



RTMA/URMA Overview

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RTMA/URMA - Current Status

RTMA/URMA v2.5 ---> Code freeze Dec. 19

- Expand CONUS domain westward 450 km (OPC)
- Improved ceiling analysis via use of HRRR background
- Adding precip. to PR and AK URMA
- 15 min RU-RTMA (CONUS)

- FAA Project
- Support Helicopter Emergency Medical Services (HEMS) and General Aviation
- Primary focus: analysis of visibility and ceiling
- Surface pressure, 2 m temperature, 2 m moisture, 10 m wind speed
- ~20 min latency



RTMA/URMA - Short Term Ob Fixes

- METAR decoder dictionary updated on November 22nd
 - *Addresses observation location issue* ← **SOO recommendation item**
 - Plan to update this list ~quarterly with missing stations
 - Discussion underway with obs group at NWSHQ on proper source, some details to work out
- SDM-edit list enhancement to include mesonets (Spring 2017)
 - Ability to selectively reject temperature/moisture/wind/pressure observations in real-time
 - Capability already exists with METARs and most other surface data
 - No more waiting until upgrade/handoff time to change reject lists (hopefully)
- Clarus Quality Control
 - Comprehensive, station specific QC that RTMA currently lacks
 - To be implemented at MADIS in 2017 (hopefully)
 - Quality control marks will carry over from MADIS ← **SOO recommendation item**
 - More info/documentation [here](#).



RTMA/URMA - Looking Forward

- Re-prioritizing development timelines to steadily address field concerns while maintaining proper developments + support for NBM
- RTMA/URMA v2.6 (code freeze May 2017, implement Aug./Sept 2017)
 - Expand use of buddy check algorithm (only applied to T now)
 - GLERL obs adjustment
 - Add analysis of significant wave height + max/min RH
 - Add unified terrain for OCONUS
- RTMA/URMA v2.7 (code freeze Nov. 2017)
 - Improve estimate of analysis error
 - Introduce site-specific observation QC methods (e.g. bias correction)
 - Add analysis of MSLP
 - Use mesonet visibility obs
 - 10 min RU-RTMA

SOO recommendation items



RTMA/URMA - Looking Forward

- Development staffing is being increased by an additional FTE
- RTMA/URMA benefits substantially from engagement with the field
 - Alerts developers to important issues
 - Effective communication of development priorities - and the adjustment of priorities
- Feedback available through our listserv
(aor-rtma@infolist.nws.noaa.gov) and/or [VLab page](#)

Thanks!