



Supplement of

Evaluation of CORDEX ERA5-forced NARCliM2.0 regional climate models over Australia using the Weather Research and Forecasting (WRF) model version 4.1.2

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Eastern Australia











0.00 270 275 280 285 290 295 300 305 310 315 320 325

Near-surface maximum air temperature (K)

Fig. S1 Probability density functions of daily maximum near-surface air temperature (K) with bin width of 1 K in the Eastern Australia Natural Resource Management (NRM) region.

Southern Australia









315 320 325

0.10

0.00

PSS=0.831

305 310 315 320 325

Near-surface maximum air temperature (K)

Fig. S2 Probability density functions of daily maximum near-surface air temperature (K) with bin width of 1 K in the Southern Australia Natural Resource Management (NRM) region.







275 280 285 290 295 300 305

N1.5 ERAI WRFL

310 315 320 325

PSS=0.872





Near-surface maximum air temperature (K)

g

AGCD

Fig. S3 Probability density functions of daily maximum near-surface air temperature (K) with bin width of 1 K in the Rangelands Natural Resource Management (NRM) region.

Rangelands













Near-surface maximum air temperature (K)

Fig. S4 Probability density functions of daily maximum near-surface air temperature (K) with bin width of 1 K in the Northern Australia Natural Resource Management (NRM) region.

Northern Australia











ERA5 N2.0-R5 (DJF) Δ



ERA-I N1.5-WRFJ (DJF) A



ERA-I-CCLM (DJF) Δ

120°E 130°E 140°E 150°E

x | bias | 0.94

x bias -0.56



ERA5 N2.0-R1 (DJF) A

x | bias | 0.68 x bias -0.37

ERA5 N2.0-R6 (DJF) Δ









ERA-I N1.5-WRFL (DJF) Δ





ERA-I-WRFSWWA (DJF) Δ

120°E 130°E 140°E 150°E

5.0

x | bias | 0.92

x bias -0.65

Fig. S5 Summer (DJF) maximum temperature bias with respect to Australian Gridded Climate Data (AGCD) observations for 1981-2010. Stippled areas indicate locations where an RCM shows statistically significant bias (P < 0.05). **b** Significance stippling for the ensemble mean bias follows Tebaldi et al. (2011) and is applied separately to each of the two RCM ensembles. Statistically insignificant areas are shown in colour, denoting that less than half of the models are significantly biased. In significant agreeing areas (stippled), at least half of RCMs are significantly biased, and at least 66% of significant RCMs in each ensemble agree on the direction of the bias. Significant disagreeing areas are shown in white, which are where at least half of the models are significantly biased and less than 66% of significant models in each ensemble agree on the bias direction - see main text for additional detail on the stippling regime. Panel boundaries in green (red) indicate the RCMs with lowest (highest) areaaveraged mean absolute biases.

2.0 2.5 -3.5 -3.0 -2.5 -2.0 -1.5 -0.5 3.0 -5.0 -1.00.0 0.5 1.5 3.5 4.0 -4.5 -4.01.0 4.5 DJF mean tasmax (K) model minus obs. Δ











ERA-I N1.5-WRFJ (JJA) Δ



ERA-I-CCLM (JJA) Δ

120°E 130°E 140°E 150°E

500

x |bias| 1.21

x bias -1.09

р







1

x | bias | 2.02

x bias -1.97



d



ERA5 N2.0-R2 (JJA) Δ









Fig. S6 Winter (JJA) maximum temperature bias with respect to gridded observations. Stippling and panel boundary colouring as per Figure S5.



 $^{-2.5}$ $^{-2.0}$ $^{-1.5}$ $^{-1.0}$ $^{-0.5}$ $^{0.0}$ $^{0.5}$ $^{1.0}$ $^{1.5}$ $^{2.0}$ $^{2.5}$ JJA mean tasmax (K) model minus obs. Δ -3.5 -3.0 -2.5 -2.0 -1.5 -1.0 -0.5 0.0 3.0 -5.0 -4.5 -4.0 3.5 4.0 4.5 5.0



Fig. S7 RMSE annual cycle for historical maximum near surface temperature (K) as simulated over Australia by the ERA5-forced and ERA-Interim-forced RCMs.



-1.0 -0.5 0.0 0.5 1.0 -5.0 -4.5 -4.0-3.5-3.0 -2.5 -2.0 -1.5 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 99th percentile tasmax (K) model minus obs. Δ

Table S1. Diagnostics for seven (R1-R7) ERA5-forced regional climate models (RCMs) and six ERA-Interim-forced RCMs and their respective ensemble means for 1981-2010 with Australian Gridded Climate Data as reference data. Mean absolute biases are shown for annual and seasonal mean maximum and minimum temperature and precipitation, for annual extreme maximum and minimum temperature and precipitation, as well as Perkins Skill Scores (PSS) for the daily distributions of these variables for the CORDEX-Australasia domain over Australia (20 km resolution). Bold values indicate which of the ERA5-RCMs R1-R7 has the best diagnostic score from this RCM set.

				CO	RDEX Aust	tralasia (20 km)									
			Clim	nate Mean	s:	Climate Extremes:									
	• · · ·		M	ean bias		Mean bias	PSS								
Variable	Generation	RCM	Annual		JJA 1.24	Annual	NI / A			Encomblo	7 29	19/12	1 21	9.61	Ν/Δ
		Elisellible	0.05	0.01	1.54	0.00				D1	12.40	10.42	4.JI	20.02	
	ERA5-RCMs	KI R2	0.85	1.22	1.10	1.02	0.957			R1 R2	11.40	27.02	5.17	20.02	0.775
		RZ R2	1.01	1.23	2.30	1.02	0.917			RZ	11.33	22.79	5.06	14.83	0.817
		R3	0.90	1.02	1.55	0.00	0.950		ERA5-RCMs	K3	8.31	19.72	5.02	9.80	0.805
		K4	0.92	1.03	1.01	1.20	0.958			R4	7.46	16.33	5.67	9.21	0.801
		KD DC	0.54	1.09	1 50	0.80	0.942			R5	12.59	33.93	5.21	11.40	0.814
ta		KO DZ	0.85	1.18	1.58	0.80	0.922			R6	16.29	49.29	6.16	10.25	0.787
tasmax (K)	-	K7	0.85	0.99	1.39	1.08	0.938	pr (mm)		R7	15.92	46.43	6.23	9.91	0.787
		Ensemble	1.33	0.80	2.24	0.91	N/A			Ensemble	7.48	12.73	5.96	7.60	N/A
		WRFJ	1.58	1.29	2.26	1.56	0.940			WRFJ	20.65	31.54	12.38	8.75	0.798
		WRFK	1.37	1.06	2.02	1.32	0.945			WRFK	12.86	23.31	9.83	11.06	0.770
	EKAI-RCIVIS	WRFL	2.67	0.99	5.67	1.11	0.880		ERAI-RCMs	WRFL	7.81	15.96	7.63	9.45	0.678
		WRFSWWA	1.07	0.92	1.33	0.89	0.952			WRFSWWA	9.81	16.82	7.75	20.94	0.806
		CCAM	0.98	0.97	1.57	1.44	0.904			CCAM	10.39	22.85	9.17	15.77	0.837
			0.92	0.94	1.21	1.37	0.946			CCLM	11.66	24.05	5.61	17.69	0.798
		Ensemble	0.73	0.89	0.96	1.48	N/A								
	ERA5-RCMs	R1	0.95	1.12	0.85	1.30	0.943								
		R2	0.77	1.03	0.70	1.02	0.935								
		R3	0.77	1.02	0.96	1.47	0.938								
		R4	0.81	0.73	1.23	1.90	0.944								
		R5	0.93	1.22	1.07	1.55	0.937								
		R6	0.89	1.23	1.24	1.69	0.933								
tasmin (K)	-	R7	0.89	0.99	1.41	1.97	0.930								
		Ensemble	0.73	0.69	0.76	1.01	N/A								
		WRFJ	0.63	0.69	0.76	0.96	0.976								
E	ERAI-RCMs	WRFK	0.70	0.72	0.78	0.96	0.975								
		WRFL	1.47	0.78	2.80	2.86	0.915								
		WRFSWWA	1.75	1.78	1.68	2.15	0.912								
		CCAM	1.07	0.59	1.82	1.50	0.945								
		CCLM	2.25	1.75	2.75	3.33	0.900								

Eastern Australia







285



Near-surface minimum air temperature (K)

270

Fig. S9 Probability density functions of daily minimum near-surface air temperature (K) with bin width of 1 K in the Eastern Australia Natural Resource Management (NRM) region.



Southern Australia







305

310

0.00

310



0.00

270

Fig. S10 Probability density functions of daily minimum near-surface air temperature (K) with bin width of 1 K in the Southern Australia Natural Resource Management (NRM) region.



Rangelands

N2.0 ERA5 R2

N2.0 ERA5 R6

280

N1.5 ERAI WRFK

275

275

ERAI CCLM

AGCD

270

285

290

AGCD

270

AGCD

270

AGCD

270





Near-surface minimum air temperature (K)

Fig. S11 Probability density functions of daily minimum near-surface air temperature (K) with bin width of 1 K in the Rangelands Natural Resource Management (NRM) region.

305 310







285

290

295

300

PSS=0.849

305

N1.5 ERAI WRFL

AGCD

270





Near-surface minimum air temperature (K)

Fig. S12 Probability density functions of daily minimum near-surface air temperature (K) with bin width of 1 K in the Northern Australia Natural Resource Management (NRM) region.

Northern Australia



ERA-I Ensemble Mean (DJF) Δ 20°S 30°S x | bias | 0.69 40°S x bias 0.48







ERA5 N2.0-R5 (DJF) Δ

b



ERA-I N1.5-WRFJ (DJF) A





ERA5 N2.0-R6 (DJF) Δ



ERA-I N1.5-WRFK (DJF) Δ



ERA5 N2.0-R2 (DJF) Δ x |bias| 1.03 x bias -0.43



ERA-I N1.5-WRFL (DJF) Δ





Fig. S13 Summer (DJF) minimum temperature bias with respect to gridded observations with stippling and panel boundaries as per Fig. S5.



120°E 130°E 140°E 150°E

-3.5 -3.0 -2.5 -2.0 -1.5 -1.0 -0.5 2.0 2.5 -5.0 0.0 0.5 1.0 1.5 3.0 3.5 4.0 5.0 -4.5 -4.0 4.5 DJF mean tasmin (K) model minus obs. Δ



b

g

k

x | bias | 0.96

x bias 0.77

x |bias| 1.07

x bias 0.9

x | bias | 0.76

x bias -0.11

ERA-I N1.5-WRFJ (JJA) Δ



















Fig. S14 Winter (JJA) minimum temperature bias with respect to gridded observations with stippling and panel boundary colouring as per Fig. S5.





-3.5 -3.0 -2.5 -2.0 -1.5 -1.0 -0.5 0.0 -5.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 5.0 -4.5 -4.0 4.5 JJA mean tasmin (K) model minus obs. Δ



Fig. S15 RMSE annual cycle for historical minimum near surface temperature (K) as simulated over Australia by the ERA5-forced and ERA-Interim-forced RCMs.







-5.0























Fig. S16 Biases in 1st percentile minimum temperatures simulated by the ERA5 and ERA-Interim forced RCMs relative to AGCD gridded observations with stippling and panel boundary colouring as per Fig. S5.







Precipitation (mm day ^{- 1})

Fig. S17 Probability density functions of daily precipitation (mm day⁻¹) with bin width of 0.5 mm in the Eastern Australia Natural Resource Management (NRM) region.



Fig. S18 Probability density functions of daily precipitation (mm day⁻¹) with bin width of 0.5 mm in the Southern Australia Natural Resource Management (NRM) region.



Frequency (%)

Fig. S19 Probability density functions of daily precipitation (mm day⁻¹) with bin width of 0.5 mm in the Rangelands Natural Resource Management (NRM) region.

Rangelands



Northern Australia

Fig. S20 Probability density functions of daily precipitation (mm day⁻¹) with bin width of 0.5 mm in the Northern Australia Natural Resource Management (NRM) region.







-40

-35

-30

-25



ERA5 N2.0-R5 (DJF) Δ







ERA5 N2.0-R6 (DJF) A



ERA-I N1.5-WRFK (DJF) A





x bias 16.08

m

10



Fig. S21 Summer (DJF) precipitation bias with respect to gridded observations with stippling and panel boundary colouring as per Fig. S5.



20

15

25

30

35

40





120°E 130°E 140°E 150°E



-20

-15

-10

-5

0

DJF mean pr (mm) model minus obs. Δ



JJA mean pr (mm) model minus obs. Δ

Fig. S23 RMSE (log-transformed) annual cycle for historical precipitation as simulated over Australia by the ERA5-forced and ERA-Interim-forced RCMs.

-25

-30

-40

-35

-20

-15

-10

-5

99th percentile pr (mm) model minus obs. Δ

20

25

30

35

10

15

Fig. S24 Biases in 99th percentile precipitation simulated by the ERA5 and ERA-Interim forced RCMs relative to AGCD gridded observations with stippling and panel boundary colouring as per Fig. S5.

Fig. S25 Biases in 99th percentile precipitation simulated over south-eastern Australia (WRF simulation inner domain) by the ERA5 and ERA-Interim forced RCMs relative to AGCD gridded observations with stippling and panel boundary colouring as per Fig. S5.

Fig. S26 Annual, summer, and winter mean near-surface atmospheric maximum temperature bias for ERA5 and ERA-Interim reanalyses data sets with respect to Australian Gridded Climate Data (AGCD) observations (1981-2010).

Fig. S27 As per Fig. S26 but for 2016.

Fig. S28 Annual, summer, and winter mean near-surface atmospheric minimum temperature bias for ERA5 and ERA-Interim reanalyses data sets with respect to Australian Gridded Climate Data (AGCD) observations (1981-2010).

Fig. S29 As per Fig. S28 but for 2016.

Fig. S30 Annual, summer, and winter mean precipitation bias for ERA5 and ERA-Interim reanalyses data sets with respect to Australian Gridded Climate Data (AGCD) observations (1981-2010).

Fig. S31 As per Fig. S30 but for 2016.

Fig. S32 Namelist settings for the CORDEX-CMIP6 NARCliM2.0 ERA5forced RCMs R1-R7: left panel shows physics settings for each RCM; right panel shows settings universal to each of R1-R7.

	Domain	CORDEX Australasia 20 km outer domain					Southeast Australia Convection-permitting 4 km inner domain								
	RCM	R1	R2	R3	R4	R5	R6	R7	R1	R2	R3	R4	R5	R6	R7
]
	mp_physics	6	6	8	8	8	8	8	6	6	8	8	8	8	8
	ra_sw_physics	5	4	4	4	4	4	4	5	4	4	4	4	4	4
	ra_lw_physics	5	4	4	4	4	4	4	5	4	4	4	4	4	4
	sf_sfclay_physics	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	sf_surface_physics	2	4	4	4	4	4	4	2	4	4	4	4	4	4
	bl_pbl_physics	1	5	5	5	7	7	7	1	5	5	5	7	7	7
	cu_physics	2	1	2	2	2	6	6	0	0	0	0	0	0	0
	sf_urban_physics	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	radt	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	cudt	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	bldt	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	prec_acc_dt	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	DUCKET_mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
nhycicc	ievsiz	59	59	59	59	59	59	59	59	59	59	59	59	59	59
priysics	paeriev	29	29	29	29	29	29	29	29	29	29	29	29	29	29
	cam_abs_dim1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	isffly	1	1	1	1	1	1	1	1	1	1	1		1	+J 1
	urface input sourc	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	num soil lavers	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	sst update	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	tmn update	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	lagday	150	150	150	150	150	150	150	150	150	150	150	150	150	150
	sst_skin	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	usemonalb	.True.	.True.	.True.	.True.	.True.	.True.	.True.	.True.	.True.	.True.	.True.	.True.	.True.	.True.
	rdmaxalb	.True.	.True.	.True.	.True.	.True.	.True.	.True.	.True.	.True.	.True.	.True.	.True.	.True.	.True.
	slope_rad	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	topo_shading	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	shadlen	25000	25000	25000	25000	25000	25000	25000	25000	25000	25000	25000	25000	25000	25000
	dveg		2	2	4	2	2	4		2	2	4	2	2	4
	opt_crs		1	1	1	1	1	1		1	1	1	1	1	1
	opt_sfc		1	1	1	1	1	1		1	1	1	1	1	1
	opt_btr		1	1	1	1	1	1		1	1	1	1	1	1
	opt_run		3	3	1	3	3	1		3	3	1	3	3	1
	opt_frz		1	1	1	1	1	1		1	1	1	1	1	1
	opt_inf		1	1	1	1	1	1		1	1	1	1	1	1
	opt_rad		3	3	3	3	3	3		3	3	3	3	3	3
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	opt_thot		2	2	2 1	2 1	1	2 1		2	1	2 1	1	2 1	2 1
	opt_sic		1	1	1	1	1	1		1	1	1	1	1	1
	opt_gra		1	1	1	1	1	1		1	1	1	1	1	1
	opt soil		1	1	1	1	1	1		1	1	1	1	1	1
	opt pedo		1	1	1	1	1	1		1	1	1	1	1	1
	opt crop		0	0	0	0	0	0		0	0	0	0	0	0

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