

**Attention:** The accuracy or reliability of the data is not guaranteed nor warranted in any way. The data is provided as is and should not be used as the sole resource for decision making. Mesoscale forecast guidance is best interpreted by a professional meteorologist who is familiar with the particular modeling system, including any model biases. This version of the WRF model is greatly influenced by the NAM12 analyses and the model output that provides the boundary conditions.

#### **Domain & Run Information**

Domain Type	: Limited Area
Primary Time Step	: 15 Seconds
Grid dimensions (NX x NY)	: 160 x 134
Vertical Layers (NZ)	: 45
Grid Spacing	: 3.00 km
Top of Model Atmosphere	: 50mb
Parent Domain	: NA

#### **Timing Information**

Simulation Length	: 48 Hours
Boundry Update Freq	: 03 Hours

#### **File Output Information**

File Output Freq	: 01 Hour
Output File Format	: netCDF
Adjust Output Times	: Yes

#### **Model Physics**

Cumulus Scheme	: None
Microphysics Scheme	: 98
PBL Scheme	: Quasi-Normal Scale Elimination
Land Surface Scheme	: Noah 4-Layer LSM
Number Soil Layers	: 4
Surface Layer Physics	: 4
Long Wave Radiation	: RRTM
Short Wave Radiation	: Dudhia Scheme
Cloud Effects	: Cloud Effects On
Topographic Shading	: Shading Effects Off

#### **ARW Core Model Dynamics**

Dynamics	: Non-Hydrostatic
Gravity Wave Drag	: Off

Time-Integration Scheme : Runge-Kutta 3rd Order  
Diffusion Scheme : Simple Diffusion  
6th-order Diffusion : 6th-Order W/O Up-Gradient  
6th-order Diffusion Rate : 0.12  
Eddy Coefficient Scheme : 2D 1st Order Closure  
Damping Option : W-Rayleigh  
Damping Depth from Top : 5 Km  
Damping Coefficient : 0.2  
W Damping : W Damping On  
Horiz Momentum Advection : 5th Order  
Horiz Scalar Advection : 5th Order  
Vert Momentum Advection : 3rd Order  
Vert Scalar Advection : 3rd Order  
Sound Time Step Ratio : 4 to 1 (Large TS)  
Moisture Advection Option : Positive-Definite  
Scalar Advection Option : Positive-Definite  
TKE Advection Option : Positive-Definite