ABSTRACT SUBMISSION –– SOUMISSION DE RESUME

**Topic No.: / Sujet n°: 6 or / ou**

**Proposed topic / sujet proposé: Satellite based Augmentation Systems (SBAS)**

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ABSTRACT / RESUME:

**GNSS have become the primary means of obtaining Position, Navigation and Timing (PNT) information at sea. The current capabilities of the GPS constellation, although adequate, have some shortfalls: some user communities have a need for enhanced performance and they can benefit from the available "augmentation" techniques, resulting in improved GPS performance.**

**Nowadays, users can take advantage of satellite based augmentation systems (SBAS). The maritime community has been using SBAS for several years and it is supported by GNSS receivers used in the recreational and professional sectors. SBAS/EGNOS can also be used to complement DGNSS for the provision of enhanced accuracy and integrity information with additional benefits, including an increased safety of navigation at sea.**

**There are different possible solutions for the transmission of SBAS/EGNOS corrections to maritime users, and some of them are already under development. The European Commission and GSA, in collaboration with the ESSP, are working to define and implement new, specific EGNOS Maritime services based on operational requirements established by IMO that can benefit the safety of navigation in combination with the current DGNSS. The Maritime community is supporting this process through various fora as IALA ENAV Committee, helping in the introduction of SBAS-based solutions from a regulatory, standardisation, technical and operational point of view.**

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