

**11 – TECHNICAL ACTIVITIES****11.4 – ENAV****11.4.7 – Draft Guideline 1119 on Marine Beacon Coverage Prediction**

Note by the Secretariat

1. BACKGROUND

Many maritime administrations provide marine beacon differential GNSS correction services. IALA Guideline 1112 'Performance and monitoring of DGNSS services in the frequency band 283.5-325 kHz' [1] recommends that service providers advertise the coverage area of their systems.

2. GUIDELINE ON MARINE BEACON COVERAGE PREDICTION

This is a new Guideline.

Calculating the coverage area of a radiobeacon is a complex process taking into account the impact of signal attenuation, interference and receiver requirements. Purpose defined DGPS coverage prediction software is available.

The aim of Guideline 1119 on Marine Beacon Coverage Prediction is to provide guidance on calculating the expected signal strength of a single radiobeacon under different conditions. Repetition of the approach could then be used to give an indication of coverage areas of DGPS systems.

The finalised document is submitted as input paper C63-11.4.7.1

3. THE COUNCIL IS REQUESTED TO

Approve the draft Guideline 1119 on Marine Beacon Coverage Prediction.