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**INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION
(of UNESCO)**

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**REPORT ON ACTIVITIES OF THE RESPONSIBLE
NATIONAL OCEANOGRAPHIC DATA CENTRES
(RNODCs in Japan – WESTPAC, IGOSS,
MARPOLMON, ADCP)**

REPORT ON ACTIVITIES OF THE RESPONSIBLE NATIONAL OCEANOGRAPHIC DATA CENTRES (RNODCs in Japan – WESTPAC, IGOSS, MARPOLMON, ADCP)

1. Name of Responsible National Oceanographic Data Centre:

Responsible National Oceanographic Data Centre for IGOSS
Responsible National Oceanographic Data Centre for WESTPAC
Responsible National Oceanographic Data Centre for MARPOLMON
Responsible National Oceanographic Data Centre – ADCP

2. Responsible National Oceanographic Data Centre Coordinator:

Name: Teruo KANAZAWA (from 1 April 2005)
Address: 5-3-1, Tsukiji, Chuo-ku, Tokyo, 104-0045, JAPAN
Tel: +81-3-3541-4295
Fax: +81-3-3545-2885
E-mail: mail@jodc.go.jp

3. RNODC URL (homepage):

<http://www.jodc.go.jp/>

4. RNODC on-line data access URL (if applicable)

<http://www.jodc.go.jp/>

5. RNODC Designation Date:

- 1) IGOSS: Integrated Global Ocean Service System: 1975
- 2) WESTPAC: IOC sub-commission for the Western Pacific Region: 24 February 1979
- 3) MARPOLMON: Marine Pollution Monitoring Network: 3 May 1987
- 4) ADCP: Acoustic Doppler Current Profiler: 27 June 1991

6. RNODC scope

6.1 Does your RNODC cover a specific region or is it of global coverage (and specify):

RNODC for WESTPAC covers the Western Pacific region, and others are of global coverage.

6.2 Does your RNODC focus on one or more data types (and specify):

RNODC for WESTPAC focuses on many data types.
RNODC for IGOSS focuses on BATHY and TESAC.
RNODC for MARPOLMON focuses on marine pollution data.
RNODC-ADCP focuses on the only ADCP data.

7. Description of Responsible National Oceanographic Data Centre data flow:

1. Metadata management:

As RNODC for WESTPAC, JODC collects Cruise Summary Reports from WESTPAC member states and makes them available on the JODC web site, <http://www.jodc.go.jp/service.htm>.

2. Quality control:

Quality control procedure is described in the NODC report of Japan.

3. Data Archiving:

The table below shows the numbers of archived data in the WESTPAC region. The column 'Year' shows the observed year.

YEAR	Bottle Sampling	CTD	XCTD	XBT	ADCP
1979	7,225	2,709	0	7,610	0
1980	8,148	2,299	0	11,559	0
1981	6,857	3,081	0	9,112	0
1982	7,836	2,967	0	11,042	0
1983	7,967	3,965	0	11,337	0
1984	6,021	4,670	0	11,618	0
1985	5,436	5,765	0	14,909	3,386
1986	8,526	5,770	0	16,955	7,574
1987	10,048	7,072	0	16,427	7,276
1988	10,207	9,812	0	17,591	13,718
1989	8,817	10,487	0	16,044	57,410
1990	8,719	11,731	0	22,151	69,104
1991	6,408	14,903	0	20,329	48,648
1992	4,487	15,714	0	25,563	64,100
1993	3,684	14,245	0	38,091	94,617
1994	1,601	1,996	0	29,246	21,142
1995	1,381	1,780	0	42,315	302,758
1996	1,323	2,029	0	32,778	826,070
1997	1,259	1,934	0	10,010	647,735
1998	1,166	1,712	7	11,272	597,124
1999	962	1,839	40	10,130	505,597
2000	958	1,729	48	11,234	66,293
2001	935	1,705	77	11,951	141,091
2002	0	2,285	178	1,674	67,502
2003	0	0	79	1,494	570
2004	0	0	120	735	0
Total	119,971	132,199	549	413,177	3,541,715

RNODC for MARPOLMON mainly collects the four types of data; oil slick, tar ball, beach tar, and hydrocarbon. The numbers of archived data in each year are shown in the table below.

YEAR	Oil slick	Tar ball	Beach tar	Hydrocarbon
1973	0	341	0	0
1974	1,493	229	0	10
1975	16,712	1,059	404	604
1976	16,236	1,096	799	722
1977	19,683	738	740	877
1978	22,580	606	665	482
1979	14,699	384	676	387
1980	5,988	504	581	423
1981	3,948	501	570	362

1982	1,122	459	588	334
1983	583	585	560	329
1984	277	417	588	98
1985	382	449	582	239
1986	865	536	624	81
1987	1,015	598	638	62
1988	1,492	495	653	65
1989	1,948	564	679	68
1990	1,674	527	650	65
1991	1,286	467	647	60
1992	1,215	441	634	61
1993	991	420	618	60
1994	1,221	346	588	52
1995	1,517	324	583	53
1996	1,413	119	0	71
1997	1,783	110	0	86
1998	2,152	90	0	26
1999	1	95	10	66
2000	0	233	548	67
2001	0	205	539	35
2002	0	105	0	64
TOTAL	122,276	13,043	14,164	5,909

4. Data dissemination:

Since 1995, JODC has operated an online data retrieval system, J-DOSS (JODC Data Online Service System <http://www.jodc.go.jp/service.htm>), which provides serial station data, ocean current data, tidal data, bathymetric data, and marine plankton data, through Internet. In 2004, total of 38,246 files were downloaded from J-DOSS. The table below shows the numbers of data download from top 3 countries of serial station data, ocean current data, and tidal data in 2004.

Order	Serial Station Data		Ocean Current Data		Tidal Data	
	country	number	country	number	country	number
1	Japan	4,566	Japan	692	Japan	18,179
2	Russia	532	USA	154	Korea	2,097
3	Korea	412	China	126	USA	2,048

8. During the last intersessional period:

8.1 How many organisations sent data to your Data Centre?

More than 100 organizations sent oceanographic data (including sea surface temperature at coastal sites) to our Data Centre in 2004.

8.2 What data products and publications were produced and distributed by your Data Centre:

JODC publishes and distributes two newsletters, JODC News and RNODC Activity Report. JODC News is published bi-annually for Japanese oceanographic community, in which articles are written in Japanese. On the other hand, RNODC Activity Report is an English newsletter, which provides IODE community with the news about the activities of JODC, as RNODCs, annually. Both are also available on JODC web site, http://www.jodc.go.jp/jodc_pub/digitalpub.html.

During the intersessional period, JODC published the following four datasets.

- ✧ Japanese Experiment on Asian Monsoon (JEXAM)
- ✧ Ecological Study Dataset of Microbial Web in Tokyo Bay (ECOMIC)
- ✧ Statistics of Wave Data in the adjacent Seas of Japan
- ✧ JGOFS North Pacific Process Study Dataset

The detail of each dataset is described in RNODC Activity Report No.15 and No.16.

8.3 Who (physically) visited your Data Centre (ie as a person, not on-line)?

The following persons attended the seventh IOC/WESTPAC Training Course on NEAR-GOOS Data Management held at JODC in November 2003.

Name	Country	Institution
Nanyan Huang	China	National Marine Data and Information Service, State Oceanic Administration
Muhamad Jafar Elly	Indonesia	Research Center for Oceanography, Indonesian Institute of Science
Yong Huh	Korea	National Oceanographic Research Institute
Rene Eclarino	Philippines	Coast and Geodetic Surveys Department, National Mapping and Resource Information Authority
Vladimir Rostov	Russia	Pacific Oceanological Institute
Sirirat Boonsopa	Thailand	Hydrographic Department, Royal Thai Navy
Dung Tran Tuan	Vietnam	Hanoi Institute of Oceanography

The following persons attended the Second International Workshop for GODAR-WESTPAC held at JODC in November 2004.

Name	Country	Institution
Lesley Rickards	UK	British Oceanographic Data Centre (BODC)
Sydney Levitus	USA	World Data Center for Oceanography, Silver Spring
Nikolay A. Rykov	Russia	Far Eastern Regional Hydrometeorological Research Institute
Hak-Gyoon Kim	Korea	Korea National Oceanographic Data Centre (KODC), National Fisheries Research and Development Institute
Fengyi Guo	China	National Marine Data and Information Service (NMDIS)
Dung Tran Tuan	Vietnam	Hanoi Institute of Oceanography
Shamsuddin bin Yusoff	Malaysia	RMN Oceanographic Data Centre, Hydrographic Department, Royal Malaysian Navy
Tri Wiyanto	Indonesia	Marine Environmental Division, Hydro-Oceanographic Service
Greg Reed	Austraria	Australian Ocean Data Centre Joint Facility
Catherine Maillard	France	SISMER, IFREMER
Peter Pissierssens	France	Intergovernmental Oceanographic Commission (IOC)/UNESCO
Miguel D. Fortes	Thailand	IOC/WESTPAC
Somboon Siriraksophon	Thailand	Southeast Asian Fisheries Development Center (SEAFDEC)
Penchan Laongmanee	Thailand	Southeast Asian Fisheries Development Center (SEAFDEC)
Igor Rostov	Russia	Pacific Oceanological Institute
Igor Shevchenko	Russia	Pacific Scientific Research Fisheries Center (TINRO-Center)
Victor A. Akulich	Russia	Pacific Oceanological Institute

8.4 What kind and how many requests did your Responsible National Data Centre receive? Was this different from previous reporting periods?

As mentioned in the section 7.4, 38,246 files were downloaded from J-DOSS in 2004. It is of 38% increase compared to 2003.

8.5 What data and information get passed on to other World Data Centres? Has there been any joint activity with other World Data Centres?

We send oceanographic data collected from Japanese institutes to World Data Centres once a year. We work with WDC for Oceanography, Silver Spring on the GODAR-WESTPAC project.

8.6 Do you have contacts with IODE RNODCs? (if so please specify)

We provided data for RNODC for the Drifting Buoy and RNODC-SOC in 2004.

9. What are the strengths and problems of the present arrangements for the Responsible National Oceanographic Data Centre System?:

The Working Group for the Western Pacific (WESTPAC), the predecessor of the present IOC Sub-Commission for the Western Pacific, recognized the importance of the regional data center. At its first session in February, 1979, the working group adopted the Decision-WESTPAC-I.17, Responsible National Oceanographic Data Centre for WESTPAC. Based on this decision, RNODC for WESTPAC was established at JODC. Since then, RNODC for WESTPAC has continued to be in linkage with the IOC subsidiary body. As for RNODCs which are responsible for regional programmes, their major strengths are the linkage with the IOC subsidiary bodies.

At the 2nd International Workshop for GODAR-WESTPAC held in November 2004, some WESTPAC member states noted that oceanographic data within the EEZ could not be provided for the foreign organizations due to the national legislation. National policy of each member state might make internationally data exchange difficult and prevent RNODC for WESTPAC from conducting its mission.

10. What improvements could be made to the Responsible National Oceanographic Data Centre System?:

RNODC system is important not only for IODE but also for the international cooperation of oceanographic research. RNODC system should take the authentic position and play a leading role for data management in the international oceanographic activities such as WESTPAC. For an example, our JODC and the IODE Regional Coordinator for WESTPAC are promoting the GODAR-WESTPAC to encourage IODE activities and to develop the international cooperation between NODCs in the WESTPAC region. Promoting such cooperative activities in the specified field of oceanographic subjects is indispensable to develop RNODC system successively.

11. What future activities are planned by your Responsible National Oceanographic Data Centre?:

The 8th IOC/WESTPAC Training Course on NEAR-GOOS Data Management is scheduled to take place at JODC in November, 2005.

JODC will host the 3rd International Workshop for GODAR-WESTPAC (Global Oceanographic Data Archaeology and Rescue project in the Western Pacific) in 2006