




## HYDROGRAPHIC ACTIVITIES



**of** **INDONESIAN HYDROGRAPHIC OFFICE**

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## HISTORY, MISSION and FUNCTION **DISHIDROS**



GOVERNMENT  
REGULATION  
No. 23 / 1951

CIVILIAN HYDROGRAPHIC  
BUREAU  
INDONESIAN NAVY  
HYDROGRAPHIC  
SERVICE

PRESIDENT DECREE  
No. 164 / 1960  
↓  
MERGER CIVILIAN HYDROGRAPHIC  
BUREAU TO INDONESIAN NAVY  
HYDROGRAPHIC SERVICE

### Mission

**DINAS HIDRO-OSEANOGRAFI (Abbreviated as DISHIDROS)** or the Hydro-Oceanographic Service is an institution dealing with Hydrographic and Oceanographic affairs including survey and charting activities for the purpose of safety of navigation

**DISHIDROS is an operational body within the NHQ.** The principle functions of the Hydro-Oceanographic Service ranges from surveys, researches, the publications of nautical charts, marine environment and safety of navigation, to support armed forces and public needs.

## CAPABILITY of **DISHIDROS**

### 6 SURVEY VESSELS

5 KRI, 1 KAL (TRAINER SHIP), 4 SURVEY UNITS

The Capabilities of Survey :

± 24 SURVEYS / YEAR =

- 2 DEEP OCEAN SURVEYS
- 10 COASTAL SURVEYS (by VESSELS)
- 12 COASTAL SURVEYS (by SURVEY UNITS)

- CHARTS IN VARIOUS SCALES AND TYPES : NAV CHARTS 421 NUMBERS, THEMATIC MAPS 160 NUMBERS, MILITARY : 38 NUMBERS
- PUBLICATION OF NAUTICAL BOOKS

### HUMAN Resources :

1025 persons (FEB 2004)

- NAVAL ACADEMY
- UNIVERSITIES
- COLLEGES

SCIENTIST IN VARIOUS DISCIPLINES OF HYDRO-OCEANOGRAPHIC KNOWLEDGE

## 6 SURVEY VESSELS

**KRI DEWA KEMBAR (932)**

SPECIFICATION :

LOA : 82 M  
 WIDTH : 11,4 M  
 Draft : 4 M  
 SPEED : 11 KTS  
 SURVEY LAUNCH : 3 UNITS  
 LCVF : 1 UNITS  
 HELY DECK : 1 UNITS

**KAL ARIES**

SPECIFICATION :

LOA : 21 M  
 WIDTH : 4 M  
 Draft : 1,4 M  
 SPEED : 6 KTS  
 SURVEY LAUNCH : -

**KRI P. ROTE 721, KRI P. ROMANG 723, KRI P. REMPANG 729, KRI LEUSER 924**

SPECIFICATION :

LOA : 96,73 M  
 WIDTH : 7,9 M  
 Draft : 2,49 M  
 SPEED : 9 KTS  
 SURVEY LAUNCH : 1 UNITS

## The Main Survey Equipment of **DISHIDROS**

### Hydrographic Equipments

- GPS/DGPS : 48 units
- Echosounder : 17 units
- Sidescan Sonar : 3 units
- Magnetometer : 6 units
- Sub bottom profile : 1 units
- Logging Data : 11 units

### OCEANOGRAPHIC EQUIPMENTS:

- WAVE RECORDER : 4 units
- CURRENT METER : 12 units
- TIDEREORDER : 7 units
- CTD RECORDER : 7 units
- TEMP. RECORDER : 9 units
- WATER SAMPLER : 8 units

### METEOROLOGY EQUIPMENTS : 6 units

## DATA PROCESSING EQUIPMENT

- NAVMAP ( NAVIGATION MAPPING ), 3 WORK STATION
- CARIS HIPS/SIPS ( HYDROGRAPHIC/SIDESCAN SONAR INTEGRATED PROCESSING SYSTEM ), 1 WORK STATION

### PRODUCTION EQUIPMENT

PRINTING MACHINE

- ROLAND 800
- GTOZ 52
- TOPOMASTER
- HEIDELBERG PRINTING MASTER

# CARTOGRAPHIC AND DIGITAL MAPPING EQUIPMENTS

## HARDWARE

- 9 WORK STATION (UNIX)
- 2 WORK STATION (WINDOWS NT)
- 3 WORK STATION FOR ENC
- 2 WORK STATION FOR RASTER CHART
- 2 WORK STATION FOR ECDIS
- 1 WORK STATION (PUBLISHER)
- 4 DIGITIZER TABLE
- 2 PLOTTER (A0)
- 4 SCANNER (A0)
- 2 PRINTER (A3)

## SOFTWARE

- CARIS EDITOR (under UNIX & Wins NT)
- CARIS HCRF (raster charts)
- CARIS HOM (ENC)
- SEVENCs (ENC)
- ORCA MASTER (ECDIS)
- TRESKO NAVIGIS (ECDIS)

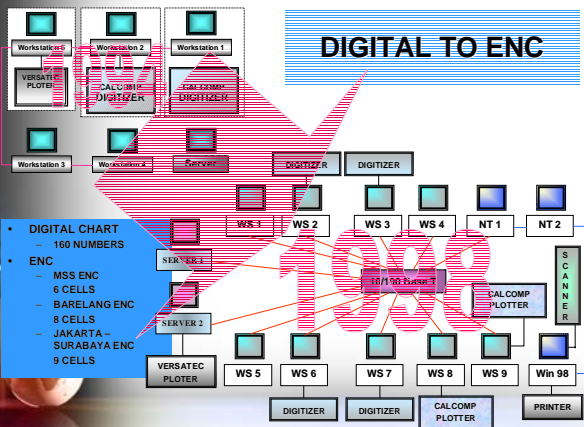


TOTAL OF CHARTS 581 NUMBERS

- NAUTICAL CHARTS : 421 NUMBERS
- THEMATIC CHARTS : 160 NUMBERS
- BATHYMETRIC CHARTS : 33 NUMBERS
- MAGNETIC CHARTS : 29 NUMBERS
- ECONOMIC EXCLUSIVE ZONE CHARTS : 17 NUMBERS
- BASE POINTS CHARTS : 65 NUMBERS
- GENERAL BATHYMETRIC CHART OF THE OCEAN (GEBCO) : 16 NUMBERS

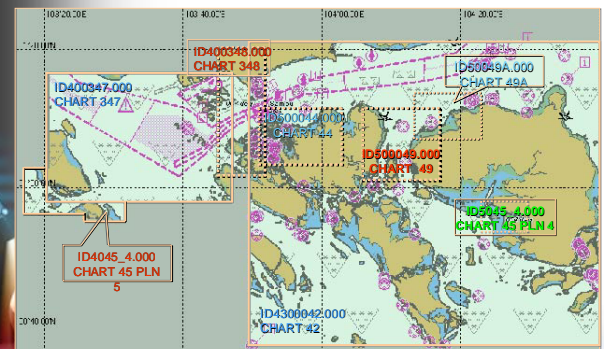
The Capability of DISHIDROS in publishing Navigational Charts is ± 60 Numbers each year

## DIGITAL TO ENC

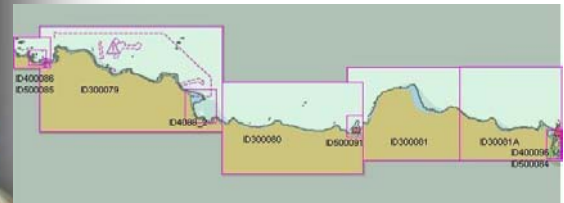


- DIGITAL CHART - 160 NUMBERS
- ENC
  - MSS ENC - 6 CELLS
  - BARELANG ENC - 8 CELLS
  - JAKARTA - SURABAYA ENC - 9 CELLS

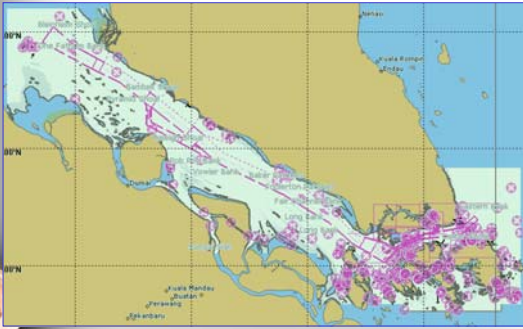
## ENC BARELANG



## ENC JAKARTA - SURABAYA



## MALACCA SINGAPORE STRAITS ENC



# MEH

MARINE ELECTRONIC HIGHWAY

### OBJECTIVE OF MEH

ESTABLISHING MARINE ELECTRONIC HIGHWAY IN THE STRAITS OF MALACCA AND SINGAPORE

1. REDUCING THE FREQUENCY OF SHIP COLLISIONS
2. MAKING MARINE NAVIGATION IN THE STRAITS SAFER
3. TRACKING AND MONITORING VESSELS OPERATIONS
4. SUPPORTING COASTAL AND MARINE RESOURCE CONSERVATION AND MANAGEMENT

## MEH PROJECT

