CGMS-39 NOAA-WP-34
29 August 2011
Agenda Item: WGII/1
Discussed in WGII

NOAA/NESDIS' INTEREST IN THE EUMETSAT NOWCASTING SATELLITE APPLICATION FACILITY'S (NWC SAF) ATMOSPHERIC MOTION VECTOR (AMV) PORTABLE SOFTWARE

This paper discusses NOAA/NESDIS' interest in the EUMETSAT NWC SAF's Atmospheric Motion Vector portable software package and has been prepared in response to the following CGMS 38 Recommendation:

Recommendation 38.15: CGMS operators are invited to express their interest in the portable AMV software package from the EUMETSAT 'Nowcasting SAF' for testing and internal comparisons (Due: CGMS 39)

NOAA/NESDIS' Interest in the EUMETSAT Nowcasting Satellite Application Facility's (SAF) Atmospheric Motion Vector (AMV) Portable Software Package

Jaime Daniels
NOAA/NESDIS, Center for Satellite Aplications and Research (STAR)
IWWG Co-Chair

1 DISCUSSION

NOAA/NESDIS is aware of the AMV portable software package developed and maintained by the EUMETSAT Nowcasting Satellite Application Facility (NWC SAF). NOAA/NESDIS does have an interest in obtaining this AMV software package for many of the same reasons that are outlined in the CGMS-38 working paper, EUM-WP-42. More specifically, this AMV software package presents an opportunity for NOAA/NESDIS AMV algorithm experts to increase their collaborations with AMV algorithm experts not only at EUMETSAT and the NWC SAF AMV, but also with AMV algorithm experts at the other satellite AMV processing centers or universities. It is envisioned that such collaboration could involve sharing and joint testing of new algorithm approaches as well as inter-comparisons of output obtained from NOAA/NESDIS' and NWC SAF AMV algorithms. A shared goal of such collaborations would be to further improve the performance and utility of operationally derived AMVs.

A good example of potential collaboration that comes to mind is sharing of algorithm approaches and data that would allow for inter-comparisons between EUMETSAT's new CCC AMV height assignment scheme (Borde and Oyama, 2008) that was recently implemented in the NWC SAF AMV software and NOAA/NESDIS' new AMV algorithm it developed for its future GOES-R Advanced Baseline Imager (Daniels, et al, 2010). It may be possible to share pieces of AMV algorithm codes and data for purposes of collaborative testing, improved understanding, and future algorithm enhancements.

2 REFERENCES

Borde R., and R. Oyama, 2008, A Direct Link between Feature Tracking and Height Assignment of Operational Atmospheric Motion Vectors, Ninth Int. Winds Workshop, Annapolis, USA.

Daniels, J., W. Bresky, S. Wanzong, C. Velden, H. Berger, 2010: GOES-R Advanced Baseline Imager (ABI) Algorithm Theoretical Basis Document For Derived Motion Winds, GOES-R Program Office, www.goes-r.gov

Forsythe, M and J. Daniels, 2010, Summary of the 10th IWW discussion on development of a portable AMV processing software package, CGMS-38 EUM-WP-42.