

## Galileo satellites arrive at Europe's Spaceport

October 8 2021



Flown from Liège Airport in Belgium on an Ilyushin cargo carrier, Galileo satellites 27-28 touched down in Cayenne – Félix Eboué Airport in the evening of 6 October 2020. The two satellites, each in their own transport container, were placed on lorries and driven to Europe's Spaceport. Credit: ESA-P. Muller

The latest pair of Galileo satellites have touched down at Europe's



Spaceport in French Guiana, ahead of their launch together next month.

Cocooned safely within environmentally controlled containers, the satellites were carried across the Atlantic aboard an Ilyushin cargo carrier. The satellites left ESA's ESTEC Test Centre in Noordwijk, the Netherlands, on Tuesday morning heading for Liège Airport in Belgium. From here they flew to Cayenne in French Guiana via a stop in Oporto Airport in Portugal, arriving at their final destination on Wednesday evening local time.

Once unloaded from the aircraft, the satellites were then driven through the tropical dusk to the cleanroom surroundings of the spaceport nearby Kourou, where they could be safely unpacked to begin the <u>satellite</u> launch campaign.

These two satellites are the first of the last batch of Galileo First Generation satellites, known as 'Batch 3', made up of 12 satellites in all. They are built by OHB SE in Bremen, Germany, with their navigation and search and rescue payloads contributed by Surrey Satellite Technology Ltd in Guildford in the UK.

Before being cleared for launch, the satellites have gone through rigorous testing at ESA's ESTEC Test Centre, the largest satellite test facility in Europe—their last stop before flying to South America.





Galileos 27-28 seen atop their gold-wrapped Fregat upper stage within their Soyuz launcher fairing. Credit: ESA-P. Carril

These two satellites will be launched together aboard a Soyuz launcher from Europe's Spaceport in French Guiana. The launcher incorporates a Fregat <u>upper stage</u>, which will carry them to their planned 23 222 km



altitude medium-Earth orbit.

These satellites will add to the 26-satellite Galileo constellation already in orbit and delivering Initial Services around the globe.

Next month's lift-off will be the 11th Galileo launch in 10 years. Two further launches are planned for next year, to allow Galileo to reach Full Operational Capability in its delivery of services, to be followed by the launches of the rest of the Batch 3 satellites which are currently all undergoing pre-flight testing.

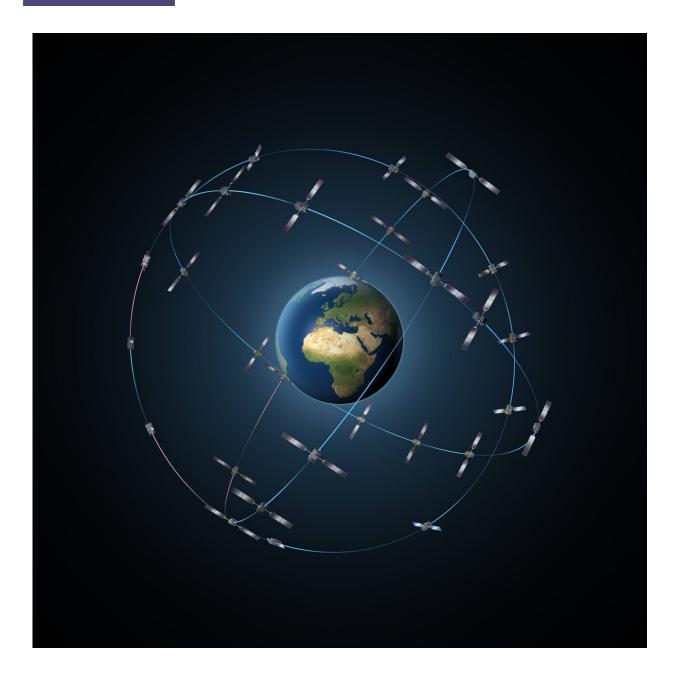
In parallel to Batch 3's completion of Galileo First Generation deployment, the new Galileo Second Generation satellites, featuring enhanced navigation signals and capabilities, are already in development with their deployment expected to begin by 2024.





Galileos 27-28 pictured during their ascent to orbit on their Soyuz launcher. The satellites are protected by a launch fairing, but once the Soyuz has passed through the atmosphere, this fairing can then be ejected. Credit: ESA P. Carril





The complete Galileo constellation will consist of 24 satellites along three orbital planes, plus two spare satellites per orbit. The result will be Europe's largest-ever fleet, providing worldwide navigation coverage. Credit: ESA-P. Carril

Galileo is currently the world's most precise satellite navigation system, serving more than two billion users around the globe.



## Provided by European Space Agency

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