



MARINE DEPARTMENT MALAYSIA

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Marine Environment Protection in the SOMS: Recent Views on HNS Carriage

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MOHD FAIROZ ROZALI, MMD fairoz@marine.gov.my
JALILA ABD JALIL, MIMA jalila@mima.gov.my
MUHAMMAD ROZIF ROSLAN, MIMA rozif@mima.gov.my

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INTRODUCTION

SOM Oil and Liquefied Natural Gas (LNG) Flows, 2011-2016

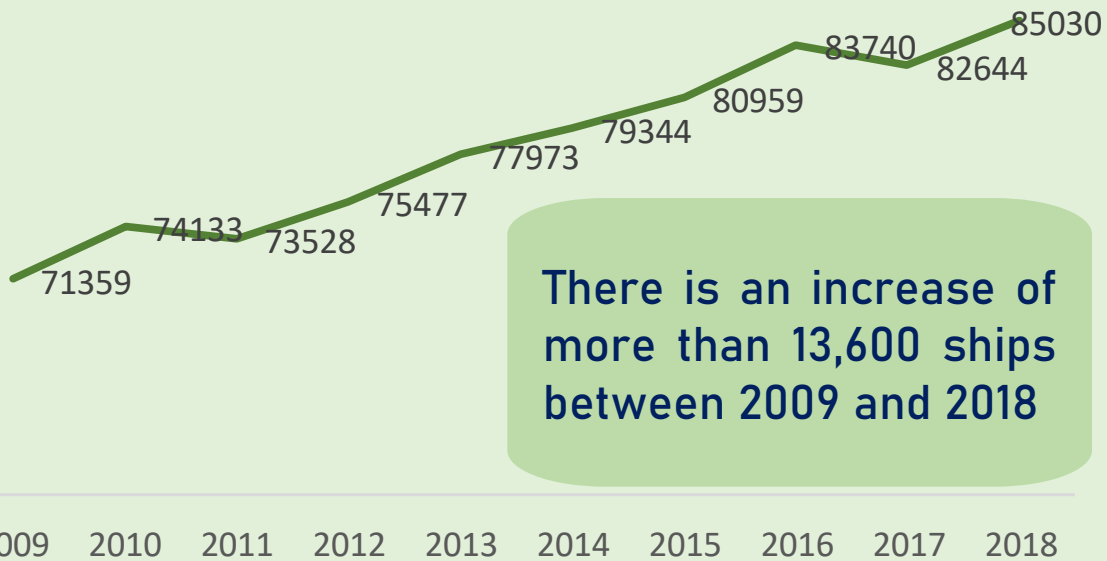
Million barrels per day	2011	2012	2013	2014	2015	2016
Total oil flows through SOM	14.5	15.1	15.4	15.5	15.5	16.0
Crude oil	12.8	13.2	13.3	13.3	13.9	14.6
Refined products	1.7	1.9	2.1	2.2	1.6	1.4
LNG (Tcf per year)	2.8	3.5	3.9	4.1	3.6	3.2

Source: Report of the World Oil Transit Chokepoints, U.S Energy Information Administration (EIA), 25 July 2017.

1. 570 miles length & key route linking east and west
2. Facilitate global seaborne trade
3. Movement of petroleum with an estimate 16.0 million barrels in 2016 > 14.5 million barrels in 2011

FACTS & FIGURES : THE STRAITS OF MALACCA

Vessels Reporting to VTS Port Klang 2009 – 2018

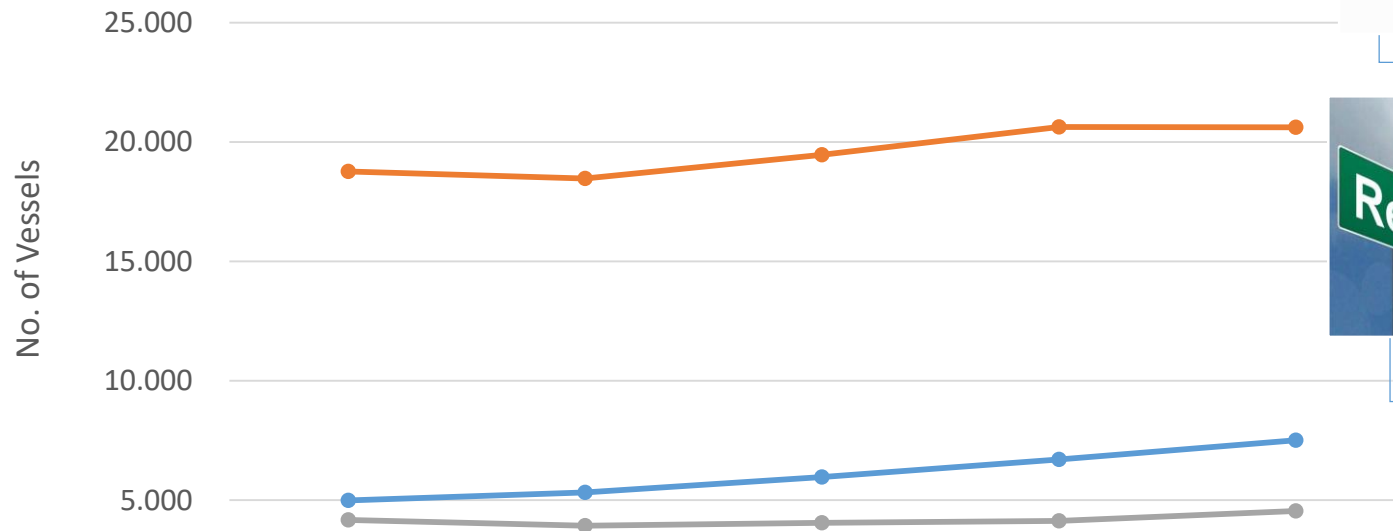


Source: Statistic 2009 – 2019 from STRAITREP, Marine Dept. Malaysia

	Numbers of Ships Reporting Under STRAITREP from 2009 Until August 2019										
	Year										
Type of Vessel	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
VLCC / Deep Draft	4221	4333	4539	4732	4825	4993	5324	5973	6711	7517	5173
Tanker Vessel	16398	16247	16223	17345	18296	18765	18470	19466	20629	20610	13399
LNG and LPG Carrier	3330	3579	3830	4014	4248	4173	3936	4057	4137	4547	2757
Cargo Vessel	8560	8445	7996	7950	7613	6989	7144	7225	7090	6409	4170
Container Vessel	22310	24806	25552	24639	24658	25071	25389	25768	24446	24578	15777
Bulk Carrier	11186	11642	10851	11678	12658	13454	15168	15547	15411	15390	10216
Ro-Ro	2394	2624	2545	2980	2998	3146	3117	2873	2414	2437	1600
Passenger Vessel	1250	1071	877	861	1063	1041	925	1294	1776	1969	1137
Livestock Carrier	43	45	47	38	55	59	76	75	50	45	21
Tug / Tow	598	545	414	529	563	676	467	580	533	601	458
Government Vessel	67	37	57	50	58	96	87	53	54	66	80
Fishing Vessel	61	20	20	52	27	51	53	25	28	36	55
Others	941	739	577	609	911	830	803	786	962	825	496
TOTAL	71359	74133	73528	75477	77973	79344	80959	83740	84241	85030	55339

FACTS & FIGURES : THE STRAITS OF MALACCA

Vessels Carrying HNS Passing SOM, 2014 to 2018



Type of ship - Chemical tankers that ply through the SOMS are not well reflected in the STRAITREP reporting.



Reporting on vessels of any tonnage carrying hazardous cargo

	2014	2015	2016	2017	2018
VLCC / Deep Draft	4.993	5.324	5.973	6.711	7.517
Tanker Vessel	18.765	18.470	19.466	20.629	20.610
LNG and LPG Carrier	4.173	3.936	4.057	4.137	4.547

Year

Source: Statistic 2009 – 2019 from STRAITREP, Marine Dept. Malaysia

FACTS & FIGURES : THE STRAITS OF MALACCA

TSS & STRAITREP

IMO Res A.375(X) –
TSS Establishment
for SOMS

Annex V of Res. set
out the Rules for
Vessels Navigating
through the SOMS

TSS & STRAITREP

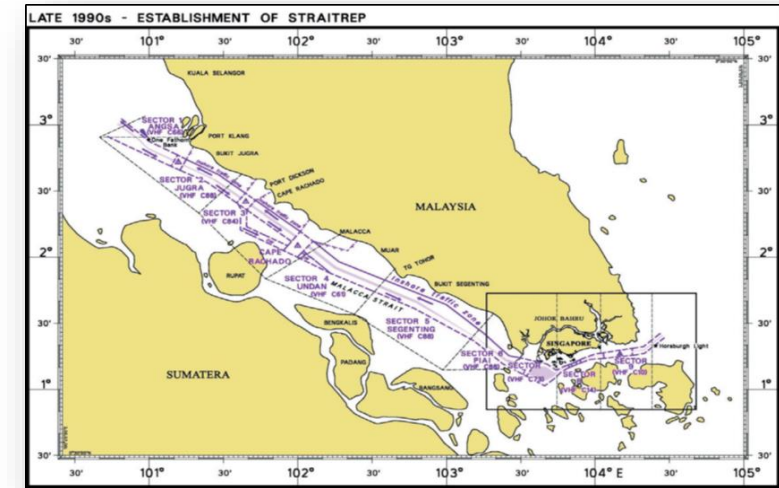
IMO Res. A.476(XII)
– The TSS
Extension

TSS & STRAITREP

IMO Res.
MSC.73(69) on
Mandatory Ship
Reporting System

Vessels of any
tonnage carrying
hazardous cargo,
defined in paragraph
1.4 of resolution
MSC.43(64);

IMO Res.
MSC.43(64),
Guidelines &
Criteria for Ship
Reporting Systems



Hazardous cargoes means:

- goods classified in the IMDG Code;
- Substances classified in Chapter 17 of the IBC Code Chapter 19 of IGC Code;
- Oils as defined in MARPOL Annex I;
- NLS as defined in MARPOL Annex II;
- Harmful substances as defined in MARPOL Annex III; and
- Radioactive materials specified in the Code for the Safe Carriage of Irradiated Nuclear Fuel, Plutonium and High-Level Radioactive Wastes in Flasks on Board Ships (INF Code).

HAZARDOUS & NOXIOUS SUBSTANCES (HNS)

- Malaysia and Singapore party to the OPRC/HNS 2000 Convention . Yet on the HNS Convention 1996 and HNS PROTOCOL 2010.
- HNS Convention - the Container Ships, LNG Tankers, Chemical Tankers and LPG Tankers are required to do reporting to the port authorities of the States that have ratified those conventions.
- The Chemical Tanker needs to be included under the STRAITREP reporting

Table: List of Countries that have ratified the HNS Conventions, 2019
(Source: IMO Status of Conventions as of 5 August 2019)

HNS Convention	No. of Countries	List of Countries
HNS Convention 1996	14	Angola, Cyprus, Ethiopia, Hungary, Liberia, Lithuania, Morocco, Russian Federation, Saint Kitts and Nevis, Samoa, Sierra Leone, Slovenia, Syrian Arab Republic, Tonga
HNS PROT 2010	5	Canada, Denmark, Norway, South Africa, Turkey
OPRC/HNS 2000	40	Albania, Australia, Belgium, Chile, China, Colombia, Congo, Cote d'Ivoire, Denmark, Djibouti, Ecuador, Egypt, Estonia, Finland, France, Germany, Greece, Guyana, Iran, Japan, Liberia, Madagascar, Malaysia, Malta, Mauritius, Netherlands, Norway, Palau, Poland, Portugal, Republic of Korea, Singapore, Slovenia, Spain, Sweden, Syrian Arab Republic, Turkey,

HAZARDOUS & NOXIOUS SUBSTANCES (HNS)

HNS Convention 1996 coverage

Oils, carried in bulk, as defined in MARPOL Annex I

NLS as defined in MARPOL Annex II;

Harmful substances as defined in MARPOL Annex III

Substances classified in Chapter 17 of the IBC Code Chapter 19 of IGC Code;

Substances, materials and articles in packaged form covered by the IMDG Code

Liquid substances carried in bulk with a flashpoint not exceeding 60°C

HAZARDOUS & NOXIOUS SUBSTANCES (HNS)

HNS Convention 1996

- Adopted in 1996.
- Compensation regime for damage caused by the carriage of HNS by sea transportation
- Aims to provide adequate, prompt, and effective compensation for loss or damage to persons, property and the environment arising from the carriage of HNS by sea.
- It also established a compensation Fund (the HNS Fund) as a supplementary mechanism.

HNS Protocol 2010

- Amended from HNS 1996.
- Adequate compensation available for damage from HNS maritime transportation.
- Based on the successful model of the Civil Liability and Fund Conventions which cover pollution damage caused by spills of persistent oil from tankers.

OPRC-HNS Protocol 2000

- Adopted to expand the scope of the OPRC 1990 to pollution incidents by hazardous substances other than oil.
- To provide a global framework for international co-operation establishing systems for preparedness and response in combating incidents or threats of marine pollution involving HNS at the national, regional and global levels;

RECOMMENDATION & CONCLUSION

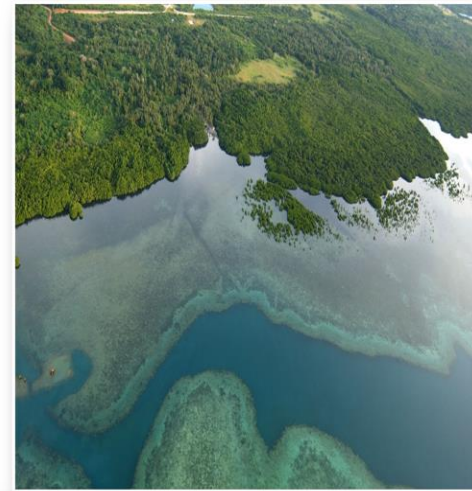
Enhance & review reporting mechanism in the TSS on the HNS, in particular HNS cargo in transit

The LS to review the present risk on the HNS carriage transiting SOMS

To review the LS HNS Preparedness and Response in the SOMS

To consolidate present Joint Oil Spill Response in the SOMS with HNS / ASEAN ROSCP

To consider the compensation regime on the HNS



Thank you

Danke xie

Khawp khun

Jum

Omigod

Mahalo

Isapda

Omigod

Omigod

Gracias

Spacibo

Grigada

Arigato

Terima kasih