

Annex X

Proposed contents of Integrated Report

(Reviewed by the Second Meeting of NOWPAP WG4)

Proposed contents of Integrated Report

1 Background

The Integrated Report of NOWPAP WG4 (2003) submitted to the 2nd CEARAC FPM included immature contents due to disparity of the contents among each National Report that gave basis to the Integrated Report. Thus, concrete standardization efforts of national reports have been made such as: National Report Guideline discussed in 1st NOWPAP WG4 meeting (December 2003) and 2nd CEARAC FPM (March 2004); and National Report will be completed and authorized by the end of March 2005 and will be compiled into Integrated Report.

2 Objective

NOWPAP WG4 has set the final goal of its activities as establishing cooperative marine environmental monitoring by remote sensing to contribute to conservation of marine environment in NOWPAP region. To achieve the goal, there are a lot of matters to be considered enough including: identification and solution of technical issues of marine environmental monitoring by remote sensing; and technical and financial arrangement in NOWPAP region. The Integrated Report aims at sharing common understanding which is necessary to consider these issues and informing its progress of consideration internationally.

3 Contents

The draft table of contents of the Integrated Report is shown below. Regional consultants hired by CEARAC prepare Integrated Report and CEARAC, NOWPAP WG4 members, and CEARAC FP share the responsibility of the contents.

1 Introduction

Introduction of NOWPAP and the Integrated Report's role in its activities.

2 Outline of Marine Environmental Monitoring by Remote Sensing

Introduction of status of marine environmental monitoring by remote sensing in NOWPAP region by summarizing this report, including an introduction of utilizing sensor/satellite.

3 Examples of Marine Environmental Monitoring by Remote Sensing

List of on-going marine environmental monitoring by remote sensing in NOWPAP region reported in National Report will be introduced. Selected projects, which are expected to contribute to the NOWPAP activities, will be highlighted in details.

4 Research and Development of Marine Environmental Monitoring by Remote Sensing.

4.1 Sensor/Satellite

As an introduction of the latest development on sensor/satellite to be used for marine environmental monitoring in NOWPAP region, an integrated list of them described in National Reports will be shown and selected projects, which are expected to be used in NOWPAP region, will be highlighted in details.

4.2 Algorithm

Algorithms to estimate physical quantities and to detect oil spills, which are under development in NOWPAP region, will be introduced. An integrated list of them described in National Reports will be shown and selected projects, which are expected to contribute to be used in NOWPAP will be highlighted in details. The target physical quantities are SST, *chlorophyll-a* concentration, and primary productivity.

4.3 Verification

Verification results of the products and present condition of *in situ* data arrangement in NOWPAP region which is necessary for algorithm development will be shown comprehensively based on the National Reports.

5 Other Activities Relating to Marine Environmental Monitoring by Remote Sensing

5.1 Infrastructure

List of product delivery and distribution system, etc in NOWPAP region summarized from National Reports and selected systems, which are expected to be used in NOWPAP, will be described in details.

5.2 Research Network

List of cooperative research and workshops, etc in NOWPAP region summarized from National Reports and selected activities, which are expected to have collaboration with NOWPAP, will be described in details.

6 Knowledge on Marine Environment Obtained by Remote Sensing

Knowledge on marine environment in NOWPAP region obtained by remote sensing will be introduced by each sea area based on National Reports.

7 Issues and Future Prospects of Marine Environmental Monitoring by Remote Sensing

By analyzing present needs of each country, gaps among NOWPAP region will be reviewed. Then, present issues and future prospects will be described towards the realization of cooperative marine environmental monitoring by remote sensing.

4 Schedule

Draft Integrated Report will be reviewed at 3rd CEARAC FPM in summer 2005. Integrated Report will be completed and authorized by the end of 2005.