July 2017 work log

Activities for week of July 3, 2017

- PTO Monday, holiday Tuesday
- TUTORIAL
  - Finished up talks, slide book, submitted to Kris
  WRFHELP emails
    - Helped user from University of Utah (Junkai Liu) with runtime errors with 4DVAR radar assimilation
    - Replied to user from Georgia Tech (Liao-Fan Lin) asking for some specifics about why certain variables are and are not updated by WRFDA
    - Replied to user from University of North Dakota (Nikki Carson) who was using the wrong RDA data set for assimilating data
- Pull requests:
  - #267 Make lanczos eigenpair filename a namelist option https://github.com/wrf-model/WRF/pull/267
  - #268 Gen be allow missing data https://github.com/wrf-model/WRF/pull/268
- Started work on getting WRFDA to quit gracefully if given a restart file
- Did some experimenting to get realtime system running again. Needs more work.

Activities for week of July 10, 2017

- Retreat Thursday/Friday
- Regtest
  - Ran on a few different platforms that hadn't been updated in a while
- TUTORIAL
  - Started web page for classroom exercises http://www2.mmm.ucar.edu/wrf/users/wrfda/Tutorials/2017_July/
  - Compiled code (3DVAR, 4DVAR, WRFPLUS) on classroom computers
  - Tested up through basic exercises (OBSPROC, 3DVAR), updated header image, menus, schedule
- WEB
  - Updated users guide (see below)
  - Major updates to FAQ: several new sections, new questions/answers, updated a few old ones
  - Initial updates to tutorial classroom pages
- WRFHELP emails
  - Replied to user from University of North Dakota (Nikki Carson) asking about LITTLE_R format data sets
  - Replied to user from University of Maryland (Will Miller, regular user) about namelist issue
  - Replied to user from Indian Institute of Space Science and Technology (Deepak Gopalakrishnan) asking for some details about WRFPLUS physics from Jimy
- USERS GUIDE
  - Added several more paragraphs about the procedure for updating boundary conditions in the context of cycling
  - Add namelist options for null echo assimilation to that section for extra clarity
- Started "Known problems" wiki page; perhaps we should keep this updated internally
- In coordination with Dave and Michael Duda, started list of changes I'd like to make (or have others make) for the WRFV4 release: https://github.com/wrf-model/WRF/wiki/WRFV4:-Major-changes-and-cleanup-proposals
- Updated WRFDA User Groups Lists with a few more US and India users
- Finished up work on getting WRFDA to quit gracefully if given a restart file, opened pull request
- Began dialogue with CISL (coordinating with Dave Gill) to finally get them to resolve some of the testing problems on Cheyenne