

# North East Asian Regional Global Ocean Observing System – **NEAR-GOOS**

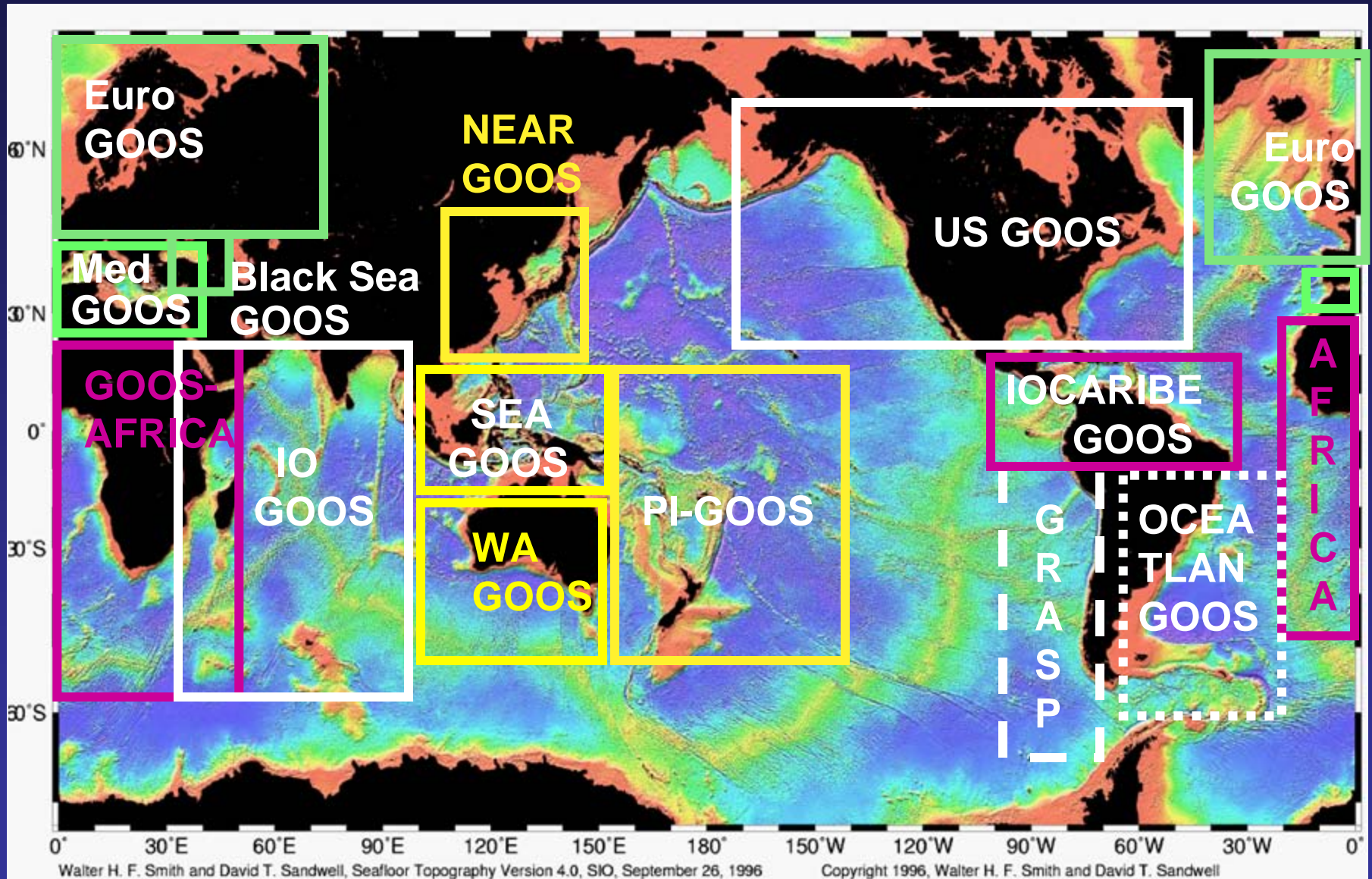
## current status

*Vyacheslav Lobanov*

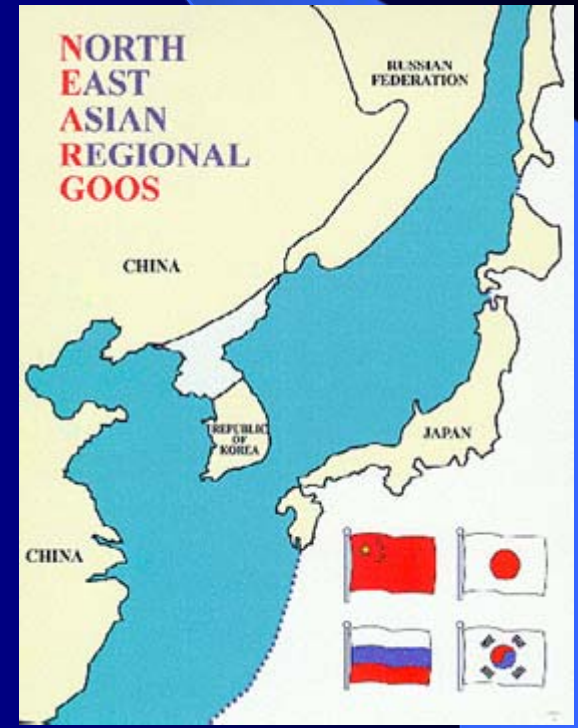
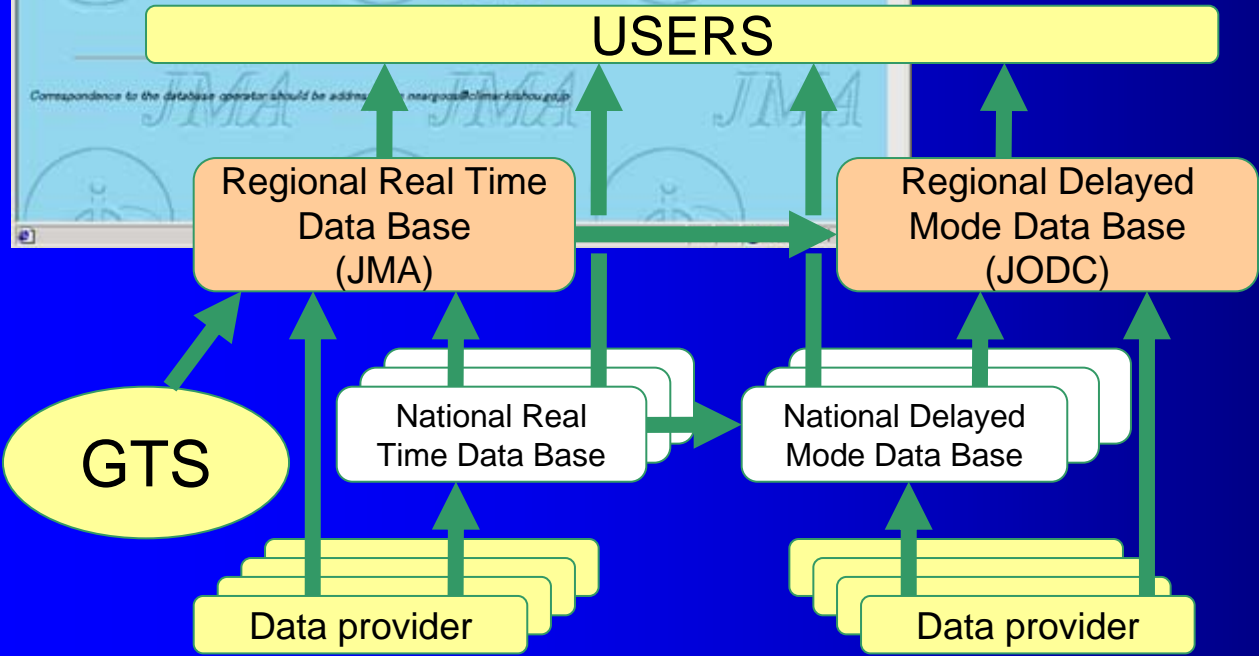
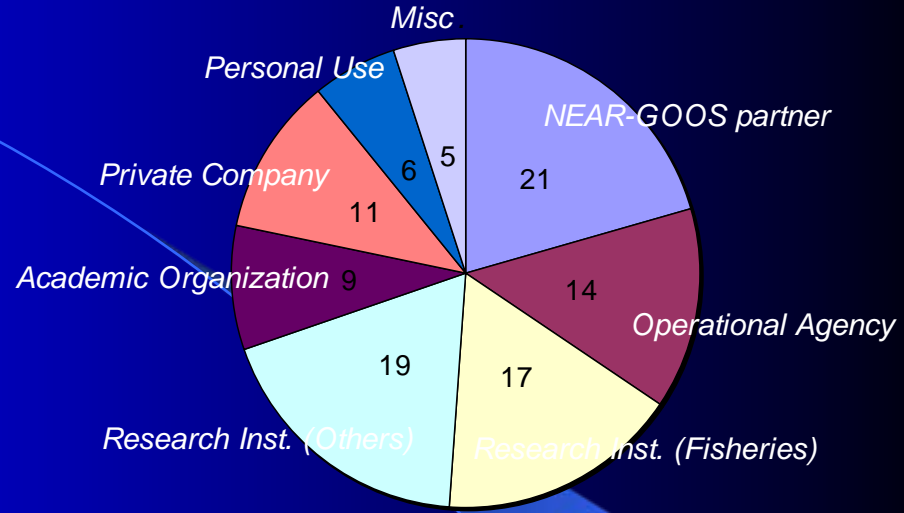
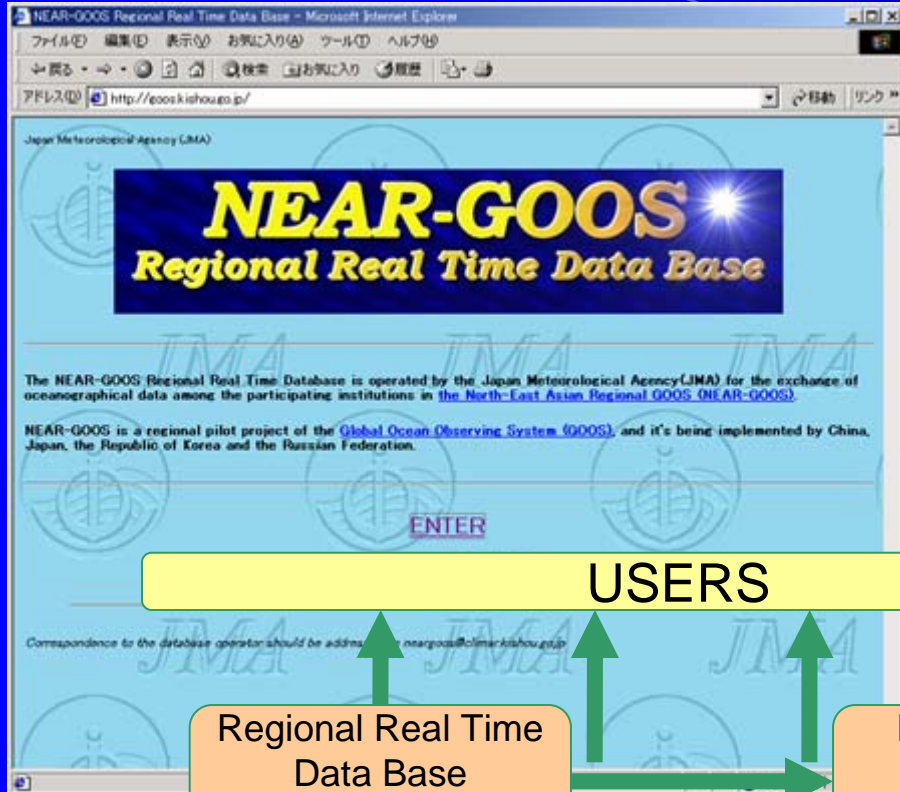
NEAR-GOOS Co-ordinating Committee



# NEAR-GOOS: one of 13 GOOS Regional Alliances



# NEAR-GOOS area, structure, products, users...



Free and open access to Regional data bases



# 11th Session of IOC/WESTPAC Coordinating Committee for the NEAR-GOOS, Bangkok, Thailand, 18-19 January 2007 (V.Lobanov – PICES represent)



- to review the status of NEAR-GOOS and progress since last session (2006);
- to discuss the follow up activities towards the goals of NEAR-GOOS strategy
- identify the role of NEAR-GOOS in global GOOS development and effective ways of interactions with other GRAs and related regional programs and projects

# NEAR-GOOS Status

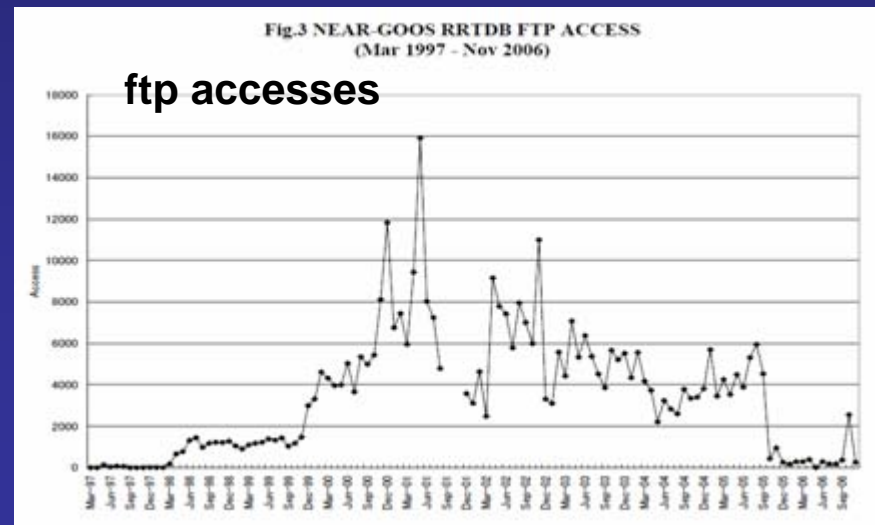
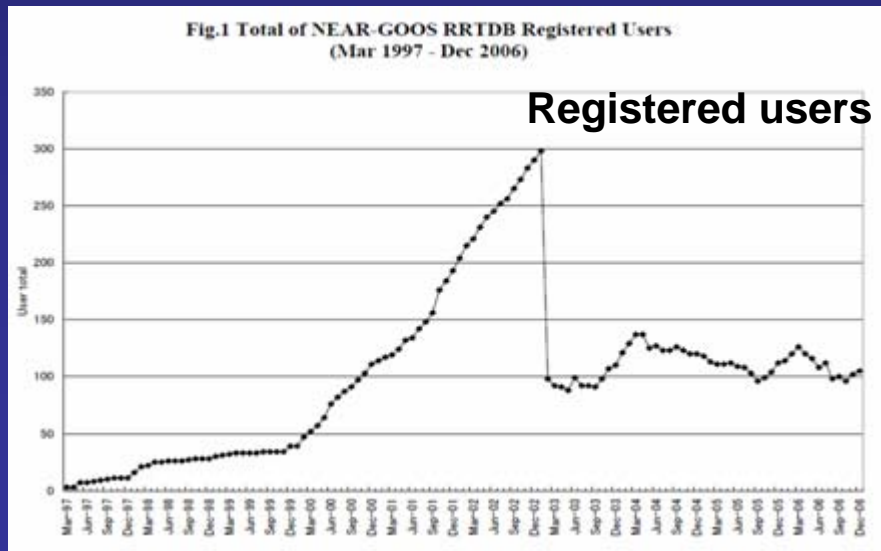
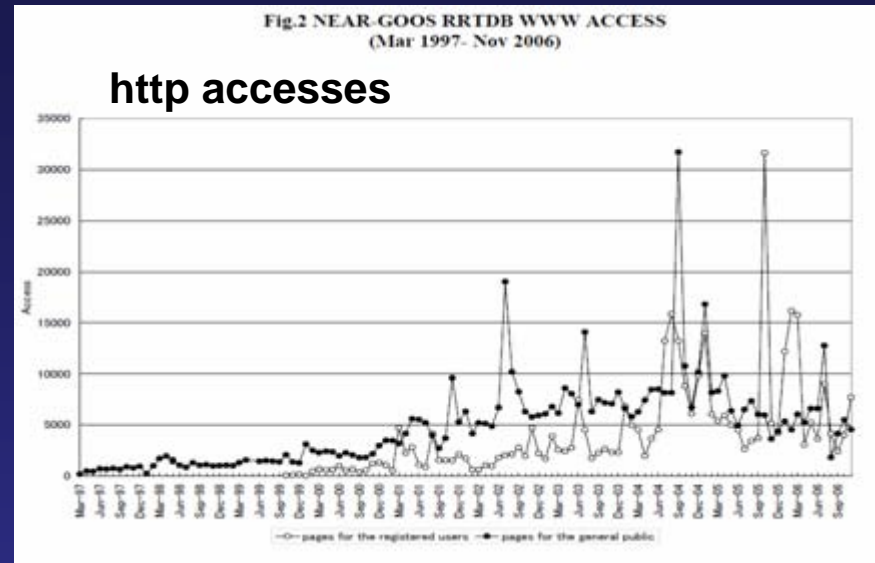
NEAR-GOOS provides through its data-base system various oceanographic data that are useful for PICES community.

| Country | Data base     | Responsible organization | Address   |
|---------|---------------|--------------------------|---|
| Japan   | Regional RTDB | JMA                      | <a href="http://goos.kishou.go.jp">http://goos.kishou.go.jp</a>   |
|         | Regional DMDB | JODC                     | <a href="http://near-goos1.jodc.go.jp">http://near-goos1.jodc.go.jp</a>   |
| China   | National RTDB | NMEFC                    | <a href="http://www.nmefc.gov.cn">http://www.nmefc.gov.cn</a>   |
|         | National DMDB | NMDIS                    |   |
| Korea   | National RTDB | KORDI                    | <a href="http://near-goos.kordi.re.kr">http://near-goos.kordi.re.kr</a>   |
|         | National DMDB | NFRDI                    | <a href="http://kodc2.nfrdi.re.kr:8001/home/eng/near-goos">http://kodc2.nfrdi.re.kr:8001/home/eng/near-goos</a> |
| Russia  | National RTDB | FERHRI                   | <a href="http://rus.ferhri.ru/esimo/Projects/Neargooos">http://rus.ferhri.ru/esimo/Projects/Neargooos</a>       |
|         | National DMDB | POI                      | <a href="http://www.pacificinfo.ru">http://www.pacificinfo.ru</a>   |

# NEAR-GOOS Regional Real-Time Data Base

Registered uses of RRTDB - 105  
FTP accesses - 3,000 to 10,000  
hits/month.

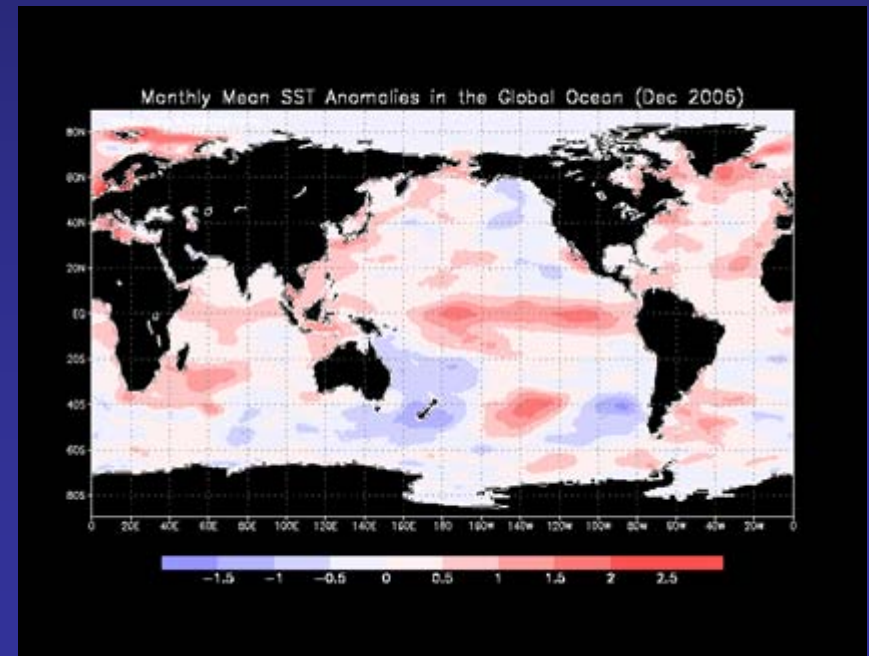
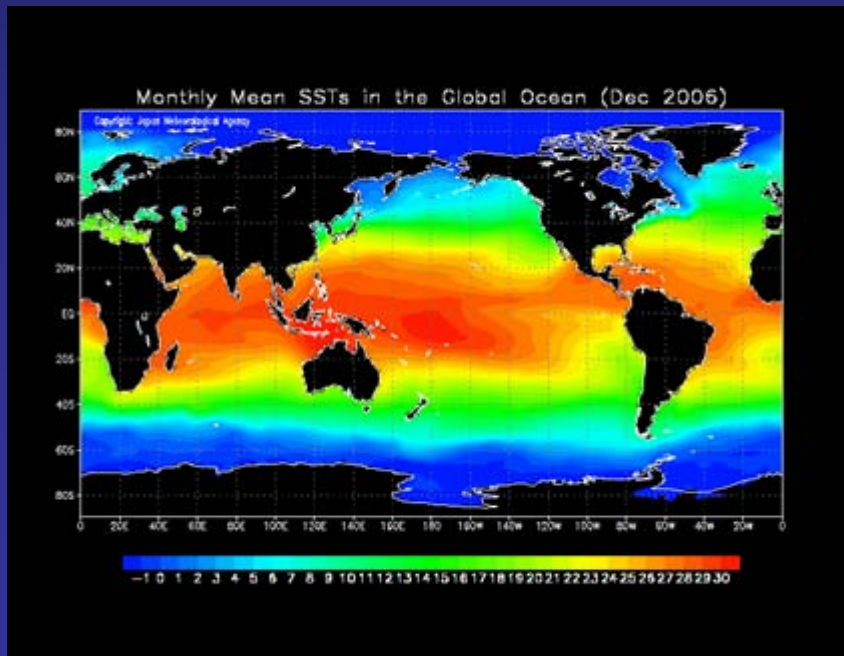
Decadal dynamics (1997-2007)  
stable for last 2-3 years



# New products

## Global Sea Surface Temperature (COBE-SST)

- A new historical SST dataset became available recently (late 2006)
- Monthly mean global SST GPVs from 1891 to the latest month

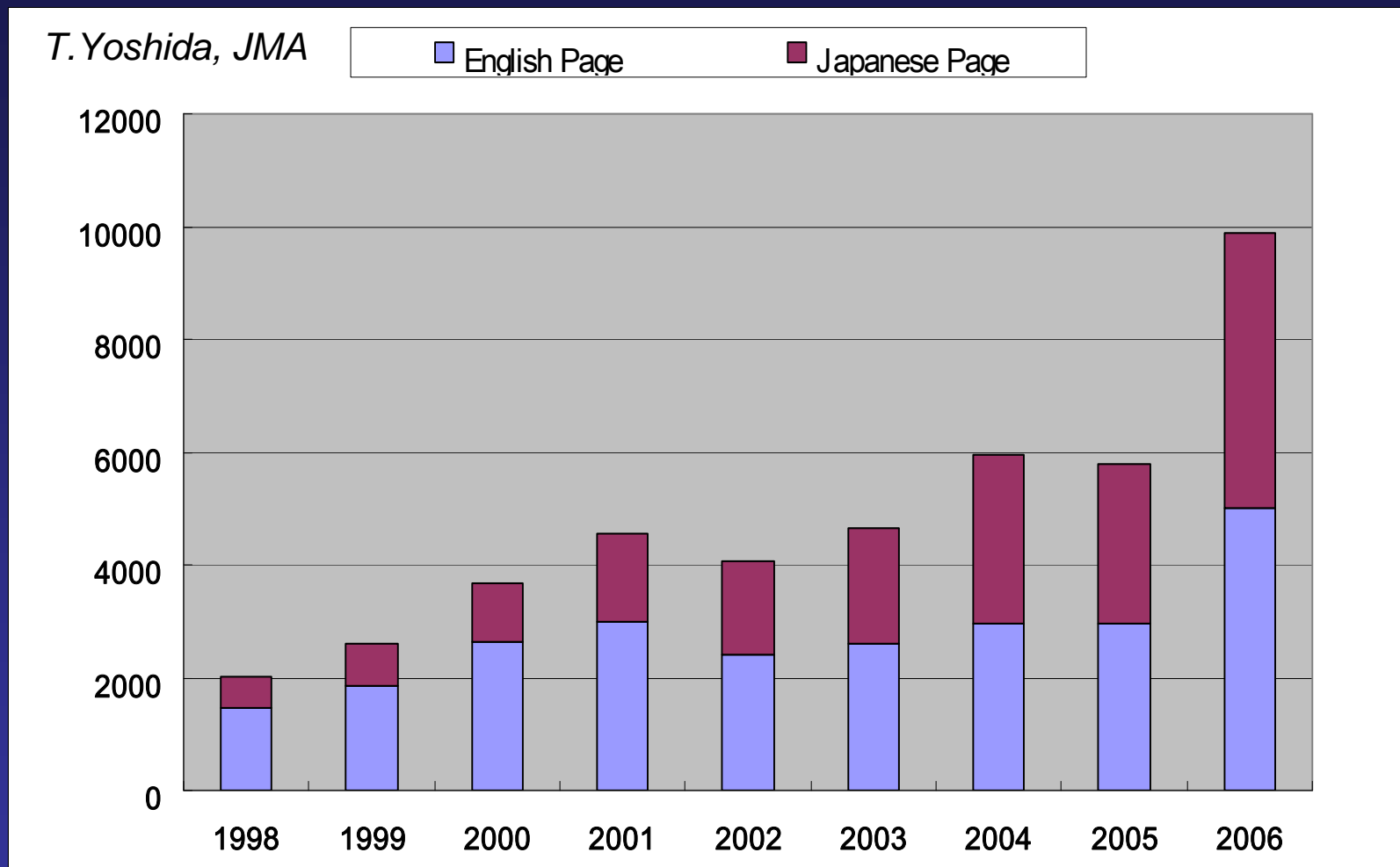


# NEAR-GOOS Regional Delayed Mode Data Base

- **RDMDB processes 40 items at present**
  - (1) 37 items from RRTDB
    - GTS, NRTDB and other organizations, JMA products
    - As new type data, "COBESST" and "COBESSTNORM" was added to RDMDB in July 2006
  - (2) 3 items from other source
    - "30s\_TIDEST", "NOWPHAS" and "Tohoku Univ".
- **The data volume of RDMDB was total 35GB**
  - Data volume has **increased 10GB or more in 12 months.**
  - The following items have increased 1GB or more.
    - GLBTS(3.8GB), 30s\_TIDEST(1.0GB), MGDSST(1.2GB),
    - Buoy G(1.6GB)



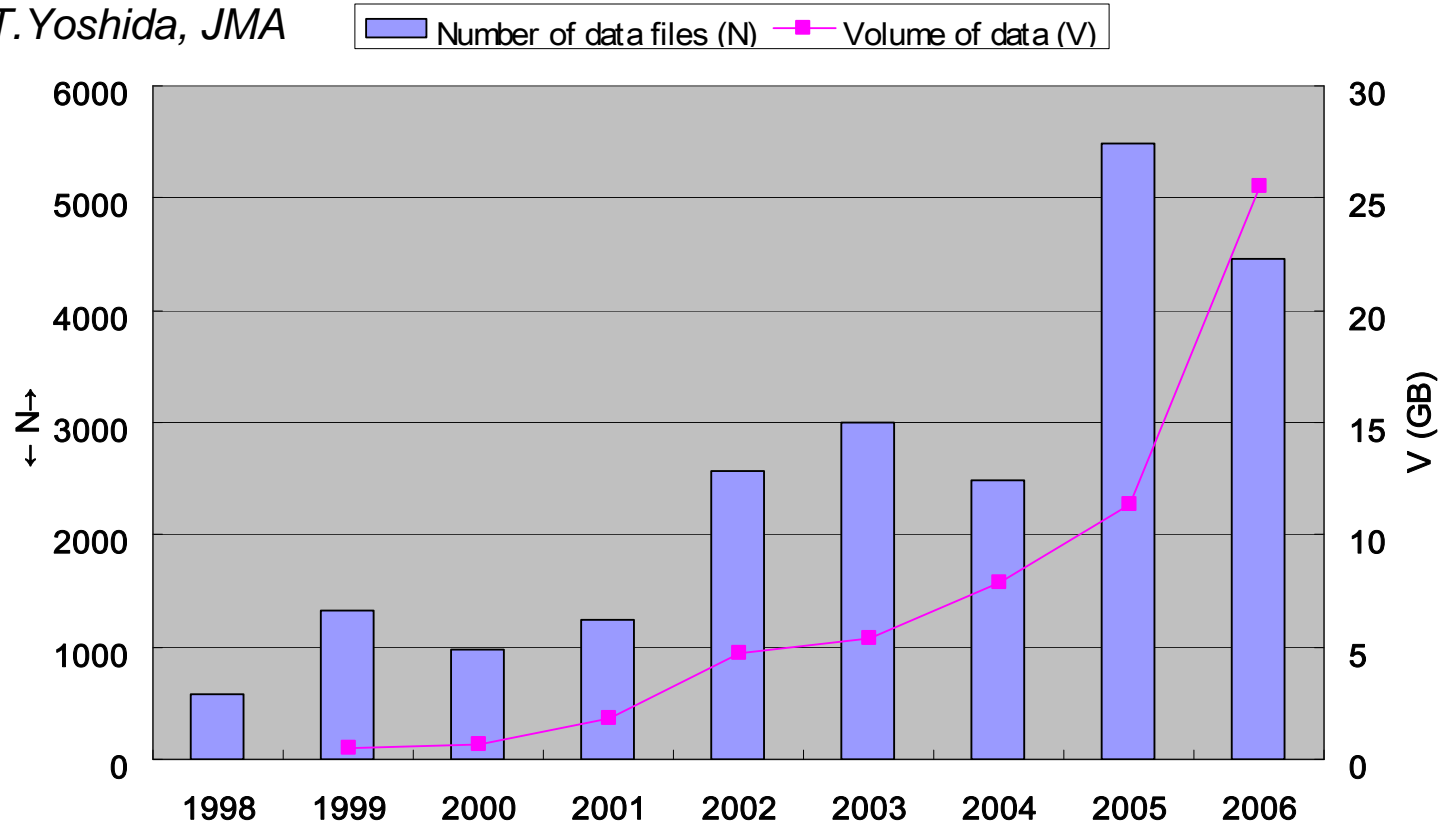
# Annual change of access number to top page of RDMDB



The total numbers which were accessed to the top page in 2006, increased about 4,000 counts against the total number in 2005.

# Annual change of the number of data files which was downloaded from RDMDB, and the data volume which was downloaded from RDMDB

T. Yoshida, JMA



The number of data files that were download from RDMDB in 2006, decreased about one thousand against the number in 2005.

The data volume that was downloaded in 2006 was about 25GB, and increased about 14GB against the data volume that was downloaded in 2005.

# NEAR-GOOS Data Bases Status

Volume of available data at RRTDB and RDMDDB, number of parameters, data providers and users have been steadily increasing. However some problems of easy and fast international data exchange still exist.

Further improvements and modifications in national NEAR-GOOS data bases in China, Korea and Russia were reported.

An increase of amount of data, number of data providers, sources of information and its accessibility were presented for most data holdings, however with different success.

# Development of regional observing system

Extensive development of the observing system involved in NEAR-GOOS was demonstrated in Korea where it consists of growing network of coastal stations, moorings, buoys and open sea platforms. Joint Korean-China activity, development of Yellow Sea Operational Oceanography System (YOOS) will essentially contribute to NEAR-GOOS. In addition to regional data sets the most of the data bases are linked with other international project, such as Argo, GTSP, JCOMM.





# NEAR-GOOS Working Groups Activity

2 NEAR-GOOS WGs had started their activity in 2006:

- **WG on NEAR-GOOS Data Management:**

revise practice of data management – more focus availability of chemical and biological data and integrated SST databases. Will prepare an inventory of existing in situ Chl-a and sediment material data

- **WG on New Generation SST:**

implementation of satellite based technology of SST retrieval developed under the WESTPAC ORSP/NGSST project (H.Kawamura) to meet practical users requirements and develop satellite coastal SST monitoring

# Further development of NEAR-GOOS

- inclusion of chemical and ecological parameters into NEAR-GOOS data bases (requests of PICES, NOWPAP and other organizations). *It would take some time to make necessary arrangements. However some products as graphical information, metadata, etc. useful for marine chemists and biologists in addition to physical parameters has been getting available in the web pages of NEAR-GOOS partner-organization. In some cases it is done jointly with PICES under TCODE supported projects.*

- development of satellite remote sensing and promotion of satellite data (not only SST but also ocean color). *To support initiative of NOWPAP to organize the Remote Sensing*

*Training Course on Data Analysis for Oceanography in 2007.*

# 1<sup>st</sup> NEAR-GOOS - NOWPAP Joint Training Course on Remote Sensing Data Analysis

3-7 Sept. 2007, Nagasaki Univ., Japan



- 23 trainees (post-grad. students, researchers) from 8 countries;
- lectures and hands-on practical sessions on the analysis of satellite data;
- introduced practical satellite remote sensing applications, especially related to eutrophication, red tides and oil spills.

# New IOC/WESTPAC web site – more on NEAR-GOOS – [westpac.unescobkk.org](http://westpac.unescobkk.org)

Welcome to UNESCO-IOC/WESTPAC Website – Microsoft Internet Explorer

http://westpac.unescobkk.org/index.html

## IOC SUB-COMMISSION FOR WESTERN PACIFIC (WESTPAC)

HOME ABOUT US FEEDBACK CONTACT US SITE MAP LINKS

### Programme

- Ocean Ecosystem and Biodiversity
- WESTPAC-HAB
- Atmospheric Inputs Study
- Biological Effects Monitoring Studies of Manne Pollution
- PaleoCurrents
- Ocean Dynamics and Climate
- IBCWP
- GODAR-WESTPAC
- IOOE
- NEAR-GOOS
- SEAGOOS
- Gulf of Thailand Cooperative Study
- Ocean Remote Sensing

### What's New

On 22 November 2006, the First Meeting of the Working Group on NEAR-GOOS New Generation Sea Surface Temperature (NOSST) was held at the Graduate School of Science of the Tohoku University.

### Upcoming Events

11th Session of IOC/WESTPAC Co-ordinating Committee for the North-East Asian Regional - Global Ocean Observing System (NEAR-GOOS CC-XI)

IOC/WESTPAC News 21 November 2006 – Lotus Notes

IOC Regional Secretariat for WESTPAC (westpac@unescobkk.org)

2006/11/22 13:39

## WESTPAC informatio

### News and Upcoming Events

**IOC/WESTPAC will sign MoU with YSLME**  
With the common goal of ecosystem-based, environmentally-sustainable use of the Yellow Sea, IOC/WESTPAC is urged to establish partnership with UNDP/IOC Large Marine Ecosystem Project (YSLME) at the 3rd session of Project Steering Committee of YSLME in November 2006, Korea. [\(more details\)](#)

**Partnership expected to be built with FEMSEA**  
IOC Regional Secretariat for WESTPAC will sign a Partnership Letter of Cooperation with FEMSEA Regional Programme office at the Inaugural Meeting of the Council during the East Asian Seas Congress 2006, 12-16 December 2006, Hainan, China. [\(more details\)](#)

**SEAGOOS is wheeling forward**  
Dr. Sontak Klakatsong, the SEAGOOS Coordinator, attended the 3<sup>rd</sup> GOOS Regional Alliance Forum, 14-17 November 2006, Cape Town, South Africa. It will not only present the history of SEAGOOS, the activities made and challenge being faced towards the establishment of SEAGOOS in the past years, but also to benefit from the achievement, lessons learned, and set up possible links with other ORAs and programs. [\(more details\)](#)

**Third International Workshop for GODAR-WESTPAC to be held from 4-6 December 2006**  
Japan Oceanographic Data Center (JODC) will host the Third International Workshop for "Global Oceanographic Data Archaeology and Rescue Project in the V Region (GODAR-WESTPAC)" from 4-6 December in Tokyo, Japan. Incidentally, a preparatory meeting towards the establishment of Ocean Data and Information WESTPAC region will take place in conjunction with the workshop. [\(more details\)](#)

**Eleventh Session of NEAR-GOOS Coordinating Committee will take place in Bangkok, 18-19 January 2007**  
With kind invitation of the Department of Marine and Coastal Resources (DMCR) of the Ministry of Natural Resources and Environment (MNRE), Thailand, the 11<sup>th</sup> IOC/WESTPAC Coordinating Committee for the North-East Asian Regional Global Ocean Observing System (NEAR-GOOS-CC-XI) will take place from 18-19 Bangkok, Thailand. [\(more details\)](#)

**First Leadership Development Workshop for WESTPAC under preparation**  
The First Leadership Development workshop in Western Pacific Region will take place in Bangkok, Thailand, tentatively in March 2007. The workshop, to be attended by Directors/Heads of marine science-related institutes/academic faculties in the region, aims at identifying the most important regional capacity-development needs in sustainable management of oceans and protection of coastal zones. [\(more details\)](#)

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# Conclusion (1)

1. NEAR-GOOS provides various oceanographic data that are useful for PICES community. Some problems of easy and fast international data exchange still exist. However the volume of available data, number of parameters, data providers and users have been steadily increasing.
2. Over its more than ten years history NEAR-GOOS developed technology of oceanographic data management, exchange and services, communication with data providers and users. This experience would be useful for developing of new ocean observing systems in the eastern PICES area.

# Conclusion (2)

3. On other hand, an experience of developing observing systems in the American coast of Pacific on the base of comprehensive modern instruments would help NEAR-GOOS in improving its observational network.
4. Further development of NEAR-GOOS would require to increase public awareness to involve more partners/data providers as organizations and individual scientists. It may be expected that with increasing of NEAR-GOOS consolidation and sharing resources with PICES this would be improved.

**Attention!!**

The 7th IOC/WESTPAC International Scientific  
Symposium

"Natural Hazards and Changing Marine  
Environment in the Western Pacific"



**21-25 May 2008, Sabah,  
Malaysia**

No registration fee,  
Possible travel support,  
Abstract by 21 Jan. 2008

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