

EGNOS SERVICE NOTICE

Number: 32

Version: 1.0

To: EGNOS SoL for Aviation Users

Date: 21/03/2025

Subject: LPV-200 service level unavailable above 60°N latitude

This Service Notice informs all EGNOS Safety of Life Service for Aviation users of the current status of EGNOS performance in the North of Europe.

We are currently at the peak of the solar cycle, a period characterized by increased solar activity that can significantly impact ionospheric conditions. Observations of the EGNOS system's performance during phases of high ionospheric activity have indicated a risk¹ that the Vertical Navigation System Error (VNSE) of the LPV-200 service level may exceed the 10-meter threshold in areas with high latitudes (60°N or more). This 10-meter threshold is specified in ICAO Annex 10² as a means of compliance with the use of a Vertical Alert Limit (VAL) between 10 m and 35 m, such as the LPV-200 service level.

Therefore, as a precautionary measure, the **LPV-200 service level is hereby declared unavailable above 60°N latitude.**

As long as this situation remains, no LPV-200 based procedures should be published in the abovementioned part of the Service area and it is recommended that APV-I based procedures are used instead, to the extent possible, as APV-I performance is not impacted by this situation.

For the aerodromes above 60°N with LPV-200 based procedures already published and duly notified to ESSP, the corresponding NOTAM Proposal notification has been / will be issued.

LPV200 service integrity has not been compromised at any time, and it remains compliant to the requirements in the full SDD declared service area.

EGNOS stakeholders are working together to recover full SDD service declaration area. This situation will continue to be monitored and the EGNOS SoL for Aviation users will be kept updated accordingly.

¹ Measured Vertical Navigation System Error (VNSE) higher than 10 m:

- On the 19/04/2024 at 11:03h in Tromsø EGNOS reference station for 4 seconds with a maximum value of 10.18m.
- On the 06/10/2024 at 23:23h in Trondheim EGNOS reference station for 45 seconds with a maximum value of 10.38m.
- On the 29/10/2024 at 23:09h in Kirkenes EGNOS reference station for 137 seconds with a maximum value of 10.60m.
- On the 29/10/2024 at 22:48h in Tromsø EGNOS reference station for 25 seconds with a maximum value of 10.90m.
- On the 01/11/2024 at 00:36h in Trondheim EGNOS reference station for 54 seconds with a maximum value of 10.30m.

² According to the guidance material of ICAO Annex 10 SARPs:

- If VNSE is higher than 10 m and below 15 m, the touchdown performance may be affected, and flight crew workload may be increased.
- If VNSE is higher than 15 m, the safety margin would be significantly reduced under some operational configurations.

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1 EGNOS STATUS AND PERFORMANCES

Latest information on EGNOS system status and performances can be found at the EGNOS User Support website <https://egnos.gsc-europa.eu>

Users can subscribe to notifications about planned GEO outages and configuration changes and to real-time notifications of unplanned GEO SIS outages and recoveries in the EGNOS User Support website <https://egnos.gsc-europa.eu>

2 CONTACT US

Should you have any question related to this Service Notice or EGNOS Safety of Life (SoL) service for aviation users and Open Service, please, contact helpdesk@egnos.gsc-europa.eu or [+34 911 236 555](tel:+34911236555) (H24/7)

Should you have any question related to EDAS and EGNOS Safety of Life (SoL) assisted service for MARitime userS, please, contact helpdesk@edas-maritime.gsc-europa.eu or [+34 911 236 555](tel:+34911236555) (H24/7)

For more information about EGNOS Safety of Life (SoL) service for aviation users and Open Service, please, visit the EGNOS User Support website at egnos.gsc-europa.eu. For more information about EDAS and EGNOS Safety of Life (SoL) assisted service for MARitime userS, please, visit the Maritime Service Provider website at edas-maritime.gsc-europa.eu