



**HYDROGRAPHIC AND OCEANOGRAPHIC CENTER  
OF THE REPUBLIC OF INDONESIA**

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Nr : B/28/V/17

Jakarta, 31 MAY 2017

Commander Ahmed Hafez

Chairman of North Indian Ocean Hydrographic Commission (NIOHC)

Dear Commander Ahmed Hafez,

I am Rear Admiral Harjo Susmoro, Indonesian Chief Hydrographer of the Republic of Indonesia and as Head of the Naval Hydrographic and Oceanographic Center of the Republic of Indonesia or Pusat Hidrografi dan Oseanografi TNI AL (PUSHIDROSAL). Pushidrosal was established in 1951. We currently have 1.233 employees and will increase until 2.141 employees. Our office located in Jakarta, Indonesia. The objectives of Pushidrosal is to take care of the hydrographic matter such as hydrographic survey, research, charting, nautical publications, marine environmental research, and safety for navigation in the territorial waters and also international waters.

It would be advantageous for all of us to have a productive cooperation in the region, especially to support safety of maritime navigation and other related to maritime aspects. The aims of NIOHC, which is an integral part of the International Hydrographic Organization (IHO) would be at the same track to the objectives of Pushidrosal in establishing and strengthening our hydrographic capabilities to serve maritime interests, international navigation and protection of the marine environment.

Refer to the aims of NIOHC, I formally request your consideration to join as a member of the NIOHC. Our primary reason is the geographic position of Indonesia, where we also have maritime jurisdiction which span to the Indian Ocean region. Moreover, Indonesia has been an active member in the Indian Ocean Rim Association for Regional Cooperation (IOR-ARC) since 2008. Indonesia is currently chair of the Indian Ocean Rim Association (IORA), Indonesia is seeking to use its chairmanship to make IORA more active and dynamic in responding to regional strategic issues and economic opportunities.

I would expect my proposal to join NIOHC can be further considered and approved by you and NIOHC state members.

Thank you for your kind assistance.

Sincerely yours,



**Rear Admiral Harjo Susmoro**

## **PROFILE OF PUSHIDROSAL**

Pusat Hidrografi dan Oseanografi TNI Angkatan Laut (Pushidrosal) or The Indonesian Navy Hydrographic and Oceanographic Center is hydrographic and oceanographic organization under the Indonesian Navy Head Quarters. According to the Presidential decree of the Republic of Indonesia Number 62/2016 as an amendment to the Presidential decree of the Republic of Indonesia Number 10/2010 about Organization Structure of Indonesian Armed Forces, Dinas Hidro Oseanografi TNI Angkatan Laut (Dishidros) was promoted became Pusat Hidrografi dan Oseanografi TNI Angkatan Laut (Pushidrosal).

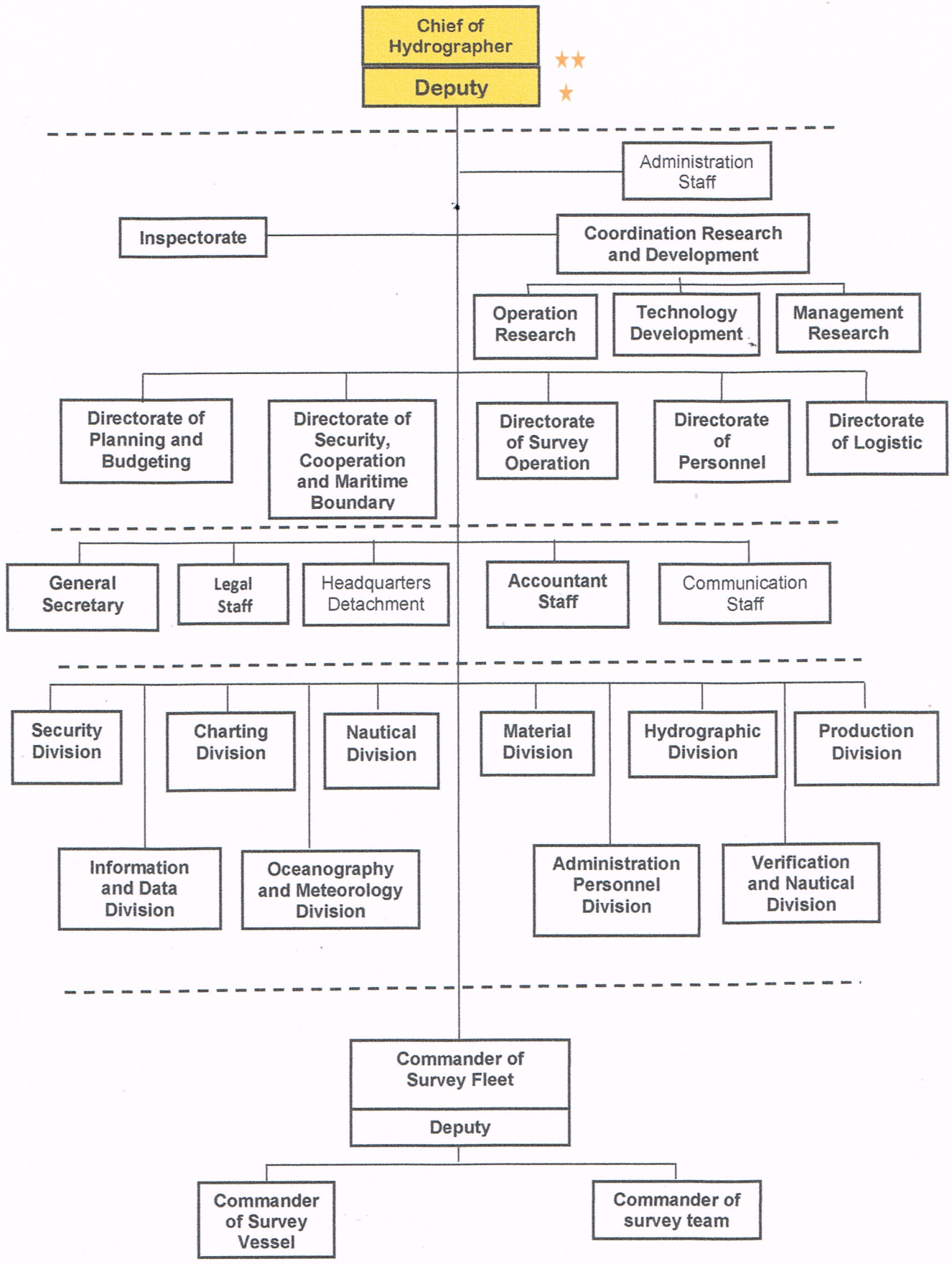
The objectives of Pushidrosal is to carry out hydro-oceanographic survey, marine research, nautical chart, nautical publication, and marine environment to support safety of navigation and serves data and information for national defense and public needs.

According to the main task, as hydrographic organization, Pushidrosal responsible to set up and provide hydro-oceanographic data and information to support safety of navigation for all ship navigate in the Indonesian waters. For the safety of navigation in the Indonesian waters, Pushidrosal is the charting authority, and responsible to set up and provide Nautical Information, for instance by publish nautical paper chart as well as electronic nautical chart and nautical publication.

As a national hydro-oceanography organization in Indonesia, Pushidrosal is a legal representative of Indonesia in the International Hydrographic Organization. Pushidrosal was officially accepted as member of IHO on 18<sup>th</sup> October 1951. Nowadays, Pushidrosal also become member state of East Asia Hydrographic Commission (EAHC) and active as Republic of Indonesia delegation on the several international organization such as International Maritime Organization (IMO), Inter-Government Oceanographic Commission (IOC), United Nations Conference on Standardization of Geographical Names (UNCSGN) and United Nations Group of Experts on Geographical Names (UNGEGN).

### **Structure Organization of Pushidrosal**

Pushidrosal is a military organization under the Indonesian Navy Head Quarter and lead by two stars rank or Rear Admiral. Today Pushidrosal is lead by Rear Admiral Harjo Susmoro as Indonesian Chief of Hydrographer and Commodore Trismadi as Deputy of Chief of Hydrographer. The structure organization of Pushidrosal as below:



## Capability of Pushidrosal

Pushidrosal has 1.131 employees and will increase until 2.141 employees. They were came from various background of hydro-oceanographic science. Pushidrosal has sufficient resources to conduct more than 24 survey operations per year. The survey operation is supported by 6 survey ships, 2 coastal survey boat and 8 coastal survey team. The new survey ships of Pushidrosal namely Rigel and Spica already join the survey squadron on 2015 and already serve to conduct survey operation in the Indonesia archipelagic sea lines to update hydrographic data and information in that area.

To conduct survey operation in the Indonesian waters, Pushidrosal has capability to doing Single beam and Multi beam survey with IHO standard qualification. The capability of Pushidrosal survey equipment is as follow:

1. DGPS units
2. Multibeam Echosounder
3. Singlebeam Echosounder
4. Side Scan Sonar
5. Sub Bottom Profiler
6. ROV
7. AUV
8. Magnetometer
9. Wave Recorder
10. Tide Recorder
11. Meteorology equipments
12. etc.

Product of Pushidrosal consists of :

1. Nautical paper chart
2. Electronic Nautical Chart
3. Bathymetric chart
4. National marine environment chart
5. Indonesian Maritime Boundary Chart
6. Notice to Mariners
7. Nautical Almanac
8. Surface current chart
9. Tide tables
10. Tidal stream tables
11. List of lights
12. Indonesia Port information
13. Sailing directions
14. Marine environment information
15. Mine areas

16. Wreck list
17. Radio navigational warnings
18. Indonesian waters weather charts
19. Sea surface temperatures

Instead of providing Nautical Information, Pushidrosal also support Indonesian Government policy to develop maritime sectors, development Hydrographic data Centre (HDC) as an implementation of Marine Spatial data Infrastructure (MSDI) in Indonesia, including provide necessary data and information for the One Map Policy, sharing information with other Government bodies like Department Internal Affairs, Ministry of Foreign Affairs, Ministry of Marine and Fisheries, etc.

Jakarta, 31 Mei 2017

Indonesia Chief Hydrographer



**Real Admiral Harjo Susmoro**