

**IALA COUNCIL
80th session****24-28 June 2024
Istanbul Türkiye****7 - NATIONAL MATTERS (REPUBLIC OF KOREA)****1. Enactment and Implementation of the Lighthouse Preservation and Utilization Act**

Korea has recently enacted the "Act on the Preservation and Utilization of Lighthouse Heritage," aimed at preserving and utilizing lighthouse heritage with significant historical and aesthetic value. This Act, proposed on March 29, 2023, passed on December 20, 2023, and promulgated on January 23, 2024, is scheduled to be implemented starting January 24, 2025. Currently, efforts are focused on drafting subordinate legislation to detail the delegated matters under the Act.

By detailing the preservation and utilization of these cultural assets and creating dedicated lighthouse cultural spaces, the Act aims to transform lighthouse heritage into a sustainable resource for marine tourism. This initiative is expected to enhance the quality of life for the public and foster the development of marine culture.

2. Advancement of the enhanced Long Range Navigation system(eLoran)

In response to potential interruptions in satellite navigation systems, such as those caused by GPS jamming, Korea is establishing an enhanced Long Range Navigation system(eLoran). Its Initial Operation Capability(IOC) was scheduled from July 2021, following the stabilization of transmitting stations in Socheongdo and Gwangju. This system will provide high-quality signal coverage for navigation services in the West Sea and metropolitan areas, as well as nationwide time synchronization capabilities.

The key advancement projects of eLoran have executed from 2024 to 2027, to provide comprehensive regional services and achieve world-class performance. This includes the development of high-power transmitters(150kW), high-precision time synchronization, and Terrestrial Wide Area Augmentation System(TWAS). Additionally, to ensure uninterrupted service in the northern West Sea, the Socheongdo eLoran transmitting station will be dualized between 2024 and 2025.

3. World Marine AtoN Day Ceremony and Korea Lighthouse Week

The World Marine AtoN Day Ceremony in Korea will be held in Gangneung, Gangwon-do. The Jumunjin Lighthouse, '2024 the Lighthouse of the Year of Korea' is located in the province. The commemorative ceremony is scheduled for July 3, 2024. Participants will be the Minister of Oceans and Fisheries, members of the National Assembly, local government officials, business leaders, as well as citizens and international special guests from China and France. The celebration will feature commemorative speeches, congratulatory addresses, award ceremonies, and special exhibitions.

In recognition of the celebrations, MOF will designate 'Korea Lighthouse Week from July 1 to July 7, 2024. During this period, a variety of events will be held at the National Lighthouse Museum and various marine cultural spaces. These activities will include Lighthouse Camp,

Painting Lighthouse, Hiking Festival around a lighthouse trail, Lighthouse picture exhibition and etc. to intrigue the public and promote interest in lighthouse heritage.

Additionally, the International Aids to Navigation Forum will take place on July 2, 2024. This forum will bring together experts to discuss various topics related to the value of World Lighthouse Heritage, encompassing architecture, science, art, culture, and oceanography. It aims to foster a fruitful exchange of ideas among participants from diverse communities.

Lastly, Korean Delegate will participate in the IALA World Marine Aids to Navigation Day celebrations in Italy from July 2 to July 3, 2024. Their participation will foster international networking opportunities through the lighthouse and make chances to exchange each culture.

4. Promoting the Development of Smart AtoN and Related Technologies

Korea is actively promoting the development of Smart Aids to Navigation (AtoN) technologies. The focus is on creating AtoN field facilities based on multi-purpose platforms and transitioning from outdated analog systems to a digitalized, integrated information system.

Key projects include developing advanced AtoN equipment and multimode communication technology to enhance the management, inspection, and maintenance of on-site AtoN facilities. Additionally, there is significant emphasis on creating a digital information system capable of collecting, integrating, analyzing, and disseminating AtoN data. This system will support new technologies to ensure a safe and reliable marine transportation environment.

In line with international trends, Korea is advancing digital and standardized AtoN technologies. This involves building a comprehensive maritime wide-area infrastructure adaptable to future changes. The project, spanning from 2021 to 2025, aims to develop Smart AtoN field facilities and a digital AtoN information system, ensuring Korea's leadership in maritime safety and technology.

5. Dispatching an AtoN Official to IALA

To support policy and technical advice to IALA Members, Korea is dispatching a dedicated official to the IALA. The dispatched official will play a crucial role in coordinating various international Aids to Navigation (AtoN) meetings and contributing to the modernization and standardization of AtoN practices globally.

A key focus of his work will be participating in the modernization of AtoN symbols in nautical charts, in collaboration with the International Hydrographic Organization (IHO) through a joint working group. This collaborative effort aims to standardize and unify the symbol notation used in both IALA and IHO practices, ensuring consistency and clarity in maritime navigation worldwide.

The deployment of a Korean official to the IALA headquarters from September 21, 2024 to February 24, 2025, underscores Korea's commitment to supporting IALA.

6. THE COUNCIL IS INVITED TO

Note the information provided in the report.