

# PART A

## EXPERT NETWORK ON AERONAUTICAL METEOROLOGICAL HAZARDS SCIENCE

### CAeM OPERATING PLAN

#### OBJECTIVE (Max. 50 words)

To contribute, in close collaboration with relevant WMO and other partners, the promotion, facilitation and advocacy of science and technological research and innovation to improve the observation, forecasting and warning of aeronautical meteorological hazards, including appropriate pilot projects, to meet evolving user requirements for aeronautical meteorological information and services.

#### TERMS OF REFERENCE (Max. 8 items. Max. 25 words each. To be consistent with the priority themes established by CAeM-16 and [available here](#) for each ET/EN)

- (A) To coordinate the advancement in observation and quantification of aeronautical meteorological hazards, in particular in respect of satellite and other remote sensing applications as well as aircraft-based observations, in collaboration with the relevant WMO bodies and programmes.
- (B) To collaborate with relevant WMO bodies and programmes to prioritize recommendations for the future development of the science of aeronautical meteorology, in particular now-casting and very short-range forecasts, as well as probabilistic forecasts needed to support aviation trajectory-based operations.
- (C) To coordinate the exploration in the use of new technology, such as big data, machine learning and artificial intelligence, in addressing the forecasting and warning needs to enable impact-based decision support services to support MET-ATM translation.
- (D) To report regularly on progress to the president of CAeM.

#### MAJOR DELIVERABLES (Max. 10 items. Max. 15 words each)

- (1) Input to WMO Rolling Review of Requirements process.
- (2) Input to the roadmap on extension of AvRDP project in coordination with relevant WMO bodies.
- (3) Organization and successful delivery of a WMO Aeronautical Meteorology Scientific Conference in the 2020/2021 timeframe.
- (4) Support and facilitate the delivery of demonstration projects to show the current operational capability of the new enroute hazardous weather information.

Last updated: 28/03/2019