

## **ICAO Adopts International Standards for Galileo and Future SBAS**

The International Civil Aviation Organization ([ICAO](#)) has adopted international standards for Galileo and future satellite-based augmentation systems (SBAS). This is a milestone for the aviation industry, as the European Union Agency for the Space Programme ([EUSPA](#)) can now fully leverage the potential of satellite navigation services developed in Europe — in combination with GPS — to make air travel safer, more efficient, and more reliable.

Galileo will provide advanced navigation capabilities to aviation, improving the availability and reliability of services. The risk of loss or interference will be significantly reduced with a more accurate and secure signal for positioning and timing.

Additionally, the evolution to the European Geostationary Navigation Overlay Service ([EGNOS](#)) v3 will augment Galileo and enable the use of its dual-frequency bands — E1 and E5, protected for aviation use — in combination with GPS. This enhances vertical guidance to enable precision approach and landing capabilities for all equipped aircraft across Europe.

Read more in *GPS World* article. [https://www.gpsworld.com/icao-adopts-international-standards-for-galileo-and-future-sbas/?utm\\_source=Navigate%21+Weekly+GNSS+News&utm\\_medium=Newsletter&utm\\_campaign=NCMCD230419003&oly\\_enc\\_id=1784A2382467C6V](https://www.gpsworld.com/icao-adopts-international-standards-for-galileo-and-future-sbas/?utm_source=Navigate%21+Weekly+GNSS+News&utm_medium=Newsletter&utm_campaign=NCMCD230419003&oly_enc_id=1784A2382467C6V)

2023-04-20



## SouthPAN Service Outage Following Inmarsat Failure

Users of the Australia-New Zealand Southern Positioning Augmentation Network (SouthPAN) Satellite Based Augmentation System (SBAS) have been left without service following a failure of the Inmarsat satellite that provides the facility.

In a statement posted on its website on 18 April (UK time), Inmarsat said that it had “experienced an outage on its I-4 F1 satellite, which provides L-band services for East Asia and the Pacific region, at 21.14 UTC on Sunday 16 April. This resulted in the temporary loss of services from the satellite and the company immediately instigated its recovery procedures.”

Geoscience Australia, the Australian lead agency for the SouthPAN program, in an email notification circulated just before 6:00pm on Tuesday, 18 April, said that “SouthPAN services in Australia and New Zealand are currently unavailable due to a service outage affecting the Inmarsat I-4F1 Satellite. We have been advised Inmarsat are [sic] working to restore services as soon as possible. We will provide a further update when we receive more information about when services are expected to resume.”

No further explanation for the loss of service has been provided, nor has Inmarsat provided an estimated time for restoration of services.

Read more in *Spatial Source* article. [https://www.spatialsource.com.au/southpan-service-outage-following-inmarsat-failure/?utm\\_campaign=SS%20-%20Overall%20Publication%20-%20Master&utm\\_medium=email&\\_hsmi=255795747&\\_hsenc=p2ANqtz-8Rfeh\\_ZWFsrGuWH6gCnl8mnCtMdhG4mo99COxvO7NIBXJpDH-GlZT\\_6WwITUT6sOB64ZefX8hGMkIMMu\\_fgJYBFmEXaQ&utm\\_content=255795747&utm\\_source=hs\\_email](https://www.spatialsource.com.au/southpan-service-outage-following-inmarsat-failure/?utm_campaign=SS%20-%20Overall%20Publication%20-%20Master&utm_medium=email&_hsmi=255795747&_hsenc=p2ANqtz-8Rfeh_ZWFsrGuWH6gCnl8mnCtMdhG4mo99COxvO7NIBXJpDH-GlZT_6WwITUT6sOB64ZefX8hGMkIMMu_fgJYBFmEXaQ&utm_content=255795747&utm_source=hs_email)

2023-03-29



## **China to Build Integrated Positioning, Navigation System Based on Next Generation BDS by 2035**

China aims to build a more ubiquitous, integrated, and intelligent comprehensive system with the next generation BeiDou System (BDS) at its core by 2035 to provide efficient positioning, navigation and timing services, according to the China Satellite Navigation Annual Conference held in Beijing on Wednesday 26 April.

With the theme of "digital economy, intelligent navigation," the annual conference which runs from Wednesday to Friday aims to use BDS to play a greater and more important role in national economic construction and social development.

More than 4,000 people from the domestic and foreign satellite navigation industry attended the conference online and offline. The experts and scholars are expected to comprehensively discuss the prospects and huge potential of the innovative integration of digital economy and satellite navigation.

Read more in *article...*

<https://www.globaltimes.cn/page/202304/1289884.shtml>

2023-04-27



## **Qualcomm and Xiaomi Demonstrate Mobile Metre-level Positioning Capabilities**

[Qualcomm Technologies](#) and Xiaomi have verified meter-level positioning in the [Xiaomi 12T Pro](#) powered by the Snapdragon 8+ Gen 1 mobile platform, in Germany.

Accuracy verification tests, including driving tests, were conducted by Qualcomm Technologies, Xiaomi, and Trimble in various scenarios such as open-sky rural roads and urban highways. The companies' solutions demonstrated met-level positioning variance at a 95% confidence level.

This level of accuracy in a commercial smartphone is enabled through Qualcomm metre-level positioning for mobile in combination with Trimble RTX correction

services. When integrated with Snapdragon mobile platforms, [Trimble RTX](#) enhances the phone's positioning capabilities.

Read more in *GPS World* article. [https://www.gpsworld.com/qualcomm-and-xiaomi-demonstrate-mobile-meter-level-positioning-capabilities/?utm\\_source=Navigate%21+Weekly+GNSS+News&utm\\_medium=Newsletter&utm\\_campaign=NCMCD230419003&oly\\_enc\\_id=1784A2382467C6V](https://www.gpsworld.com/qualcomm-and-xiaomi-demonstrate-mobile-meter-level-positioning-capabilities/?utm_source=Navigate%21+Weekly+GNSS+News&utm_medium=Newsletter&utm_campaign=NCMCD230419003&oly_enc_id=1784A2382467C6V)

2023-04-21



## **GEODE PRS Project Biggest Ever Launched**

Managed by FDC under the aegis of the Belgian, French, German, Italian and Spanish ministries of defence, GEODE the largest and one of the most ambitious defence cooperation projects launched under the umbrella of the European Commission's European Defence Industrial Development Program (EDIDP).

Speaking at the recent Satellite Summit in Munich, Frank Wilms, Principal at FDC, said, "The development of the Galileo Public Regulated Service (PRS) user segment is under the authority and is the responsibility of the Galileo member states. To that end, two large projects, GEODE and NAVGARD, have been launched." The first of these, GEODE, was launched in 2021 and brings together 30 companies from 14 countries, including the likes of Airbus Defence and Space, Siemens, Orolia, Leonardo, Thales, GMV, Telespazio, Saab and many others. The goal of the project is to provide security modules, receivers and infrastructure prototyping.

Read more in *Inside GNSS* article. <https://insidegnss.com/geode-prs-project-biggest-ever-launched/>

2023-04-17



## GPS Jamming in Israel Spikes Amid Regional Flare-up

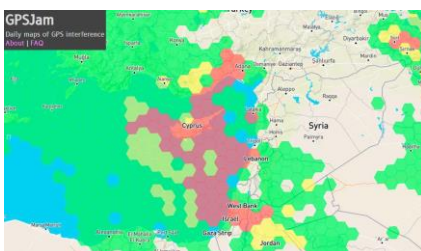
A sharp spike of satellite-based Global Positioning System (GPS) jamming was recorded in Israel and the eastern Mediterranean recently, following a week of violent flare-ups between Israel and various groups in Syria and Lebanon that included dozens of rockets being launched at Israel and one downed drone that crossed over from Lebanon.

[According to publicly available data](#), this weekend saw the most severe GPS jamming in six months. The data is based on the satellite navigation systems of civil aircraft flying in the Middle East, which automatically report their levels of accuracy at any given moment. On average, about nine percent of the daily number of planes flying in the region report significant GPS jamming and a low level of accuracy of their systems. Over the weekend, however, more than 20 percent of the planes reported disturbances that led to a low level of accuracy of their navigation system – the highest number since October.

Read more in *article*...

<https://www.haaretz.com/israel-news/security-aviation/2023-04-10/ty-article/gps-jamming-in-israel-spikes-amid-recent-flareup/00000187-6589-dcdb-a9af-eda9f9330000>

2023-04-10



## Australian Aircraft's GPS Receiver Jammed By Alleged Chinese Warships

Some airlines and military aircraft, including the Australian commercial airline Qantas, are receiving radio interference and GPS jamming from alleged Chinese warships in the Asia Pacific, report [Australia Aviation](#) and [The Guardian](#).

The International Federation of Air Line Pilots' Associations (IFALPA) released a [statement](#) acknowledging the reports of interference and recommended that pilots carry on, not respond to the warships and report all incidents to air traffic control.

"IFALPA has been made aware of some airlines and military aircraft being called over 121.50 or 123.45 by military warships in the Pacific region, notably South China Sea, Philippine Sea, East of Indian Ocean. In some cases, the flights were provided vectors to avoid the airspace over the warship. We have reason to believe there may be interferences to GNSS and RADALT as well," the statement noted.

Read more in *GPS World* article. [https://www.gpsworld.com/australian-aircrafts-gps-receiver-jammed-by-alleged-chinese-warships/?utm\\_source=Navigate%21+Weekly+GNSS+News&utm\\_medium=Newsletter&utm\\_campaign=NCMCD230322003&oly\\_enc\\_id=1784A2382467C6V](https://www.gpsworld.com/australian-aircrafts-gps-receiver-jammed-by-alleged-chinese-warships/?utm_source=Navigate%21+Weekly+GNSS+News&utm_medium=Newsletter&utm_campaign=NCMCD230322003&oly_enc_id=1784A2382467C6V)

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