



PECASUS Fact Sheet

- PECASUS has a long-term and versatile experience in running 24/7 Space Weather (SWX) services through its operational hubs (UK Met Office, FMI, STCE) since the year 2000, and been providing services with manual oversight for more than five years.
- PECASUS has been successfully audited by WMO as a consortium with high credits - all PECASUS Consortium processes and management structures were established and documented well before the audit.
- PECASUS has already conducted one year of successful cooperation as a Consortium, which is based on the strong culture of scientific excellence, operations quality, competency and compliance management. The Consortium partners and teams have had scientific cooperation between each other even for decades.
- The PECASUS operational processes include a specific feed-back process involving airlines and air traffic organizations.
- Contingency plans and backup arrangements are established based on three SWXC hubs (FMI, STCE, UK Met Office) to enable uninterrupted service provision.
- PECASUS with its streamlined organization and operational processes is fully ready to start Global Space Weather Center operations as audited after the designation by ICAO.
- One key PECASUS partner - UK Met Office - has been running ICAO VAAC and WAFC centers for many decades that will give unique experience for PECASUS when ramping up the Space Weather Center in November 2018.

- PECASUS partners have a very strong global participation with other SWX centers, e.g. UK Met Office, FMI, STCE and DLR have frequent exchange of data and communications with the US NOAA/SWPC. Moreover, UK Met Office has daily SWX forecaster briefings with SWPC.
- Funding and investments are secured to further develop the PECASUS state-of-the-art space weather observations and modelling assets.
- A table top exercise with airlines and air traffic organizations was organised by UK NATS Prestwick in July 2018 to test the existing procedures - such as loss of communication - against a realistic space weather scenario provided by the Met Office. The exercise produced a wealth of important and beneficial SWX-air traffic information. The PECASUS Chief Science Officer Dr Kauristie (FMI) took part in the exercise.
- PECASUS has also reached out to the South African Space agency (SANSA) ICAO proposal team for collaboration.

ICAO Decision situation

As of today the decision on the selection of the ICAO space weather providers is planned to take place by the Council of ICAO in the fall Session 2018.

PECASUS Consortium

The PECASUS (Pan-European Consortium for Aviation Space weather User Services) is prepared to provide a global space weather (SWx) information service center (SWxC) as specified by ICAO. The countries forming the PECASUS consortium are Finland (Lead), Belgium, UK, Poland, Germany, the Netherlands, Italy, Austria, and Cyprus.