# **Appendix Contents**

Appendix I	Report on implementation and expenditure of CEARAC activities
	for the 2006-2007 biennium
Appendix II	Draft workplan and budget of CEARAC activities for the 2008-2009
	biennium and recommendation to the 12 <sup>th</sup> NOWPAP IGM 129
Appendix III	Proposal for HAB Case Studies131
Appendix IV	Proposal for development of HAB Integrated Website
Appendix V	Proposal for development of educational materials for utilization
	of remote sensing data for coastal environment conservation137
Appendix VI	Proposal for the second NOWPAP training course on remote
	sensing data analysis139
Appendix VII	Proposal for development of procedures for assessment of
	eutrophication status including evaluation of land based sources
	of nutrients for the NOWPAP Region 143
Appendix VIII	Draft mid- and long-term strategies of CEARAC and goals of
	NOWPAP Working Group 3 and Working Group 4 149
Appendix IX	Draft Guidelines on establishment and disbanding of Working
	Groups 153

Presentation materials were revised in accordance with the adopted meeting reports of the 5<sup>th</sup> CEARAC Focal Points Meeting.

# Report on implementation and expenditure of CEARAC activities for the 2006-2007 biennium

# **NOWPAP CEARAC**

18-19 Sep. 2007

# Outline of CEARAC Activities for the 2006-2007 biennium

- Organization of CEARAC 4<sup>th</sup>FPM and 3<sup>rd</sup>WG3 and WG4 Meetings
- CEARAC Projects

### WG3

- -Booklet of "Countermeasures against HABs"
- -Pamphlet of Cochlodinium

### WG4

- Eutrophication Monitoring Guidelines by RS for the NOWPAP Region
- -RS Training
- -Development of RS information network
- CEARAC Activities on Marine Litter
- . Other Intersessional Activity; RS
- Cooperation and Coordination
- Publication of CEARAC Newsletter

# Main Achievements of the 4th FPM

(8-9 March 2006, Toyama, Japan)

- Reported implementation of CEARAC activities in 2005 and expenditure for the 2004-2005 biennium
- Reported intersessional activities of NOWPAP WG3(HAB) and WG4(RS)
- Approved the detailed workplan and budget of CEARAC for the 2006-2007 biennium
- Adopted the revised TORs for WG3 and WG4
- Discussed the revised TOR of CEARAC FPM and agreed to submit to 11th IGM for approval
- Decided to discuss long-term objectives of CEARAC in WG meetings and the next FPM.



# Main Achievements of the 3rd Meeting of WG3 and WG4 (Toyama, 6-7 July 2006)

- Agreed on publishing Cochlodinium pamphlets in four languages; Chinese, Japanese, Korean and Russian
- Agreed on publishing an Eutrophication Monitoring Guidelines by RS for the NOWPAP Region through refining NPEC Eutrophication Monitoring Guideline by the NOWPAP Members in 2006.
- Changed the title of the booklet to "Countermeasures against HABs", and a new chapter about toxic producing algal blooms was added.
- Agreed on conducting a RS training program on data analysis in 2007.
- Discussed the mid and long term strategies of CEARAC and mid and long term objectives of WG3 and WG4, and confirmed to continue discussing these issues.

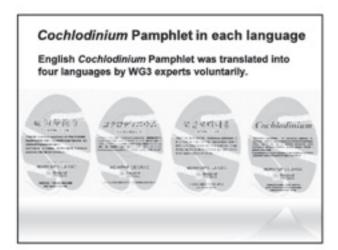


# Activities of WG3

- Booklet of "Countermeasures against HABs"
- · Pamphlet of Cochlodinium

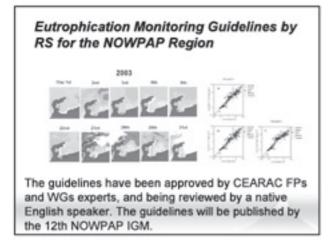
# Booklet of "Countermeasures against HABs" Information on countermeasures against HABs of each country was submitted and harmonized. New being professed by WGJ experts and FPs

After approval by FPs and WG experts, this booklet will be published and circulated to related organizations in book form and a CD format

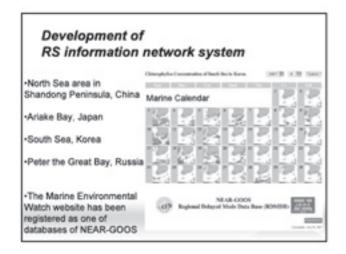


# **Activities of WG4**

- Eutrophication Monitoring Guidelines by RS for the NOWPAP Region
- RS Training
- . Development of RS information network

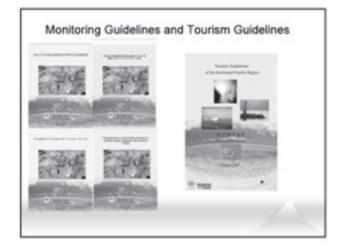


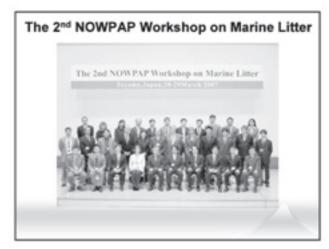


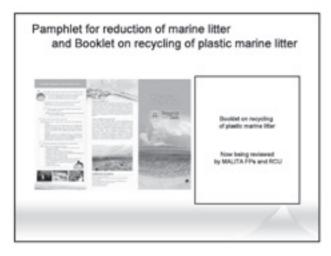


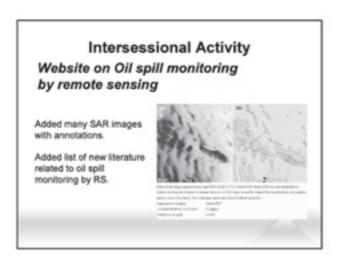
# Activities of MALITA

- Guidelines for Monitoring Marine Litter on the Beaches and Shorelines of the Northwest Pacific Region
- · Tourism Guidelines
- The 2<sup>nd</sup> NOWPAP Workshop on Marine Litter
- Pamphlet for reduction of marine litter
- . Booklet on recycling of plastic marine litter
- Monitoring survey to raise public awareness









# Cooperation and Coordination(1/2)

Participation in NOWPAP IGM, Workshop and other RACs FPM

- the 1st NOWPAP Workshop on Marine Litter and the 1st NOWPAP Regional Meeting on Marine Litter. (Incheon, Korea, 8-9 June, 2006)
- PICES 15th Annual Meeting (Yokohama, Japan, 13-22 October, 2006)
- 4th Korean-Japan Workshop on Ocean Color Remote Sensing (Cheju, Korea, 19-20 December 2006)
- 1st COBSEA Marine Litter Workshop (Jakarta, Indonesia, 8-9 May 2007)
- NOWPAP International Coastal Cleanup (ICC) held in Sakata, Japan (29-30 September 2006) and in Rizhao, China (27-28 June 2007)

# Cooperation and Coordination(2/2)

## Cooperation with other RACs and Organizations

- The 4th International Workshop on Remote Sensing of the Marine Environment in the Northwest Pacific Region
- The State of Marine Environment Report in the NOWPAP Region
- . Assistance to POMRAC for organizing ICARM



### for the 2006-2007 biennium(1/3) Date & Venue Activity Organization of CEARAC 4th FPM Mar.2006: -organizing the meeting -publishing the meeting report Organization of 5th FPM Sep. 2007; Toyama, Japan -organizing the meeting -publishing the meeting report (2,000)Organization of 3<sup>rd</sup> Meeting of 27,679 NOWPAP WG3 and WG4 -organizing the meeting -publishing the meeting report WG3 (HAB) -Making a Booklet of "Countermeasures against HABs" 21,245 4,755 -Publication of Cochlodinium pamphlet in four languages

The use of CEARAC budget

# The use of CEARAC budget for the 2006-2007 biennium(2/3)

Activity	Date & Venue	Expenditure (expected) In US\$
Publication of RS Guidelines -Eutrophication Monitoring Guideline -RS Training	Throughout 2006 and 2007	15,000 (16,000)
CEARAC Activities on Marine Litter -Monitoring Guideline -Tourism Guideline -Pamphlet for the reduction on marine litter -Boeklet on recycling of plastic marine litter	Throughout 2006 and 2007	3,594 (6,000) (3,000) (6,906)

# The use of CEARAC budget for the 2006-2007 biennium (3/3)

Activity	Date & Venue	Expenditure (expected) in US\$
Intersessional work -Website on Oil spill monitoring by remote sensing -TBD	Throughout 2006 and 2007	3,000
Cooperation and Coordination of CEARAC activities -2006 -2007	Throughout 2006 and 2007	4,400 (4,545)
Publication of CEARAC Newsletter -Third issue -Fourth issue	Autumn 2006 and 2007	1,908
TOTAL		169,500

Draft workplan and budget of CEARAC activities for the 2008-2009 biennium and recommendation to the 12th NOWPAP IGM

# **NOWPAP CEARAC**

18-19 Sep. 2007

# Outline of CEARAC Activities for the 2007-2008 biennium

- Organization of CEARAC 6<sup>th</sup> & 7<sup>th</sup> FPM and 4<sup>th</sup> WG3 and WG4 Meetings
- CEARAC Projects
- · Cooperation and Coordination
- Publication of CEARAC Newsletter

# Organization of CEARAC 6th & 7th FPM and 4th WG3 and WG4 Meetings

- CEARAC 6th FPM, Mar. 2008
- 4th WG3 and WG4 Meetings, Summer 2008
- CEARAC 7<sup>th</sup> FPM, Sep. 2009

# **CEARAC Projects**

WG3 -HAB Case Studies

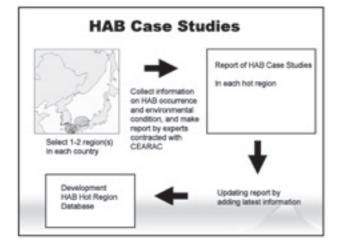
-HAB Integrated Website

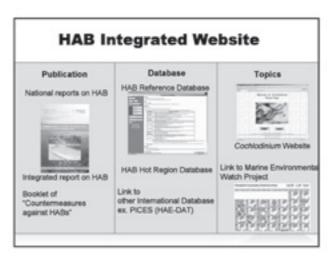
WG4 -educational materials for utilization of remote sensing data for coastal environment conservation

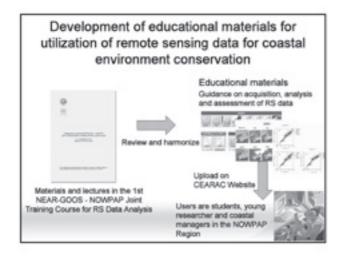
> -2nd training course on remote sensing data analysis

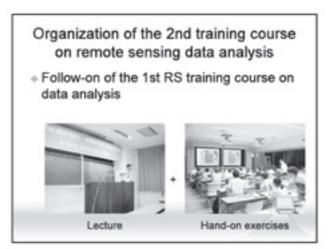
joint activity of WG3 and WG4

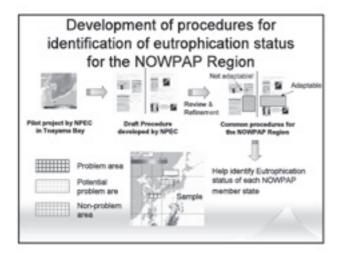
-procedures for assessment of eutrophication status for the NOWPAP Region



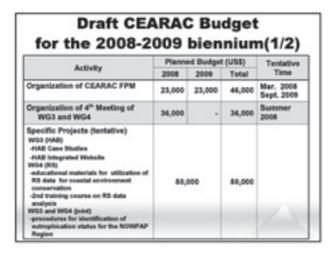












Activity	Planne	Tentative		
	2008	2009	Total	Time
Intersessional Work	3,000	3,000	6,000	
Cooperation and Coordination of CEARAC activities	4,000	4,000	8,000	
Publication of CEARAC Newsletter	2,000	2,000	4,000	Autumn 2008 2009
TOTAL			150,000	

**Draft CEARAC Budget** 

for the 2008-2009 biennium(1/2)

# HAB Case Studies

# CEARAC 18 September 2007

# Objective

Objectives of these case studies are

- (1) To establish the most effective and laborsaving ways for sharing various information on HAB (harmful red tide and toxin producing plankton) occurrence
- (2) To summarize common concerned items in the hot regions in case studies reports

# Main Tasks

- · Selection of HAB hot region in each member state
- Implementation of case studies
- ·Sharing information on hot region
- ·Updating the information on hot region

# Image of the report of case studies

In case of the north-west of Kyushu hot region

# Contents

- 1. Monitoring system and items on HAB
- 2. HAB occurrence
- 3. Environmental condition
- 4. Adverse effect by HAB
- 5. Summary

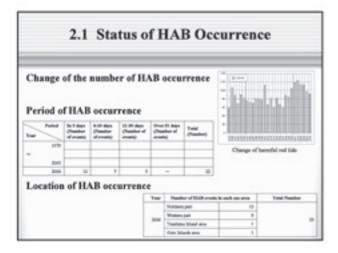
Attachment (List of all HAB events)

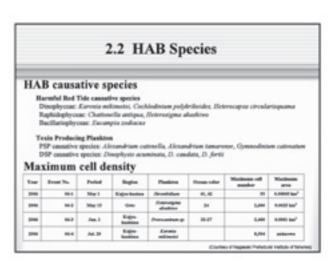
- 1. Monitoring system and items on HABs
- 1.1 Outline of hot region
- 1.2 Monitoring system
- 1.3 Monitoring items
- 1.4 Standards for HAB occurrence

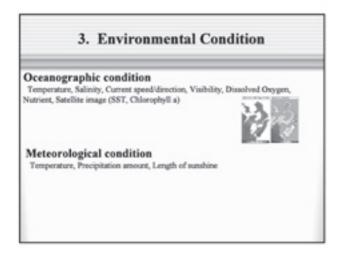
# 1.1 Outline of hot region Topographic position of this hot region Oceanographic condition around this region 1.2 Monitoring system Implementing agencies in this region Fukunda Fisheries & Marine Technology Rosearch Center Nagasakii Profectural Institute of Fisheries Saga Profectural Cookai Fisheries Research and Brevelopment Center Yamagschi Profectural Fisheries Research Center

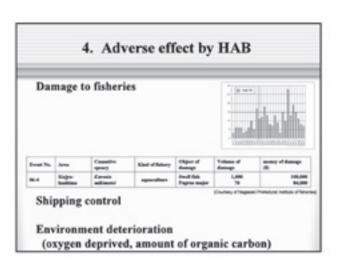
# 1.3 Monitoring Items Items on HAB occurrence Plankton, Cell density, Chlorophyll a, Shellfish poison, Maximum area, Ocean color Items on Occanographic condition Water temperature, Salinity, Dissolved oxygen, Visibility, Nutrient Items on Meteorological condition Temperature, Procipitation amount, length of sunshine 1.4 Standards for HAB Occurrence Challenels entire (thering one 1 colabet, Agent one 10 colabet, Challenels entire (thering one 1 colabet, Agent one 10 colabet, Challenels entire (thering one 10 colabet, Agent one 10 colabet, Challenels plates (thering one 10 colabet, Agent one 10 colabet, Challenels plates (thering one 10 colabet, Agent one 10 colabet, Challenels plates (thering one 10 colabet, Agent one 10 colabet, Challenels (thering one 10 colabet, Agent one 10 colabet, Challenels (thering one 10 colabet, Agent one 10 colabet, Challenels (thering one 10 colabet, Agent one 10 colabet) Interesting on industrial (colabet, Agent one 10 colabet) Interesting one development of Verring one 10 colabet, Agent one 10 colabet, Colabet (Colabet, Colabet, Colabet) Colabet (Colabet, Colabet, Colabet,

# 2. HAB Occurrence 2.1 Status of HAB events 2.2 HAB species









# 5. Summary

- Coastal environment Increase or decrease of number of HAB event in recent year Improvement or deterioration of eutrophication
- Collaboration and cooperation with other region and organization for sharing information on HAB List up the common concerned items among hot regions

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# **Expected Output**

These case studies will contribute to establish effective and laborsaving ways for sharing information among the NOWPAP member states.

The achievement of case studies will be listed on a database established by CEARAC, so the information will be available for wider community.

# 

# **HAB Integrated Website**

CEARAC 18 Sep. 2007

# Objective

 To provide and share information on HAB in order to enhance activities against HAB in the NOWPAP region

# Main Tasks

- · Preparation of draft outline of the website
- \*Coordination with other international organization
- \*Development of HAB Integrated Website

# **Expected Outcome**

## This website

can provide useful information to support actions against HABs in the NOWPAP Member States

contributes to exchange information and share information with other regional seas and international organizations

# Time Schedule Time Schedule Total Schedule The Schedule

# Image of this website

## Publications

National Reports on HAB, Integrated Report on HAB, Booklet of "Countermeasures against HABs"

## Database

HAB Reference Database, HAB Hot Region Database Link to HAE-DAT(PICES), HAB-BIB(IOC/HAB)

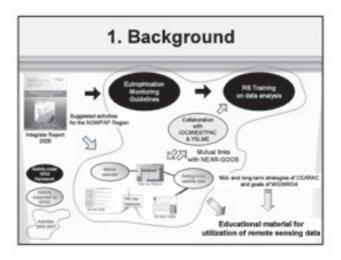
## Topics

Cochlodinium Website

Link to Marine Environmental Watch Project

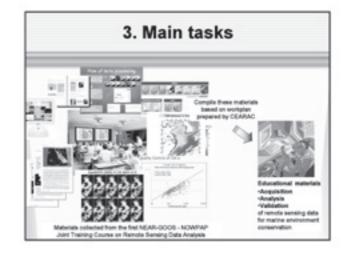
Proposal for development of educational materials for utilization of remote sensing data for marine environment conservation

CEARAC Sep 18, 2007



# to develop educational materials for utilization of remote sensing data for marine environment conservation, targeting at students, young researchers and coastal managers in the NOWPAP Region.

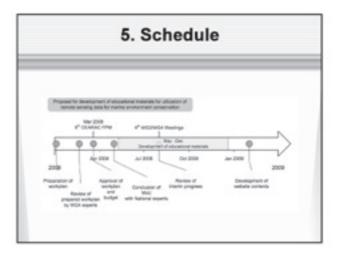
Educational materials

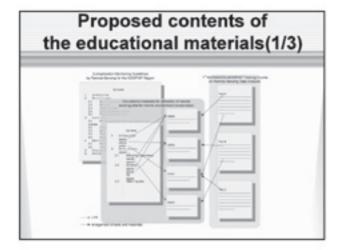


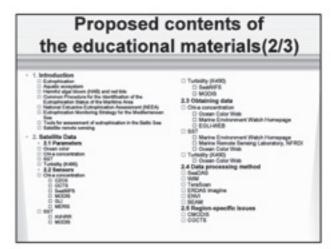
# 4. Expected outcome

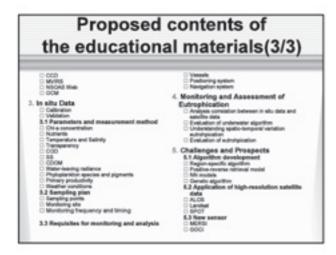
Targets

 to contribute to wide use of remote sensing data among students, young researchers and coastal managers in the NOWPAP Member States. In addition, the materials will be adequately polished through feedbacks of users or experts, given from the second NOWPAP training course on remote sensing data analysis and other possible opportunities.





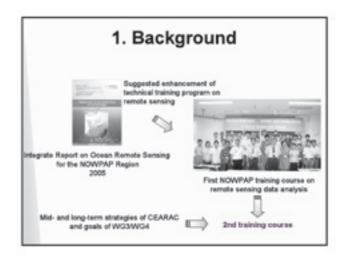






# Proposal for the second NOWPAP training course on remote sensing data analysis

CEARAC Sep 18, 2007



# 2. Objective

 to conduct an intensive training course on remote sensing data analysis for students, young researchers and coastal managers to obtain useful skills and knowledge to utilize remote sensing data in monitoring and assessment of marine environment.

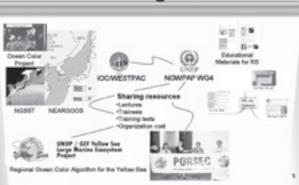




# 3. Main tasks

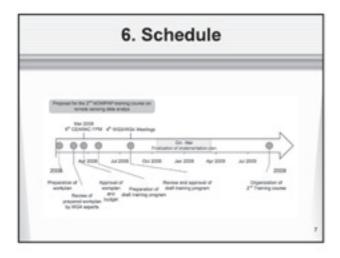
- Expected tasks of NOWPAP WG4
  - · Review of workplan
    - . Venue, schedule, budget, etc.
  - · Review of syllabus
    - . Time for each lecture
    - Composition of lectures and hands-on practices
  - . Nomination of lecturers
  - Recommendation of potential trainees

# 4. Potential partnership with other organizations



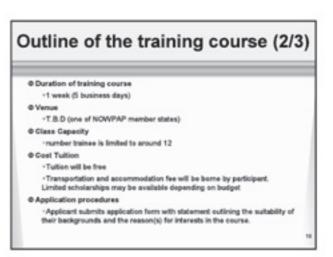
# 5. Expected outcome

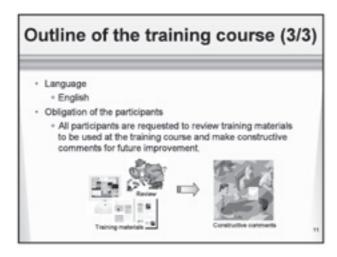
 to contribute to capacity building of the NOWPAP Member States for utilizing remote sensing data for marine environment conservation. It is also expected to obtain useful information to consider future directions of CEARAC activities related to remote sensing.



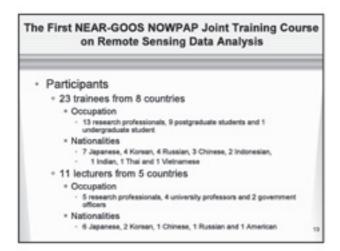
# Annex Outline of the second NOWPAP training course on remote sensing data analysis

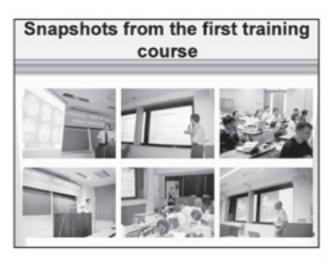
# Composition of the training course - Lectures Satellite oceanography, introduction to ocean color remote sensing, availability of satellite data, case studies of red tide, monitoring of eutrophication, validation of algorithms, monitoring of oil spill; - Hands-on practice sessions Operation of remote sensing software; visualizing and verification of ocean color satellite data, time series analysis of ocean color data - Submission of case study report - Conducting case study on specific subject









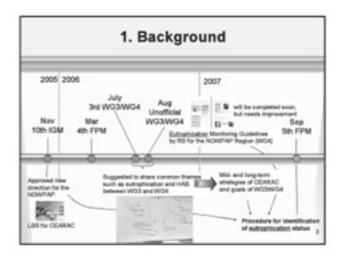






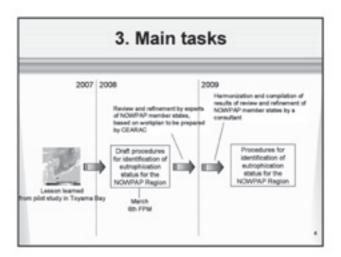
Proposal for development of procedures for assessment of eutrophication status including evaluation of land base sources of nutrients for the NOWPAP Region

CEARAC
Sep 18, 2007



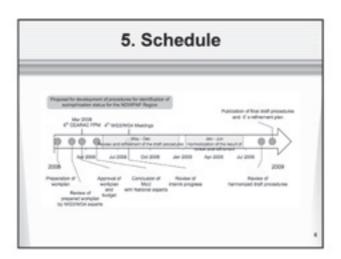
# 2. Objective

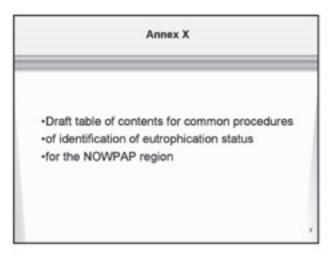
 to develop useful procedures for identification of eutrophication status by utilizing remote sensing techniques that can be shared among the NOWPAP members, based on lessons learned from a pilot study conducted in Toyama Bay.

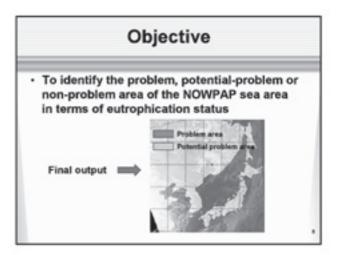


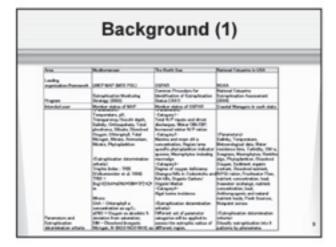
# 4. Expected outcome

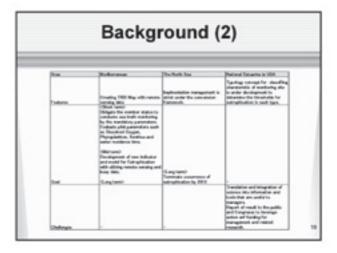
 to contribute to identification of eutrophication status, including evaluation of Land Based Source, by utilizing remote sensing techniques in each NOWPAP member state.







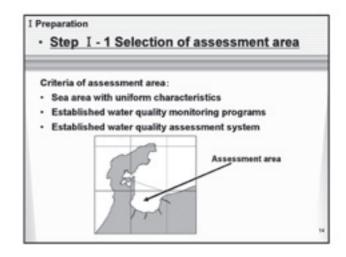


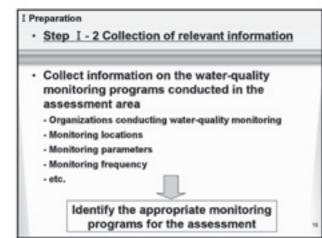


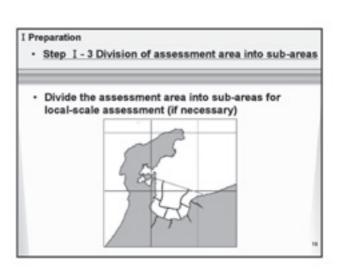
### Background (3) UNEP MAP OSPAR NOAA MED POL .Concept of TRIX is \*Easy to understand \*Sophisticated but and only sharing may be difficult to easy to understand, but cause analysis common procedures implement may be difficult -Member country Domestically can decide the implemented only in eutrophication the USA status by their own ·Focus on estuarine -Cause analysis seems reasonable

Wey features of procedures for identification of eutrophication status for the NOWPAP Region
 Using existing in situ data and remote sensing data
 Used data are classified by causative factor (e.g. nutrient load), and direct and indirect effect from eutrophication
 Using historical trend to identify eutrophication status
 To provide complementary method for existing management of marine environment

# Table of Contents I Preparation I Education of assessment area 2 Collection of assessment area 2 Collection of assessment area into sub-areas 4 Education of assessment parameters 4 Descention of assessment parameters 4 I Parameters that indicate soft-and work-branet 4 I Parameters that indicate indirect effects then restrict enrichment 4 I Parameters that indicate indirect effects then restrict enrichment 4 I Parameters that indicate indirect effects then restrict enrichment 4 I Parameters that indicate indirect effects then restrict enrichment 5 Education of assessment that indicate effects then restrict enrichment 5 Education of enriching sites of the assessment area 1 Data Analysis 1 Analysis of monitoring data for establishing assessment levels 2 Analysis of monitoring data for the classification of assessment area 1 Education of Assessment Area 1 Initial classification







# Preparation Step I - 4 Selection of assessment parameters (1) Classify available water quality parameters into the following 4 categories Category 1: Indicator of nutrient enrichment Category 2: Indicator of direct effects of nutrient enrichment Category 3: Indicator of indirect effects of nutrient enrichment Category 4: Other possible indicators of nutrient enrichment

# I Preparation • Step I - 4 Selection of assessment parameters (2) Examples of indicators of nutrient enrichment (Category 1) • Riverine input and direct discharges of T-N and T-P (Indicator of nutrient enrichment from land-based sources) • Winter DIN and DIP concentration (Indicator of nutrient enrichment levels when algal activity is lowest) • Winter N/P ratio (Increased N/P ratio increases the risk of nuisance and toxic algal species)

## I Preparation

Step I - 4 Selection of assessment parameters (2)

# Examples of indicators of direct effects of nutrient enrichment (Category 2)

- Chlorophyll-a concentration (Indicator of increase in primary production from nutrient enrichment)
- Phytoplankton species (Indicator of increase occurrences of HAB species from nutrient enrichment)

## I Preparation

Step I - 4 Selection of assessment parameters (3)

# Examples of indicators of indirect effects of nutrient enrichment (Category 3)

- DC

(Indicator of oxygen deficiency induced by decaying algal blooms and long-term nutrient enrichment)

 Changes/kills in zoobenthos (Indicator of oxygen deficiency and long-term nutrient enrichment)

- Fish kills

(Indicator of oxygen deficiency and HABs)

\_

## I Preparation

Step I - 4 Selection of assessment parameters (4)

## Other possible indicators of nutrient enrichment (Category 4)

 Algal toxins in shellfish (Indicator of occurrences of toxin-producing planktons) I Preparation

Step I - 4 Selection of assessment parameters (5)

 Select parameters for each assessment category which could be used for the assessment process (the quantity/quality of the data must be sufficient for the assessment process)

## Example

C1: Indicator of nutrient enrichment	T-N, T-P Winter DIN/DIP	
C2: Indicator of direct effects of nutrient enrichment	Chlorophyll-a	
C3: Indicator of indirect effects of nutrient enrichment	DO	
C4: Other possible indicators of nutrient enrichment	Algal toxins	

Preparation
 Step I - 5 Selection of monitoring sites of the assessment area

 Select monitoring sites that conduct regular monitoring of the selected parameters in Step 4

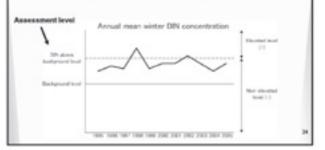


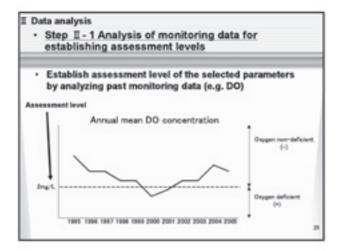
The monitoring site should have 5 years of continuous data

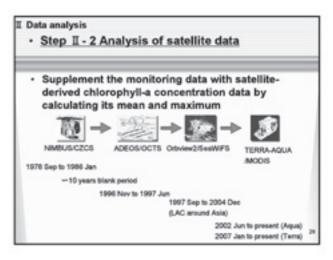
Data from the selected monitoring sites will be used for the assessment

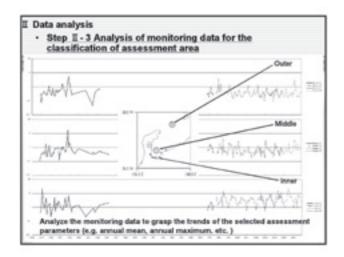
# II Data analysis

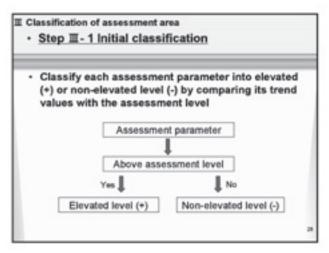
- Step II 1 Analysis of monitoring data for establishing assessment levels
- Establish assessment level of the selected parameters by analyzing past monitoring data (e.g. winter DIN)

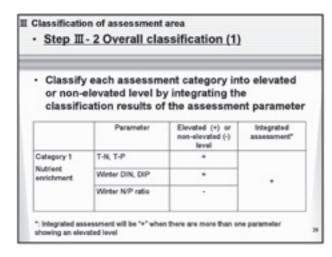


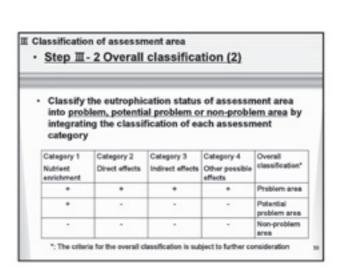




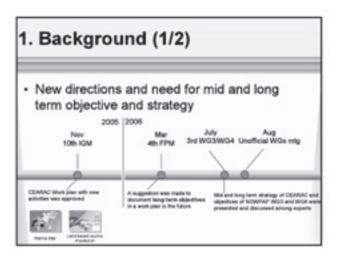








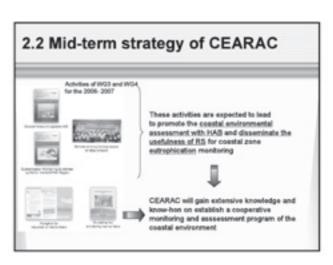
# Mid- and long-term strategies of CEARAC and goals of NOWPAP WG3 and WG4 CEARAC September, 2007

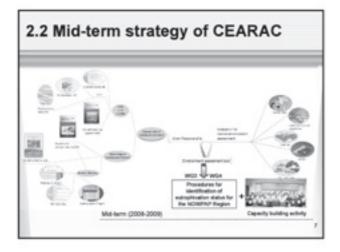


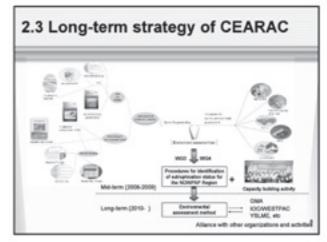
# 1. Background (2/2) Unofficial WGs meeting Busen, Kores on Aug 3, 2006 Conceptual diagram for CEARAC activities in mid- and long-term

# Mid- and long-term strategy of CEARAC Given responsibility of CEARAC Memorandum of Understanding between UNEP and NPEC coordination of regional activities for assessment of the state of the marine, coastal and associated freshwater environment, including assessment of pollutant input for the purpose of comparison with the monitoring result. CEARAC is also expected to develop tools for environmental assessment, which can be used and shared among the member States as assessment tool that include special techniques for monitoring and assessment.









# 3. Objectives and goals of WG3

# Objectives of WG3 is the following,

# Objective

To coordinate development of assessment tools for coastal environment with HAB (red tide and harmful algal bloom) as an indicator

# 3. Objectives and goals of WG3

# Activities of WG3 to achieve the objective

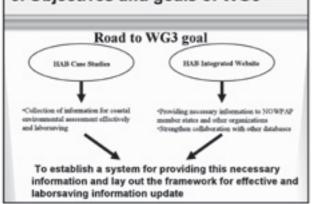
Need activity to understand interaction between HAB occurrence and oceanic and meteorological condition.



## **HAB Case Studies**

- The most effective and laborsaving ways for sharing information among NOWPAP member states will be established
  - → HAB Integrated Website
- · Common concerned items in the hot region are summarized
  - Indicators for coastal environmental assessment

# 3. Objectives and goals of WG3

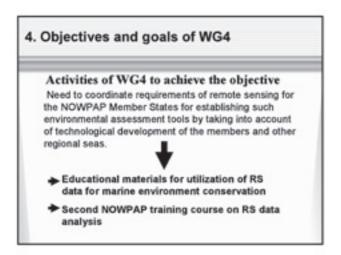


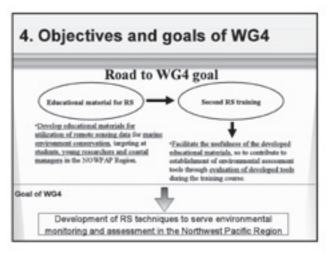
# 4. Objectives and goals of WG4

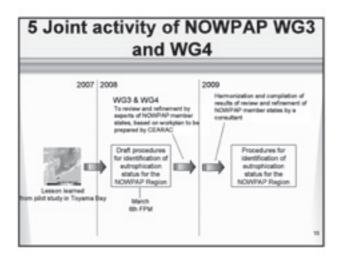
# Objectives of WG4 is the following,

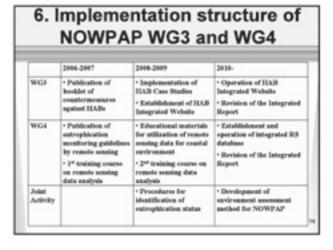
# Objective

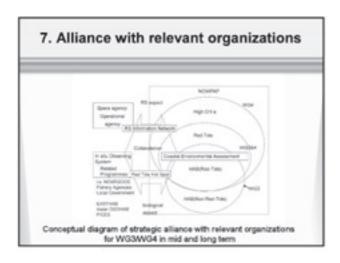
To coordinate the development of environment assessment tools utilizing remote sensing techniques, with focusing on the assessment of eutrophication, realizing that they are basic indicators for water quality of the region

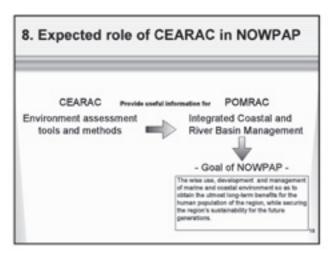












# Draft Guideline on establishment and disbanding of Working Groups

# **NOWPAP CEARAC**

18-19 Sep. 2007

# 1. Background

The 10th IGM of NOWPAP (24-26 November 2005, Toyama, Japan) has approved the new directions for the NOWPAP RACs, including new CEARAC activities, such as those involving Land Based Sources of Pollution (with other RACs) and Marine Litter (with other RACs).

Following the 10<sup>th</sup> IGM decisions, the revised TOR for the NOWPAP CEARAC FPM, which enables the FPM to establish and disband Working Groups of CEARAC, were submitted by CEARAC Secretariat to the 4<sup>th</sup> FPM (8-9 March 2006, Toyama, Japan).

The 4th FPM agreed to submit the draft TOR for the FPM to the 11th IGM, and to prepare the "Guidelines on the Establishment and Disbanding of Working Groups of CEARAC" for the next FPM.

The 11th IGM approved the revised Terms of Reference for the NOWPAP CEARAC FPM.

# 2. Establishment of Working Groups

- A Working Group is an ad hoc group of experts established with the approval of the NOWPAP CEARAC Focal Point Meeting (hereinafter referred to as the FPM).
- The Terms of Reference of each Working Group stipulate its objectives, function, participation, sessions, and tasks, as well as other necessary matters for smooth operation of the Group.

# 3. Tasks of Working Groups

 A Working Group shall undertake specific tasks according to its TOR, within the framework of CEARAC activities, which is stated in the Memorandum of Understanding (MoU) between UNEP and NPEC, a hosting organization of CEARAC.

# 4. Working Group Members

- A Working Group shall consist of experts of NOWPAP Members, who have the necessary knowledge and experience to achieve the objectives of the Group.
- The FPs shall appoint Working Group members from each NOWPAP Member for each Working Group.
- The FPs shall inform the Secretariat promptly, in writing, of any changes in the names of Working Group members.

# 5. Sessions

- The meetings of a Working Group shall be held as requested by the FPM. The FPM will discuss the needs and timing of the meeting, depending on recommendations by each Working Group.
- Besides the Working Group members, other relevant international and/or regional bodies and organizations, with objectives relevant to those of a CEARAC Working Group, may be invited to participate in Working Group Meetings as observers.

# 6. Secretariat

 The CEARAC Secretariat shall serve as the Working Group Secretariat.

# 7. Disbanding of Working Groups

- The FPM shall decide to disband a Working Group
- (i) when the FPM recognizes the completion of the Group's tasks, including submission of their outcomes, as stated in the TOR of the Group;
- (ii) when the FPM recognizes inadequate progress of the Group in achieving its tasks;
- (iii) when the FPM recognizes it to be appropriate for other groups to take over the tasks of the Group; or
- (iv) when the FPM recognizes that disbanding the Group is inevitable for a reason other than (i), (ii) or (iii) above.

# 8. Supervision of Working Groups

 The progress of tasks undertaken by Working Groups shall be reviewed regularly by the FPM.

# 9. Amendment or Suspension of the Guidelines

- The rules in these Guidelines on the Establishment and Disbanding of Working Groups may be amended or suspended only by a decision by the FPM.
- Any proposal involving changes to these Guidelines shall be considered at the FPM.

