



ESA's Arctic Weather Satellite - Launched and Set to Improve Global Weather Forecasts Using Our Scientific Weather Payload

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ESA's Arctic Weather Satellite (AWS) was successfully launched Friday, August 16, 2024 from the Vandenberg Space Force Base in California on the Space-X Falcon 9 Transporter-11 Mission. The satellite carries an AAC Clyde Space innovative scientific weather payload, power and command and data handling solution has since made contact with the operations team. AWS is a pre-cursor to a potential constellation further on for Eumetsat.

ESA's Arctic Weather Satellite is an initial prototype mission that aims to demonstrate the usefulness of radiometric measurements to improve weather forecasts in the Arctic region and globally. The final solution would involve a full constellation of satellites to provide more frequent measurement, something that cannot be achieved by the larger geostationary satellites already in use to depict the areas. It will build upon build on existing Arctic monitoring satellites, such as MetOp and MetOp SG, and provide precise, short-term weather forecasts for the Arctic region.

The satellite, which weighs just 125 kg, carries a weather payload that will yield high-resolution vertical profiles of atmospheric temperature and humidity in all weather conditions. AAC Omnisys, part of the AAC Clyde Space Group, developed and built this scientific weather payload in Gothenburg, Sweden.

AAC Clyde Space also supplied a high-performance STARBUCK power system from its range of microsatellite products, and a Sirius Command and Data Handling System, both designed and built at its Uppsala, Sweden, site.

"Congratulations to all the teams involved in this mission on the successful launch. AWS will not only enable forecasting using real-time weather data but will enable the analysis of climate patterns and help us to make informed decisions in our fight against climate change", says AAC Clyde Space CEO Luis Gomes

Watch Arctic Weather Satellite: advancing weather forecasting in a changing climate for more information about the mission:

https://www.esa.int/ESA_Multimedia/Videos/2024/08/Arctic_Weather_Satellite_advancing_weather_forecasting_in_a_changing_climate

For more information:

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ABOUT AAC CLYDE SPACE

AAC Clyde Space specialises in small satellite technologies and services that enable businesses, governments together three divisions:

Space Data as a Service (SDaaS) – delivering data from space directly to customers

Space missions – turnkey solutions that empower customers to streamline their space missions

Space products and components – a full range of off-the-shelf and tailor-made subsystems, components and sensors

AAC Clyde Space aims to become, in our chosen markets, a world leader in commercial small satellites and services from space, applying advances in its technology to tackle global challenges and improve our life on Earth.

The Group's main operations are located in Sweden, the United Kingdom, the Netherlands, South Africa and the USA, with partner networks in Japan and South Korea.

AAC Clyde Space's shares are traded on Nasdaq First North Premier Growth Market (Ticker: AAC). Carnegie Investment Bank AB is the Certified Adviser. The share is also traded on the US OTCQX- market under the symbol ACCMF.