

12th Cooperation Forum Programme

***Co-operative Mechanism on Safety of Navigation and
Environmental Protection in the Straits of Malacca
and Singapore***



Update the Designation on Traffic Separation Schemes (TSS) in Sunda & Lombok Straits by DGST – Ministry of Transportation, Republic of Indonesia

Semarang, 30 September 2019



IMO CIRCULAR FOR TSS SUNDA AND LOMBOK STRAITS



E

4 ALBERT EMBANKMENT
LONDON SE1 7SR
Telephone: +44 (0)20 7735 7611 Fax: +44 (0)20 7587 3210

COLREG.2/Circ.74
14 June 2019

NEW TRAFFIC SEPARATION SCHEMES

1 The Maritime Safety Committee, at its 101st session (5 to 14 June 2019), adopted, in accordance with the *Procedure for the adoption and amendment of traffic separation schemes, routing measures other than traffic separation schemes, including designation and substitution of archipelagic sea lanes, and ship reporting systems* (resolution A.858(20)), new traffic separation schemes and associated measures listed in the annex as follows:

- .1 *In the Sunda Strait; and*
- .2 *In the Lombok Strait.*

2 Accordingly, these new traffic separation schemes and associated routing measures should be implemented on 1 July 2020.



E

4 ALBERT EMBANKMENT
LONDON SE1 7SR
Telephone: +44 (0)20 7735 7611 Fax: +44 (0)20 7587 3210

SN.1/Circ.337
14 June 2019

ROUTING MEASURES OTHER THAN TRAFFIC SEPARATION SCHEMES

1 The Maritime Safety Committee, at its 101st session (5 to 14 June 2019), adopted, in accordance with the *Procedure for the adoption and amendment of traffic separation schemes, routing measures other than traffic separation schemes, including designation and substitution of archipelagic sea lanes, and ship reporting systems* (resolution A.858(20)), new and amended routing measures other than traffic separation schemes, set out in the annex, as follows:

- .1 establishment of precautionary areas with recommended directions of traffic flow *In the Sunda Strait* and *In the Lombok Strait*; and
- .2 amendments to *Recommendation on navigation through the English Channel and the Dover Strait*.

2 Accordingly, the new and amended routing measures other than traffic separation schemes listed in:

- .1 sub-paragraph 1.1 above should be implemented on 1 July 2020; and
- .2 sub-paragraph 1.2 above should be implemented on 1 January 2020.



ROADMAP TO THE IMPLEMENTATION NEW TSS



**Indonesia
Proposal
(End of 2018)**

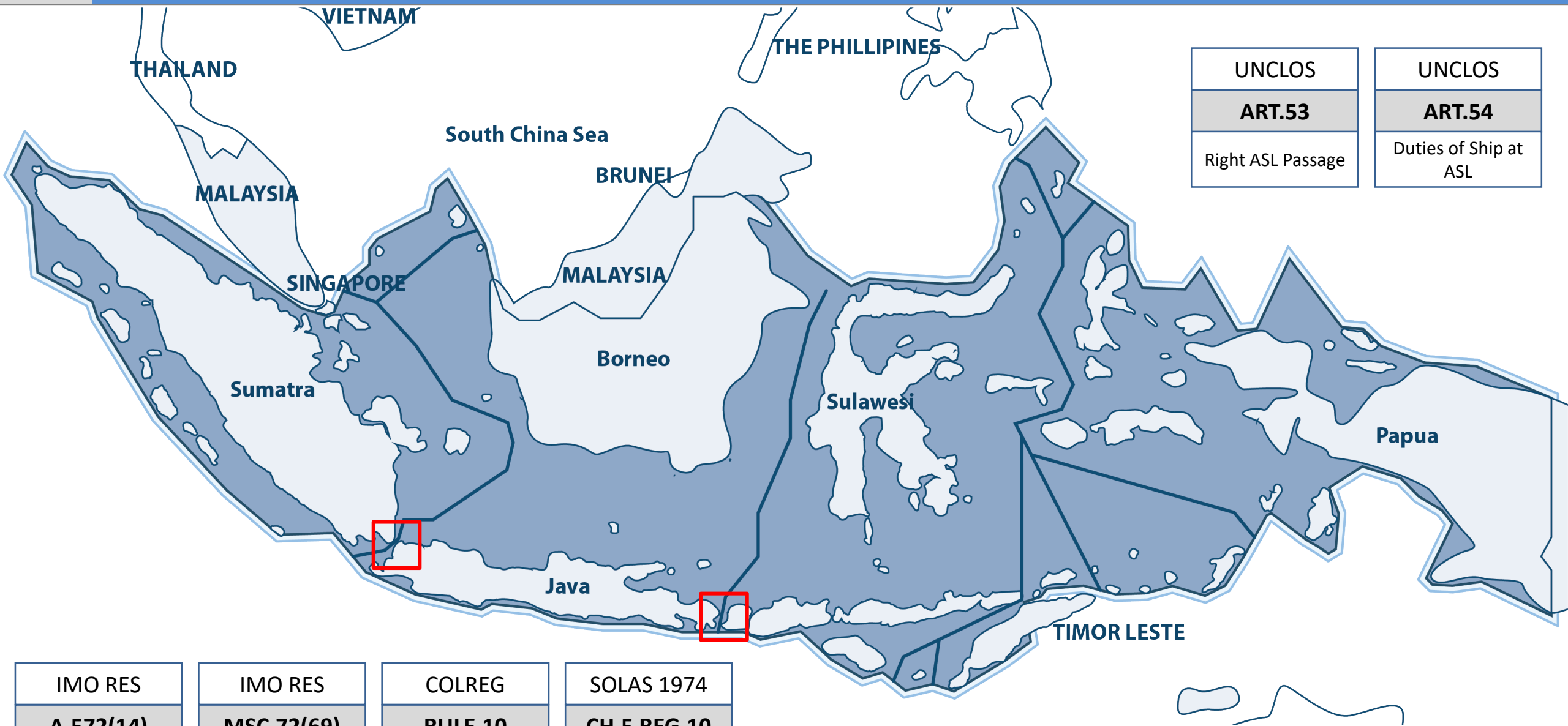
**IMO 6th NCSR
Approval
(Jan 2019)**

**IMO 101ST MSC
(June 2019)**

**ENACTMENT
(July 2020)**



INTERNATIONAL SHIPPING ROUTES IN INDONESIAN WATERS



UNCLOS
ART.53
Right ASL Passage

UNCLOS
ART.54
Duties of Ship at ASL

IMO RES
A.572(14)
General Provision ASL

IMO RES
MSC.72(69)
Adoption ASL

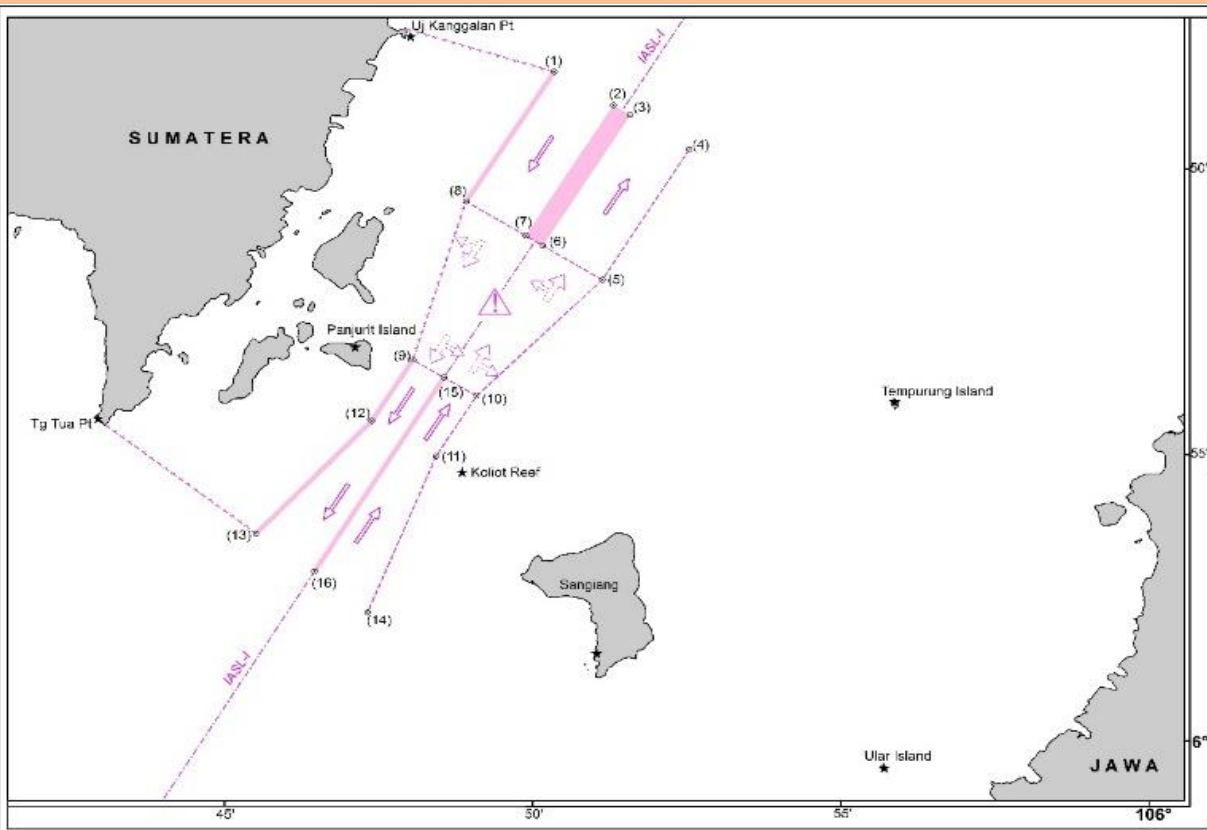
COLREG
RULE.10
TSS

SOLAS 1974
CH.5 REG.10
Ship Routeing



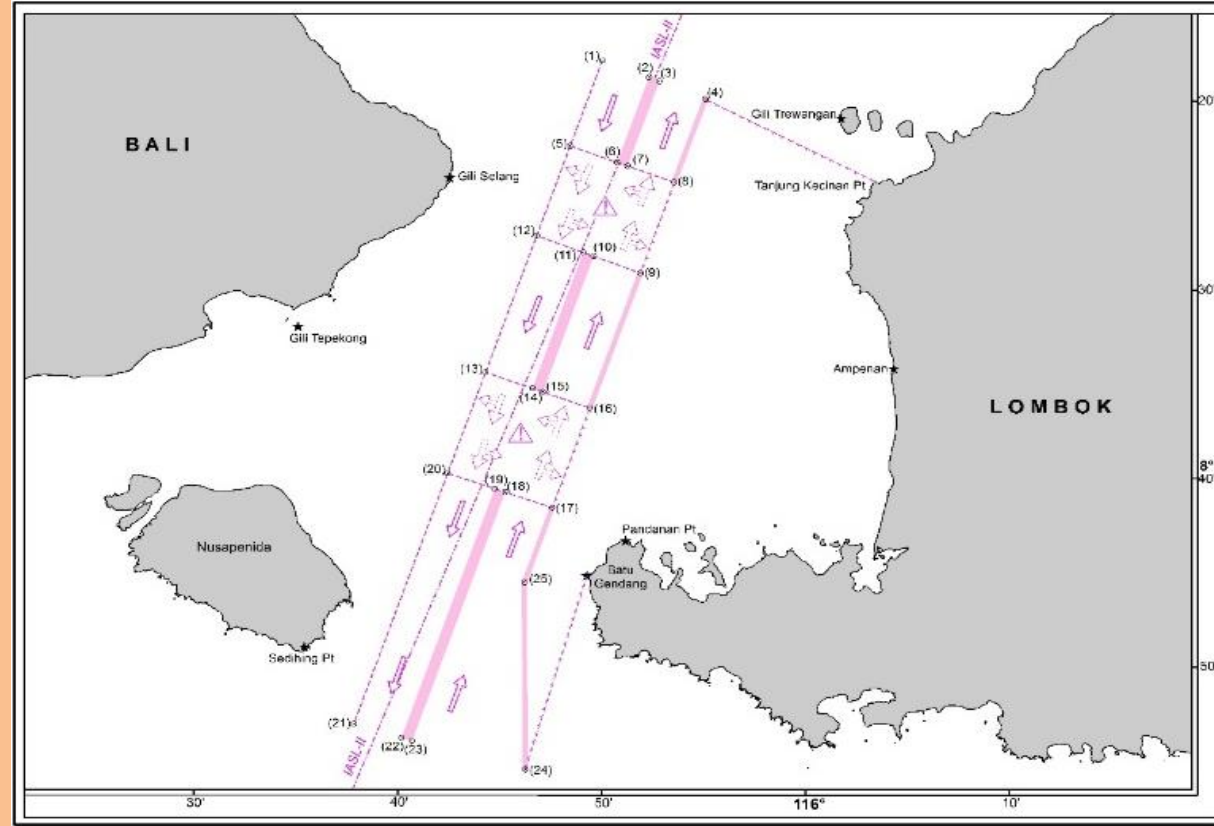
TRAFFIC SEPARATION SCHEMES (TSS)

TSS SUNDA STRAIT



Total length of TSS : 9.38 Nm
Width of the North side : 2.67 Nm;
Width of the South side : 2.27 Nm;
Width of *Separation Zone* : 0.3 Nm

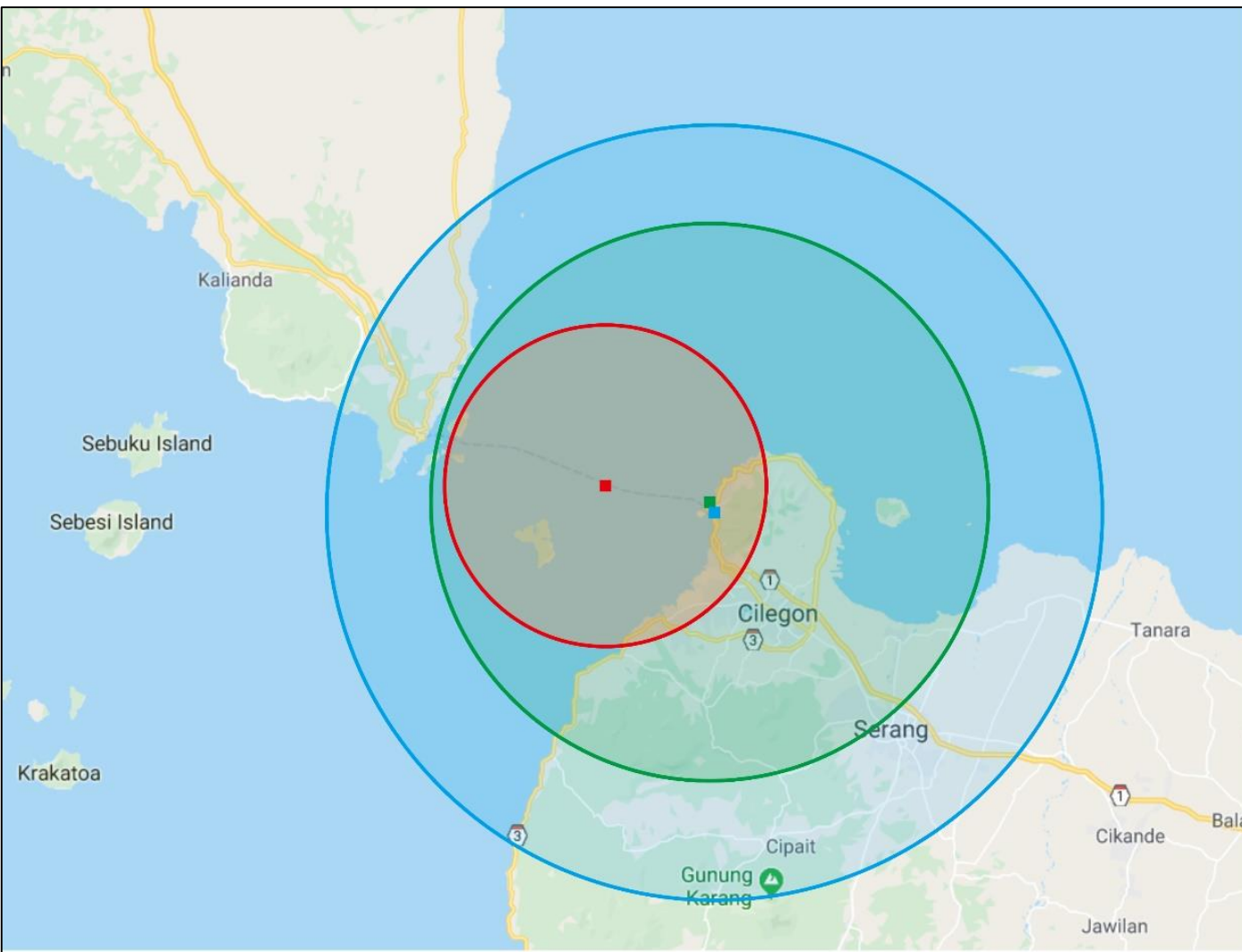
TSS LOMBOK STRAIT



Total length of TSS : 37,79 Nm
Width of the North side : 5,4 Nm;
Width of the South side : 8,74 Nm;
Width of *Separation Zone* : 0.5 Nm



STRENGTHENING VTS IN SUNDA STRAIT



COVERAGE OF MERAK VTS

- AIS (2) & VHF COMM (3) : ± 30 NM
- RADAR (1) : ± 20 NM
- MARINE SURVEILLANCE CAMERA (2) :
 - Medium : ± 3 NM
 - Long Range : ± 7 NM

RADIO VHF COMMUNICATION:

- ☐ CH. 16 => GENERAL CALL
- ☐ CH. 20 => TSS SUNDA STRAIT



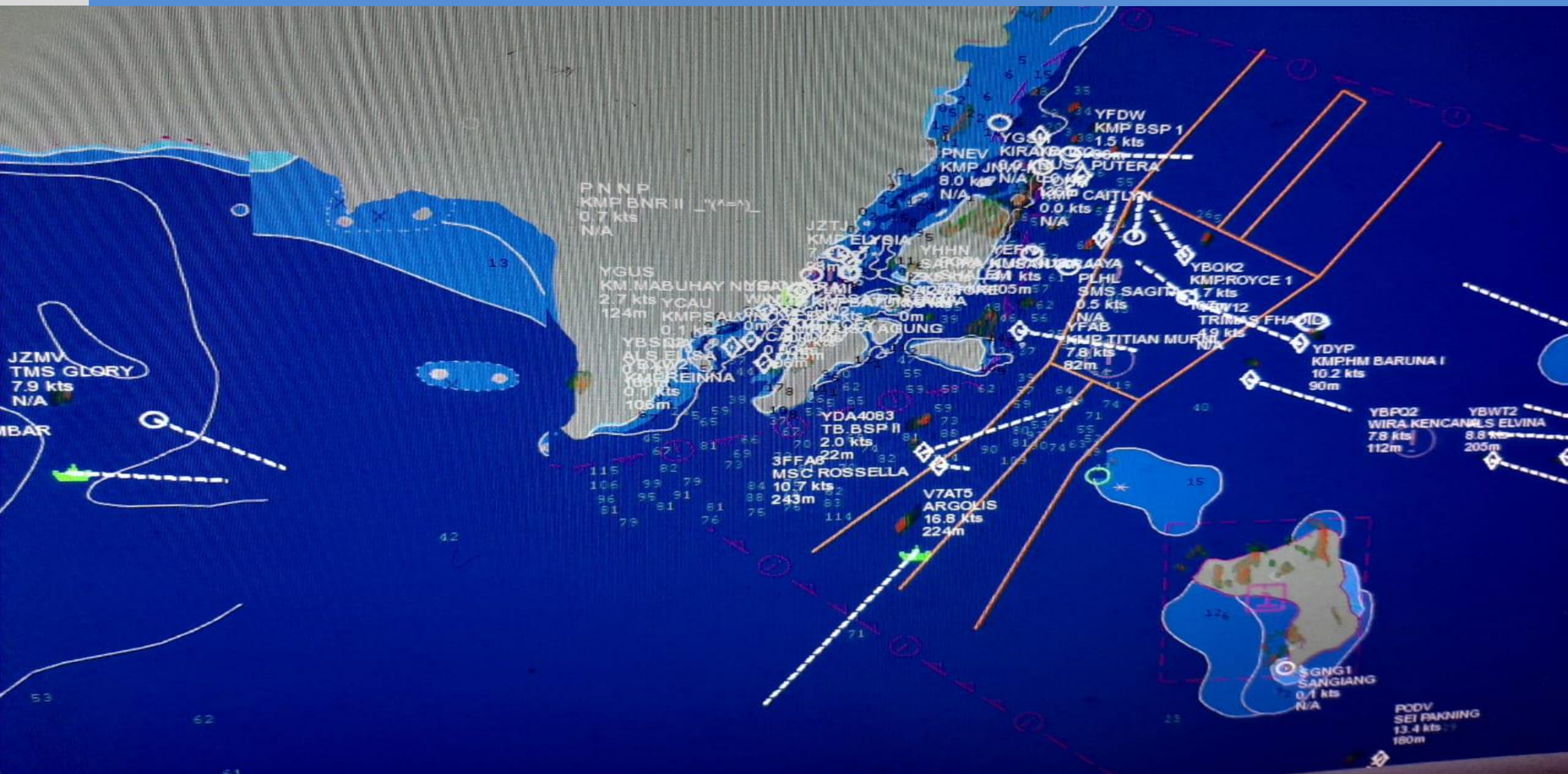
(AFTER UPGRADING EQUIPMENT – SEPT 2019)

VTS MERAKE





CHARACTERISTIC TRAFFIC VESSEL IN THE TSS OF SUNDA STRAIT

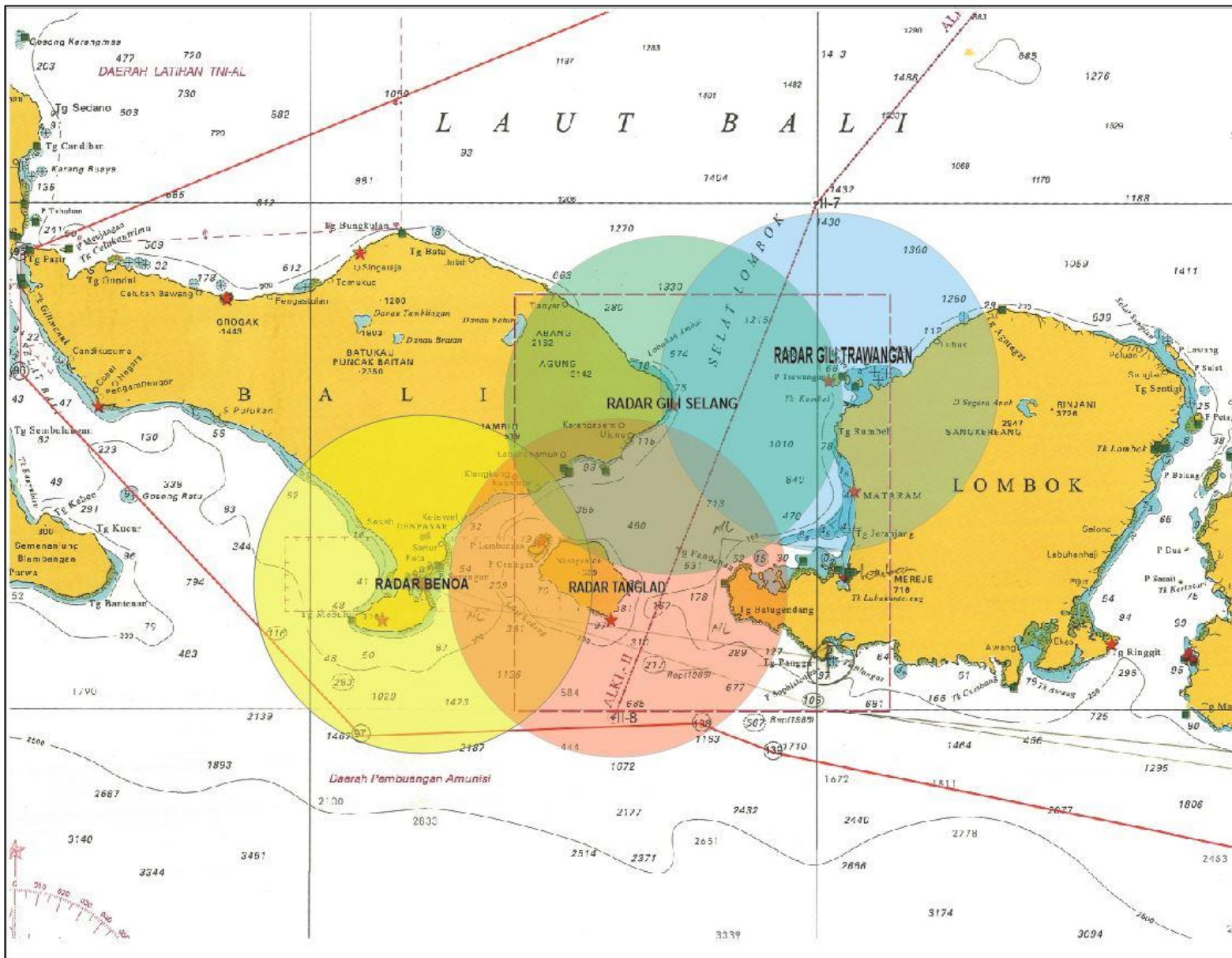




STRENGTHENING VTS IN LOMBOK STRAIT

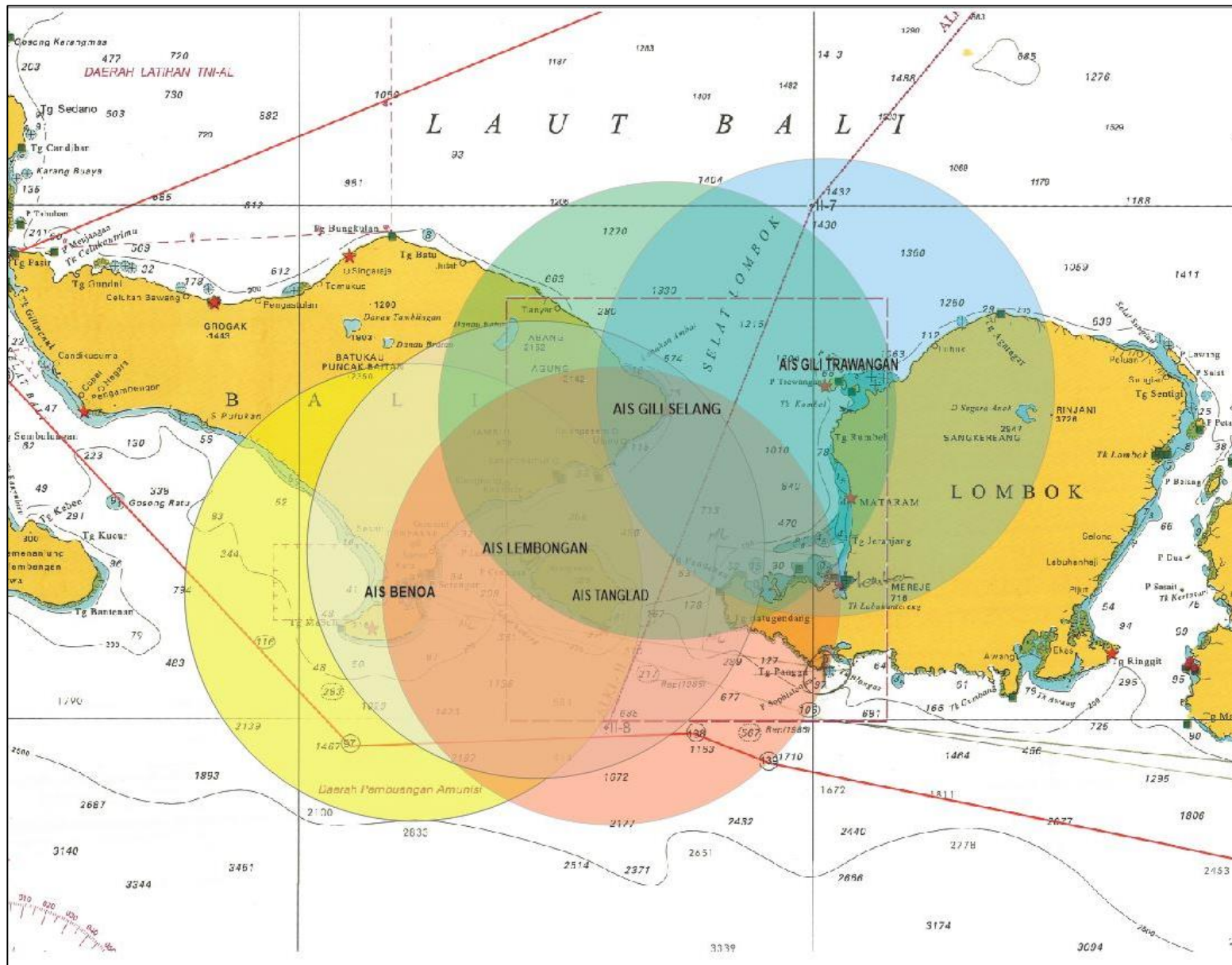
RADAR COVERAGE AREA OF BENOA VTS

-  RADAR BENOA
-  RADAR TENGLAD
-  RADAR GILI SELANG
-  RADAR GILI TERAWANGAN





STRENGTHENING VTS IN LOMBOK STRAIT



AIS COVERAGE AREA OF BENOA VTS

-  AIS BENOA
-  AIS TENGLAD
-  AIS GILI SELANG
-  AIS GILI TERAWANGAN
-  AIS LEMBONGAN

RADIO VHF COMMUNICATION:

-  CH. 16 => GENERAL CALL
-  CH. 68 => TSS LOMBOK STRAIT
-  CH. 67 => BENOA PORT

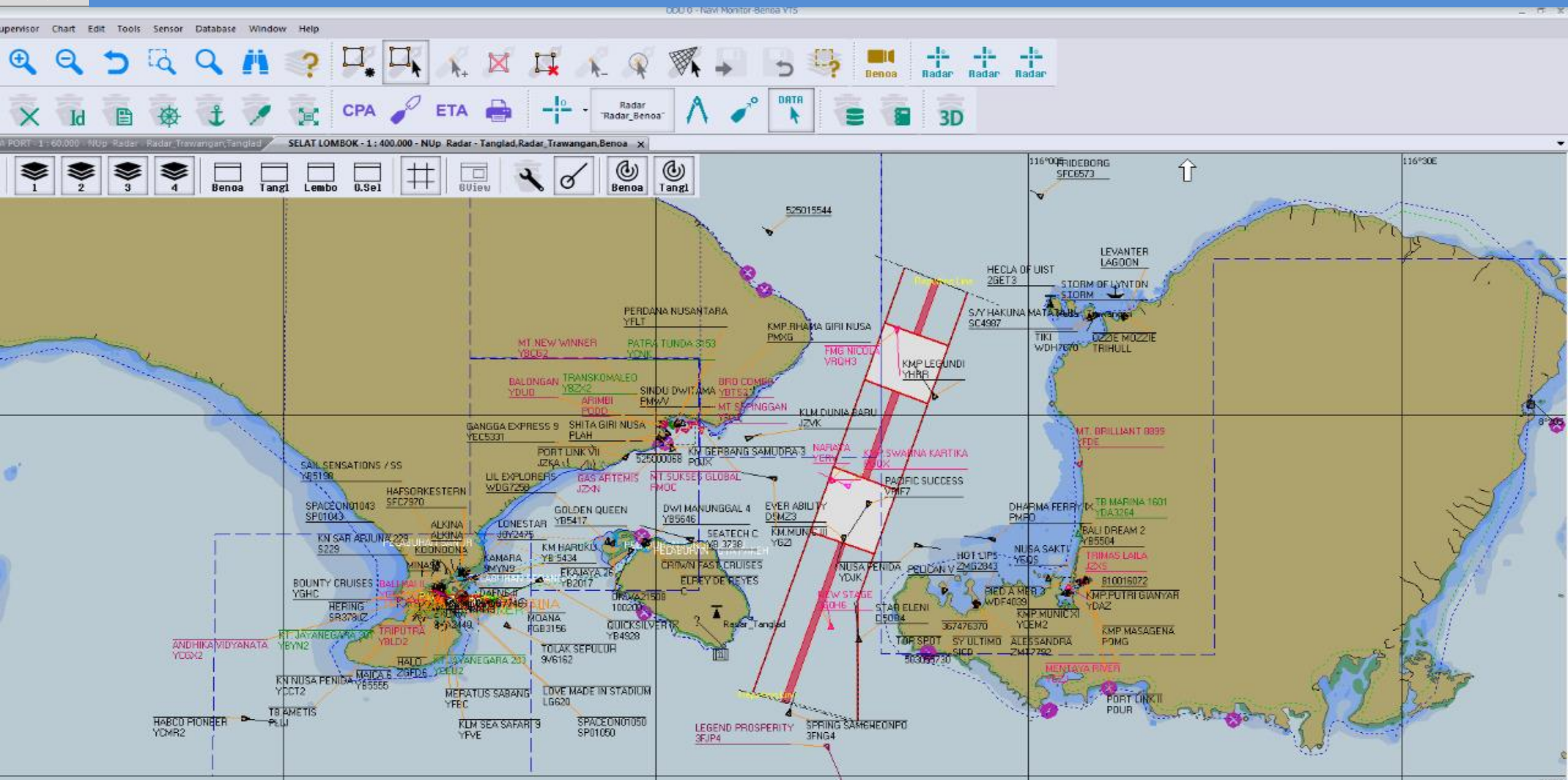


VTS BENOA OPERATION ROOM



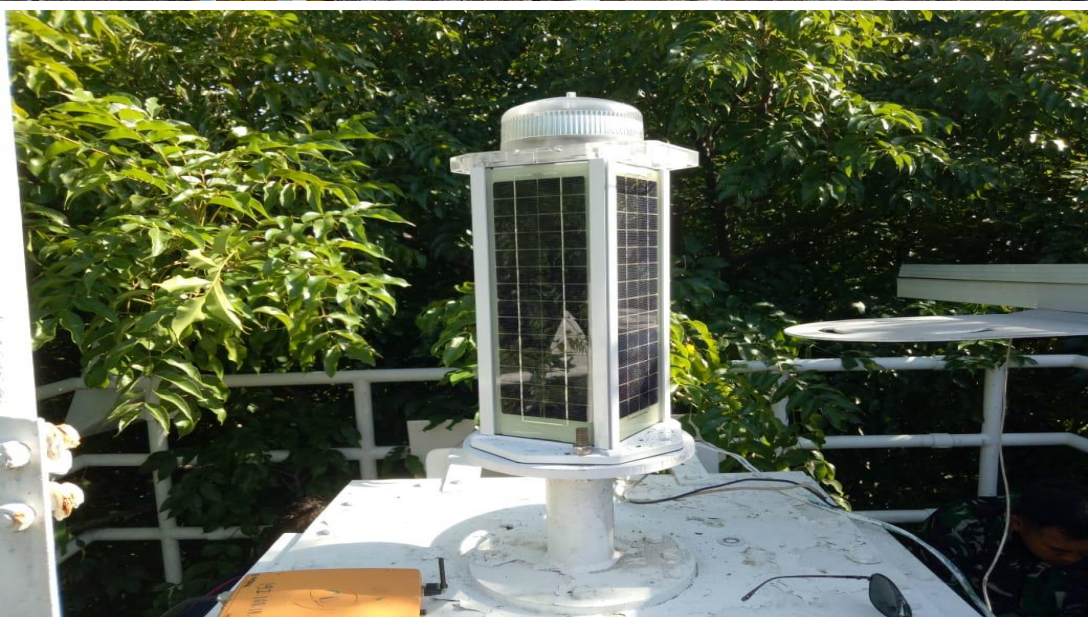


CHARACTERISTIC TRAFFIC VESSEL IN THE TSS OF LOMBOK STRAIT





SURVEY ON NAVIGATIONAL AIDS

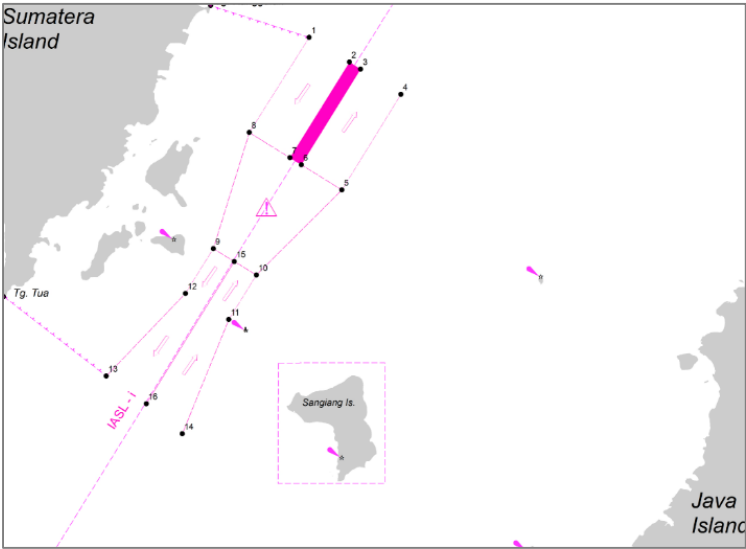




SURVEY ON NAVIGATIONAL AIDS

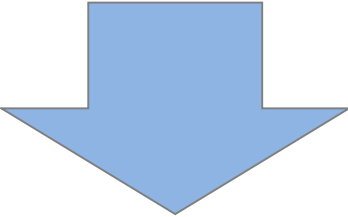
SUNDA STRAIT

NO	AtoN	LATITUDE	LONGITUDE	RANGE
1	Tanjung Tua Light Beacon	05° 54'.37 S	105° 43'.00 E	12 NM
2	Sangiang Light Beacon	05° 58'.33 S	105° 51'.13 E	16 NM
3	Pulau Ular Light Beacon	06° 00'.55 S	105° 55'.57 E	8 NM
4	Koliot Reef Light Beacon	05° 55'.29 S	105° 48'.84 E	12 NM
5	Pulau Panjurit Light Beacon	05° 53'.12 S	105° 47'.12 E	18 NM
6	Tempurung Lighthouse	05° 54'.01 S	105° 55'.88 E	13 NM
7	Kanggalan Reef Light Beacon	05° 47'.63 S	105° 48'.28 E	12 NM



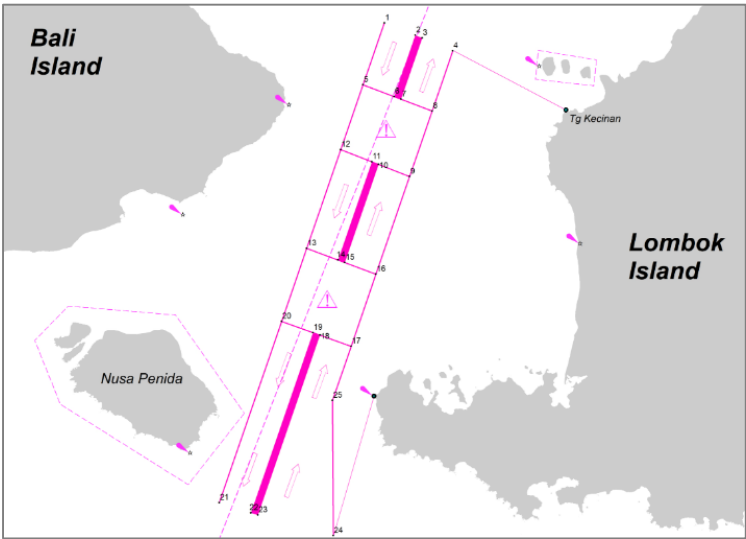
REAFFIRMATION
OF POSITION

ENSURING
AVAILABILITY &
RELIABILITY



LOMBOK STRAIT

NO	AtoN	LATITUDE	LONGITUDE	RANGE
1	Gili Selang Lighthouse	08° 23'.83 S	115° 43'.00 E	19 NM
2	Gili Tepekong Light Beacon	08° 31'.88 S	115° 35'.17 E	18 NM
3	Tg. Sedihih Lighthouse	08° 49'.33 S	115° 35'.70 E	25 NM
4	Batu Gendang Light Beacon	08° 45'.17 S	115° 49'.27 E	12 NM
5	Tg. Pandanan Lighthouse	08° 43'.29 S	115° 51'.18 E	24 NM
6	Ampenan Lighthouse	08° 34'.00 S	116° 04'.50 E	16 NM
7	Gili Trewangan Lighthouse	08° 21'.00 S	116° 01'.47 E	19 NM

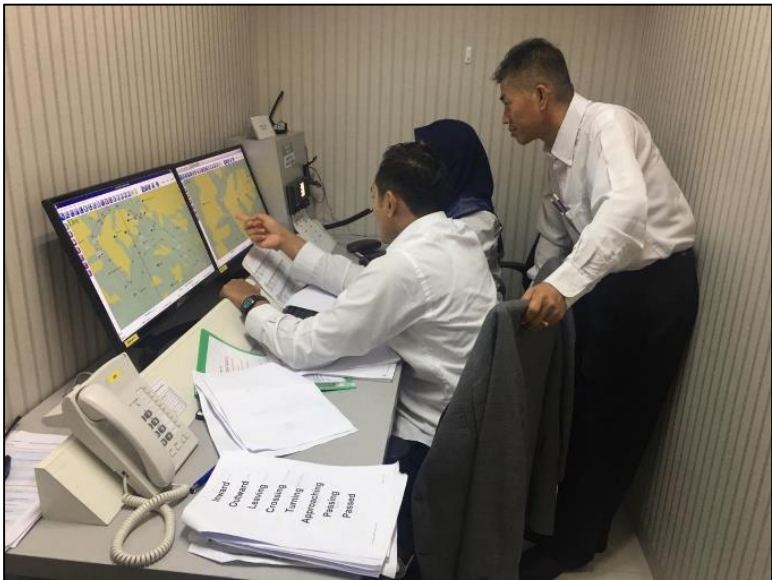


NEW
(UPDATED)
NAUTICAL CHART

NEW
(UPDATED)
ENC



TRAINING OF VTS OPERATORS



Nr.	ACTIVITIES	2019												2020					
		3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6		
1	HUMAN RESOURCES DEVELOPMENT																		
	a. TRAINING FOR RADIO OPERATORS (ORU, SRE-I, SRE II)																		
	b. TRAINING ON VTS IALA V/103-1																		
	c. TRAINING VTS IALA V/103-2																		
	f. TRAINING FOR TECHNICIAN																		

CAPACITY BUILDING PROGRAM

- VTS IALA V/103-1 for Operators
- VTS IALA V/103-2 for Supervisors
- Training for VTS Technician
- Training for Radio Operators

USD. 700,000



1

USE OF AIS-B ON NCVS

**MOT
DECREE**

2

SOCIAL AWARENESS & SAFETY CAMPAIGN



3

NCVS EXAMINATION & CERTIFICATION

40.096

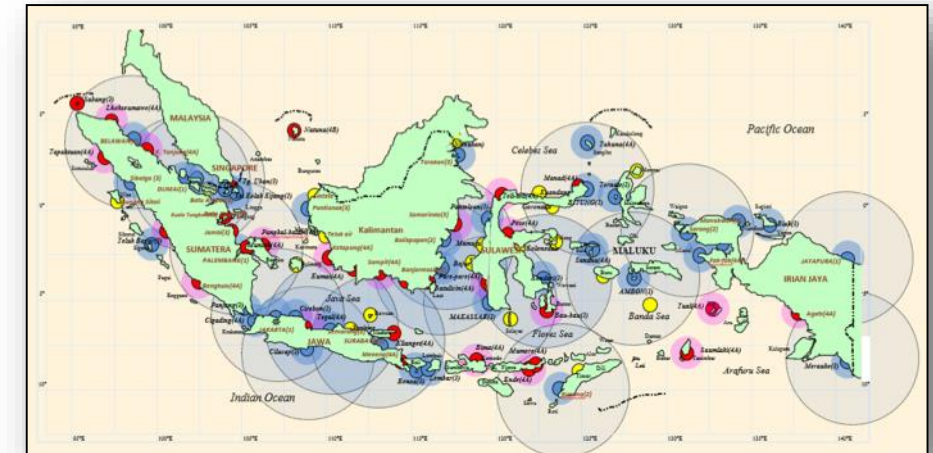
4

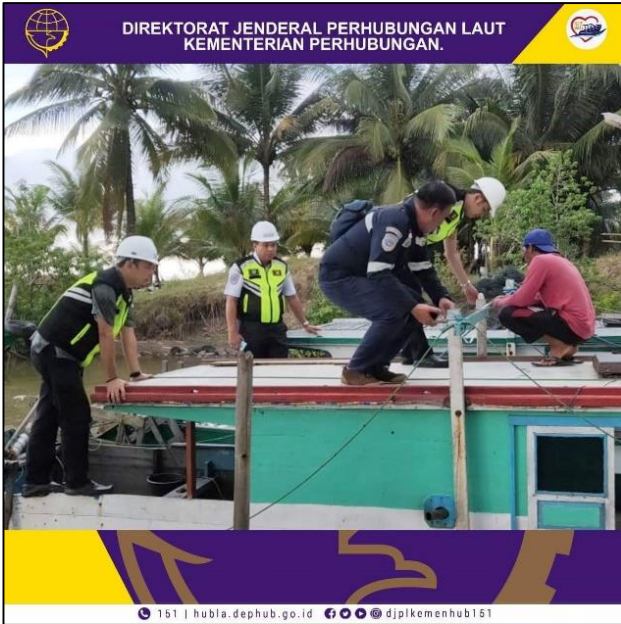
NCV SEAFARERS' BASIC SAFETY TRAINING

9.900



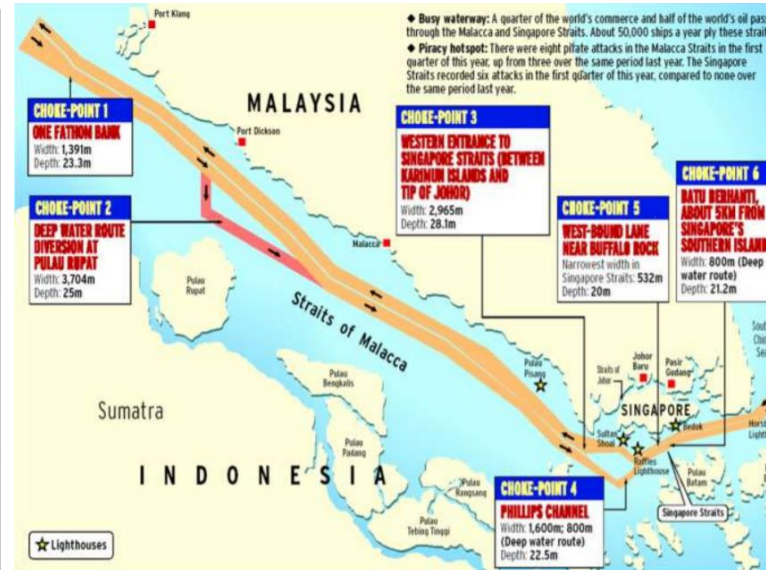
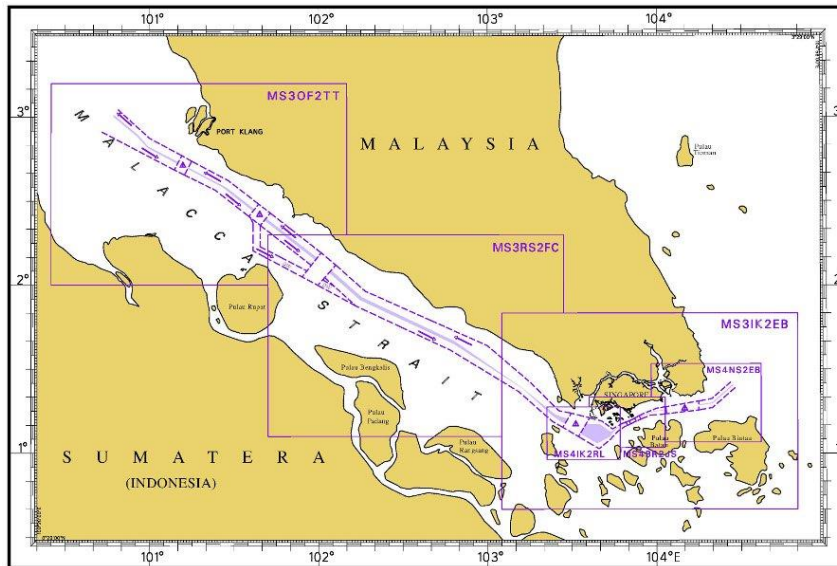
- Indonesia has issued the Ministry of Transportation Regulation Nr. 7 Year 2019 Concerning Installation, Activation of AIS for Vessels Navigating Through the Indonesian Waters.
- Include the obligation for Non Convention Vessels to install and activate AIS Class B.
- Scope of the Regulation :
 - all SOLAS vessels to use and operate AIS Class A;
 - Non Convention Passenger ship and Cargo Ship above 35 GT, all of the vessels operating transboundary, and fishing vessels above 60 GT to use and operate AIS Class B.
- DGST will strengthen the coverage of AIS to monitor the implementation of the regulation.







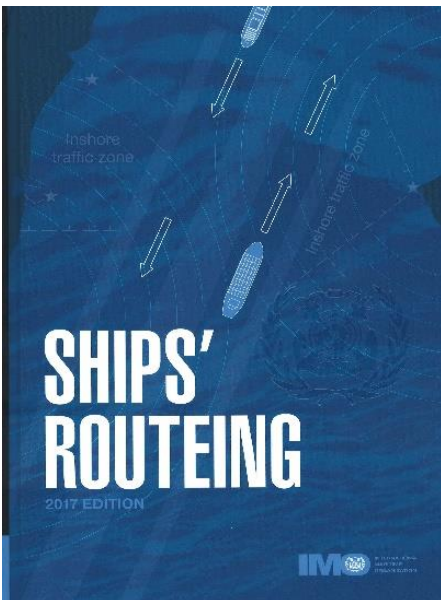
GUIDELINE FOR VESSELS NAVIGATION THE TSS OF SUNDA & LOMBOK STRAITS



CONTENT

- Introduction
- Passage Planning
- General navigation guidelines
- Precautionary Area
- The movement of inward bound large vessels
- Fog guidelines

The information contained in this guidance is intended to inform all vessels concerning the prevailing regulation and best practices to navigate the TSS of Sunda Strait & Lombok Strait, to ensure the safe passage of the ships.





SUNDA & LOMBOK STRAITS TSS & ARM_s | ACTION PLAN

NR	ACTIONS	2019												2020						REMARKS
		01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	
1	NCSR Approval																			
2	MSC Adoption																			
3	Workshops (Int & Nat)																			
4	Cont. Training of Coastal Seafarers																			
5	Cont. Coastal Shipping Certification																			
6	VTSO & VTSS Training																			
7	VTS Reinforcement																			
8	ENC Update and Publication																			
9	Nav Guideline TSS Sunda & Lombok																			
10	Full Implementation TSS & ARM _s																			
11	Enactment & Implementation AIS-B																			

*Thank
You*