

NEXT NAEFS exchange pgrba files

Variables	pgrba file	Total 80 (28)
GHT	Surface, 10, 50, 100, 200, 250, 500, 700, 850, 925, 1000hPa	11 (3)
TMP	2m, 2mMax, 2mMin, 10, 50, 100, 200, 250, 500, 700, 850, 925, 1000hPa	13 (3)
RH	2m, 10, 50, 100, 200, 250, 500, 700, 850, 925, 1000hPa	11 (3)
UGRD	10m, 10, 50, 100, 200, 250, 500, 700, 850, 925, 1000hPa	11 (3)
VGRD	10m, 10, 50, 100, 200, 250, 500, 700, 850, 925, 1000hPa	11 (3)
VVEL	850hPa	1 (1)
PRES	Surface, PRMSL	2 (0)
PRCP (types)	APCP, CRAIN, CSNOW, CFRZR, CICEP	5 (0)
FLUX (surface)	LHTFL, SHTFL, DSWRF, DLWRF, USWRF, ULWRF	6 (6)
FLUX (top)	ULWRF (OLR)	1 (1)
PWAT	Total precipitable water at atmospheric column	1 (0)
TCDC	Total cloud cover at atmospheric column	1 (0)
CAPE and CIN	Convective available potential energy, Convective Inhibition	2 (1)
SOIL	SOILW(0-10cm), WEASD(water equiv. of accum. snow depth), SNOD(surface), TMP(0-10cm down)	4 (4)
Notes	Surface GHT is only in analysis file and first pgrb file when the resolution changed. 25 of 28 new variables are from pgrbb files, 10, 50hPa RH and SNOD are new variables	28 new vars

NEXT NAEFS pgrba bc files (bias correction)

Variables	pgrba_bc file	Total 49 (14)
GHT	10, 50, 100, 200, 250, 500, 700, 850, 925, 1000hPa	10 (3)
TMP	2m, 2mMax, 2mMin, 10, 50, 100, 200, 250, 500, 700, 850, 925, 1000hPa	13 (3)
UGRD	10m, 10, 50, 100, 200, 250, 500, 700, 850, 925, 1000hPa	11 (3)
VGRD	10m, 10, 50, 100, 200, 250, 500, 700, 850, 925, 1000hPa	11 (3)
VVEL	850hPa	1 (1)
PRES	Surface, PRMSL	2 (0)
FLUX (top)	ULWRF (toa - OLR)	1 (1)
		14 new vars
Notes		

Downstream Dependencies

- Sigma files
 - SREF
 - Yes
 - Tested, no RFC (Julia Zhu)
 - It uses sigma forecast
 - Wave ensemble
 - No
 - It uses bias corrected 10m winds
 - Tracking
 - No
 - It uses pgrba file
 - MDL GMOS
 - No
 - It uses pgrba and pgrbb files
 - Public access
 - No
 - We don't post sigma files to public
- pgrb files (pgrba + pgrbb)
 - SREF
 - No
 - It produces pgrb file by itself
 - Wave ensemble
 - Yes
 - Tested, need RFC (Arun Chawla)
 - Tracking
 - Yes, but no RFC
 - Tested, no RFC (Guang Ping Lou)
 - It uses pgrba file only, the file has the same format
 - MDL GMOS
 - Yes
 - Tested, no RFC (Kathryn Gilbert's group)
 - It uses both pgrba and pgrbb
 - Public access
 - Yes
 - pgrba and pgrbb