



R N O D C ACTIVITY REPORT

No. 18 March 2007

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Proposal to initiate a pilot project of Ocean Data and Information **Network f**or the Western Pacific region (ODINWESTPAC)......21

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1. Prep-ODINWESTPAC

The Preparatory meeting for establishment of ODINWESTPAC (Prep-ODINWESTPAC) was held in conjunction with the 3rd International workshop on GODAR-WESTPAC, 4-6 December 2006, Japan.

The objectives of the preparatory meeting are to provide information on ODIN projects and how they assist IOC regions; to inform the participants on the history of the ODINWESTPAC proposal; re-assess need for ODINWESTPAC; to assess the available resources and needs for data and information management capacity building in the region and how these needs can be met; to identify ODIN services and products that need to be developed; to start the preparation of an ODINWESTPAC work plan for 2007-2009; to set up an ODINWESTPAC management structure to start the activities.

The meeting was hosted by the Japan Oceanographic Data Center, attended by Representatives from IODE, IOC/WESTPAC, NEAR-GOOS, NOWPAP, SEAFDEC, and data managers from Australia, China, Japan, Korea, Malaysia, Philippines, Russia and Vietnam. The meeting was opened by Mr. Kunikazu Nishizawa, Director of JODC. Dr. Hyun-Tack Huh and Mr. Peter Pissierssens addressed the meeting on behalf of the IOC/WESTPAC and IODE, respectively. Mr. Peter Pissierssens from IODE was invited to give a presentation on the ODINs and the background information on the ODINWESTPAC proposal. Representatives from NEAR-GOOS, NOWPAP and member states were also invited to brief the meeting on the activities on data and information management.

In view of the requirements for an enhanced data and information capability in the WESTPAC region, including development and establishment of NODCs, training in applying standard formats and methodologies for marine data and information management, development and maintenance of national, regional metadata bases, and development and dissemination of marine data and information products and services, the meeting recognized the importance of the establishment of ODINWESTPAC in the WESTPAC region and strongly recommended that the ODINWESTPAC project should be approved by the 7th Session of IOC/WESTPAC which would take place in 2008.

To facilitate the approval of ODINWESTPAC project and to draw some useful experience for the future ODINWESTPAC, the meeting agreed on a proposal to initiate a pilot project of ODINWESTPAC. This pilot project proposal will be submitted to the 19th Session of the IODE Committee (12-16 March 2007) for adoption. If adopted, it is expected that the pilot project will start after adoption by IODE-XIX and end at WESTPAC-VII (provisionally planned for September 2008). During the pilot project, survey of needs for capacity building in the WESTPAC region, development of capacity building tools and services and development of proposal of ODINWESTPAC for WESTPAC-VII have been planed.

The list of participants on Prep-ODINWESTPAC is shown in ANNEX I.

The proposal of pilot project for ODINWESTPAC to IODE-XIX is shown in ANNEX II.

2. RNODC's Activities under the Charge of the JODC

The Eighteenth Session of IOC Committee on International Oceanographic Data and Information Exchange (IODE-XVIII) was held at the Kursaal, Ostend, Belgium between 26 and 30 April 2005.

The IODE Committee, during its 5 day Session, reviewed the work of the past inter-sessional period. Considerable attention was given to the IODE Review that had taken place during the inter-sessional period. The Committee reviewed all recommendations by the Review Team and made several fundamental and structural change decisions in response to the Review. These included the re-composition of the IODE Officers, the abolishment of the system of RNODCs and IODE Regional Co-ordinator systems.

The Committee decided to abolish the system of RNODCs. However, to ensure that the resources and expertise acquired in the regional RNODCs will not be lost, the Committee instructed the ODIN projects to incorporate the resources of existing regional RNODCs. Similarly, the Committee instructed the Chair to discuss with host centres of other RNODCs how their operations, if considered essential for the international (science) community, could be maintained and properly acknowledged.

IODE officers, at their February 2006 meeting, requested the former RNODCs to incorporate these, as relevant, in the terms of reference of the relevant ODINs. The officers also requested the centres that hosted the former RNODCs for drifting buoys (Canada), IGOSS (Japan, USA and Russia), MARPOLMON (Japan, USA and Russia) and ADCP (Japan) to continue their work until the next Session of IODE.

2.1. RNODC for WESTPAC

2.1.1. Status of CSR and Data Management

The major activities of JODC are the collection and archiving of CSR (Cruise Summary Report of IODE, ROSCOP's third edition), and data from the beginning of the WESTPAC program in 1979.

The geographic scope of the WESTPAC region is shown in Fig. 1.

The CSRs received by JODC in 2006 are shown in Table 1.

Number of Archived Data in the WEATPAC region is shown in Table 2.

The WESTPAC region was referred as from 100 to 180 degree of longitude for the North Hemisphere and the area enclosed by from 110 to 230 degree of longitude and from 0 to 30 degree of latitude in the South Hemisphere, here.

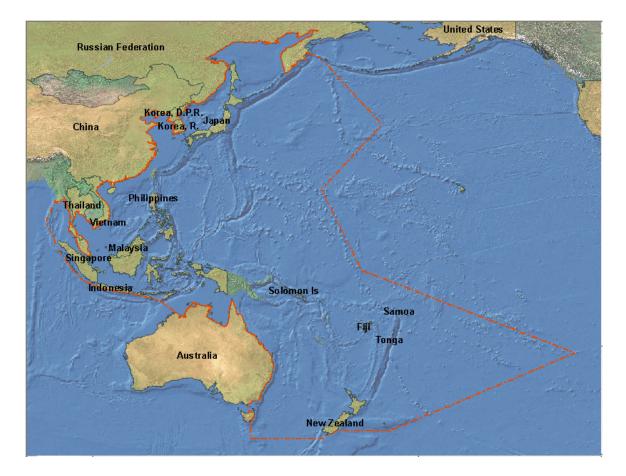


Fig. 1 the Geographic Scope of the WESTPAC Region

| AGENCY | SHIP | AREA | PERIOD | DATA |
|----------|----------------|------------------------------------------------------|-------------------------|---------------------|
| ORI, UT | HAKUHO MARU | North Pacific Ocean | 2005/11/17 - 2005/12/28 | G |
| CMES, EU | TANSEI MARU | Philippine Sea, Inland Sea | 2005/11/6 - 2005/11/11 | G |
| ORI, UT | TANSEI MARU | Philippine Sea, East China Sea | 2005/10/29 - 2005/11/3 | В |
| HOD, JCG | KAIYO | Philippine Sea, North Pacific Ocean | | |
| HOD, JCG | KAIYO | North Pacific Ocean | 2005/6/1 - 2005/6/17 | |
| HOD, JCG | KAIYO | North Pacific Ocean | 2005/6/28 - 2005/7/15 | |
| HOD, JCG | KAIYO | North Pacific Ocean | 2005/7/29 - 2005/8/16 | |
| HOD, JCG | KAIYO | North Pacific Ocean | 2005/8/27 - 2005/9/20 | |
| HOD, JCG | KAIYO | North Pacific Ocean | 2005/10/8 - 2005/11/1 | |
| HOD, JCG | KAIYO | North Pacific Ocean | 2005/12/15 - 2005/12/27 | |
| HOD, JCG | ΚΑΙΥΟ | Philippine Sea, North Pacific Ocean | 2006/1/9 - 2006/1/17 | |
| HOD, JCG | TAKUYO | North Pacific Ocean | 2006/1/9 - 2006/1/26 | |
| ORI, UT | TANSEI MARU | Philippine Sea | 2005/9/18 - 2005/9/24 | G, H |
| ORI, UT | TANSEI MARU | East China Sea | 2005/10/9 - 2005/10/14 | G, H |
| OPMSHS | SHIN OITA MARU | North Pacific Ocean | 2005/4/19 - 2005/11/21 | В |
| ORI, UT | TANSEI MARU | Philippine Sea | 2005/8/8 - 2005/8/14 | D, G, H |
| YNCMT | YUGE MARU | Seto Inland Sea | 2005/7/26 - 2005/7/28 | G, H |
| YNCMT | YUGE MARU | Seto Inland Sea | 2005/8/7 - 2005/8/10 | B, H |
| YNCMT | YUGE MARU | Seto Inland Sea | 2005/12/5 - 2005/12/8 | G, H |
| MMO, JMA | SEIFU MARU | North Pacific Ocean, Japan sea, Sea of Okhotsk | 2005/10/4 - 2005/11/20 | B, D, G, H, M, P |
| KMO, JMA | KEIFU MARU | North Pacific Ocean, Philippine Sea | 2005/11/2 - 2005/12/5 | B, D, G, H, M, P |
| HOD, JCG | SHOYO | North Pacific Ocean | 2006/2/15 - 2006/3/8 | |
| HOD, JCG | TAKUYO | North Pacific Ocean | 2006/2/18 - 2006/3/13 | |
| HOD, JCG | KAIYO | North Pacific Ocean | 2006/2/24 - 2006/3/13 | |
| MFHS | AICHI MARU | East Pacific Ocean | 2005/4/27 - 2005/6/17 | |
| MFHS | AICHI MARU | East Pacific Ocean | 2006/1/27 - 2006/3/20 | |
| ADE | Shiranami | Philippine Sea | 2005/5/24 - 2005/5/25 | H, P |
| ADE | Shiranami | Philippine Sea | 2005/7/12 - 2005/7/13 | |
| ADE | Shiranami | Philippine Sea | 2005/10/12 - 2005/10/13 | |
| ADE | Shiranami | Philippine Sea | 2006/1/17 - 2006/1/18 | |
| ADE | Kamiko Maru | Philippine Sea | 2005/5/24 - 2005/5/25 | |
| ADE | Kamiko Maru | Philippine Sea | 2005/7/12 - 2005/7/13 | |
| ADE | Kamiko Maru | Philippine Sea | 2005/10/12 - 2005/10/13 | |
| ADE | Kamiko Maru | Philippine Sea | 2006/1/17 - 2006/1/18 | |
| ADE | Shiranami | Philippine Sea | 2005/9/15 - 2005/7/15 | H, P |
| HOD, JCG | KAIYO | North Pacific Ocean | 2003/1/31 - 2003/2/5 | Н |
| HOD, JCG | TENYO | North Pacific Ocean | 2003/4/15 - 2003/4/21 | Н |
| HOD, JCG | TENYO | North Pacific Ocean | 2003/8/1 - 2003/8/7 | Н |
| HOD, JCG | KAIYO | North Pacific Ocean | 2003/12/11 - 2003/12/24 | Н |
| HOD, JCG | TENYO | North Pacific Ocean | 2004/5/29 - 2004/6/4 | Н |
| HOD, JCG | TENYO | North Pacific Ocean | 2004/9/16 - 2004/9/29 | Н |

Table 1 Inventory of CSR Received by JODC in 2006

| AGENCY | SHIP | AREA | PERIOD | DATA |
|-------------------|-------------------|------------------------------------------------------|-------------------------|---------------------|
| HOD, JCG | KAIYO | North Pacific Ocean | 2004/11/9 - 2004/11/22 | Н |
| HOD, JCG | TENYO | North Pacific Ocean | 2004/12/20 - 2004/12/24 | Н |
| HOD, JCG | TENYO | North Pacific Ocean | 2005/2/22 - 2005/3/4 | Н |
| GSJ, AIST | HAKUREI MARU No.2 | Northwestern Pacific along the Japanese islands | 2005/6/13 - 2005/7/12 | G |
| ORI, UT | TANSEI MARU | North Western Pacific | 2004/9/2 - 2004/9/9 | В |
| ORI, UT | TANSEI MARU | Tosa Bay | 2006/5/9 - 2006/5/9 | В, Н, Р |
| HyARC, NagoyaU | TANSEI MARU | Sagami Bay | 2006/5/1 - 2006/5/10 | В, Н |
| ADE | Shiranami | Philippine Sea | 2004/5/24 - 2004/5/25 | H, P |
| ADE | Shiranami | Philippine Sea | 2004/7/12 - 2004/7/13 | H, P |
| ADE | Shiranami | Philippine Sea | 2004/10/18 - 2004/10/19 | H, P |
| ADE | Shiranami | Philippine Sea | 2005/1/17 - 2005/1/18 | H, P |
| ADE | Kaiko-maru | Philippine Sea | 2004/5/24 - 2004/5/25 | H, P |
| ADE | Kaiko-maru | Philippine Sea | 2004/7/12 - 2004/7/13 | H, P |
| ADE | Kaiko-maru | Philippine Sea | 2004/10/18 - 2004/10/19 | H, P |
| ADE | Kaiko-maru | Philippine Sea | 2005/1/17 - 2005/1/18 | H, P |
| ADE | Shiranami | Philippine Sea | 2004/8/23 - 2004/8/23 | H, P |
| KMO, JMA | KEIFU MARU | North Pacific Ocean | 2006/1/18 - 2006/3/2 | B, G, M, D, H, P |
| MMO, JMA | SEIFU MARU | Japan Sea | 2006/1/25 - 2006/3/4 | B, G, M, D, H, P |
| HOD, JCG | MEIYO | Philippine Sea | 2006/5/24 - 2006/6/6 | G |
| PL, HU | TANSEI MARU | Pacific Ocean | 2006/5/22 - 2006/5/30 | H, P |
| HOD, JCG | KAIYO | North Pacific Ocean | 2006/6/26 - 2006/7/12 | G |
| HOD, JCG | ΜΕΙΥΟ | Japan Sea, Sea of Okhotsk, North Pacific Ocean | 2006/6/15 - 2006/7/7 | H, P |
| ORI, UT | TANSEI MARU | North Pacific Ocean | 2006/6/16 - 2006/6/21 | Н |
| HyARC, NagoyaU | TANSEI MARU | Sagami Bay | 2006/8/7 - 2006/8/10 | |
| HOD, JCG | TENYO | North Pacific Ocean , Philippine Sea | 2005/11/26 - 2005/12/16 | Н |
| HOD, JCG | TENYO | North Pacific Ocean | 2006/9/23 - 2006/9/29 | |
| ORI, UT | TANSEI MARU | Pacific Ocean | 2006/8/14 - 2006/8/18 | H, P |
| ORI, UT | TANSEI MARU | Sea of Japan | 2004/10/1 - 2004/10/5 | |
| ORI, UT | TANSEI MARU | Sea of Japan | 2005/5/10 - 2005/5/13 | |
| ORI, UT | TANSEI MARU | Sea of Japan | 2006/9/11 - 2006/9/11 | В |
| ORI, UT | TANSEI MARU | Sea of Japan | 2005/11/21 - 2005/11/27 | D |
| ORI, UT | TANSEI MARU | North Pacific Ocean | 2005/12/13 - 2005/12/17 | D |
| ORI, UT | TANSEI MARU | NW Pacific | 2006/9/12 - 2006/9/12 | G |
| ORI, UT | TANSEI MARU | Western North Pacific, off Honshu, Japan. | 2004/8/14 - 2004/8/19 | В |
| ORI, UT | TANSEI MARU | North Pacific Ocean | 2005/3/22 - 2005/3/31 | G |
| ORI, UT | TANSEI MARU | North Pacific Ocean | 2005/3/22 - 2005/3/31 | G |
| ORI, UT | TANSEI MARU | Japan Sea | 2005/4/23 - 2005/4/29 | G |
| HOD, JCG | MEIYO | Philippine Sea | 2006/8/30 - 2006/9/21 | G |
| HOD, JCG KAIYO NG | | Japan Sea, North Pacific Ocean, East China Sea | 2006/8/23 - 2006/9/4 | H, P |
| HMO, JMA | KOFU MARU | North Pacific Ocean | 2006/4/28 - 2006/6/1 | G, M, H, P |
| ORI, UT | HAKUHO MARU | Western North Pacific 2006/4/26 - 2006/3/17 | | B, H, P |
| ORI, UT | TANSEI MARU | East China Sea, Japan Sea | 2006/10/6 - 2006/10/9 | |
| ORI, UT | TANSEI MARU | East China Sea, Japan Sea | 2006/10/28 - 2006/11/3 | B, H |

| AGENCY | SHIP | AREA | PERIOD | DATA |
|----------|---------------|-------------------------------|-------------------------|---------------------|
| MMO, JMA | SEIFU MARU | Japan Sea, Sea of Okhotsk | 2006/4/27 - 2006/5/31 | B, G, M, D, H, P |
| HMO, JMA | KOFU MARU | North Pacific Ocean | 2006/6/22 - 2006/8/10 | M, D, H, P |
| КМО, ЈМА | KEIFU MARU | North Pacific Ocean | 2006/4/18 - 2006/5/22 | B, G, M, D, H, P |
| КМО, ЈМА | KEIFU MARU | North Pacific Ocean | 2006/6/14 - 2006/8/11 | B, G, M, D, H, P |
| MMO, JMA | SEIFU MARU | Japan Sea | 2006/6/22 - 2006/8/10 | B, G, M, D, H, P |
| HOD, JCG | MEIYO | Philippine Sea | 2006/11/5 - 2006/11/17 | G |
| FF, NU | Nagasaki Maru | East china sea, Japan sea. | 2006/7/19 - 2006/7/28 | |
| FF, NU | Nagasaki Maru | Japan sea | 2006/8/18 - 2006/9/1 | |
| FF, NU | Nagasaki Maru | East China sea, Japan sea. | 2006/10/12 - 2006/10/21 | |
| KMO, JMA | KEIFU MARU | Western North Pacific Ocean | 2006/10/13 - 2006/10/31 | B, G, M, D, H, P |

- Data Type Code
 B: Biology & Fisheries
 D: Physical Oceanography (Current)

 G: Geology & Geophysics
 H: Physical (Salinity & Temperature) & Chemical Oceanography

 M: Meteorology
 P: Contamination

Abbreviations of Agencies Japan

| n | | |
|---|----------------|------------------------------------------------------------------|
| | FF, NU | Faculty of Fisheries, Nagasaki University |
| | GSJ, AIST | Geological Survey of Japan, |
| | | National Institute of Advanced Industrial Science and Technology |
| | HMO, JMA | Hakodate Marine Observatory, Japan Meteorological Agency |
| | HOD, JCG | Hydrographic and Oceanographic Department, Japan Coast Guard |
| | HyARC, NagoyaU | Hydrospheric-Atmospheric Research Center, Nagoya University |
| | KMO, JMA | Kobe Marine Observatory, Japan Meteorological Agency |
| | MMO, JMA | Maizuru Marine Observatory, Japan Meteorological Agency |
| | ORI, UT | Ocean Research Institute, University of Tokyo |
| | PL, HU | Plankton Laboratory, Hokkaido University |
| | YNCMT | Yuge National College of Maritime Technology |
| | CMES, EU | Center for Marine Environmental Studies, Ehime University |
| | OPMSHS | Oita Prefectural Marine Science High school |
| | MFHS | Aichi Prefectual Miya Fishery High School |
| | ADE | Aichi Prefecture (Department of the Environment) |
| | | |

| YEAR | SD | STD | CTD | XCTD | XBT | DBT | AXBT | BT | GEK | DRIFT | ADCP | Unknown |
|-------|---------|-------|---------|------|---------|--------|--------|---------|--------|-------|-----------|---------|
| 1979 | 7,225 | 47 | 2,706 | 0 | 8,090 | 672 | 0 | 17,226 | 5,247 | 118 | 0 | 12,370 |
| 1980 | 8,165 | 643 | 2,299 | 0 | 11,625 | 2,293 | 0 | 17,083 | 6,215 | 186 | 0 | 12,666 |
| 1981 | 6,857 | 120 | 3,081 | 0 | 9,111 | 2,345 | 1,231 | 16,825 | 5,982 | 215 | 0 | 12,825 |
| 1982 | 7,836 | 214 | 2,967 | 0 | 11,040 | 2,870 | 509 | 15,076 | 6,035 | 52 | 0 | 12,761 |
| 1983 | 7,967 | 368 | 3,965 | 0 | 11,426 | 3,068 | 824 | 13,290 | 6,016 | 109 | 0 | 12,386 |
| 1984 | 6,021 | 3 | 4,670 | 0 | 11,610 | 3,855 | 860 | 15,786 | 7,039 | 68 | 0 | 12,776 |
| 1985 | 5,446 | 463 | 5,773 | 0 | 14,941 | 3,510 | 1,073 | 15,206 | 5,426 | 85 | 3,386 | 12,346 |
| 1986 | 8,536 | 269 | 5,770 | 0 | 16,994 | 2,365 | 1,517 | 11,739 | 5,793 | 29 | 2,994 | 9,822 |
| 1987 | 10,048 | 231 | 7,087 | 0 | 17,799 | 1,700 | 1,272 | 12,907 | 4,971 | 4 | 4,483 | 6,664 |
| 1988 | 10,210 | 29 | 9,853 | 0 | 19,658 | 1,045 | 1,197 | 9,990 | 2,811 | 248 | 13,359 | 5,736 |
| 1989 | 8,849 | 62 | 10,528 | 0 | 18,666 | 475 | 1,323 | 7,796 | 1,626 | 314 | 59,587 | 4,744 |
| 1990 | 8,751 | 360 | 11,852 | 0 | 24,278 | 1,314 | 1,291 | 6,286 | 871 | 311 | 73,460 | 4,554 |
| 1991 | 6,408 | 0 | 15,016 | 0 | 23,190 | 1,405 | 1,509 | 1,825 | 841 | 348 | 50,362 | 3,564 |
| 1992 | 4,487 | 105 | 15,824 | 0 | 25,576 | 18 | 1,199 | 1,146 | 216 | 227 | 91,934 | 3,516 |
| 1993 | 3,684 | 119 | 14,296 | 0 | 38,099 | 1,313 | 1,160 | 1,420 | 152 | 20 | 92,541 | 3,148 |
| 1994 | 1,601 | 128 | 2,050 | 0 | 29,281 | 108 | 0 | 7,763 | 320 | 0 | 24,123 | 0 |
| 1995 | 1,381 | 0 | 1,867 | 0 | 42,318 | 115 | 1,002 | 659 | 97 | 0 | 287,575 | 0 |
| 1996 | 1,323 | 0 | 2,168 | 0 | 32,782 | 208 | 939 | 344 | 61 | 0 | 793,067 | 0 |
| 1997 | 1,259 | 0 | 2,022 | 0 | 10,022 | 242 | 918 | 91 | 73 | 0 | 611,239 | 0 |
| 1998 | 1,166 | 0 | 1,755 | 7 | 11,274 | 178 | 934 | 101 | 146 | 0 | 538,944 | 0 |
| 1999 | 962 | 0 | 1,941 | 40 | 10,132 | 208 | 1,017 | 56 | 0 | 0 | 500,128 | 0 |
| 2000 | 958 | 0 | 1,865 | 48 | 11,237 | 155 | 875 | 72 | 313 | 0 | 240,617 | 0 |
| 2001 | 935 | 0 | 1,897 | 77 | 11,954 | 146 | 1,898 | 7 | 316 | 0 | 143,631 | 0 |
| 2002 | 0 | 0 | 2,427 | 178 | 9,338 | 65 | 1,133 | 33 | 443 | 0 | 77,979 | 0 |
| 2003 | 0 | 0 | 53 | 79 | 8,172 | 0 | 1,016 | 0 | 884 | 0 | 347,347 | 0 |
| 2004 | 0 | 0 | 0 | 127 | 855 | 0 | 0 | 0 | 0 | 0 | 232,039 | 0 |
| 2005 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 120,075 | 3,161 | 133,732 | 556 | 439,493 | 29,673 | 24,697 | 172,727 | 61,894 | 2,334 | 4,188,795 | 129,878 |

Table 2 Number of Archived Data in the WESTPAC Region

Data Items

- SD: Serial station Data
- SD:Serial station DataCTD:Conductivity, Temperature, Depth profilerXBT:eXpendable BathyThermographAXBT:Airborne eXpendable BathyThermographGEK:Geomagnetic ElectroKinetographADCP:Acoustic Doppler Current Profiler

- STD: Salinity, Temperature, Depth profiler
- XCTD:eXpendable Conductivity, Temperature, Depth profilerDBT:Digital memorial BathyThermograph
- BT: BathyThermograph DRIFT: ship DRIFT

2.1.2. NEAR-GOOS RDMDB

The NEAR-GOOS (North-East Asia Regional – Global Ocean Observing System) has been implemented as regional GOOS by Russia, China, Korea and Japan. The NEAR-GOOS RDMDB (Regional Delayed Mode Data Base) undertakes the final management of the oceanographic and marine meteorological data of the NEAR-GOOS.

The JODC has managed and operated the RDMDB based on the Recommendation of the 1st NEAR-GOOS Coordinating Committee held in 1996. The RDMDB started to operate as a DMDB in October 1996 and was given the status of the RDMDB by the Recommendation of the 3rd Coordinating Committee in August 1998, and at the same time the registration application procedure was abolished to activate its use. In addition, the provision of data to the anonymous users using guest account became possible based on the approval of the 7th NEAR-GOOS Coordinating Committee in October 2002. Incidentally, the user name of guest account is *guest@onetime*.

In the current system, each country's NRTDB (National Real Time Data Base) is supposed to collect data and send them to its own country's NDMDB (National Delayed Mode Data Base) and the RRTDB (Regional Real Time Data Base) operated by the Japan Meteorological Agency. The NDMDB independently collects the delayed mode data other than the data received from the NRTDB. The RDMDB receives the data collected by each country's NRTDB via the RRTDB and collects the delayed mode data for the users with monthly update.

At first, the data to be registered in the DMDB were only 6 items, which were collected by the RTDB via the GTS. With the items added every year, the data to be registered in the RDMDB today are up to 40 items. Below is the main part of the data items:

- Oceanographic data obtained by the Meteorological Agency via the GTS (BATHY, BUOY, SHIP, TESAC, TRACKOB)
- Data converted into unified format by RRTDB
 - (Water Temperature, Salinity, Wind)
- Average water temperature data developed by the Meteorological Agency (Serial Station, Sea Surface)
- Tide data with 30-second interval by the Japan Coast Guard
- Water temperature data provided by the Russia Far Eastern Regional Hydrometeorological Research Institute
- Water temperature data provided by the Japan Fisheries Information Service Center (JAFIC)
- Water temperature data provided by the Ocean Research Institute of the University of Tokyo
- XBT observation data provided by the Tohoku University
- Wave observation data provided by the Port and Airport Research Institute
- Quality controlled data by the Canada Marine Environmental Data Service (MEDS) (Water Temperature, Salinity)

The data registered in the RDMDB can be obtained through the Internet. The RDMDB data provision system displays a list of data by item and by period so that data can easily be obtained only by selecting the item on the screen. The URL of the RDMDB data provision system is given below.

http://near-goos1.jodc.go.jp/index.html

Archived data type and volume of NEAR-GOOS RDMDB is shown in Table 3.

| TYPE OF DATA | DESCRIPTION OF DATA | PERIOD | VOLUME (MB) |
|---------------------|------------------------------------------------------------------------------|---------------------|----------------|
| BATHY | Regional Datasets of BATHY Report | Jun,1996 - | 14.4 |
| BATHY_G | Global Datasets of BATHY Report | Apr,2000 - | 79.3 |
| BUOY | Regional Datasets of BUOY Report | Jun,1996 - | 340.1 |
| BUOY_G | Global Datasets of BUOY Report | Apr,2000 - | 4,783.4 |
| SHIP | Regional Datasets of SHIP Report | Jun,1996 - | 183.2 |
| SHIP_G | Global Datasets of SHIP Report | Apr,2000 - | 2,311.3 |
| TESAC | Regional Datasets of TESAC Report | Sep,1998 - | 44.5 |
| TESAC_G | Global Datasets of TESAC Report | Jan,1996 - | 479.7 |
| TRACKOB | Regional Datasets of TRACKOB Report | Jun,1996 - | 1.0 |
| TRACKOB_G | Global Datasets of TRACKOB Report | Apr,2000 - | 36.0 |
| SUBST | Subsurface Temperature Decode Result | Jun,1997 - | 784.4 |
| SUBST_ERROR | Subsurface Temperature Decode Error Report | Jun,1997 - | 5.5 |
| TS | Temperature and Salinity Decode Result | Jul,2001 - | 810.7 |
| GLBTS | Global Temperature and Salinity Decode Result | Aug,2001 - | 10,616.4 |
| WIND | Wind Data Decode Result | Jan,1998 - | 143.5 |
| WIND_ERROR | Wind Data Decode Error Report | Jan,1998 - | 1.4 |
| WIND2 | Wind Data (Format Ver.2.0) | Jul,2001 - | 114.0 |
| GLBWIND | Global Wind Data Decode Result | Aug,2001 - | 1,820.6 |
| SSTANL | Gridded Daily Sea Surface Temperature Data in the Northwest Pacific | Jun,1996 - May,2000 | 101.0 |
| DAILYSST (JMA) | Daily Sea Surface Temperature Data Analysis | Apr,2000 - | 229.7 |
| WNPSST (JMA) | 10-day Mean Sea Surface Temperature in the Northwest Pacific | Apr,2000 - | 5.7 |
| WNPSSTNORM (JMA) | Normals and Standard deviations of WNPSST | Jan,2000 - Dec,2000 | 1.0 |
| GLBSST (JMA) | Global Monthly Mean Sea Surface Temperature | Apr,2000 - | 5.6 |
| ADJSUBS (JMA) | Monthly Mean Subsurface Temperature in Seas Around Japan (100m,200m,400m) | Mar,2000 - | 19.0 |

Table 3 Data Type and Volume of NEAR-GOOS RDMDB

| TYPE OF DATA | PE OF DATA DESCRIPTION OF DATA | | VOLUME (MB) | |
|----------------------|---------------------------------------------------------------------------------------------------------------------|---------------------|----------------|--|
| PACSUBS (JMA) | Monthly Mean Subsurface Temperature in Pacific (100m,200m,400m) | Mar,2000 - | 31.7 | |
| ASMDAY (JMA) | Daily subsurface temperature around Japan (100m, 200m, 400m) | Nov,2005 - | 68.3 | |
| SSDH (JMA) | Analyzed Sea Surface Dynamic Height in the Pacific | Jan,2003 - | 179.2 | |
| SSHA (JMA) | Analyzed Sea Surface Height Anomalies in the Pacific | Jan,2003 - | 179.2 | |
| COBESST (JMA) | Monthly mean sea surface temperatures for 1 each degree squares over the global ocean | Jan,1996 - | 26.5 | |
| COBESSTNORM (JMA) | Normals and Standard Deviations of COBESST | Jan,2000 - Dec,2000 | 4.8 | |
| SEA_ICE | Sea Ice Concentration in the Northeast Asia marginal Seas | Dec,2003 - | 635.6 | |
| MGDSST | Merged satellite and in-situ data Global Daily Sea Surface Temperature | Apr,2004 - | 2,920.2 | |
| GTSPP | GTSPP Quality Controlled Subsurface Temperature and Salinity Data Provided by MEDS | Jan,2003 - | 271.0 | |
| FERHRI ship | Marine Meteorological Onboard Observation Data by FERHRI, Russia | Sep,1997 - | 4.0 | |
| FERHRI station | Marine Meteorological Observation Data at the Station by FERHRI, Russia | Apr,2002 - | 0.3 | |
| JAFIC | Sea Surface / Subsurface Temperature Data from Japan Fisheries Information Service Center | Jul,1998 - | 54.1 | |
| PALACE | Subsurface Temperature Profile Data Observed by PALACE Float of Ocean Research Institute, University of Tokyo | Aug,1998 - Nov,2000 | 0.1 | |
| TOHOKU Univ. | XBT Data Observed by Tohoku University | Nov,1999 - Sep,2000 | 0.1 | |
| NOWPHAS | Japanese Nationwide Coastal Wave Data by Port and Airport Research Institute | | 79.09 | |
| 30s_TIDEST | 30-sec. Interval Sea Tide Data at Tidal Stations of Japan Coast Guard | Jan,1999 - | 7,395.8 | |
| Total | | | | |

2.2. RNODC for IGOSS

JODC has been acting as RNODC for IGOSS since September 1979 with the USA and Russia.

KODC has regularly submitted the log form of IGOSS BATHY/TESAC, totally 244 sheets of the log sheets were submitted by KODC in 2006. Data Holding Status is shown in Table 4 and Station Plots are shown in Fig. 2-1 and Fig. 2-2.

| YEAR | BATHY | TESAC |
|------|--------|---------|
| 1982 | 22,667 | 710 |
| 1983 | 25,478 | 5,443 |
| 1984 | 22,980 | 7,068 |
| 1985 | 26,079 | 5,784 |
| 1986 | 31,044 | 5,640 |
| 1987 | 40,301 | 6,580 |
| 1988 | 32,345 | 5,074 |
| 1989 | 27,933 | 4,996 |
| 1990 | 30,027 | 4,947 |
| 1991 | 22,731 | 2,137 |
| 1992 | 34,071 | 1,303 |
| 1993 | 35,058 | 2,153 |
| 1994 | 32,721 | 2,619 |
| 1995 | 33,908 | 2,207 |
| 1996 | 34,722 | 2,221 |
| 1997 | 37,993 | 1,427 |
| 1998 | 20,772 | 4,870 |
| 1999 | 19,701 | 9,632 |
| 2000 | 22,069 | 8,240 |
| 2001 | 26,998 | 21,126 |
| 2002 | 26,446 | 24,204 |
| 2003 | 29,192 | 55,212 |
| 2004 | 33,969 | 156,136 |
| 2005 | 33,317 | 248,751 |
| 2006 | 24,175 | 277,466 |

Table 4 Data Holding Status of IGOSS BATHY/TESAC

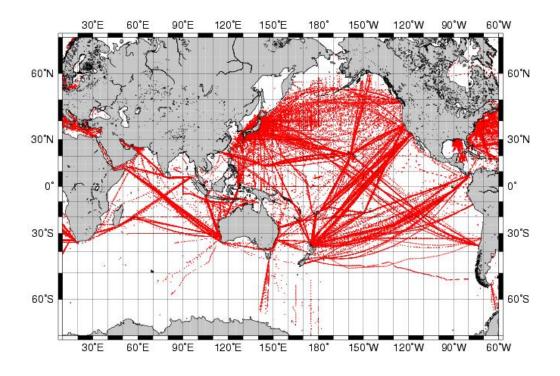


Fig. 2-1 Station Plots for BATHY

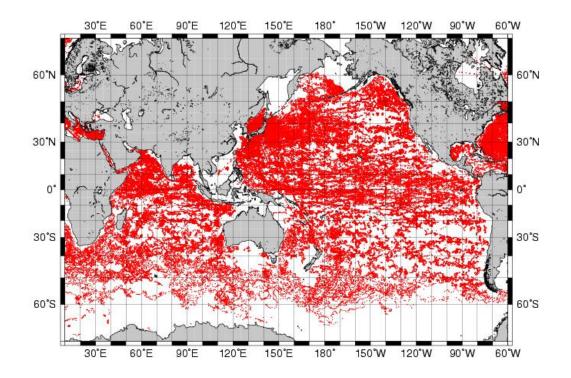


Fig. 2-2 Station Plots for TESAC

2.3. RNODC for MARPOLMON

In response to a recommendation by the United Nations Conference on the Human Environment (Stockholm, 1972), the IOC and WMO agreed to jointly undertake the design, planning, and development of a marine pollution-monitoring program.

As an initial step in this direction, a Pilot Project on Marine Pollution (Petroleum) Monitoring (MAPMOPP) was launched in 1975 within the framework of the Integrated Global Ocean Station System (IGOSS) and was aimed at monitoring petroleum-derived oils.

Bearing in mind the recommendations of the IOC Scientific Committee for the Global Investigation of Pollution in the Marine Environment adopted at its Sixth Session (Paris, 25 September - 1 October 1986) on the regional relevance to marine pollution management activities, RNODC for MARPOLMON have been established in Japan for the WESTPAC region, in the USA for the Caribbean region, and in the Russian Federation for the Atlantic, Mediterranean and Baltic Seas.

The major activities of the JODC are the collection and management of four types of data: oil slicks, tar-ball, beach tar, and hydrocarbon, since 1975. Station Plots are shown in Fig. 3 and Data holding status is shown in Table 5.

With regard to other type of Marine Pollution data, the present holding status of these data in JODC is introduced in Table 6, and the Station Plots of the cadmium, lead and polychlorinated biphenyls data are indicated as Fig. 4-1, Fig. 4-2 and Fig. 4-3, respectively.

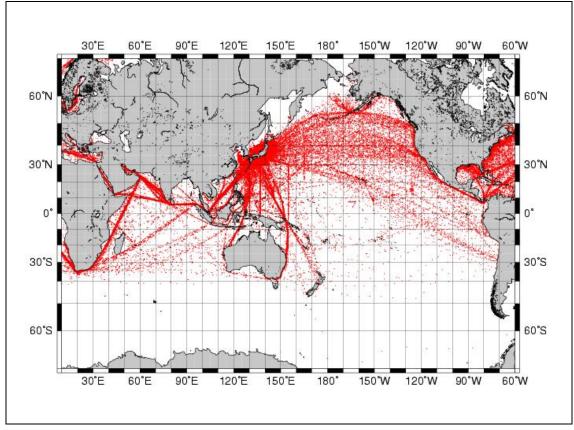


Fig. 3 Station Plots for Oil Slick

| YEAR | BEACH TAR | TAR BALL | HYDRO CARBON | OIL SLICK |
|-------|--------------|-------------|-----------------|--------------|
| 1973 | 0 | 341 | 0 | 0 |
| 1974 | 0 | 229 | 10 | 1,493 |
| 1975 | 404 | 1,059 | 604 | 16,712 |
| 1976 | 799 | 1,096 | 722 | 16,236 |
| 1977 | 740 | 738 | 877 | 19,683 |
| 1978 | 665 | 606 | 482 | 22,580 |
| 1979 | 676 | 384 | 387 | 14,699 |
| 1980 | 581 | 504 | 423 | 5,988 |
| 1981 | 570 | 501 | 362 | 3,948 |
| 1982 | 588 | 459 | 334 | 1,122 |
| 1983 | 560 | 585 | 329 | 583 |
| 1984 | 588 | 417 | 98 | 277 |
| 1985 | 582 | 449 | 239 | 382 |
| 1986 | 624 | 536 | 81 | 865 |
| 1987 | 638 | 598 | 62 | 1,015 |
| 1988 | 653 | 495 | 65 | 1,492 |
| 1989 | 679 | 564 | 68 | 1,948 |
| 1990 | 650 | 527 | 65 | 1,674 |
| 1991 | 647 | 467 | 60 | 1,286 |
| 1992 | 634 | 441 | 61 | 1,215 |
| 1993 | 618 | 420 | 60 | 991 |
| 1994 | 588 | 346 | 52 | 1,221 |
| 1995 | 583 | 324 | 53 | 1,517 |
| 1996 | 0 | 119 | 71 | 1,413 |
| 1997 | 0 | 110 | 86 | 1,783 |
| 1998 | 0 | 90 | 26 | 2,152 |
| 1999 | 10 | 95 | 66 | 1 |
| 2000 | 544 | 231 | 67 | 0 |
| 2001 | 538 | 207 | 40 | 0 |
| 2002 | 474 | 169 | 71 | 0 |
| 2003 | 469 | 164 | 55 | 0 |
| 2004 | 0 | 0 | 0 | 0 |
| 2005 | 0 | 0 | 0 | 0 |
| 2006 | 0 | 0 | 0 | 0 |
| Total | 15,102 | 13,271 | 5,976 | 122,276 |

Table 5 Number of Archived Data for MARPOLMON

Table 6 Number of Data Related Marine Pollution

| DATA TYPE | NUMBER | DATA TYPE | NUMBER |
|---------------|--------|-----------|--------|
| COD | 1,922 | PCB | 1,603 |
| NH4-N | 3,969 | As | 1,127 |
| Chlorophyll-a | 98,845 | Pb | 1,125 |
| Phaeophytin | 19,941 | Hg | 1,866 |
| TOC | 1,126 | Total-Hg | 2,078 |
| НС | 2,054 | Cd | 3,740 |

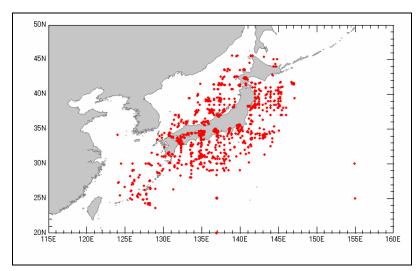


Fig. 4-1 Station Plots for Cd Data in the Northwest Pacific Ocean

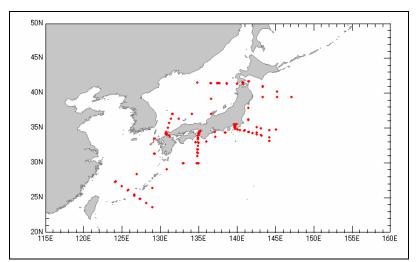


Fig. 4-2 Station Plots for Pb Data in the Northwest Pacific Ocean

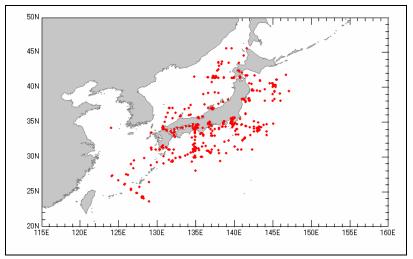


Fig. 4-3 Station Plots for PCB Data in the Northwest Pacific Ocean

2.4. RNODC for ADCP

The JODC has been RNODC for ADCP since 1991.

The major activities of the JODC are the collection and archiving of data. Data holding status is shown in Table 7 and Station Plots are shown in Fig. 5-1 and Fig. 5-2.

| YEAR | NUMBER | YEAR | NUMBER | | |
|------|---------|------|---------|--|--|
| 1985 | 3,545 | 1996 | 805,385 | | |
| 1986 | 2,994 | 1997 | 636,971 | | |
| 1987 | 4,932 | 1998 | 555,127 | | |
| 1988 | 13,553 | 1999 | 520,752 | | |
| 1989 | 66,249 | 2000 | 255,013 | | |
| 1990 | 77,474 | 2001 | 154,541 | | |
| 1991 | 63,034 | 2002 | 82,902 | | |
| 1992 | 110,666 | 2003 | 359,171 | | |
| 1993 | 125,476 | 2004 | 234,322 | | |
| 1994 | 57,007 | 2005 | 0 | | |
| 1995 | 319,734 | 2006 | 0 | | |
| | Total | | | | |

Table 7 Number of Archived Data for ADCP

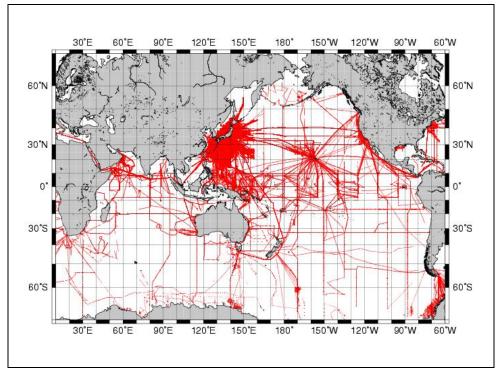


Fig. 5-1 Station Plots for ADCP Data in the Indian Ocean and the Pacific Ocean

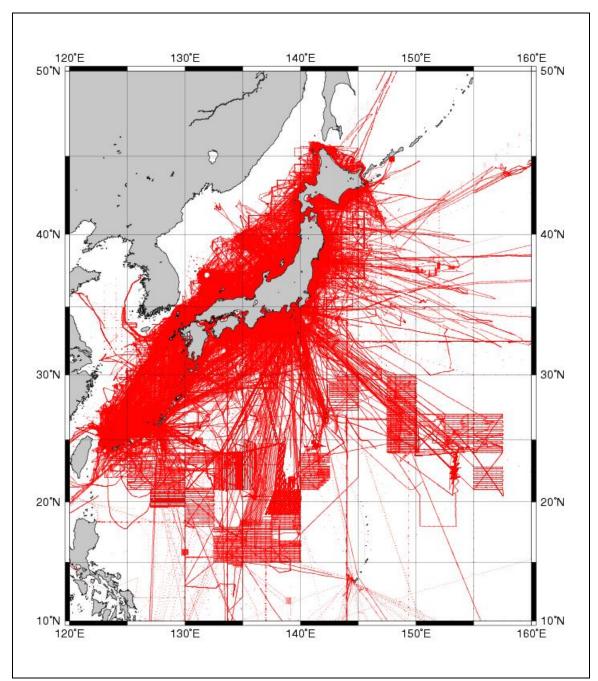


Fig. 5-2 Station Plots for ADCP Data in the Northwest Pacific Ocean

ANNEX I.

List of Participants on Prep-ODINWESTPAC

MEMBER COUNTRIES

| Country | Name | Organization |
|-------------|------------------------|-------------------------------------------------------|
| Australia | Mr. Gregory Reed | Australian Ocean Data Centre Joint Facility |
| China | Mr. Zhang Dongsheng | National Marine Data and Information Service |
| Japan | Mr. Kunikazu Nishizawa | Japan Oceanographic Data Center |
| Korea | Dr. In-Seong Han | National Fisheries Research and Development Institute |
| Philippines | Ms. Angelita Armentia | National Mapping and Resource Information Authority |
| UK | Dr. Lesley Rickards | Chair of IODE (British Oceanographic Data Center) |
| USA | Dr. Sydney Levitus | World Data Center for Oceanography, Silver Spring |
| Vietnam | Dr. Bui Hong Long | National Center for National Science and Technology |
| Vietnam | Dr. Tran Tuan Dung | Vietnamese Academy of Science and Technology |

INTERNATIONAL ORGANIZATIONS

| Organization | Name | |
|--------------|------------------------|---------------------------------------------------------------------------|
| IOC/UNESCO | Mr. Peter Pissierssens | IODE Programme Coordinator |
| IOC/WESTPAC | Dr. Hyung-Tack Huh | Chair of WESTPAC |
| IOC/WESTPAC | Mr. Wenxi Zhu | Acting Head of the Office, IOC/UNESCO Regional Secretariat for WESTPAC |
| NOWPAP/UNEP | Mr. Norio Baba | NOWPAP Regional Coordinating Unit Toyama Office |
| NOWPAP/UNEP | Ms. An Tong | Data and Information Network Regional Activity |
| SEAFDEC | Ms. Siriporn Pangsorn | Southeast Asian Fisheries Development Center |

| Country | Name | Organization |
|----------|---------------------------------|----------------------------------------------------------------------|
| Japan | Prof. Sei-ichi Saitoh | Graduate School of Fisheries Sciences Hokkaido University |
| Japan | Mr. Osamu Yamamoto | Japan Meteorological Agency |
| Japan | Mr. Takashi Yoshida | Japan Meteorological Agency |
| Japan | Ms. Mizuho Hoshimoto | Japan Meteorological Agency |
| Japan | Mr. Masaru Okuno | Hydrographic and Oceanographic Department, JCG |
| Japan | Dr. Junko Shimura | National Institute for Environmental Studies |
| Japan | Dr. Yutaka Michida | Ocean Research Institute, The University of Tokyo |
| Japan | Dr. Akira Tomosada | Marine Information Research Center Japan Hydrographic Association |
| Japan | Dr. Toru Suzuki | Marine Information Research Center Japan Hydrographic Association |
| Japan | Mr. Takeshi Ogawa | Northwest Pacific Region Environmental Cooperation Center |
| Japan | Mr. Genki Terauchi | Northwest Pacific Region Environmental Cooperation Center |
| Malaysia | Dr. Mohd Kushairi Mohd Rajuddin | University Industri Selangor |
| Russia | Dr. Victor A. Akulichev | Far Eastern Branch, Russian Academy of Sciences |
| Russia | Dr. Igor Rostov | Far Eastern Branch, Russian Academy of Sciences |

RESEAECH INSTITUTES IN THE REGION

ANNEX II.

Proposal to initiate a pilot project of Ocean Data and Information Network for the Western Pacific region (ODINWESTPAC)

Preparatory Meeting for the Establishment of the ODINWESTPAC

5-6 December, Japan

1. Objectives

This pilot project aims to:

- (i) develop a number of products that will promote communication and collaboration between WESTPAC member states, and between WESTPAC member states and other partners in the fields of ocean observations, data and information management, product/service delivery,
- (ii) implement relevant capacity building activities, specifically related to ocean data and information management and,
- (iii) prepare a formal proposal including objectives, deliverables, work plan, time table, budget and draft recommendation to establish an Ocean Data and Information Network for the WESTPAC region (ODINWESTPAC), in accordance with the decision of the Sixth Session of the IOC Regional Sub-Commission for the Western Pacific (IOC/WESTPAC-VI, Nha Trang, Vietnam, May 2005), bearing in mind the work assigned to the inter-sessional working group established through Resolution IOC/WESTPAC-VI.2 and the preparatory meeting towards the development of ODINWESTPAC, Tokyo, 5-6 December 2006. The proposal will be submitted to the Seventh Session of the IOC Regional Sub-Commission for the Western Pacific, planned to be held in September 2008, for its approval.

This pilot project proposal will be submitted to the 19th Session of the IODE Committee (Trieste, Italy, 12-16 March 2007) for adoption. If adopted, the pilot project implementation will start subsequently to IODE-XIX and end at WESTPAC-VII (provisionally planned in September 2008)

2. Activities

During the pilot project, it is expected to:

1. Establish management structure

Preparatory meeting recommended that the Secretariat functions will be assumed by the IOC/WESTPAC Secretariat, Bangkok, Thailand.

The meeting further nominated Mr. Kunikazu Nishizawa, Director of JODC as the Regional Coordinator for the Pilot Project

Timing: informally done on 5 Dec. 2006. To be confirmed by IODE-XIX, March 2007 **Cost:** in-kind

2. Organize workshops

The purpose of the meetings will be to finalize the formal proposal for WESTPAC-VII.

A workshop will be held to finalize a proposal for WESTPAC-VII.

| Timing: | March/April 2008 |
|------------------------|----------------------------------|
| Responsibility: | JODC and IOC/WESTPAC Secretariat |
| Cost: | US\$30-40K |

3. Establish an ODINWESTPAC pilot project web site and mailing list(s)

| Timing: | starting in April 2007, maintenance continued until the end of project |
|------------------------|------------------------------------------------------------------------|
| Responsibility: | JODC and IOC/IODE Secretariat |
| Cost: | in-kind |

4. Start preparations for national and regional metadatabases documenting data holdings available in the region

GeoNetwork is recommended if no tool is currently used. Otherwise current tool can be used but need to investigate if structure is ISO-19115 compliant¹.

| Timing: | starting in April 2007 until the end of project |
|------------------------|-------------------------------------------------|
| Responsibility: | member states |
| Cost: | in-kind by member states |

5. Collect cruise summary reports

| Timing: | starting in April 2007 until the end of project |
|------------------------|-------------------------------------------------|
| Responsibility: | member states |
| Cost: | in-kind |

6. Continue the rescue and archival of historical oceanographic data as a follow-up to the GODAR-WESTPAC project

| Timing: | starting in April 2007 until the end of project |
|------------------------|-------------------------------------------------|
| Responsibility: | member states |
| Cost: | in-kind |

7. Prepare a directory of research institutions and experts in the region

It is recommended to use the IODE OceanExpert system as a tool.²

| Timing: | starting in April 2007 until the end of project |
|------------------------|-------------------------------------------------|
| Responsibility: | input by member states; coordination by JODC |
| Cost: | in-kind by member states |

8. Prepare a directory of ocean and coastal observation, research and management projects and programmes implemented in the region (not limited to IOC activities)

European Directory of Marine Environmental Research Projects (EDMERP) will be good example.

Timing:starting in April 2007 until the end of projectResponsibility:JODCCost:in kind

¹ This activity should be coordinated with similar initiatives of other ODINs, projects or organizations (eg PICES TCODE Metadata Federation project)

² This activity should be coordinated with similar initiatives of other ODINs, projects or organizations (eg NOWPAP DINRAC: DINRAC can provide list of organizations and experts in the NOWPAP region)

9. Prepare a regional e-repository of scientific publications published by WESTPAC experts³;

| Timing: | starting in April 2007 until the end of project |
|------------------------|-----------------------------------------------------|
| Responsibility: | IODE project office for hosting; input by countries |
| Cost: | in kind |

10. Prepare a list of potential partners (international organizations, regional organizations, donors, IOC programmes, other projects/programmes active in the region)

| Timing: | April 2007 – May 2007 |
|------------------------|--------------------------------------|
| Responsibility: | JODC to host; input by member states |
| Cost: | in kind |

11. Assess capacity building requirements in the region

| Timing: | April 2007 – July 2007 |
|------------------------|----------------------------------|
| Responsibility: | JODC and IOC/WESTPAC Secretariat |
| Cost: | in kind |

12. Collect and share information on capacity building activities implemented in the region (training courses, seminars and workshops)

The collected information will be published and updated on the webpage.

| Timing: | starting in April 2007 until the end of project |
|------------------------|-------------------------------------------------|
| Responsibility: | JODC and IOC/WESTPAC Secretariat |
| Cost: | in-kind |

13. Disseminate relevant data and information management tools and manuals.

| Timing: | starting in April 2007 until the end of project |
|------------------------|-------------------------------------------------|
| Responsibility: | JODC and IOC/WESTPAC |
| Cost: | in-kind |

14. Implement training courses and workshops as required

-

The following training courses are planned at present. Other training courses may be considered depending on fund availability and assessment of needs.

(i) NEAR-GOOS – NOWPAP Joint Training Course on Remote Sensing Data Analysis, Japan

| Timing: | Summer in 2007 |
|------------------------|-----------------------------------------------------------------|
| Responsibility: | JODC, NOWPAP CEARAC and NEAR-GOOS |
| Cost: | US\$35K (UNESCO-Japan Funds-in-Trust: US\$20K, NOWPAP: US\$15K) |

(ii) Training Course on Basic Data Management and Information Management IODE Project office, Belgium

| Timing: | 2007 |
|------------------------|---------------------------------------------|
| Responsibility: | IODE Project Office and WESTPAC Secretariat |
| Cost: | US\$40K (IODE Project Office Donor) |

15. Prepare a proposal for the ODINWESTPAC project to be submitted to WESTPAC VII.

The proposal will be developed by correspondence during the pilot project considering the results of activities above and finalized at the second workshop.

| Timing: | by WESTPAC VII |
|------------------------|----------------------------------------------------|
| Responsibility: | Project Co-coordinator and IOC/WESTPAC Secretariat |
| Cost: | in-kind |

³ Need to get guidance from marine librarians in WESTPAC region if they wish this to be included

3. Deliverables

The following are expected to be delivered by the 7th Session of IOC/WESTPAC, tentatively in September 2008:

- 1. ODINWESTPAC pilot project web site and mailing list(s);
- 2. National and regional metadatabases;
- 3. Updated WESTPAC cruise summary report database;
- 4. Directory of research institutions and experts in the region;
- 5. Directory of ocean and coastal observation, research and management projects and programmes implemented in the region;
- 6. Regional e-repository of scientific publications published by WESTPAC experts;
- 7. List of potential partners (international organizations, regional organizations, donors, IOC programmes, other projects/programmes active in the region);
- 8. Assessment report on the capacity building requirements in the region;
- 9. Several training courses and workshops;
- 10. Proposal for the ODINWESTPAC project to WESTPAC VII.

| No. | Action/activity | Timing | Responsibility | Estimated cost |
|-----|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------|-----------------------------|
| 1 | The pilot project approved at IODE-XIX | March 2007 | JODCs Director as the Project Coordinator and WESTPAC Secretariat | In-kind |
| 2 | Announcement to start the pilot project | April 2007 | WESTPAC Sec. and IODE HQ | No cost |
| 3 | Establish web site and mailing list of ODINWESTPAC-PP | April 2007 | JODC and IOC/IODE Secretariat | In-kind |
| 4 | Start the preparation of national and regional metadatabases documenting data holdings available in the region | April 2007 | member states | In-kind by member states |
| 5 | Collect cruise summary report | April 2007 until the end of project | member states | In-kind |

4. Timetable and budget for the pilot project

| No. | Action/activity | Timing | Responsibility | Estimated cost |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|
| 6 | Continue the rescue and archival of historical oceanographic data as a follow-up to the GODAR-WESTPAC project | April 2007 until the end of project | member states | In-kind |
| 7 | Prepare a directory of research institutions and experts in the region | April 2007 – end of 2007 | Input by member states; Coordination by JODC | In-kind by member states |
| 8 | Prepare a directory of ocean and coastal observation, research and management projects and programmes implemented in the region | April 2007 – end of 2007 | JODC | In-kind |
| 9 | Prepare a regional e-repository of scientific publications published by WESTPAC experts | April 2007 – end 2007 | IODE Project office | In-kind |
| 10 | Prepare a list of potential partners | April 2007 – May 2007 | Input by member states; Coordination by JODC | In-kind |
| 11 | Assess capacity building requirements in the region | April 2007 – July 2007 | WESTPAC Sec. and JODC | In-kind |
| 12 | Collect and share information on capacity building activities implemented in the region | April 2007 until the end of project | WESTPAC Sec. and JODC | In kind |
| 13 | Disseminate relevant data and information management tools and manuals | April 2007 until the end of project | JODC | In kind |
| 14 | Implement training courses and workshops as required | | | |
| 14 (i) | Training Course on basic data management and information, IODE Project office, Belgium | 2007 | IODEProjectOfficeandWESTPAC Sec. | USD 30,000 (TBI) IODE Project office, Donor |
| 14 (ii) | NEAR-GOOS – NOWPAP joint training course on remote sensing data analysis | Summer 2007 | NOWPAP, JODC and WESTPAC Sec. | USD 35,000 NOWPAP 15k JFiT 20k (planed) |
| 14 (iii) | Organization of a working meeting (tentative) | March/April 2008 | JODC, WESTPAC Sec. and IODE HQ | USD 20,000 (TBI) IODE, JFiT, Donor |
| 15 | Prepare a proposal for the ODINWESTPAC project to be submitted to WESTPAC VII. | by WESTPAC VII | Project Co-ordinator and IOC/WESTPAC Secretariat | In kind |
| | Total | | | USD 85,000 |