

Instructions for creating GFE grids for Hazard Services NPW and WSW Jobsheets

1. In Practice mode, create the desired **T**, **ApparentT**, **Wind** and **WindGust** grids which are the basic ones for NPW. Wx and Visibility can also be created if Dense Fog/Smoke are to be tested as well.

For WSW, you will need SnowAmt and whatever other elements you will be sampling as configured in the site-level LocalVariables methods **useStormTotalSnowGrid**, **useSleetAmtGrid**, **usePotBlowingSnowGrid**, and **iceAccumElement**.

For any of the elements that you wish to have a more realistic look, you can copy from Fcst or Official into the Practice database. Then you just modify the values to meet criteria for NPW or WSW hazards.

2. To save these grids off for use by each forecaster, make a netCDF of the desired grids. It should run as any user. From a terminal window command line, type the following:

```
/awips2/GFESuite/bin/ifpnetCDF -d XXX_GRID_Prac_Fcst_00000000_0000 -o <location you want file stored>/NPWgrids.nc -p Wind -p WindGust -p T -p ApparentT -p Visibility -p Wx -c -f 9  
where XXX is your office ID
```

As an example, here is the command with everything included:

```
[shannon.white@ ~]$ /awips2/GFESuite/bin/ifpnetCDF -d GYX_GRID_Prac_Fcst_00000000_0000 -o /data/local/NPWgrids.nc  
-p Wind -p WindGust -p T -p ApparentT -p Visibility -p Wx -c -f 9
```

You can save off multiple sets to have values in the same weather element match different hazards or have different areas in the CWA with different values.

3. Then before the running forecasters through the jobsheets, put the grids in place after deleting all Practice grids via the Reset Practice menu in GFE (**Reset Practice** → **Clear Fcst Grids**).

```
/awips2/GFESuite/bin/iscMosaic -d XXX_GRID_Prac_Fcst_00000000_0000 -f <location where file is stored>/NPWgrids.nc.gz -n
```

As an example, here is the command with everything included:

```
[shannon.white@ ~]$ /awips2/GFESuite/bin/ifpnetCDF -d GYX_GRID_Prac_Fcst_00000000_0000  
-f /data/local/NPWgrids.nc.gz -p Wind -p WindGust -p T -p ApparentT -p Visibility -p Wx -n
```

4. GFE will need to be started either via the command line with the -time option or the time changed once the practice GFE is started

```
[shannon.white@ ~]$ /awips2/cave/cave.sh -mode PRACTICE -time 20230622_1900
```

OR

