

Evaluation System

We need to put together an evaluation system for this project. Ultimately it will be required to evaluate most of the fields in the grb2 file provided by GSD. The file is routinely evolving so expect fields to be added over the next year.

Forecast file location: dakota:/d3/projects/USWRP_ENSHAZ/PHPT (Probability Hazard Product Tool)

[Grib2 Table for these files](#) (as of 12/13)

NOTES: Files are gzipped to save space. It might be nice if the script could call gunzip before processing and then gzip after... Thoughts?

Obs file locations:

Stage IV: /d3/projects/USWRP_ENSHAZ/StageIV

Grib records in the the *.01h file: 1:0:d=16093011:APCP:kpds5=61:kpds6=1:kpds7=0:TR=4:P1=0:P2=1:TimeU=1:sfc:0-1hr acc:Nave=0

WPC Snowfall Analysis: /d3/projects/USWRP_ENSHAZ/WPC_Snowfall_Analysis/grids/netcdf

Ncdump of the variable we would like to use:

```
float S01I_NONE(time, y, x) ;
    S01I_NONE:units = "" ;
    S01I_NONE:long_name = "S01I @ NONE" ;
    S01I_NONE:missing_value = -9999.f ;
    S01I_NONE:grid_mapping = "LCC" ;
    S01I_NONE:VectorComponentFlag = "gridRelative" ;
    S01I_NONE:coordinates = "time y x " ;
```

NOTE: WPC data needs to be converted from GEMPAK to netcdf. John has found a utility to do this. It would be good to get it documented here.

| FVAR | Desc | Type | Acc/Lvl | ProbThresh | OVAR | OBType | Type | Acc/Lvl | Thresh | Gridded or Point | PCP_Combine |
|-------|--------------|---------|---------|------------|-------|---------|---------|---------|--------|------------------|--------------|
| APCP | Accum Precip | 1hr acc | A01 | >12.7 | APCP | StageIV | 1hr acc | A01 | >12.7 | Gridded | no |
| APCP | Accum Precip | 1hr acc | A01 | >25.4 | APCP | StageIV | 1hr acc | A01 | >25.4 | Gridded | no |
| APCP | Accum Precip | 1hr acc | A01 | >50.8 | APCP | StageIV | 1hr acc | A01 | >50.8 | Gridded | no |
| APCP | Accum Precip | 3hr acc | A03 | >12.7 | APCP | StageIV | 3hr acc | A03 | >12.7 | Gridded | yes from A01 |
| APCP | Accum Precip | 3hr acc | A03 | >25.4 | APCP | StageIV | 3hr acc | A03 | >25.4 | Gridded | yes from A01 |
| APCP | Accum Precip | 3hr acc | A03 | >50.8 | APCP | StageIV | 3hr acc | A03 | >50.8 | Gridded | yes from A01 |
| APCP | Accum Precip | 3hr acc | A03 | >76.2 | APCP | StageIV | 3hr acc | A03 | >76.2 | Gridded | yes from A01 |
| APCP | Accum Precip | 6hr acc | A06 | >12.7 | APCP | StageIV | 6hr acc | A06 | >12.7 | Gridded | yes from A01 |
| APCP | Accum Precip | 6hr acc | A06 | >25.4 | APCP | StageIV | 6hr acc | A06 | >25.4 | Gridded | yes from A01 |
| APCP | Accum Precip | 6hr acc | A06 | >50.8 | APCP | StageIV | 6hr acc | A06 | >50.8 | Gridded | yes from A01 |
| APCP | Accum Precip | 6hr acc | A06 | >76.2 | APCP | StageIV | 6hr acc | A06 | >76.2 | Gridded | yes from A01 |
| APCP | Accum Precip | 6hr acc | A06 | >152.4 | APCP | StageIV | 6hr acc | A06 | >152.4 | Gridded | yes from A01 |
| ASNOW | Accum Snow | 1hr acc | A01 | >0.0127 | ASNOW | StageIV | 1hr acc | A01 | >1.27 | Gridded | no |
| ASNOW | Accum Snow | 1hr acc | A01 | >0.0254 | ASNOW | StageIV | 1hr acc | A01 | >2.54 | Gridded | no |
| ASNOW | Accum Snow | 1hr acc | A01 | >0.0508 | ASNOW | StageIV | 1hr acc | A01 | >5.08 | Gridded | no |

| | | | | | | | | | | | |
|-------|------------|---------|-----|---------|-----------|---------|---------|-----|--------|---------|------------------------------------|
| ASNOW | Accum Snow | 6hr acc | A06 | >0.0127 | ASNOW | StageIV | 6hr acc | A06 | >1.27 | Gridded | yes from A01 |
| ASNOW | Accum Snow | 6hr acc | A06 | >0.0254 | ASNOW | StageIV | 6hr acc | A06 | >2.54 | Gridded | yes from A01 |
| ASNOW | Accum Snow | 6hr acc | A06 | >0.0508 | ASNOW | StageIV | 6hr acc | A06 | >5.08 | Gridded | yes from A01 |
| ASNOW | Accum Snow | 6hr acc | A06 | >0.0762 | ASNOW | StageIV | 6hr acc | A06 | >7.62 | Gridded | yes from A01 |
| ASNOW | Accum Snow | 6hr acc | A06 | >0.1016 | ASNOW | StageIV | 6hr acc | A06 | >10.16 | Gridded | yes from A01 |
| ASNOW | Accum Snow | 6hr acc | A06 | >0.1524 | ASNOW | StageIV | 6hr acc | A06 | >15.24 | Gridded | yes from A01 |
| ASNOW | Accum Snow | 1hr acc | A01 | >0.0127 | W03I_NONE | WPC | 1hr acc | A01 | >0.5 | Gridded | no |
| ASNOW | Accum Snow | 1hr acc | A01 | >0.0254 | W03I_NONE | WPC | 1hr acc | A01 | >1.0 | Gridded | no |
| ASNOW | Accum Snow | 1hr acc | A01 | >0.0508 | W03I_NONE | WPC | 1hr acc | A01 | >2.0 | Gridded | no |
| ASNOW | Accum Snow | 6hr acc | A06 | NA | ASNOW | WPC | 6hr acc | A06 | >0.5 | Gridded | no - NOT AVAILABLE IN HRRRTLE grid |
| ASNOW | Accum Snow | 6hr acc | A06 | >0.0254 | W06I_NONE | WPC | 6hr acc | A06 | >1.0 | Gridded | yes from A01 |
| ASNOW | Accum Snow | 6hr acc | A06 | >0.0508 | W06I_NONE | WPC | 6hr acc | A06 | >2.0 | Gridded | yes from A01 |
| ASNOW | Accum Snow | 6hr acc | A06 | >0.0762 | W06I_NONE | WPC | 6hr acc | A06 | >3.0 | Gridded | yes from A01 |
| ASNOW | Accum Snow | 6hr acc | A06 | >0.1016 | W06I_NONE | WPC | 6hr acc | A06 | >4.0 | Gridded | yes from A01 |
| ASNOW | Accum Snow | 6hr acc | A06 | >0.1524 | W06I_NONE | WPC | 6hr acc | A06 | >6.0 | Gridded | yes from A01 |
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Initial evaluation will include: