



IIPS

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Sea Lane and Shipping Industry

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Sea Lane and Shipping Industry

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IIPS International Conference



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NYK LINE

Sea Lane and Shipping Industry

1. The Sea Lane

2. Malacca-Singapore Straits

2.1 Navigational hazards

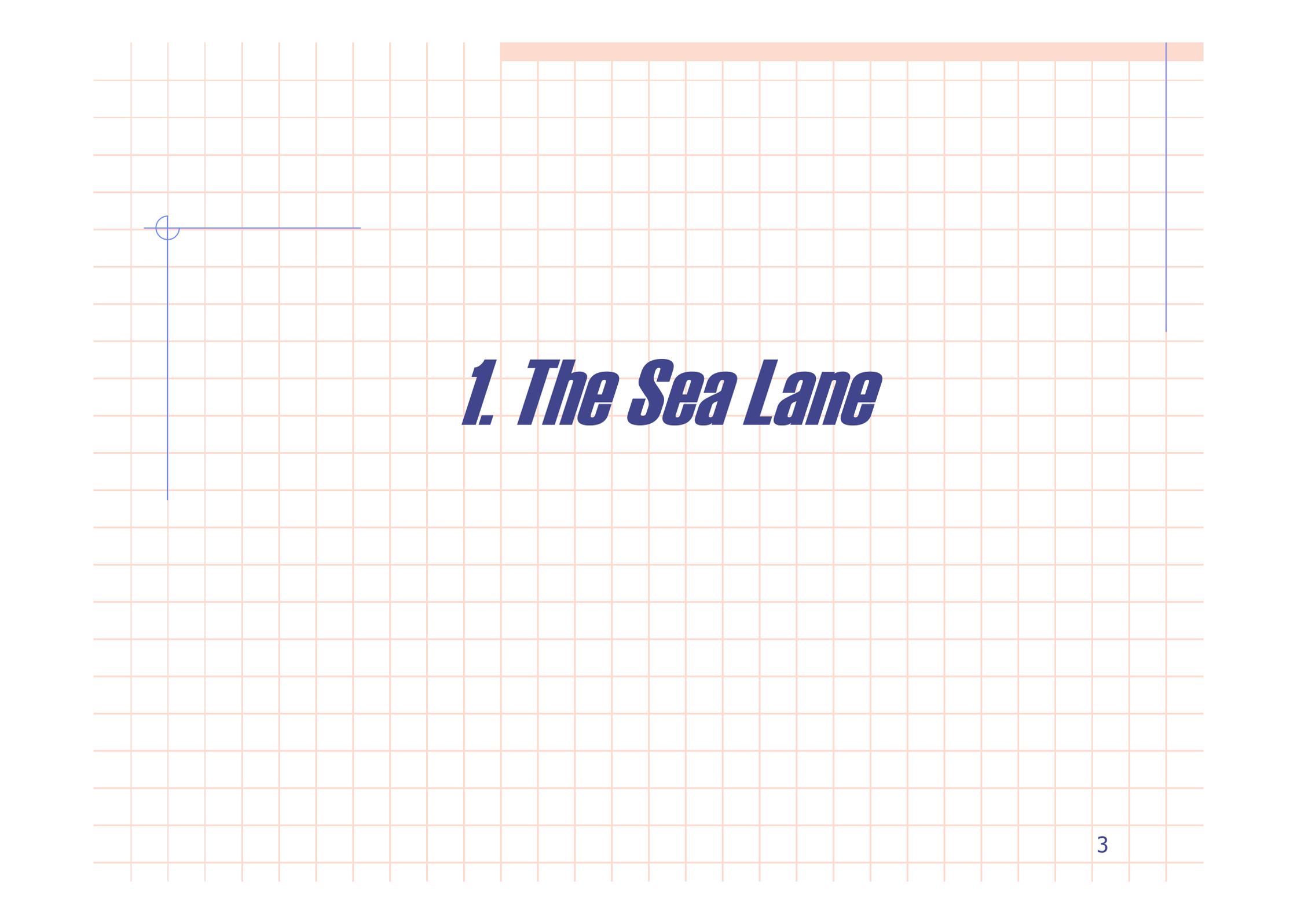
2.2 Security Issues (Piracy)

2.3 Countermeasures

3. Arabian Gulf

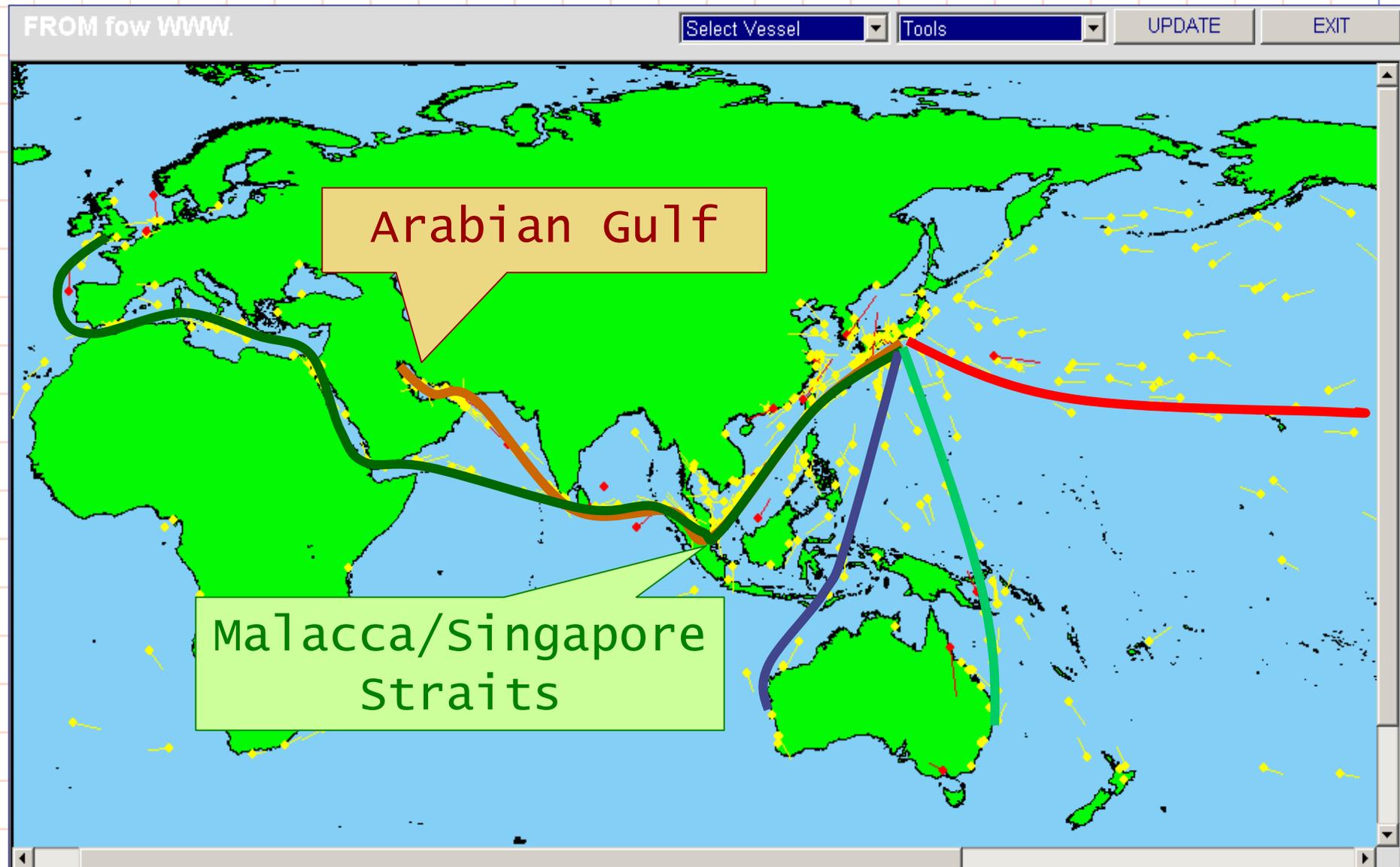
3.1 Basrah Tragedy

3.2 Countermeasures

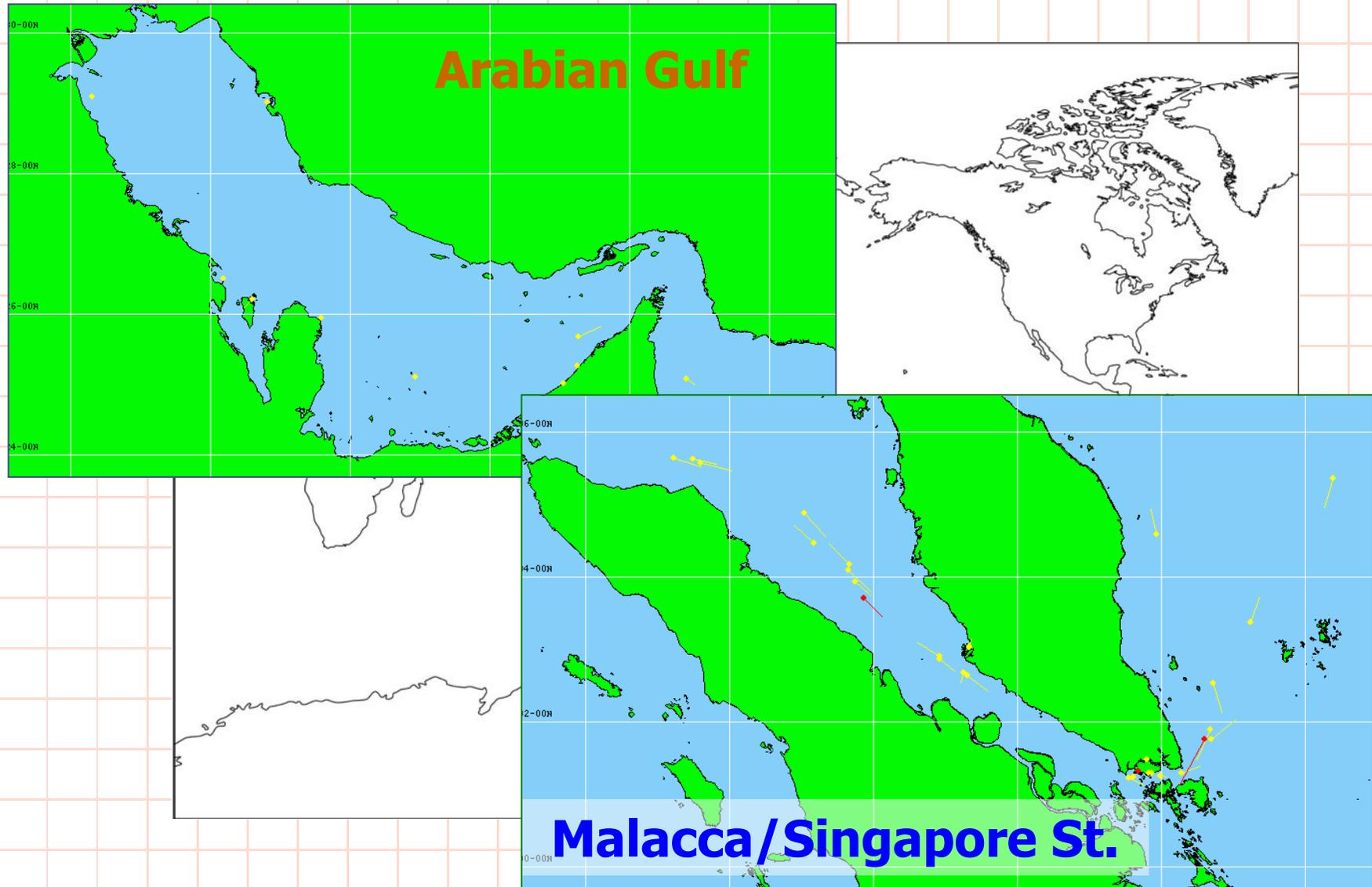


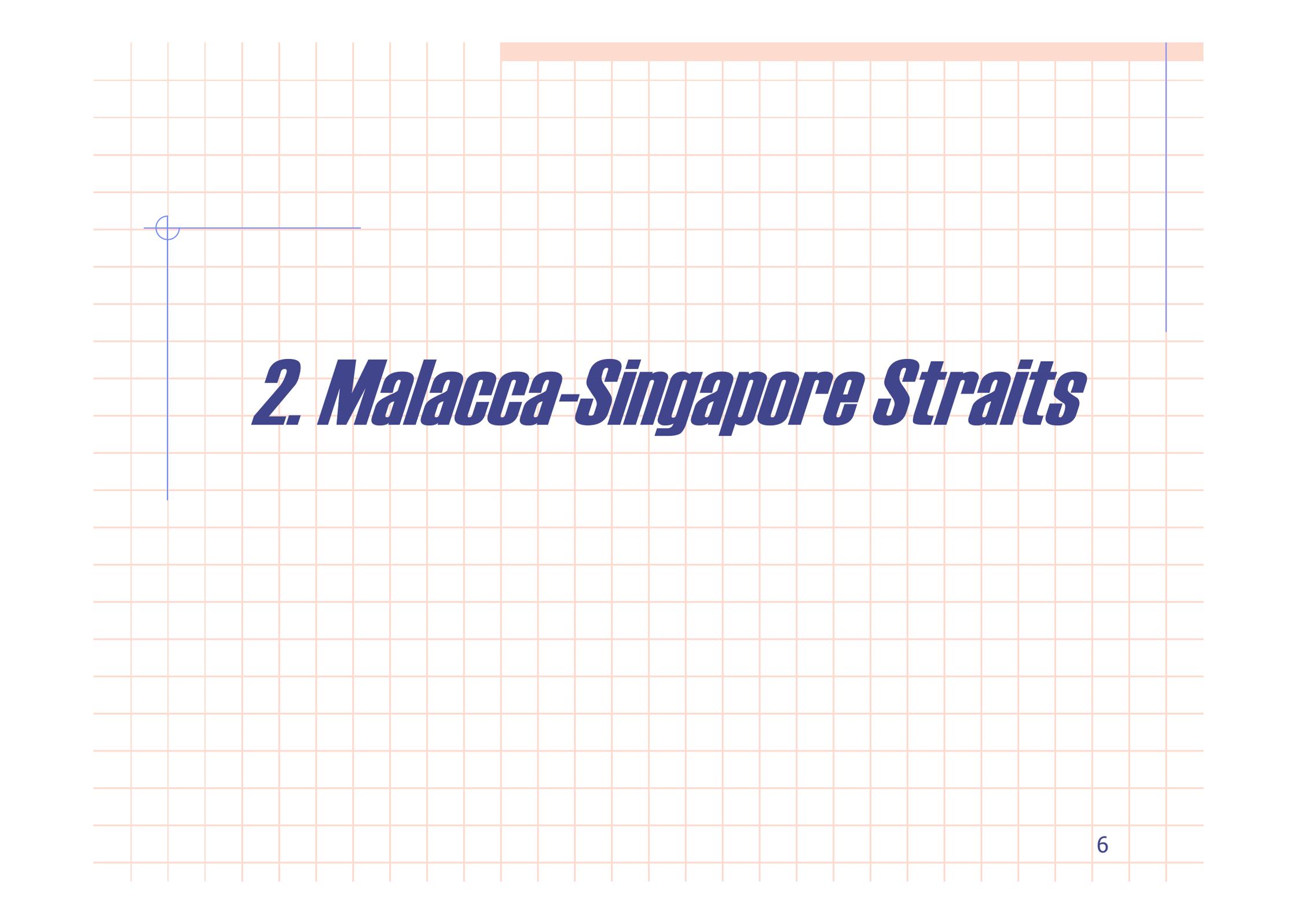
1. The Sea Lane

The Sea Lane



Today's focus: Japan-Arabian Gulf Lane





2. Malacca-Singapore Straits

2.1 Navigation Hazards

Narrow & Shallow!

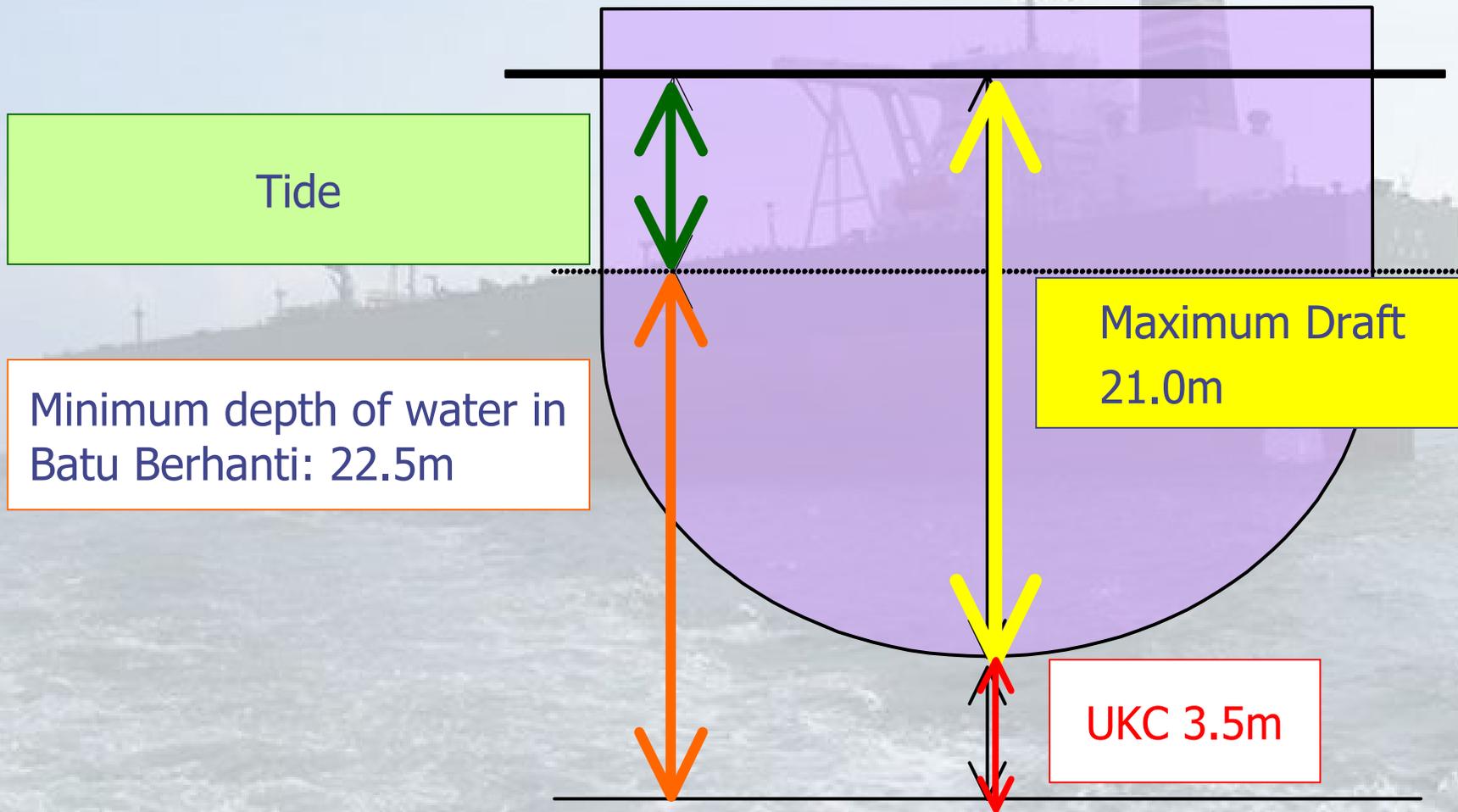
Eastern Bank
Depth: 23.5m

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

Batu Berhanti
Depth: 22.5m
Navigable width: 550m



Narrow passage window for shallow water



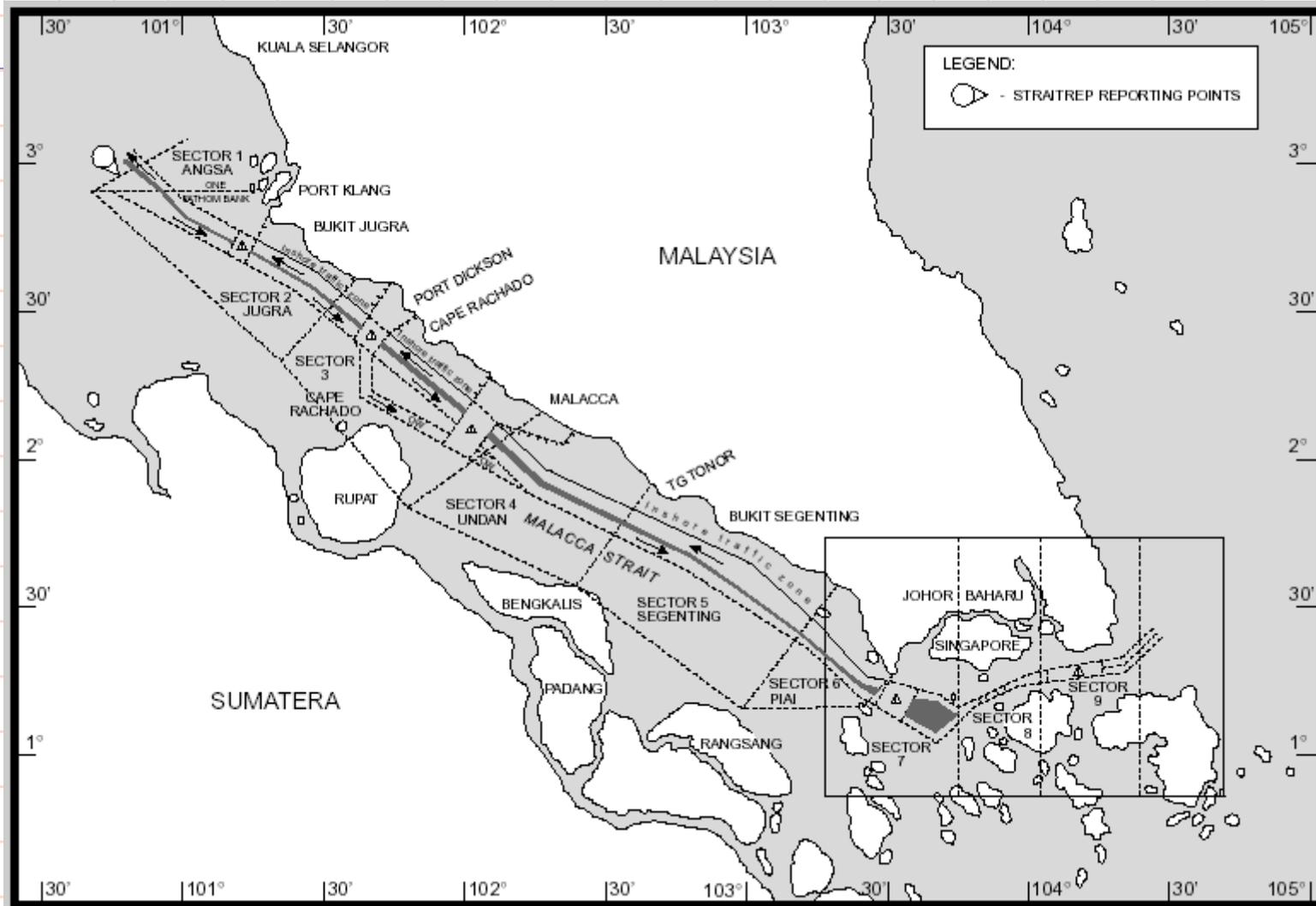
Poor maintenance of navigational aids



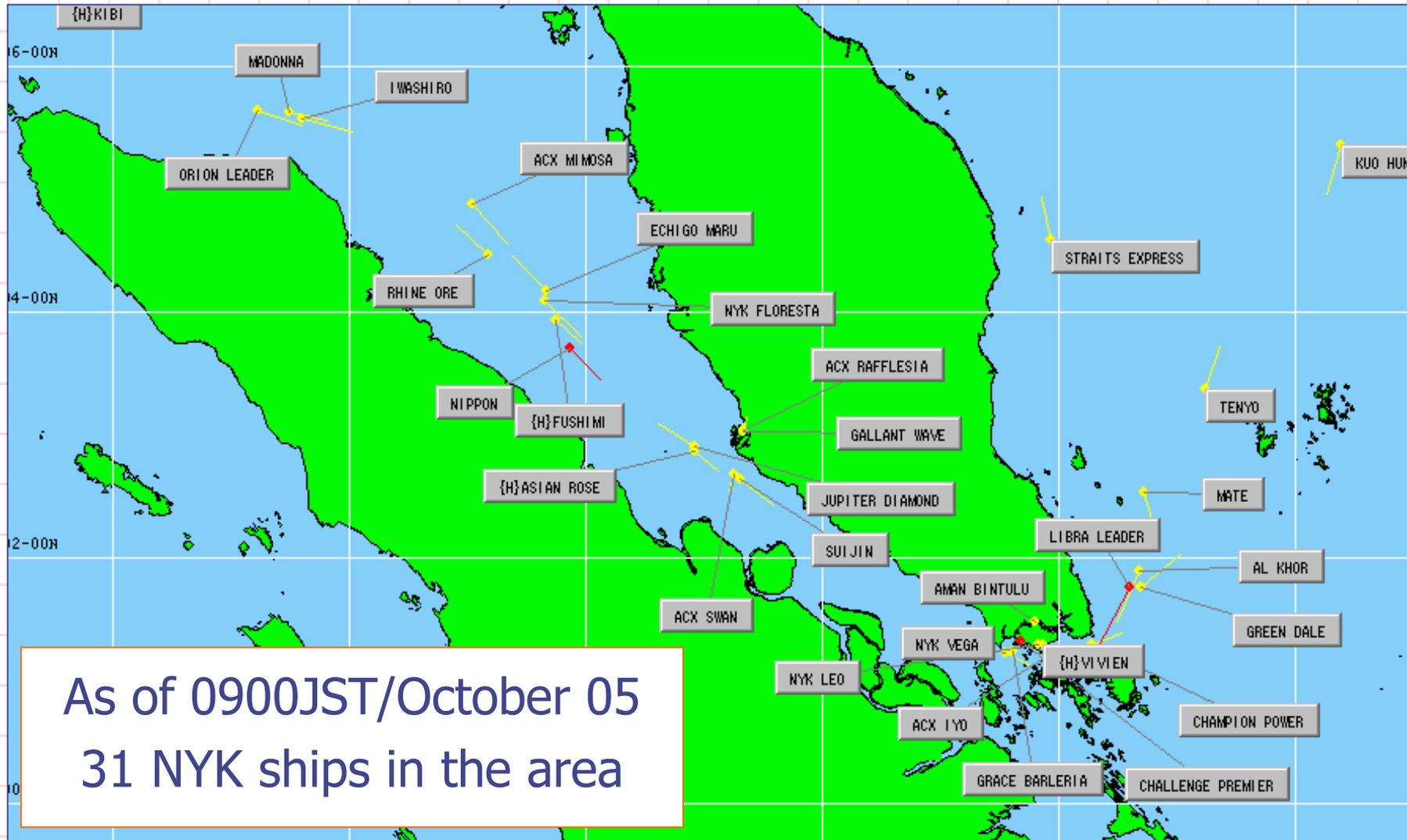
*Takong Beacon Found
20 Kilometers away from
Normal Location*



Vessel Traffic Control



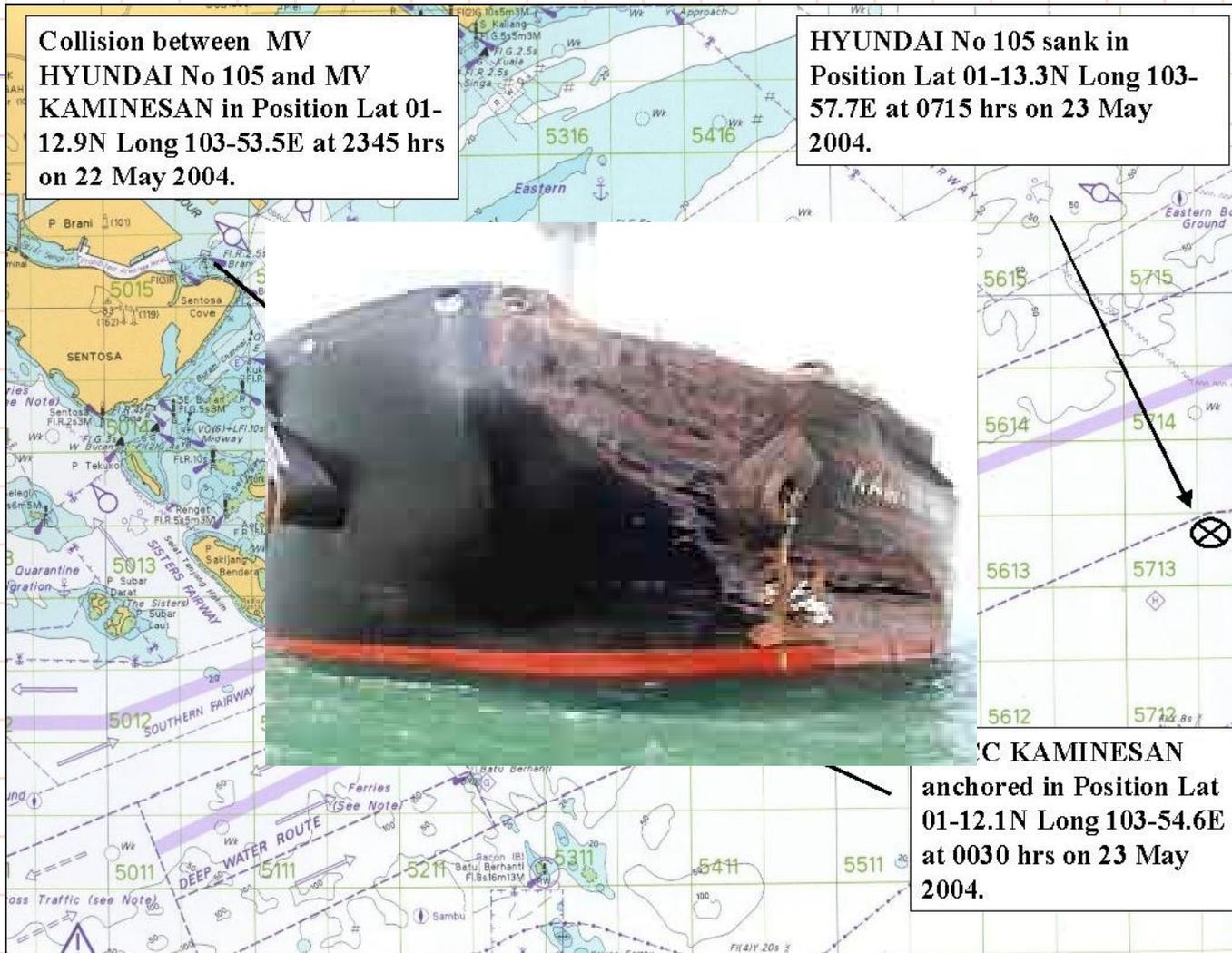
Heavy traffic



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.



MV 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

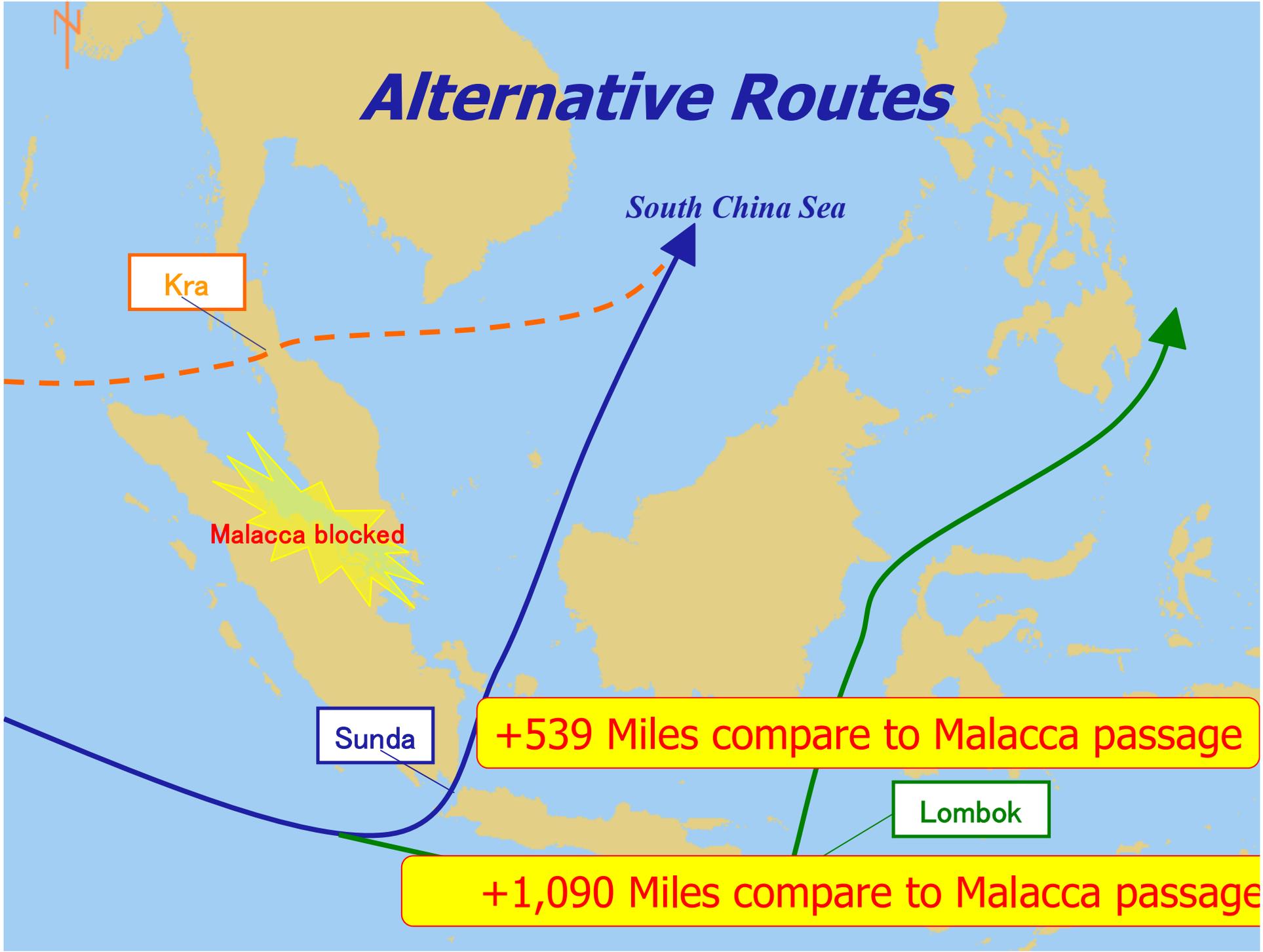
Malacca blocked

Sunda

Lombok

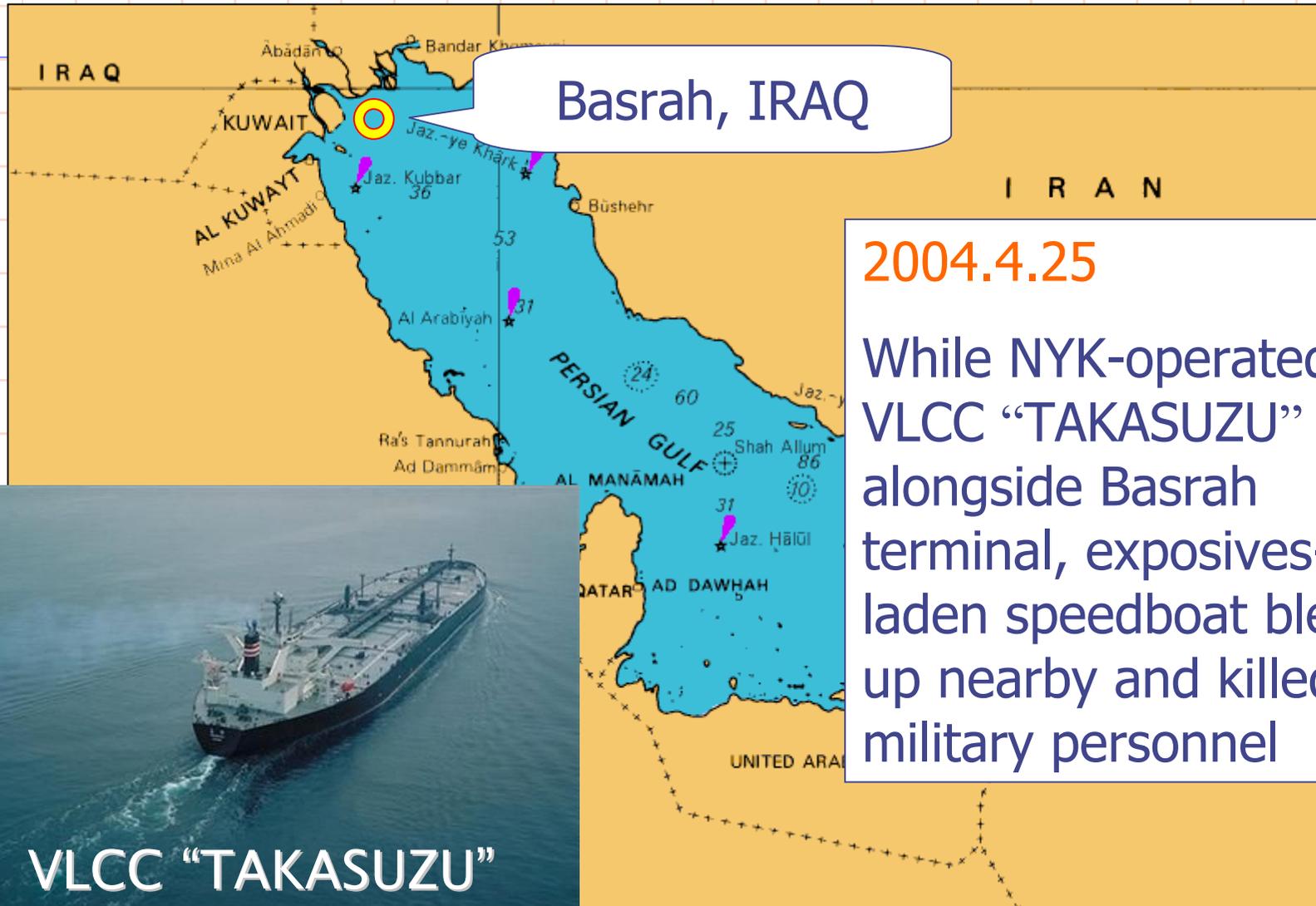
+539 Miles compare to Malacca passage

+1,090 Miles compare to Malacca passage



3. Arabian Gulf

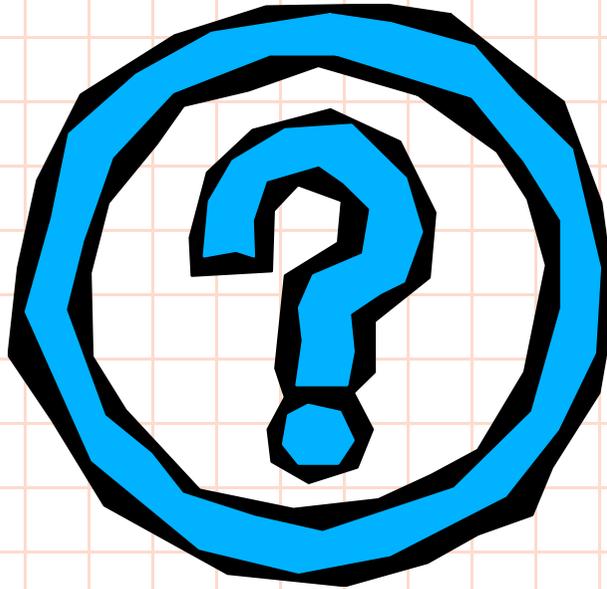
3.1 Basrah Tragedy



VLCC "TAKASUZU"

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-illumination searchlights
(JACK LIGHT)

Ship

NYKGHQ

**Carry out joint exercises
with authorities**

ERT Singapore

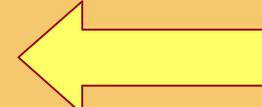
MPA Singapore

2004 9 16

Collecting Information



Lloyd's, UK



Security Consultants

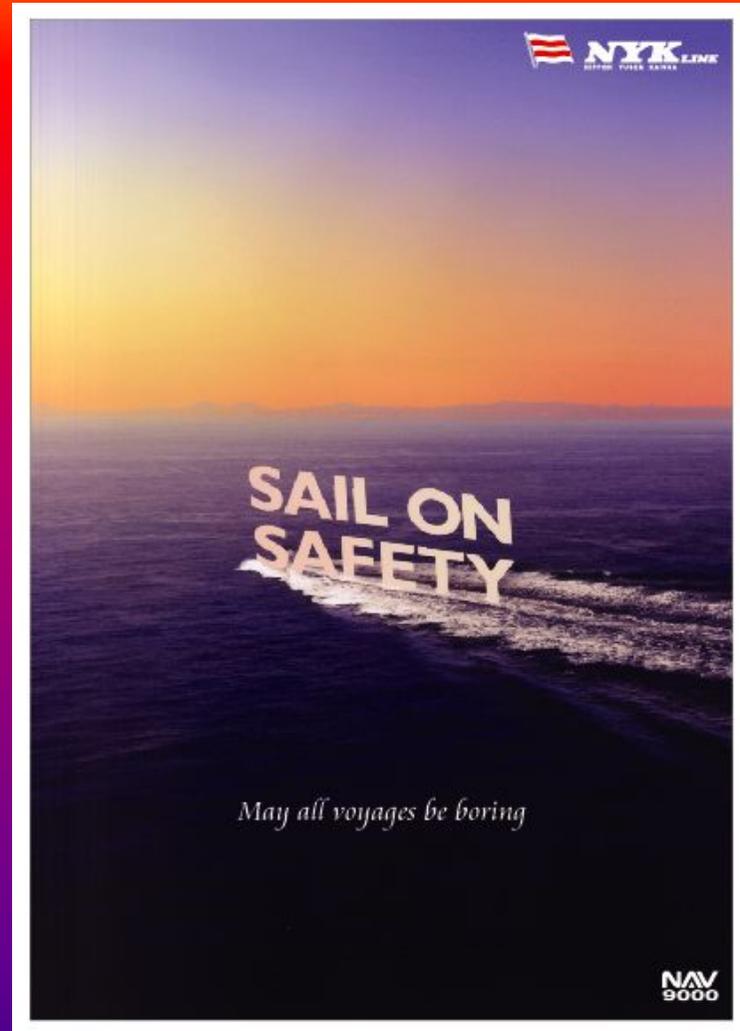


MARLO, Bahrain



UKMTTO, Dubai





May all voyages be boring...