



EGNOS Maritime Campaign Ireland 2022

EGNOS workshop

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Ireland Campaign Route



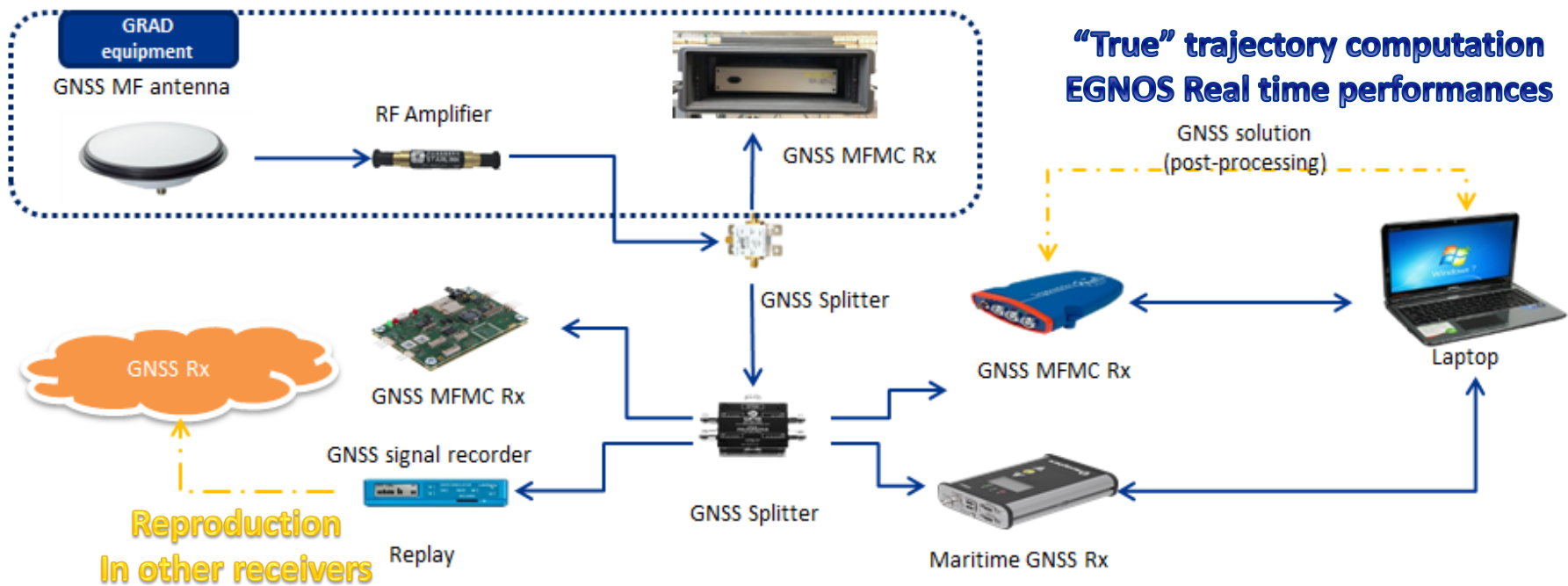
Route: from Killybegs (17/08/2022) to Dublin (15/11/2022).

*Support from Commissioners of Irish Lights and
GLA Research & Development*



Vessel: ILV Granuaile

GNSS equipment



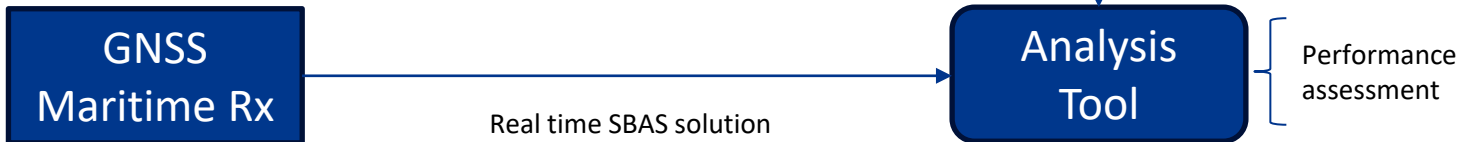
EGNOS performance assessment methodology

☐ Methodology

➤ Reference position determination

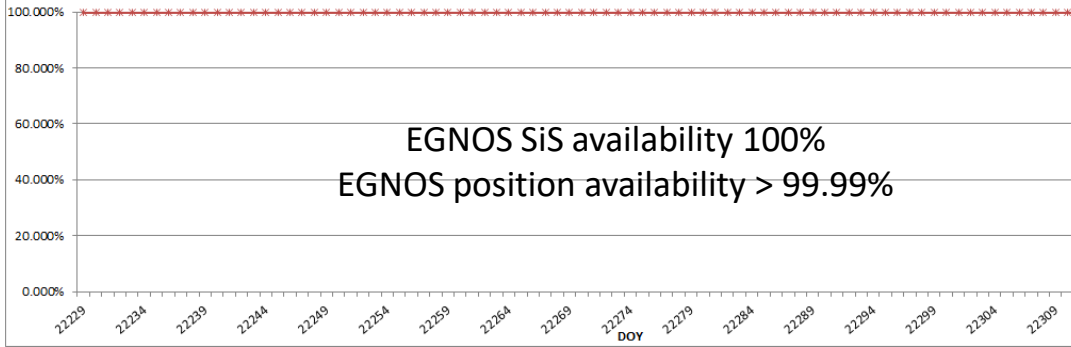


➤ EGNOS position solution analysis

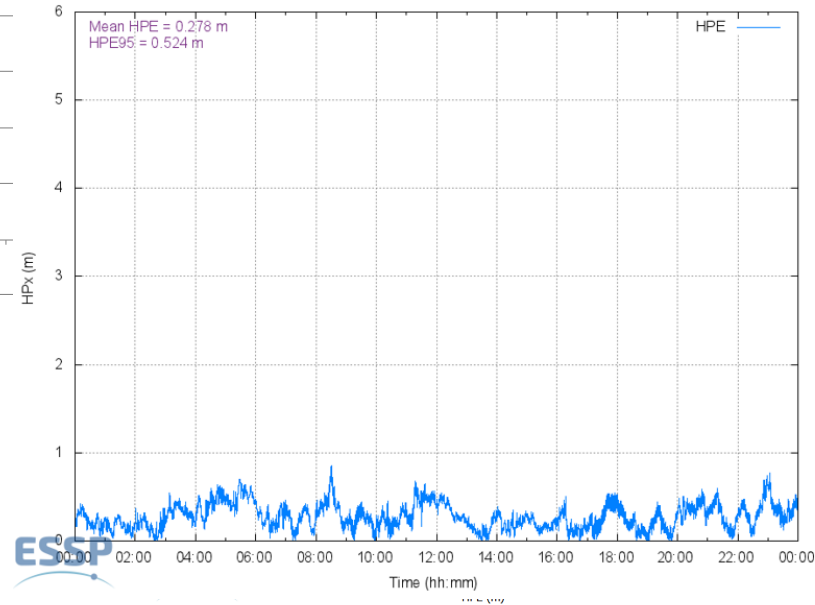


EGNOS performance Ireland campaign

EGNOS position availability at receiver level

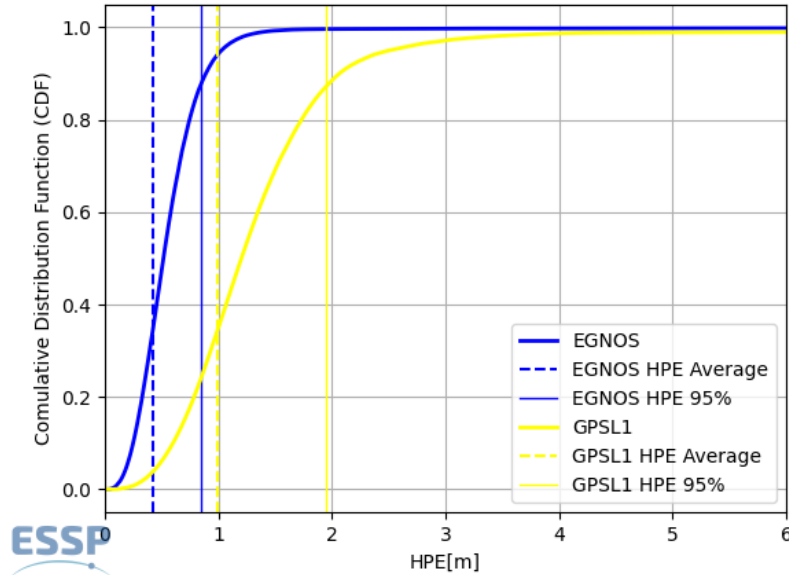


23/08/2022 00:00:00 to 23/08/2022 23:59:58
HPE - EGNOS solution - Maritime Rx



EGNOS performance Ireland campaign

HPE CDF- EGNOS vs GPSL1



EGNOS provides a significant improvement in accuracy compared to the GPS L1 standalone solution (56% enhancement in HPE).

Conclusion

- ❑ The computed values met the requirements, for navigation in ocean waters, harbour entrances, harbour approaches and coastal waters, stated in IMO Res. A.1046 (27).
- ❑ Thanks to:
 - The Commissioners of Irish Lights for permitting ESSP to install EGNOS equipment on-board ILV Granuaile.
 - To GRAD, the General Lighthouse Authorities' (GLA) Research and Development Directorate, for allowing the use of their GNSS installation, thereby facilitating this GNSS data campaign along the Irish coast.
 - To European Union Agency for the Space Programme and the European Commission for their efforts at the programme level for the definition of the EGNOS L1 maritime service.



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Corporate Video

Thank you!