

Weather discussion email list

From: Weather discussion email list
Sent: Wednesday, September 4, 2019 6:32 PM
To: MAP@LISTSERV.ALBANY.EDU
Subject: Re: Forecast uncertainty in TC Dorian's turn to the north

As if discussing and communicating hurricane forecasts is not difficult enough...

<https://www.washingtonpost.com/weather/2019/09/04/president-trump-shows-doctored-hurricane-chart-was-it-cover-up-alabama-twitter-flub/>

On Wed, Sep 4, 2019, 3:28 PM Carr, Frederick H. <fcarr@ou.edu> wrote:

There are a lot more aircraft data than just TAMDAR, which come from regional airlines, mostly in the U.S. - e.g., ACARS, AMDAR, etc. which number in the thousands per day. To add to what Daryl wrote, one can look at all the data sources for, e.g., the GFS, at

<https://www.nco.ncep.noaa.gov/pmb/nwprod/realtime/gfs/t12z/index.shtml>

Just click on the boxes to get the daily counts. To get the hourly counts, go to <https://www.nco.ncep.noaa.gov/pmb/nwprod/realtime/gfs/t12z/index.summary.shtml>

To see what all the acronyms are, go to

<https://www.nco.ncep.noaa.gov/pmb/nwprod/realtime/index.bufrdump.shtml>

This latter list gives you an idea of all the data types NCEP has to deal with (ingest, format, QC, thin, assimilate, etc.) every day - not a trivial task!

Fred

On Sep 4, 2019, at 2:52 PM, Daryl Kleist - NOAA Federal <000001119109b86c-dmarc-request@LISTSERV.ALBANY.EDU> wrote:

TAMDAR data is operationally assimilated into the RAP/HRRR . The data is not actively assimilated (monitored only) in the other operational systems, including the GDAS/GFS.
Daryl Kleist (NOAA/NWS/NCEP/EMC)

On Wed, Sep 4, 2019 at 3:16 PM Tom Hamill <0000007cebfaae79-dmarc-request@listserv.albany.edu> wrote:

From here:

<http://flyht.com/flyht-forges-weather-alliance-synoptic/>

FLYHT acquired the assets of Panasonic Weather Solutions ("PWS") from Panasonic Avionics

Corporation ("PAC") in October, this year (previously announced on [October 10, 2018](#)). The assets, based in Littleton CO, include TAMDAR, a unique proprietary sensor package that is now transforming weather forecasting, and a commercial aircraft installation base of more than 200 sensors which collect real-time weather data from a dozen airlines in North America, Europe and Southeast Asia. **The assets also include an existing contract with Synoptic, a data hub and contracting service that now licenses TAMDAR data for sub-license to NOAA (the National Oceanic and Atmospheric Administration). The NOAA contract is consolidated into this new agreement.**

... so I *think* they are being assimilated. Operational DA folks?

Tom

On 9/4/19 1:03 PM, Matthew Rosencrans - NOAA Federal wrote:

If those aircraft data are being assimilated..

On Wed, Sep 4, 2019 at 14:46 Tom Hamill <0000007cebfaae79-dmarc-request@listserv.albany.edu> wrote:

I am a bit surprised, as with all the aircraft ascents and descents and their temperature/wind profiles, it seems like the raob data would be largely redundant.

Tom

On 9/4/19 11:26 AM, Michael Brennan - NOAA Federal wrote:

Steve,

The last time there were sensitivity experiments done for the 06/18Z raobs were after the 2017 season, and it actually found a fairly positive impact on the GFS track forecasts for Maria, up to 20% at several forecast lead times. Of course, that was for a previous version of the GFS, so it would be good to have some additional tests done.

We try and identify synoptically relevant features for targeting using ensemble sensitivity analyses, but it would be great to do some tests for Dorian, to see how much of an impact the sondes, and the dropsondes from the G-IV had on the GFS.

Mike

On Tue, Sep 3, 2019 at 3:39 PM Stephen Keighton (NOAA Federal) <000000c2711407df-dmarc-request@listserv.albany.edu> wrote:

I've had those same questions Ron! For each event, the key part of the continent to better sample could be in entirely different locations, and would shift with time. I would be very curious to see NWP forecasts with these extra soundings removed compared

to them included, but my guess is that has been done at least for some of these events (I just haven't seen those presented). I can tell you we're going through helium quickly here at RNK and sampling some pretty dry air (which could be very useful information for the 06 and 18Z cycles)!

Steve

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Best Regards,
Matt

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Sent from Gmail Mobile, please excuse typos

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