

November 19, 2010 Conference Call Notes

Provided by: Steve Keighton, SOO - Blacksburg, VA (RNK)

Research topics: The call was almost exclusively devoted to a presentation by Blair on work he and others at GSP have been doing on analysis of the Froude # upstream of the NC mtns during NWFS events. This has been done utilizing a Smart Tool in GFE which calculates Froude # from various model initial analysis through the 950-850mb layer. They looked at 15 NWFS events from last winter season (2009-10). Finding that the average Froude # for NWFS is higher than the seasonal average, and there appears to be some relationship with the higher values and more significant events. Also a diurnal variation, and further analysis may be done to investigate relationship with heavier rates from banding or cellular convection and these variations. No magic number since it depends heavily on model resolution. Also, this obviously depends on average barrier height and orientation that is plugged in for analysis area, so would need to be configured differently in different parts of the Appalachians. The presentation file was emailed to everyone before the call, and Blair can probably add this to our Google sites page as well.

Field project plans: No time for anything to be reported on the call, but from an email sent by Doug Miller, here's the latest on the UNC-A upper air field program:

Just to let you know that we're up and ready for launches at the Warren Wilson College campus. As usual, the data will be plotted [here](#), where you'll find the correct lat/lon/elevation for the WWC campus location shown in today's test JPEG title plot (the lat/lon/elevation have not yet been corrected in the test text file as these have to be re-programmed in the Digicora unit).

Also, in an email from Baker, there is good news about observational equipment at App State, including even potential for an MRR, but will let Baker brief specifics verbally on a future call. Otherwise, no new progress to report on the NWFS categorization work that Steve K, Larry, Doug, and Baker have begun.

Next call: Trying to schedule this via Doodle calendar, but possible dates include Dec 10, 16, or 17th (all 9am).