

AWC 2018 CIP RAPv4 Changes

Instructions to Incorporate Changes

1. Modify Grib2toMdv.wrf_rr_ncep param file to read APCP1Hr. You will need to change the following:

```
param = "CICE",
```

to instead say

```
param = "CIMIXR",
```

and you will have to add the following input item to output_fields:

```
{
  param = "APCP1Hr",
  level = "SFC",
  mdv_name = "APCP",
  units = NO_CHANGE,
  upper_range_limit = 100.0,
  lower_range_limit = 0,
  encoding_type = ENCODING_FLOAT32,
  qc_default_type = UNKNOWN_VALUE,
  qc_default_value = 0,
  vert_level_min = -1,
  vert_level_max = -1,
  vert_level_dz = 1
},
```

2. Modify the Hybrid2Pressure.wrf_rr_ncep param file to pass through APCP. Change this code:

```
include_input_field_names = {
  "CIN",
  "ACPCP",
  "NCPCP",
  "CAPE"
};
```

to

```
include_input_field_names = {  
    "CIN",  
    "ACPCP",  
    "APCP",  
    "NCPCP",  
    "CAPE"  
};
```

3. Modify the createModelMetars.cip param file to read APCP instead of NCPCP. Change the following:

```
ncpcp = "NCPCP1Hr"
```

to

```
ncpcp = "APCP"
```

4. Modify the CipAlgo.wrf_rr_ncep param file to use blended metars again. Change the following:

```
metar_info = { "METAR", "mdv/metar_mapper", 7200, "CLD_BASE_HGT",  
    "CLOUD_COVER", "DIST_TO_CC", "DIST_TO_ZL", "DIST_TO_ZR", "DIST_TO_I  
P", "DIST_TO_RN", "DIST_TO_SN", "DIST_TO_DZ" };
```

to

```
metar_info = { "METAR", "mdv/metar_blend", 7200, "CLD_BASE_HGT",  
    "CLOUD_COVER", "DIST_TO_CC", "DIST_TO_ZL", "DIST_TO_ZR", "DIST_TO_I  
P", "DIST_TO_RN", "DIST_TO_SN", "DIST_TO_DZ" };
```