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Sea Lane and Shipping Industry

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1. The Sea Lane

2. Malacca-Singapore Straits
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   2.2 Security Issues (Piracy)
   2.3 Countermeasures

3. Arabian Gulf
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1. The Sea Lane
The Sea Lane

Arabian Gulf

Malacca/Singapore Straits
Today’s focus: Japan-Arabian Gulf Lane
2. Malacca-Singapore Straits
2.1 Navigation Hazards

One Fathom Bank
Depth: 23.0m
Navigable width: 1,350m

Batu Berhanti
Depth: 22.5m
Navigable width: 550m

Eastern Bank
Depth: 23.5m
Narrow passage window for shallow water

- Tide
- Minimum depth of water in Batu Berhanti: 22.5m
- Maximum Draft 21.0m
- UKC 3.5m
Poor maintenance of navigational aids

Takong Beacon Found 20 Kilometers away from Normal Location
Vessel Traffic Control
Heavy traffic

As of 0900JST/October 05
31 NYK ships in the area
Collision case off Singapore

Collision between MV HYUNDAI No 105 and MV KAMINESAN in Position Lat 01-12.9N Long 103-53.5E at 2345 hrs on 22 May 2004.

HYUNDAI No 105 sank in Position Lat 01-13.3N Long 103-57.7E at 0715 hrs on 23 May 2004.

MSC KAMINESAN anchored in Position Lat 01-12.1N Long 103-54.6E at 0030 hrs on 23 May 2004.
2.2 Security issues (Piracy)

- Simple burglary cases
- Armed piracy to knock over whole ship and/or cargo
- Kidnapping (Including politically-motivated case)
ALANDRO RAINBOW case

1999.10.22
The vessel being hijacked by pirates after sailing Sumatra. The pirates blinded all crew and took them to small boat, then took control of ALANDRO RAINBOW.

1999.11.21
Found by Indian Navy vessels at 300 nautical miles from Mumbai.

Ship’s name had been changed, and 7,000 tons of aluminum ingots had been sold already.
2.3 Countermeasures

<Navigation>

◆ Enhance BTM (Bridge Team Management) by establishing the training program by simulators
◆ Standardized and well-planned Passage Plan

<Maintenance of navigational aids>

◆ 45 navigational aids out of 51 in the straits were built by the Malacca Straits Council, with funding from The Nippon Foundation.
Alternative Routes

South China Sea

Kra

Malacca blocked

Sunda

+539 Miles compare to Malacca passage

Lombok

+1,090 Miles compare to Malacca passage
3. Arabian Gulf
3.1 Basrah Tragedy

While NYK-operated VLCC “TAKASUZU” alongside Basrah terminal, explosives-laden speedboat blew up nearby and killed 3 military personnel.

2004.4.25

VLCC “TAKASUZU”
自燃テロに攻撃された日本船

「命網」の守りは多国籍軍任せ

ミャンマー

安保理
3.2 Countermeasures

What can shipping lines do to protect the fleet?

“Passive” security only...
Hardware

- FROM (Fleet Remote Monitoring System)
  - SEA-JACK Alarm

- Satellite Phone “ILLEDIUM system”

- Development of High-illuminaiton searchlights
  (JACK LIGHT)
Carry out joint exercises with authorities
Collecting Information

Lloyd’s, UK

MARLO, Bahrain

NYK LOGISTICS & MEGACARRIER

Security Consultants

UKMTO, Dubai
May all voyages be boring