

WPS Cheat Sheet

WRF Preprocessing System

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geogrid.exe

ungrib.exe

metgrid.exe

namelist.wps

Verify information in
share and *geogrid* sections

See Experimental Design
Variable Table for details

namelist.wps

Verify information in
ungrib section

See Experimental Design
Variable Table for details

namelist.wps

Verify information in
metgrid section

See Experimental Design
Variable Table for details

link_grib.csh

Tell *ungrib.exe* where
LBC data located

Designate a Vtable

Tell *ungrib.exe* names of
variables in LBC data

Run geogrid.exe



File Created*

geo_em.d01.nc

Run ungrib.exe



File(s) Created*

FILE:YYYY-MM-DD__hh
(WRF Intermediate Format)

Run metgrid.exe



File(s) Created*

met_em.d01.YYYY-MM-DD_
hh:mm:ss.nc

Data in above file(s) will be
used by *real.exe* in second
step of WRF

plotgrids.ncl

Plot data in above file to
visually confirm
experimental design

rd_intermediate.exe

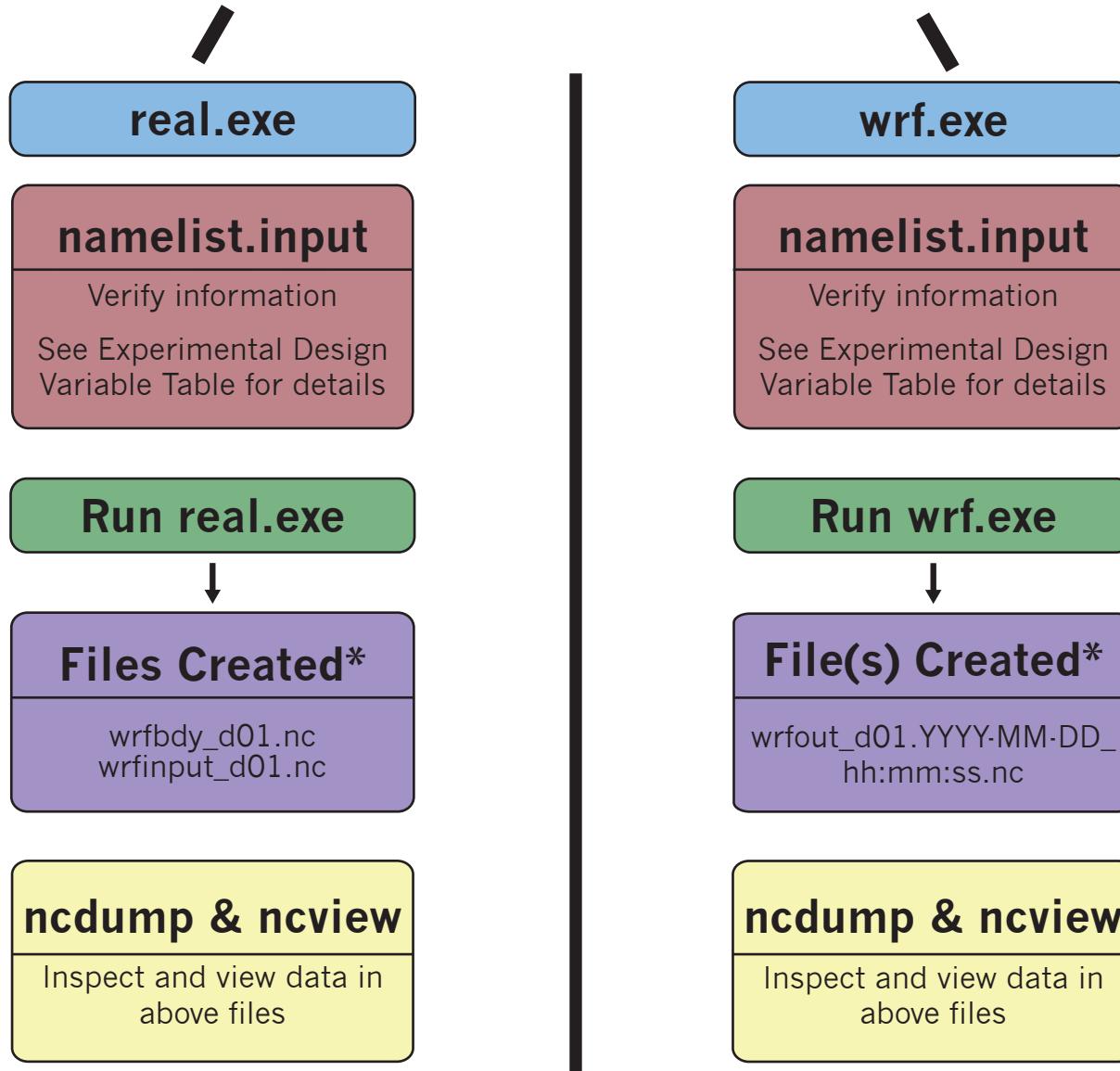
Inspect data in above file(s) to
confirm their content

*File(s) for a single domain.

Nested grids will produce multiple files.

WRF Cheat Sheet

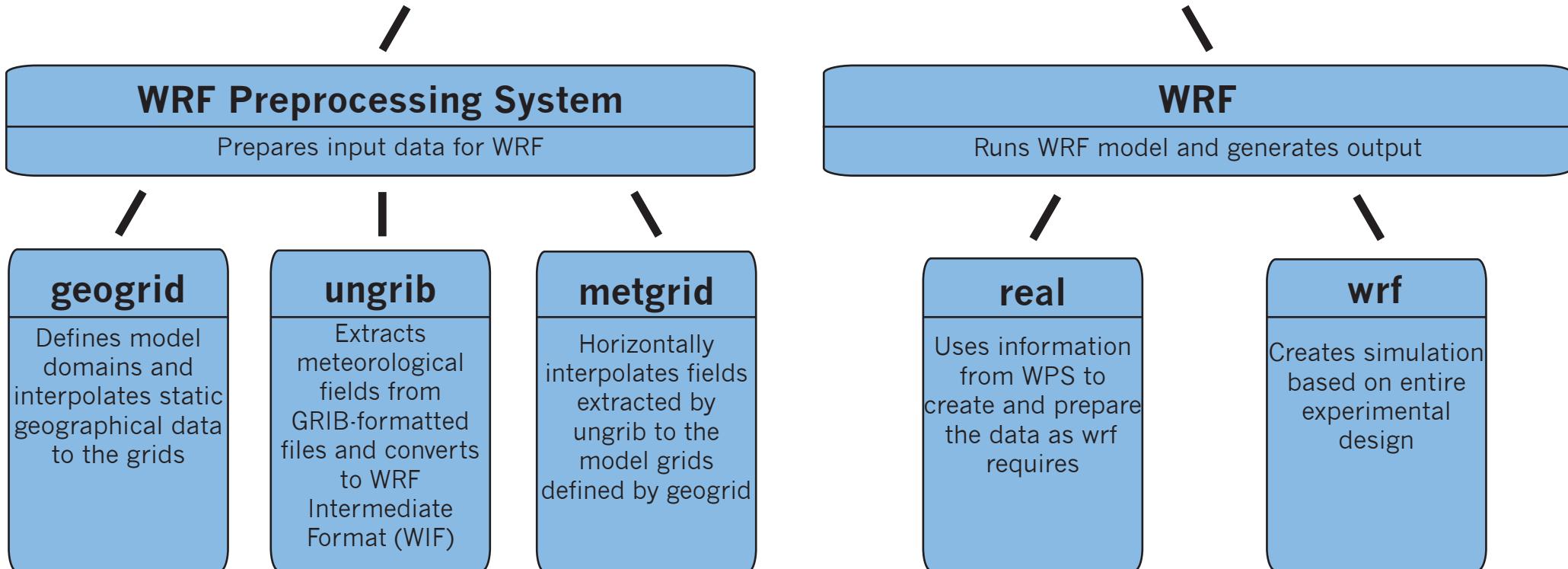
Weather Research & Forecasting



*File(s) for a single domain.
Nested grids will produce multiple files.

WRF Organizational Tree

Weather Research & Forecasting Model



WRF Experimental Design Variable Table

WPS			WRF	
namelist.wps*			namelist.input*	
geogrid.exe	ungrib.exe	metgrid.exe	real.exe	wrf.exe
&share wrf_core max_dom start_date end_date interval_seconds io_form_geogrid	&ungrib out_format prefix	&metgrid fg_name io_form_metgrid	&time_control start_year start_month start_day start_hour end_year end_month end_day end_hour history_interval frames_per_outfile	You are ready to run your WRF simulation.
&geogrid parent_id parent_grid_ratio i_parent_start j_parent_start e_we e_sn geog_data_res dx dy map_proj ref_lat ref_lon truelat1 truelat2 stand_lon geog_data_path			&domains time_step max_dom e_we e_sn dx dy e_vert p_top_requested	