

Visualisation in Meteorology Week

28 September – 2 October 2015



Programme

Monday 28 September

15th Workshop on Meteorological Operational Systems (MOS)

Chair: Stephan Siemen (ECMWF)

10:00-11:00	Registration and coffee	
11:00-11:20	Workshop opening address	Florence Rabier (ECMWF)
11:20-11:50	The role of visualisation at ECMWF	Stephan Siemen (ECMWF)
11:50-12:20	Visualisation of confidence in weather forecasts: ECMWF's users current and future plans for displaying valuable information produced by ECMWF ensemble forecasting system	Anna Ghelli (ECMWF)
12:20-12:40	Update on the work of MetOcean DWG	Chris Little (UK Met Office/OGC)
12:40-13:00	Products, weather and sea state forecasts provided by the CPTEC / INPE for 2016 Olympics	José Antonio Aravéquia (CPTEC/INPE)
13:00-14:00	<i>Lunch break</i>	

Session on web services and visualisation

Chair: Florian Pappenberger (ECMWF)

14:00-14:20	Experiences and challenges in the development of the JASMIN cloud service for the environmental science community	Philip Kershaw (STFC/RAL)
14:20-14:40	Real-time collaboration in web based visualisation	Ben Calton (Plymouth Marine Laboratory)
14:40-15:00	Visualisation in Copernicus Atmosphere Monitoring Service	Miha Razinger (ECMWF/Copernicus)
15:00-15:20	Visualisation of global floods - The Global Flood Awareness	Florian Pappenberger (ECMWF)
15:20-15:50	<i>Coffee break</i>	
Chair: Baudouin Raoult (ECMWF)		
15:50-16:10	Machine Learning without a PhD in statistics	Andrew Fryer (Microsoft Limited)
16:10-16:30	The new DWD forecast system, based on ICON and COSMO-DE	Thomas Hanisch (DWD)

16:30-16:50	MetOcean Data Server Brainstorm	Roope Tervo (FMI)
16:50-17:10	EUMETView - the EUMETSAT Image Gallery based on Web Map Services	Guillaume Aubert (EUMETSAT)
17:10-17:30	ecFlowUI - visualising complex work flows	Sándor Kertész (ECMWF)
17:30	End of day one	
Tuesday 29 September		
Session on data processing systems		
Chair:	Manuel Fuentes (ECMWF)	
09:15-09:30	Update on ECMWF's new BUFR decoder ecCodes	Shahram Najm (ECMWF)
09:30-09:50	Migration from Traditional Alphanumeric Codes (TAC) to Table Driven Code Forms (TDCF) at the German Weather Service	Daniel Lee (DWD)
09:50-10:10	CDO - Climate Data Operators	Ralf Mueller (MPI)
10:10-10:30	MIR - ECMWF's new interpolation package	Tiago Quintino (ECMWF)
10:30-11:00	Coffee break	
11:00-11:20	Agile retrieval of Big Data with EarthServer	Peter Baumann (Jacobs University and rasdaman GmbH)
Session on communicating forecasts through visualisation		
Chair:	Sylvie Lamy-Thépaut (ECMWF)	
11:20-11:40	Interactive 3D visualization of ECMWF ensemble weather predictions	Marc Rautenhaus (TU Muenchen)
11:40-12:00	Do location-specific forecasts pose a new challenge for communicating uncertainty?	Andrew Charlton-Perez (University of Reading)
12:00-12:20	How users drive us to make the complex understandable on Yr	Ingrid Støver Jensen (Norwegian Broadcasting Corporation - NRK)
12:20-12:40	Data visualisation for un-engaged audiences	Adam Nieman (Carbon Visuals)
12:40-13:00	Environmental visualisation using a Videowall	Guy Griffiths (University of Reading)
Lunch break		
13:00-14:00	2x 20 min sessions of 3D Weather Explorer (registration required Monday morning)	Michal Koutek (KNMI)
Joint session of MOS workshop and EGOWS - forecaster workstations		
Chair:	Stephan Siemen (ECMWF)	
14:00-14:20	What is EGOWS? 25 years of workstation development	Stephan Siemen (ECMWF)
14:20-14:50	Synergie-Next: Change processes and latest developments	Lisa Marchand and Hugo Vandeputte (Météo-France)
14:50-15:10	Where is Diana?	Alexander Bürger (Met Norway)
15:10-15:30	Web based NWP model management	Michal Weis and Jozef Matula (IBL)
15:30-16:00	Coffee break	
16:00-18:00	Exhibition of visualisation systems (Weather Room and Class Room) Please see map below for more details	

	Reception with drinks during exhibition from 17:00	
18:15	Coach to town centre	
19:30	Workshop dinner in Reading town centre	
Wednesday 30 September		
Joint session of MOS workshop and EGOWS - forecaster systems		
Chair:	Umberto Modigliani (ECMWF)	
09:30-09:50	Data analysis and visualisation with Metview	Iain Russell (ECMWF)
09:50-10:10	The NinJo user story	Sören Kalesse (DWD)
10:10-10:30	Smartmet II based warning system at the FMI	Mikko Visa (FMI)
10:30-10:50	Operational visualization process and tools of NWP output in KMA	Hyun Kyoung Lee (KMA)
10:50-11:20	Coffee break	
Chair:	David Richardson (ECMWF)	
11:20-11:40	Iris: A Python package for the analysis and visualisation of meteorological data	Philip Elson (Met Office)
11:40-12:00	Visualize the high resolution model output with 3-D Adaptive Resolution feature in the IDV	Yuan Ho (UCAR/Unidata)
12:00-12:20	A one-stop service hub integrating essential weather and geophysical information on a GIS platform	Kwun Wa Wong (Hong Kong Observatory)
12:20-12:40	GIS Applications in National Meteorological operational system	Huanping Wu (National Climate Center, University of Gothenburg)
12:40-13:00	ECMWF forecasts on the web - the ecCharts success story	Sylvie Lamy-Thepaut (ECMWF)
13:00	End of MOS workshop	
	Lunch break	
13:00-14:00	2x 20 min sessions of 3D Weather Explorer (registration required Monday morning)	Michal Koutek (KNMI)
Royal Meteorological Society - Seminar on Visualisation in meteorology		
14:00-14:10	Welcome/Introduction	William Lunnon (Royal Meteorological Society)
14:10-14:40	The role of visualisation at ECMWF	Stephan Siemen (ECMWF)
14:40-15:05	WOW- Visualising the weather you experience	Dom Lethem (Met Office)
15:05-15:30	The visualisation of ManUniCast	Jonathan Fairman (University of Manchester)
15:30-16:00	Coffee break	
16:00-16:25	Making better scientific figures	Doug McNeill (Met Office)
16:25-16:50	Visualisation at the Met Office	Neil Armstrong (Met Office)
16:50-17:15	A short personal history of weather visualisation	Chris Little (Met Office)
17:15	Discussion	
17:30	End of meeting	

Thursday 1 October

European Working Group on Operational meteorological Workstations (EGOWS)**Technical session**

09:15-09:40	20 years of success for Metview's modular architecture	Fernando li (ECMWF)
09:40-10:00	ECMWF's web infrastructure	Carlos Valiente (ECMWF)
10:00-10:20	Significant increases in model data volumes and other challenges for a meteorological visualization platform	Marcus Werner (DWD)
10:20-10:40	A forecast for CPU cores, memory and disks	Michal Weis and Jozef Matula (IBL)
10:40-11:10	Coffee break	
11:10-11:20	Code contribution for ECMWF software	Stephan Siemen (ECMWF)
11:20-11:30	Exploring possibilities for co-operation between developers	Stephan Siemen (ECMWF)

Working groups

11:30-11:45	Introduction to the working groups	Iain Russell (ECMWF)
11:45-13:00	1. Possibilities for co-operations 2. The role of GIS for the work of forecasters	
13:00-14:00	Lunch break	
14:00-14:20	Changes to ECMWF's grids in 2016	Paul Dando (ECMWF)
14:20-14:40	Modernisation of Forecasting Process Programme in AEMET	Angel Alcázar (AEMET)
14:40-15:00	Interoperability Through the use of OGC Standards	Peter Trevelyan (Met Office)
15:00-15:20	How to integrate processing functionality into WMS	Jürgen Seib (DWD)
15:20-15:45	Coffee break	
15:45-16:15	Discussion and conclusions for next meetings	Chair: Stephan Siemen (ECMWF)
16:15	Closure of EGOWS meeting	

Friday 2 October

http://external.opengeospatial.org/twiki_public/MetOceanDWG/MetOceanPlugFest2015**OGC MetOcean Plugfest**

09:30-09:45	Introductory notes	Stephan Siemen (ECMWF)
09:45-10:00	Aims of this plugfest	Chris Little (UK Met Office/OGC)
10:00-10:15	Discussion	Chair: Stephan Siemen (ECMWF)
10:15-10:45	Coffee break	
10:45-12:00	Start of plugfest	
12:00-12:45	Discussion - Conclusions and Recommendations	Chair: Stephan Siemen (ECMWF)
12:45	Plugfest closure	Stephan Siemen (ECMWF)
13:00	Lunch	

Exhibition of visualisations systems – Tuesday 16:00

