## Airbus Zephyr Solar High Altitude Platform System (HAPS) reaches new heights in its successful 2021 summer test flights

@AirbusDefence @AirbusSpace #Zephyr #Stratospheric

- Achieved 36 days of stratospheric flight, across two 2021 flights, proving Zephyr's status as the only HAPS able to perform at length in the stratosphere
- Set a new world record for absolute altitude for this class of UAS at 76,100ft.
- Secured and exercised FAA flight approvals operating inside the US National Airspace System (NAS)
- Demonstrated successful flight with multiple payload integrations and tested new OPAZ payload, streaming Earth observation data
- Proved Zephyr can operationalize the stratosphere, achieving some 2,435 total flight hours and demonstrating precise stratospheric manoeuvrability and station-keeping over points on the ground.

**Munich, 11<sup>th</sup> October 2021** – The Airbus Zephyr S completes a successful 2021 test flight campaign in the United States. The final Airbus solar-powered High Altitude Platform System (HAPS) flight touched down on 13<sup>th</sup> September in Arizona, USA, ending the most ambitious and successful Zephyr flight campaign to date.

The flight campaign had a clear customer focus - to demonstrate how Zephyr could be used for future operations, flying outside of restricted airspace and over airspace shared with commercial air traffic. Carrying an Optical Advanced Earth Observation system for Zephyr (OPAZ) payload, Zephyr proved its operational value to provide instant, persistent, and improved situational awareness.

"Working with Airbus and the Zephyr team during the 2021 flight campaign, significant progress has been made towards demonstrating HAPS as a capability. This summer's activities represent an important step towards operationalising the stratosphere" said James Gavin, Future Capability Group Head at Defence Equipment & Support, the procurement arm of the UK Ministry of Defence.

"Defence investment in cutting edge technology is key to the development of world-leading military capabilities. Zephyr is an important programme within UK Strategic Command and the recent successful flight has required many innovative technical solutions. This represents a significant milestone for Zephyr which is informing the development of new concepts and ways of enabling military operations, particularly in the context of Multi-Domain Integration." Said Major General Rob Anderton-Brown, Director Capability and MDI Change Programme at Strategic Command.

The campaign consisted of six flights in total, four low level test flights and two stratospheric flights. The stratospheric flights flew for around 18 days each, totaling more than 36 days of



stratospheric flight in the campaign. This adds a further 887 flight hours to the 2,435 stratospheric flight hours for Zephyr to date, marks significant progress for fixed wing HAPS and is a step towards making the stratosphere an operational reality for its customers.

"Credible and proven ultra-persistence, stratospheric agility, and payload interoperability underscore why Zephyr is the leader in its sector. It is a sustainable, solar powered, ISR and network extending solution that can provide vital future connectivity and earth observation to where it is needed." said Jana Rosenmann, Head of Unmanned Aerial Systems at Airbus.

Such an innovative and potentially game-changing capability is part of Airbus ambition to rapidly move towards operationalizing the stratosphere. "Carbon Neutral", Zephyr uses sunlight to fly and recharge its batteries, using no fuel and producing no carbon emissions.

With its ability to remain in the stratosphere for months at a time, Zephyr will bring new see, sense and connect capabilities to both commercial and military customers. Zephyr will provide the potential to revolutionise disaster management, including monitoring the spread of wildfires or oil spills. It provides persistent surveillance, tracing the world's changing environmental landscape and will be able to provide communications to the most unconnected parts of the world.

Newsroom

## Contacts for the media

## Florian Taitsch

Airbus Defence and Space +49 (0)151 16831052 florian.taitsch@airbus.com

## Morgan Keese

Airbus Defence and Space +1 571 524 3561 Morgan.Keese@airbusus.com



If you wish to update your preferences to Airbus Communications, <u>media@airbus.com</u> If you no longer wish to receive communications from Airbus, <u>media@airbus.com</u>