

Disturbing results from a global GSI experiment

Aberson, S. D., 2010: Ten years of hurricane synoptic surveillance (1997-2006), *Mon. Wea. Rev.*, accepted.

This is the result of ten years of data-denial (OSE) experiments using the operational NOAA global model (now GFS).

Similarly, I ran an OSE using the 2008 version of the model from late August to early October, encompassing Atlantic and T-PaRC missions.

Sanity check

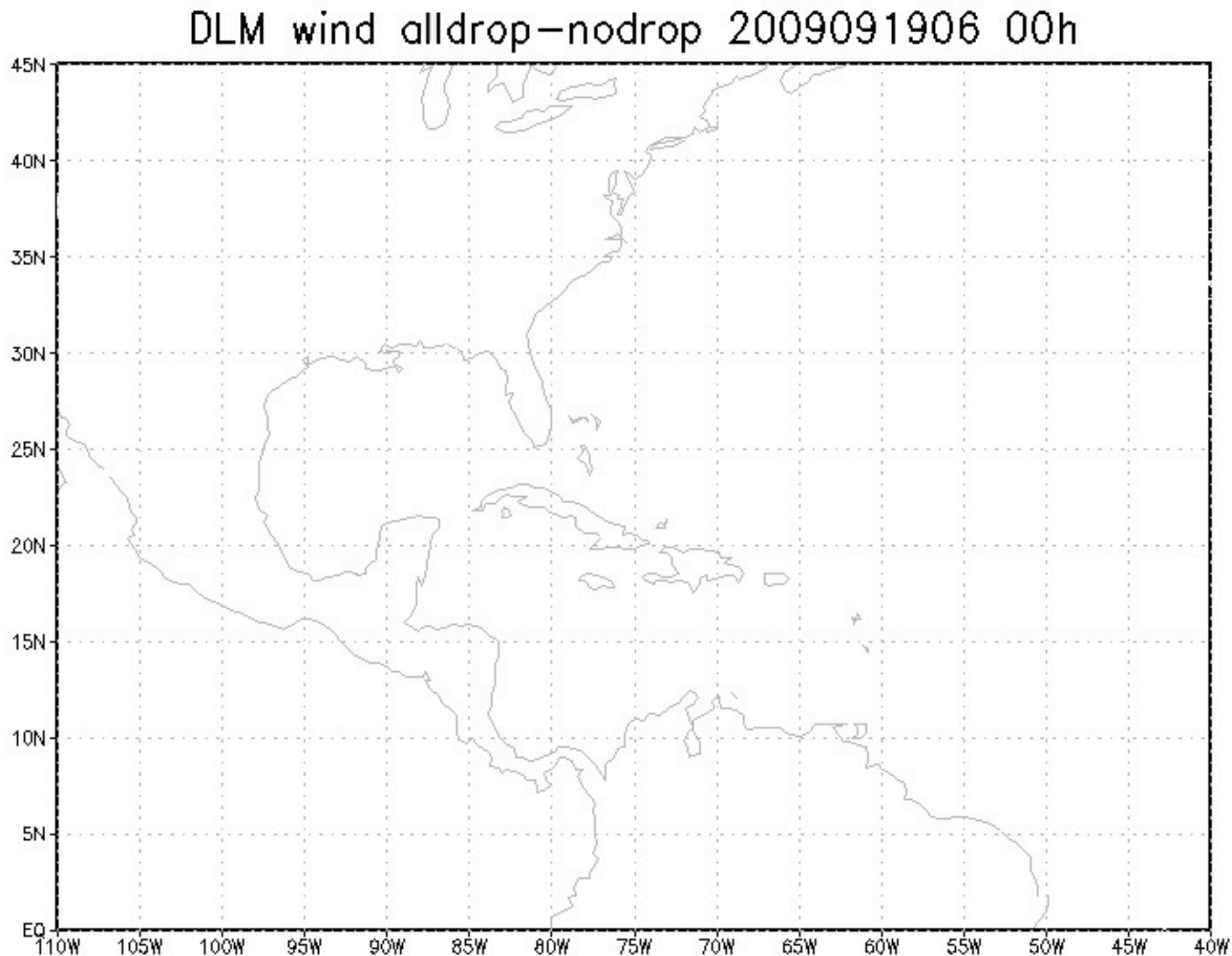
Each year, I have started by getting the current operational system from NCEP.

I make a test run for a date with no sondes to make sure I am getting nearly identical analyses and forecasts. They will not be identical because the system is not bit-reproducible and I am using a different computer (different number of processors) than operations.

The only difference is in the removal of dropwindsonde data globally.

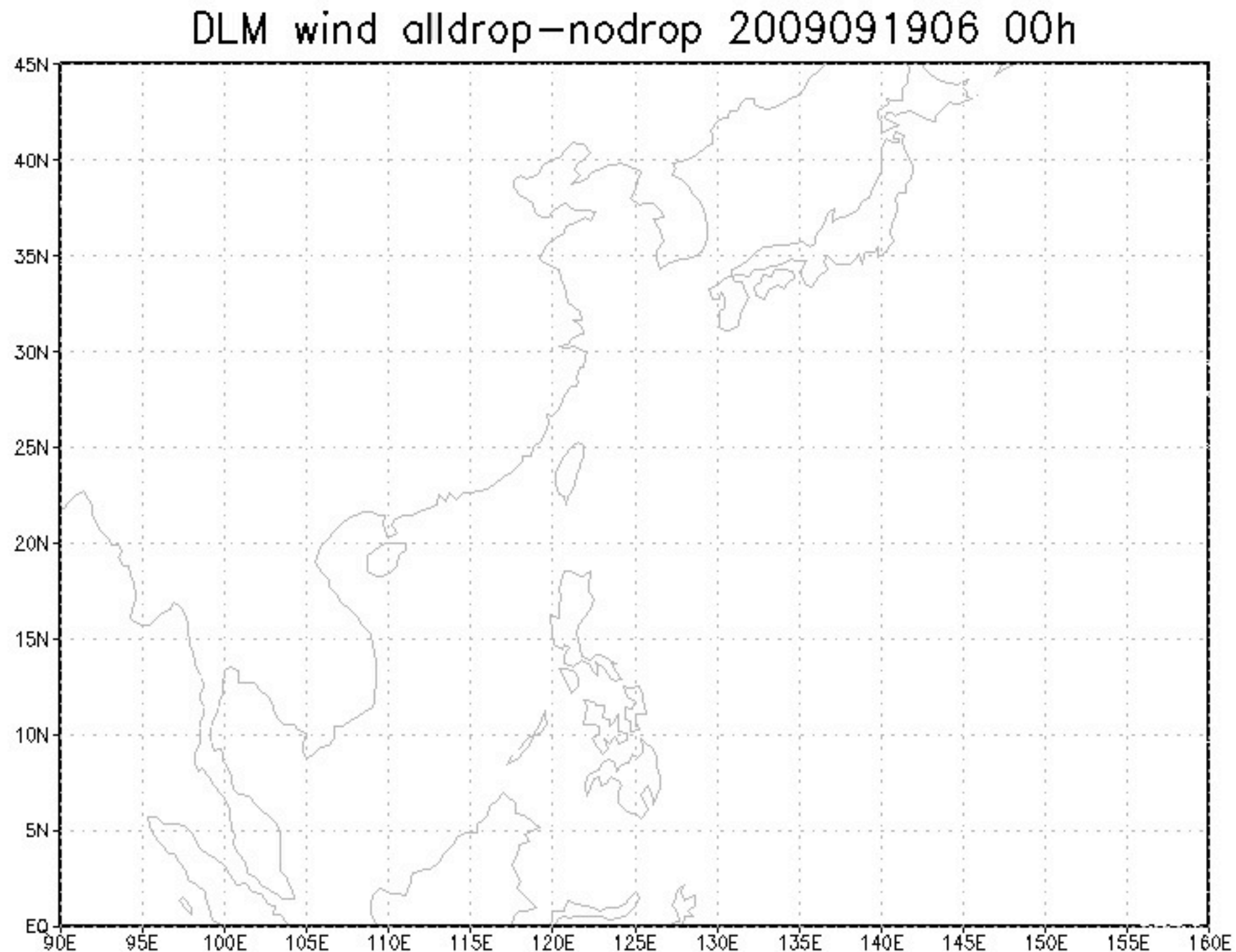
2009 Sanity check

Atlantic basin: no differences in DLM wind



2009 Sanity check

Western Pacific basin: no differences in DLM wind



Success! I reproduce
operations!

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[except for the 5 m/s DLM wind speed differences in the southern seas.]

