

Table 2. Terms from 60-d water vapor conservation equation (mm d^{-1}).

Model	S	E	P	C	P-E	ρ
ClimRAMS	0.4	3.5	4.0	0.9	0.5	N/A
CRCM	0.0	2.9	4.6	1.7	1.7	N/A
DARLAM	0.3	3.8	6.5	3.0	2.7	0.06
EM	0.5	4.2	5.0	1.3	0.8	0.06
HIRHAM	0.7	3.5	4.4	1.6	0.9	0.06
MM5-ANL	0.3	3.3	4.3	1.3	1.0	0.06
MM5-BATS	0.3	4.3	5.3	1.3	1.0	0.06
NCEP RSM	0.3	5.4	6.0	0.9	0.6	0.08
PROMES	0.1	2.0	5.1	3.2	3.1	0.03
RegCM2	0.4	3.8	5.2	1.8	1.4	0.07
Scripps RSM	0.3	5.6	5.9	0.6	0.3	0.08
SweCLIM- ECMWF	0.1	4.3	5.4	1.2	1.1	0.07
SweCLIM-NCEP	0.2	4.1	5.0	1.1	0.9	0.07
Observations						
Station	N/A	N/A	6.2	N/A	N/A	N/A
Higgin Grid	N/A	N/A	5.9	N/A	N/A	N/A
Delaware Grid	N/A	N/A	6.2	N/A	N/A	N/A

Table 3. Portion of convective and stable precipitation.

	Convective Fraction (%)	Stable Fraction (%)
ClimRAMS	75.98	24.01
CRCM	51.64	48.35
DARLAM	97.65	2.34
EM	66.32	33.67
HIRHAM	39.57	60.42
MM5-ANL	39.62	60.37
MM5-BATS	36.52	63.47
NCEP RSM	60.67	39.32
PROMES	87.73	12.26
RegCM2	N/A	N/A
Scripps RSM	67.88	32.11
SweCLIM-ECMWF	51.75	48.24
SweCLIM-NCEP	46.22	53.77

Table 4. Satellite features during Low Rate Events.

Date	Weather Features across GUMRB
June 2 (day 2)	stratus
June 4 (day 4)	stratus
June 6 (day 6)	small MCS
June 7 (day 7)	decaying MCS
June 8 (day 8)	small MCS
June 9 (day 9)	decaying MCS, stratus deck
June 13 (day 13)	decaying small MCS
June 16 (day 16)	decaying small MCS
June 17 (day 17)	stratus, localized thunderstorms
June 18 (day 18)	stratus, localized thunderstorms
June 19 (day 19)	low pressure system
June 24 (day 24)	decaying large MCS
June 30 (day 30)	decaying large MCS
July 1 (day 31)	decaying large MCS
July 2 (day 32)	decaying large MCS
July 4 (day 34)	stratus
July 5 (day 35)	stratus, localized thunderstorms
July 6 (day 36)	large MCS
July 7 (day 37)	decaying large MCS, stratus
July 8 (day 38)	decaying large MCS, stratus

July 9 (day 39)	decaying large MCS, stratus
July 10 (day 40)	decaying large MCS
July 11 (day 41)	decaying large MCS
July 13 (day 43)	decaying large MCS
July 14 (day 44)	decaying small MCS
July 15 (day 45)	stratus, localized thunderstorms
July 16 (day 46)	stratus, localized thunderstorms
July 17 (day 47)	decaying small MCS
July 21 (day 51)	decaying small MCS
July 22 (day 52)	stratus, localized thunderstorms
July 23 (day 53)	decaying large MCS
July 24 (day 54)	decaying large MCS, stratus

Table 5. Satellite features during High Rate Events.

Date	Weather Features across GUMRB
June 4 (day 4)	large MCS
June 7 (day 7)	missing data
June 16 (day 16)	large MCS
June 17 (day 17)	large MCS
June 19 (day 19)	decaying large MCS
June 24 (day 24)	large MCS
June 25 (day 25)	large MCS
June 29 (day 29)	small MCS
June 30 (day 30)	large MCS
July 1 (day 31)	large MCS
July 2 (day 32)	large MCS
July 3 (day 33)	large MCS, localized thunderstorms
July 4 (day 34)	large MCS
July 5 (day 35)	small MCS
July 6 (day 36)	large MCS, small MCS
July 8 (day 38)	large MCS
July 9 (day 39)	large MCS
July 10 (day 40)	small MCS
July 11 (day 41)	small MCS
July 13 (day 43)	large MCS

July 14 (day 44)	large MCS
July 17 (day 47)	large MCS
July 22 (day 52)	decaying small MCS, local thunderstorms
July 23 (day 53)	large MCS
July 24 (day 54)	large MCS