Making the most of the forecast





What's covered

- The difference between weather and climate
- How forecasts are derived
- Rainfall variability
- Average vs median
- Where to find information and how to assess it



Climate vs Weather



Models Statistical vs Dynamical

Statistical Compares current conditions to past conditions to provide a forecast

DynamicalUses current ocean and atmosphericconditions combine with understanding
of the physical processes



Models – How they have improved

Observations





Previous model









Example: Mean rainfall (mm/day) for summer (December – February)

Observations



New model



Previous model



Example: Mean rainfall (mm/day) for spring (September - November)



nce of above median for 23 Dec - 29 Dec

23 Dec - 29 Dec

Donada -

2 week

1 month

23 Dec - 5

16 Dec - 29 Dec



Tools

- Weather forecasts short term (1 7 days)
- Seasonal forecasts longer term (2 weeks 3 months)

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• 3 – 6 months currently under development

Probabilities – What are the chances?









Seasonal variability – Fitzroy Crossing



Seasonal variability – Fitzroy Crossing



Fitzroy Crossing Rainfall

Total Rainfall July -June Lowest on record 188 316 9 years out of 10 8 years out of 10 394 7 years out of 10 445 6 years out of 10 516 5 years out of 10 (Median) 576 4 years out of 10 614 3 years out of 10 668 2 years out of 10 725 1 year in 10 794 Highest on record 991 562 Average

1893 - 2018



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Average vs Median

Year	May	June	July	the some is	
2009	0	1	5	Australian Government	
2010	44	4	0	Bureau of Meteorology	80
2011	0	0	16		75 (%)
2012	0	4	0		e2 e2
2013	73	0	0		60 Lu
2014	8	0	0		50 gr
2015	0	0	0	Viene and the second	45 ee
2016	112	0	9		
2017	1	53	0	the mail	Chance
2018	0	0	0	Chance of exceeding the median rainfall for	25
Total	238	62	30	May to July 2020	
Average	23.8	6.2	3	Model: ACCESS-S1	Model run: 06/04/2020
Median	0.5	0	0	Base period: 1990-2012 May to July	Issued: 09/04/2020
				UNIVERSI	TY DOWNER
All years	May	June	July	œ souther Queenslan	ND ND
Average	11.8	8.4	6.2		A REAL
vedian	0	0	0	MEAT & LIVESTOCK AUSTRALIA	Queensland Government

Where to from here?

- Facebook
 - Climate Info for WA NT rain
 - Climate Info for Southern Queensland
 - Climate Info for North Queensland
 - Central Queensland's Climate Mates
- Northern Australia Climate Program

nacp.org.au

Contact details of all Climate Mates

- Forecasting for Decision Making
 - On-line course
 - Self-paced workbook nacp.org.au/outreach/training/launchpad

