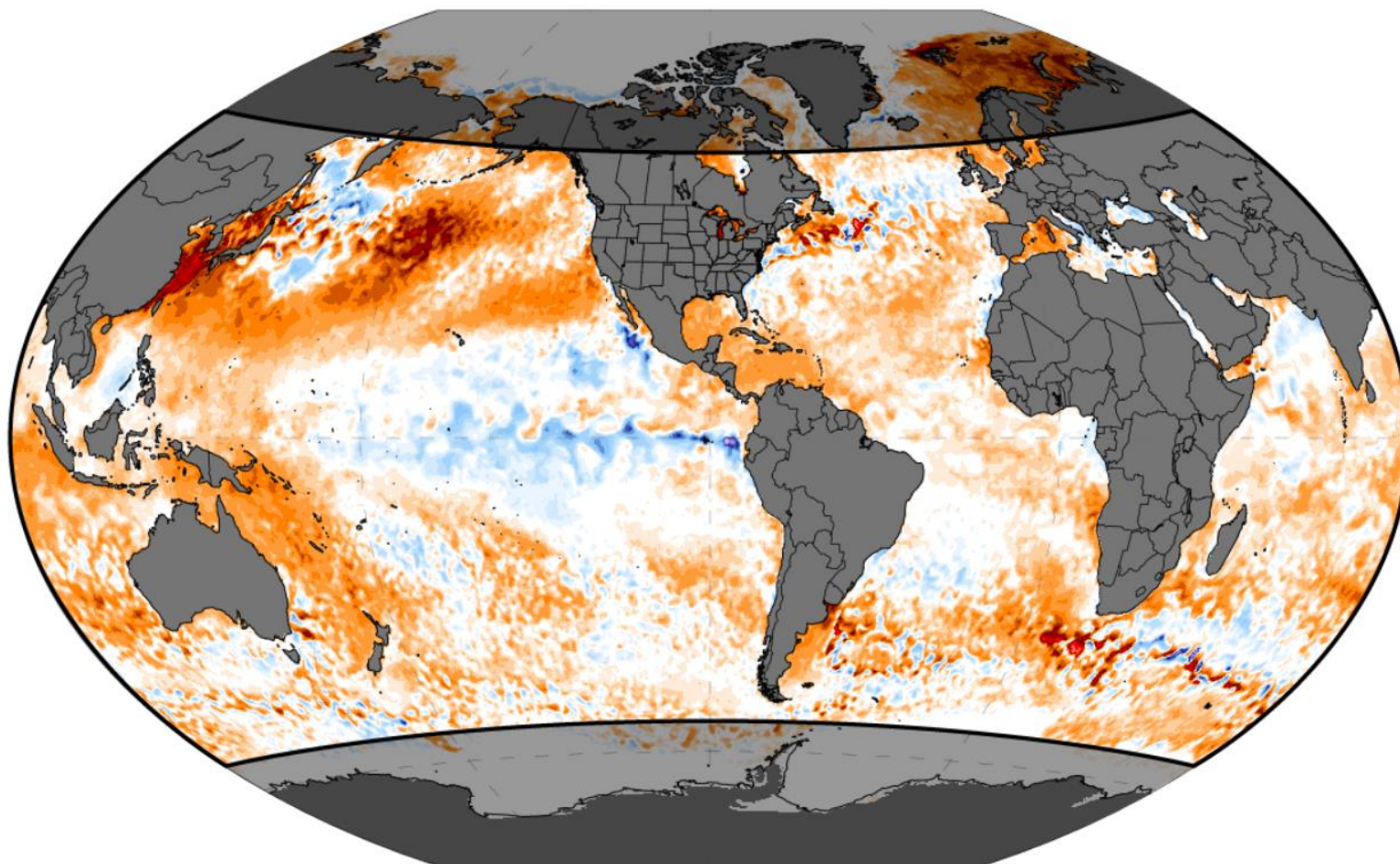
https://climatereanalyzer.org/clim/sst_daily/?dm_id=world2

NOAA OISST V2.1 SST Anomaly (°C) [1991-2020 baseline]

Tue, Oct 14, 2025 | preliminary

ClimateReanalyzer.org

Climate Change Institute | University of Maine



Climate Indices (2)

Current sea surface temperature distribution:

http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/enso_update/qsstanim.gif

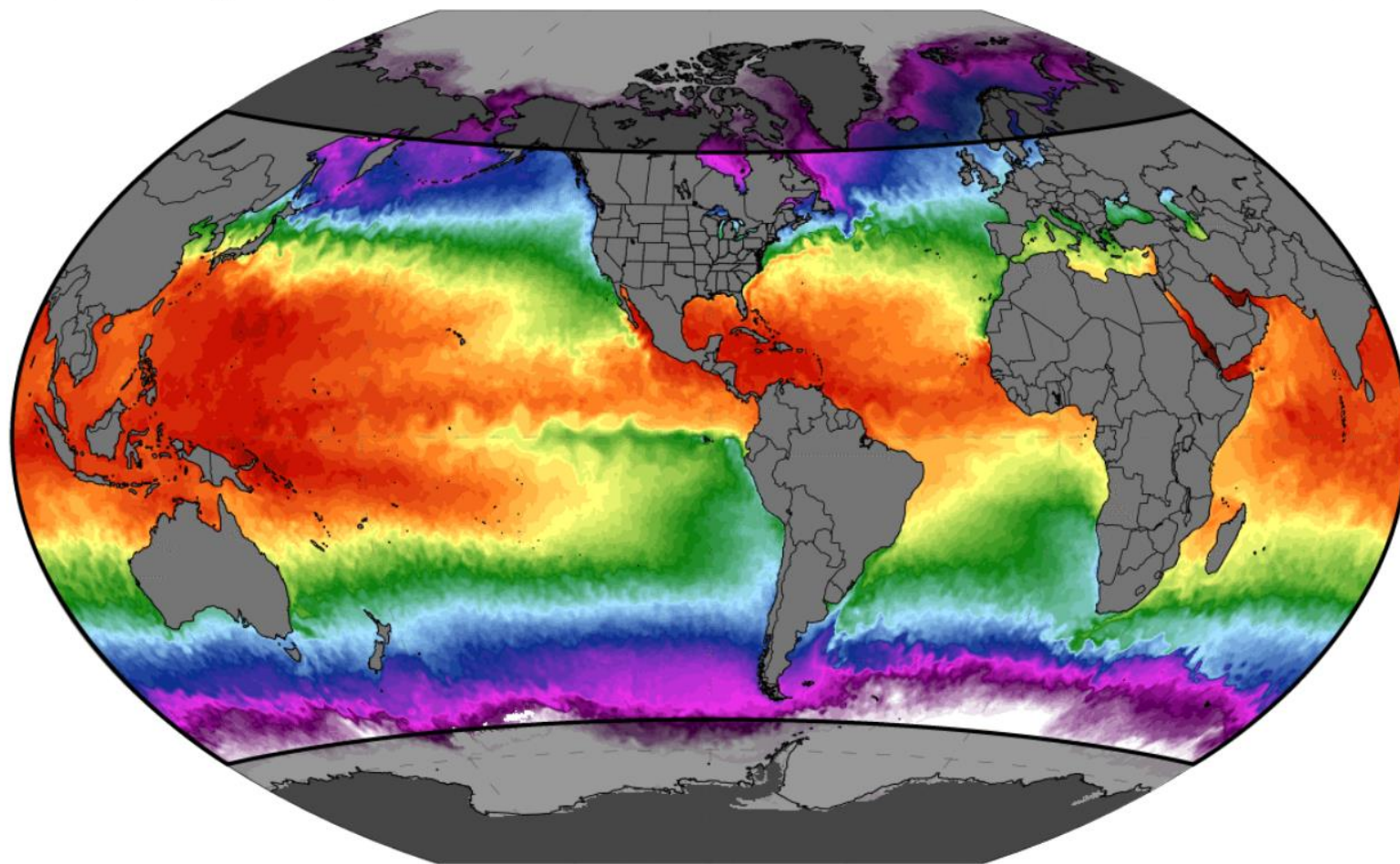
https://climatoreanalyzer.org/clim/sst_daily/?dm_id=world2

NOAA OISST V2.1 Sea Surface Temperature (°C)

Tue, Oct 14, 2025 | preliminary

ClimateReanalyzer.org

Climate Change Institute | University of Maine



Climate Indices (3)

<https://psl.noaa.gov/enso/mei/> <https://www.longpaddock.qld.gov.au/soi/> <http://www.bom.gov.au/climate/enso/indices.shtml?bookmark=iod>

<http://www.bom.gov.au/climate/mjo/>

<http://www.bom.gov.au/climate/enso/#tabs=Pacific-Ocean&pacific=SOI>

<http://www.bom.gov.au/climate/enso/indices.shtml?bookmark=iod>

Multivariate Enso Index = -0.30

Indian Ocean Dipole= -1.39 deg C

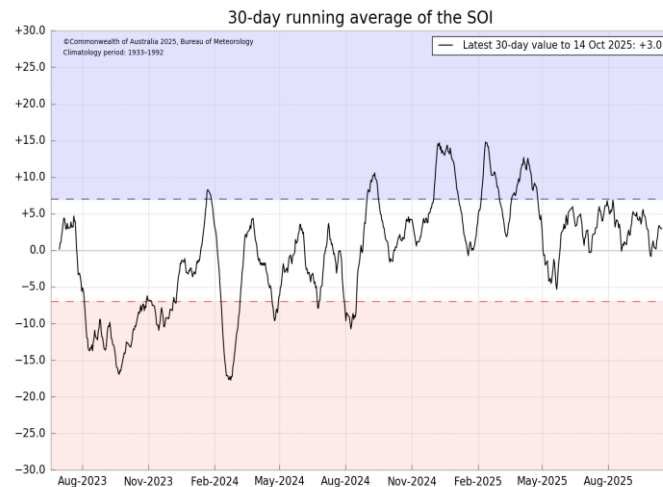
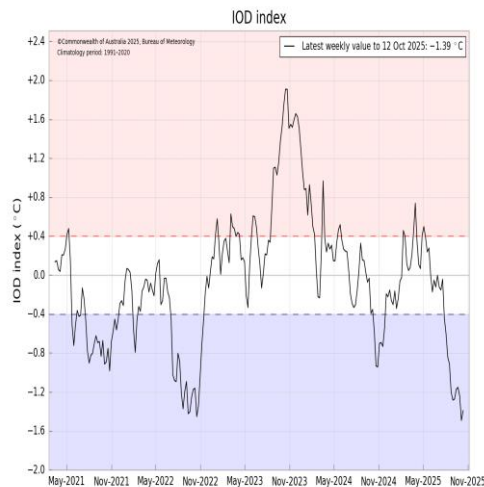
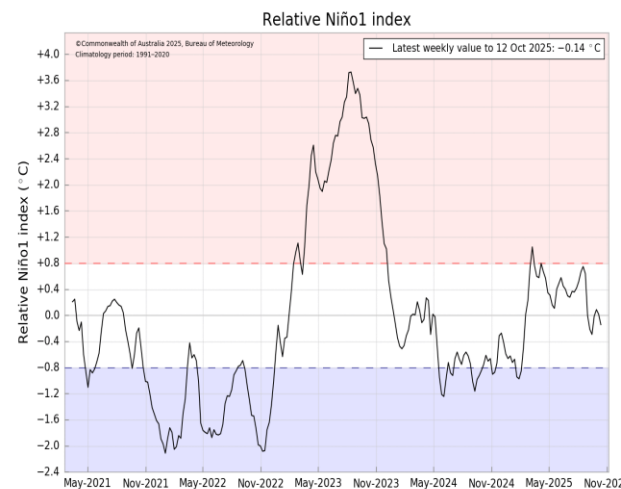
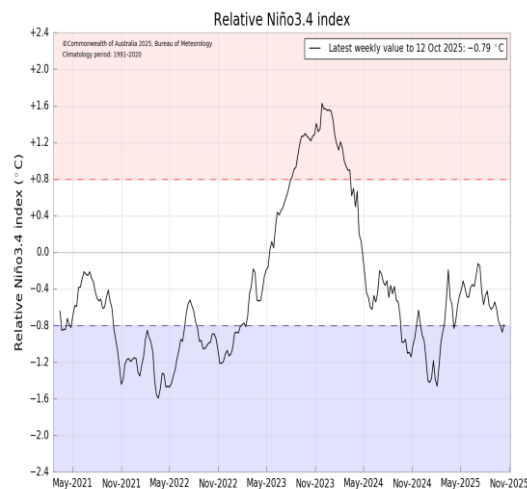
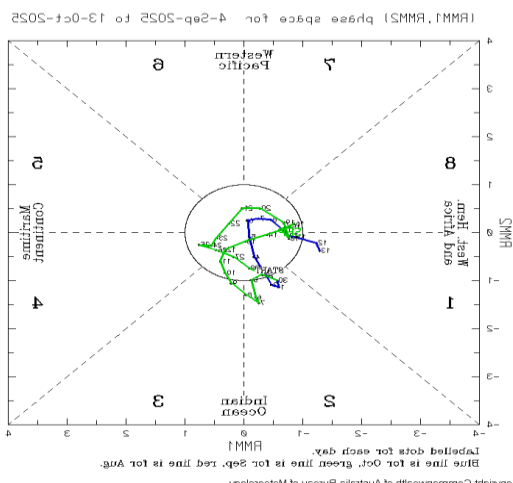
S O I +3.0 (30) +3.85 (90)

n/a

MADDEN JULIAN OSCILLATION: 1 Africa

SST IN CENTRAL PACIFIC: -0.79 deg C

SST CLOSE TO SOUTH AMERICA: -0.14 deg C



Seasonal Outlook for Victoria

The average Indian Ocean Dipole Mode Index for the past week is -1.39 (-2.67 standard deviations), the average Southern Oscillation Index (SOI) for the past 90 days is 3.85, the average SOI for the past 30 days is 3.00, and the latest recorded bimonthly Multivariate ENSO Index (MEI) is -0.3. The expected MEI, adjusted by the Indian Ocean Dipole Mode Index and also by recent values of the SOI, for SEP/OCT is -1.49. Such a value of MEI indicates a sea surface temperature distribution that corresponds to a La Niña.

This suggests:

RAINFALL: There is an enhanced chance that total NOV/DEC/JAN rainfall will be above normal in the NORTHERN COUNTRY, NORTHEAST, EAST GIPPSLAND and WEST GIPPSLAND Districts, there is a very slightly enhanced chance that rainfall will be above normal in the MALLEE, NORTH CENTRAL and CENTRAL Districts, and there is little indication as to whether rainfall will be below, near or above normal in other Victorian Districts.

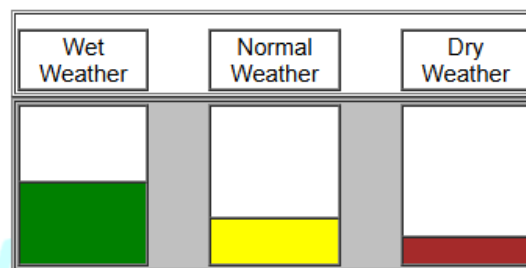
OVERNIGHT TEMPERATURES: There is a very slightly enhanced chance that average NOV/DEC/JAN overnight temperatures will be above normal in the WEST GIPPSLAND District, there is a very slightly enhanced chance that overnight temperatures will be below normal in the MALLEE and WIMMERA Districts, and there is little indication as to whether overnight temperatures will be below, near or above normal in other Victorian Districts.

DAYTIME TEMPERATURES: There is an enhanced chance that average NOV/DEC/JAN daytime temperatures will be below normal in the WIMMERA, NORTHERN COUNTRY, NORTHEAST, EAST GIPPSLAND, and WEST GIPPSLAND Districts, there is a slightly enhanced chance that average NOV/DEC/JAN daytime temperatures will be below normal in the MALLEE and NORTH CENTRAL Districts, there is a very slightly enhanced chance that average NOV/DEC/JAN daytime temperatures will be below normal in the WESTERN DISTRICT, and there is little indication as to whether daytime temperatures will be below, near or above normal in the other Victorian District, the CENTRAL District.

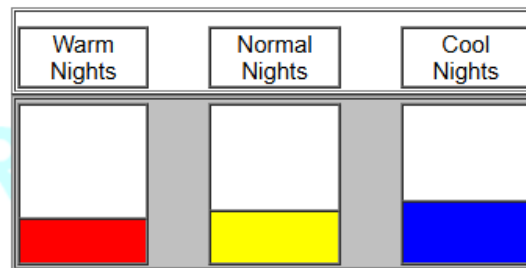
Monthly Outlook for Melbourne

In Melbourne, at this time of the year, a combination of the MEI, the DMI, and the MJO Phase, such as what we have operating now, suggests, over the following 30 days:

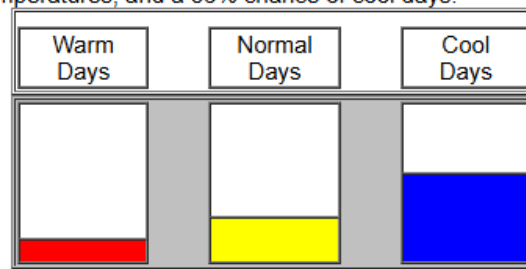
RAINFALL: There is a 52% chance of it being wet, a 30% chance of normal rainfall, and a 18% chance of it being dry.



OVERNIGHT TEMPERATURES: There is a 28% chance of warm nights, a 33% chance of normal overnight temperatures, and a 39% chance of cool nights.



DAYTIME TEMPERATURES: There is a 15% chance of warm days, a 29% chance of normal daytime temperatures, and a 56% chance of cool days.

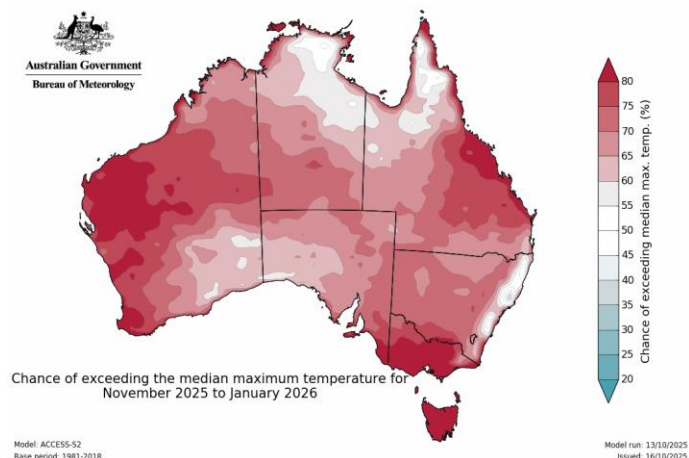
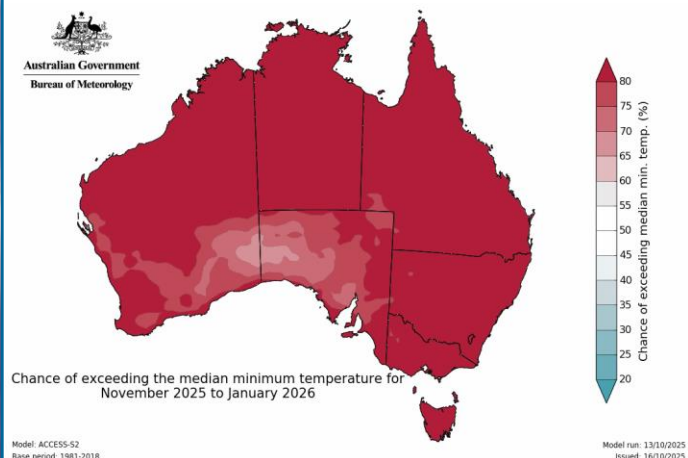
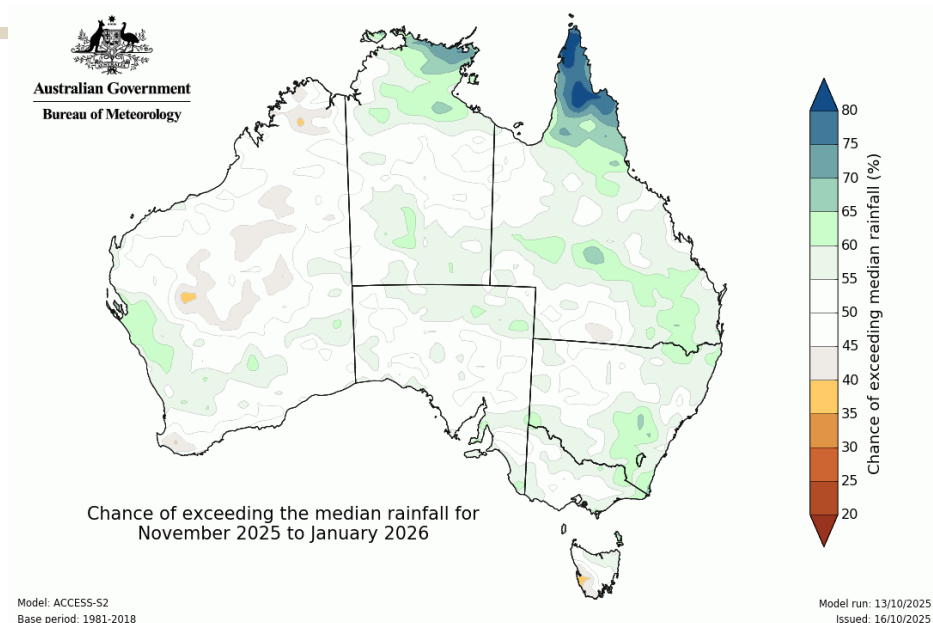


This Week's Bureau Outlook Map

<http://www.bom.gov.au/jsp/sco/archive/index.jsp?map=rain>

<http://www.bom.gov.au/jsp/sco/archive/index.jsp?map=tmax&outlook=median&period=season1&year=2024&month=05&day=16&y=2024&m=03&d=14>

<http://www.bom.gov.au/jsp/sco/archive/index.jsp?map=tmin&outlook=median&period=season1&year=2024&month=05&day=16&y=2024&m=03&d=14>



This Week's NWP Models . . .

NWP Models: Fri-17-Oct-2025

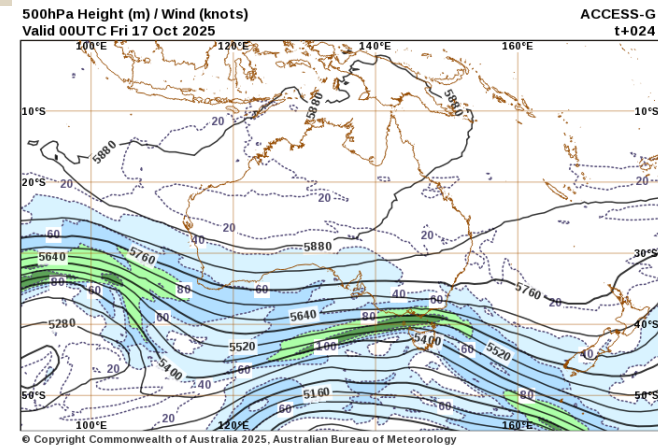
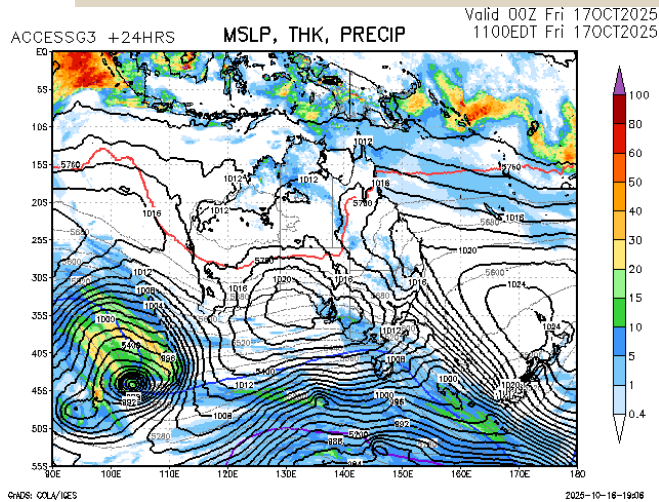
BoM ACCESS MSL & 200 hPa, GFS, & EC

<https://www.weatherzone.com.au/models/charts>

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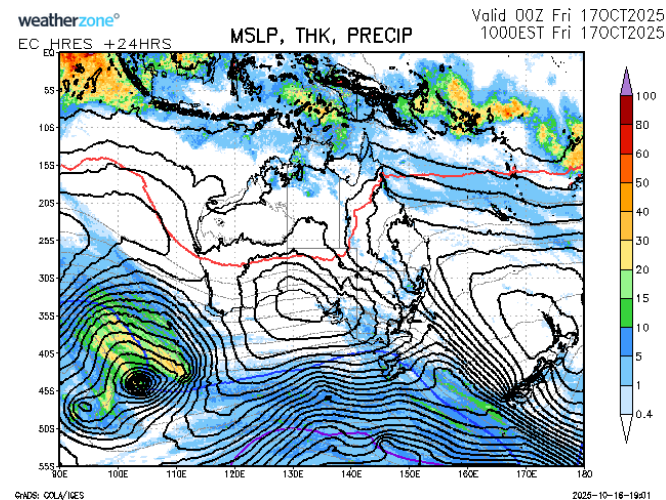
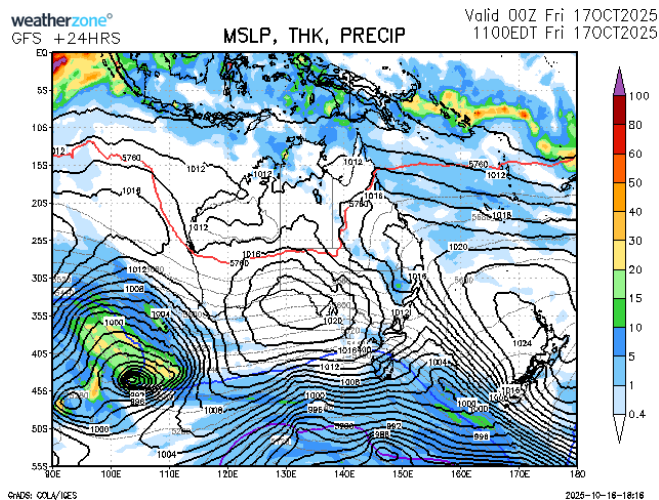


Chart Discussion: Fri-17-Oct-2025 (Harvey Stern)

NWP Models: Sat-18-Oct-2025

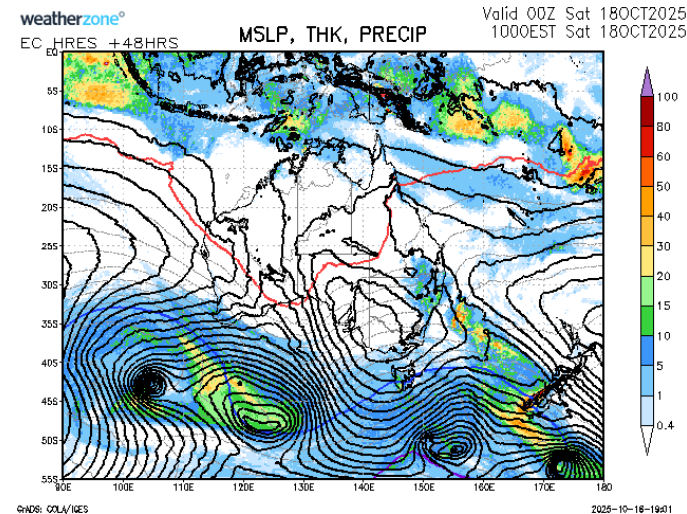
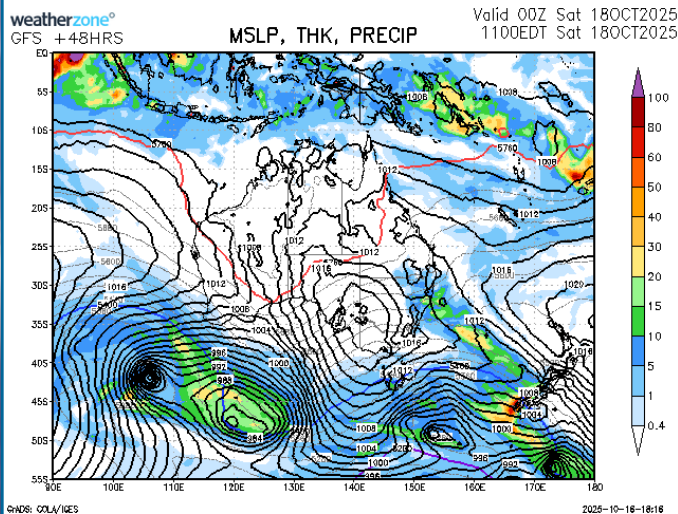
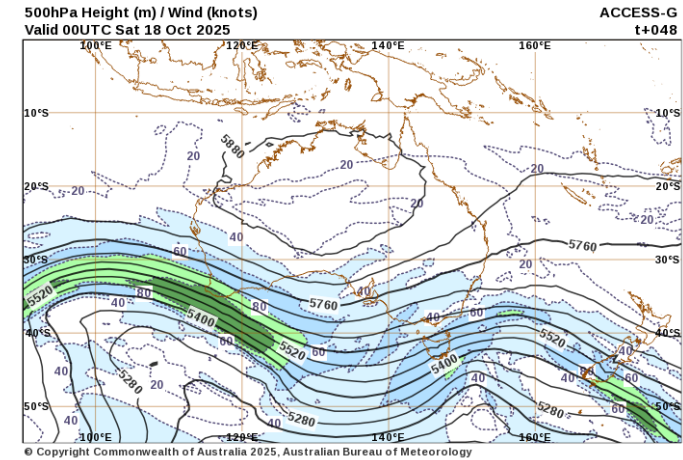
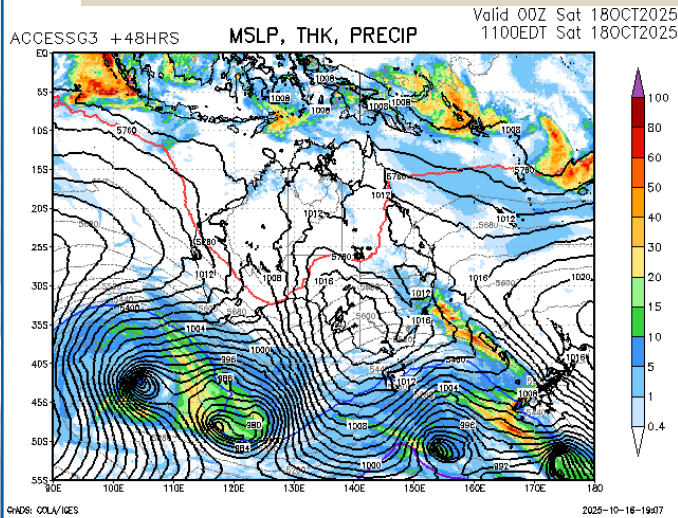


Chart Discussion: Fri-17-Oct-2025 (Harvey Stern)

NWP Models: Sun-19-Oct-2025

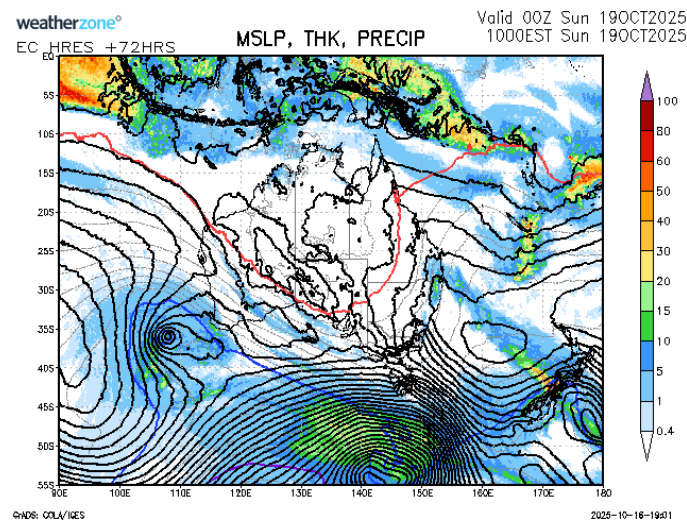
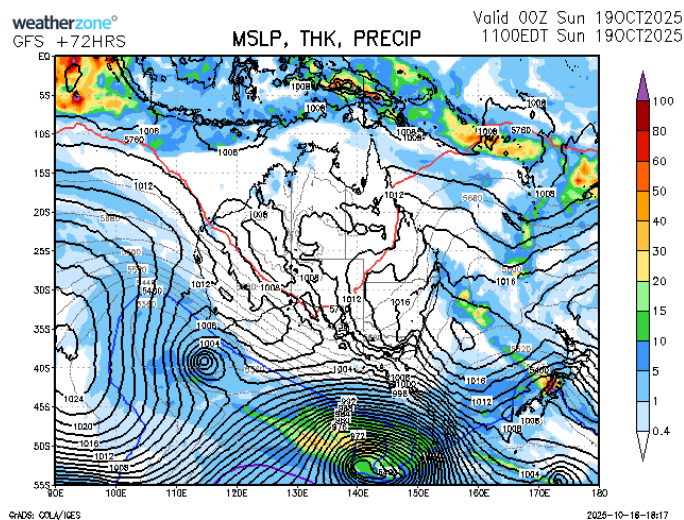
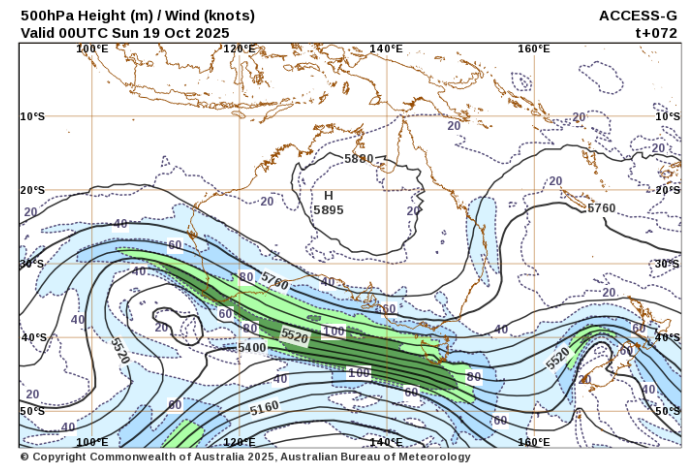
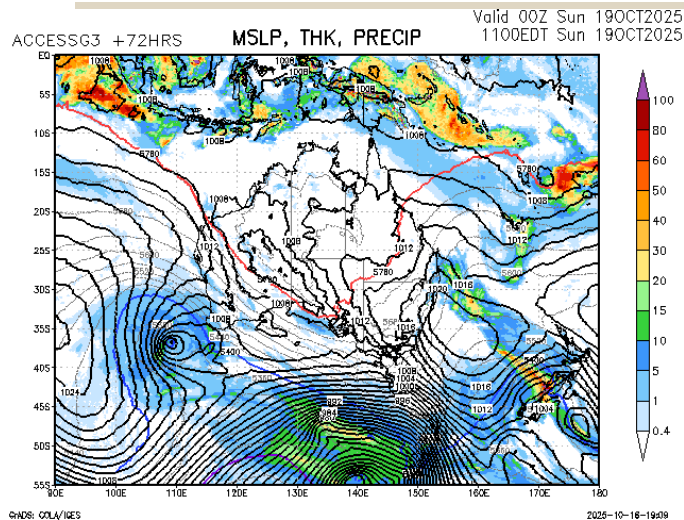


Chart Discussion: Fri-17-Oct-2025 (Harvey Stern)

NWP Models: Mon-20-Oct-2025

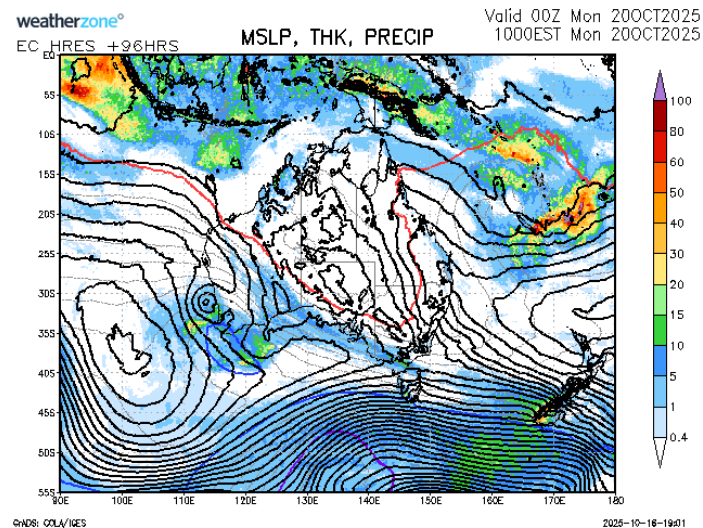
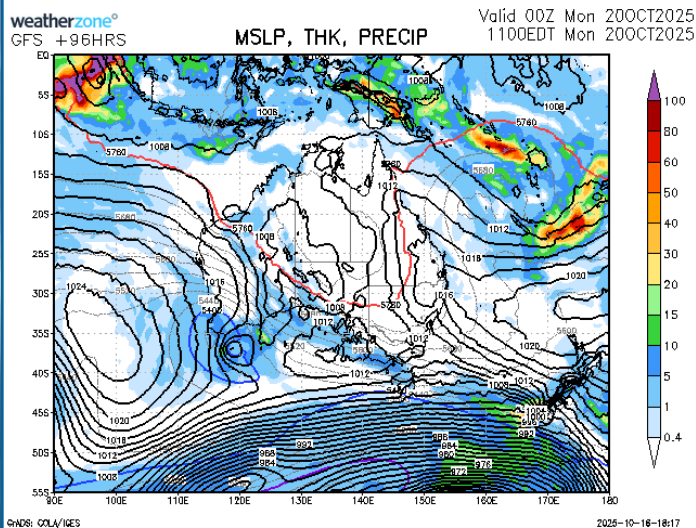
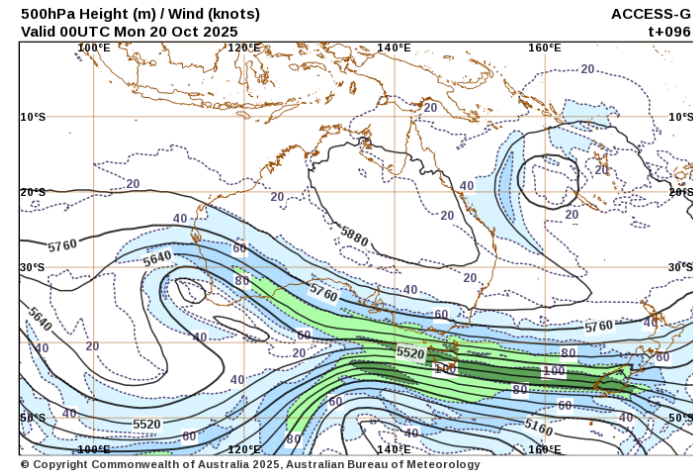
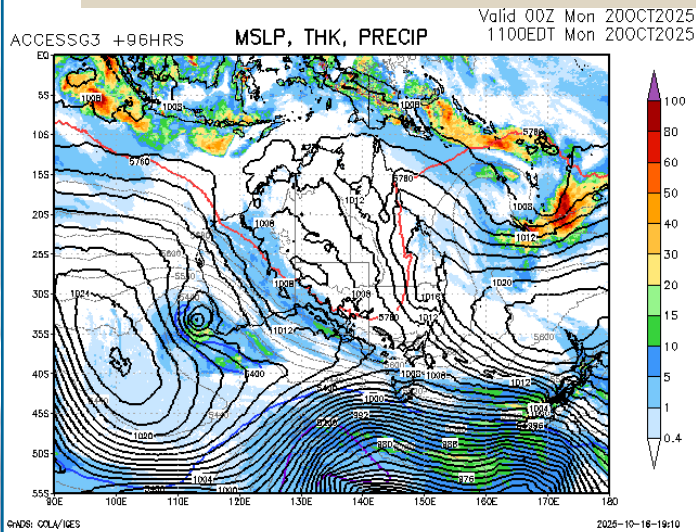


Chart Discussion: Fri-17-Oct-2025 (Harvey Stern)

NWP Models: Tue-21-Oct-2025

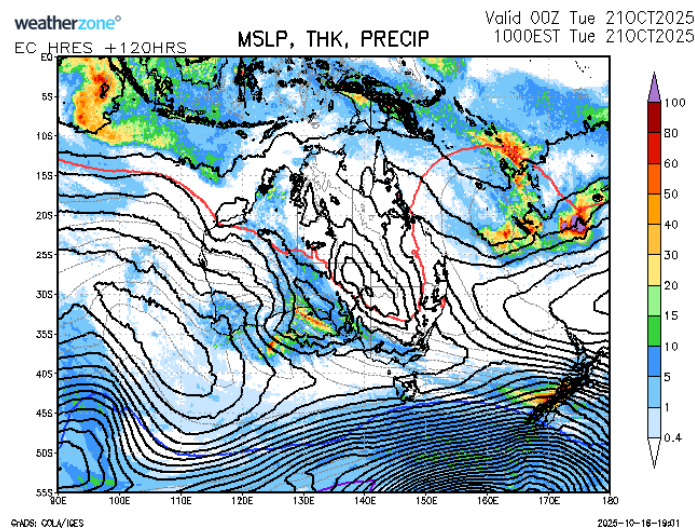
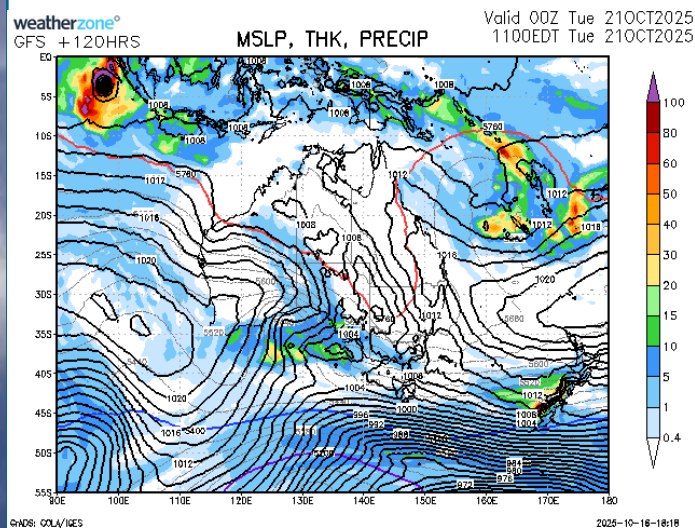
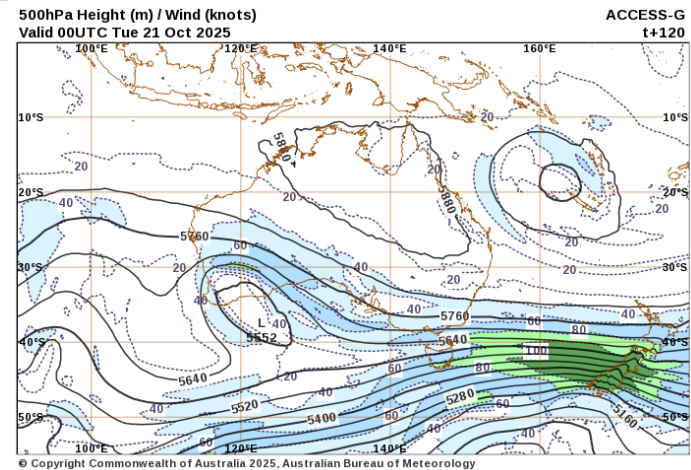
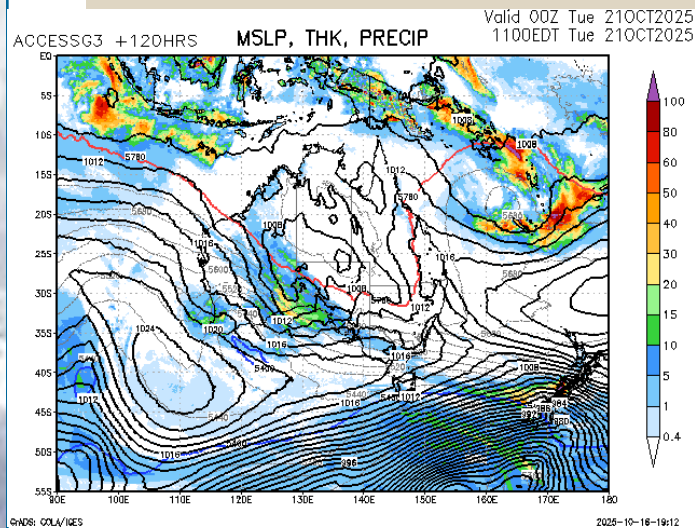
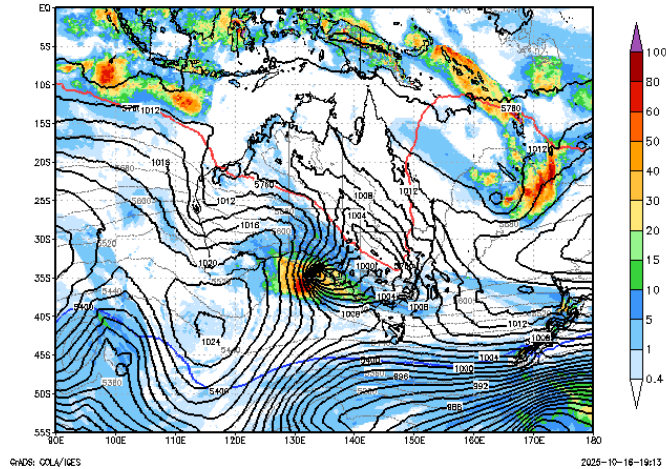


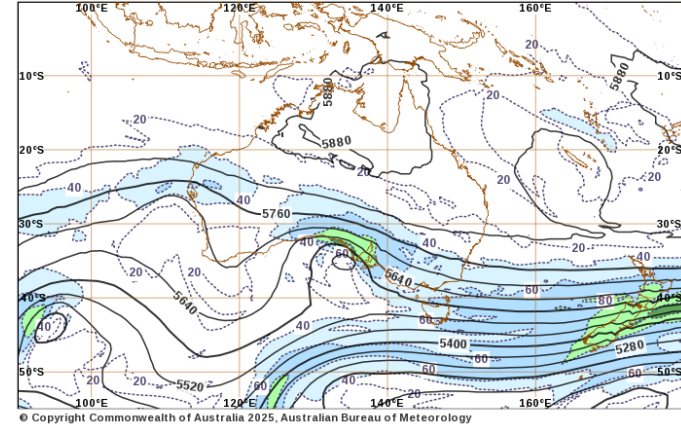
Chart Discussion: Fri-17-Oct-2025 (Harvey Stern)

NWP Models: Wed-22-Oct-2025

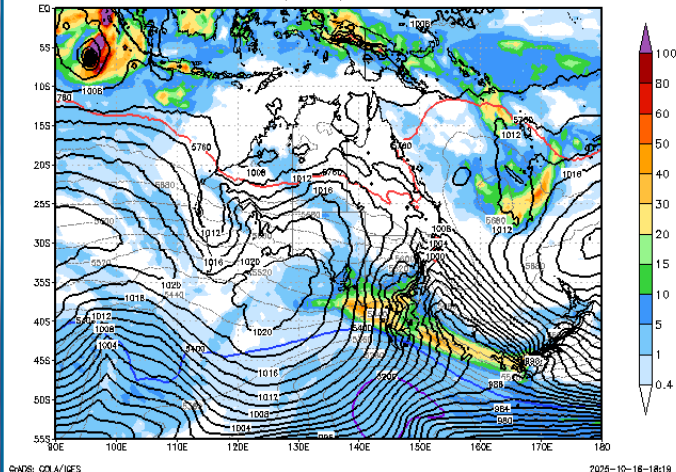
ACCESSG3 +144HRS MSLP, THK, PRECIP Valid 00Z Wed 22OCT2025
1100EDT Wed 22OCT2025



500hPa Height (m) / Wind (knots) ACCESS-G
Valid 00UTC Wed 22 Oct 2025 t+144



weatherzone[®] GFS +144HRS MSLP, THK, PRECIP Valid 00Z Wed 22OCT2025
1100EDT Wed 22OCT2025



weatherzone[®] EC_HRES +144HRS MSLP, THK, PRECIP Valid 00Z Wed 22OCT2025
1000EST Wed 22OCT2025

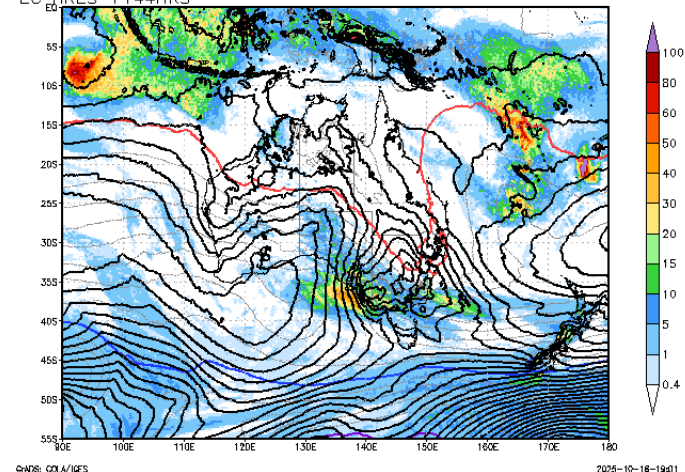


Chart Discussion: Fri-17-Oct-2025 (Harvey Stern)

NWP Models: Thu-23-Oct-2025

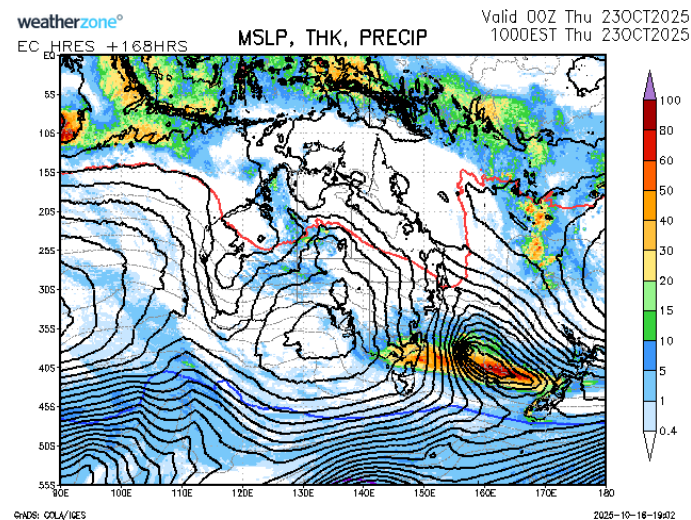
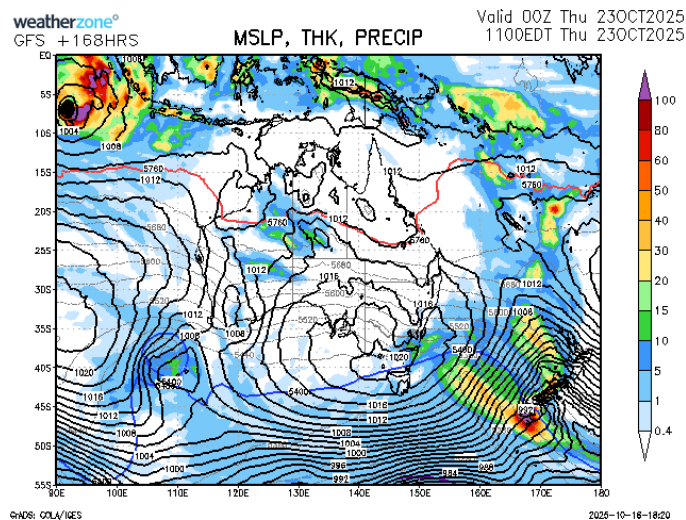
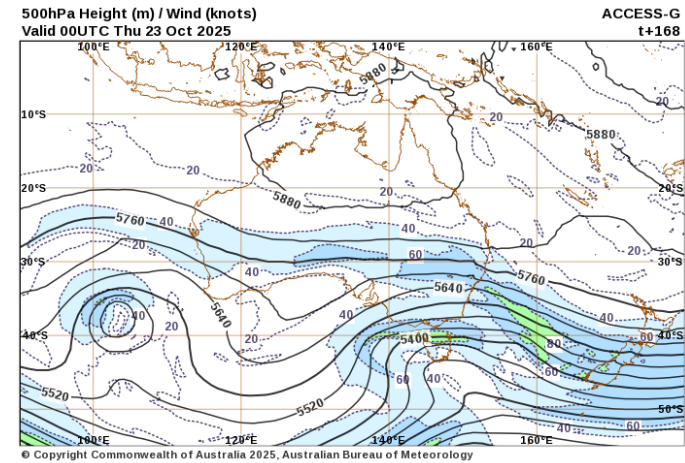
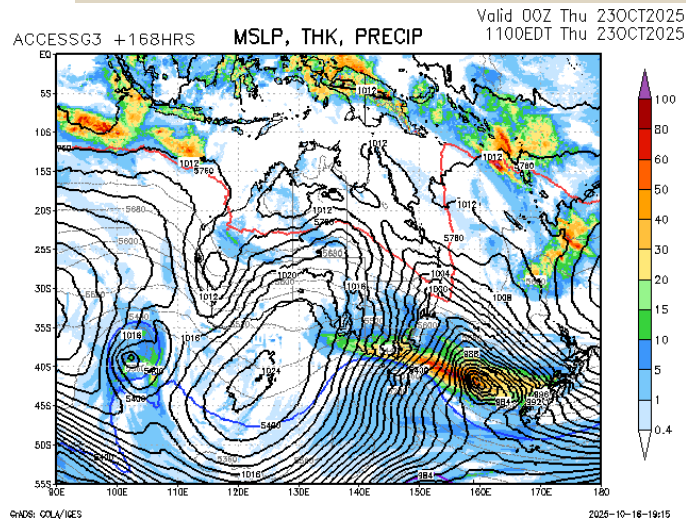


Chart Discussion: Fri-17-Oct-2025 (Harvey Stern)

NWP Models: Fri-24-Oct-2025

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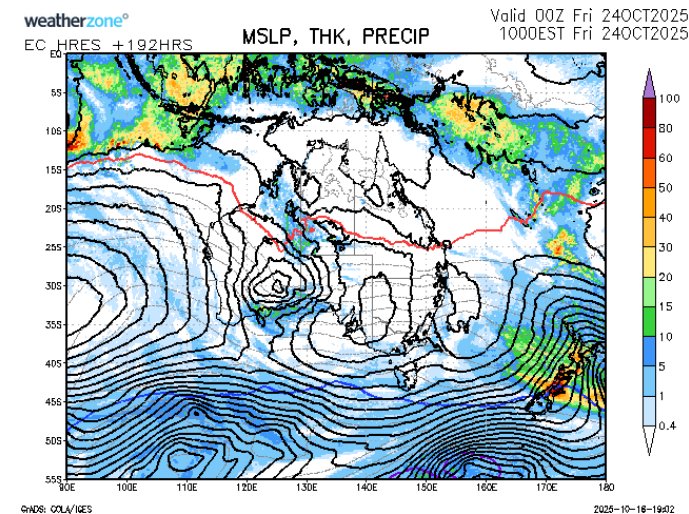
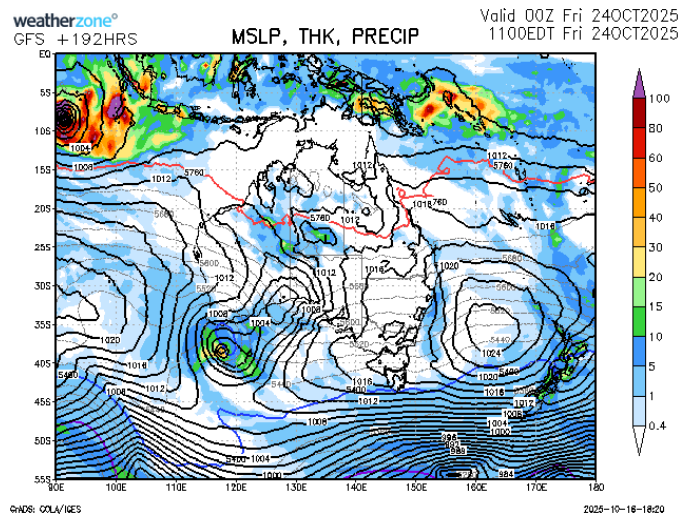
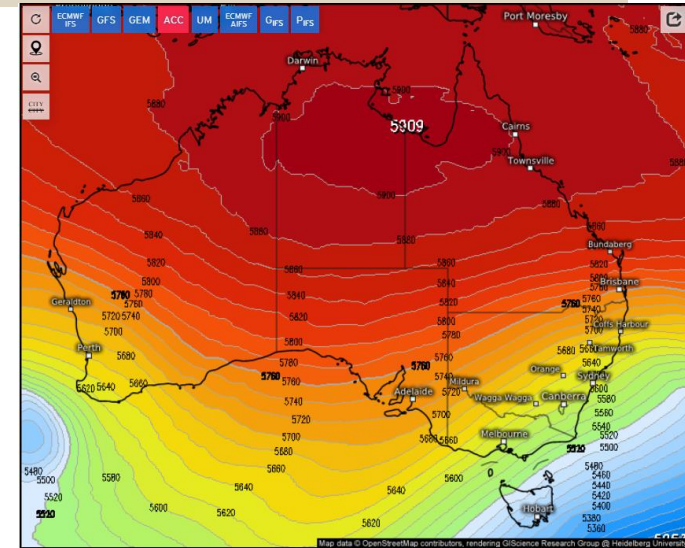
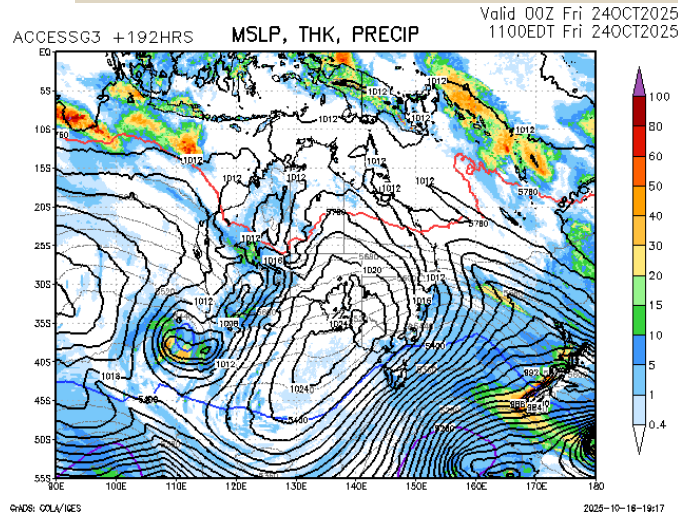
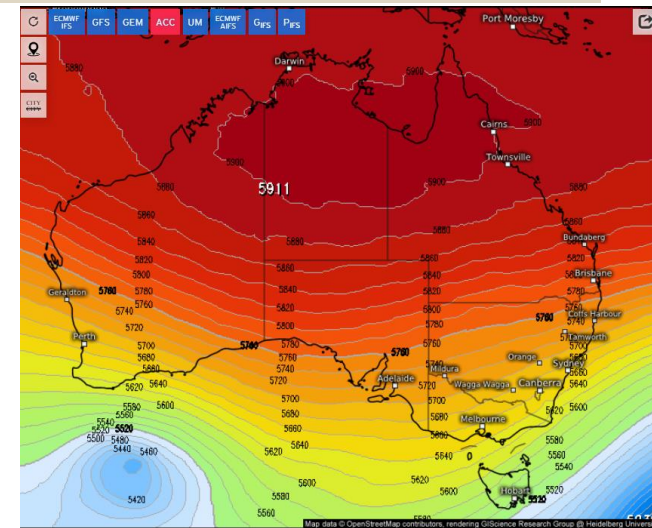
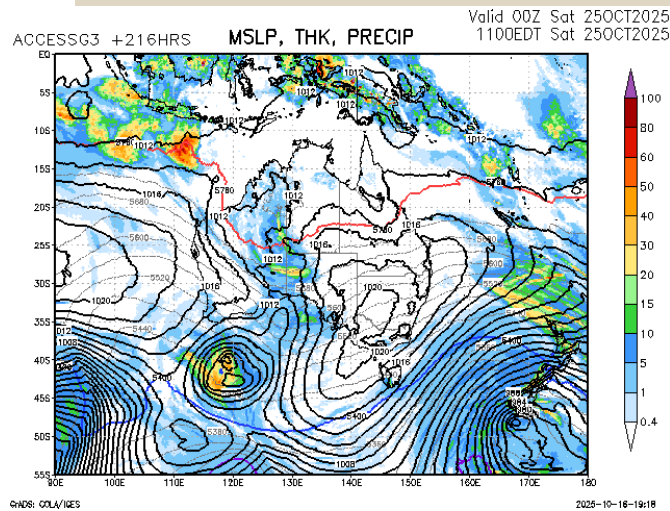


Chart Discussion: Fri-17-Oct-2025 (Harvey Stern)

NWP Models: Sat-25-Oct-2025



Geopotential height, 500hPa (m) [i](#)

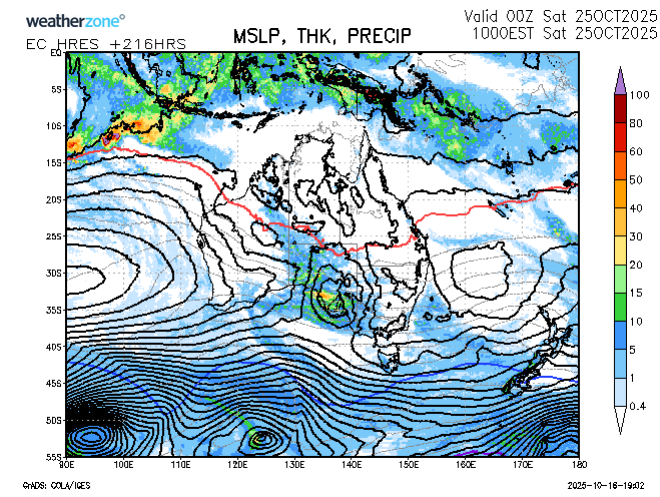
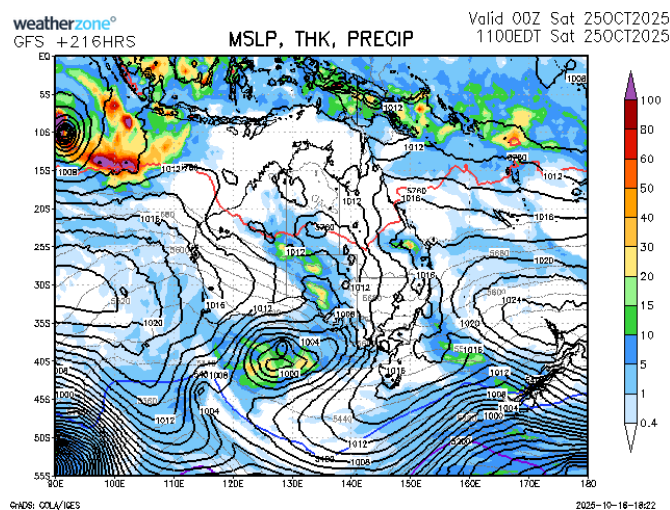
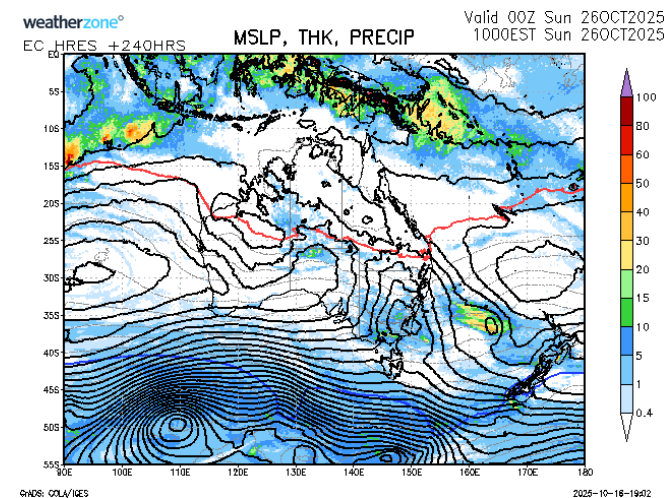
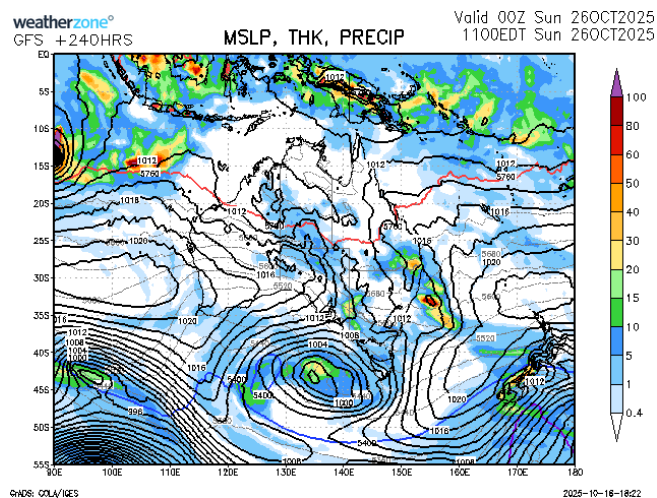
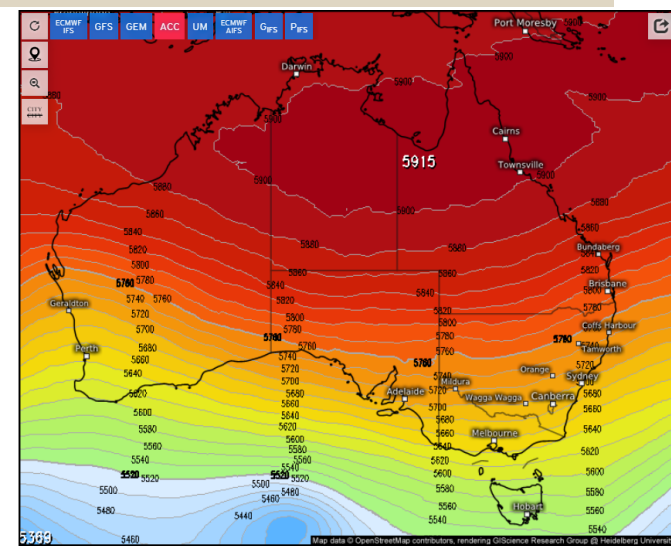
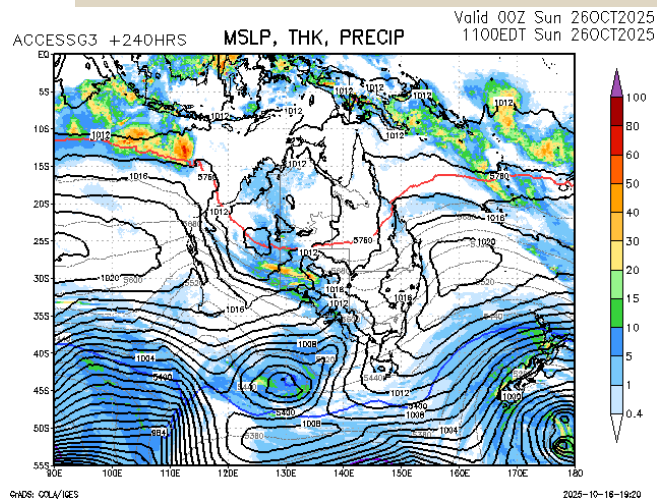


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NWP Models: Sun-26-Oct-2025



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Temperatures for the Melbourne observation site (at Olympic Park) are in brackets.

Day & Date	Morning	Afternoon	Min Temp (deg C)	Max Temp (deg C)	Precip Amount (mm)	Precip Prob (%)	9am Wind/ 3pm Wind Melb Apt (km/hr)
Fri-17-10-2025	Cloudy. 	Cloudy. 	13.2 (12.9)	19.7 (18.5)	0	39	WSW 20 SSW 23 Gusts45
Sat-18-10-2025	Partly Cloudy. 	Sunny. 	10.4 (10.1)	20.6 (19.4)	0	8	WSW 8 S 10 Gusts30
Sun-19-10-2025	Windy. 	Windy. 	15.4 (14.9)	28.3 (27.9)	0	25	N 40 N 35 Gusts70
Mon-20-10-2025	Shower. 	Cloudy. 	17.6 (17)	23.9 (22.6)	3.2	73	SW 8 S 10 Gusts30
Tue-21-10-2025	Partly Cloudy. 	Thunder. 	14.4 (13.8)	21.1 (20.5)	0.4	59	N 15 NNE 20 Gusts50
Wed-22-10-2025	Shower. 	Shower. 	11.5 (11.6)	17.9 (16.1)	2.1	65	WSW 25 SSW 25 Gusts60
Thu-23-10-2025	Cloudy. 	Partly Cloudy. 	11.2 (10.7)	17.9 (16.8)	0	39	S 8 S 15 Gusts30
Fri-24-10-2025	Fog. 	Partly Cloudy. 	10.3 (9.8)	21.8 (20.6)	0	25	NNE 8 NNE 15 Gusts35
Sat-25-10-2025	Partly Cloudy. 	Possible Shower. 	13.5 (12.8)	22.6 (22.3)	0	48	NNE 20 NNE 25 Gusts55
Sun-26-10-2025	Shower. 	Thunder. 	13.6 (13.1)	23 (22.4)	5.3	62	N 15 NNW 15 Gusts50

CHART DISCUSSION 17-Oct-2025

Thank You . . .