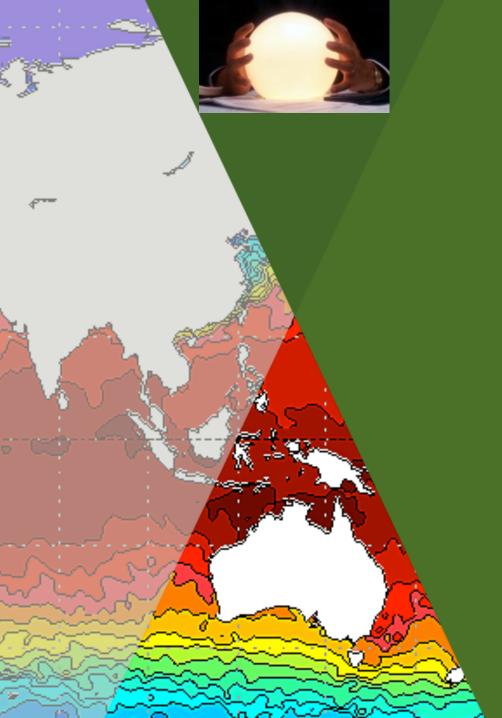
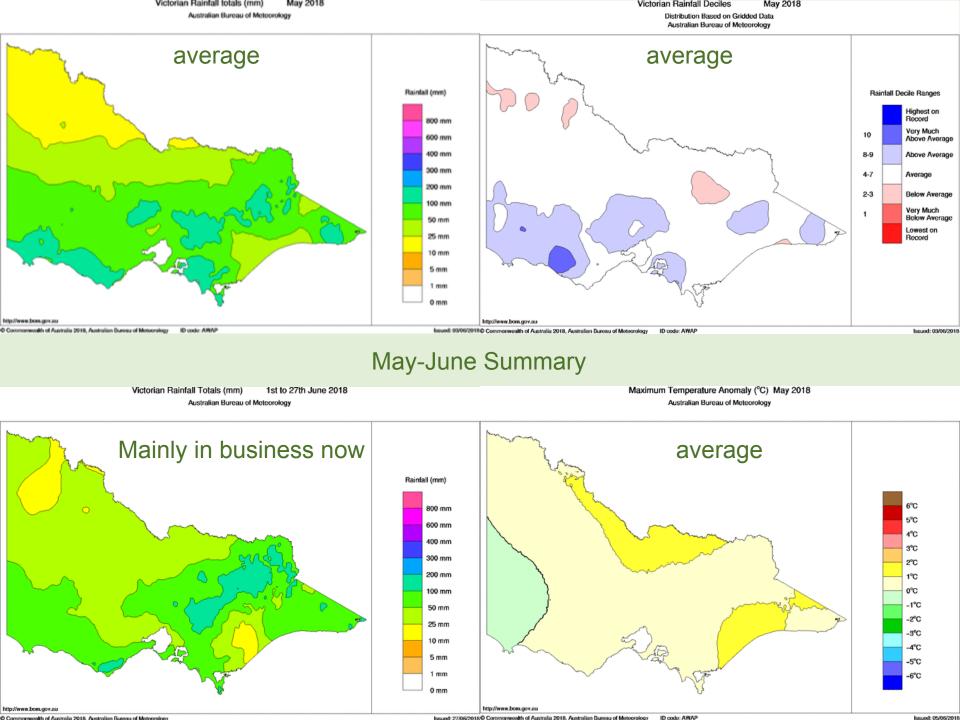


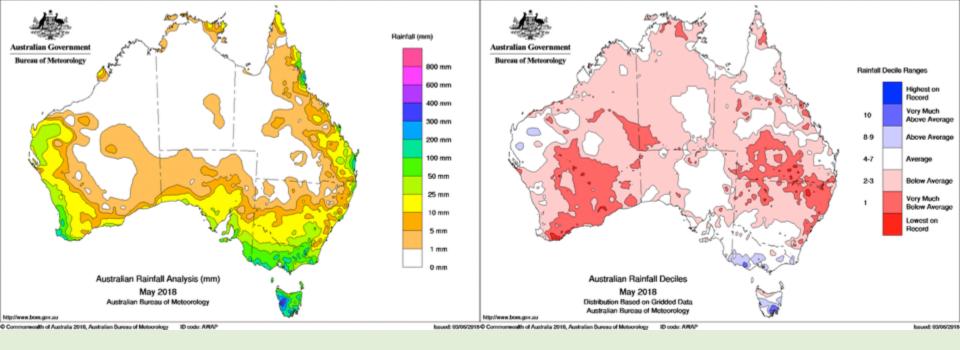
Dale Grey, Bendigo



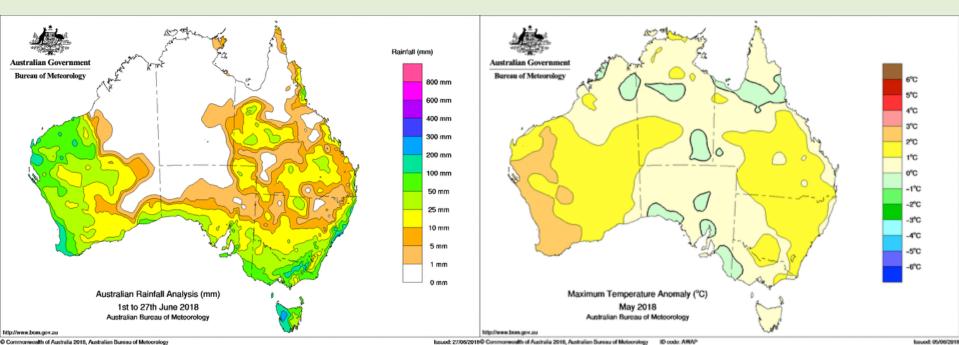


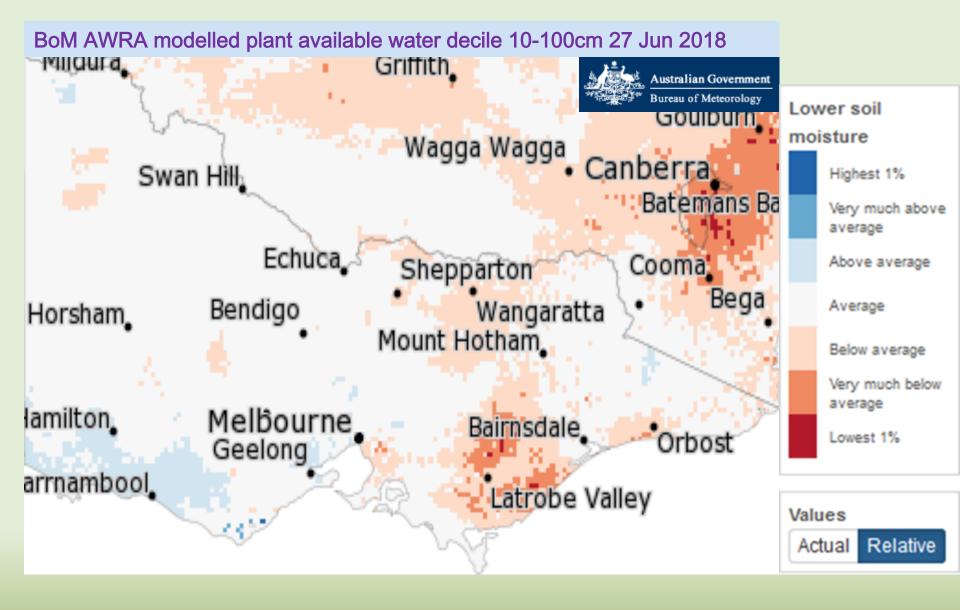






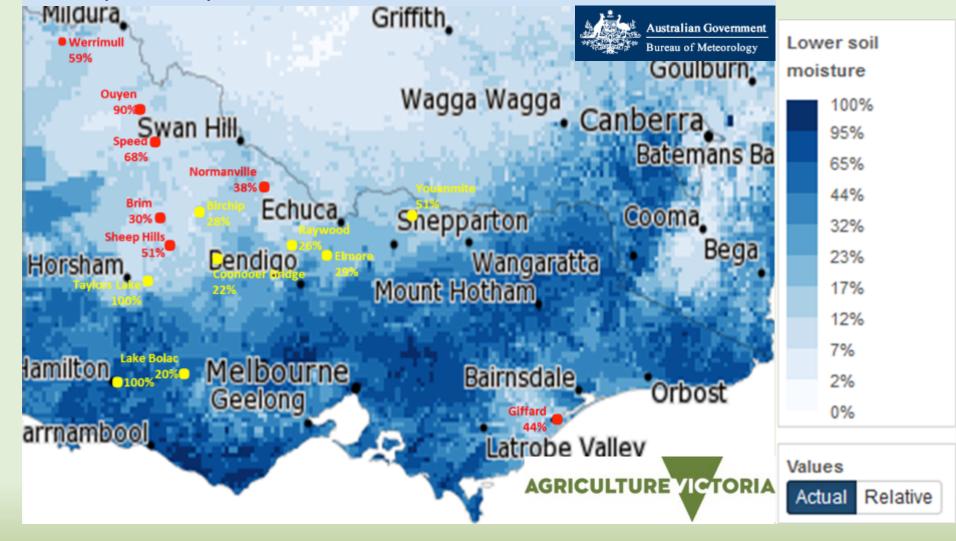
May-June Summary

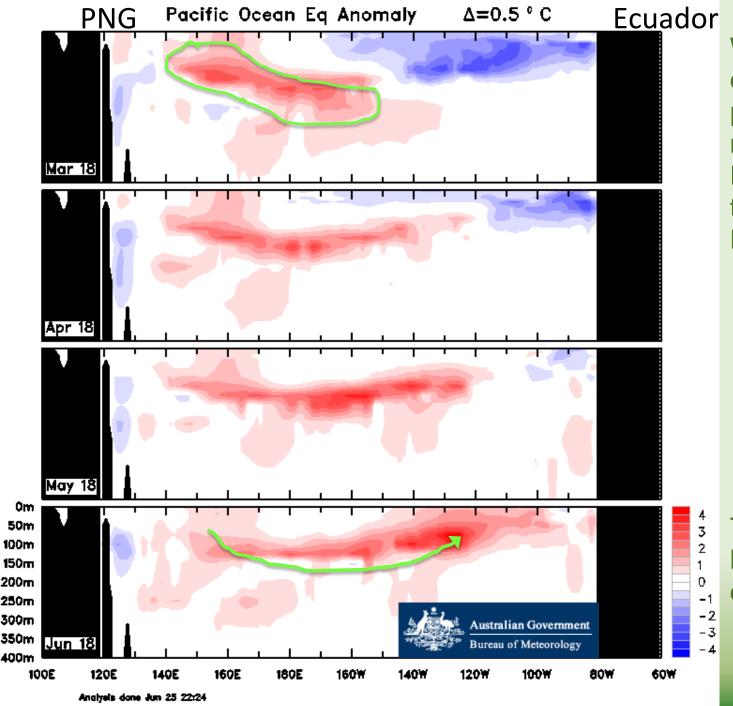




BoM AWRA modelled plant available water %10-100cm 27 Jun 2018

AV soil probes, % plant available water 30-100cm 27 Jun 2018



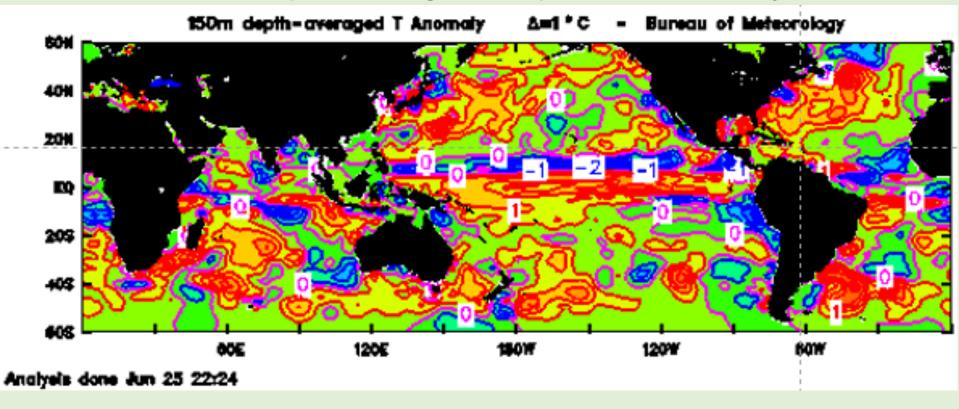


400m

Warmer water to depth in the west pushed under by reversed trades in Feb, sometimes this kicks of an El Niño.

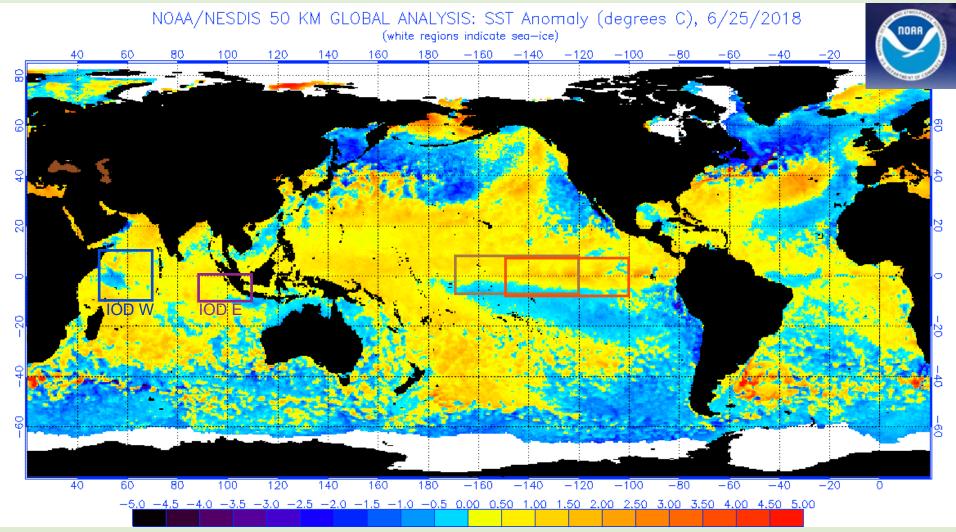
This is worth keeping an eye on!

150m depth averaged temperature anomaly



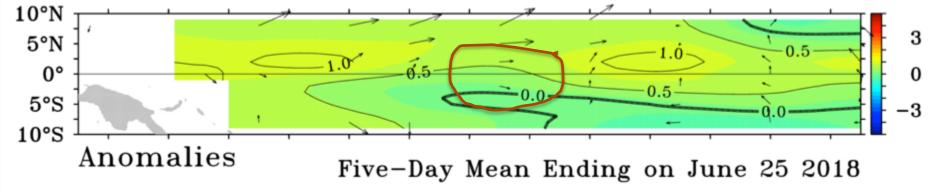
Warmer water to depth around Indonesia, could well up warmer at the surface.

25th June 2018



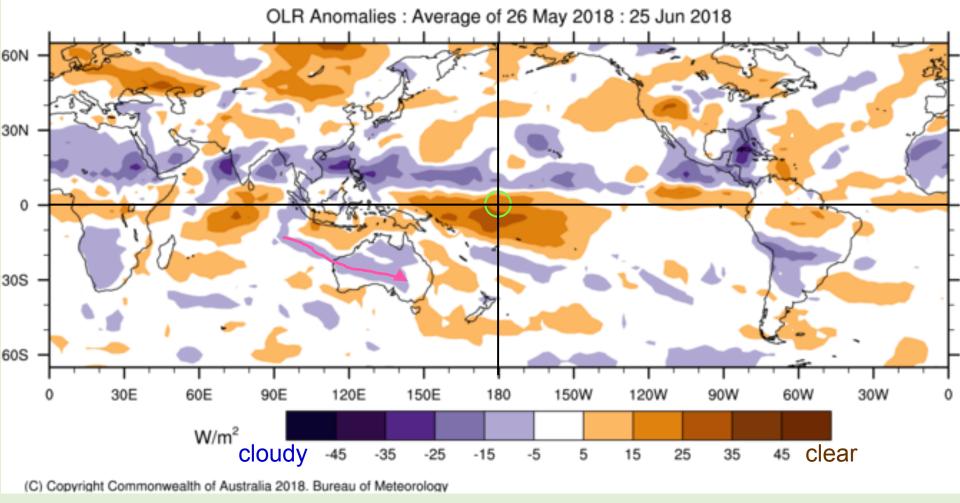
NINO3 = +0.53°C, NINO3.4 = +0.48°C, both neutral but slowly warming

Coral Sea hanging in warmer, Indian normal

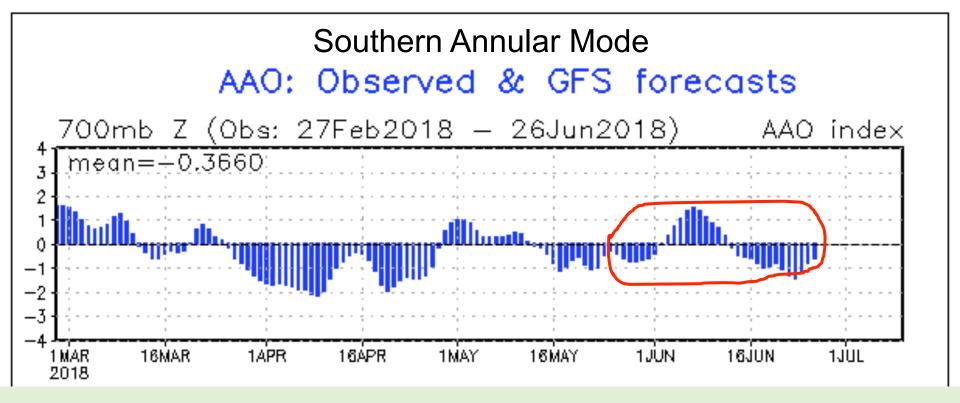


Global Tropical Moored Buoy Array Program Office, NOAA/PMEL

Trade winds normalish, bit of weak reversal in the centre, strong reversal north of the Equator.

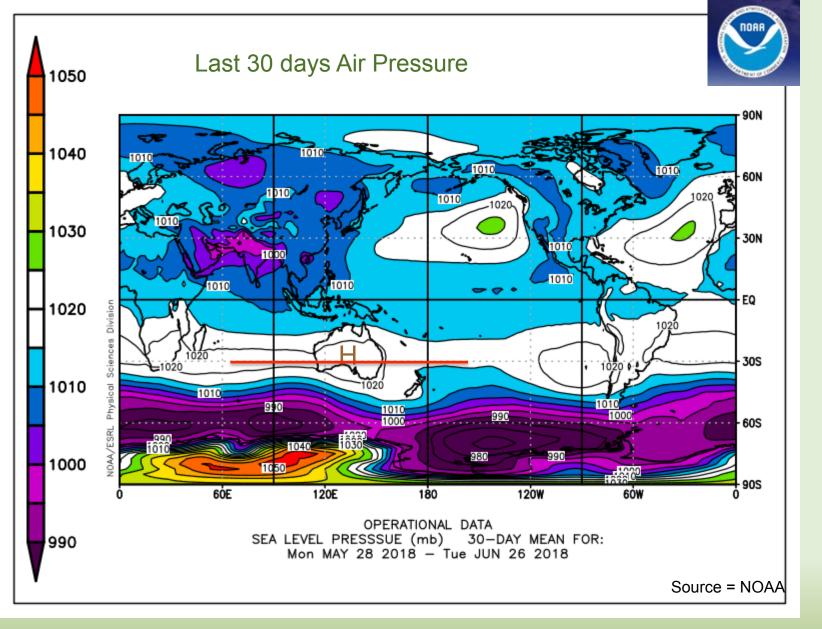


Cloud at the International Date Line is less = La Nina. Bit of NW cloud band activity

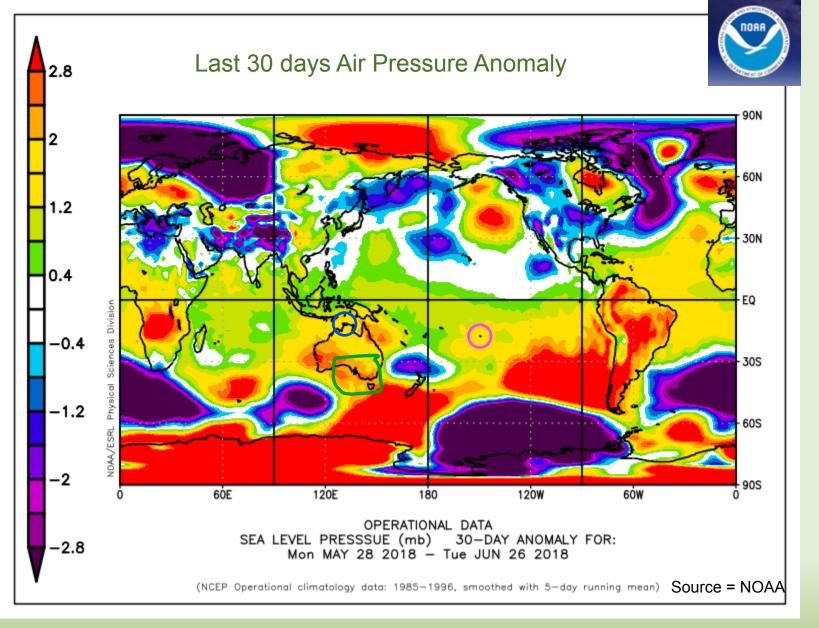


The Southern Annular Mode (SAM) has been close to neutral for the last month. Has most effect in Winter.

BoM and NOAA predictions suggest a return to neutral in the coming fortnight.

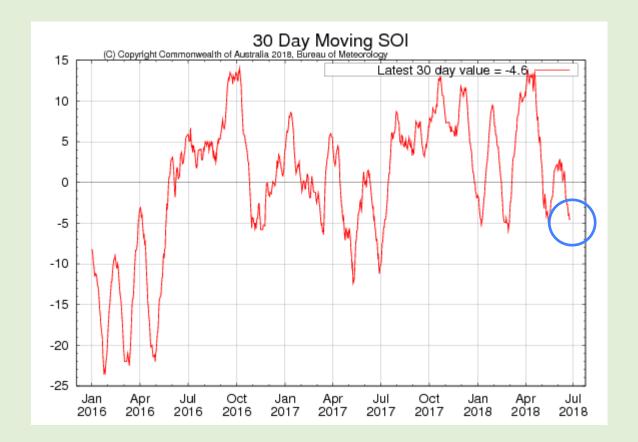


Centre of high pressure is slightly higher than a winter position N-S During June high centred over SA is sub optimal for SE Aust.



Pressure has been higher over most of Australia, strong highs moving slow Darwin pressure higher, Tahiti higher = SOI neutral

The SOI has ants in its pants





-4.6 and falling.

The pattern of high and low pressure around the Equator indicates neutral conditions.

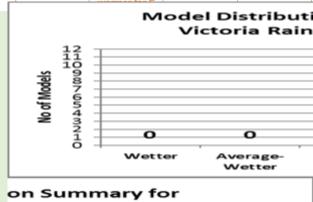
Worth watching the wet season is over.

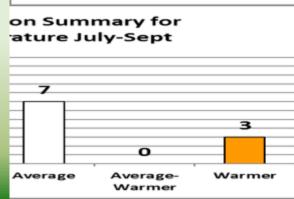
Modelled Climate and Ocean Predictions for Victoria from June 2018 run models

	Ocean-Atmosphere Coupled Models								Multi	Statistical			
	System 5 ECMWF Europe	POAMA2 BoM Australia	SINTEX-F JAMSTEC Japan	CFSv2 NCEP USA	GEOS-S2S NASA USA	ENS JMA Japan	CSM1.1m BCC China	UKMO GloSea5 UK	NMME USA	APCC Korea	EUROSIP Europe	SOI phase USQ/QId Australia	
Month of Run	June	June	June	June	June	June	May	June	June	June	June	June	
Forecast months	JAS	JAS	JJA	JAS	JAS	JAS	JAS	JAS	JAS	JAS	JAS	JAS	
Rainfall Skill	Low/moderate	Low	NA	Low S, moderate N	Moderate	Low	NA	Moderate	Low/moderate NE	NA	Low	NA	
Winter Pacific Ocean NINO3.4	Warm (weak El Niño)	Neutral	Warm (El Niño Modoki)	Slightly warm	Slightly warm	Slightly warm	Slightly warm	Warm (El Niño)	Warm (weak El Niño)	Slightly warm	Warm (weak El Niño)	-	
Winter Eastern Indian Ocean	Slightly cool	Neutral (weak –IOD)	Cool (+IOD)	Neutral, (weak +IOD)	Slightly warm	Neutral	Slightly warm (weak -IOD)	Slightly warm (weak -IOD)	Neutral, (weak +IOD)	Neutral	Neutral	-	
Winter Rainfall	Average, slightly drier NE	Slightly drier, average Gipps	slightly drier	Average	Average	Average	Average	Average, slightly drier Gipps	Average	Average	Average	Average/ slightly drier central	
Winter Temperature	Slightly warmer	Slightly warmer	Average	Average W, slightly cooler E	Slightly warmer	Average	Average	Average	Average	Average, slightly	Average	-	
July-Sept									Model Distributi Victoria Rain				

Neutral(possible El Nino) Pacific Ocean-Indian Ocean-Mixed Rainfall-

Average Temperature- Average





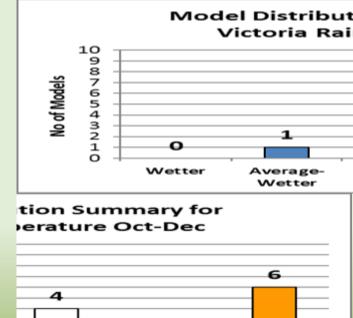
Modelled Climate and Ocean Predictions for Victoria from June 2018 run models

	Ocean-Atmosphere Coupled Models									Multi Model Ensembles		
	System 5 ECMWF Europe	POAMA2 BoM Australia	SINTEX-F JAMSTEC Japan	CFSv2 NCEP USA	GEOS-S2S NASA USA	ENS JMA Japan	CSM1.1m BCC China	UKMO GloSea5 UK	NMME USA	APCC Korea	EUROSIP Europe	SOI phase USQ/QId Australia
Month of Run	June	June	June	June	June	June	May	June	June	June	June	June
Forecast months	OND	OND	SON	OND	OND	-	OND	SON	SON	OND	SON	-
Spring Pacific Ocean NINO3.4	Warm (El Niño)	Neutral	Warm (El Niño Modoki)	Slightly warm	Slightly warm	-	Warm (weak El Niño)	Warm (El Niño)	Warm (El Niño)	Warm (weak El Niño)	Warm (El Niño)	-
Spring Eastern Indian Ocean	Neutral	Neutral	Cool (+IOD)	Slightly warm	Slightly warm		Neutral (weak –IOD)	Neutral	Neutral	Neutral	Neutral	•
Spring Rainfall	Slightly drier, average Gipps	Average	Slightly drier	Average	Average		Average W, slightly wetter E	Average	Average, slightly drier Centre	Average	Average	-
Spring Temperature	Slightly warmer	Slightly warmer, average NE	Slightly warmer	Average	Slightly warmer		Average	Average	Slightly warmer	Slightly warmer	Average	-

Oct-Dec

Pacific Ocean- El Nino Indian Ocean- Neutral Rainfall- Average Slightly

El Nino Neutral Average Slightly warmer/average



o

Average-

Warmer

Warmer

Average

