

IWW10 Charge to working groups

WG1: Methods - chaired by Régis Borde and Steve Wanzong WG2: Data assimilation - chaired by Lars-Peter Riishojgaard and Iliana Genkova



Charge to working groups

IWWG feedback (WG1 and 2)

- 1.1 Thoughts on IWWG web site
 - a. Format and content
 - b. Suggestions for improvements
 - AMV derivation information from all centres
 - NWP tab
 - Training tab
 - MISR and hyperspectral products pages
 - Earlier IWW proceedings online
 - Review of objectives
 - More resources for collaborative projects e.g. information on how to take part in inter-comparison, links to results etc.
 - Others?
- 1.2 Feedback on IWW10 meeting format, more plenary discussions good or bad?



- Website considered useful, few specific recommendations for improvements
 - Needs to be widely visible if purpose is to advertise IWWG and its work; links from JCSDA and other organizations
- Participants in favor of new Workshop format with additional plenary discussions during meeting
 - Leave more time for questions/discussion in connection with talks
 - Should we charge someone with leading off the discussion in a more formal way?



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3.1 Treating winds as layers (CGMS-37, R37.20)

- a. Who is investigating?
- b. How best to set the layer width?
- c. Should the layer be centred or offset from assigned pressure?

3.2 Other NWP improvements(CGMS-37, R37.20)

- a. Individual observation errors (e.g. Met Office IWW9)
- b. Allowing for correlated error in assimilation (ECMWF talk)
- c. Other ideas?

3.3 AMV impact in NWP (CGMS-37, R37.20)

- a. Share results of adjoint and/or data denial studies
- b. Further coordinated efforts? Focus on next WMO Impact Workshop 2012 (held every 4 yr)
- c. What verification metrics to use?
- 3.4 More centres contributing to NWP SAF AMV usage pages
- 3.5 Mesoscale AMVs (CGMS-37 R37.20, discussed in PD3)



- 3.1; Met Office, ECMWF (and/or IG), CIMSS will continue investigation of layer winds
- 3.2
 - Met Office (and perhaps ECMWF) will continue investigating individual obs errors; state-dependent temperature errors could be used to generate state-dependent height assignment errors
 - ECMWF will work on correlated obs errors



- 3.3 Broad support for coordinated impact experiments targeted for completion for 11th IWW and 6th WMO GOS Impact Workshop, both during first half of 2012
 - Three-month data denial experiments desired (but we will take what we can get)
 - Common definitions of observation classes, regions, diagnostic quantities, etc.
 - Adjoint sensitivity where implemented
 - Resolution?
 - ECMWF, Met Office, JCSDA/NCEP, DWD, JMA, Meteo-France (and others?) will coordinate on period and other details via email during the coming weeks



- 3.4 Met Office open to adding usage information from non SAF members
 - JCSDA, JMA, EC will provide their information to NWP SAF (MF)



NWP SAF AMV monitoring feedback (WG1 and 2)

- 5.1 Feedback on 4th analysis
 - a. Feedback on recent changes (buttons, investigations section)
 - b. Thoughts on development options:
 - Add Hovmoeller plots to monthly monitoring
 - Participation from other NWP centres (Low priority?)
 - Add real-time monitoring
 - Add summaries of AMV events e.g. derivation updates, bad days in monitoring
 - Page providing background to Met Office AMV system capabilities
- 5.2 Ideas for future investigations
 - Best-fit pressure statistics
 - Collaborative follow-up of specific features
 - Any requests?



- 5.1 Report considered useful
 - No specific recommendations for enhancement
- 5.2 Discussion about standing waves (tracking of features that do not move with mean flow); could be subject of future investigations



- 6.1 Thoughts on ongoing developments new map and scatter plots (similar to AMVs), more plots for ERS-2 and WindSat, more regional monitoring
- 6.2 Future design choices
 - a. Are there other types of plots you would like to see?
 - b. Are time-series of mean distance to cone useful given differences in normalisation?
 - c. Should we plot used data, all data, or both?
 - d. Add more plots from other NWP centres?



- 6.1 (Use NWP SAF to share information about data usage)
 - NRL has information on their website; will be made public (when?)
 - Information about Windsat usage requested
 - Discussion about polarization vs. horizontal resolution trade-off; input to post-EPS decision; no specific recommendation from WG2



7.1 Check status of plans to reprocess wind data. Encourage wide participation by producers.

7.2 Check what reanalyses are being run and when

7.3 Seek IWW10 support for scatterometer reprocessing (ERS-1/2, QuikScat and ASCAT).



- 7.1 and 7.2
 - ECMWF and EUMETSAT requesting EC FP7 funding for reprocessing observations for next major reanalysis
 - KNMI may reprocess scatterometer winds; currently no funding available
 - No current reprocessing plans in the US
- 7.3 Should IWWG formally endorse the idea of reprocessing all scatterometer observations?



8.1 Get update on future sources of surface wind data

- Metop
- Oceansat-2
- Impact of NPOESS cancellation on Windsat-type follow-on
- Seek IWW10 support to assist negotiations with SOA/CNSA and Roshydromet/Roscosmos for HY-2A, Meteor-M3
- Others?

8.2 Discuss priorities for post-EPS scatterometer – trade-offs may exist in obtaining more extreme winds (> 30 m/s by adding HH polarisation) or higher resolution (more power in VV polarisation).

- 8.3 Support and suggestions for inter-callibration
- 8.4 Experiences with SAF code, suggestions for improvements?



 8.1 WG2 suggests that the IWWG requests access to all space-based surface wind measurements in near real time



Charge to working groups

MISR / DWL / hyperspectral (WG1 and 2)

9. MISR

- a. What are the limitations/potential of MISR winds?
- b. What are the key issues to move towards operational use?
- c. Where should we focus future effort?
- d. Should we support constellation of MISR-like instruments?

10. DWL

- a. What are the latest plans for post ADM-Aeolus DWL missions?
- b. Plans to use DWL operationally and for validation....
- 11. Hyperspectral
 - a. Seek IWW10 support to continue effort to track single level derived moisture fields
 - b. Consider advantages/disadvantage and ways to evaluate following options:
 - track single level derived moisture fields
 - track features in radiance space, consider improved CSWV operators
 - assimilate clear sky radiances directly



- 9 (MISR)
 - Impact of MISR winds needs to be revisited in view of results shown at 10th IWWG and progress in LOS assimilation; JCSDA plans to do experiments
 - New 70 km product targeted
 - Little hope of getting MISR in near-time; experimental results will be useful for future mission
 - Should IWWG endorse future "MISR-like" missions for winds purposes?



- 10. ADM currently scheduled to launch late 2011
- 11. Should IWWG endorse a US hyperspectral GEO sounder for winds purposes?