

ICAO CAEP WG2

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Background

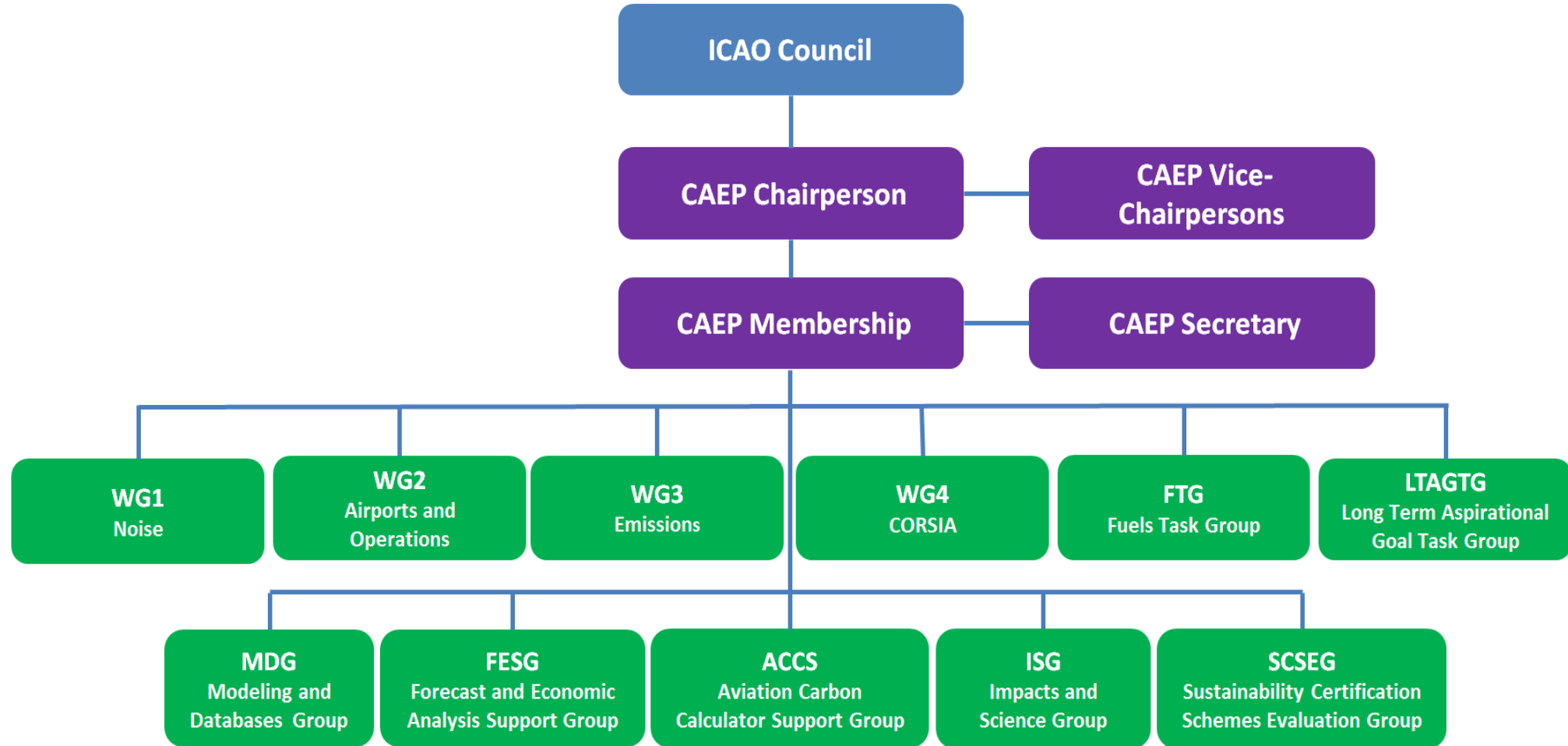
ICAO – International Civil Aviation Organization (www.icao.int)

- United Nations of Aviation – Develops Standards and Recommended Practices for aviation

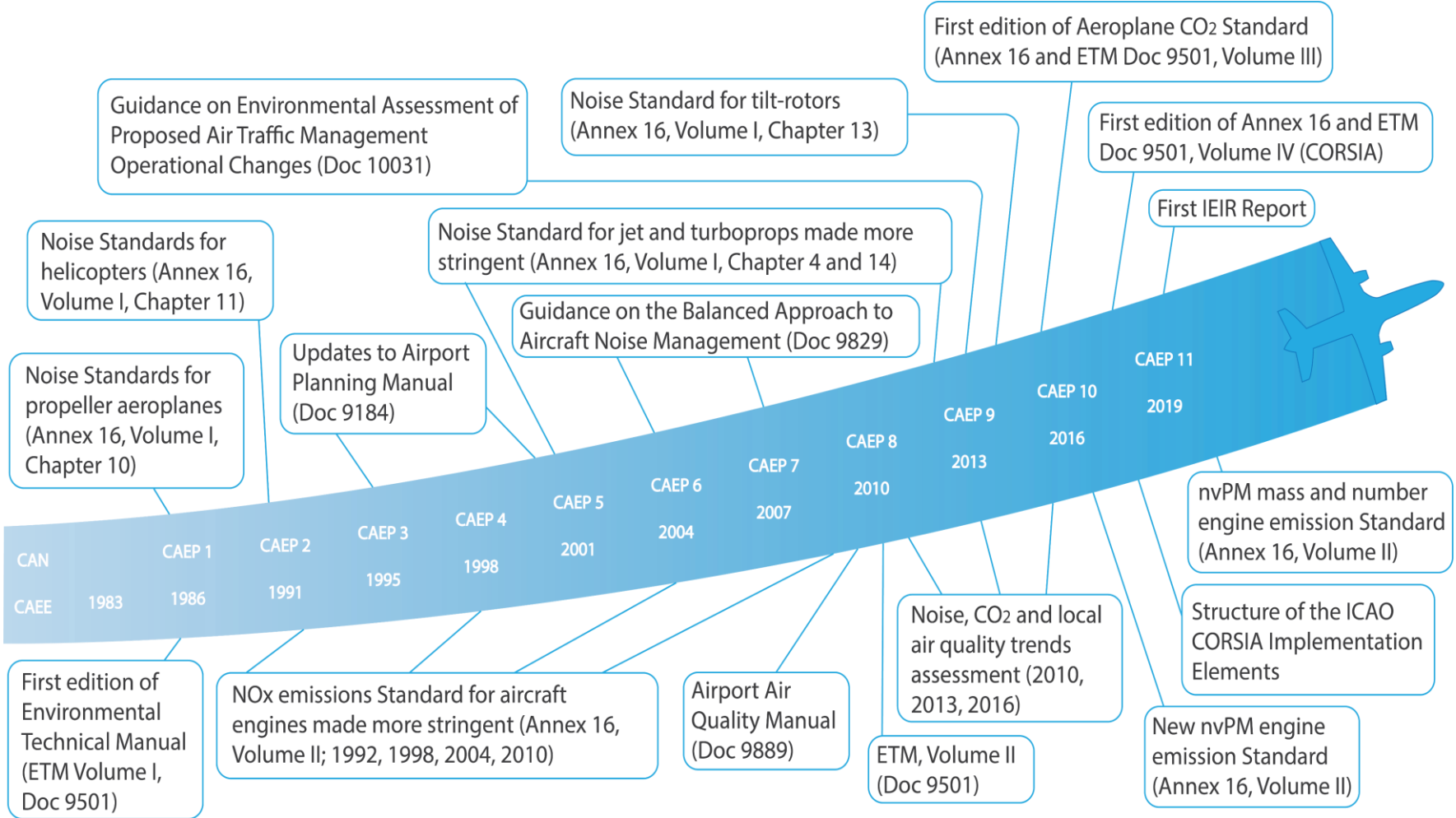
CAEP – Committee on Aviation Environmental Protection

- CAEP is a technical committee of the ICAO Council established in 1983. CAEP assists the Council in formulating new policies and adopting new Standards and Recommended Practices (SARPs) related to aircraft noise and emissions, and more generally to aviation environmental impact. Meets in 3 year cycles. This cycle ends in February 2022.
- 30 Member States (e.g. US, UK, France, China), 7 Observer States (e.g. Greece, Peru), and 15 Observer Organizations (e.g. IATA, IFALPA, ACI, ICCAIA).
- FAA represents the US.
- CAEP undertakes specific studies, as requested by the Council. Its scope of activities encompasses noise, local air quality (LAQ) and the basket of measures for reducing international aviation CO₂ emissions, including aircraft technology, operational improvement, sustainable aviation fuels and market-based measures (CORSIA).
- CAEP informs the Council's and Assembly's decision making with the ICAO Global Environmental Trends, which assess the present and future impact of aircraft noise and aircraft engine emissions. The Global Environmental Trends is crucial to the work of ICAO as it provides a robust single reference for sound discussion and decision-making.
- The Council reviews and adopts CAEP recommendations, including amendments to the SARPs, and in turn reports to the ICAO Assembly where the main policies on environmental protection are ultimately defined and promulgated.

CAEP Structure



CAEP Milestones



CAEP Working Group 2 – Airports and Operations

Description –

The main aim of Working Group 2 (WG2, Airports and Operations) is to consider environmental issues related to airports and aircraft operations/ATM. The objective of the work program of WG2 is to develop and disseminate guidance to States, aviation authorities/planners, and operators on environmental issues related to airport development and practices and aircraft operational procedures. The development of global best practices in these areas can lead to reductions in the aviation environmental footprint.

Current Work - The WG2 work program for the CAEP/12 cycle (2019-2022) includes various topics such as:

- **Airport Planning – Land use and environmental management**
 - Investigation on possible indicators for encroachment
 - Eco-Airport Toolkit collection
- **Climate Change Risk Assessment, Adaptation, and Resilience**
 - Determine a methodology and timeline for ensuring the information in the synthesis stays current and incorporates the latest scientific information
 - Review and assess the synthesis information for suitability and relevance for dissemination by facts sheets.
 - Develop and distribute a report on identified steps to develop climate change risk assessments, adaptation and resilience measures for aviation stakeholders to consider in air and ground planning
- **Operational measures to reduce noise and emissions:**
 - Operational Opportunities to Reduce Aircraft Noise
 - Assessment of the potential for an airport database on noise and emissions management initiatives
- **Air navigation and traffic management**
 - Understanding Aviation Stakeholder Community Engagement needs in the context of delivering ATM change
 - Environmental metrics of relevance to the Global Aviation System
 - Flight efficiency – horizontal and vertical (climb, descent, and enroute)
 - Environmental impact of Unmanned Aircraft Operations at and around airports

Documents and Circulars

Main Publications

- Doc 9184 - Airport Planning Manual, Part 2, Land Use and Environmental Management
- Eco-Airport e-collection
- Doc 9968 - Report on Environmental Management Systems (EMS) Practices in the Aviation Sector
- Circular 351 - Community Engagement for Aviation Environmental Management
- Doc 10013 - Operational Opportunities to Reduce Fuel Burn and Emissions (ex Cir. 303)
- Doc 9889 - Airport Air Quality Manual
- Doc 10021 - Independent Expert Report on Medium and Long Term Operational Fuel Burn Goals
- Doc 9829 - Guidance on the Balanced Approach to Aircraft Noise Management (Second Edition, 2008)
- Doc 10031 - Environmental Assessment Guidance for proposed Air Traffic Management Operational Changes
- Doc 9750 - Global Air Navigation Plan for CNS/ATM Systems
- Doc 8168 - Procedures for Air Navigation Services – Aircraft Operations(OPS)
- Doc 9931 - Continuous Descent Operations (CDO) Manual
- Doc 9993 - Continuous Climb Operations (CCO) Manual
- Circular 317 - Effects of PANS-OPS Noise Abatement Departure Procedures on Noise and Gaseous Emissions
- Doc 9911 - Recommended Method of Computing Noise Contours around Airports (ex Cir. 205)
- Doc 9888 - Noise Abatement Procedures: Review of Research, Development and Implementation Project – Discussion of Survey Results (2010)