**UPDATE OF EXPERT TEAM WORK PLANS**

**ET-ASC work plan update**

*(Submitted by Herbert Puempel and Matt Strahan, ET-ASC Co-Chairs)*

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| **Summary and Purpose of Document**This document provides a draft update of the ET-ASC work plan based on the outcomes of the meeting.The finalized work plan will be included in the ET-ASC/ET-ISA/2 Final Report. |

**ACTION PROPOSED**

The meeting is invited to review and update the attached work plan.

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| **TEAM** |
| **Commission** | **WMO Commission for Aeronautical Meteorology (CAeM)** |
| **Expert Team on** | Aviation, Science and Climate |
| **Start Date / End Date** | August 2014  | August 2018 |
| **Stakeholders** | CAEP, SES, AvRDP, CAS |
| **Team** | **Name** | **Organization / Country**  | **E-mail** |
| **Chair / Co-chairs** | Herbert PUEMPELMatt STRAHAN | AustriaUnited States | HPuempel@gmail.com Matt.Strahan@noaa.gov  |
| **Core Members** | Ping Wah LICory P. DAVISAnna IVANOVAMatthew HORT | Hong Kong, ChinaNew ZealandRussian FederationUnited Kingdom | pwli@hko.gov.hkcory.davis@metservice.comivanova@mecom.rumatthew.hort@metoffice.gov.uk |

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|  **DESCRIPTION** |
| **Objective** | Raise awareness of aviation stakeholders on issues of aviation and climate, promote the use of current scientific methodology for Now-Casting and VSRF in Aviation, including probabilistic forecasting |
| **Background**  | Provide a sound scientific base for GANP / ASBU , with a view to validation and translation of MET input to ATM and ASU |
| **Terms of Reference** | 1. To coordinate the response to science related requests in support of the development of new and evolving service delivery concepts and related observing system requirements, in collaboration with the relevant WMO bodies and programmes;
2. To coordinate the response to science related requests for advice to support the development of new and evolving aviation now-casting and very short-range forecasting concepts in collaboration with the relevant WMO bodies and programmes;
3. To provide expert representation to the ICAO CAEP and coordination of responses to science related requests for advice relating to the impacts of climate change and variability on aviation, including seasonal and inter-annual changes, in collaboration with GFCS and relevant WMO bodies and programmes; and to make WMO Members aware of emerging opportunities for related services;
4. To develop and maintain a repository of relevant research activities in collaboration with the relevant organizations and bodies;
5. To report regularly on progress to the president of CAeM.
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| **Communication Strategies** |
| **Description** | **Target Audience** | **Delivery Method** | **Frequency / Date** | **Responsibility** |
| **Work Plan** | ATM, ASU representatives | Publications, Workshops scientific events | Publications ongoing /on demand, Sci. Event 4Q2017 | Chair and team, Secretariat support |
| **General correspondence** | On demand (e.g. Airbus etc.) | Targeted expertise, links to suitable institutions | On demand | Chair, Secretariat |
| **Team Meetings** | ET-ASC  | Conference calls, email contact, face-to-face  | As required or with appropriate events  | Chair and team |
| **Reports** | CAeM | Email | As required | Chair |
| **Final Report** | CAeM | Email | As required | Chair |

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| **WORK PLAN** |
| **Activity / Task** | **ET****TOR(s)** | **Accountability** | **Deliverables** | **Dates** | **Status****(not started, ongoing, closed)** |
| **TOR A:** To coordinate the response to science related requests in support of the development of new and evolving service delivery concepts and  related observing and forecasting system requirements, in collaboration with the relevant WMO bodies and programmes; |
| **ACTIVITY 1: Prepare information on observational data requirements for high-resolution NWP models** |
| Need for the AMDAR and other aircraft data , including humidity and turbulence | A | Matt, Cory, … | Info paper | Dec 2017 | ongoing |
| Other data for data assimilation for high-res NWP, ensemble forecasting |  |  |  |  |  |
| **ACTIVITY 2: Future of WAFS and other forecasting systems** |
| “Issue paper” for future WAFS development |  |  |  |  |  |
| Input to Guidance material (Doc 732) on WAFS |  |  |  |  |  |
| Input to Guidance material (Doc 732) on probabilistic forecasting |  |  |  |  |  |
| **ACTIVITY 3: Prepare WMO Scientific Conference (with ET-ISA) and others** |
| <to be completed> |  |  |  |  |  |

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| **TOR B: To coordinate the response to science related requests for advice to support the development of new and evolving aviation now-casting and very short-range forecasting concepts in collaboration with the relevant WMO bodies and programmes;** |
| **ACTIVITY B1: AvRDP together with WWRP** |
| Phase 1: Nowcasting capabilities | B | Peter |  |   | ongoing |
| Nowcasting Symposium WSN-16 | B |  |  |  |  |
| Phase 2: Translation into ATM impacts | B |  |  |  |  |
| **ACTIVITY B2:**  |
| <Delete?> |  |  |  |  |  |
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| **TOR C: To provide expert representation to the ICAO CAEP and coordination of responses to science related requests for advice relating to the impacts of climate change and variability on aviation, including seasonal and inter-annual changes, in collaboration with GFCS and relevant WMO bodies and programmes; and to make WMO Members aware of emerging opportunities for related services;** |
| **ACTIVITY C1: ICAO CAEP** |
| Participate in CAEP and provide inputs on behalf of WMO and CAeM(pending agreement by ICAO) |  |  |  |   |  |
| **ACTIVITY C2: White paper on climate change and aviation** |
| White Paper to raise awareness of the issues  |  |  |  |  |  |
| **ACTIVITY C3: Amendment to the climatological part of WMO TR (WMO-No.49)** |
| Review of aerodrome climatology requirements included in the WMO Technical Regulations, Volume II, Part III |  |  |  |  |  |
| Draft amendment proposal for CAeM-16 |  |  |  |  |  |
| Coordinate with CCl, ICAO and ACI |  |  |  |  |  |
| Collect national practices from ET-ASC members |  |  |  |  |  |

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