Activity of CEARAC about Harmful Algal Blooms in the NOWPAP Region

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NOWPAP (Northwest Pacific Action Plane)
CEARAC (Special Monitoring and Coastal Environmental Assessment Regional Activity Centre)
Regional Seas Programme

- 13 regional programmes established under UNEP
- The objective is to act for management and development of ocean and coastal environment based assessment of quality of ocean environment and evaluation result of cause of environmental deterioration.
Northwest Pacific Action Plan (NOWPAP)

Member country
China, Japan, Korea and Russia

Geographical coverage
Longitude 121°E to 143°E
Latitude 52°N to 33°N
NOWPAP Structure

**Intergovernmental Meeting (IGM)**
Decision-making body of NOWPAP

**Regional Coordinating Unit (RCU)**
responsible for implementation of NOWPAP activities

**Regional activity Centres (RACs)**
responsible for implementation of NOWPAP activities

NPEC (Northwest Pacific Region Environmental Cooperation Center) was designated as CEARAC based on the Resolution at the 4th IGM on NOWPAP.
CEARAC activities of WG3 & WG4

**NOWPAP WG3**
Monitoring and assessment of Harmful Algal Blooms (HAB)

**NOWPAP WG4**
Development of new monitoring tools using remote sensing.
The objective of WG3 is to work on coastal environmental assessment using HABs as a indicator.

List of WG3 experts

Mr. Xiaofeng Kang
Prof. Mingjiang ZHOU
Dr. Yasuwo FUKUYO
Dr. Osamu MATSUDA

Dr. Sam-Geun LEE
Dr. Hak-Gyoon KIM
Dr. Vladimir SHULKIN
Dr. Tatiana ORLOVA
1. Compilation of reports on HAB for the NOWPAP Region.

- **National Reports on HAB**
  To give basis for creating common understanding by reporting present situation of HAB in each country.

- **Integrated Report on HAB**
  To provide and share information on the status of HAB in the NOWPAP Region, and to address issues.
2. Establishment of HAB Reference Database

The objective is to establish a focal storage of information and reference materials (paper, reports, data, etc.) which can be used as resources for scientific analyses on HAB.

HAB Reference Database was established in 2005

http://www.cearac-project.org/wg3/hab-ref-db/

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<th>China</th>
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The objective and role of this Database

This Database has been established to provide useful information and reference materials (papers, reports, etc.) for researchers, government officials or public interested in HABs in the NOWPAP region. The Database is expected to enhance better understanding and provide valuable information to the solution of the various HABs problem in the NOWPAP region. The Database can be searched through several methods. Instructions on the search method are given below.

**[Country]**

A country that the subject of the publication is made.

- Example 1: A country where a HAB event occurred.
- Example 2: A country where a research on the topic of a publication was conducted.

How to use: Choose an appropriate country, if any, from the pull-down menu.

**[Year]**

Year of publication

How to use: Type the year (e.g. 2000) or duration (e.g. 1990 ~ 2000, 1990 ~, ~ 2000) to search, if any.

**[Type of HAB]**

Red Tide or Toxin-producing Plankton

How to use: Choose Red Tide or Toxin-producing Plankton from the pull-down menu.
3. Establishment of *Cochlodininium* Corresponding Group (CCG)

*Cochlodininium* is one of the concerned species in the NOWPAP region. In recent year, the area of *Coclodinium* red tide occurrence is expanded, and the damage to fisheries are increase in Japan and Korea.

*Cochlodininium* Corresponding Group (CCG) is established, so as to provide information on *Cochlodininium*, and to help policy makers of coastal fisheries.
In CCG activity, WG3 have established the *Cochlodinium* homepage and published *Coclodinium* pamphlet.

http://www.cearac-project.org/wg3/cochlo-entrance/
4. Current activity of WG3

WG3 are getting ready for compilation of booklet of “Countermeasures against HABs”

This booklet aims to share information on countermeasures against HABs among NOWPAP Members, to contribute to establish policies and measures against HABs in stakeholders and related agencies.
Thank you