

Data sources

Model	Range	Resolution	Period and frequency	Source
Operational products				
GFS	Global	Native = T574 ¹ ($\Delta x \sim 23$ km) 64 vertical levels Data = 0.5,1,2.5°	2011-present 6-h analyses 3-h forecasts	Nomads ²
FNL	Global	Same as GFS, except with more data assimilated	2004-present, 6-h analyses 3-h forecasts	Nomads 'gfsanl' directory
NAM	Parent	$\Delta x = 12km$	2004-present 6-h analyses 1-h forecasts	Nomads 'nam' directory
	CONUS AK, HI, PR	$\Delta x = 4km$ $\Delta x = 3km$		
SREF ³	Same grids as NAM	Same as NAM	Past few days 6-h analyses 3-h forecasts	Nomads ⁴
RUC (Now RAP)	North America	$\Delta x = 13km$ ⁵ 50 vertical levels Uses WRF-ARW GFS BCs ⁶	2002-present 1-h analyses	Nomads 'ruc' directory
Reanalysis products				
NARR	Northern Hemisphere	$\Delta x = 32km$ 29 pressure levels	1979-present 3-h analyses	Nomads 'narr' directory
NCEP/ NCAR Reanalysis I	Global	Native = T62 ($\Delta x \sim 215$ km) 17 pressure levels Data = 2.5°	1948-2008 6-h analyses	NOAA ESRL ⁷
20th Century Reanalysis	Global	Native = T62 ($\Delta x \sim 215$ km) 24 pressure levels Data = 2°	1871-2008 6-h analyses	NOAA ESRL ⁸
CFSR Reanalysis	Global	Native = T382 ($\Delta x \sim 35$ km) 64 vertical levels Data = 0.5,1,2.5°	1979-2011 6-h analyses	Nomads 'cfsr' directory

¹Increasing to T1148, or $\Delta x \sim 12$ km in 2013

²The parent NCEP "Nomads" url is <http://nomads.ncdc.noaa.gov/data/>

³Produces ensemble forecasts from 21 members: 5 ETA, 5 ETA Kain-Fristch, 5 RSM, and 3 members each with the WRF-NMM and WRF-ARW

⁴SREF: <ftp://ftpprd.ncep.noaa.gov/pub/data/nccf/com/sref/prod/>

⁵RAP data/output grids: <http://rapidrefresh.noaa.gov/RR-NCEP-grids.txt>

⁶BCs = Boundary conditions

⁷NOAA ESRL: <http://www.esrl.noaa.gov/psd/data/composites/day/>

⁸NOAA ESRL: http://www.esrl.noaa.gov/psd/data/composites/subdaily_20thc/