

Table 8-14. Performance of SAMI RAMS Simulations Relative to Other Applications at 12 Km Horizontal Resolution.

(a) Surface Temperatures (deg C).

Domain	SAMI	SAMI	SAMI		All		
Model	RAMS	RAMS	RAMS		All		
Episode	3-12 Aug 1993	22-29 June 1992	24 Apr - 3 May 1995		All		
					Mean	Low	High
Accuracy of Peak Prediction (%)	11.0	11.2	14.6		9.1	4.4	14.9
Normalized Bias (%)	-1.5	-5.7	-1.5		0.7	-5.7	7.5
Mean Bias (deg C)	-0.7	-1.5	-0.5		-0.2	-1.5	1.6
Normalized Gross Error (%)	9.0	9.4	18.2		9.8	5.9	18.2
Gross Error (deg C)	2.0	2.1	2.1		2.0	1.4	3.3

(b) Surface Winds (m/s).

Domain	SAMI	SAMI	SAMI		All		
Model	RAMS	RAMS	RAMS		All		
Episode	3-12 Aug 1993	22-29 June 1992	24 Apr - 3 May 1995		All		
					Mean	Low	High
Mean Observed Wind Speed	1.11	1.54	1.86		1.89	1.02	2.94
Mean Predicted Wind Speed	2.66	2.55	2.98		2.41	1.61	3.11
Observed Standard Dev.	1.80	1.89	2.42		2.16	1.80	2.42
Predicted Standard Dev.	1.79	1.56	2.73		1.87	1.04	3.04
RMSE	2.18	1.89	2.35		2.04	1.61	3.21
RMSE _S	1.72	1.38	1.84		1.57	1.27	2.48
RMSE _U	1.28	1.24	1.46		1.25	0.78	1.88
Index of Agreement, I	0.75	0.75	0.81		0.74	0.64	0.81

Skill_E	0.75	0.66	0.64		0.60	0.38	0.89
Skill_{VAR}	1.02	0.84	1.15		0.88	0.52	1.47
Difference in Mean Wind Direction (deg)	25.6	20.6	4.4		12.5	0.1	27.1

(c) Surface Mixing Ratios (gm/Kg).

Domain	SAMI	SAMI	SAMI		All		
Model	RAMS	RAMS	RAMS		All		
Episode	3-12 Aug 1993	22-29 June 1992	24 Apr - 3 May 1995		All		
					Mean	Low	High
Accuracy of Peak Prediction (%)	11.1	11.1	13.3		12.7	8.8	19.2
Normalized Bias (%)	-3.3	-2.0	-1.9		-2.6	-11.3	9.8
Mean Bias (gm/Kg)	-0.6	-0.3	-0.1		-0.4	-1.6	0.4
Normalized Gross Error (%)	8.7	9.0	11.6		12.5	8.5	27.0
Gross Error (gm/Kg)	1.1	1.0	0.7		1.5	0.7	2.2