

	ARW	NMM
Number of grid points	225 x 225 x 51	162 x 322 x 51
Horizontal grid spacing	2 km	2 km
Terrain smoothing	None	Highest peaks are reduced
Timestep	6.0 s	3.0 s
Microphysics	Ferrier	Ferrier
Cumulus parameterization	None	None
Longwave radiation	GFDL	GFDL
Shortwave radiation	GFDL	GFDL
Boundary Layer	Mellor-Yamada-Janjic	Mellor-Yamada-Janjic
Land Surface Model	Noah	Noah
Diffusion	1.5 order TKE (3D)	Divergence damping
Forecast initialization	00 and 12 UTC	00 and 12 UTC
Forecast length	24 h	24 h
Initial conditions	RUC	RUC
Lateral boundary conditions	NAM G212	NAM G212

Description of ARW and WRF-NMM runs done at NOAA ESRL GSD for T-REX

Ligia Bernardet, Steven Koch, John Brown, Brian Jamison

The source code used is based on WRF v2.1.2. It contains numerous developments done by Tania Smirnova to allow physics interoperability. The same physics packages are run in the two cores.

The table below describes the models' configuration in detail.