

June 2017 work log

Activities for week of June 12, 2017

- WRF Workshop all week
- Starting work on Observations/OBSPROC talk
 - Combined with user question, this inspired me to finish major update of LITTLE_R help page <http://www2.mmm.ucar.edu/wrf/users/wrfda/OnlineTutorial/Help/littler.html>
 - Now contains detailed information on which fields are mandatory/optional for each observation type
- WRFHELP emails
 - Helped user from Kalinga Institute of Industrial Technology, India, with WRFPLUS compilation problem

Activities for week of June 19, 2017

- PTO Tuesday morning
- Regtest
 - Starting work on a new regression test to cover uncovered capabilities:
 - GENBE CV6
 - GPSRO in bufr format
 - SSMIS radiance
 - Discovered that there are not radiance_info files for DMSP-17 and 18, just 16. Will copy the existing file to cover 17 and 18 since the instrument is identical
- Still working on obs talk
- WEB
 - Finished up some details on new LITTLE_R page
 - Added landing page for downloading PREPBUFR2LITTLER converter:
- WRFHELP emails
 - Answered email from Gerard Hesselmans (Netherlands govt) about humidity observations being silently rejected
 - Helping user from NC State running cycling system on Yellowstone

Activities for week of June 26, 2017

- PTO Friday
- Tested different GEN_BE BIN_TYPE options since they have never been tested before. They all work, and all produce different results, so I'll call that a pass.
- Finished up testing new GEN_BE option for missing input data
- Regtest
 - Continuing work on new regression test; running into problem with DMSP data
- **Finally** finished obs talk, moving on to verification talk.
- WRFHELP emails
 - Helped user from Wuhan university in assimilating GPSZTD obs
 - Replied to user trying to use WMO BUFR SEVIRI files
 - User from NC State was using restart files instead of output which caused the WRFDA failure...the error occurs way later in the executable than it should have!
 - Replied to user from Georgia Tech regarding a few different topics:
 - running into error with cu_physics=6 (Tiedke scheme) for 4DVAR; advised them to switch to cu_physics=1 since impact should be small and error may be hard to solve
 - Helped using length and variance scaling parameters for cloud_cv options
 - Replied to user from Scripps Institution of Oceanography (University of California, San Diego) asking for advice about different BIN_TYPE options in WRFDA
- WEB
 - Minor fixes to LITTLE_R help page and PREPBUFR2LITTLER converter