

# Project Scoping and Milestones for the Extended Flight Level Dataset

**First Objective: Deliver the Flight Level Dataset (1999-2012) to RPI Member Companies by February 1, 2014**

**Breakdown of tasks:**

- **Dataset tasks:**
  - **Determine what additional data readers need to be written for 1999-2009 files.**
    - Need to write reader for USAFR ASCII text formats prior to 2005 (highest priority). **DONE 09 February 2014**
    - Need to write reader for NOAA ASCII text formats prior to 2005 (next highest priority). **DONE 09 February 2014**
    - Need to check reader for NOAA NetCDF files prior to 2008. **DONE 09 February 2014**
    - Need to write reader for standard tape format (mostly 2005 and 2006). **DEFERRED**
  - **Finalize data file structures for the dataset products.**
    - Will the Level 1 and Level 2 data be written into the same file, or will these be kept as separate files? **A: They will be kept as separate files. All of the data will be written together into a Level 3 data file.**
    - Decide which variables to include in the final dataset product. **A: Everything.**
    - Add metadata for all variables in L2 and L3. **UPDATE: metadata will only be added for L3 output. L2 output will be considered internal and not a releasable dataset product.**
  - **Download data files for 1999-2004.** **DONE 29 January 2014**
  - **Finish documentation.**
  - **Step 1:** Complete L1 data processing for 1999-2012. **DONE 10 February 2014 – includes 1997-2012.**
    - **Data rescue is needed for several storms in 1999 - UPDATE 03 March 2014: HRD has provided 10-second files for most of these flights now.**
    - **Track files are needed for many storms 1997-2001- UPDATE 03 March 2014: HRD has now provided tracks for some storms in 2001.**
  - **Step 2:** Create earth relative plots for 1999-2012; do visual QC on these. **DONE 28 March 2014: QC plots have been made for 1997-2013. Christopher should finish QC'ing them in the next couple days.**
  - **Step 3:** Finish all L2 parsing for 1999-2012. **DONE 28 March 2014: The parsing has been run for 2001 - 2013. Storms prior to 2013 do not have .trak files yet.**
  - **Step 4:** Finish all L3 data file creation (with good radial legs) for 1999-2012. **DONE 02 April 2014: The radial output has been run for all storms with .trak files for 2001 - 2013. Some additional changes to the binning will likely be made, and metadata added.**
  - If time permits also process 2013 and years prior to 1998. **DONE 28 March 2014: Steps 1-3 have now been processed for 1997-1998 and 2013, expanding on the original range of years.**
- **Other tasks:**
  - Set up the flight portion of website for RPI members to access. **UPDATE: the registration page is now set up and working. This section still needs some general documentation.**
  - Work on interface to allow users to pull up the individual data for a particular storm.
  - Post quality control plots and other analyses.