COUNTRY REPORT ON THE OCEANOGRAPHIC RESEARCH AND DATA MANAGE JENT ACTIVITIES IN INDONESIA

1. Introduction

Indonesia is recognized by the United Nations Convention on The Lavi of The Sea (UNCLOS) 1982 as an Arch relagic State., Indonesian state covers a huge water area consisting of around 2.9 millig 1 Km² archipelagic waters, 0.3 million Km² Territorial sea, 2.7 million Economic Exclusi 2 Zone. Such a huge water contents considerable abundant of living and non-living rescurces, which preserve for efficient utilization to support national development.

format.

Indonesian Hydro-oceano raphic Service (DISHIDROS) is national institution that has function and authority to conduct the surveys, mapping and oceanographic researches, either for the defer is or the national importance, especially for the navigation safety of the vessels shipping in Indonesian waters. Hence, one of its responsibilities is collecting oceanographic data of Indonesia waters. Providing the oceanographic data is necessary for planning of co stal zone management, offshore engineering project and monitoring marine behavior. 1 addition, such data is indispensable for comprehensive study of the ocean hydrodyn mic especially Indonesian stream as well a: Indonesian monsoonal current and the i fect of external forces to the ocean such as El Nino. DISHIDROS as the National Tide Data Center will apply National and International format data to store up its oceanographic data. For this reason, DISHIDROS has coordinated with other Indi resian Oceanographic Institutions to recover existing oceanographic data and to convert existing format data to National or International data

2. **Data Collection**

meteorology data.

Oceanographic data in Incomesian has acquired by some oceanographic institutions. DISHIDROS is one of those institutions which is by itself or collaborates with other oceanographic institutions or bint survey/research with another country has carried out hydrographic survey and occ mographic research to collect oceanographic data. The oceanographic data almost al of Indonesian waters was stored by DISHIDROS. Such data has acquired both since overnment of Netherlands Indies and after Independence of Indonesian. The data are so nding data, tide data, current data, CTD data and maritime

On the other hand, o eanographic research was conducted by oceanographic institutions in Indonesia basec on their function and the competence of eac's institution, i.e. for science purposes, safet of navigation, fisheries, marine monitoring, defense, etc. Hydrographic survey and oce. 10graphic research which conducted by DISHIDROS are Port Development, Fisheries, Science, Up dating Nautical Chart, Indonesian Archipelagic Sea Lane, Marine Monitoring, Base Point, Economic Exclusive Zone (EEZ).

3. **Current Status**

The institutions to collect the Ocean Data in Indonesia

	INSTITUTION	TIDE	CRRENT		NAUTICAL CHART	CHEMICAL OF SEA WATER	CTD	GEOLOGY	METEOROLOGY MARINE	REMARKS
1	DISHIDROS	ζ	X	Χ̈́	X	X	\mathbf{X}		X	
2	BPPT					X	X		X	
3	BAKOSURTANAL									
4	LIPI		X		X	X	X		X	
5	PPGL							X		
6	DKP					X	X			
7	BMG							_	X	

Note

DISHIDROS

= HYD. O-OCEANOGRAPHIC SERVICE

BPPT

= AGE: CY FOR THE ASSESSMENT AND APPLICATION OF

TEC: NOLOGY

BAKOSURTANAL = NATI)NAL COORDINATION FOR SURVEY AND

MAP ING AGENCY

LIPI **PPGL** = INDC JESIAN INSTITUTE OF SCIENCES

= MAR NE GEOLOGY RESEARCH CENTER

DKP

= DEPARTMENT OF MARINE AND FISHERIES

BMG

= MET OROLOGICAL AND GEOPHYSICAL AGENCY

4. Policy of Oceanograp ic Data at Dishidros

Data Processir ; and Analyzing

The collected data are irstly entered in the processing section to control the data quality, so the valid tata can be continued to be processed and analyzed furthermore, while first of all the doubtful accuracy data are memorized to be checked in the next sur ey. The data processing and analyzing are done by the personnel's having the 1 'drographic qualification and conformed to the requested output. The produced da 1 and informations are memorized in two for ns, firstly in the form of the digital da 1-base, and secondly in the computer / CD / disc.

Follow up GODAR-WE JTPAC meeting 2001, DISHIDROS has been converted oceanography data form it from hard copy to be digital data as IODE format and inventory old data of ceanography. The Oceanography dates which have been converted to be IODE for mat as follows:

- (1) Current data, tide, and Maritime geography data of the Makasar Strait waters.
- (2) Current data, tide and maritime meteorology data of ALKI Indonesian Archipelagic Sea I ne) I - III.
- Temperature data, alinity, conductivity and sound velocity data of around of Kalimantan Island vaters.

Oceanography data which had been inventoried as follows:

- (1) Temperature data, alinity, Sigma-T, O2, PO4 Year 1964 of Java Sea Waters, Allas Strait, Sunda Strait, Flores sea waters, Banda Sea waters And Arafuru
- (2) Temperature data, alimity, O₂, PO₄ Year 1965 of Java Sea waters, Roti Strait and Indian oceans.
- (3) Temperature data, alinity, sigma-T, O₂ Year 1967 of Makassar Strait Waters, Banda Sea, Arafun Sea and Flores Sea.
- (4) Temperature data, alinity, Sigma-T Year 1967 of Arafuru waters.
- (5) Temperature data, Ilinity, O2, PO4 Year 1967 of South of China Sea and Karimata Strait.
- (6) Temperature data, alinity, O₂ Year 1967 of Sulawesi Sea and Makassar Strait.
- (7) Temperature data, alinity, O2, PO4 Year 1967 of Arafuru Sea, Timor sea and Sawu sea
- (8) Temperature data, alinity, sigma-T, O₂ Year 1968 of Maluku Sea and Banda
- (9) Temperature data, ilinity, Sigma-T, O2, pH Year 1968 of Java Sca

b. Information/Data Cl ssification

Data/information is classified into 3 groups, including the secret, restricted and (open) data. The secret information/data is the data/information used to the defence/military purpose The restricted data means that the data/information can be used in the limited field While the usual classification is concerned to the open data/information. The de ermination of the oceanographic data classification is so complex if it is faced to the maritime people requiring the oceanographic data, because the oceanographic data depend on the technology, the riethods, the purposes, and the person el capabilities in processing and analyzing.

c. Information/Data Dis ribution

In supporting the mai functions of Dishidros, one of them is for the public service, so the product are distributed by the section of the production and distribution, while the de a/information services are carried out by the section of the hydro-oceanographic da i information memorizing all the oceanographic data of Dishidros.

the data requests by pers nal will be checked and investigated first of all.

In the services of the oceanographic data requests to Dishidros, the process is not too difficult, more ver for the government institutions or the students conducting the research. Dishidros always gives the data (if there are the requested data), only by proposing he formal letter from the relevant institution. The cases of

5. Conclusion

- DISHIDROS is or of Indonesian oceanographic institutions and one of its responsibilities to ollect oceanography data, through oceanography research and hydrographic s rvey in Indonesian waters.
- DISHIDROS store; up the oceanographic data almost all of Indonesian b. waters, such as so inding data, tide data, current data, CTD and maritime meteorology data.
- Which one functio of DISHIDROS is public service, having policy to make C. IODE format for c eanography at the future.