

## LIAISON NOTE TO CIRM

### Enhanced Radar Positioning System

#### 1 INTRODUCTION

Over the last ten years, IALA, with the cooperation of Furuno Electric, Tideland Signal, DAMSA, GLA<sup>1</sup> and Singapore MPA, has conducted experiments with what is being called Enhanced Radar Positioning System (ERPS). Results have been reported in several IALA committee input papers and in two IALA Conference papers.

Attached, please find a copy of the paper “Enhanced Radar Positioning Systems for Resilient Positioning” presented at the 2018 Conference in Korea.

#### 2 RESILIENT PNT

IALA considers ERPS as a complementary system to GNSS in support of resilient PNT service per IMO e-Navigation strategy implementation plan. IALA believes there is great benefit to the use of ERPS and supports international cooperation towards standardization of the approach. Standardization is a large project that will include organizations such as IMO, ITU and others. Compliance to standards will require cooperation from radar and racon manufacturers.

#### 3 ACTION REQUESTED

CIRM is requested to:

- 1 Review the ERPS document and comment on the concept as appropriate.
- 2 Consider supporting the ERPS approach and participate in standardization.

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<sup>1</sup> The General Lighthouse Authorities of the United Kingdom and Ireland