Japan’s Cooperation to Enhance Safety of Navigation in the SOMS

Maritime Bureau, MLIT-Japan
October 2-3, 2017

The 10th Co-operation Forum under the Co-operative Mechanism in the Straits of Malacca and Singapore
Comparison of Transiting Vessels among the Three Vital International Shipping Passages

(Number of Vessels)

※1 Source: Suez Canal Authority
※2 Source: The Japan Association of Marine Safety
※3 Source: Autoridad del Canal de Panama
Estimated Traffic Volume in SOMS

1000M. DWT

Dead Weight Tonnage

1994 2.5 60%
2004 4.0 75%
2012 7.0 164%
2020 12.1
2030 18.5

Number of Transiting Vessels

1994 75 25%
2004 94 35%
2012 127
2020 171
2030 226

Source: 2012 Survey by The Nippon Foundation
Japan still remains at the first place in 2012

**2004**
- Japan, 15.1%
- Singapore, 13.1%
- Germany, 9.8%
- China, 8.1%
- Greece, 8.3%
- Indonesia, 5.8%
- Taiwan, 4.1%
- Korea, 3.1%
- Malaysia, 3.8%
- Thailand, 3.1%
- Others, 26%

**2012**
- Japan, 13.3%
- Singapore, 7.9%
- Germany, 11.3%
- China, 10.3%
- Greece, 8.5%
- Korea, 3.9%
- Indonesia, 5.6%
- Taiwan, 3.9%
- Thailand, 2.5%
- Luxembourg, 3.6%
- Others, 29.1%

Source: The Nippon Foundation
• Greece and China have come ahead of Japan
Japan’s contributions before the Cooperative Mechanism

- Removal of Four shipwrecks 1973-1978
- Donations
  - Buoy Tenders to Indonesia and Malaysia 1976, 2002 and 2003
  - Dredging work in the Strait of Singapore 1979
  - Revolving Fund 1981
  - Oil Skimming Vessel to Singapore 1973

In Total USD150 M
Japan’s contributions to the Cooperative Mechanism

- **Project 3 (2011):**
  
  Trial of AIS-B transponders on small vessels in the Singapore Strait
  - Donated 10 AIS class B transponders
  - Assessed reliability of AIS class B transponders

- **Project 5 (2008- ):**
  
  Maintenance and replacement of aids to navigation
  - Supporting the project through in-kind cooperation
  - Japanese private sectors have contributed USD10.4M to ANF

- **Project 13 (2016- ):**
  
  New study for the safety of navigation in the SOMS
  - Introduction of Partial Navigational Restrictions in the TSS
The Framework of Japan’s Contribution to the Project 5

**Government**
- JSA
- PAJ
- FEPC
- JGA
- Others

**Japanese Shipowners’ Association**

**Petroleum Association of Japan**

**Federation of Electric Power Companies**

**Japan Gas Association**

**Nippon Foundation**

**MSC**

**ACTION**
- In-Kind Cooperation
  - Preliminary Survey
  - Capacity Building
- Maintenance and Replacement of AtoNs

**JA P A N**

**$ 2M [2008-17]**

**$ 3.0M [2009-17]**

**$ 6M [2009-13]**

**$ 1.4M [2008]**

**1.** Japanese Shipowners’ Association
**2.** Petroleum Association of Japan
**3.** Federation of Electric Power Companies
**4.** Japan Gas Association
In-kind contributions to the **Project 5**

1. Technical workshops
   - Every year since 2011
   - Five participants from each Littoral State

2. Preliminary survey works to AtoNs
   - Done at 19 sites since 2009
Japan’s Contribution to the Project 5
(Technical Workshop in Malaysia)

At the entrance of MATRAIN

Lecture

VTS Center

On board Training
Japan’s Contribution to the Project 5 (Preliminary Survey Works)

- 2010 One Fathom Bank RLB (south-west)
- 2010 Gosong Pasir LB
- 2013 Off Tanjung Medang LB
- 2016 Tanjung Piai LBn
- 2011 Raleigh Shoal LB
- 2012 One Fathom Bank RLB (north)
- 2012 One Fathom Bank RLB (south)
- 2010 Sepat RLB
- 2011 Rob Roy Bank LB
- 2016 Tanjung Tohor LBn
- 2009 Nipa RLB
- 2015 Durian LB (north)
- 2015 Durian LB (south)
- 2017 Durian LB (south)
- 2014 Helen Mars LB
- 2014 Batu Berhanti LB
- 2014 Batu Berhanti LBn
- 2015 Takon LB
- 2017 Takon LBn
- 2009 Nipa RLB

(Additional locations and years marked on the map.)
Joint Hydrographic Survey in the Soms

Objective

➢ To ensure safety of navigation and protection of marine environment in the Soms through updating electronic navigational charts (ENCs) surveyed in 1998 with multi-beam echo-sounders.

Development

➢ The project was authorized by the 39th Tripartite Technical Expert Group (TTEG) held in Malaysia in 2014.

Phase I (2015 – 2016)

• Five critical areas in the Traffic Separation Scheme (TSS)
• Funded by the Japanese Shipowners’ Association etc.

Phase II (2017 - 2020)

• Entire/main area of the TSS except for the Five critical areas
• Founded by the Japan-ASEAN Integration Fund (JAIF)
• JAIF application was submitted in March 2016 and has been approved in July 2016
Thank you