



WMO AERONAUTICAL METEOROLOGY SCIENTIFIC CONFERENCE

*6 to 10 November 2017, Centre International de
Conférences, Météo-France, Toulouse, France*



PROGRAMME

All times Central European Time (UTC + 1 hour)

Last updated: 08 November 2017

AIRBUS

THALES





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MONDAY 6 NOVEMBER 2017

Time	Presentation	Presenter/Leading author	Co-authors
Registration opens at 1200 hours			
Opening of the Conference			
1400-1410	Opening by Host	Mr Jean-Marc LACAVE Chief Executive, Météo-France	—
1410-1420	Opening remarks by President of WMO CAeM	Mr Chi Ming SHUN President, Commission for Aeronautical Meteorology, WMO	—
1420-1430	Opening remarks by President of WMO CAS	Dr Oystein HOV President, Commission for Atmospheric Science, WMO	—
1430-1440	Opening remarks by ICAO	Mr Yong WANG Chief, Airport Operations and Infrastructure ICAO	—
1440-1450	Opening by WMO	Dr Xu TANG Director, Weather and Disaster Risk Reduction Department, World Meteorological Organization (WMO)	—



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Time	Presentation	Presenter/Leading author	Co-authors
Session 1 – Science underpinning meteorological observations, forecasts, advisories and warnings			
Session Chairs: Barbara BROWN, PW Peter LI , Herbert PUEMPEL, Chi Ming SHUN			
1450-1520	Keynote 1 The emerging MET capability to meet the future aviation needs	Mr Chi Ming SHUN President, Commission for Aeronautical Meteorology, WMO	—
1520-1550	Keynote 2 Future Aeronautical Meteorology Research & Development	Dr Matthias Steiner Director, Aviation Applications Program, Research Applications Laboratory, National Centre for Atmospheric Research	—
1550-1610	<i>Coffee/tea Break</i>		
Sub-Session 1.1 – En route phenomena			
1.1.1 – Ice crystal icing, and airframe icing research			
1610-1630	A High Ice Water Content (HIWC) Nowcasting Trial Exercise for Enhanced Situational Awareness and Decision-Making Support	Dr Julie HAGGERTY National Centre for Atmospheric Research (NCAR)	Rodney POTTS
1630-1650	The use of RDT in the HAIC project	Mr Jean-Marc MOISSELIN Météo-France	Christine LE BOT, Pierre RIEU, Amanda GOUNOU, Eric DEFER, Jos DE LAAT
1650-1710	Satellite Detection and Nowcasting High-altitude Ice Crystals	Dr Yin Lam NG Hong-Kong Observatory (Speaker Mr Kai Kwong HON)	HF LAW, JCW LEE, KK HON, LO LI, PW LI
1710-1730	Signatures of super-cooled liquid water drops in dual-polarization observations measured by ground-based radars	Ms Clotilde AUGROS Météo-France	Mathieu LECOCCQ, Sébastien RIETTE, Christine LE BOT, Nicolas GAUSSIAT



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Time	Presentation	Presenter/Leading author	Co-authors
1730-1900	Poster Session #1		
From 1900	Icebreaker Cocktail, Centre International de Conférences, Météo-France (Pre-registration required)		



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TUESDAY 7 NOVEMBER 2017

Time	Presentation	Presenter/Leading author	Co-authors
Session 1 continued – Science underpinning meteorological observations, forecasts, advisories and warnings			
Sub-Session 1.1 continued – En route phenomena			
1.1.1 – Ice crystal icing, and airframe icing research			
0900-0920	An operational geostationary satellite data product for detecting high ice water content	Mr Jos DE LAAT Royal Netherlands Meteorological Institute (KNMI)	JF MEIRINK, E DEFER, J DELANOË, F DEZITTER, A GOUNOU, A GRANDIN, J-M MOISSELIN, F PAROL, S TURNER, C VANBAUCE
Sub-Session 1.1 continued – En route phenomena			
1.1.2 – Turbulence research			
0920-0940	Turbulence forecasting with the ICON model @DWD: overview, cases and verification	Mr Tobias GOECKE Deutscher Wetterdienst (DWD)	Ekaterina MACHULSKAYA, Matthias RASCHENDORFER
0940-1000	Global aviation turbulence forecasting using the Graphical Turbulence Guidance (GTG) for the WAFS Block Upgrades	Dr Robert SHARMAN National Centre for Atmospheric Research (NCAR)	Jung-Hoon KIM, Claire BARTHOLOMEW, Tammy FARRAR
1000-1020	A clustering method for diagnosing turbulence from MADIS database observations and derived fields from a high resolution NWP model	Dr Juan SIMARRO GRANDE AEMET	Llorenç LLISO, Alfonso DE MIGUEL
1020-1040	Coffee/tea Break		
Sub-Session 1.2 – Wider Terminal Area			
1.2.1 – Significant convection research			



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Time	Presentation	Presenter/Leading author	Co-authors
1040-1100	The short-time forecasting and nowcasting technology of severe convective weather for aviation meteorological services in China	Dr Xinhua LIU National Meteorological Center of China Meteorological Administration	Bo YANG, Jie SHENG, Wenyuan TANG, YanCha CAO, Wenjian ZHU, Kanghui ZHOU and Yue YOU
1100-1120	Nowcasting thunderstorms for aeronautical end-users	Mr Jean-Marc MOISSELIN Météo-France	Céline JAUFFRET
1120-1140	Tracking and prediction of convective cells based on a lightning data	Mr Stéphane PEDEBOY Météorage	Paul BARNEOUD
1140-1200	Towards quantitative lightning forecasts with convective-scale Numerical Weather Prediction systems	Mr Olivier CAUMONT CNRM (Météo-France/CNRS)	É DEFER, J-P PINTY, C BOVALO, C BARTHE, S COQUILLAT, D LAMBERT
1200-1220	Panel discussion 1.1	Moderated by: Chi Ming SHUN (CAeM/P) Panelists: TBD	—
1220-1340	<i>Lunch Break</i>		
Sub-Session 1.3 – Aerodrome throughput			
1.3.1 – Wake vortex detection and prediction			
1340-1400	Frequent-output sub-kilometric NWP models supporting enhanced runway throughput and performance-based navigation	Mr Kai-kwong HON Hong-Kong Observatory	Pak-wai CHAN
1400-1420	Onboard Wake–Vortex Prediction Systems Employing Various Meteorological Data Sources	Mr Stephan KÖRNER DLR - Institut für Physik der Atmosphäre	Ingo SÖLCH, Frank HOLZÄPFEL, Fethi ABDELMOULA, Dennis VECHTEL



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<i>Sub-Session 1.3 continued – Aerodrome throughput</i>			
<i>1.3.2 – Fog/low visibility research</i>			
1420-1440	PARAFOG: a new decision support system for the airports to monitor and to predict radiation fog based on automatic LIDAR-ceilometer measurements	Mr Quentin LAFFINEUR Royal Meteorological Institute of Belgium	Martial HAEFFELIN, Juan-Antonio BRAVO-ARANDA, Marc-Antoine DROUIN, Aude LHUISSET, Jean-Charles DUPONT, Hugo DE BACKER
1440-1500	LANFEX: Understanding fog behaviour in a region of small hills	Mr Jeremy PRICE The UK Met Office (Speaker Léo DUCONGE)	T BERGOT, C LAC, I BOUTLE, D SMITH, L DUCONGE
1500-1520	Towards a three-dimensional prediction of fog on airports with the Météo-France operational forecast model AROME	Dr Alain DABAS Météo-France	Thierry BERGOT, François BOUYSSSEL, Yves BOUTELOUP, Frédéric BURNET, Christine LAC, Pauline MARTINET
1520-1540	<i>Coffee/tea Break</i>		
<i>Sub-Session 1.4 – Space weather research</i>			
1540-1600	Space weather observations, analyses and generation output data messages for aviation in Russia	Mr Vyacheslav BUROV Institute of Applied Geophysics, Rostokinskaya 9, Moscow Federal Service for Hydrometeorology and Environmental Monitoring	YP OCHELKOV
1600-1620	Space Weather Services for Aviation - Current Capabilities and Future Needs	Mr Robert RUTLEDGE NOAA Space Weather Prediction Center	—
<i>Sub-Session 1.5 – Atmospheric aerosols, volcanic ash research</i>			



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1620-1640	Improved aerosol forecasting during extreme events by data assimilation	Dr Laaziz EL AMRAOUI Centre National de Recherche Météorologique (CNRM), Météo- France	Bojan SIC, Mina BOULHDIR, Matthieu PLU
1640-1700	Development of an ensemble-based volcanic ash dispersion model for operations at the Darwin VAAC	Mr Rodney POTTS Bureau of Meteorology	Richard DARE, Mey MANICKAM, Alan WAIN, Meelis ZIDIKHERI, Chris LUCAS, Adele BEAR-CROZIER
1700-1720	Modelling and data assimilation of hazardous volcanic ash plumes in the chemical-transport model MOCAGE	Dr Bojan SIC Météo-France, CNRM	Laaziz EL AMRAOUI, Matthieu PLU
1720-1740	European ceilometer and lidar networks for aerosol profiling and aviation safety – the German contribution	Mr Werner THOMAS Deutscher Wetterdienst (DWD)	Ina MATTIS, Margit PATTANTYUS-ABRAHAM, Harald FLENTJE, Dörthe EBERT, Frank WAGNER, Carolin WALTER, Bernhard VOGEL



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WEDNESDAY 8 NOVEMBER 2017

Time	Presentation	Presenter/Leading author	Co-authors
<i>Session 1 continued – Science underpinning meteorological observations, forecasts, advisories and warnings</i>			
<i>Session 1.6 – Observation, nowcast and forecast of future needs</i>			
<i>1.6.1 – Advances in observing methods and use of observations</i>			
0900-0920	Automated Aircraft Observations: Their importance to Future Aviation Transportation Operations	Dr Ralph PETERSEN SSEC/CIMSS, University of Wisconsin - Madison	Brett HOOVER, Anne-Sophie DALOZ, Lee CRONCE, Tim WAGNER, Skyler WILLIAMS, Richard MAMROSH, Randy BAKER, Patricia PAULEY, Nancy BAKER
0920-0940	Remote-Ground based observations Merging Method for Visibility and Cloud Ceiling Assessment During the Night Using Data-Mining Algorithms	Dr Driss BARI Direction de la Météorologie Nationale	Abdelhak LEMKHENTER
0940-1000	Operational uses of satellite observations for aviation support: today and tomorrow	Dr Timothy WAGNER Cooperative Institute for Meteorological Satellite Studies (CIMSS) University of Wisconsin - Madison	Ralph A PETERSEN, Wayne F FELTZ
<i>1.6.2 – Seamless nowcast and numerical weather prediction, probabilistic forecast and statistical methods</i>			
1000-1020	Utilizing Radar and Satellite Based Nowcasting Tools for Aviation Purposes in South Africa	Mr Erik BECKER South African Weather Service	Morne GIJBEN, Stephanie LANDMAN, Bathobile MASEKO
1020-1040	<i>Coffee/tea Break</i>		



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1040-1100	Aviation Weather Hazards Nowcasting Based on Remote Temperature Sensing Data	Pr Mikhail KANEVSKY JSC "International Aeronavigation Systems Concern"	Nikolay BARANOV, Evgeny MILLER
1100-1120	Operational nowcasting systems in the framework of the 4-D MeteoCube	Dr Tatiana BAZLOVA IRAM	Nikolay BOCHARNIKOV, Alexander SOLONIN
1120-1140	Probabilistic weather hazard forecast guidance for transoceanic flights based on merged global ensemble forecasts	Dr Matthias STEINER National Centre for Atmospheric Research (NCAR)	Ken STONE, James PINTO, Matt STRAHAN, Randy BASS
1140-1200	Applying Statistical Tool CLIPER for Forecasting Visibility at Airports	Ms Jadran JURKOVIC Croatia Control ltd	Marko ZOLDOŠ, Igor KOS, Josip JURAS, Zoran PASARIĆ
1200-1240	Panel discussion 1.2	Moderated by: Ian LISK (CAeM/VP) Panelists: TBD	—
1240-1400	Lunch Break – Group photo		
Session 2 – Integration, use cases, fitness for purpose and service delivery			
Session Chairs: Dorothea BANSE, Jun RYUZAKI			
1400-1430	Keynote 1 MET-ATM integration	Mr Neil HALSEY Technical Officer, ICAO & Mr Peter LECHNER Chairman, Meteorological Panel, ICAO	—
1430-1500	Keynote 2 What ATM/Airline in the future need from MET?	Captain Mark HOEY General Manager Operations Cathay Pacific Airways	—



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Time	Presentation	Presenter/Leading author	Co-authors
<i>Sub-session 2.1 – In-cockpit & on-board MET capabilities</i>			
1500-1520	Aspects of weather information transfer to pilots	Mr Klaus SIEVERS IFALPA	—
1520-1540	Integration of weather forecast in the cockpit	Mr Florent BIRLING GTD	—
1540-1600	Automated in-situ Turbulence reports from Airbus aircraft	Mr Axel PIROTH Airbus	Anaïs MERMET
1600-1620	<i>Coffee/tea Break</i>		
<i>Sub-session 2.2 – Terminal Area and Impact-based forecast</i>			
1620-1640	Terminal Weather Event Detection and Advisory Concept	Mr Robert AVJIAN MITRE (Speaker Michael ROBINSON)	Matt FRONZAK
1640-1700	Translating Meteorological Observations into Air Traffic Impacts in Singapore Airspace	Mr Michael ROBINSON The MITRE Corporation	Craig WANKE, Sheng LIU, Clarence FOO
1700-1720	Probabilistic Winter Weather Nowcasting supporting Total Airport Management	Mr Heikki JUNTTI Finnish Meteorological Institute (FMI) (Speaker Mr Jaakko NUOTTOKARI)	Ari-Matti HARRI, Elena SALTIKOFF, Seppo PULKKINEN, Harri HOHTI, Rudolf KALTENBÖCK, Martin HAGEN
1720-1740	Data-driven influence model of weather condition in airport operational performance	Mr José Antonio FERNANDEZ MONISTROL Spanish Meteorological Agency - AEMET	Juan Simarro GRANDE, Esther Calvo FERNÁNDEZ, José Manuel CORDERO GARCÍA, Marcos Sanz BRAVO
From 1900	<i>Conference Dinner, Cité de l'espace, Toulouse</i> <i>(Pre-registration required)</i>		



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THURSDAY 9 NOVEMBER 2017

Time	Presentation	Presenter/Leading author	Co-authors
<i>Session 2 continued – Integration, use cases, fitness for purpose and service delivery</i>			
<i>Sub-session 2.3 – Collaborative decision-making, Air Traffic Flow Management, Network Management</i>			
0900-0920	The bridge from meteorological research to improved safety of air transport	Mr Jaakko Nuottokari Finnish Meteorological Institute (FMI)	—
0920-0940	Harmonized high quality weather forecasts - Weather doesn't know political borders	Ms Svenja KOOS Deutscher Wetterdienst (DWD)	Project Partners of SESAR Deployment Project 2015_068_AF5
0940-1000	Integration of Meteorological Data in the ATM System	Mr Dhipak LALLA Air Traffic and Navigation Services	Arthur BRADSHAW, Gaborekwe KHAMBULE, Albert MOLOTO
1000-1020	TOPLINK/ECOSystem: New Decision Support services to reduce MET impact on Aviation	Mr Daniel MULLER Thalès Air Systems	—
1020-1040	Collaborative Decision Making@CDG	Mr Michel LANDELLE Aéroports de Paris	Regis LACOTE, Jerome LAUFERON
1040-1100	<i>Coffee/tea Break</i>		
<i>Sub-session 2.4 – Trajectory-based operations (TBO), flight planning and user-preferred routing</i>			
1100-1120	WMO Aviation Research Demonstration Project (AvRDP) and the Seamless Trajectory Based Operation (TBO)	Dr PW Peter LI Hong Kong Observatory	—



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1120-1140	The WMO Aviation Research & Demonstration Project (AvRDP) at Paris-CDG airport	Ms Pauline JAUNET Météo-France	—



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1140-1200	The Remote Oceanic Meteorology Information Operational (ROMIO) Demonstration	Mr Eldridge FRAZIER Federal Aviation Administration (FAA)	Cathy KESSINGER, Tenny LINDHOLM, Jim OLIVO, Bob BARRON, Gary BLACKBURN, Bill WATTS, Rocky STONE, Desmond KEANY, Dale TYLER, T J HORSAGER
1200-1220	Integrated Wind and Turbulence Forecasts for Automated Flight Route Planning	Dr Jung-Hoon KIM NOAA/NWS/Aviation Weather Center (AWC)	Matt STRAHAN, Robert D SHARMAN
1220-1240	Flight Execution and Route Adaptation Considering Multiple Weather Hazards	Dr Manuela SAUER National Center for Atmospheric Research (NCAR)	Matthias STEINER, Robert D SHARMAN, James O PINTO, Thomas HAUF
1240-1400	Lunch Break		
<i>Session 2.4 continued – Trajectory-based operations (TBO), flight planning and user-preferred routing</i>			
1400-1420	User Requirements for En-route Hazardous Weather Information	Dr PW Peter LI Hong Kong Observatory	SY LAU
1420-1440	An illustration of the practical use of operational real-time geostationary satellite data for strategic and tactical flight planning	Dr Jos DE LAAT Royal Netherlands Meteorological Institute (KNMI)	J.F. MEIRINK
1440-1500	Recommendations on trajectory selection in flight planning based on weather uncertainty	Dr Philippe ARBOGAST Météo-France, CNRM	Jacob CHEUNG, Alan HALLY, Jaap HEIJSTEK
1500-1520	Climate-optimised aircraft trajectories based on advanced MET service for sustainable aviation	Dr Sigrun MATTHES DLR e.V., Institute of Atmospheric Physics	Volker GREWE



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Time	Presentation	Presenter/Leading author	Co-authors
1520-1600	Panel discussion 2.1	Moderated by: Jun RYUZAKI (CAeM/ET-ISA) Panelists: Dorothea BANSE, Chi Ming SHUN, ...	—
1600-1620	<i>Coffee/tea Break</i>		



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Time	Presentation	Presenter/Leading author	Co-authors
Session 3 – Impacts of climate change and variability on aviation operations and associated science requirements			
Session Chair: Sigrun MATTHES , Matt STRAHAN			
1620-1650	Keynote 1 Climate Impact on Aviation industry and MET support	Dr Herbert PUEMPEL Commission for Aeronautical Meteorology ET-ASC chair & Dr Frederique RIGAL Airbus SAS, Environmental Affairs	—
1650-1720	Keynote 2 Study on Regional Climate Impact on Aviation	Ms Rachel BURBIDGE EUROCONTROL, Directorate Pan- European Single Sky/Support to SES- related Policies, Environment & Climate Change	—
Sub-session 3.1 – Jet stream position and intensity and related phenomena			
1720-1740	Global Response of Clear-Air Turbulence to Climate Change	Mr Paul WILLIAMS University of Reading	Luke STORER, Manoj JOSHI
1740-1800	Aircraft observations and reanalysis depictions of trends in the North Atlantic polar front jet stream wind speeds and turbulence	Pr Joël TENENBAUM State University of New York (SUNY) Purchase	PD WILLIAMS
1800-1920	Poster Session #2		



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FRIDAY 10 NOVEMBER 2017

Time	Presentation	Presenter/Leading author	Co-authors
<i>Session 3 continued – Impacts of climate change and variability on aviation operations and associated science requirements</i>			
<i>Sub-session 3.1 continued – Jet stream position and intensity and related phenomena</i>			
0900-0920	Impact of Large-Scale Climate Variability to Long-Haul Flight Routes and Clear-Air Turbulence	Dr Jung-Hoon KIM NOAA/NWS/Aviation Weather Center (AWC)	Matt STRAHAN, Robert D SHARMAN
<i>Sub-session 3.2 – Extreme weather events at airports, changes to established scenarios</i>			
0920-0940	Climate change aspects of fog/smog occurrences at different low visibility ranges in Delhi Airport: Temporal change using general visibility 1964-2017 and Spatial changes within airport during 1989-2017 using multi-RVR data and linking them trends of Met parameters (RH, Temp, Wind)	Dr Rajendra Kumar JENAMANI India Meteorological Department	—
0940-1000	On variation of several climatological characteristics at aerodromes in the Russian Federation in 2001-2015	Dr Anna IVANOVA Hydrometeorological Research Centre of the Russian Federation Elena SKRIPTUNOVA	Elena SKRIPTUNOVA



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Time	Presentation	Presenter/Leading author	Co-authors
<i>Sub-session 3.3 – Re-evaluation of airframe/avionics resilience standards and certification</i>			
1000-1020	The Aircraft Flight Envelope	Dr Rainer VON WREDE Airbus	Flora LANSON
1020-1040	Coffee/tea Break		
1040-1120	Panel discussion 3.1	Moderated by: Herbert PUEMPEL (CAeM/ET-ASC) Panelists: TBD	—
<i>Closing of the Conference</i>			
1120-1200	Recommendations and Statement	Mr Dimitar IVANOV Chief, Aeronautical Meteorology Division, WMO Mr Chi Ming SHUN President, Commission for Aeronautical Meteorology, WMO	—
1200-1210	Closing remarks by ICAO	Mr Yong WANG Chief, Airport Operations and Infrastructure, ICAO	—
1210-1220	Closing remarks by President of the WMO CAeM	Mr Chi Ming SHUN President, Commission for Aeronautical Meteorology, WMO	—
1220-1230	Closing remarks by WMO	Mr Dimitar IVANOV for Dr Xu TANG Director, Weather and Disaster Risk Reduction Department, WMO	—



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1230-1240	Closing remarks by the Host	Mr Jean-Marie CARRIERE, Director, Meteorological Services, Météo- France — END —	—