

Appendix S

Physical Features - II Extract Table

EXTRACT MATRIX XVIII: PHYSICAL FEATURES OF MODELS II

Model	(Radio)chemical Transformation and In-cloud Conversion Processes	Urban Heat Island	Canopies	Complex Terrain (Land) Effects (Mountain-valley Wind Reversals, Anabatic Winds, Katabatic Winds)	Complex Terrain (Land-water) Effects (Sea Breeze Airflow Trajectory Reversals, Thermally Induced Boundary Layer Definition, Sea Breeze Fumigation, Land Breeze Fumigation)	Thunderstorm Outflow	Temporarily Variant Winds	High Velocity Wind Phenomena (Tornado, Hurricane, Supercane, Microburst)
ADAM	✓	NA	NA	NA	NA	NA	NA	NA
AXAOTHER XL	NA	NA	NA	NA	NA	NA	NA	✓
BNLGP	NA	NA	NA	NA	NA	NA	NA	NA
CALPUFF	✓	NA	NA	✓	✓	NA	NA	NA
CCSL	NA	NA	✓	✓	NA	NA	NA	NA
CTDMPLUS	NA	NA	NA	NA	✓	NA	NA	NA
DOSEEP	NA	NA	NA	✓	NA	NA	NA	NA
ETMOD	✓	NA	NA	NA	NA	NA	NA	NA
FEM3C	NA	NA	NA	✓	NA	NA	✓	NA
HARM II	NA	NA	NA	✓	NA	NA	NA	NA
HOTMAC/RAP TAD	NA	✓	✓	✓	✓	✓	✓	Hurricane
HRW	NA	NA	NA	NA	✓	NA	NA	NA
INPUFF	NA	NA	NA	NA	NA	NA	✓	NA
OMEGA/ADM v3.5	NA	✓	✓	✓	✓	✓	✓	Tornado
PAVAN	NA	NA	NA	NA	Seabreeze	NA	NA	NA
PIKE	NA	NA	NA	✓	NA	NA	✓	NA
RTSVM	NA	NA	NA	✓	NA	NA	NA	NA
SCIPUFF	NA	NA	NA	✓	✓	NA	NA	NA

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TRAC RA/HA	NA	NA	NA	✓	NA	NA	NA	✓
TRIAD 2-1	NA	NA	NA	✓	NA	NA	NA	NA
UFOTRI	NA	NA	✓	NA	NA	NA	NA	NA
VLSTRACK	NA	NA	NA	✓	NA	NA	NA	NA

NA Not applicable for this model.