

ADM-Aeolus Science and CAL/VAL Workshop, ESRIN, Frascati, 10 -13 February 2015

Day 1 - Tuesday 10 February 2015

Time	Presenter	Company & Country	Abstract Title
09:00	Registration (open from day1 to day 3) / Magellan Reception		
10:30 - 11:00	Coffee Break		
11:00	Welcome and Introduction / Magellan		
	Chair: A. Elfving and R. Kakar		
11:00 - 11:15	Maurice Borgeaud	ESA - Head of the ESA Earth Observation Department "Science, Applications, and Future Technologies"	Welcome + Introduction
11:15 - 11:30	Anne Grete Straume / Angelika Dehn	ESA-ESTEC / ESA-ESRIN	Workshop general announcements
11:30 - 12:00	Lars Peter Riishoigaard	WIGOS Project Manager, WMO	Wind Measurements in the WMO Global Observing System
12:00 - 12:30	Sandrine Bony	Director of research CNRS, WCRP co-chair	The importance of wind observations to address challenges of climate research
12:30 - 13:00	Erland Källén	ECMWF / Aeolus MAG Chair	Scientific motivation of the Aeolus mission
13:00 - 14:00	Lunch Break / Canteen		
14:00	Aeolus Mission I / Magellan		
	Chair: F. de Bruin and O. Reitebuch		
14:00 - 14:20	Anders Elfving	ESA	The Aeolus wind lidar mission: technical status and latest results
14:20 - 14:40	Richard Wimmer	ADS-UK	The AEOLUS Mission – Upcoming satellite level industrial activities
14:40 - 15:00	Olivier Lecrenier presented by Jeremy Lochard	ADS-F	The ALADIN instrument and its on-ground characterization
15:00 - 15:30	Alessandro D'Ottavi	Selex ES	The Aladin lasers: qualification status and next steps
15:30 - 16:00	Coffee Break		
16:00	Aeolus Mission II / Magellan		
	Chair: W. Lengert and P. Flamant		
16:00 - 16:20	Uwe Marksteiner	DLR	Lessons learnt for Aeolus from the pre-launch validation campaigns with the A2D
16:20 - 16:40	Thomas Kanitz	ESA-ESTEC	Aeolus products overview
16:40 - 17:00	Fabio Buscaglione	ESA-ESRIN	Aeolus Ground Processing: data flow, dissemination to users and viewing tools
17:00 - 19:00	POSTER SESSION + BEAT DEMO / James Cook		
	Icebreaker		

Day 2 - Wednesday 11 February 2015

	Presenter	Company & Country	Abstract title
09:00	Aeolus products, processing, data quality and scientific and operational exploitation / Magellan		
	Chairs: F. de Bruin		
09:00 - 09:30	Angela Benedetti	ECMWF	Assimilation of lidar data for atmospheric composition
09:30	Aeolus L1 product and calibration / Magellan		
	Chairs: F. de Bruin		
9:30 - 9:50	Oliver Reitebuch	DLR	Algorithm Baseline for Aeolus L1 Product and Calibration
9:50 - 10:10	Alain Dabas	Met France	Calibration processors of AEOLUS
10:10 - 10:30	Jeremie Lochar	ADS-F	Aladin - correction of the major contributors to the unknown bias
10:30 - 11:00	Coffee Break		
11:00	Wind session / Magellan		
	Chairs: H. Schyberg and A.G. Straume		
11:00 - 11:30	Ad Stoffelen	KNMI	Optimisation of Aeolus Spatial and Temporal Sampling
11:30 - 11:50	Jos de Kloe	KNMI	L2B wind processor, algorithms inputs and results
11:50 - 12:20	Michael Rennie	ECMWF	Aeolus related activities at ECMWF and simulation studies
12:20 - 12:40	Andreas Schaeffler	DLR	Characterizing the role of diabatic processes for the modification of mid-latitude Rossby waves and Jetstream winds
12:40 - 13:00	Nedjeljka Zagar	University of Ljubljana, Faculty of Mathematics and Physics	Assimilation and expected impact of Aeolus data in a mesoscale data assimilation system
13:00 - 14:00	Lunch Break		
14:00	Wind session (cont) / Magellan		
	Chairs: A. Stoffelen and A. Dehn		
14:00 - 14:20	Martin Dameris	DLR	Impact of Wind Changes in the Upper Troposphere Lower Stratosphere on Tropical Ozone
14:20 - 14:40	Iliana Genkova	IMLS	Investigating the complementary nature of satellite atmospheric motion vectors and Doppler lidar winds
14:40 - 15:00	Albert Hertzog	CNRS	The 2010 balloon experiment in the equatorial lower stratosphere and validation of the dynamics in ECMWF operational analyses
15:00	Aerosol and cloud session / Magellan		
	Chair: A. Benedetti and T. Kanitz		
15:00 - 15:30	David Winker	NASA	CALIPSO lessons learned: Aerosol retrieval aspects, CAL/VAL, and scientific applications
15:30 - 16:00	Coffee Break / Magellan reception		
16:00	Aerosol and cloud session (cont.) / Magellan		
16:00 - 16:20	Pauline Martinet	CNRM/GAME, Météo France & CNRS	ADM-Aeolus aerosol products
16:20 - 16:40	Vassilis Amiridis	NOA	The potential of ADM-Aeolus for filling the CALIPSO-EarthCARE climate record gap through LIVAS
16:40 - 17:00	Jaques Pelon; presented by Didier Bruneau	IPSL	Aerosol and cirrus cloud sensing with the UV HSRL LNG instrument : results from 2014 field campaign
17:00 - 22:00	Social Event		

Day 3 - Thursday 12 February 2015

	Presenter	Company & Country	Abstract Title
09:00	Cal/Val Introduction; instrument characterization, ground processing and scientific validation / Magellan		
	Chair: A. Dabas and F. Buscaglione		
9:00 - 9:20	Frank de Bruin	ESA-ESTEC	ESA, industry and science activities and contributions to the Aeolus commissioning phase
9:20 - 9:40	Phil McGoldrick	Airbus Defence and Space	Aeolus in Orbit Commissioning and Verification
9:40 - 10:00	Anne Grete Straume	ESA-ESTEC	Aeolus CAL/VAL Requirements and Implementation Plan
10:00 - 10:30	Henri Laur	ESA-ESRIN	The ESA experience with the exploitation phase of Earth Explorer missions
10:30 - 11:00	Coffee Break / Magellan Reception		
11:00	Cal/Val Proposals / Magellan		
	Chair: S. Ishii and D. Schuettmeyer		
11:00 - 11:20	Angelika Dehn	ESA-ESRIN	ESA's Sensor Performance Products and Algorithm activities during the exploitation phase of ADM-Aeolus
11:20 - 11:40	Mike Hardesty	University of Colorado	A US effort for Aeolus Calibration and Validation
11:40 - 12:00	George Emmitt	Simpson Weather Associates	USA airborne participation in ADM Cal/Val and lessons learnt from earlier satellite validation campaigns
12:00 - 12:15	Alain Dabas	MeteoFrance	French plans for Aeolus CAL/VAL
12:15 - 12:30	Oliver Reitebuch	DLR	Experimental Validation of Aeolus with the ALADIN Airborne Demonstrator
12:30 - 12:45	Ulla Wandinger	Leibniz Institute for Tropospheric Research	Validation of ADM-Aeolus L2 aerosol and cloud products employing advanced ground-based lidar Measurements (VADAM)
12:45 - 13:00	Arnaud Apituley	KNMI	Aeolus aerosol and cloud product validation approaches using the Cabauw Experimental Site for Atmospheric Research (CESAR) and EARLINET
13:00-14:00	Lunch Break / Canteen		
14:00	Cal/Val Proposals (cont) / Magellan		
	Chair: M. Hardesty and B Bojkov		
14:00 - 14:15	Svetlana Tsyro presented by Harald Schyberg	Norwegian Meteorological Institute	Integrated (emep model & arocom) approach for testing aeolus aerosol measurements
14:15 - 14:30	Michael Gausa	Andoya Space Center	Airborne and Lidar Validation of ADM Aeolus at ALOMAR (ALIVO ALOMAR)
14:30 - 14:45	Gerd Baumgarten	Leibniz-Institute of Atmospheric Physics	Aeolus Validation at ALOMAR and IAP using Doppler radar, Doppler lidar, and radiosondes: ALOVAL-IAP
14:45 - 15:00	Ronny Leinweber	DWD, Germany	Long term evaluation of Aeolus wind profiles at Lindenberg Observatory
15:00 - 15:15	Zhai Xiaochun	Ocean University of China	Validation and Calibration of ADM-Aeolus Using Ground-Based Lidars
15:15 - 15:30	Shoken Ishii	National Institute of Information and Communications Technology	Outline and plan of validation experiment for the Atmospheric Dynamic Mission-Aeolus
15:30 - 15:45	Sergey Khaykin	CNRS-LATMOS	Ground-based Rayleigh-Mie Doppler wind lidar: design, observations and proposal for Aeolus CAL/VAL
15:45-16:00	Coffee Break / Magellan Reception		
16:00	Cal/Val Proposals (cont) / Magellan		
	Chair: H. Körnich and S. Casadio		
16:00 - 16:15	Gert-Jan Marseille	KNMI	Validation of Aeolus by NWP model comparison
16:15 - 16:30	Harald Schyberg	Norwegian Meteorological Institute	MET Norway plans for contribution to calibration-validation and use of Aeolus winds
16:30 - 16:45	Franco Marengo	UK MetOffice	AEOLUS cal/val Activities of Interest to the Met Office
16:45 - 17:00	Martin Weissmann	LMU Munich	Validation and impact assessment of ADM-Aeolus observations in the DWD global modelling system
17:00-19:00	POSTER SESSION / James Cook		
	Drink		

Day 4 - Friday 13 February 2015

	Presenter	Company & Country	Abstract Title
09:00	Plenary discussion (Aeolus CAL/VAL Implementation Plan) / Magellan		
	Chairs: D. Schuettmeyer and A.G. Straume		
9:00 - 11:00	General discussion on Implementation plan and CAL/VAL organization based on seed questions		
11:00	Coffee		
11:30 - 12:30	Workshop wrap-up /Magellan		
	Chairs: F. de Bruin and E. Källén		
12:30	Lunch / Canteen		