



# 19<sup>th</sup> IALA Conference 2018

## Incheon, Republic of Korea

### ABSTRACT SUBMISSION — SOUMISSION DE RESUME

**Topic No.: / Sujet n° : 4 or / ou**

**proposed topic / sujet proposé: Marine Aids to Navigation in a developing technological and behavioral environment**

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#### **ABSTRACT / RESUME:**

**TITLE: The Real-time Tidal Current Observation System with AtoN AIS in Jindo Coastal Straits.**

The Jindo Strait is one of the fastest tidal current areas in South Korea, which recorded over 11 knots of tidal current speed. To provide the tidal current condition in real-time for vessel traffic safety, MOF (Ministry of Oceans and Fisheries) has installed tidal current observation system and data service & operation center in the coastal areas. The horizontal ADCP and marine observation buoy was deployed in Myung-Rang and Jang-Juk water ways, and the real-time tidal current speed and direction transmitted to the data service center, which also operate data assimilation and quality control process. The tidal current condition provides with big signal display panels, AtoN AIS, and web based service system. This system has proven to prevent marine accidents caused by current influence on vessels navigating through Jindo coastal water ways. Also, the system will be very helpful to support safe and efficient maritime commerce and informed coastal resource management.