

WRF ARW Model Configuration at RAH

Model Computational Domain Information

WRF Core	: Advanced Research WRF (ARW)
Number of Domains	: 1
MOAD Grid Dimensions (W-E x S-N)	: 218x124
MOAD Grid Spacing	: 3.0 km
Map Projection	: Lambert
MOAD Center Lat/Lon	: 35.75,-79.73
MOAD Timestep	: 15s
Vertical ETAP Levels	: 45
Pressure at Model Top	: 100 mb

WRF Run Dynamics Configuration

Model Dynamics	: Non Hydrostatic
Time Integration	: Runge-Kutta 3rd Order Turbulence and
Mixing Option	: Evaluates Mixing Terms in Physical Space
Eddy Coefficient Option	: Horizontal Smagorinsky First Order Disclosure
Upper Level Damping	: Off
Vertical Velocity Damping	: On

WRF Run Physics Configuration

Cumulus Scheme	: None
Cumulus Timestep	: 5 Minutes
Microphysics Scheme	: WSM6 Microphysics
Moisture (Q) Threshold Plan	: Set All Q Fields to Threshold Moisture Threshold : 1.e-8
Boundary Layer Scheme	: TKE prediction Boundary Layer Timestep : 0 Minutes
Land-Surface Scheme	: Noah 4-Layer Land Surface Model
Number of Soil Layers	: 4
Source of Landuse and Soil Data :	Standard Initialization (SI)
Surface Layer Scheme	: Revised MM5 Monin-Obukhov scheme
Include Surface Fluxes	: Yes
Long Wave Radiation	: Rapid Radiative Transfer Model
Short Wave Radiation	: GFDL
Radiation Timestep	: 4 Minutes
Include Cloud Effects	: Yes