

CF 10/5/1/3

*PUSAT HIDROGRAFI DAN OSEANOGRAFI  
TNI ANGKATAN LAUT*



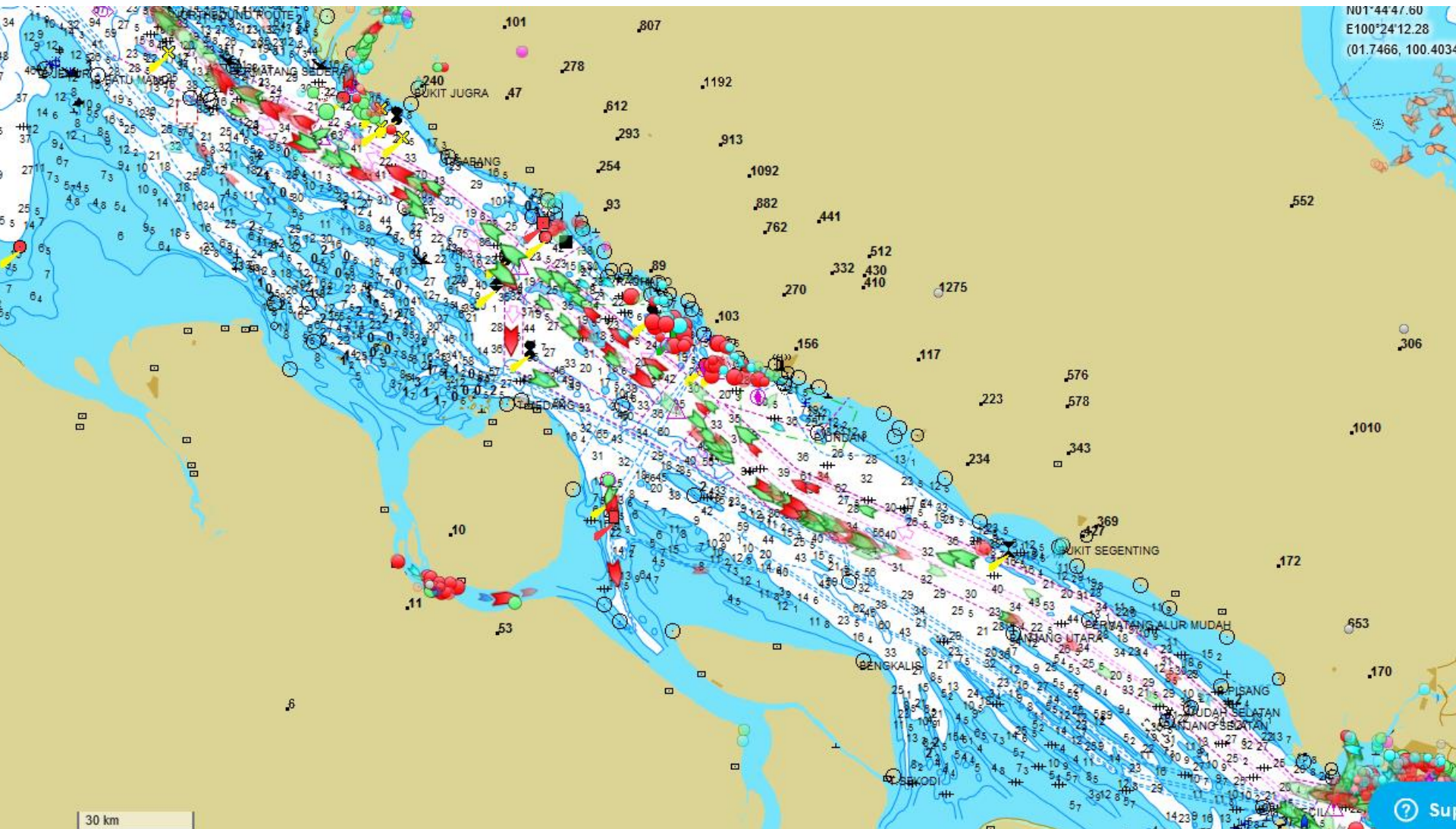
# ENHANCING THE DATA QUALITY ON MSS ENC FOR SUPPORTING VOLUNTARY PILOTAGE IN MALLACA AND SINGAPORE STRAITS

**Indonesia Hydrographic and Oceanographic Centre  
(Pushidrosal)**

**Kinabalu, October 2017**



## DENSITY TRAFFIC IN MALLACA STRAIT





**THE PILOT INFORMATION BOOKLET IS A NAVIGATIONAL NOTEBOOK RECORDING SUCH INFORMATION AS COURSES, DETAILS OF LIGHTS, HAZARDS, ETC. AND INCORPORATING SECTIONS OF CHARTS.**

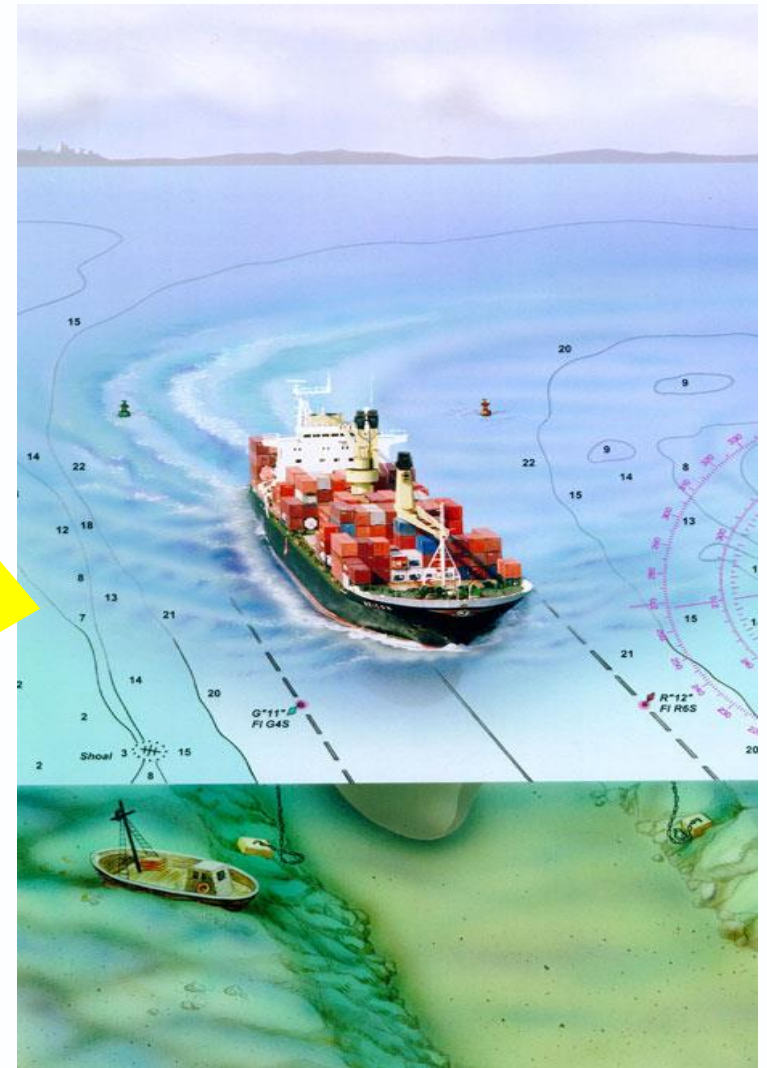


## INDONESIA HYDROGRAPHY DATA CENTRE

### Visualisasi 3D Data Bathymetry Pushidrosal

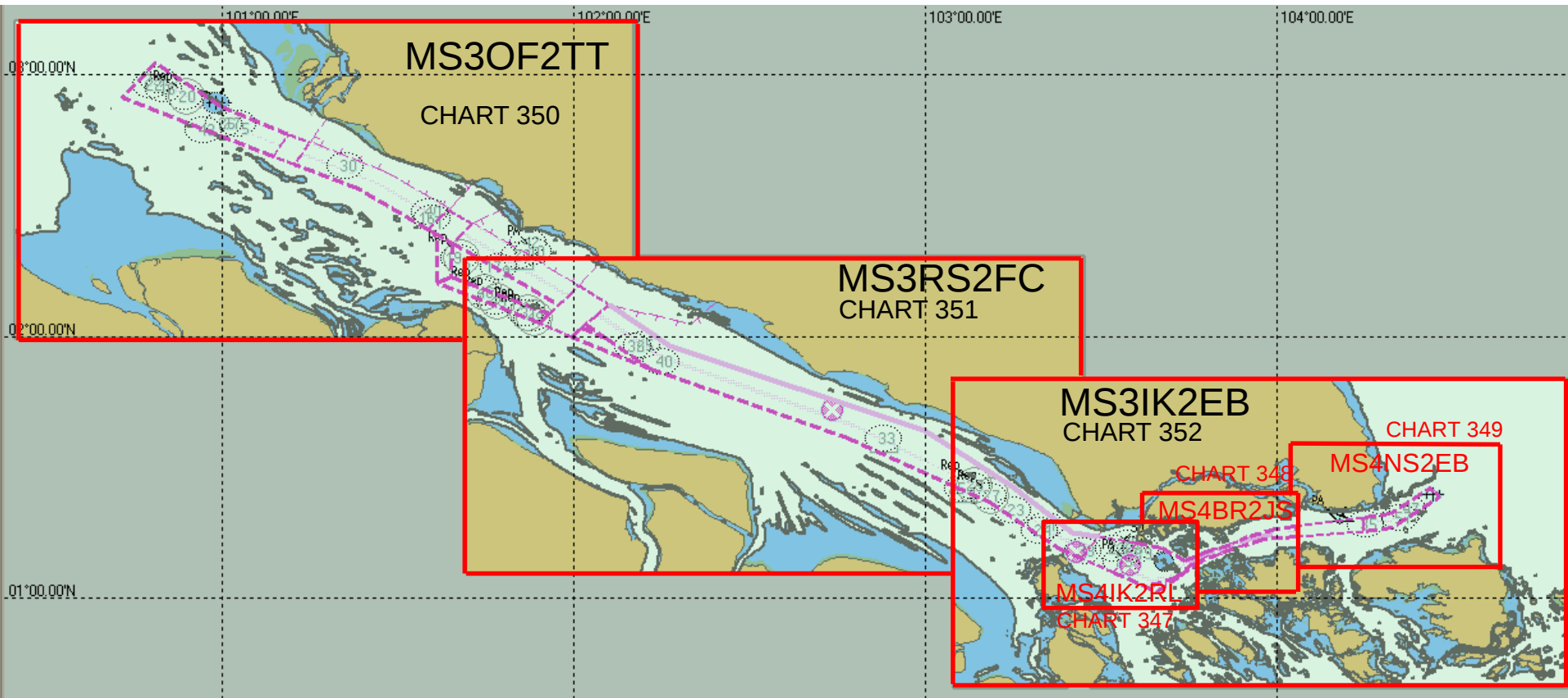


PUSAT INFORMASI DATA HIDROGRAFI (HDC)  
PUSAT HIDROGRAFI DAN OSEANOGRAFI TNI AL





# MSS ENC COVERAGE





## ENC

BAND 3 :

1. MS3OF2TT
2. MS3RS2FC
3. MS3IK2EB

BAND 4 :

4. MS4IK2RL
5. MS4BR2JS
6. MS4NS2EB

## INDONESIAN CHART

SCALE 200.000 :

1. CHART NO 350
2. CHART NO 351
3. CHART NO 352

SCALE 50.000 :

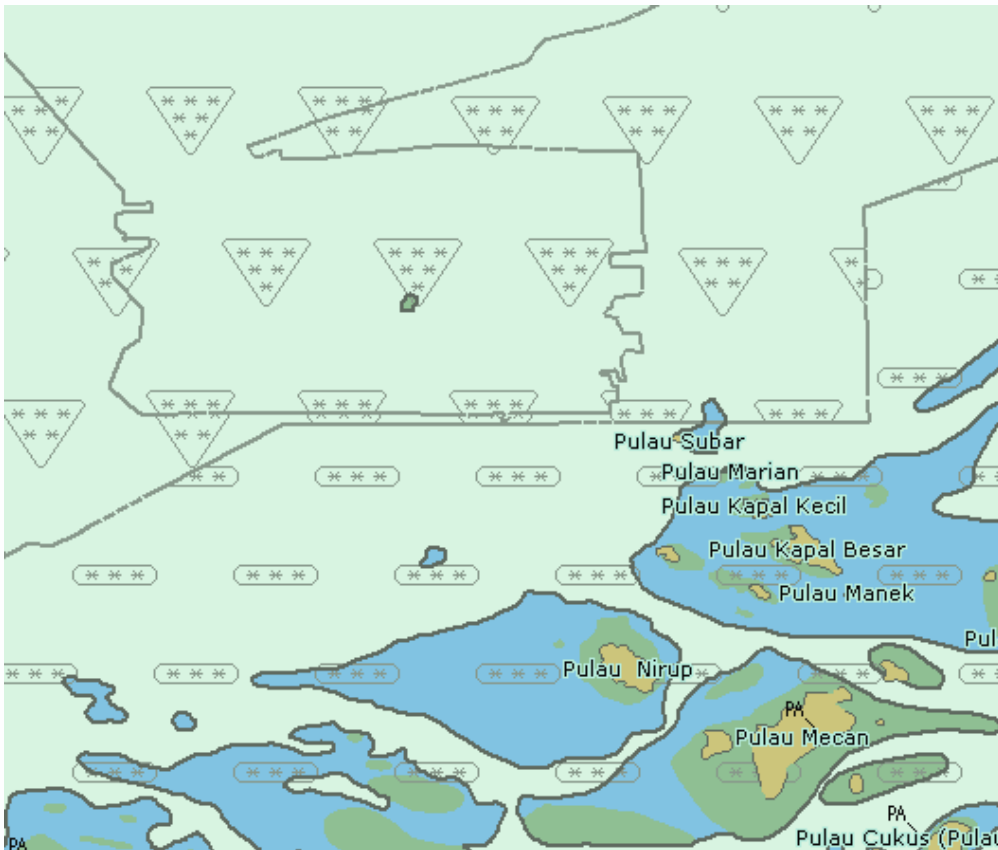
4. CHART NO 347
5. CHART NO 348

SCALE 75.000 :

6. CHART NO 349



## Category of Zone of Confidence (CATZOC)



- In ENC's, reliability of survey data is categorized by Zones of Confidence Category (CATZOC).



# QUALITY OF DATA ON MS30F2TT

## CATZOC UN-ASSESSED SHOULD BE CATZOC “C”

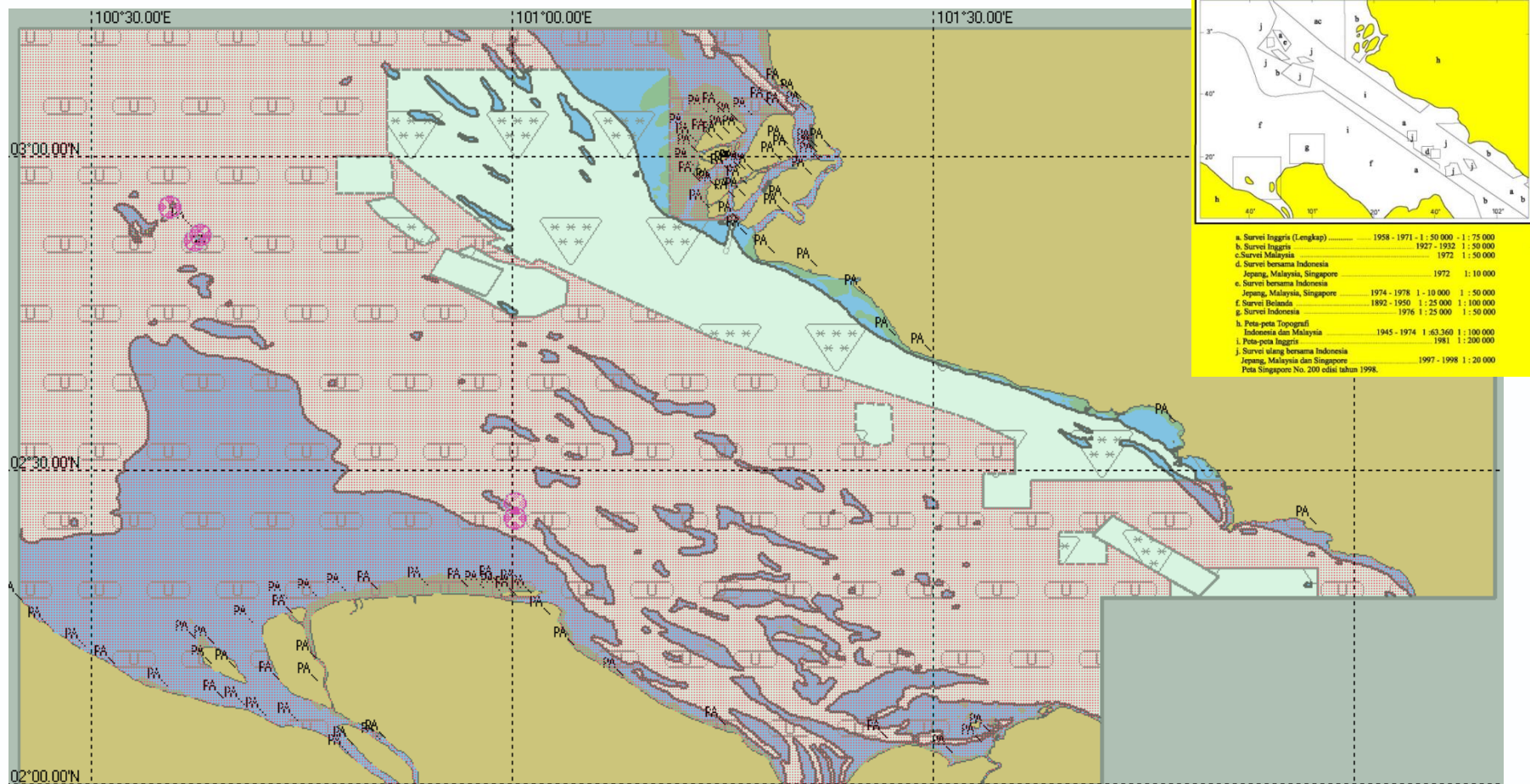


CHART 350



# QUALITY OF DATA ON MS3RS2FC CATZOC UN-ASSESSED SHOULD BE **CATZOC “C”**

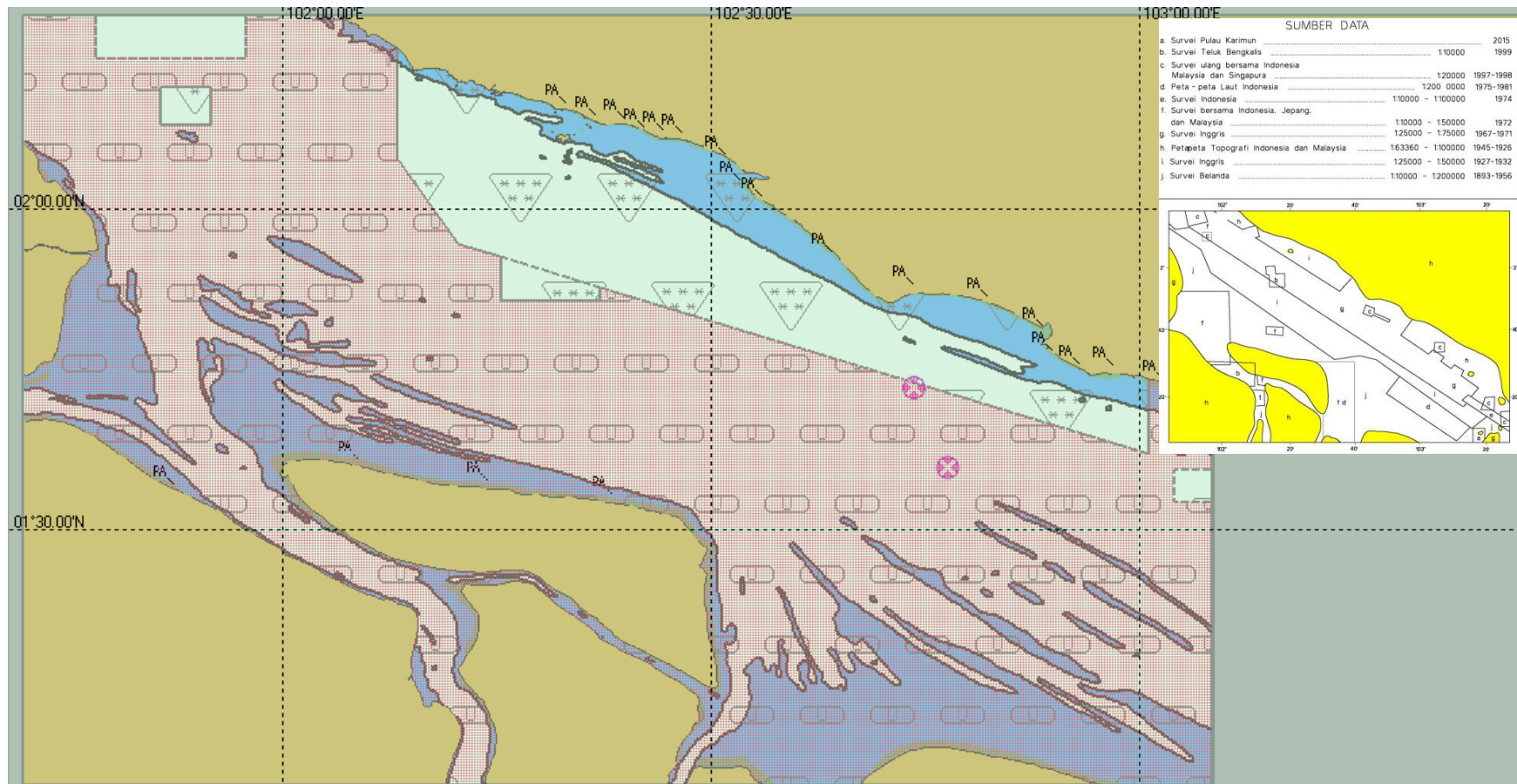


CHART 351



# QUALITY OF DATA ON MS3IK2EB

CATZOC UN-ASSESSED SHOULD BE **CATZOC “C”**

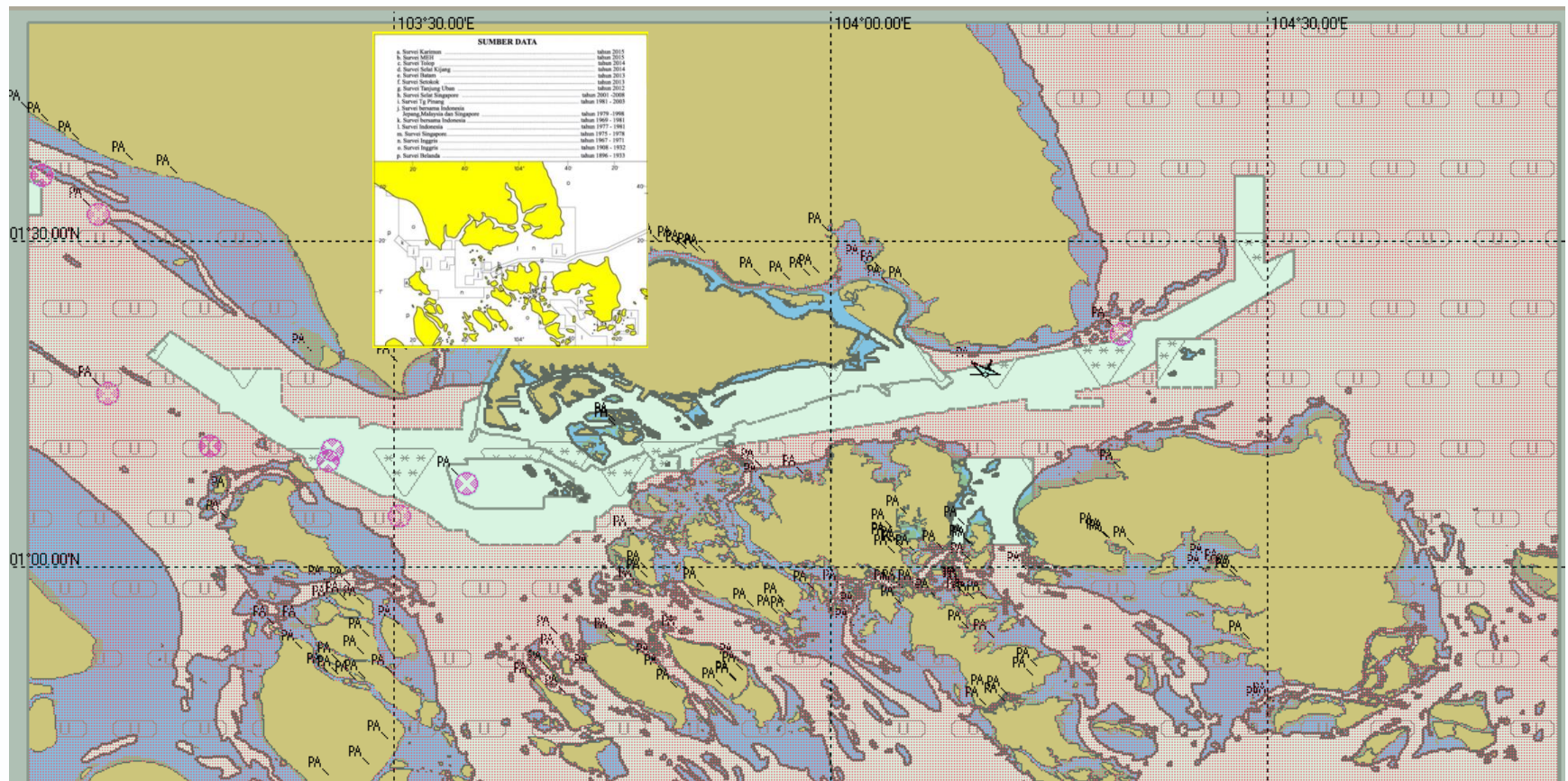


CHART 352



# QUALITY OF DATA ON MS4IK2RL CATZOC UN-ASSESSED SHOULD BE **CATZOC “A2”**

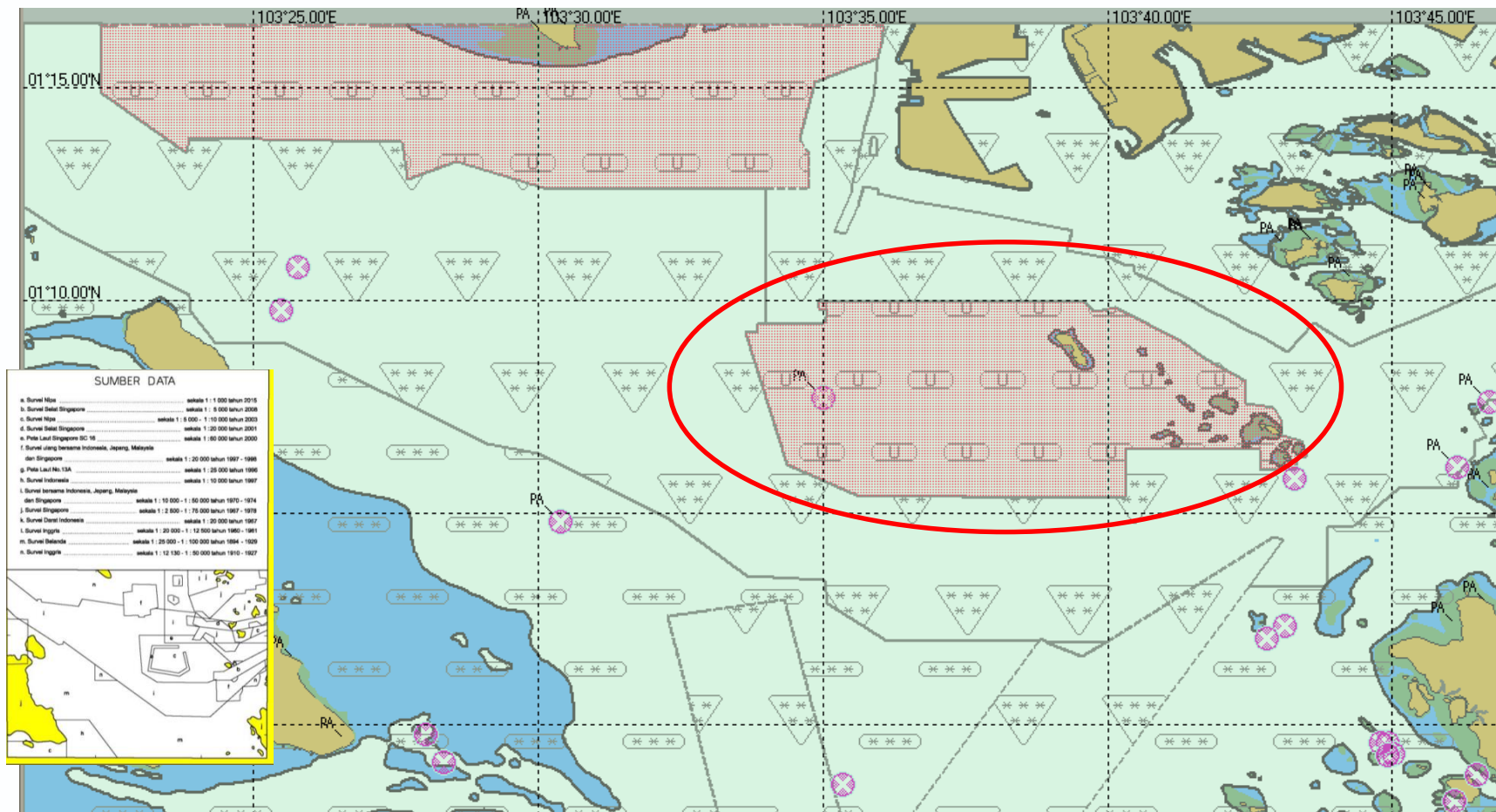
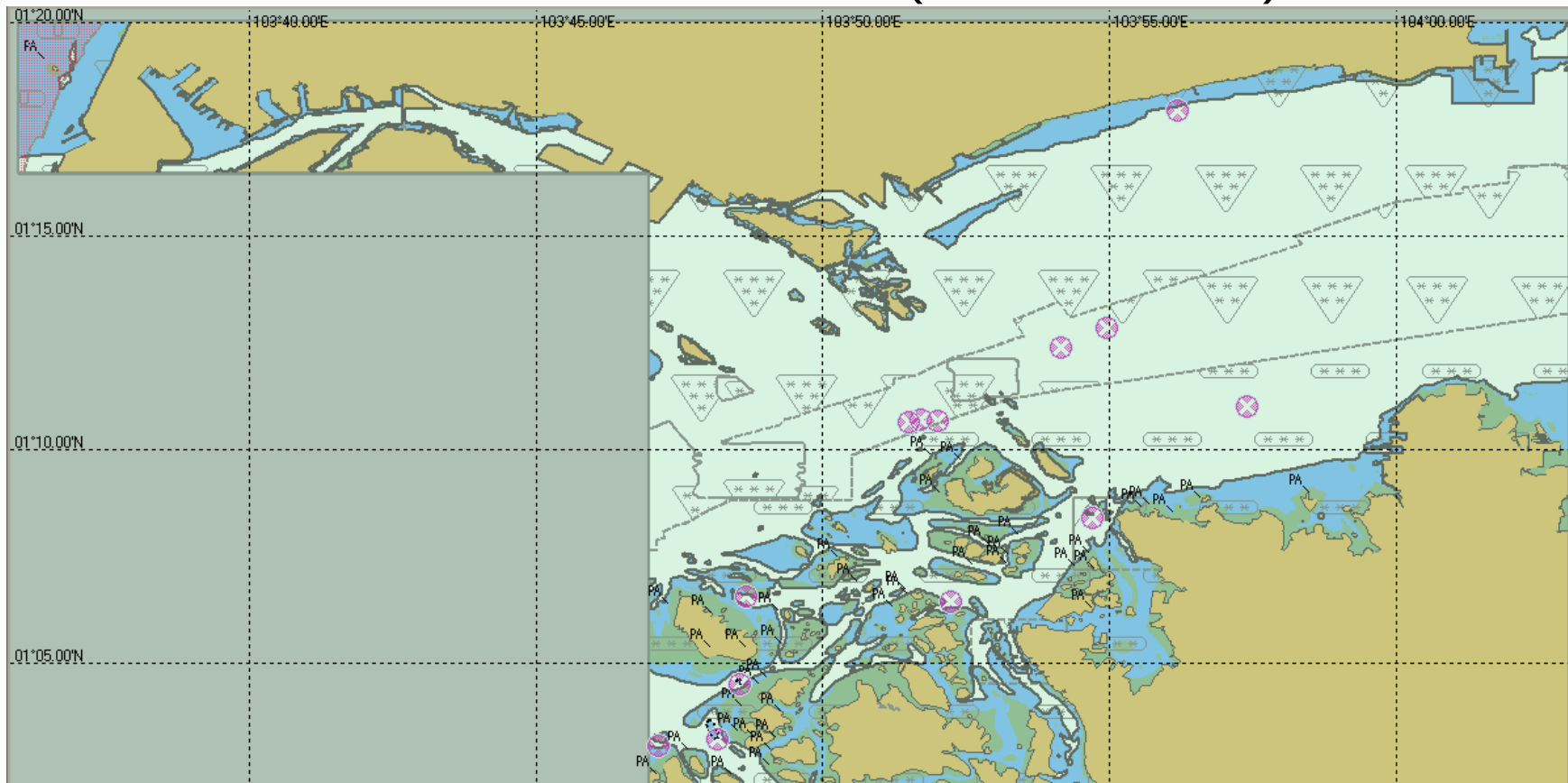


CHART 347



# QUALITY OF DATA ON MS4BR2JS

CATZOC = UN-ASSESSED (No Comment)





# QUALITY OF DATA ON MS4NS2EB

CATZOC = UN-ASSESSED (No Comment)

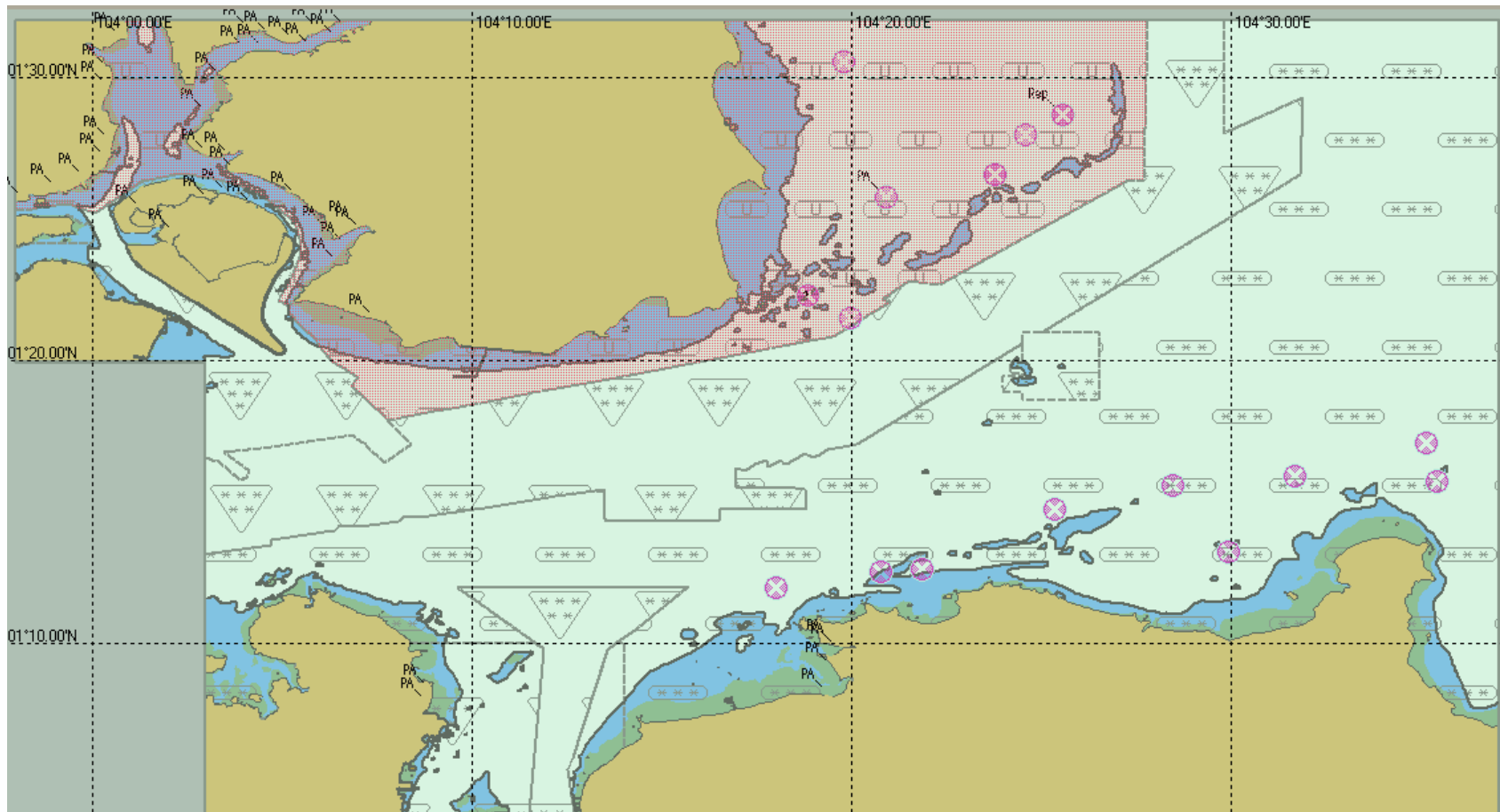
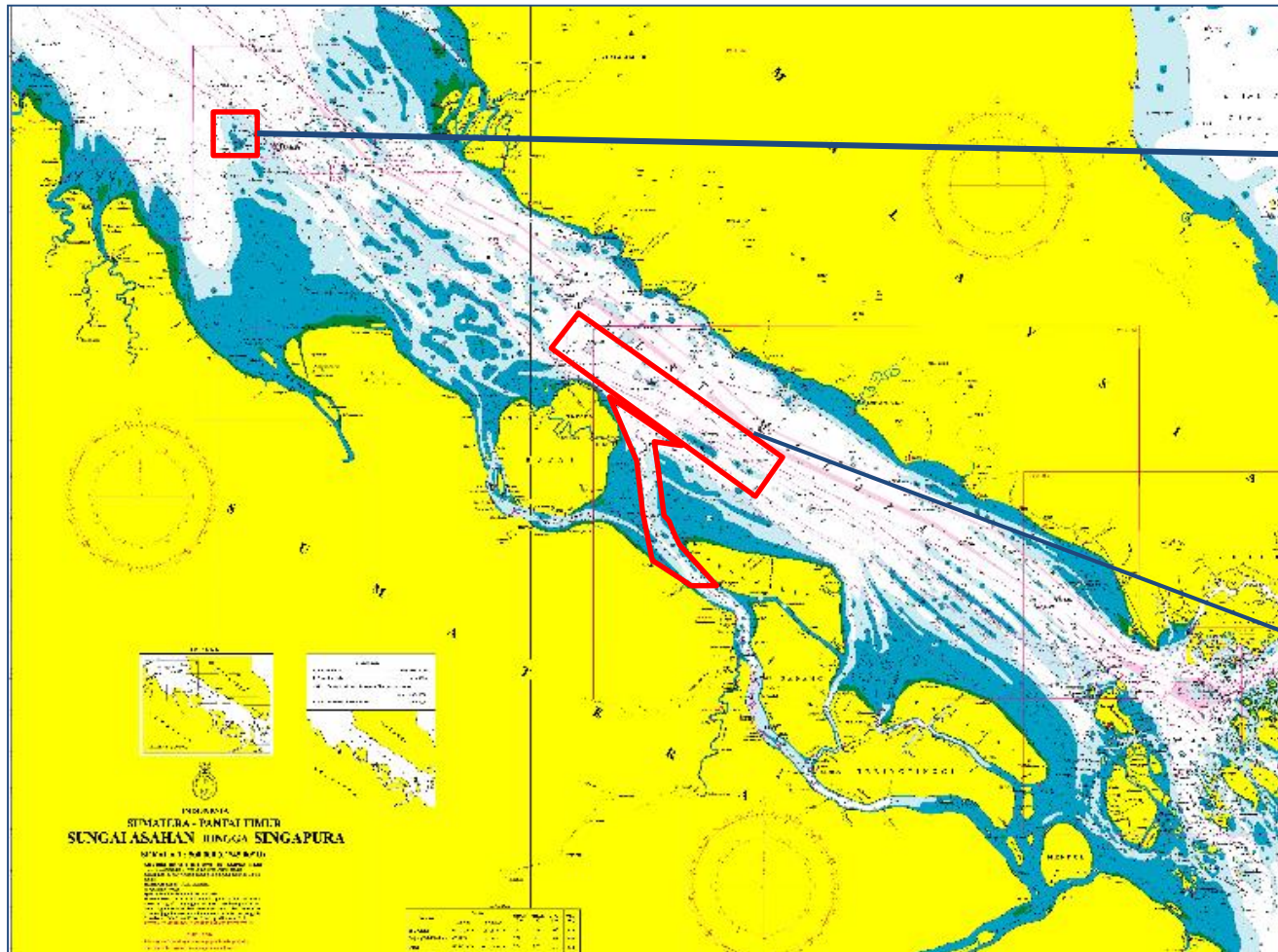


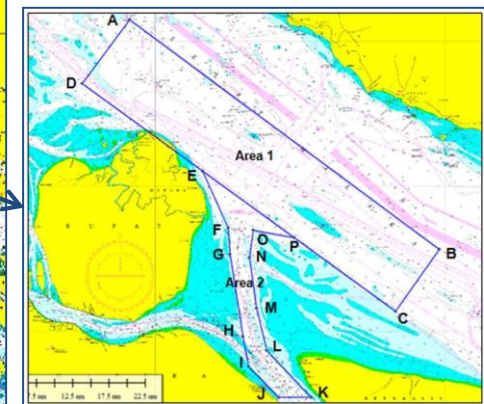
CHART 349



## INDONESIAN SURVEY AREA AT MSS 2017



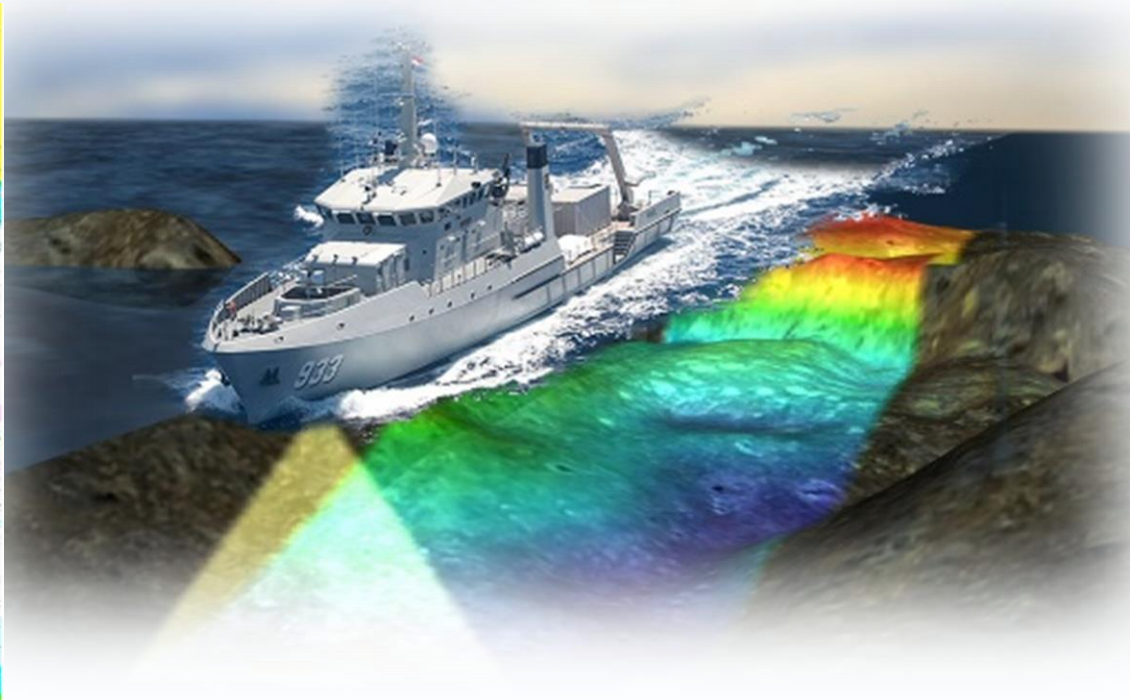
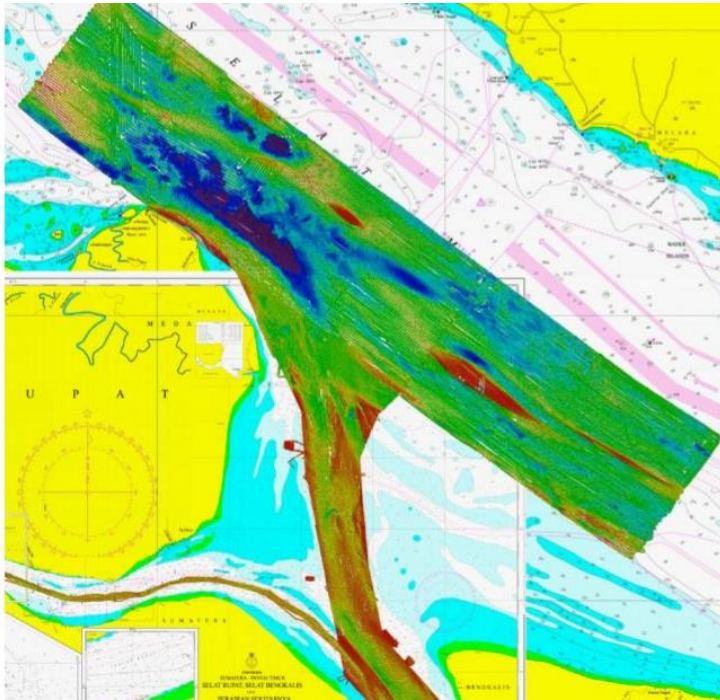
Jemur Island



Malacca straits

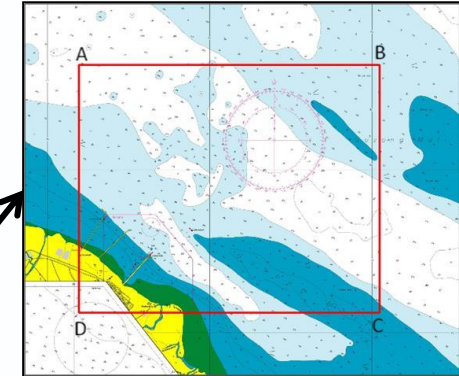
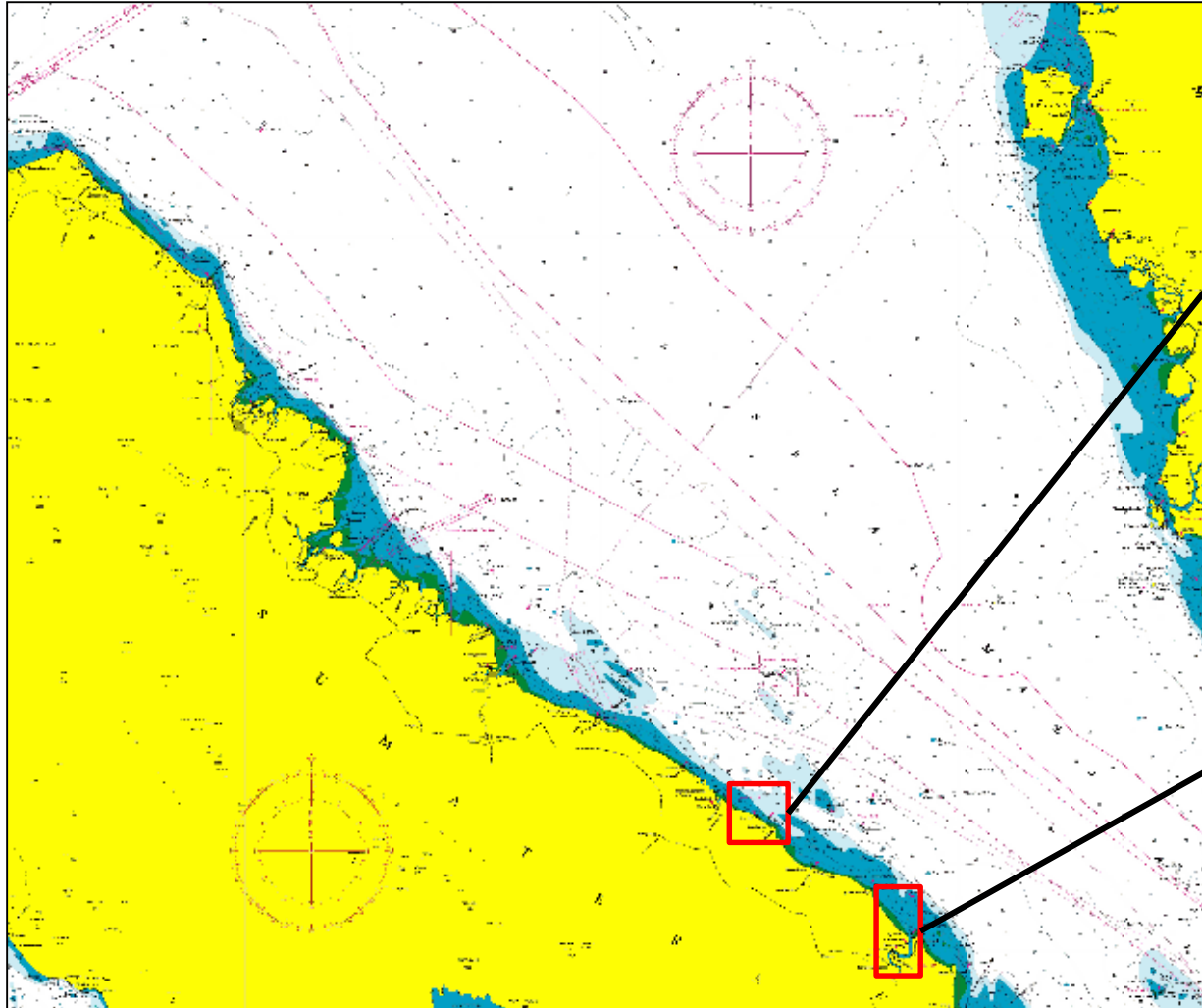


## HYDROGRAPHIC SURVEY HAS DONE BY KRI SPICA 934

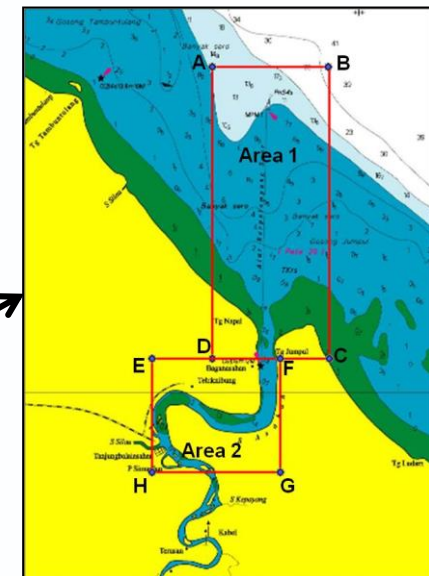




## INDONESIAN SURVEY AREA AT MSS 2017



Kuala Tanjung Harbour



Tanjung Balai Asahan

PUSAT HIDROGRAFI DAN OSEANOGRAFI  
TNI ANGKATAN LAUT



# Terimakasih



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