



EGNOS SERVICE NOTICE

Number: 002

Revision: 1.0

To: EGNOS SoL Service Users

Date: 28/10/2011

Subject: Status of EGNOS performances during October 2011

This Service Notice describes the situation of the EGNOS performances for the month of October 2011, during which an important degradation is observed in APV-I performances measured in the South of Europe. The content of this Service Notice is not intended to be exhaustive with respect to the causes and potential solutions/way forward, but just to provide a description of the observed behavior of EGNOS. The impacts of this issue are limited to APV-I performances, and affect neither the Open Service users nor the En Route to NPA service levels.

1 DESCRIPTION OF THE ISSUE

From the 30th of September 2011 onwards (measured until 24th October), APV-I performances over the Southwest of the Service area defined in EGNOS SoL SDD present progressive degraded values, with daily APV-I Availability values lower than 99% and daily APV-I Continuity risk figures above $5 \times 10^{-4}/15\text{sec}$. Several periods of loss of APV-I service are observed several days between 15:15 UTC and 20:45 UTC over the Southern part of Europe.

Next maps show the APV-I Availability and Continuity results in that period.

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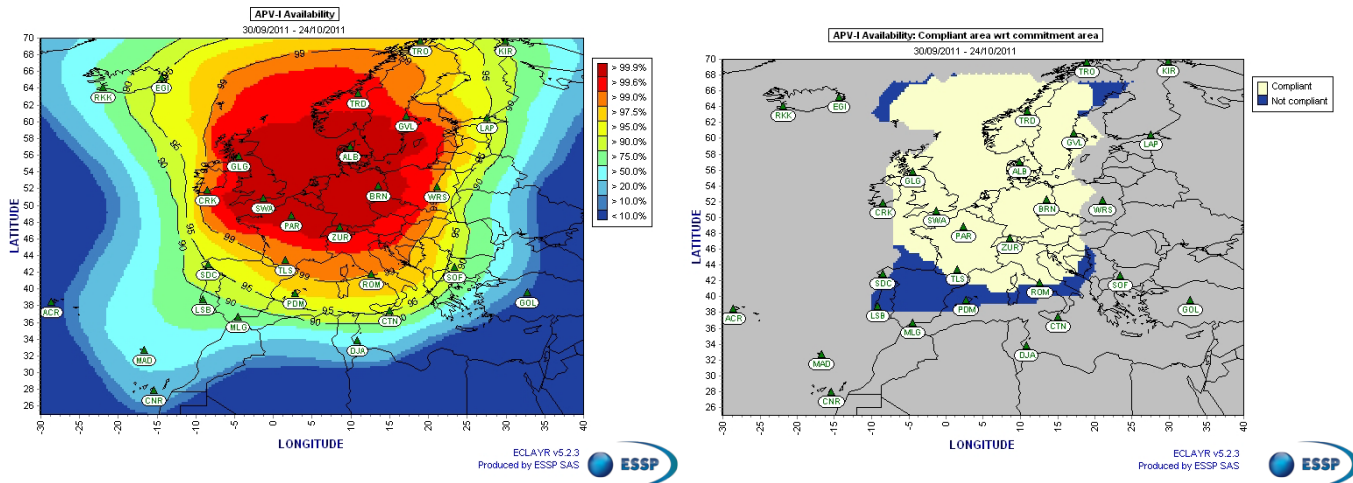


Figure 1 – APV-I Availability from 30 September 2011 to 24 October 2011

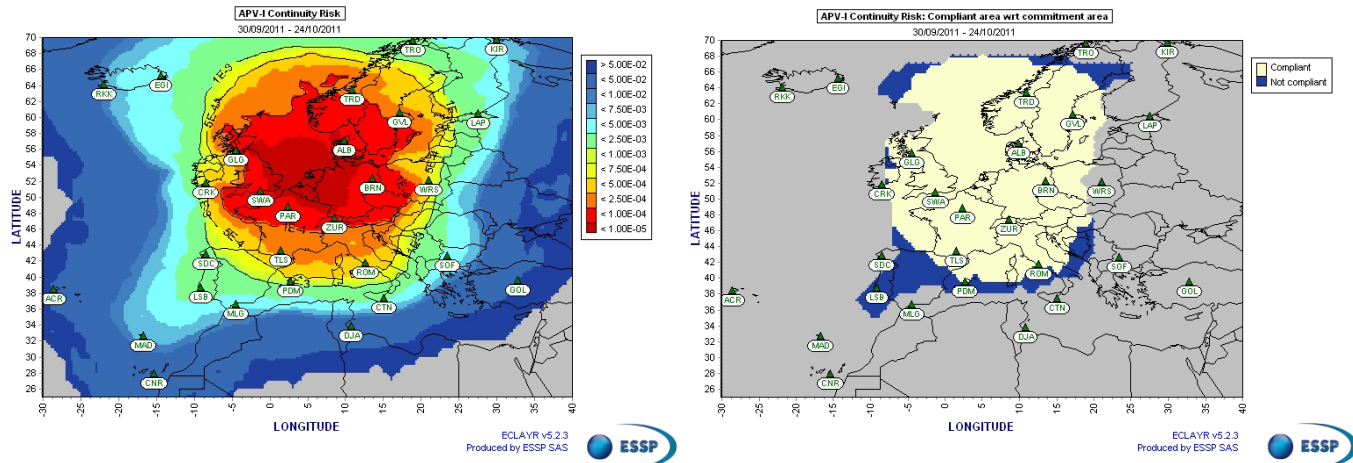


Figure 2 – APV-I Continuity from 30 September 2011 to 24 October 2011



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Preliminary investigations show that the APV-I performance degradation may be related to the combination of the following issues:

- Several satellites in the GPS constellation are subject at the moment to unavailability notices, thus lowering the number of satellites available for SBAS operations. PRN 24 is not usable since 30 September 2011 due to NANU2011083. PRN27 is also out of service since 10 August 2011.
- Solar activity has also been such that, in combination with the unavailable GPS satellites, the ionospheric monitoring capability of the system is degraded over the southern part of the service area.

2 POTENTIAL IMPACT ON THE EGNOS SERVICE AND WAY FORWARD

Considering the specific characteristics of this situation, the period during which degraded performances could be observed is yet unknown.

As a consequence and until further notice, EGNOS SoL service users shall consider that the EGNOS service could be unavailable in an area similar to the one shown in the previous maps (South of Europe below latitude 45°N) during time periods similar to ones observed until now (15h to 21h UTC approx.). The EGNOS service integrity is however not affected by this situation. SoL users are recommended to take this situation into consideration when planning their operations.

This issue has been given the highest priority. Actions are currently on-going to complete the analysis and to identify potential mitigations or correction of this issue.

Additional information will be provided in future releases of this Service Notice.

CONTACT US

Should you have any question related to this Service Notice or EGNOS Service Provision, please, contact Egnos-helpdesk@essp-sas.eu

For more information about EGNOS Service Provision, please, visit ESSP website at www.essp-sas.eu and user support website at <http://egnos-user-support.essp-sas.eu>