



FTMRS SOLAR

High-altitude platform emergency communication command base station





Overview

What is a high altitude platform station?

Abstract—The high altitude platform station (HAPS) concept has recently received notable attention from both industry and academia to support future wireless networks. A HAPS can be equipped with 5th generation (5G) and beyond technologies such as massive multiple-input multiple-output (MIMO) and reconfigurable intelligent surface (RIS).

What is a high altitude platform station (Hibs)?

High Altitude Platform Station as IMT Base Stations (HIBS) are essentially HAPS platforms (see Figs. 1 & 2), defined and operating within the context of a station in the mobile service (specifically IMT mobile service). This distinction reflects the lens through which the ITU currently views these technologies and the services they may support.

Can high-altitude platforms be used for telecommunications?

They are equipped with solar panels and batteries to provide power, and carry payloads such as telecommunications equipment, cameras, and sensors. The concept of using high-altitude platforms for telecommunications is not new, with studies on the technology dating back to the 1990s.

Are low altitude UAS better than terrestrial communications?

Compared to terrestrial communications or satellites, low altitude UAS are generally faster to deploy, more flexibly reconfigured and have better communication channels due to presence of short-range LOS links.



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Sep 9, 2024 · High-altitude platform stations, commonly known as HAPS, are an emerging technology that has the potential to revolutionize telecommunications and bring connectivity to ...

High Altitude Platform Stations in Design Solutions for ...

Nov 4, 2011 · ABSTRACT High Altitude Platform Stations (HAPS) are expected to conform a third major infrastructure for communications and broadcasting, after terrestrial and satellite ...

High Altitude Platform system

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Chapter 17: High - Altitude Platforms (HAPS) ...

The student will be introduced to High-Altitude Platforms (HAPS) for wireless communications. This overview will include the key design ...

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HAPS - High-altitude platform systems

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