

# 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:scf: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

**Initial evaluation will include:**