





About this publication:

This volume provides a summary of the Fifth Meeting of the Regional Scientific and Technical Panel (RSTP) and the Fifth Meeting of the Project Steering Committee (PSC) under the UNDP/GEF Project, “Reducing Environmental Stress in the Yellow Sea Large Marine Ecosystem.”

The 5<sup>th</sup> RSTP Meeting was the fifth time panel members met after four years of project implementation to review the progress of the project, and to provide guidance for further implementation, particularly for Strategic Action Programme implementation. The report also includes a summary of the discussions and agreements from the Meeting, and ideas for the way forward.

The 5<sup>th</sup> PSC Meeting, as the fifth assembly of committee members, reviewed and agreed on the progress made after four years of project implementation and the activities proposed for further implementation. The report of this meeting includes a summary of the discussions, agreements, and approvals made by the Committee, and suggestions for the way forward.

For reference purposes, this report may be cited as:

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*UNDP/GEF 2008. Reducing Environmental Stress in the Yellow Sea Large Marine Ecosystem, Report of the Fifth Meeting of the Project Steering Committee. UNDP/GEF/YS/PSC.5/3. (27-28 November 2008).*

# REDUCING ENVIRONMENTAL STRESS IN THE YELLOW SEA LARGE MARINE ECOSYSTEM

**Report of the Fifth Meeting of the  
Regional Scientific and Technical Panel  
UNDP/GEF Yellow Sea Project**

**Shanghai, China, 25-26 November 2008**





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**UNDP/GEF PROJECT ENTITLED “REDUCING ENVIRONMENTAL STRESS IN THE  
YELLOW SEA LARGE MARINE ECOSYSTEM”**

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UNDP/GEF/YS/RSP.5/3  
Date: 26 November 2008  
English only

**Fifth Meeting of the Regional Scientific and Technical Panel  
for the UNDP/GEF Yellow Sea Project**  
*Shanghai, China, 25-26 November 2008*

**Report of the Meeting**



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## **1 OPENING OF THE MEETING**

### **1.1 Welcome addresses**

1. On behalf of UNDP/GEF, Ms. Anna TENGBERG, welcomed all participants to the meeting and thanked the government of China for hosting the meeting. She noted the successes in project implementation since the last PSC meeting, such as the implementation of the co-operative cruises, the joint regional fishery stock assessment cruises and the preparation of the SAP, NSAPs, and PIF. Ms. Tengberg gave an overview of the work to be accomplished by the meeting, and complimented the project for its “highly satisfactory” rating by UNDP. Finally, Ms. Tengberg informed the meeting of the IW Conference that will be held next year in Australia.
2. Mr. Hyung Tack HUH (ROK), Mr. Fengkui LIANG (China), Mr. Hyon Chol JANG (DPRK) expressed their satisfaction with project implementation and emphasised the importance of continuing the benefits provided by the project into a second phase. All the representatives from the coastal countries of the Yellow Sea wished for fruitful and successful outcomes from the meeting. In particular, DPRK thanked the Project for having arranged 2 capacity building workshops throughout the year, in order for DPRK to better understand the project and be prepared to join the next phase of the project.
3. Mr. Yihang JIANG welcomed all participants and thanked the SOA Polar Research Institute for the meeting’s local arrangements. Mr. Jiang gave special mention to the governments of China and ROK for co-financing resources that have allowed DPRK’s involvement in project activities.

### **1.2 Introduction of the members**

4. Participants introduced themselves and the organisations that they represent. The list of participants is attached as [Annex I](#) to this report.

## **2 ORGANISATION OF THE MEETING**

### **2.1 Election of Officers**

5. According to practical meeting arrangement, the meeting invited Mr. Huh to serve as the Chairperson. Mr. Liang nominated Mr. Mingyuan ZHU as Vice-Chairperson. The Meeting agreed, and Mr. Zhu was duly elected as Vice-Chairperson.
6. The PMO served as Secretariat to the Meeting.

### **2.2 Meeting Documents**

7. The Chairperson invited the Secretariat to introduce the documents prepared for the meeting.
8. Ms. Connie CHIANG explained the “Working and Information Documents” that need to be considered by the meeting.
9. The meeting took note of the list of documents, which is attached as [Annex II](#).

## **2.3 Organisation of Work**

10. Ms. Chiang introduced the proposed working programme for the meeting, and provided information about the organisation of the meeting.
11. The meeting agreed on the working programme proposed by the PMO, noting that it would be flexible depending on the time needed for each agenda item. The meeting was organised in plenary and sessional working groups were formed for specific issues.
12. The Meeting was conducted in English.

## **3 ADOPTION OF THE MEETING AGENDA**

13. The Chairperson invited participants to consider the Provisional Agenda (UNDP/GEF/YS/RSP.5/1) and Provisional Annotated Agenda (UNDP/GEF/YS/RSP.5/2), and to propose any amendments.
14. The Members adopted the agenda, without changes, which is attached as [Annex III](#) to this report.

## **4 PROJECT IMPLEMENTATION REPORT**

- 4.1 Implementation of Project Activities**
- 4.2 The SAP and SAP Demonstration Activities**
- 4.3 Regional Co-operation**
- 4.4 Report on the Project Management Office (PMO)**
- 4.5 Financial Report**

15. Referring to Document UNDP/GEF/YS/RSP-PSC.5/4, the PMO presented the Project Implementation Report, listing the major achievements over the past year including:
  - Winter and summer co-operative cruises;
  - Joint regional fisheries stock assessment;
  - Finalisation of the SAP, including the PSAA;
  - Initiation of SAP demonstration activities;
  - Planning for project's next phase; and
  - Enhanced co-operation mechanisms, allowing the involvement of DPRK in some activities.
16. Some noteworthy achievements were highlighted as follows:
  - Co-financing from the government of China for providing and operating a larger research vessel for the summer cruise.
  - A three-party MoU on DPRK capacity building activities was signed by KORDI, Dalian Society of Oceanography and the project.
  - The ocean colour algorithm activity has provided algorithms for use in turbid waters of the region, with the sharing of data among China, ROK, and Japan, and the preparation of at least 1 peer-reviewed journal article.
  - The PMO continues to issue quarterly newsletters, providing updates on project implementation.

17. Challenges to project implementation were mentioned, and recommendations to overcome the challenges as listed in the Project Implementation Report were given.
18. Mr. Jiang explained the 2008 Expenditure Report with total expenditure of over USD 4 million. He noted the increase in activities, particularly planning for the project's next phase, was not in the original budget, but approved by the Special PSC, and implemented with savings from completed activities.
19. Additional co-financing from ROK and China were reported: MLTM provided USD 125,000 for capacity building and NSAP activities; China provided about USD 100,000 for the co-operative cruises.
20. Participants gave their feedback on the Project Implementation Report which included topics on SAP demonstration activities, proposed activities on capacity building, enhanced role of NPC, official involvement of DPRK in the project's current phase, status of the MSP, co-financing resources for the current project phase, and NSAP preparation.
21. The discussion summary is as follows:
  - Mr. Hong raised a question on the number of SAP demonstration activities in the participating countries, and hoped that future implementation of project activities would be better distributed between participating countries. In responding to this question, Mr. Jiang informed the meeting that selection of demonstration activities followed the open bidding and external review processes. He noted to the meeting for providing better benefits to the participating countries, the distribution of project activities would be further considered within the rules of the operational system.
  - SAP demonstration activities all underwent an open bidding and evaluations procedure, as required by UNOPS Procurement policy. Some activities received only 1 or no bids.
  - Mr. Jang suggested holding training workshops in DPRK in order to introduce the concept and structure of the project, TDA, and SAP to more national stakeholders for greater public awareness and understanding. The meeting noted that the proposed workshops will be considered in future, but need to keep in mind the restrictions on GEF project funds.
  - It was noted that the NPCs play an important role, which could be enhanced to address topics such as national level capacity building, expert workshops, and assisting to develop national policies. It was recognised that the national co-ordinating mechanism is different between the countries, and the project works within each country's structure, as appropriate.
  - Ms. Tengberg updated the meeting on the operation of the UNDP Pyongyang Office that perhaps the office would resume in the mid-2009. She agreed to discuss with GEF, the status of the MSP, as this would be a good opportunity to fund activities in DPRK.
  - Official involvement of DPRK in the project's current phase was briefly discussed again. It was explained that the details of their participation, once approved, would be fleshed out after consultation with DPRK government officials and experts.
  - It was emphasised that co-financing tracking and reporting of the current phase would be an item for the Terminal Project Evaluation to examine. This has been requested from Chairpersons of NWGs and RWG, and PMO is awaiting the submissions. The meeting requested the Chairpersons of the

RWGs to complete the estimation of co-financing resources, and the co-financing provided by the participating countries be prepared.

- Participants noted the linkages between SAP and NSAP, where the latter should prioritise national issues with respect to transboundary issues listed in the SAP. As many details as possible (activities, timeline, budget) could be included in the NSAP for the countries to have a clear understanding on how to implement the NSAP and SAP from a national perspective.

22. Following the comments from the participants, and responses from the PMO, the meeting adopted the report.

## **5 REPORTS OF THE NATIONAL PROJECT CO-ORDINATORS (NPC)**

23. The NPCs from China and ROK presented their reports (UNDP/GEF/YS/RSP.5/5a-b) on implementation of project activities at national level covering:

- Activities implemented in 2008;
- Results and achievements;
- New developments;
- Difficulties/problems encountered in project implementation; and
- Suggestions for future work.

24. The NPCs mentioned the co-operative cruises, SAP and NSAP preparation, progress in obtaining SAP endorsement, assistance with activities and meetings held in their country, co-operation with other organisations, and nominating participants for project events.

25. Mr. Liang stated that communication with different ministries is critical for SAP implementation. The meeting was informed that SAP endorsement in China is under review by various ministries, with some asking questions for clarification. Endorsement of SAP by China is expected soon.

26. Mr. Huh reported that the SAP and PIF were translated into Korean and distributed to relevant government agencies in ROK. Ms. Young Rae CHOI reported that the NSAP was scheduled to be completed in December 2008, with the English version scheduled for release in January 2009.

27. Mr. Jiang expressed his appreciation to the Governments of China and ROK for their continuing support to project implementation.

28. Participants noted the information provided by the NPCs.

## **6 REPORT FROM CHAIRPERSONS OF THE REGIONAL WORKING GROUPS, INCLUDING SAP DEMONSTRATION ACTIVITIES**

- 6.1 Biodiversity**
- 6.2 Ecosystem**
- 6.3 Fisheries**
- 6.4 Investment**
- 6.5 Pollution**

29. The RWG Chairpersons were invited to present the progress on their respective RWG component (UNDP/GEF/YS/RSP.5/6a-e). The Chairperson of RWG-F was unable to attend the meeting, but provided a written report (Document UNDP/GEF/YS/RSP.5/6c), to which participants were referred. The participating Chairpersons mentioned:
- Activities implemented in 2008;
  - Suggested future activities; and
  - Some recommendations for project implementation.
30. Additional details and discussion following each presentation is described below.

#### Biodiversity

31. Mr. Youn-Ho LEE summarised the RWG-B's activities, the initiation of SAP demonstration activities, and the co-operative efforts with various regional efforts such as YSESP and the Ramsar COP 10 Meeting.
32. Mr. Jiang emphasised the success of working with YSESP, giving good examples of sharing resources while working in the same sites, and the exchange of reviewing each other's Small Grants proposals.

#### Ecosystem

33. Mr. Sinjae YOO reported on the activities of ocean colour algorithm, primary productivity estimation, and SAP demonstration activities. He emphasised the importance of publishing scientific results in major science journals in order to share our findings, prove the scientific results from the project is sound, allow the scientific community to recognise new findings from the project, and to promote the project's visibility. Mr. Yoo recommended the project's findings contribute to PICES "North Pacific Ecosystem Status Report 2<sup>nd</sup> Ed."
34. It was noted that the ocean colour algorithm activity is providing a high level of co-financing to the project, as all members are contributing their time and expertise to the activity without collecting additional salary from project funds. Mr. Yoo also stated that the regional algorithm will provide an important tool for more effective regional monitoring of the marine environment, and provide further scientific information on the Yellow Sea ecosystem for relevant management actions.

#### Fisheries

35. Mr. Jiang introduced some highlights of this component: 4 joint regional fisheries stock assessment surveys have been carried out and data are being analysed; the World Aquaculture Society held its conference in Busan consisting of participants from over 95 countries; the various mariculture SAP demonstration activities. Mr. Jiang reminded the meeting that the MSP proposal contained an activity on training on sustainable mariculture for DPRK, and hoped that this activity could be materialised, when funding is available.

#### Investment

36. Mr. ZHU gave an overview of this component's many activities, including public awareness, the databases, and NSAP preparation. The contents of China's NSAP

were introduced. Ms. Choi introduced the same for ROK's NSAP, including the structure, gap analysis, and activities and procedures to produce the NSAP.

37. Mr. Jiang informed the meeting that the youth programme received strong support by Buan City government officers. China Ocean News helped in organising a competition to select Chinese students to attend the programme. The co-financing from both parties was greatly appreciated.
38. Mr. Jiang also alerted the meeting to the Associate Experts Programme. He informed the meeting that it was a pity when the Associate Expert moved to a non-project related job. He requested that the tenure of the Expert should be more than 3 months in order for the candidate to have ample time to apply the skills learned, and to obtain a proper working visa in ROK.
39. There was a discussion on the GIS database mirror site, as the 5<sup>th</sup> RWG-I Meeting had deemed it not necessary to have the mirror site for this phase of the project, as it only serves as a backup of database, and cost estimation for a mirror site is too high compared with the budget allocated for this purpose.
40. Considering the mirror site is important for ROK, Mr. Hong stated that necessary funding may be found from national sources, and he was willing to discuss this matter with relevant experts and institutions on this matter, to try to find an appropriate solution to establish the mirror site next year. The meeting welcomed this suggestion.

#### Pollution

41. Mr. Quan WEN showed the results of the winter co-operative cruise and some results from the summer cruise. The SAP demonstration activities' objectives, study sites, and some preliminary results were presented, as were some suggested future activities.
42. Mr. Dong Beom YANG explained that many international surveys also face problems of inconsistent data. For the co-operative cruises, differences such as phosphate data are mostly attributed to systematic errors, and can be corrected. The cruise scientists will check for differences in standard reagents and methodology, and try to solve them.
43. Participants noted the information and recommendations provided by the RWG Chairpersons.

## **7 PREPARATION OF DOCUMENTS FOR PROJECT PHASE 2**

### **7.1 Progress-to-date**

### **7.2 Actions to Finalise Documents**

44. Ms. Chiang updated the meeting on the progress of preparing necessary documents for the project's the next phase (Document UNDP/GEF/YS/RSP-PSC.5/7). She informed the meeting that 2 working sessions had been convened by regional experts and government representatives from the 3 littoral countries to discuss activities, budget, co-financing resources and draft the PIF.
45. Ms. Tengberg informed the meeting about the funding cycle of GEF's 5<sup>th</sup> replenishment. GEF is currently negotiating with donors, and will conclude GEF IW

new strategy in April 2010. The project should aim for GEF 5<sup>th</sup> funding cycle, and submit the PIF and Project Document in 2010. The possible time for submission of PIF to GEF is April 2010, GEF Council will review in June 2010, and if accepted, the ProDoc will be reviewed in July 2010. If all goes well, September 2010 would be the best scenario to begin project phase 2.

46. Ms. Tengberg also informed the meeting that GEF will establish a Technical Advisory Group for each focal area, which will consist of external experts, but not include the implementing agencies. The Advisory Group might suggest new focal area strategies for GEF-5, which would not be known until middle of next year. However, SAP implementation is expected to remain as a focal area.
47. Ms. Tengberg provided some comments and modifications on the PIF's outputs and outcomes. The document is available from the PMO.
48. In responding to a question on the MSP proposal to upgrade the capacity of DPRK, it was clarified that the MSP, if funded, would be funded from GEF-4. However, GEF-IW has limited funds remaining in GEF 4, and most funds have already been committed. If any funds are available for the MSP, it would depend on UNDP Office in Pyongyang resuming operation.
49. The meeting was informed that the PIF needs GEF Focal Point endorsement from China and DPRK, and a supporting letter from ROK. The ProDoc will require co-financing letters from all countries.
50. Mr. Jang clarified that DPRK's co-financing amount as currently listed should be revised, and needs to be approved by the government.
51. **The meeting agreed to continue the efforts in preparing the necessary documents for the 2<sup>nd</sup> phase of the project, and aim to finalise the PIF in April 2009, with the ProDoc drafted before the 6<sup>th</sup> PSC Meeting.**

## **8 CO-OPERATION WITH OTHER ORGANISATIONS AND PROJECTS**

52. Mr. Jiang informed the meeting that the project continues to co-operate with various other organisations and projects such as YSESP, NOWPAP, KORDI, PEMSEA, IOC/WESTPAC and governmental and non-governmental organisations. Details of these activities are listed in the Project Implementation Report.
53. Mr. Yoo introduced PICES and proposed 2 areas of co-operation with PICES: 1) non-indigenous species; and 2) new future integrative science program. Mr. Yoo provided some details on the first activity where it will carry out monitoring and assessment, rapid assessment survey, and develop an information system. It was suggested to RWG-B and YSESP to collaborate by providing more taxonomic experts, data exchange and dissemination through PICES' information system.
54. Mr. Hong noted the good co-operation with other organisations and projects carried out by the project, including that with PEMSEA. He indicated that there is a need to have an analysis of co-operative mechanism to ensure better co-operation with relevant international organisations, in the project 2<sup>nd</sup> phase to maximise the benefits to participating countries and avoid duplication of efforts.

55. Mr. Xiaodong ZHONG informed the meeting on the collaboration between NOWPAP and the project: Letter of Co-operation signed, sharing of data and information, and participating in each other's events. He noted that there were many complementary activities, and looked forward to continued collaboration.

## 9 PROPOSED WORKPLAN AND BUDGET FOR 2009 AND ONWARDS

### 9.1 Proposed Activities

### 9.2 Proposed Project Budget for 2009 and Onwards

### 9.3 Proposed Workplan for 2009

56. The Secretariat introduced this agenda item, referring to Documents UNDP/GEF/YS/RSP.5/8 and 5/9. The discussions focused on how to save funds for the bridging phase and how to participate in the IWC-5.

57. **The meeting discussed, reviewed, and agreed on the following for the proposed SAP demonstration activities:**

- **Defer the Wadden Sea exchange programme to the 2<sup>nd</sup> phase.**
- **Combine SAP demonstration discussions with the 2<sup>nd</sup> Regional Science Conference.**
- **The budget proposed for the SAP discussions and Wadden Sea exchange (USD 80,000) will be used for the bridging phase.**
- **Countries will examine if they have funds for their participants to attend IWC-5.**

58. Considering the possibility of late start of the 2<sup>nd</sup> phase of the project, and difficulties for the participating countries to provide additional funding for the bridging phase, the PMO was instructed to slow down spending for the project implementation in 2009, and to save funds to cover the costs of the bridging phase. The meeting requested the PMO to take necessary actions in consultation with the participating countries and other potential donors, to explore the possibility to raise additional funding to cover the cost of project activities in 2009 and onwards, and/or bridging costs.

59. **Following the extensive discussion and agreements, the meeting accepted the budget and workplans. The agreed budget and workplan are attached as [Annex IV](#) and [V](#) respectively, and will be forwarded to the PSC for approval.**

## 10 OTHER BUSINESS

60. The Chairperson invited participants to raise other issues to discuss.
61. Mr. Jang reminded the meeting on DPRK's willingness to join the on-going project, and necessity to present potential benefits for the country to participate in the project. The meeting requested that when the UNDP-Pyongyang office resumes operation, the PMO will work with UNDP/GEF to find out the situation of the MSP proposal submitted to GEF for capacity building in DPRK.

## 11 NEXT RSTP MEETING

62. The meeting deferred the decision on the venue and dates for the next RSTP Meeting for the 5<sup>th</sup> PSC Meeting to decide. The PMO was also requested to examine



the possibility of holding the meeting back to back with the 2<sup>nd</sup> Regional Science Conference, and also combining the RSTP and PSC meetings into 3 days.

## **12 ADOPTION OF THE MEETING REPORT**

63. The Chairperson led the discussion of the draft meeting report prepared by the Secretariat. The report was reviewed, amended, and adopted by the Meeting.

## **13 CLOSURE OF THE MEETING**

64. Following an exchange of courtesies, the Meeting was closed by the Chairperson at 18:30 on 26<sup>th</sup> November 2008.



## Annex I

### List of Participants

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## Annex II

### List of Documents

#### Working Documents

UNDP/GEF/YS/RSP.5/1	Provisional Agenda
UNDP/GEF/YS/RSP.5/2	Provisional Annotated Agenda
UNDP/GEF/YS/RSP.5/3	Report of the Meeting ( <i>to be prepared at the meeting</i> )
UNDP/GEF/YS/RSP.4/4	Project Implementation Report
UNDP/GEF/YS/RSP.5/5a-b	National Project Co-ordinators' Reports
UNDP/GEF/YS/RSP.5/6a-e	Regional Working Group Chairpersons' Reports
UNDP/GEF/YS/RSP.5/7	Preparations for Project Second Phase
UNDP/GEF/YS/PIF P2	Draft PIF for Project's Next Phase
UNDP/GEF/YS/RSP.5/8	Proposed Budget for 2009 to June 2010
UNDP/GEF/YS/RSP.5/9	Proposed Workplan for 2009 to June 2010

#### Information Documents

UNDP/GEF/YS/RSP.5/inf.1	Provisional List of Documents
UNDP/GEF/YS/RSP.5/inf.2	Provisional List of Participants
UNDP/GEF/YS/RSP.5/inf.3	Provisional Working Programme for the Meeting
UNDP/GEF/YS/RSP.4/3	Report of the "Fourth Regional Scientific and Technical Panel Meeting"
UNDP/GEF/YS/PSC.4/3	Report of the "Fourth Project Steering Committee Meeting for the UNDP/GEF Yellow Sea Project"
UNDP/GEF/YS/SPSC.2/3	Report of the "Second Special Project Steering Committee Meeting for the UNDP/GEF Yellow Sea Project"
UNDP/GEF/YS/RWG-B.5/3	Report of "Fifth Meeting of the Regional Working Group for the Biodiversity Component"
UNDP/GEF/YS/RWG-E.5/3	Report of "Fifth Meeting of the Regional Working Group for the Ecosystem Component"
UNDP/GEF/YS/RWG-F.5/3	Report of "Fifth Meeting of the Regional Working Group for the Fisheries Component"
UNDP/GEF/YS/RWG-I.5/3	Report of "Fifth Meeting of the Regional Working Group for

the Investment Component”

UNDP/GEF/YS/RWG-P.5/3

Report of “Fifth Meeting of the Regional Working Group for the Pollution Component”

Report of “First Session of the Project Phase 2 Working Group”

Report of “Second Session of the Project Phase 2 Working Group”

**Documents submitted to the meeting**

National Project Co-ordinator Reports from China and Republic of Korea

Regional Working Group Chairperson’s Report – Biodiversity, Investment, Pollution

## **Annex III**

### **Agenda**

#### **1 OPENING OF THE MEETING**

- 1.1 Welcome addresses
- 1.2 Introduction of the members

#### **2 ORGANISATION OF THE MEETING**

- 2.1 Election of Officers
- 2.2 Meeting Documents
- 2.3 Organisation of Work

#### **3 ADOPTION OF THE MEETING AGENDA**

#### **4 PROJECT IMPLEMENTATION REPORT**

- 4.1 Implementation of Project Activities
- 4.2 The SAP and SAP Demonstration Activities
- 4.3 Regional Co-operation
- 4.4 Report on the Project Management Office (PMO)
- 4.5 Financial Report

#### **5 REPORTS OF THE NATIONAL PROJECT CO-ORDINATORS**

#### **6 REPORT FROM CHAIRPERSONS OF THE REGIONAL WORKING GROUPS, INCLUDING SAP DEMONSTRATION ACTIVITIES**

- 6.1 Biodiversity
- 6.2 Ecosystem
- 6.3 Fisheries
- 6.4 Investment
- 6.5 Pollution

#### **7 PREPARATION OF DOCUMENTS FOR PROJECT PHASE 2**

- 7.1 Progress-to-date
- 7.2 Actions to Finalise Documents

#### **8 CO-OPERATION WITH OTHER ORGANISATIONS AND PROJECTS**

#### **9 PROPOSED WORKPLAN AND BUDGET FOR 2009 AND ONWARDS**

- 9.1 Proposed Activities
- 9.2 Proposed Project Budget for 2009 and Onwards\
- 9.3 Proposed Workplan for 2009

#### **10 OTHER BUSINESS**

#### **11 NEXT RSTP MEETING**

#### **12 ADOPTION OF THE MEETING REPORT**

#### **13 CLOSURE OF THE MEETING**



**Annex IV**

**Revised Budget for 2009 and Onwards**

**(please refer to 5<sup>th</sup> PSC Meeting Report, Annex V)**



**Annex V**

**Workplan for 2009**

**(please refer to 5<sup>th</sup> PSC Meeting Report, Annex VI)**





## List of Acronyms

COP	Conference of Parties
DPRK	Democratic People's Republic of Korea
GEF	Global Environment Facility
IOC/WESTPAC	Intergovernmental Oceanographic Commission / Sub-commission for the Western Pacific
IW	International Waters
IWC-5	5 <sup>th</sup> GEF International Waters Conference
KORDI	Korea Ocean Research and Development Institute
MLTM	Ministry of Land, Transport and Maritime Affairs
MoU	Memorandum of Understanding
MSP	Medium-Sized Project
NOWPAP	Northwest Pacific Action Plan
NPC	National Project Co-ordinator
NSAP	National Strategic Action Plans
NWG	National Working Group
PEMSEA	Partnerships in Environmental Management for the Seas of East Asia
PICES	North Pacific Marine Science Organization
PIF	Project Identification Form
PMO	Project Management Office
ProDoc	Project Document
PSC	Project Steering Committee
ROK	Republic of Korea
RSTP	Regional Scientific and Technical Panel
RWG – B, E, F, I, P	Regional Working Group – Biodiversity, Ecosystem, Fisheries, Investment, Pollution
SAP	Strategic Action Programme
SHMA	State Hydrometeorological Administration
SOA	State Oceanic Administration - China
TDA	Transboundary Diagnostic Analysis
UNDP	United Nations Development Programme
UNOPS	United Nations Office for Project Services
YSESP	Yellow Sea Eco-region Support Project
YSLME	Yellow Sea Large Marine Ecosystem



**REDUCING ENVIRONMENTAL STRESS  
IN THE YELLOW SEA  
LARGE MARINE ECOSYSTEM**

**Report of the Fifth Meeting of the  
Project Steering Committee  
UNDP/GEF Yellow Sea Project**

**Shanghai, China, 27-28 November 2008**





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**UNDP/GEF PROJECT ENTITLED “REDUCING ENVIRONMENTAL STRESS IN THE  
YELLOW SEA LARGE MARINE ECOSYSTEM”**

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UNDP/GEF/YS/PSC.5/3  
Date: 28 November 2008  
English only

**Fifth Meeting of the Project Steering Committee  
for the UNDP/GEF Yellow Sea Project**  
*Shanghai, China, 27-28 November 2008*

**Report of the Meeting**



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Annex I	List of Participants
Annex II	List of Documents
Annex III	Agenda
Annex IV	Project Implementation Report
Annex V	Approved Budget for 2009 and Onwards
Annex VI	Approved Workplan for 2009





## **1. OPENING OF THE MEETING**

### **1.1 Welcome addresses**

- 1.1.1 On behalf of the UNDP/GEF, Ms. Anna TENGBERG opened the meeting. She congratulated the Project on producing significant outputs since the last Project Steering Committee (PSC) meeting, including the implementation of co-operative cruises and joint regional fish stock assessment and the finalisation of the Strategic Action Programme (SAP). She briefly mentioned the agenda for this meeting, pointing out that participants would be invited to review and approve the report together with the budget proposed by the Regional Scientific and Technical Panel (RSTP). Ms. Tengberg informed the meeting that the UNDP/GEF was fully satisfied with the progress made during the past years of Project implementation, noting that UNDP's project implementation report rated the Project as highly satisfactory.
- 1.1.2 On behalf of the Government of China, Mr. Zhanhai ZHANG welcomed all participants to the meeting. He indicated that during the last inter-sessional period, the project had many notable achievements, including the SAP preparation, the co-operative cruise implementation, and the joint regional fishery stock assessment. Having noted that the Project started preparing for its second phase, Mr. Zhang expressed his gratitude toward participating countries and Project Management Office (PMO) that made efforts to prepare relevant documents, such as the draft Project Identification Form (PIF). He hoped that this meeting would have a fruitful discussion on the next phase to further its preparation.
- 1.1.3 On behalf of the Government of Republic of Korea (ROK), Mr. Haeryong KWON welcomed all participants, particularly the delegation from China, the observers from DPRK, and the PMO. Mr. Kwon then appreciated a strong support provided by the UNDP/GEF and UNOPS for the successful implementation of the Project. He expressed satisfaction with the outcome of Project implementation since last year, including the SAP development, the cruise implementation, and the second phase preparation. Mr. Kwon believed that these major achievements represented the spirit of co-operation between the participating countries, and hoped that the countries would continue to maintain this co-operative relationship.
- 1.1.4 Mr. Hyon Chol JANG of State Hydrometeorological Administration (SHMA)-DPRK, kindly requested by Mr. Gang Ho MA, Head of the delegation, thanked all participants for inviting Democratic People's Republic of Korea (DPRK) to the meeting. He informed participants that two workshops, one on the Transboundary Diagnostic Analysis (TDA) and SAP process and another on environmental pollution monitoring and assessment, were successfully implemented in 2008. He expressed his gratitude toward relevant organisations which made the workshops possible. Mr. Jang then stated the country's strong interest and willingness to be fully involved in the on-going Project and hoped that the second phase would be realised with the DPRK as a full member of the Project.

### **1.2 Introduction of the members**

- 1.2.1 The participants were invited to give self-introductions. A list of participants is attached as [Annex I](#) to this report.

## **2. ORGANISATION OF THE MEETING**

### **2.1 Election of Officers**

- 2.1.1 Ms. Tengberg invited the participants to nominate Chairperson and Vice Chairperson for the meeting.
- 2.1.2 Mr. Yihang JIANG, Project Manager, informed the meeting that the venue of this meeting originally planned to be organised in ROK. In order to facilitate the participation of DPRK, all members of the PSC agreed to have the meeting in Shanghai. According to the practical arrangement, the Chairperson would be from ROK. The meeting agreed the suggestion made by Mr. Jiang and nominated Mr. Kwon, Head of the ROK delegation, to be the Chairperson of the meeting, following the practice that the meetings were chaired by the participating countries in turn.
- 2.1.3 Mr. Kwon nominated Mr. Zhanhai Zhang, National Project Co-ordinator for China, to be the Vice Chairperson of the meeting.
- 2.1.4 The Meeting agreed with these nominations, and Mr. Kwon and Mr. Zhang were elected as the Chairperson and Vice Chairperson, respectively.
- 2.1.5 The PMO served as Rapporteur and Secretariat.

## **2.2 Documentation Available to the Meeting**

- 2.2.1 Chairperson invited the Secretariat to introduce the documents prepared for the meeting.
- 2.2.2 Mr. Isao ENDO introduced two kinds of documents, working documents and information documents, for the meeting. The working documents were for consideration and approval, while the information documents were for reference. The list of documents is attached as [Annex II](#) to this report.

## **2.3 Organisation of Work**

- 2.3.1 Chairperson invited Secretariat to introduce the meeting organisation document.
- 2.3.2 Referring to Document UNDP/GEF/YS/PSC.5/inf.3, Mr. Endo informed the meeting that the provisional working programme would act as a flexible guide to the procedure of the meeting.
- 2.3.3 The Meeting agreed on the proposed programme, and the meeting was organised in plenary. Sessional working groups and consultative discussions were held as necessary.
- 2.3.4 The meeting was conducted in English.

## **3. ADOPTION OF THE MEETING AGENDA**

- 3.1 Chairperson introduced the Provisional Agenda (Document UNDP/GEF/YS/PSC.5/1) and the Provisional Annotated Agenda (Document UNDP/GEF/YS/PSC.5/2), and invited participants to provide comments on them.
- 3.2 There was a suggestion to discuss the involvement of DPRK in Agenda 9: Other business. The Meeting agreed on this suggestion, and relevant issues were discussed accordingly.

- 3.3 The Meeting **adopted the agenda with the modification**, which is attached as [Annex III](#) to this report.

#### 4. PROJECT IMPLEMENTATION REPORT

##### Project Implementation

- 4.1 Project Manager and the staff members presented the Project Implementation Report (Document UNDP/GEF/YS/RSP-PSC.5/4; Annex IV), highlighting some of the major achievements over the past year. The Report included the following:

- Project implementation in 2008;
- Financial report;
- Report on PMO;
- Co-operation with other organisations and projects;
- Challenges to project implementation; and
- Recommendations.

- 4.2 Additional details were provided as follows.

##### Project implementation

- Two co-operative cruises were successfully implemented in January and July 2008, and joint regional fisheries stock assessment (four cruises) were organised with comparable methods. The implementation of these research activities not only provided solid scientific basis for better resource management, but also strengthened the co-operation between China and ROK.
- The SAP was finalised and approved by the PSC. Employing the ecosystem-based approach, the SAP provided tangible regional targets (e.g. 25-30% reduction of fishing boats) and management actions that were technically feasible and politically and socially acceptable to achieve the targets.
- More than a dozen demonstration activities are being conducted to show the efficacy of some of the key management actions.
- Planning for the Project's second phase has been on-going. The Phase 2 Ad-hoc Working Group was formed, and two working sessions were organised. As a result, detailed activities for the second phase were identified, and a draft PIF was prepared.
- Following the instructions from the PSC, further efforts were made to involve the DPRK in the project activities. The following activities were carried out with financial support secured from the participating countries: the Training Course on Analysis of Metals and Nutrients in Marine Environment and the Workshop on Introduction of the TDA and SAP Concepts.
- In addition to the demonstration projects, activities under each Project Component were implemented as agreed by the PSC. Detailed information about each activity was provided in the report.

- Regional partnership was strengthened with relevant organisations and projects, including the Ministry of Land, Transport and Maritime Affairs (MLTM), ROK; the Northwest Pacific Action Plan of UNEP; and the Ramsar Conference of the Parties (COP) through exchanging MoUs and implementing co-operative activities.
- Challenges to project implementation were mentioned, and recommendations to overcome the challenges were given as listed in the report.

#### Financial report

- The 2008 Expenditure Report with total expenditure of over USD 4 million was reported. The increase in activities, particularly planning for the project's next phase, was not in the original budget, but approved by the Special PSC and implemented with savings from completed activities.
- Additional co-financing from ROK and China were reported. ROK provided USD 125,000 for capacity building and National Strategic Action Plan activities. China provided about USD 100,000 for the co-operative cruises.
- Project implementation reports were submitted regularly to UNDP/GEF, UNOPS, and UNDP ROK office. The external audit, conducted in 2008, provided the Project with the result that stated satisfaction in term of financial operation of the Project.

4.3 After the presentation by the PMO, participants expressed their high satisfaction to the project implementation since the last PSC meeting. They exchanged their views and opinions, suggesting recommendations to improve Project implementation. Major suggestions included the following:

- The next Project Implementation Report to the Steering Committee should describe progress made against the objectives of the Project that are described in the Project Document. Clear indication of the progress in Project implementation according to the Project objectives would contribute to the better Project management under the current phase and facilitate terminal evaluation.
- More efforts should be made so that the findings from Project's scientific activities would be published in internationally-recognised scientific journals. That would provide incentives for regional scientists to participate more actively in the Project's activities.
- The mirror site of the Regional GIS Databases should be established in ROK under the current phase. The MLTM would explore the possibility of securing necessary funding to support this activity. In relation to this, the PMO and the China-Korea Joint Ocean Research Center agreed to fully co-operate including providing necessary technical assistance and information.
- It was recommended that the independent terminal evaluation be undertaken in the first half of 2010 at the latest.
- Inter-ministerial co-ordination should be further strengthened. As the SAP advocates the ecosystem-based approach addressing environmental issues holistically, co-operation among all relevant ministries, including the ones in

charge of finance, industry, environment, and agriculture will become more important for the successful implementation of the SAP.

- 4.4 Having explained the history of co-operation between the WWF/Yellow Sea Ecoregion Support Project and the YSLME Project, Mr. Sadayoshi TOBAI informed the meeting that the two projects created a common framework to protect habitats in the Yellow Sea. The PMO played an important role in facilitating the discussion between WWF, First Institute of Oceanography, and ROK scientists. Mr. Tobai mentioned that the WWF would provide technical expertise and financial contribution to strengthen the activity of improving management effectiveness.
- 4.5 After all questions raised by the participants were duly answered, the Meeting thanked the PMO for their work, and **adopted the Project Implementation Report.**

## **5. REPORT FROM THE CHAIRPERSON OF THE RSTP ON THE OUTCOMES OF THE 5TH MEETING OF THE REGIONAL SCIENTIFIC AND TECHNICAL PANEL (RSTP)**

- 5.1 Referring to Document, UNDP/GEF/YS/RSP.5/3, Mr. Hyung-Tack HUH, Chairperson of the fifth RSTP meeting, informed the PSC members on the agreements and recommendations made by the RSTP, regarding:
- Project Implementation Report;
  - Reports of National Project Co-ordinators;
  - Reports from Chairpersons of Regional Working Groups;
  - Preparation of Documents for Project Phase 2;
  - Co-operation with other organisations and projects;
  - Proposed Workplan and Budget for 2009 and Onwards; and
  - Date & Venue for 6th RSTP.
- 5.2 Mr. Jiang provided additional information about the organisation of next RSTP/PSC meetings. The RSTP suggested two options: (i) to organise the RSTP meeting, the PSC meeting, and the Regional Science Conference back to back and (ii) to combine the RSTP and PSC meetings into three days in total. With the preparation of meeting agenda, the PMO would identify an appropriate format and dates of organising the next RSTP/PSC meeting(s) in consultation with the PSC members.
- 5.3 Having noted the information provided by Mr. Huh and Mr. Jiang, the Meeting appreciated the Chairperson of the RSTP meeting for his excellent work in leading the meeting to provide significant outputs. The Meeting **adopted the Chairperson's report on the outcomes of the fifth RSTP meeting.**

## **6. ENDORSEMENT OF THE STRATEGIC ACTION PROGRAMME (SAP)**

- 6.1 Project Manager updated the meeting of the latest development on this agenda item as follows. A formal endorsement letter of the SAP was received from the GEF Focal Point of ROK. Meanwhile, China completed the first consultation with relevant ministries, and comments were gathered. The State Oceanic Administration (SOA) would organise the second consultation to address the issues. According to the information from the SOA, Mr. Fengkui Liang mentioned that there would be no major problem or obstacles to be expected for the SAP endorsement in China, although the consultation with the ministries might require a little more time.

- 6.2 The delegations from ROK and China felt that the SAP signing ceremony was important for current and future path of the Project; therefore, the ceremony should be organised. The Meeting agreed on this suggestion and **requested the countries and the PMO to explore an opportunity to have the ceremony.**
- 6.3 There was an intensive discussion about obtaining the DPRK's support to the SAP in writing. Participants felt that the support would greatly contribute to realising the Project's second phase by showing the dedication of all the littoral counties to the SAP implementation. After views and comments on this matter were fully exchanged, the Meeting **instructed the PMO to consult with the DPRK on a possibility and an appropriate form of expressing the country's support to the SAP.**

## **7. PREPARATION OF THE RELEVANT DOCUMENT FOR THE IMPLEMENTATION OF SAP – 2ND PHASE OF THE PROJECT**

- 7.1 Project Manager reported on the progress in the preparation of the Project's second phase, referring to Document UNDP/GEF/YS/RSP-PSC.5/7. Mr. Jiang informed the meeting that following the suggestion by the Second PSC Meeting, an ad hoc working group was established, and two working sessions of the group were convened. At the working sessions, the group discussed activities, budgets, and co-financing resources required under the next phase; as a result, the draft PIF was produced. The draft PIF, with the Table of Activities, was then submitted for the fifth RSTP meeting for its consideration. The RSTP recommended the PSC to aim at finalising the PIF in April 2009 with the full Project Document drafted before the sixth PSC meeting, as reported by the Chairperson of the RSTP meeting and described in Document, UNDP/GEF/YS/RSP.5/3.
- 7.2 Ms. Tengberg informed the meeting that the Project should aim at GEF's 5th replenishment. It was confirmed that the GEF 5's funding would be available as early as July 2010, if negotiations with donors were completed as scheduled. The PIF could not be submitted officially until April 2010. If the GEF approved the PIF, the Project Document could be submitted in July 2010. The funds would be available in September 2010 at the best scenario if the PIF is approved. The focal area strategies for GEF5 are being revised and funding priorities may change slightly. However, SAP implementation will most likely remain a priority.
- 7.3 The DPRK delegation informed the meeting that the communication between relevant organisation of the country with PMO was not convenient. In particular, if DPRK fully participate in the second phase of the project, it is appropriate to improve the communication between DPRK and PMO. The meeting was suggested to consider the possibility of relocating the PMO to a place where it is convenient to all participating countries. Following some discussions on the suggestion, the Meeting **instructed the PMO to carry out consultation with concerned parties on improvement of communication for the Project implementation in the second phase, and report the result of consultation to all relevant parties.**

## **8. PROPOSED WORKPLAN AND BUDGET FOR 2009 AND ONWARDS**

- 8.1 Project Manager introduced the budget and workplan for 2009 and onwards. The RSTP discussed this issue and created the proposed budget and workplan for the PSC's consideration. Mr. Jiang explained that some adjustments were made to save funds for the Project's transition period to the second phase. Those adjustments included combining SAP demonstration discussions with the second Regional

Science Conference and deferring the Wadden Sea exchange programme to the Project's second phase. Mr. Jiang mentioned that the RSTP recommended that the PMO slow down spending during Project implementation in 2009. The RSTP requested the PMO to negotiate with the governments for providing financial support for covering bridging costs. Given the fact that the second phase could start in September 2010 at the earliest, the meeting need to consider possible extension of the Project to the end 2010 with no additional costs to the GEF budget.

- 8.2 Mr. Andrew MENZ suggested that if the additional extension of the Project period were sought, the PMO should examine the current Project Document and ensure all the objectives could be met. The objectives of the first phase should not be compromised to save funding for the second phase, while efforts should be made to save budgets as much as possible to finance the bridging costs.
- 8.3 Having noted and satisfied with the explanations made, the Meeting **adopted the budget and workplan for 2009 and onwards as proposed by the RSTP** which are attached as [Annex V](#) and [Annex VI](#), respectively. The Meeting **agreed, in principle, to extend the Project period to the end of 2010 with no additional funding requested from the GEF. The PSC should review the situation at next meeting.**
- 8.4 With respect to the transition from the planning stage to the implementation stage of the SAP, participants exchanged lessons learned from similar regional GEF projects. Mr. Menz pointed out that the transition process could take longer than anticipated and noted that it was commendable that preparation for the next phase had already begun. Taking the PEMSEA's case as an example, Ms. Tengberg mentioned that cash contributions from the participating countries should be sought to cover partial costs of transition period. Such contributions would show the countries' commitments to the second phase that would help in securing the support from the GEF.
- 8.5 Considering the lessons of similar regional projects, the Meeting **invited the countries to explore all possible ways to provide cash contributions for the transitional period.** The Meeting also **requested the PMO to slow down spending as the RSTP suggested and to prepare a document describing estimated bridging costs by early next year.**

## 9. OTHER BUSINESS

### DPRK involvement

- 9.1 Project Manger provided the meeting with non-paper regarding the DPRK's involvement in the Project. The non-paper consisted of mainly three parts: (i) major actions and agreements since the first PSC meeting, (ii) current situation, and (iii) consideration of relevant capacity building activities in the second phase.
- 9.2 Noted the information provided by the Project Manager, the meeting **instructed the PMO to work closely with all relevant stakeholders and to explore necessary financial resources for the DPRK to join the Project activities such as capacity building.** The Meeting **requested the UNDP/GEF to follow up on the MSP proposal submitted to the GEF and to inform the PMO of the status and progress.** The Meeting also **requested the UNDP/GEF to follow up on the related Yalu river project proposal and report back to the countries involved.**

### Co-operation with other organisations

- 9.3 Mr. Wenxi ZHU thanked the PSC for inviting the IOC/WESTPAC to the meeting. Having remembered the strong political will shown at the Project's launching ceremony by the governments in China and ROK, Mr. Zhu reminded the meeting that the Project would greatly contribute to make the Yellow Sea as the Sea of Friendship and the Sea of Peace. Mr. Zhu hoped that the countries, keeping in mind the co-operative spirit in mind, would further the implementation of the SAP, and that the Project would strengthen the co-operation with relevant regional organizations, especially IOC/WESTPAC. The IOC/WESTPAC, Mr. Zhu emphasised, would make efforts to support the Project, believing that would be beneficial not only to the Project's three participating countries, but also to the all IOC/WESTPAC member countries.

#### Next PSC Meeting

- 9.4 The participants exchanged their opinions regarding the organisation of the next PSC meeting. The recommendations made by the RSTP as well as other relevant events scheduled in 2009 were fully considered. The Meeting then **decided to organise the sixth PSC meeting such that: To combine the RSTP and PSC meetings into one meeting, and organise the sixth RSTP/PSC meeting in 3 days.** The first day of the meeting is for technical discussion to produce recommendations for PSC for approval. The second and third days are for discussion on policy issues.
- 9.5 With regard to the venue for the next PSC meeting, the Meeting **requested the PMO to explore an appropriate venue where all the participating countries, including the DPRK, can participate.** The final decision will be made via correspondence.
- 9.6 The Meeting **decided to organise the combined RSTP/PSC meeting from 17 to 19 November 2009.**

## **10. ADOPTION OF THE MEETING REPORT**

- 10.1 The Chairperson invited the participants to review the draft meeting report prepared by the Secretariat. **The draft report was discussed, amended, and adopted by the Meeting.**

## **11. CLOSURE OF THE MEETING**

- 11.1 Having summarised major outputs of the meeting, the Chairperson thanked all participants for their hard work. Mr. Kwon believed that the spirit of co-operation shown by the participating countries enabled the meeting to produce important decisions. He mentioned that the meeting successfully provided recommendations to address problems and challenges in Project implementation. The stakeholders showed positive signals for the Project to move forward. Mr. Kwon hoped the efforts would be strengthened so that the Project would continue to improve the ecosystem of the Yellow Sea and to facilitate the sustainable use of its marine resources.
- 11.2 Mr. Zhanhai Zhang thanked the Chairperson for leading the meeting to its successful implementation. He thought that the discussion was fruitful and productive. He thanked the delegations from all the participating countries for their hard work. He thanked the Polar Research Institute of China for its administrative support to organise the meeting. Mr. Zhang wished a bright future for the Project and hoped that its second phase would be realised.



- 11.3 Being satisfied with what the meeting achieved, Mr. Yoo expressed his gratitude to all the participants. He extended his thanks to China for understanding and respecting the stance and opinions of the ROK. He thanked the PMO for hard work and preparation for the meeting.
- 11.4 Mr. Jang expressed his thanks to the participants, especially China and the PMO. He thanked the Polar Research Institute for its assistance to organise the meeting.
- 11.5 Chairperson declared the conclusion of the meeting. The meeting was closed at 12:00 p.m. on 28<sup>th</sup> November 2008.



## Annex I

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## Annex II

### List of Documents

#### Working Documents

UNDP/GEF/YS/PSC.5/1	Provisional Agenda
UNDP/GEF/YS/PSC.5/2	Provisional Annotated Agenda
UNDP/GEF/YS/PSC.5/3	Report of the Meeting ( <i>to be prepared at the meeting</i> )
UNDP/GEF/YS/RSP-PSC.5/4	Project Implementation Report
UNDP/GEF/YS/RSP.5/3	Report of the "Fifth Regional Scientific and Technical Panel Meeting"
UNDP/GEF/YS/RSP-PSC.5/7	Preparations for Project Second Phase
UNDP/GEF/YS/PIF P2	Draft PIF for Project's Next Phase
UNDP/GEF/YS/RSP.5/8	Proposed Budget for 2009 to June 2010
UNDP/GEF/YS/RSP.5/9	Proposed Workplan for 2009 to June 2010

#### Information Documents

UNDP/GEF/YS/PSC.5/inf.1	Provisional List of Documents
UNDP/GEF/YS/PSC.5/inf.2	Provisional List of Participants
UNDP/GEF/YS/PSC.5/inf.3	Provisional Working Programme for the Meeting
UNDP/GEF/YS/RSP.4/3	Report of the "Fourth Regional Scientific and Technical Panel Meeting"
UNDP/GEF/YS/PSC.4/3	Report of the "Fourth Project Steering Committee Meeting for the UNDP/GEF Yellow Sea Project"
UNDP/GEF/YS/SPSC.2/3	Report of the "Second Special Project Steering Committee Meeting for the UNDP/GEF Yellow Sea Project"
UNDP/GEF/YS/RWG-B.5/3	Report of "Fifth Meeting of the Regional Working Group for the Biodiversity Component"
UNDP/GEF/YS/RWG-E.5/3	Report of "Fifth Meeting of the Regional Working Group for the Ecosystem Component"
UNDP/GEF/YS/RWG-F.5/3	Report of "Fifth Meeting of the Regional Working Group for the Fisheries Component"
UNDP/GEF/YS/RWG-I.5/3	Report of "Fifth Meeting of the Regional Working Group for the Investment Component"

UNDP/GEF/YS/RWG-P.5/3

Report of "Fifth Meeting of the Regional Working Group for the Pollution Component"

Report of "First Session of the Project Phase 2 Working Group"

Report of "Second Session of the Project Phase 2 Working Group"



## **Annex III**

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- 1.1 Welcome addresses
- 1.2 Introduction of the members

#### **2. ORGANISATION OF THE MEETING**

- 2.1 Election of Officers
- 2.2 Meeting Documents
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- 4.1 Implementation of Project Activities
- 4.2 Implementation and Outcomes of the Co-operative cruise
- 4.3 Preparation of SAP and SAP Demonstration Activities
- 4.4 Co-operation with other Organisations and Projects
- 4.5 Report on the Project Management Office (PMO)
- 4.6 Financial Report

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- 5.1 Summary of national and regional project implementation
- 5.2 Implementation of SAP Demonstration Activities
- 5.3 Regional GIS and meta databases
- 5.4 Co-operative cruises
- 5.5 Regional Fishery Stock Assessment
- 5.6 Preparation of relevant documents for the 2<sup>nd</sup> phase of the project

#### **6. ENDORSEMENT OF THE STRATEGIC ACTION PROGRAMME (SAP) [POSSIBLY A SIGNING CEREMONY IF ENDOSEMENTS RECEIVED FROM ALL PARTICIPATING COUNTRIES.**

#### **7. PREPARATION OF THE RELEVANT DOCUMENT FOR THE IMPLEMENTATION OF SAP – 2<sup>ND</sup> PHASE OF THE PROJECT**

#### **8. PROPOSED WORKPLAN AND BUDGET FOR 2009 AND ONWARDS**

- 8.1 Proposed Project Activities
- 8.2 Proposed Project Budget for 2009 and Onwards
- 8.3 Proposed Workplan for 2009

#### **9. OTHER BUSINESS, INCLUDING THE INVOLVEMENT OF DPRK**

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**Project Implementation Report**



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## 1 INTRODUCTION

1. With the full participation and close co-operation of all parties of the project, the implementation of the project activities in 2008 has marked milestones in the protection of marine environment in the Yellow Sea.
2. ***Co-operation mechanism strengthened.*** During the implementation of the project activities since the last PSC met, the co-operation mechanism among the governments of the participating countries has been strengthened. Some critical agreements for implementation of important project activities have been reached, including the agreement on co-operative cruises, joint regional stock assessments and the SAP. The participating governments have showed their high intentions in protecting marine environment and sustainable use of marine and coastal resources, strong co-operative spirit and high flexibilities in the negotiation of some sensitive issues. At the same time, the co-operation mechanism with NGOs has also achieved substantive progress during 2008. There were several important activities organised to involvement DPRK in the project, with financial support from the participating countries.
3. ***Strategic Action Programme prepared and agreed.*** As one of the most important project outcomes, the Strategic Action Programme was prepared and agreed upon by the PSC at its second special meeting. The ecosystem-based approach used in the SAP produced the first action plan of its kind within the GEF projects. With tangible targets identified, dedicated actions proposed and the YSLME Commission as the implementation mechanism, the SAP document paves a solid foundation for protection of the marine environment in the Yellow Sea.
4. ***Co-operative cruise organised with important data and information collected.*** With final agreement by the governments of participating countries, co-operative cruises were organised in winter and summer. A launching ceremony was organised with participation of governmental officers at vice-minister level, and UNDP representatives and representatives from local governments of the provinces bordering the Yellow Sea. The co-operative cruises have collected useful data and information to show the basin-wide situation in the Yellow Sea, including the impacts of climate change to the marine ecosystem in the Yellow Sea.
5. ***Considerations of implementation of SAP.*** With the agreement on the SAP, the PSC instructed the PMO to start the preparation of the relevant documents to apply for the 2<sup>nd</sup> phase of the project: the implementation of SAP. Necessary activities have been organised. This initiative indicated the readiness of the participating countries to engage themselves in the systematic actions to improve the marine ecosystem in the Yellow Sea. China is exploring possibilities to provide co-financial resources for the next phase. ROK expressed its willingness to provide financial support for the implementation of SAP, as the country is no longer eligible for the GEF funding. DPRK is positively considering its participation in the project.

## 2 MAJOR ACHIEVEMENTS SINCE THE LAST MEETING

### 2.1 Co-operative Cruises Successfully Implemented

6. The 12<sup>th</sup> January 2008 was a memorable day for the project, as the co-operative cruises between China and Republic of Korea got underway after numerous negotiations and discussions on this activity. A "Cruise Launching Ceremony" was

organized by State Oceanic Administration (SOA), China, and its North Sea Branch in Qingdao, China, on 12<sup>th</sup> January 2008 with speeches given by:

- High-level government officials from China and Republic of Korea: Dr. LEE In Soo, Commissioner, Korea Maritime Safety Tribunal, MOMAF, Mr. WANG Fei, Deputy Administrator, SOA;
  - Mrs. Alessandra Tisot, Senior Deputy Resident Representative, UNDP Beijing;
  - Prof. ZHU Mingyuan, Co-Chief Scientist of the Cruise; and
  - Mr. JIANG Yihang, Project Manager;
7. The ceremony was attended by numerous scientists from China and Republic of Korea, the research vessel's crew and on-board scientists (Fig. 1), and North Sea Branch naval officers. Provincial and city government officials from the Ocean and Fisheries Bureau of Shandong and Liaoning Province, as well as Qingdao and Dalian City were present to show their support for the project and the co-operative cruise (Fig. 2).
8. The winter cruise was carried out during January 2008. Despite the harsh winter weather, and many days of ports calls to avoid strong winds at sea, the 19 scientists from Republic of Korea and China on board the Hai Jian 17 Research Vessel, belonging to SOA's North Sea Branch, were able to carry out surveys in the Yellow Sea for 22 days. Plankton, sediment, benthos, and water samples were collected and were analysed for nutrients, organics, trace metals, sediment profile, and taxonomic composition of plankton, zooplankton, benthic organisms, pigments, and bacteria. Results were presented in May and during the 5<sup>th</sup> RWG-E and RWG-P Meetings:
- Chl-a concentration was observed to have very high values overall, about 3 times higher than normally expected winter values; however the results were comparable to HPLC pigment values.
  - A comparison of China and ROK's phytoplankton species from water samples showed that the data from China contained more dinoflagellates, while the data from ROK contained more diatoms.
  - Inter-comparison of macrobenthos taxonomical results revealed some differences between China and ROK.
  - The <sup>210</sup>Pb profiles for deposition rates of C, N, and P were shown to be higher compared to other studies.
9. The summer cruise was successfully held in July 2008. Seven scientists from Republic of Korea and 14 scientists from China boarded the "Xiang Yang Hong 9" research vessel and completed their survey of 37 sampling stations. Similar to the winter co-operative cruise held in January, samples of plankton, benthos, and water samples were collected and are now being analysed for nutrients, organics, trace metals, taxonomic composition of plankton, zooplankton, benthic organisms, pigments, and bacteria (Figs. 3-5). Results are available starting in October. Preliminary results showed some typhoon effects on seawater temperature. As a final product of this activity, regional cruise reports will be compiled by the Chief Scientists once all results are in.
10. All differences in, and non-comparable results are under-going further investigation. Data continue to be exchanged between the various groups in order to harmonise these differences. A final review of results will be carried out next year, with the ultimate results presented in a regional cruise report that will be prepared by the Chief Scientists.



- 11. Besides acquiring new knowledge, the co-operative cruises marked an important historical event for the region. As many of the Yellow Sea’s environmental problems are transboundary, this activity required the efforts of all players (countless people in the governments, research institutes, Project Management Office) in the region to overcome these troubles. The co-operative spirit of the littoral countries has allowed the first joint basin-wide survey of the Yellow Sea to be realised.



Figure 1. The on-board scientists for the winter cruise.



Figure 2. Launching ceremony for the co-operative cruises.



Figure 3. Water sampling.



Figure 4. Benthic organisms collected.



Figure 5. Jellyfish observation during the summer cruise.

## 2.2 Joint Regional Fisheries Stock Assessment

12. The Joint Regional Stock Assessment activity was conceived during the 4<sup>th</sup> RWG-Fisheries meeting to compensate for the lack of the fisheries involvement in the Co-operative Cruises. The differences in growth rates and size at maturity of certain fish species reported by the two countries had emphasised the need for a mechanism to harmonise the stock assessment techniques in the region. Working in collaboration, scientists from the Yellow Sea Fisheries Research Institute and West Sea Fisheries Research Institute discussed how to harmonise the methodology and gears used for fisheries stock assessment. During this 1<sup>st</sup> Stock Assessment Workshop (SAW), plans for the 1<sup>st</sup> joint regional stock assessment surveys were finalised and agreement was reached on a harmonised methodology, standardised data formats for exchange and the use of comparative trawling gears deployed behind the national research vessels.
13. The 1<sup>st</sup> stock assessment surveys successfully took place in May 2008; the results were presented at the 2<sup>nd</sup> SAW and the 5<sup>th</sup> meeting of RWG-Fisheries. Initial results suggested that larger mature small yellow croaker is more frequently caught in the Eastern Yellow Sea during the spawning season in May. The differences are less pronounced for Japanese anchovy although larger mature anchovy are more prevalent in the Western Yellow Sea in this season (Figure 6).

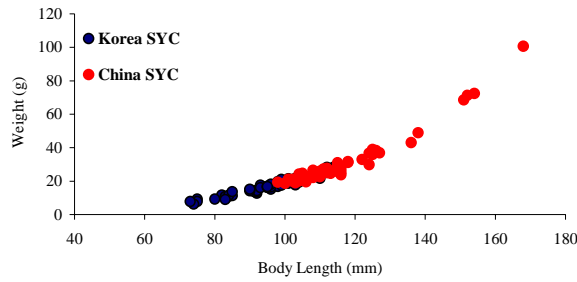


Fig 6a: Relationship between body length (mm) and weight (g) in small yellow croaker landings from R. Korea and China.

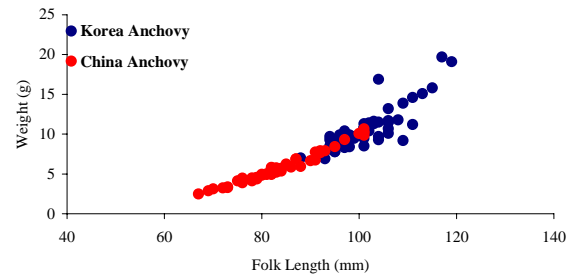


Fig 6b: Relationship between fork length (mm) and weight (g) in anchovy landings from R. Korea and China.

14. The survey revealed that the small yellow croaker was distributed in accordance with the spawning grounds (Figure 7) and a similar distribution was recorded for the anchovy (Figure 8).

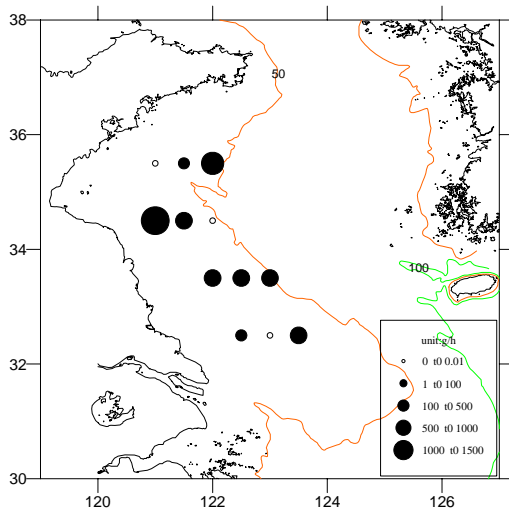


Fig. 7a: Catch distribution of small yellow croaker in Chinese survey.

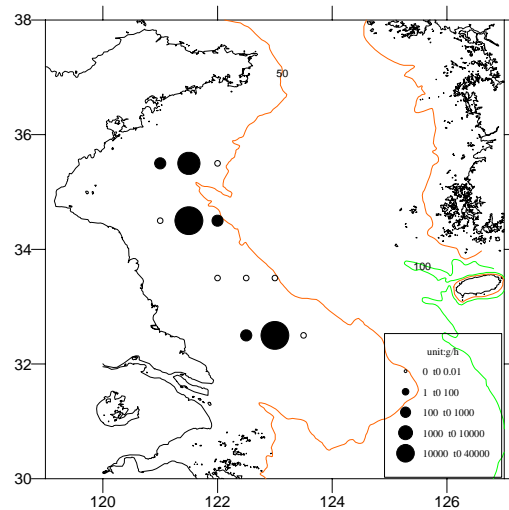


Fig 8a: Catch distribution of Japanese anchovy in Chinese survey.

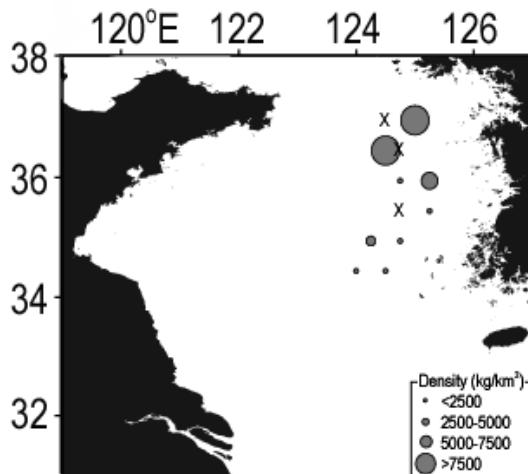


Fig. 7b: Catch distribution of small yellow croaker in R. Korea survey.

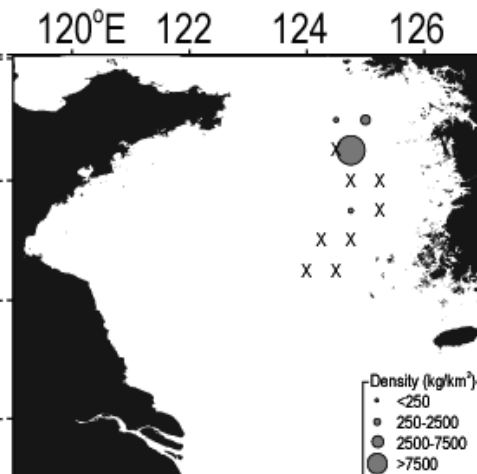


Fig 8b: Catch distribution of Japanese anchovy in R. Korea survey.

15. During the 2<sup>nd</sup> SAW, members refined the sampling strategy and data exchange mechanisms, selected the 5 target species to be analysed and finalised the data calibration techniques. To further standardise methodology in ageing and stomach

content analysis, an exchange of experts between these institutions was successfully instigated (please see fisheries report for outcomes).

16. This activity has made major steps forward in increasing the trust and mutual understanding between fisheries scientists in these 2 countries, as well as enhancing the co-operative mechanism for regional monitoring and observation. It has developed regionally agreed methods of observation, monitoring and sampling fish stocks and will contribute to a better understanding of these selected fisheries and provided momentum for future joint regional stock assessments.

### 2.3 Finalisation of the Strategic Action Programme, including PSAA

17. To address transboundary environmental problems in the Yellow Sea, identified by the TDA, the Project developed the SAP. Introducing an ecosystem-based approach, the SAP not only set regional management targets, but also devised management actions to achieve the targets. With the implementation of these actions that consisted of both technical and governance actions, the “ecosystem carrying capacity (ECC)” of the Yellow Sea will improve and thereby continue to provide the ecosystem services (Figure 9).

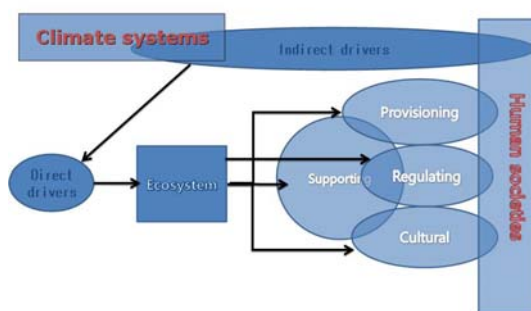


Fig 9: Relationship of ecosystem, ecosystem services, direct and indirect drivers, human societies, and climate system.

18. Several characteristics made the YSLME SAP unique compared to other SAPs. Firstly, the YSLME SAP employed the ecosystem-based approach rather than the traditional sector approach (Figure 10). This innovative approach would help in targeting multiple ecosystem services holistically to sustain the ECC of the Yellow Sea. Secondly, the SAP provided concrete and measurable targets such as the 25-30% reduction in fishing efforts. Lastly, the SAP proposed mechanisms for regional co-ordination and co-operation, including the YSLME Commission.

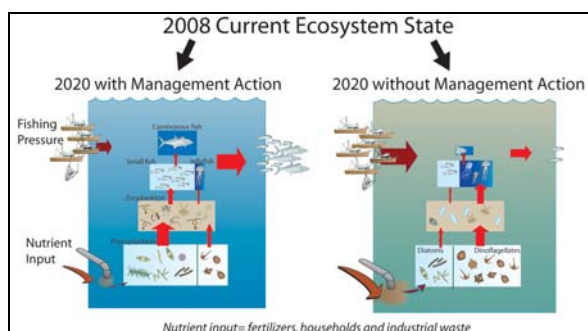


Figure 10: A simplified overview of the state of the ecosystem in 2020 with and without management actions.

19. To ensure the concerns of all stakeholders were addressed in the SAP, the following seven events were organised in 2007 and 2008: a consultation meeting, two drafting group meetings, three ad-hoc working group meetings, and the Special PSC

Meeting. Participants of those meetings included regional scientists, government officials, and other relevant stakeholders such as NGOs.

20. The special PSC meeting (Hangzhou, China, 8 May 2008) reviewed and approved the SAP as the final draft to be submitted to the participating governments for their consideration and endorsement. The final draft SAP was sent in May 2008 for NPCs as well as the members of the PSC to process the draft internally to secure endorsements from the participating countries.
21. To facilitate the government endorsement of the SAP, the Project conducted a Political and Social Acceptance Analysis in co-operation with the Korea University and the Ocean University of China. The PSAA analysed: (i) appropriateness of the management actions, (ii) consistency of the management actions with national policies and guidelines, and (iii) main problems, if any, in endorsing the SAP. Then, the PSAA recommended practical and concrete suggestions to address the problems. The results of the PSAA will be used as a reference to support the approval of the SAP.

#### **2.4 SAP demonstration activities**

22. SAP demonstration activities were proposed by all RWGs during the 4<sup>th</sup> Meeting in 2007 where each group based their recommendations after reviewing the management actions proposed in the draft SAP. Most of the Request for Proposal was advertised during the first half of this year, and a number of interested bidders replied. Activities for Biodiversity do not follow the same schedule as other components because the critical habitats and selection of demonstration sites had to first be done, which was completed during the middle of this year.
23. Following evaluation of all proposals, SAP demonstration activities were selected for implementation as listed in Table 1.
24. Targeting some of the key demonstration activities mentioned above, cost-benefit analyses will be conducted. It is expected that the CBA studies will display how economic analyses can be used for better ecosystem management with the cost-benefit information of the activities examined. Economic analyses will help governments and decision-makers choose or design management actions that will contribute to sustainable use of marine resources. In co-operation with the contractors of demonstration activities, CBA consultants will implement the analyses from late 2008 through mid/late 2009.

<b><u>Component</u></b>	<b><u>Demonstration Activity Name</u></b>	<b><u>Contractor</u></b>
Biodiversity	Will be carried out in Rongcheng seagrass beds including Swan Lake, China and Ganghwa Southern Tidal Flat, ROK	Advertised recently
Ecosystem	Monitoring Jellyfish Bloom in the Yellow Sea	NFRDI
	Assessing impacts of N:P:Si change on the Yellow Sea ecosystem	FIO
	Assessing and Monitoring the Impacts of Climate Change on the Yellow Sea's Ecosystem	FIO
Fisheries and Mariculture	Effectiveness of closed fishing seasons/areas	YSFRI
	Effectiveness of stock enhancement	YSFRI
	Effectiveness of boat buy-back	Pukyong National University
	Limited Water-exchange Shrimp Culture	NFRDI - West Sea Mariculture Research Center
	Integrated Multi-Trophic Aquaculture in the Yellow Sea	YSFRI
Investment	CBA of Mariculture	FIO
	CBA of other demonstration activities	Advertised recently
Pollution	Management of Recreational Waters	NMEMC
	Monitoring and Assessing Atmospheric Deposition of Pollutants	NMEMC
	Calculation of Nutrient Loads in Hot Spot Areas	NMEMC
	Monitoring and Assessing Sea-Based Sources of Nutrients	Liaoning Ocean and Fisheries Science Research Institute
Cross Component (Bio-Poll)	Managing Pollution in Critical Habitats around the Yellow Sea	Academy-Industry Cooperation Foundation, ROK

Table 1. List of SAP demonstration activities and the contractors.

## 2.5 Preparation of the National SAPs

25. The Project will develop the NSAP in line with the regional SAP, following the regional priorities and the concept and proposed activities of the SAP. Two NSAPs will be prepared: one for China and one for ROK.
26. The objective of the NSAP is “to implement necessary management actions to protect marine environment and sustainable use of coastal and marine resources at national level” (Document, “UNDP/GEF/YS/RWG-I.4/3,” p. 5; Revised at 4th Regional Working Group for Investment Component [RWG-I] Meeting; Approved at 4th PSC Meeting).
27. The management actions of the NSAP will be prepared and implemented to meet national targets or priorities, and also regional targets defined by the SAP in order to address transboundary issues in the Yellow Sea.
28. It is expected that the NSAP will greatly contribute to and/or complement the implementation of the Regional SAP at the national level. The draft NSAPs will be presented to RSTP/PSC for their consideration.

## 2.6 Preparations for the SAP Implementation

29. Planning for the project’s next phase has been on-going since the beginning of the year. The PMO familiarised itself with the GEF procedures for submitting a proposal, and held some internal discussions on how to proceed with this task.
30. Following the suggestion by the SAP Drafting Group and the SAP Ad-hoc Working Group, to establish a Phase 2 Ad-hoc Working Group for preparing relevant documents for the possible 2<sup>nd</sup> phase and the approval by the Second Special PSC Meeting (8 May 2008, Hangzhou, China), two Phase 2 Working Sessions were organised in August and October this year. At the first Working Session (26-28 August 2008, Dalian, China), a proposed list of activities was drafted, based on the SAP targets and management actions listed in the document. The members also discussed and agreed on the overall structure of the PIF.
31. The PMO prepared a draft PIF which was worked on by participants at the second Working Session (5-6 October 2008, Shanghai, China). The countries are examining their co-financing resources and are expected to give an update on how much in-cash and in-kind co-financing would be available. The draft PIF is under review by all three countries (China, ROK, DPRK).
32. There still remains quite a bit of work from all involved parties before the documents are finalised for submission to the GEF. It is hoped that everything will be ready for submission to the GEF some time before the end of 2009.

## 2.7 Progress in involvement of DPR Korea

33. Following the instructions from the PSC, efforts have been made by the participating countries and PMO to involve the DPRK in the project activities. The following activities were carried out with financial support from the participating countries:
34. **Workshop on Introduction of the TDA and SAP Concepts.** In order to:

- (i) provide opportunity for government officers and experts to become familiar with the GEF's procedure in preparation of TDA and SAP;
- (ii) introduce the TDA and SAP development under the UNDP/GEF Yellow Sea Project, in particular the regional agreements on management targets and management actions; and
- (iii) introduce the procedure to develop the project documents for the 2<sup>nd</sup> phase of the UNDP/GEF Project, i.e. implementation of SAP,

a workshop on introduction of the TDA and SAP concepts was organised in Dalian, China, 21-22 August with participation of 5 governmental officers from DPRK and representatives from China and ROK (Figure 11). The presentations on TDA and SAP development, its procedure and concepts were introduced to the participants. The presentations were well received. It was indicated that DPRK will take all possible actions to participate in the project fully.

35. The experts presented their strong interests in project implementation. Apart from critical questions raised during the workshop, it was noted that the full texts of the TDA and SAP documents have been translated into Korean language for better use of the experts from the country.

36. ***Training Course on Analysis of Metals and Nutrients in Marine Environment.*** With close co-operation with KORDI, the training course on Analysis of Metals and Nutrients in Marine Environment was organised in the National Marine Environment Monitoring Center in Dalian, 17-23 March 2008. There were 10 experts from DPRK that participated in the training course (Figure 12). The technical details were introduced to the experts, and the concept and procedure to design a monitoring programme were also presented to the training course.



Fig. 11. Left: Participants of the TDA/SAP Introduction.

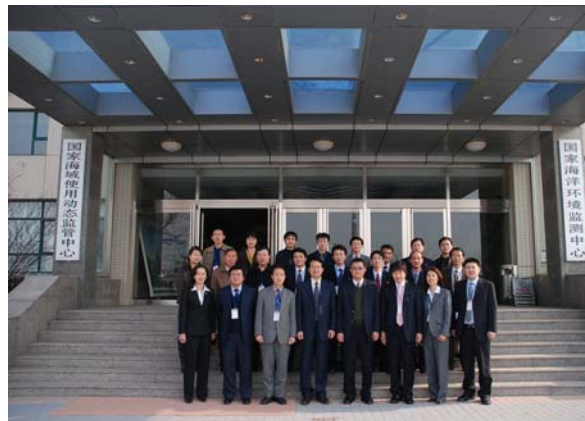


Fig. 12. Right: Participants of the Metals and Nutrients Analysis Training Course.

***Representatives of DPR Korea participated in several important meetings as observers.***

37. For better understanding of the project implementation and to increase the interests of DPRK in the project, the government officers and experts were invited to participate in several important meetings of the project, including:
- The 4<sup>th</sup> RSTP and PSC meetings;
  - The Special Meeting of the PSC on SAP;
  - The 1<sup>st</sup> and 2<sup>nd</sup> Meetings of the Working Group for preparing relevant documents for the 2<sup>nd</sup> phase of the project



38. Through participating in these meetings, the officers and experts from DPRK received better understanding of the project, and strengthened their willingness to fully participate in the project.

### 3 PROJECT IMPLEMENTATION

#### 3.1 Fisheries Component

##### 3.1.1 Stock assessment

39. As mentioned previously, the joint regional stock assessment has been successfully implemented and the final surveys completed. The concluding workshop is scheduled for 14-16 April 2009 when participating scientists will have the opportunity to present the results of the surveys using the fully shared data.
40. The reports were received from scientists involved in the harmonisation exercises to standardise measurement of two vital parameters used in stock assessment that of ageing fish (using annual growth rings that are most clearly seen in the ear bones (otoliths)) and diet composition through the analysis of stomach contents. The reports suggested that diets of smaller sized anchovies in the western Yellow Sea were dominated by copepods; where as the bigger individuals found mostly in the eastern portion were mostly feeding on the larger sized euphausiids (Fig. 13).

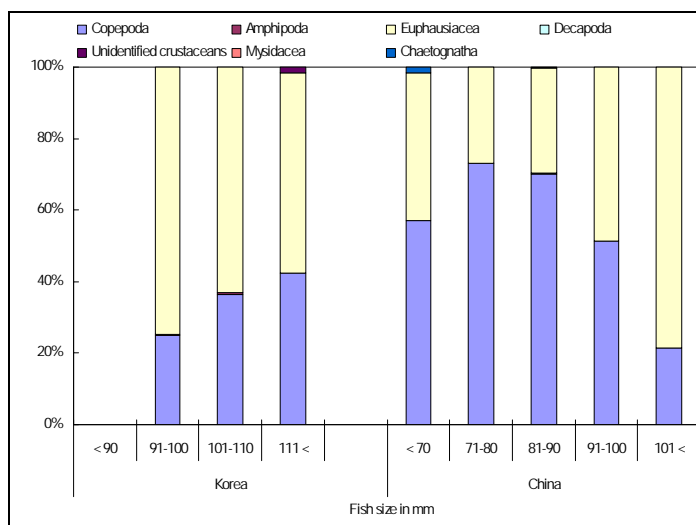


Fig. 13: Composition of stomach contents in a size range of Japanese anchovy

41. Similar results were reported for small yellow croaker with a direct correlation between the percentage of the diet occupied by larger prey items and the increase in fish size (Fig. 14).

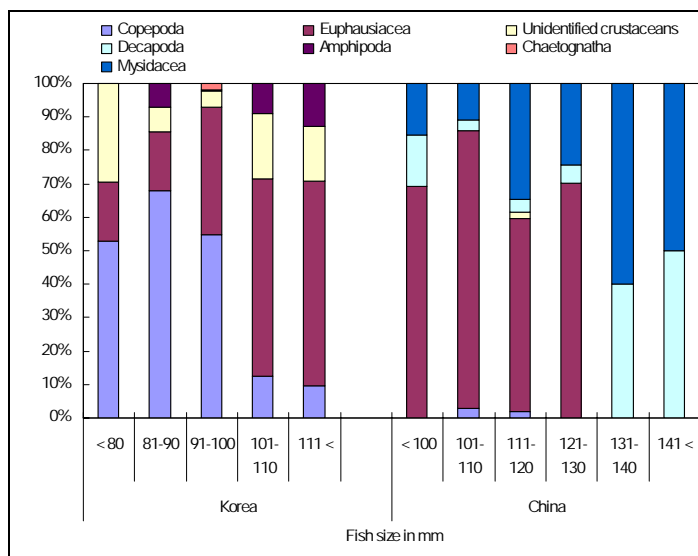


Fig. 14: Composition of stomach contents in a size range of small yellow croaker

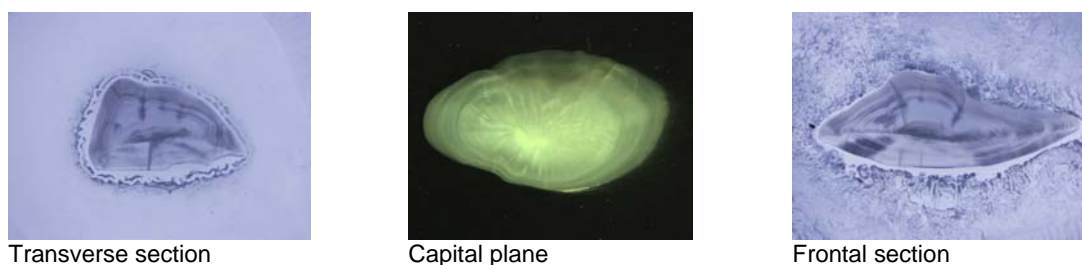


Fig. 15: The three sections of the small yellow croaker otolith

42. Experts found no difference in the ageing results obtained using the different otolith sections used (Fig. 15). Only a small size range was obtained in the first survey (Table 2) and it was therefore impossible to discern if there was any difference in the growth rates in fishes located in either side of the Yellow Sea as was indicated in the data and information reports. It is hoped this may be resolved using catches from the final cruise.

Table 2: Size at age of small yellow croaker and Japanese anchovy from the 1<sup>st</sup> stock assessment surveys.

Species	Small yellow croaker (N=20)		Anchovy (N=20)	
	Standard length	Body weight	Fork length	Body weight
0	\	\	45mm-48mm	0.61g-0.75g
1	75mm-124mm	7.8g-29.8g	96mm-111mm	7.54g-13.12
2	154mm-168mm	72.4g-100.7g	\	\

### 3.1.2 Mariculture

43. The YSLME project organised a special half day session entitled “Reducing the environmental impacts of mariculture in the Yellow Sea” during the World Aquaculture Society (WAS) Conference in BEXCO, Busan City, Republic of Korea, May 2008. The conference was attended by more than a thousand people from 95 countries around the world. During the special session, participants presented papers on innovative methods of limiting the spread of disease causing pathogens,

decreasing the use of chemicals, and reducing the release of nutrients from mariculture establishments in the region. Talks covered heterotrophic shrimp culture, shellfish disease, dietary improvements, bioremediation using macro-algae and IMTA.



Fig. 16: YSLME booth at the World Aquaculture Conference

44. The YSLME manned a booth at the WAS trade show that ran in parallel to the conference (Figure 16). The booth displayed our latest publications e.g. The Yellow Sea: Analysis of environmental status and trends (China and R. Korea country reports, and regional synthesis) and various YSLME mariculture workshop proceedings as well as a poster display of the most recent activities in the project focusing on the development of the Strategic Action Programme and its impact on mariculture in the Yellow Sea. The Korean Aquaculture Society generously sponsored the booth.
45. The project also organised a Regional Mariculture Conference, hosted by Yellow Sea Fisheries Research Institute to continue the exchange of information on the recent progress on reducing environmental impacts of mariculture and maintain a sense of community amongst Yellow Sea mariculture researchers that had been fostered over the previous year. In addition, these regular meetings are thought to be an efficient method of enhancing regional mechanisms to prevent the spread of mariculture diseases. This follows the suggestions of participants of last year's symposium on "Aquaculture disease prevention, diagnosis and control".
46. The during the conference more than 30 scientists from Republic of Korea and China (Fig. 17) presented talks on 4 main themes: Environmentally friendly mariculture techniques; Reducing disease and use of drugs; Reducing the chemical control of pests; and Economic benefits of the sustainable mariculture.



Fig. 17: Participants of the Regional Mariculture Conference.

### 3.1.3 SAP demo activities - fisheries and mariculture

47. Three capture fisheries demonstration activities are being initiated to test their effectiveness.
48. Fishing boat buy-back is a common, but expensive method of reducing fishing pressure. This activity, performed by Pukyong National University, aims to demonstrate its effectiveness and evaluate whether it is being implemented efficiently in R. Korea. Researchers aim to assess changes in fishing pressure as a result of the Korean government reducing the capacity of the offshore fishing fleet by 30%. In addition, changes in catch composition and stock size will be estimated and awareness of the costs and benefits amongst fishers will be evaluated.
49. Stock enhancement through restocking and the use of closed fishing areas and seasons can be effective measures to rebuild fish stocks impacted by over-exploitation. The Yellow Sea Fisheries Research Station aims to test whether these measures can enhance fish stocks and contribute to more informed decision making with regard to restocking procedures. The effectiveness of the olive flounder restocking program will be evaluated in Liaoning province, using mark-recapture methods to assess survival and relative contribution of hatchery-raised individuals to the fish catch. Tag reporting/recovery rates will be checked through the purchase of entire fish catches from selected fishing boats.
50. The demonstration activity on the effectiveness of closed fishing areas/seasons will use the same fish catches to monitor the monthly change in composition of the fish landings before and after the closures occur. Historical records will also be accessed to examine the long term ecological impact of these closures on fish stocks and to estimate both the reduction in fishing pressure and the rebuilding of fish stocks. The findings from this study will be used to improve the efficiency of these closures and to educate local fishers.
51. Two mariculture demonstration activities are being implemented, IMTA and heterotrophic shrimp culture, to demonstrate their effectiveness in reducing the environmental impact of mariculture.
52. IMTA is where lower trophic level species such as algae and filter-feeding bivalves are used to absorb the waste products from higher trophic levels such as fish or shrimp thereby reducing nutrient outflows, as well as improving the overall

productivity and profitability. Working in Sanggou Bay, the YSFRI aims to promote the use of IMTA, by demonstrating the benefits in terms of increased production and profitability to the farmers; and the reduced environmental impact of IMTA compared with conventional monoculture practices to the provincial government (Figure 18).



Fig. 18: The integration of cage farming of fish with the culture of filter-feeding scallops and oysters, that remove particulates, and the nutrient absorbing seaweeds in Sanggou Bay.

53. Heterotrophic shrimp culture is a zero-water exchange system that uses low protein diets and aeration to promote the growth of bacterial flocks. These flocks absorb nutrients from the water and provide an extra source of protein for the shrimp, thus significantly reducing the release of nutrients to the environment and decreasing the need for fish protein in the diet thus reducing the demand for fishmeal. The bacterial community also significantly restricts the growth of disease causing bacteria, increasing the likely survival rate. The WSMRI aims to optimise the management of the system and demonstrate the increased profitability and productivity of this method (Figures 19-20). Particular attention is to be paid to local farmers that currently use flow through systems that discharge pond waste and chemicals directly into coastal waters.



Fig. 19: Heterotrophic shrimp culture in raceways in WSMRI.



Fig. 20: Clean, healthy, environmentally friendly produced shrimp from the raceways in WSMRI.

## 3.2 Biodiversity Component

### 3.2.1 Assessment of critical habitats

54. The Biodiversity National Data and Information Reports and the TDA recognized two major threats to biodiversity, that of habitat loss and decline in vulnerable and endemic species. This activity aimed to build on the work carried out by the WWF/KORDI/KEI Yellow Sea Ecoregion Planning Programme that identified potential priority areas using 122 indicator species in 6 taxonomic groups. As the

resulting potential priority areas occupied much of the coastal zone, experts were hired to further prioritise habitats that were critical not only for the preservation of endemic and vulnerable species but also biodiversity in general.

55. Scientists from the First Institute of Oceanography, China and Anyang University, R. Korea used a number of criteria (such as; size, degree of fragmentation, extent of human impact, biodiversity, number of vulnerable and endemic species) to identify the best example of each of the 10 types of Ramsar habitats found in the Yellow Sea.

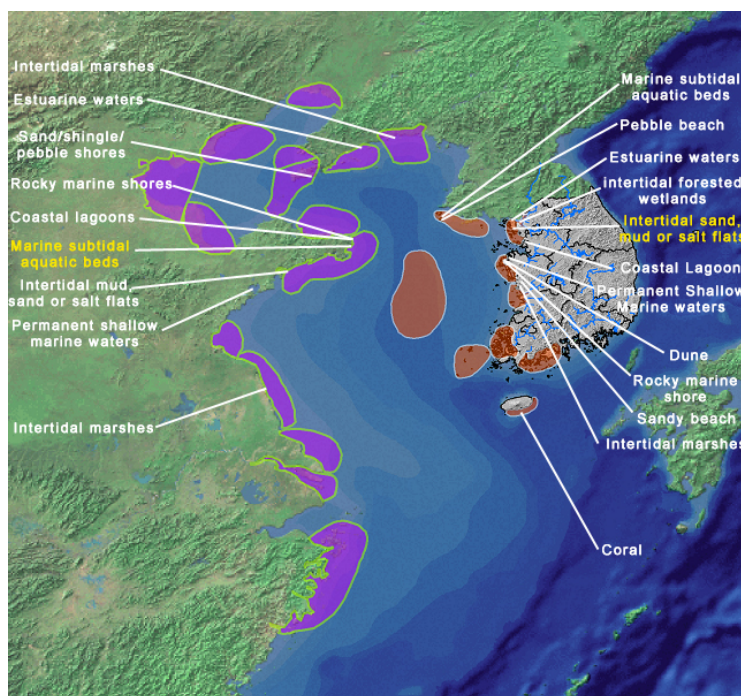


Fig. 21: The location of the representative Ramsar habitats and demonstration sites (in yellow), overlaid on the YSEPP map of potential priority areas

56. The resulting representative Ramsar habitats are shown in Fig. 21. The preservation of these representative habitats is crucial for the conservation of biodiversity. Each of these habitat types has their own unique assemblage of flora and fauna, and the future survival of these assemblages is therefore dependent on the conservation of these habitats. The results of these habitat studies were discussed in a meeting attended by YSESP and members of the RWG-Biodiversity. During the meeting 5 potential demonstration sites were also selected using the previously mentioned criteria. These included the tidal mudflats south of Ganghwa Island, Garolim Bay and the Han River estuary in ROK; in China the Rongcheng sea grass beds and the Yalu River estuary wetlands were selected. These potential demonstration sites are currently being surveyed to obtain a baseline picture of the biodiversity that is present (Figures 22 & 23).



Fig. 23: Sampling in the Han River estuary



Fig. 23: The catch prior to sorting

### 3.2.2 Selection of demonstration sites

57. As reported below, management assessment of potential demonstration sites was completed by members of the YSESP project. These studies combined with the habitat assessment performed by the Biodiversity experts enabled the RWG-Biodiversity members to make an informed decision on which of the habitats was most suitable for demonstration activities.
58. The potential local partners for demonstration activities, the attitude of local government to conservation, current management effectiveness and potential developments plans, in concert with the habitat assessments, all contributed to the final selection of the Ganghwa southern tidal flat (Fig. 24) and Rongcheng seagrass beds (Fig. 25) as demonstration sites.



Fig. 24: Tidal mudflat south of Ganghwa island



Fig. 25: Seagrass beds in Rongcheng, Shandong province

### 3.2.3 Shrimp genetic diversity

59. During the Genepool Workshop in May 2007, members agreed that the threats to genetic diversity were similar to those threatening biological diversity in general. These threats included habitat loss, over-exploitation and habitat degradation from pollutants and eutrophication. However, restocking of wild populations using hatchery-reared juveniles and introduction of non-native species from ballast water and for aquaculture were regarded as specific threats to genetic diversity in the Yellow Sea. To understand the impacts of restocking and the possible management implications, the Institute of Oceanography, Chinese Academy of Sciences examined the historical records of the genetics of wild stocks of the Chinese fleshy shrimp.

Initial results, using two different methods, suggested that there was a slight decrease in genetic diversity between 1995 and 2001. In contrast, analysis of the current genetic diversity in stocks from around the Yellow Sea, suggested that between 2004 and 2008 no loss of diversity was apparent.

60. However, improved brood stock management is required as some worrying traits are appearing. Certain genetic profiles are now found only in the cultured stock, and a previous study suggested that a hatchery raised stock in Dalian had higher diversity than wild stocks. If these are traits introduced into the wild stocks, the overall genetic fitness could decrease. The final report will propose a number of management actions to improve restocking practices. These recommendations are thought to be generally applicable to all restocking activities in the Yellow Sea.

### 3.3 Ecosystem Component

#### 3.3.1 Ocean colour algorithm

61. This activity extended to a 2<sup>nd</sup> phase this year in order to improve the common dataset and the in-water algorithms for estimating chl-a, TSM, and CDOM ag440 (Figure 26). For this year, the activity focuses on the following:

- Error analyses of outlier points;
- Additional match-up generation for the turbid water;
- Examine the influence of geographically biased distribution of match-ups;
- Develop satisfaction criteria for the final algorithms;
- Design new approach for improving the in-water algorithms (i.e., using ratios, case separation, etc.); and
- Inviting atmospheric correction scientists to contribute to the final outputs.

62. A planning workshop was held in Kota Kinabalu, Malaysia, 22<sup>nd</sup> May 2008, in conjunction with 7<sup>th</sup> WESTPAC Scientific Symposium, where the above objectives were agreed on (Figure 27). A final meeting will be held in December to finalise the regional algorithms.

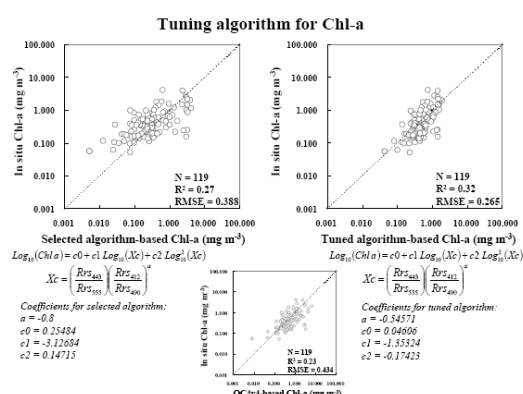


Fig. 26. Sample work for tuning algorithm of Chl-a (left).



Fig. 27. Participants of the YOC-2008 First Meeting (right).

#### 3.3.2 Primary productivity estimation

63. The activity aims to:

- develop regional primary production algorithm that can be used for long-term monitoring;



- provide a baseline assessment of potential productivity of the Yellow Sea; and
- generate field bio-optic data to assist the development of chlorophyll algorithms.

64. *In-situ* observations have been carried out in Ganghwa and Taean, using the FRRF to measure bio-optics and photosynthetic parameters. Due to numerous malfunctioning of the FRRF, preventing field surveys to be carried out earlier this year, the activity has been extended to end next February. At that time, annual primary productivity maps and inter-annual variability of primary productivity in the Yellow Sea will be presented.

### 3.3.3 SAP demo activities - ecosystem

65. Three SAP demonstration activities have been initiated under the Ecosystem Component:

- Monitoring Jellyfish Bloom in the Yellow Sea;
- Assessing impacts of N:P:Si change on the Yellow Sea ecosystem; and
- Assessing and Monitoring the Impacts of Climate Change on the Yellow Sea's Ecosystem.

66. The monitoring of jellyfish has completed some field surveys using visual counting, as well as acoustic surveys (Fig. 28). So far, not so many jellyfish have been detected, compared to previous years. An underwater camera and its support system were made and tested in the field along with the visual counting and acoustic methods. However, due to the absence of giant jellyfish, the camera could not capture any results. Nevertheless, the performance of the camera proved that the system can visualise bubbles at the sea surface.

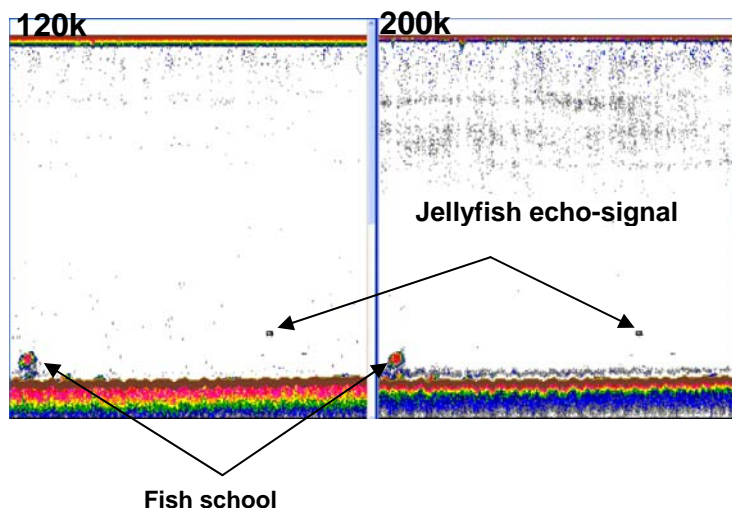


Fig 28. Jellyfish detected by echosounder in August 2008 (from Dr. Yoon Won Duk).

67. The activities on assessing changes in N:P:Si and climate change impacts have only just begun. The N:P:Si activity is investigating effects of nutrient ratio changes and response of phytoplankton and zooplankton. Results from the co-operative cruise will contribute to the activity, as well as historical data, and lab and mesocosm experiments. Expected outputs next year are showing that ratios did change, giving some examples of impacts of ratio change on the ecosystem and suggesting to policy makers and scientists the best monitoring strategy to use.

68. The activity to investigate effects of climate change on phytoplankton will compare historical data of physical & biological characteristics, and modelling to understand environmental changes and population dynamics of *Calanus sinicus*, as there is ample historical information on this species. Climate-related data have been collected, and change in phytoplankton over past decades analysed. Enrichment experiments on dust storm effects will be carried out, and *C. sinicus* historical data collected. This activity will propose regional guidelines on monitoring.

### 3.4 Pollution Component

#### 3.4.1 Capacity building

69. Three capacity building activities were implemented for analyses of nutrients, inorganics and organics. This activity built upon the early rounds of inter-calibration exercises (see 3.4.2) held during 2006-2007. The purpose was to increase analytical ability and understanding of good practices in the process of sampling procedures, standard operation procedures, analysis, and QA/QC.

70. A group of 4 young scientists from the region visited FSS Queensland for nutrients analysis. This group was exposed to the full range of procedures starting with a field trip to Oxley Creek to demonstrate a range of sampling procedures and techniques, including the application of appropriate and relevant QA/QC procedures (incorporating field blanks, use of CRM's as sample unknowns, repeatability, reproducibility). An interesting exercise was the "finger test" whose result will show the contamination from the sampler's hands if samples are collected incorrectly (Figure 29). Laboratory work included total nutrient analyses and soluble analyses of samples applying a range of appropriate laboratory QA/QC's under the demonstration of experts of FSS. The analyses of total nutrients were carried out using various automatic auto-analysers. Finally, participants reviewed and evaluated all of the samples. As well as reviewing the sample results, QA/QC aspects such as the preparation of control charts, development and calculation of precision criteria e.g. repeatability, reproducibility, accuracy and acceptance criteria, were applied to the final analyses.

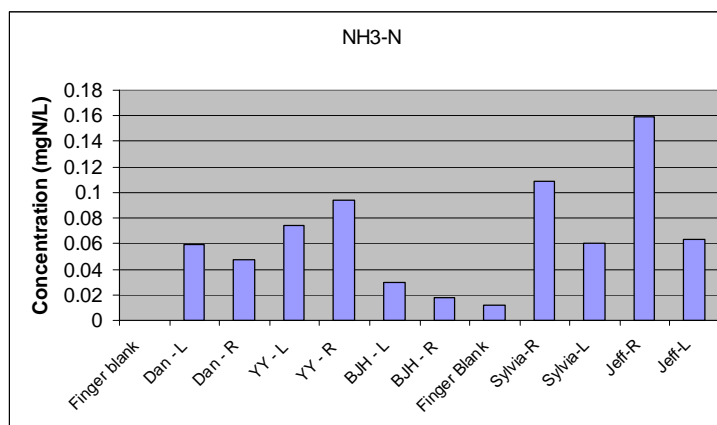


Fig. 29: Results of the finger test (from Ms. Yang Ying).

71. Two groups of scientists concurrently visited IAEA-MEL for capacity building in inorganic and organic analyses (Figure 30). Training was given in analyses of organic compounds and PCBs in sediment and biota samples. Similar to the nutrients capacity building, these 2 groups were also informed about good practices in sampling, sample treatment, analysis, and reporting. Discussions were also held on HAB, HAB toxins and their detection, PSP toxins, and speciation analyses of trace metals.

72. Participants from all 3 groups reported that they learned a lot from the visit and each could apply various items to their research work. All hoped that future analytical results would be more accurate and reliable upon applying the newly acquired skills.



Fig. 30: Participants and trainers at IAEA-MEL.

### 3.4.2 Data quality assurance - Inter-calibration exercises (nutrients, metals, organics)

73. Inter-calibration exercises continued with the 3<sup>rd</sup> round of nutrients analysis in seawater and 2<sup>nd</sup> round of inorganics and organics analyses. These exercises are on-going, with results expected at the end of the year or early next year. FSS continues to co-ordinate the nutrients exercise, while IAEA-MEL continues with the other 2 exercises. This exercise is not without some challenges, as many labs do not return results on time. While past results show that most results are within the acceptable range, results are not the only determining factor in such exercises. All participants should adhere to the rules, an important one which is carrying out the analyses within the agreed time frame.

### 3.4.3 Assessment workshops

74. A workshop on assessing marine pollution was convened in Shenyang, China, 2-4 June 2008, co-hosted by NMEMC and the Liaoning Oceanic and Fisheries Bureau. More than 20 scientists from China, ROK, United Kingdom, NOWPAP, and YSLME presented a wide range of monitoring and assessment work being carried out in the Yellow Sea. Suggestions on the objectives of monitoring and how to incorporate methods from outside the region were also provided. The discussion session allowed exchange of information, and noted some salient points to improve monitoring and assessing the data in this region. Participants also took the opportunity to expand their network to include scientists from other regions and institutes within the larger northeast Asian region. A CD containing the abstracts and presentations is available.
75. A member of the PMO participated in NOWPAP's 2<sup>nd</sup> Coastal Environmental Assessment Workshop, Toyama, Japan, 11 September 2008, and gave a presentation on the various kinds of assessment the project is undertaking. Besides technical assessment, such as modelling and prediction, mention was given to economic assessments that the project is undertaking, such as cost-benefit analysis and other economic tools that can be used to assess management actions.

### 3.4.4 SAP demo activities - pollution

76. Four SAP demonstration activities have been initiated under the Pollution Component:

- Management of recreational waters;
- Monitoring and assessing atmospheric deposition of pollutants;
- Calculation of nutrient loads in hot spot areas; and
- Monitoring and assessing sea-based sources of nutrients.

77. All activities are being implemented in Shandong and Liaoning coastal areas (Figure 31). Management of recreational waters is taking place in the Qingdao bathing beaches where information on faecal coliform, *Enteromorpha*, marine litter, and jellyfish are being collected. Although a current marine litter monitoring programme is already in place, this activity will investigate whether the programme should be revised to be more relevant to the needs of monitoring water quality of recreational waters.



Fig. 31: The selected study areas are located in Qingdao coastal waters.

78. The atmospheric deposition activity will calculate the amount of contaminants, evaluate major sources of PAHs, and evaluate atmospheric contribution to the overall trace metal and nutrients input in the northern Yellow Sea. Island sampling sites will be compared with polluted land areas to determine if pollution is from land or sea (Figure 32). The consultant for the activity will compare and share his data with ROK scientists who have similar information, thus, extending the on going co-operation of the pollution scientists in the region.

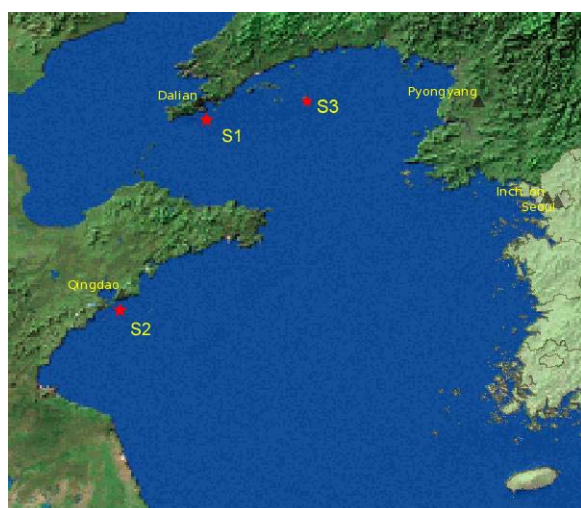


Fig. 32: Three monitoring sites at Laohutan Station (S1), Xiaomai Island (S2), and Changshan Island (S3).

79. The calculation of nutrient loading in hot spot will be implemented in the Yalu River basin, estuary, and coastal area of Dandong City (Figure 33). This site suffers from nutrients and oil as the main pollutants, with frequent HAB occurrences. The activity

will examine pollutants from land- and sea-based sources, identify major nutrient sources, and use models to estimate total loading.

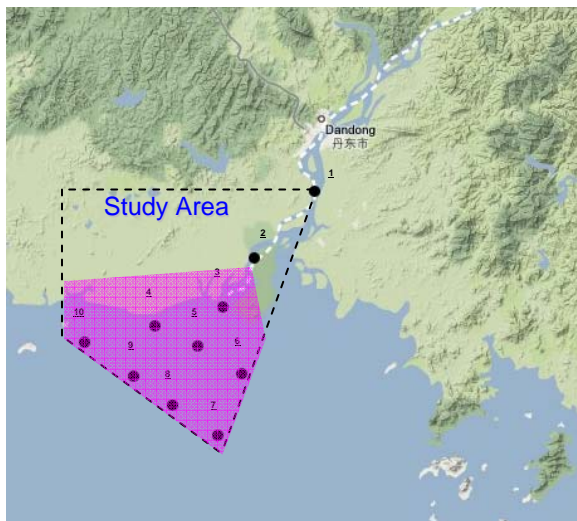


Fig. 33: Map of Yalu Estuary and the monitoring area/stations.

80. The fourth demo activity is also taking place in Liaoning Province (Figure 33). Surveys of mariculture ponds and bays in Qingduizi, near Yalu Estuary have been carried out. The early surveys showed that nutrients were higher in the ponds than in the bay (Fig. 34). Community structure and phytoplankton diversity in the bay have also been investigated. Future work will include additional surveys and transfer of knowledge for policy making.



Fig. 33: Mariculture ponds in Qingduizi Bay (from Liaoning Ocean and Fisheries Science Research Institute).

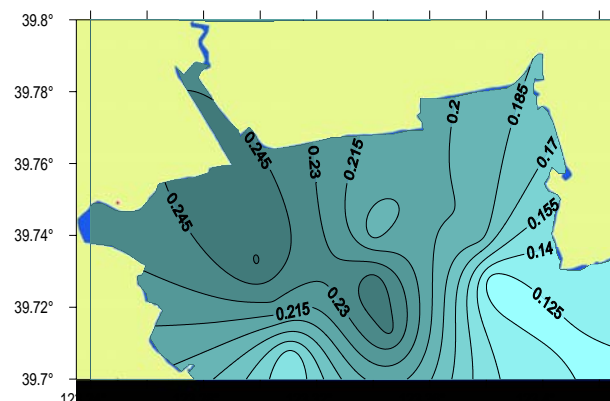


Fig. 34: Inorganic nitrogen in seawater in August 2008.

### 3.5 Investment Component

#### 3.5.1 Yellow Sea Partnership

81. The YSP logo has been designed and accepted by members (Figure 35).
82. The third YSP Workshop was organised in Changwon, ROK, on 2 November 2008 in conjunction with the meeting of Ramsar Convention. Birds Korea, a member of the YSP, hosted the Workshop.
83. After presentations of current conservation activities by participating organisations, the meeting discussed effective co-operation under the YSP with emphasis on the following four issues: (i) bridging policy and science; (ii) specific areas or projects to

collaborate; (iii) practical steps for sustainable management of the YSP, including the preparation and implementation of the next workshop; and (iv) barriers and opportunities for co-operative efforts.

84. As a result of the intensive discussion, the meeting produced a number of suggestions to facilitate and enhance collaboration under the YSP. The meeting decided to organise the fourth workshop next year in China, acknowledging the importance of exchanging information and opinions through face-to-face communication.



Fig. 35: A logo of the Yellow Sea Partnership (designed by WWF, modified/adopted by the 2<sup>nd</sup> YSP workshop).

### 3.5.2 Youth Programme

85. The third Youth Programme was organised in Buan, ROK, from 19 to 21 August 2008 in co-operation with a number of organisations, including Buan Municipal Government, Korea Marine Rescue Center, KORDI, NOWPAP, China Ocean News, and the Sea Explorers of Korea (Figure 36).
86. Twenty middle/high-school students attended the Programme from the Yellow Sea's coastal provinces and cities: ten students from China and ten students from ROK. Professional scholars with expertise in marine ecosystem as well as officials at local government and international organisations were invited as lecturers.
87. The Programme (a 3-day activity consisting of classroom lectures, field activities, and group work) provided the students with an opportunity to understand the importance of the Yellow Sea and to observe and experience its ecosystem.
88. Through the Programme, the students achieved a better understanding of the Yellow Sea, and were encouraged to actively think and act for conservation. The students also nurtured a friendship with each other by sharing and exchanging views and opinions about marine environment conservation.



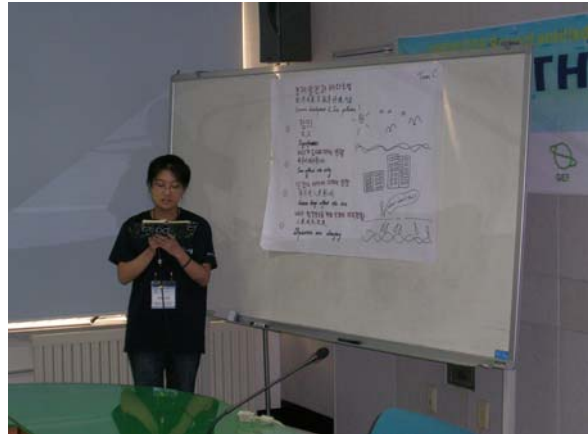


Fig. 36: Youth Programme organised with participants from China and ROK.

### 3.5.3 World Ocean Week

89. For World Ocean Day (8 June 2008), the Project organised drawing and photo competitions to raise public awareness of the importance of the Yellow Sea. (The World Ocean Day was proposed during the Earth Summit in Rio in 1992 to raise awareness of the need to manage the oceans and their resources in a good manner.)
90. More than 400 people, including elementary school students from China and ROK, participated in the competitions (Figure 37). Some selected pieces of work are available online at the Project's website.



Fig. 37: Pictures drawn by school children for World Ocean Day.

### 3.5.4 Voluntary Internship Programme and Model UN

91. As part of co-operative activities agreed in the Memorandum of Understanding with the Division of International Studies of Korea University, the Project co-hosted the Korea Model United Nations in Seoul, ROK on 14 February 2008 (Figure 38).
92. More than a hundred university students as well as high-school students participated in this simulation of the U.N. General Assembly, the U.N. Security Council, and other relevant bodies to broaden knowledge of various issues that the world faced and to exercise and improve diplomatic and negotiation skills required for debates.
93. Subsequently, twenty students from the University visited the PMO on 16 May 2008 to obtain a better understanding of the Project's activities. After the presentation by the PMO, the students exchanged their views and opinions with Project Manager and his staff members on the marine environmental issues as well as the role of the United Nations.



Fig. 38: Model United Nations co-organised with Korea University.

### 3.5.5 Associate Experts

94. The Project invited two Chinese government officers to this year's "Associate Expert Programme" to provide them with an opportunity to become familiar with the operational procedures of United Nations' international projects.
95. The Associate Experts, nominated by NPC for China, assisted the PMO in implementing various activities, including meeting preparation and public awareness activities. An intern with training in environmental economics, invited from SOA, started her three-month internship in September 2008 (Figure 39). Another intern is expected to start the Programme in late 2008/early 2009.
96. There was no appropriate candidate identified from ROK, although the position was advertised three times in 2008. Therefore, the Project decided to have no Associate Expert from ROK this year. The decision was informed to the NPC for ROK in July 2008.



Fig. 39: Ms. Jing Li, Associate Expert (second from left), attending the 5<sup>th</sup> RWG-E Meeting.



### 3.5.6 Small Grants Programme

97. Six projects, funded by the Small Grants Programme 2006, were completed successfully, and the Programme Report summarising those projects was published (available online at <http://www.yslme.org/publication.htm>) (Figure 40).
98. Five projects funded by the Programme 2007 were implemented as scheduled; three projects were completed already, that were conducted individually by the Korea Marine Rescue Center, the Liaoning Ocean and Fishery Department, and the Rongcheng Fisheries Association, Shandong Province.
99. Following the successful implementation of the Programme in the past two years, the Project decided to fund five projects under the Programme in 2008 as suggested by the RWG-I and agreed by the PSC.
100. The five grantees, selected from 14 submitted proposals by the External Review Panel, consisted of local environmental NGOs, local fisheries association, and universities (Table 3). It is worth noting that the quality of this year's proposals was high; there was a clear sign of the improvement in composing proposals during the last couple years of Programme implementation.

Project Title	Proponent
Resource Reliance of Surrounding Communities' Economy on Binzhou Shell Dyke Island and Wetland National Natural Reserve and Their Participations in the Management of the Reserve	School of Economics, Ocean University of China
Establishing preliminary guidelines, processes and basic designs for the enhancement, restoration and "Wise Use" of the "Mokpo Urban Wetland"	Birds Korea
Protecting the seagrass beds for a better future	Rongcheng Fisheries Association
Ecological pre-warning assessment on environmental quality in the core area in Yancheng Biosphere Reserve: heavy metal pollution status of macrobenthos caused by economic development in recent years	Nanjing University
Living with black-faced spoonbill, the symbol of peace in the Yellow Sea	PGA Wetlands Ecology Institute

Table 3: Projects selected for Small Grants Programme 2008.

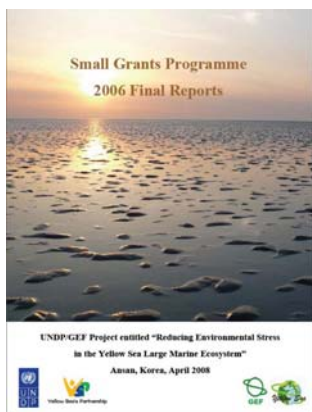


Fig. 40: The cover of Small Grants Programme 2006 (publication).

### 3.5.7 Data and information management

101. The Project established the Regional GIS and Meta Databases in 2006 at the CKJORC. The CKJORC provided the Project with necessary consulting services to develop, operate, and maintain the databases.
102. Under the contract made in 2008 with the Project, CKJORC improved the databases by updating existing data and information, by strengthening the network with other relevant databases, and by enhancing the interface/functions of the databases to allow easy retrieval and presentation of data (Figure 41).
103. Following the agreement made by the 4<sup>th</sup> RWG-I Meeting, CKJORC also organised the Technical Workshop on Regional GIS Databases (Qingdao, China, 23-24 August 2008) as the Project's activity to create ideas and solutions to enhance the information services provided by the databases. The participants consisted of regional experts from relevant organisations, including NOWPAP.
104. RWG-I suggested developing the mirror site during the Project's second phase when more data and information are available (Document, UNDP/GEF/YS/RWG-I.5/3).

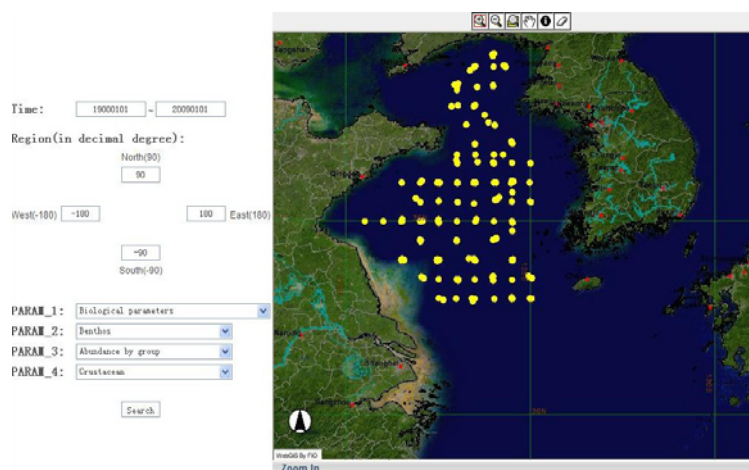


Fig. 41: GIS map with data query function provided by Regional Databases.

### 3.5.8 CBA of mariculture and other SAP demo activities

105. The Project will initiate CBA of some SAP demonstration activities such as the activity for improving sustainable mariculture techniques. ("Guideline for Economic Analyses of Environmental Management Actions for the Yellow Sea," published in 2008, will be used a reference for the CBA work.)

106. The objectives of the analyses are to assess the cost-benefit performance of the activities and to show how economic analyses can be used for better ecosystem management as one kind of decision-support tool. Specifically, the study is expected to:
- Suggest recommendations on whether and how the demonstrated activities should be implemented on a widespread basis with their economic aspects considered;
  - Provide governments with guidelines on how the CBA method should be used for better ecosystem management; and
  - Provide a suggestion to integrate economic analyses into the workplan of relevant authorities to assist them in designing and implementing their conservation activities.
107. The CBA works, to be completed by Summer/Fall 2009, will be conducted in close co-operation with the organisations/individuals who implement the concerned demonstration/pilot activities.

### **3.6 National co-ordination and implementation**

108. National co-ordination has been largely strengthened during the reporting period, which is one of the major achievements of the project. The following facts demonstrated effective national co-ordination:
- Agreement on the co-operative cruise was reached with compromise proposed by the governments of the participating countries, following more than 2 years of negotiations. The cruises were finally organised in winter and summer of 2008 with substantive outcomes in data and samples collection.
  - During the preparation of the SAP for the Yellow Sea, it was agreed at the Special Meeting of PSC that a YSLME Commission should be established as the co-ordinating mechanism for protection of the marine environment in the Yellow Sea. The main tasks of the Commission will be co-ordination of the national and regional efforts in implementing the SAP. It was agreed in principle that DPRK would join the Commission to allow full co-ordination and collaboration among all the coastal countries in the Yellow Sea.
  - Under the effective co-ordination of the Inter-ministry Co-ordinating Committee, the preparation of the NSAPs has been implemented smoothly, which largely contributed to the more effective national co-ordination in the region.

### **3.7 Cross Component Issues - SAP cross component demonstration activity**

109. A biodiversity-pollution cross component SAP demo activity recently got underway in Ganghwa tidal flats, ROK, to show how regular monitoring and assessment of the ecosystem and exchange of information across different responsible agencies can help improve the marine habitats through controlling marine pollution in the Yellow Sea (Figure 42). Estimation of pollution loading, types of pollutants, current status of pollution, information exchange, establishment of monitoring programme and management plans, and benthic microcosm study will be carried out to identify the relationship between pollution and biodiversity. Through these activities, it is hoped that the proposed biodiversity habitat management can be applied to other biodiversity studies in the Yellow Sea region.

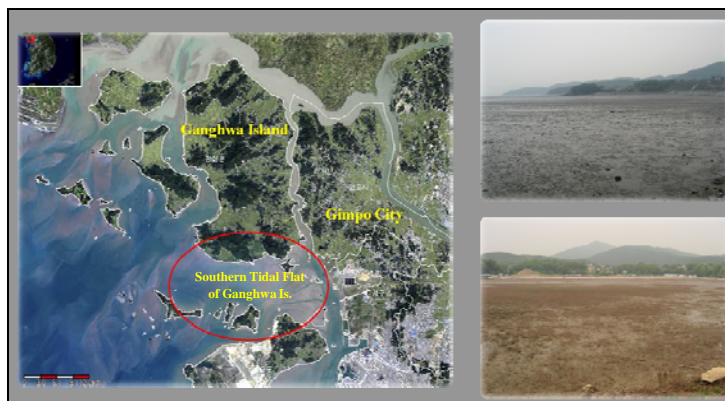


Fig. 42: Location of study site and natural views (from Dr. Park Gyung Soo).

#### **4 FINANCIAL REPORT 2008**

110. This year, China and ROK provided additional co-financing. SOA North Sea Branch contributed USD 100,000 to the summer co-operative cruise, while ROK has committed USD 120,000 for capacity building and NSAP preparation.
111. The expenditure report is attached as [Appendix II](#).

#### **5 REPORT ON THE PROJECT MANAGEMENT OFFICE**

##### **5.1 Facilities and Office Operation**

112. With continuous support from KORDI, the PMO office has run smoothly this year with adequate office space. The location of the Secretariat remains in place for the remainder of the project, as there is adequate space to comfortably accommodate 2 additional staff, usually, Associate Experts.
113. Since March, PMO began operating the UNOPS Atlas financial system instead of using the Imprest account. Having access to Atlas helps to ensure that all transactions recorded in the project accounts are accurate and in accordance with UNOPS Financial Rules and Regulations and other relevant procedures. Working directly through Atlas also enables the project to track all contract payments and comply with other budget-related issues.
114. The PMO continues to operate within UNOPS' rules and regulations.
115. Ms. Euidea YUN, IT staff, was on maternity leave for 4 months during the beginning of the year. A temporary IT staff, Mr. Wooyeol BAEK, was hired to oversee all IT functions during this period. Mr. Baek ensured that all IT functions continued to be met, and also helped with publications and designing an online calendar which all staff could access anywhere internet connection was available.
116. The Inventory Report listing the PMO's assets is attached as Appendix III.

## 5.2 Project Website, Partnership Website, and Newsletter

### Google API

117. After four years of operation, the project website, [www.yslme.org](http://www.yslme.org), keeps the aim of “information dissemination” which is fully sufficient and works as a linkage among the UNDP/GEF Yellow Sea members. It disseminates background information about the project, the staff and partners, the latest news on implementation, project reports and meeting documents, and relevant stories about the Yellow Sea.
118. Additionally, the Google Earth API (Application Programmable Interface) was established and is accessible from the project website with multi plug-ins based on MS Internet Explorer (Figure 43). It provides visual effects for the Yellow Sea area with scientific data, and can explore the region and other parts of the world. The site has default functions like Status Bar, Navigation Control, Grid, Overview Map, Scale Legend, Atmosphere, Mouse Navigation. Zooplankton biomass ( $\text{mg}/\text{m}^3$ ) calculated with wet weight in 2000 and abundance (inds./ $\text{m}^3$ ) of four zooplankton assemblages in 2000 (inds./  $\text{m}^3$ ) in the surface of Yellow Sea is one layer which can be navigated. In later stages, this site will provide more layers of data. Without needing professional GIS tools, the Google Earth API allows users to access geographical information.

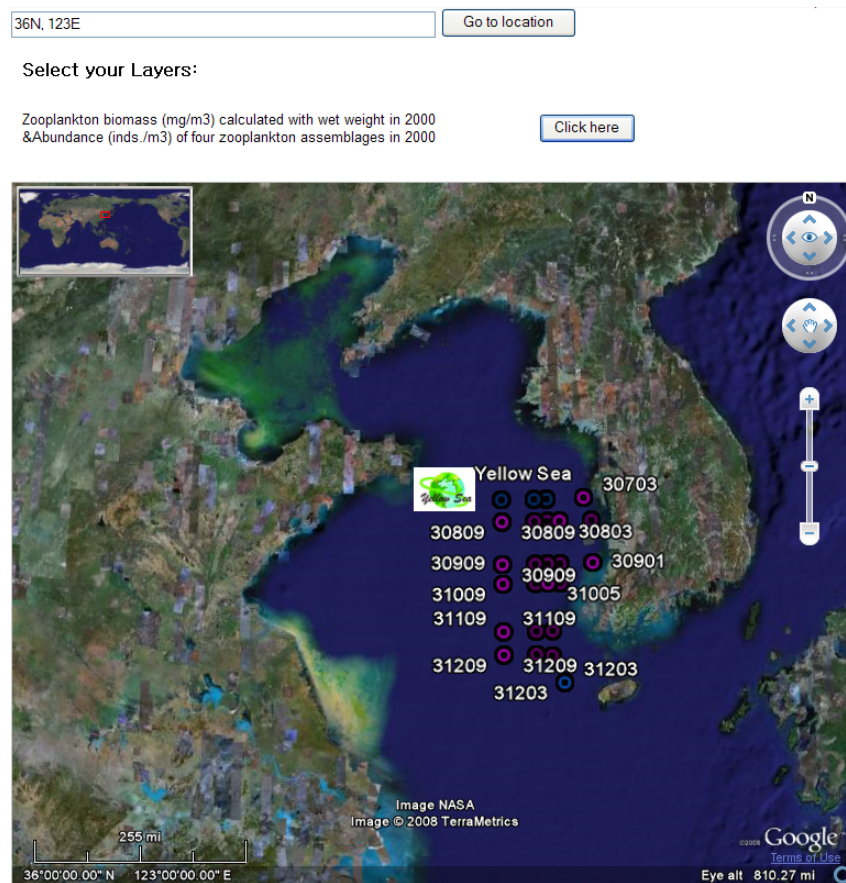


Fig. 43: Google API showing example of zooplankton data.

### Partnership Website (Figure 44)

119. The website helps to promote environmentally-sustainable management and use of the marine and coastal resources in the Yellow Sea for the Yellow Sea Partners. The platform takes advantage of the free tools and services offered and supported by

UNEP/GEF IW:LEARN website toolkit. With the toolkit, each partner may update its news by itself, directly to the website.

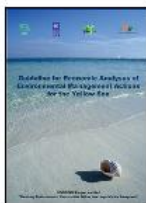
you are here: home

## Welcome To The Yellow Sea Partner's Website

*With an emphasis on raising public awareness, the Yellow Sea Partnership is established to facilitate co-operation and coordination among various organisations which conduct activities for environmental conservation in the Yellow Sea.*

### New Publications

[http://www.yslme.org/pub/pdf/econ%20guide\\_final.pdf](http://www.yslme.org/pub/pdf/econ%20guide_final.pdf)



Guideline for Economic Analyses of Environmental Management Actions for the Yellow Sea  
UNDP/GEF Project entitled "Reducing Environmental Stress in the Yellow Sea Large Marine Ecosystem" (YSLME Project)  
Project Management Office  
Ansan, Republic of Korea

### Yellow Sea Map

### News

[NOWPAP] International Coastal Cleanup and training workshop  
2008-10-15

International Symposium on the Conservation of East-Asian Coastal Wetlands on 27th October 2008 in the city of Changwon, Republic of Korea  
2008-10-15

Vacancies in NOWPAP RCU  
2008-08-19

[YSLME] YSLME Newsletter No.4 Vol.3 (2008.04 - 2008.06) is

Fig. 44: The YSP website.

## Newsletters

120. The full set of newsletters from 2005 is accessible from the project website. The newsletters describe all past events, workshops, and activities implemented by the project (Figure 45). The PMO continues to seek better ways to communicate with the public and transmit information. Suggestions in this regard are welcome.



Vol.4 No.1



Vol.4 No.2



Vol.4 No.3



Vol.4 No.4

Fig. 45: Newsletters issued in 2008.

## 6 CO-OPERATION WITH OTHER ORGANISATIONS AND PROJECTS

### 6.1 Exchange of Memorandum on Co-operation

121. The project continued efforts to establish and strengthen co-operation with additional organisations. In 2008, the project exchanged MoUs with the following organisations:

- Law School, Ocean University of China (30 June 2008);
- KORDI (13 August 2008); and
- Ministry of Land, Transport and Maritime Affairs, ROK (18 August 2008) (Figure 46).

122. The MoUs stated the scope and formats of the co-operation, specifying activities and focal areas to collaborate on. Namely, the MoU with MLTM aimed to enhance the co-operation to promote the preparation of NSAP for ROK and to build and enhance the capacity of all stakeholders around the Yellow Sea. In line with the agreement with the MLTM, the MoU with KORDI focused on the co-operation in organising the TDA/SAP capacity building workshop and the Project's phase 2 working group. The MoU with Ocean University defined a comprehensive agreement to facilitate information-sharing and exchange by strengthening the partnership with the University and expanding the network with other universities.



Fig. 46: Left photo: Mr. Yihang Jiang, Project Manager (left) exchanged the MoU with Mr. Won-Min Kim, Director General, MLTM, ROK (right). Right photo: The MoU signing ceremony.

## 6.2 Co-operation with NOWPAP in Marine Litter Issues

123. The Project furthered co-operation with NOWPAP in various areas, particularly marine litter issues. Representatives of the Project attended two ICC campaigns organised by NOWPAP in September 2009 in Dalian, China and Vladivostok, Russia.
124. During the ICC Dalian, Mr. Quan Wen, Chairperson of Project's RWG for Pollution Component, presented management actions that were proposed by the SAP to address marine litter in the Yellow Sea, explaining a demonstration activity focusing on management of recreational waters. Mr. Sungjun Park, PMO Staff Member, reported to the ICC Vladivostok on the progress of Project's public awareness activities with respect to marine litter issues (Figure 47).
125. The Project will seek further co-operation with NOWPAP as well as other relevant organisations to solve marine litter problems in the Yellow Sea, while the Project conducts management actions as part of the SAP implementation. It is expected that such a co-operation will help in making regional conservation efforts more efficient and effective.



Fig. 47: Mr. Sungjun Park giving his talk at the ICC Vladivostok.

## 6.3 Synergy with WWF on Selection of Demonstration Projects and Small Grants

126. Following the MoU between the WWF/KORDI Yellow Sea Ecoregion Support Project and the YSLME project we coordinated the work plans and activity schedules of the both projects to maximise the use of resources by promoting complementary activities. WWF provided advice and support for many project activities including helping develop the SAP biodiversity management actions and attending the 5<sup>th</sup> RWG-Biodiversity meeting and Yellow Sea Partnership meeting.
127. The two projects worked together closely to select the potential biodiversity demonstration sites at a meeting with other parties in June 2008, and both project contributed data. The YSLME project concentrated on assessing the biological/physical aspects of these representative habitats, while the YSESP project assessed the management effectiveness and threats in these critical habitats. Both projects will use the information to select their sites where management actions from our jointly developed SAP will demonstrated.
128. The projects further co-operated acting as reviewers of proposals received for each others small grant programmes. This close cooperation has been instrumental in advancing both projects agendas for biodiversity conservation and greatly enhances our cost effectiveness.



#### 6.4 Wetland Meeting with Other UNDP/GEF Funded Projects and Ramsar Convention

129. The project recently co-organised an “International Symposium on East Asian Coastal Wetlands” with the Getbol Forum, Birdlife International, the Common Wadden Sea Secretariat, and the Tidal Flat Research Center and was hosted by the MLTM (Figure 48). The Symposium was held immediately prior to the Ramsar COP 10 meeting in Changwon and attracted speakers from around the world. The conclusions from the symposium on the importance of recognizing the value of wetlands in terms of the ecosystem services they provide to the coastal population and the need to conserve them, were adopted as an annex to Resolution 22 of the Ramsar COP 10.
130. During the Ramsar COP 10 the project operated a booth in the convention centre, informing delegates and observers on the environmental challenges in the Yellow Sea and the project activities to remedy them (Figure 49).



Fig. 48: The International Symposium on East Asian Coastal Wetlands

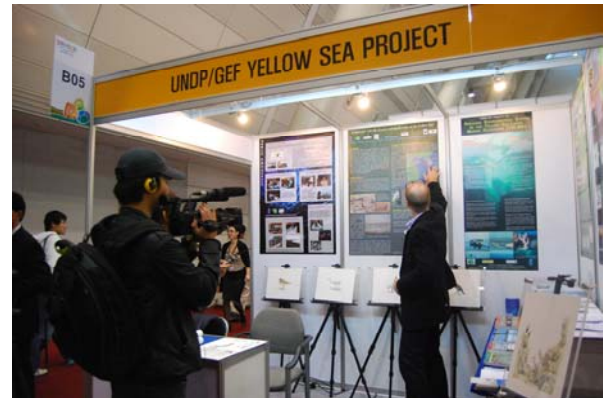


Fig. 49: Interview with Arirang television in the YSLME booth at the Ramsar COP 10

#### 6.5 Collaboration with MLTM, KORDI, NMEMC on DPRK Activities

131. Section 2.7 already mentioned the project activities in which DPRK participated during the year. Through collaboration with MLTM, KORDI, and NMEMC, various MoUs were signed in order to engage DPRK in each of these activities. Funding from MLTM, KORDI, and China have enabled these activities to be realised. The project is grateful for these external resources that have allowed DPRK to be updated on the project's development. Discussions continue among all parties to examine additional activities that might be required or necessary in order for the region to have a more common starting point when implementing the SAP in the near future.

### 7 CHALLENGES TO PROJECT IMPLEMENTATION

132. Although the project has been running for four years, challenges to implementation still remain. To ensure successful project implementation in the remaining year and a half, it is critical that all challenges are addressed now. The RSTP and PSC are requested to pay attention to these challenges, to take action to eliminate them, or at least lessen their negative impacts. The challenges to project implementation are listed in Table 4.

<b><u>Issue</u></b>	<b><u>Situation</u></b>
<b>Enhance the participation and roles of the IMCC</b>	The IMCCs have been established in both countries with regular meetings. However, participation from a wide range of government agencies is still weak. This needs to be strengthened, especially since there is a possibility of SAP implementation.
<b>Lack of a wide range of stakeholder, such as NGO, participation in decision making processes</b>	Since project inception, the membership of only NWGs and RWGs has included slightly more institutions. However, new member involvement in the overall project was limited in scope and number and only on a short-term basis (Small Grants Programme). Considering the future of the project, it would be more effective and beneficial to the region if additional institutions, especially NGOs, have long-term involvement in the project that is not limited to technical issues. It should be noted that allowing long-term participation in more institutions from relevant stakeholders would bring more expertise and human resources to the project, and also help raise attention on the environmental problems faced by the Yellow Sea.
<b>Unstable NWG and RWG membership</b>	The members of some Regional Working Groups continue with membership changes. While the RWGs will not have its own meetings anymore, consistent membership is still required in order to see all activities until the end of the project. Stable membership will enable the group to understand the activities, and provide appropriate guidance.
<b>Lack of institutional incentives</b>	This issue has not been solved, and is related to the above. While recognition of the issue has been heightened, there still is no resolution to the situation. Considering that co-financing from all countries is required for the project's future, this issue warrants further discussion and solution.
<b>Little regard for previously agreed deadlines and attention to reminders</b>	There continues to be delays in meeting milestones stated in legally signed contracts for activities, although this has improved compared to the first year of the project. Contracted parties need to maintain a sense of urgency in order to maintain efficient project implementation, especially given the limited time of the rest of the project.

Table 4. Challenges to project implementation.

133. Although challenges remain in project implementation, there has been considerable progress since the early years. Some issues still remain, but most are considered low-risk, as the majority of the project's players are now aware of the issues that might derail efficient project implementation, and have made amends to limit such incidences from occurring. As the project moves towards implementation of the SAP, the remaining challenges serve as a reminder that there is still a need for a continued sense of commitment by all parties to the project and a faithful and optimistic outlook that the project, with an SAP in place, will provide the expected benefits to the region's marine environment and any future benefits the project may bring.
134. Recommendations to overcome the challenges are described in Section 8.

## 8 RECOMMENDATIONS FOR FUTURE IMPLEMENTATION

135. Following the implementation of the project activities since the last PSC meeting, the PMO would like to make the following recommendations for the consideration of the PSC:
- (i) Regional and national co-operation and co-ordination have contributed largely to the successful implementation of the project. Therefore, it is recommended that the regional and national co-ordination and co-ordination should be further strengthened. In particular the role of IMCC should be strengthened.
  - (ii) The SAP for the Yellow Sea has been prepared with close consultation with the experts from the participating countries. Necessary actions have been taken to introduce the SAP to the governmental officers and experts of DPR Korea. It is recommended that all the stakeholders of the project take all necessary action to ensure the final endorsement of SAP, and consider relevant matters in implementing SAP.
  - (iii) Considering the importance to keep the momentum obtained from the project, and ensure effective implementation of SAP, the PSC instructed the PMO to start preparation of necessary documents for the 2<sup>nd</sup> phase of the project. It is recommended that the participating countries should positively consider the proposed actions in the draft PIF, including establishment of YSLME Commission and contribution of national co-financing resources for implementing the management actions proposed by the SAP.
  - (iv) It is important to involve all the coastal countries of the Yellow Sea in the project implementation. It is recommended that the all partners of the project positively consider the issue of full Involvement of DPR Korea in the project.

## Appendix I

### Activities and Workshops Convened by the Project in 2008

5-9 Jan	SAP Drafting Group 1, Yantai, China
12 Jan	Co-operative Cruises Launching Ceremony, Qingdao, China
21-22 Jan	Ocean Colour 3 Workshop, Sendai, Japan
14-16 Feb	Model UN with Korea University, Seoul, ROK
13-15 Mar	SAP Drafting Group 2, Yoo Sung, ROK
17-21 Mar	YSLME-KORDI-NMEMC Workshop on Capacity Building for Environmental Pollution Monitoring and Assessment, Dalian, China
14-16 Apr	1 <sup>st</sup> Fisheries Stock Assessment, Qingdao, China
6-7 May	3 <sup>rd</sup> Ad-hoc Working Group for SAP, Hangzhou, China
8 May	2 <sup>nd</sup> Special PSC Meeting, Hangzhou, China
19-23 May	World Aquaculture Society Conference, Busan, ROK
2-4 June	Marine Environmental Assessment Workshop, Shenyang, China
10-12 June	5 <sup>th</sup> Technical Meeting for Co-operative Cruises, Yantai, China
19-21 Aug	International Youth Programme, Buan, ROK
19-21 Aug	2 <sup>nd</sup> Fisheries Stock Assessment, Incheon, ROK
21-22 Aug	Introduction of TDA/SAP, Dalian, China
23-24 Aug	GIS Technical Workshop, Qingdao, China
26-28 Aug	1 <sup>st</sup> Phase 2 Working Group, Dalian, China
2-4 Sep	5 <sup>th</sup> RWG-Biodiversity Meeting, Weihai, China
9-11 Sep	Regional Mariculture Conference, Qingdao, China
23-25 Sep	5 <sup>th</sup> RWG-Ecosystem Meeting, Taean, ROK
23-25 Sep	5 <sup>th</sup> RWG-Fisheries Meeting, Shanghai, China
5-6 Oct	2 <sup>nd</sup> Phase 2 Working Group, Shanghai, China
8-10 Oct	5 <sup>th</sup> RWG-Pollution Meeting, Xiamen, China
14-16 Oct	5 <sup>th</sup> RWG-Investment Meeting, Shanghai, China

27 Oct	International Wetlands Symposium, Changwon, ROK
2 Nov	YSP-3, Changwon, ROK
25-26 Nov	5 <sup>th</sup> RSTP Meeting, Shanghai, China
27-28 Nov	5 <sup>th</sup> PSC Meeting, Shanghai, China
15-16 Dec	YOC-2008 Final Workshop, Ansan, ROK



**Appendix II**  
**Expenditure Report for 2008**

					New Activity							
As of 4th Nov 2008					FY2008							
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008		
0.PMO	0.PMO	0A	Staff cost for Administration	1101	Programme Manager	86,575	-72,089	-14,418	-86,507	68		
				1102	Environ Officer	0	0	0	0	0		
				1103	Fisheries Officer	0	0	0	0	0		
				1104	Economist	0	0	0	0	0		
				1301	Secretary	15,498	-11,604	-2,321	-13,925	1,573		
				1302	Driver	12,926	-9,636	-1,927	-11,563	1,363		
				1303	Adm. Asst.	15,498	-11,604	-2,321	-13,925	1,573		
				1304	Finance & Adm. Officer	26,968	-19,135	-3,827	-22,961	4,007		
				1305	IT specialist	20,142	-15,286	-3,057	-18,343	1,799		
						<b>Sub Total</b>		<b>177,608</b>	<b>-139,354</b>	<b>-27,871</b>	<b>-167,224</b>	<b>10,383</b>
		0D	Premises	4101	Office supplies	9,000	-4,711	-1,000	-5,711	3,289		
				4102	Library acquisitions	1,000	0	0	0	1,000		
				4104	Computer Software	500	0	0	0	500		
				4201	Computers	2,187	-2,345	0	-2,345	-158		
				4203	Printers	1,000	0	0	0	1,000		
		4204	Copy machine (small size)	0	0	0	0	0				

					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
				4205	PowerPoint OHP	0	0	0	0	0
				4206	Automobile	0	0	0	0	0
				4301	Office rent	0	0	0	0	0
				4302	Furniture	0	0	0	0	0
				4303	Premises costs	5,000	0	0	0	5,000
				5101	Rental & maint. of computer equip.	0	0	0	0	0
				5102	Rental & maint. of copiers	1,000	0	0	0	1,000
				5103	Repair & maint. of vehicles & insurance	8,000	-4,296	-1,800	-6,096	1,904
				5104	Rental & maint. of other office equip	2,500	0	0	0	2,500
				5105	Rental of meeting rooms & equip.	0	0	0	0	0
				5220	Publication (other than reports)	12,000	-2,222	-1,000	-3,222	8,778
				5221	Webpage design and updating	900	-569	0	-569	331
				5301	Communication	1,500	-759	-300	-1,059	441
				5302	Postage/freight	8,000	-4,082	-1,000	-5,082	2,918
				5303	Operation cost	19,660	-8,057	-2,000	-10,057	9,603
				New	Staff Charges	17,684	-13,875	-2,775	-16,650	1,034



					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
				5600	UNOPS Project Supporting Cost (6%)	16,052	-10,816	-2,265	-13,081	2,971
					<b>Sub Total</b>	<b>105,983</b>	<b>-51,732</b>	<b>-12,140</b>	<b>-63,872</b>	<b>42,111</b>
					<b>0.PMO Total</b>	<b>283,591</b>	<b>-191,086</b>	<b>-40,010</b>	<b>-231,096</b>	<b>52,494</b>
6.Cross Component	6.Cross Component	6A	Travel	1501	Project Staff Travel	77,800	-90,157	-20,134	-110,291	-32,491
				1601	Annual Tri Part Review (IVB)	0	0	0	0	0
				1602	Interviews/Travel (CTA Prospects) (IVB)	0	0	0	0	0
		6B	Meeting	3301	Project Steering Committee meetings	24,019	0	-18,568	-18,568	5,451
				3302	RSTP meetings	26,625	0	-33,500	-33,500	-6,875
				3303	Regional scientific conferences	0	0	0	0	0
		6C	Premises	4208	Sea-going equipment	6,466	0	0	0	6,466
				4210	Equipment unspecified	31,083	-31,037	0	-31,037	46
		6D	Contingencies	1223	Other consultant contracts	0	0	0	0	0
				2135	Other institutional contracts	17,534	-54,000	0	-54,000	-36,466
				2166	2 Regional cruise reports	15,000	0	0	0	15,000
				3102	Short term fellowship for training	0	0	0	0	0
				3217	Additional training activities	0	0	0	0	0
				3335	Additional meetings required	15,550	-15,550	0	-15,550	-0

					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
				<b>New</b>	Cruise Summary W/S	0	0	0	0	0
				<b>New</b>	Cross Component Demo	0	0	-17,000	-17,000	-17,000
				<b>New</b>	Phase 2 preparation - consultant	0	0	0	0	0
				<b>3349</b>	2 WGs for Phase 2	30,000	-20,872	0	-20,872	9,128
				<b>5219</b>	Printing cost for the additional reports	0	0	0	0	0
				<b>5401</b>	Exigency costs	2,396	-2,396	0	-2,396	0
				<b>5501</b>	Evaluation (consultants fees/travel/DSA)	0	0	0	0	0
				<b>New</b>	Staff Charges	247,258	-193,331	-38,666	-231,998	15,260
				<b>5606</b>	UNOPS Project Supporting Cost(6%)	29,624	-24,441	-7,672	-32,113	-2,489
					<b>Sub Total</b>	<b>523,354</b>	<b>-431,784</b>	<b>-135,540</b>	<b>-567,325</b>	<b>-43,970</b>
					<b>6.Cross Component Total</b>	<b>523,354</b>	<b>-431,784</b>	<b>-135,540</b>	<b>-567,325</b>	<b>-43,970</b>
1.Fisheries	1.Fisheries	1A	Stock assessment	<b>1201</b>	Development of Joint Stock Assessment Guidelines-Consultant	0	0	0	0	0
				<b>2101</b>	Institution Contracts for Data & Information collection	0	0	0	0	0

					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
				2102	Institution Contracts to Revise National Stock Assessment Data	0	0	0	0	0
				2103	Institution Contract to Perform Regional Stock Assessment (Cooperative Cruise)	0	0	0	0	0
				5201	Stock assessment report	0	0	0	0	0
				2150	Regional Stock Assessment ( 4cruises +3 expert consultations)	370,614	-369,233	0	-369,233	1,381
				1226	Young Scientist exchange	7,000	-5,306	0	-5,306	1,694
				2147	Demo - Effectiveness of closed season / area	9,000	-9,000	0	-9,000	0
				2149	Demo – Improvement in fisheries management system	20,000	-20,000	0	-20,000	0
				2148	Demo - Effectiveness of stock enhancement	15,000	-15,000	0	-15,000	0
				New	Exchange experiences among demo projects	0	0	0	0	0
				New	Other Contracts	0	0	0	0	0
				1225	Expert exchange programme	0	0	0	0	0

					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
		1B	Carrying capacity	1202	Developing Guidelines for Carrying Capacity Analysis-Consultant	0	0	0	0	0
				2104	Institution Contracts for Annual carrying capacity determination	0	0	0	0	0
				5202	Carrying capacity report	0	0	0	0	0
				2146	Carrying capacity technical guide line (mariculture)	0	0	0	0	0
				3338	Regional training for carrying capacity (mariculture)	5,687	-5,687	0	-5,687	0
		1C	Mariculture Production	1203	Development of Sustainable Mariculture-Consultant	0	0	0	0	0
				1701	Mariculture Advisor	0	0	0	0	0
				3344	Regional Mariculture Conference	35,000	-23,235	0	-23,235	11,765
				3345	World Aquaculture Society meeting	10,458	-10,458	0	-10,458	0
				2105	Institution Contracts to Implement mariculture techniques (Demonstration Projects).	160,000	-60,000	-100,000	-160,000	0

					New Activity						
As of 4th Nov 2008					FY2008						
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008	
				3202	Reg. training on mariculture techniques	0	0	0	0	0	
				3203	Reg training on disease diagnosis, prevention and control	0	0	0	0	0	
		1D	Fisheries Management - Regional Agreements, National Laws & Management Plan for Fisheries	1204	Feasibility study on the regional agreement,i.e. FAO code of conduct	0	0	0	0	0	
				1205	Prepare regional Agreement on Legislation-Consultant	0	0	0	0	0	0
				1206	SAP-fisheries-Consultant	0	0	0	0	0	0
				2106	Institution Contracts to Implement Reg Fisheries and ecosystem Management / Implementation Plans	0	0	0	0	0	0
				5203	Publication of regional fisheries agreement	0	0	0	0	0	0
	1.Fisheries	1E	Meetings	3304	RWG-F Meeting 1	0	0	0	0	0	
				3305	RWG-F Meeting 2	0	0	0	0	0	0
				3306	RWG-F Meeting 3	0	0	0	0	0	0
				3307	RWG-F Meeting 4	0	0	0	0	0	0
				3308	RWG-F Meeting 5	20,000	-13,605	0	-13,605	6,395	
				3309	RWG-F Meeting 6	0	0	0	0	0	

					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
					<b>Sub Total</b>	<b>652,759</b>	<b>-531,525</b>	<b>-100,000</b>	<b>-631,525</b>	<b>21,234</b>
	1.Fishery_ Cross Component	1A	Stock assessment	2107	Ship rental	702,906	-702,905	0	-702,905	1
				4207	Equipment for regional survey (f)	0	0	0	0	0
				3336	2nd & 3rd Technical Meeting for the Cooperative Cruise	0	0	0	0	0
		1F	Project Supporting Cost	5304	Operation cost	0	0	0	0	0
				New	Staff Charges	111,372	-88,419	-17,684	-106,102	5,269
				5601	UNOPS Project Supporting Cost(6%)	88,022	-79,371	-7,061	-86,432	1,590
					<b>Sub Total</b>	<b>902,300</b>	<b>-870,695</b>	<b>-24,745</b>	<b>-895,439</b>	<b>6,861</b>
					<b>1.Fisheries Total</b>	<b>1,555,059</b>	<b>-1,402,220</b>	<b>-124,745</b>	<b>-1,526,964</b>	<b>28,095</b>

					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
2.Biodiversity	2.Biodiversity	2A	Habitat Conservation (Activity 1 to 3) & Vulnerable Species (Activity 2 to 5)	1208	Review of National Practice of Coastal Habitats and Vulnerable Species-Consultant	0	0	0	0	0
				2108	Institution Contracts to review existing national practices of coastal habitat use, conservation & restoration	0	0	0	0	0
				2109	Institution Contracts to Implement Regional Strategy for Conservation Areas	199,985	-140,000	-59,985	-199,985	0
				New	Management improvement in demo site	0	0	0	0	0

					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
				New	Public awareness in demo site	0	0	0	0	0
				New	Demonstration sites assessment	0	0	0	0	0
				New	Senior local government Exchange programme Wadden sea	0	0	0	0	0
				New	Other Contracts	0	0	0	0	0
				2151	Management effectiveness of reserves (two country reports)	13,900	-15,422	-10,000	-25,422	-11,522
				2152	Regional training for Reserve managers ( 2 meetings in local language)	0	0	0	0	0
				5204	Review national practices of coastal habitat use, conservation, and restoration-Printing costs	0	0	0	0	0



					New Activity						
As of 4th Nov 2008					FY2008						
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008	
				5205	Review of status of vulnerable species and vulnerable trophic linkages-Printing costs	0	0	0	0	0	
		2B	Genetic Diversity	1702	Biodiversity Advisor	0	0	0	0	0	
				New	Printing cost for habitat status and Genetic review	0	0	0	0	0	0
				2153	Review of Genetic diversity in fleshy shrimp	20,000	-17,500	-2,500	-20,000	0	
				2144	Genetic diversity	4,500	0	-4,500	-4,500	0	
		2C	Meetings	3310	RWG-B Meeting 1	0	0	0	0	0	
				3311	RWG-B Meeting 2	0	0	0	0	0	
				3312	RWG-B Meeting 3	0	0	0	0	0	
				3313	RWG-B Meeting 4	0	0	0	0	0	
				3314	RWG-B Meeting 5	17,500	-10,043	-1,395	-11,438	6,062	
				3315	RWG-B Meeting 6	0	0	0	0	0	
					<b>Sub Total</b>	<b>255,885</b>	<b>-182,965</b>	<b>-78,380</b>	<b>-261,345</b>	<b>-5,460</b>	
	2.Biodiversity_Cross Component	2C	Meetings	3337	Cross Component Conference (RSTP3)	0	0	0	0	0	
		2D	Project Supporting Cost	5305	Operation cost	0	0	0	0	0	
				New	Staff Charges	34,644	-27,504	-5,501	-33,005	1,639	

					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
				5602	UNOPS Project Supporting Cost(6%)	17,432	-12,628	-5,033	-17,661	-229
					<b>Sub Total</b>	<b>52,076</b>	<b>-40,132</b>	<b>-10,534</b>	<b>-50,666</b>	<b>1,410</b>
					<b>2.Biodiversity Total</b>	<b>307,961</b>	<b>-223,097</b>	<b>-88,913</b>	<b>-312,011</b>	<b>-4,050</b>
3.Ecosystem	3.Ecosystem	3A	Status of Ecosystem	1216	Regional data synthesis - Institution Contracts	0	0	0	0	0
				1703	Ecosystem Advisor	1,486	-1,486	0	-1,486	0
				2118	Institution Contracts - Nat'l data & Info collection	0	0	0	0	0
				2119	Institution Contracts for Demonstration of new and innovative technologies for monitoring (FRRF)	14,650	-6,466	-14,650	-21,116	-6,466
				3208	Reg training (estimation) on carrying capacity of ecosystem (CPR)	0	0	0	0	0
				2121	Institution Contracts for cooperative study cruise - ecosystem	187,744	-157,685	-30,059	-187,744	-0

					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
				3334	Regional workshop on remote sensing for monitoring ecosystem	0	0	0	0	0
				2136	Spring cruise benthos and sediment core	9,366	-9,366	0	-9,366	0
				2137	Intercalibration	31,806	-31,806	0	-31,806	0
		3B	Carrying Capacity of Ecosystem	1217	Prepare guidelines for ecosystem carrying capacity-Consultant	0	0	0	0	0
				5211	Publish report on carrying capacity-Printing costs	0	0	0	0	0
		3C	Stressors to Ecosystem	1218	ID and rank stresses to ecosystem-Consultant ( regional monitoring)	10,000	-3,000	-7,000	-10,000	0
				2120	Institution Contracts to develop long-term sustainable investments & lessen stress to ecosystem	0	0	0	0	0
				2155	Demo - Institution contract for jellyfish monitoring	75,000	-45,000	-45,000	-90,000	-15,000
				2154	Demo - Institution contract for effects of climate change	20,000	-24,400	0	-24,400	-4,400
				2167	demo-NPSi ratio	16,000	-19,700	0	-19,700	-3,700

					New Activity						
As of 4th Nov 2008					FY2008						
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008	
				<b>New</b>	Macroalgae bloom	0	0	0	0	0	
				<b>New</b>	Jellyfish network	0	0	0	0	0	
				<b>New</b>	Other Contracts	0	0	0	0	0	
				5212	Publish reports-Stresses to ecosystem-Printing costs	0	0	0	0	0	
		3D	Meetings	3322	RWG-E Meeting 1	0	0	0	0	0	
				3323	RWG-E Meeting 2	0	0	0	0	0	0
				3324	RWG-E Meeting 3	0	0	0	0	0	0
				3325	RWG-E Meeting 4	0	0	0	0	0	0
				3326	RWG-E Meeting 5	15,000	-9,391	0	-9,391	5,609	
				3327	RWG-E Meeting 6	0	0	0	0	0	0
					<b>Sub Total</b>	<b>381,052</b>	<b>-308,300</b>	<b>-96,709</b>	<b>-405,009</b>	<b>-23,957</b>	
	3.Ecosystem _Cross Component	3E	Project Supporting Cost	5306	Operation cost	0	0	0	0	0	
				<b>New</b>	Staff Charges	60,902	-47,870	-9,574	-57,444	3,458	
				5603	UNOPS Project Supporting Cost(6%)	26,517	-21,370	-6,377	-27,747	-1,230	
					<b>Sub Total</b>	<b>87,419</b>	<b>-69,240</b>	<b>-15,951</b>	<b>-85,191</b>	<b>2,228</b>	
					<b>3.Ecosystem Total</b>	<b>468,471</b>	<b>-377,540</b>	<b>-112,660</b>	<b>-490,200</b>	<b>-21,728</b>	

					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
4.Pollution	4.Pollution	4A	Contaminant Inputs (Critical Spots)	1211	Regional data synthesis - consultant	0	0	0	0	0
				2111	Institution Contracts - nat'l data & info collection	7,000	0	0	0	7,000
				5206	Publish report-reg'l data synthesis-Printing costs	0	0	0	0	0
				1224	Visiting Scientist Programme	5,000	-4,373	-627	-5,000	-0
		4B	Contaminant Levels	1212	Reg'l monitoring guidelines; indicators to assess convention implementation-consultant (IAEA)	0	0	0	0	0
				2112	Institution Contracts for cooperative study cruise	175,101	-156,552	-18,549	-175,101	-0
				2113	Institution Contracts for Intercalibration exercise (QHSS+IAEA)	0	0	0	0	0
				3206	Training on contaminant monitoring (phytotoxin)	20,000	-19,640	-360	-20,000	0
				3218	Training Course assessing marine environment quality	19,731	-16,069	0	-16,069	3,662
				3219	Level 2 Training Courses (Joint with AMETEC)	17,906	-21,121	0	-21,121	-3,215

					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
				3339	Intercalibration Summary Workshop	0	0	0	0	0
				2157	Institution contract for IC nutrients Rd 3	0	0	0	0	0
				2156	Institution contract for IC metals org Rd2	0	0	0	0	0
		4C	Analysis of the Fate and Transport of Contaminants to Facilitate SAP Analysis	2115	Institution Contracts for Practice & Intercalibration - fate & transport of contaminants	0	0	0	0	0
				2116	Institution Contracts for ICM actions for controlling discharge of contaminants and nutrients	0	0	0	0	0
				5210	Publish report-Fate and transport of contaminants-Printing costs	0	0	0	0	0
		4D	Regional Strategy Pollution Control	1213	Reg'l synthesis contaminant fate and transport-Consultant(IC)	0	0	0	0	0
				1215	Reg'l investment strategy & imp. plan pollution control - Consultant (IAEA)	0	0	0	0	0

					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
				2114	Institution Contracts to implement regional pollution control strategies	0	0	0	0	0
				2117	Institution Contracts to implement contaminant remediation/prevention	0	0	0	0	0
				3346	Experience exchange for LME visit	0	0	0	0	0
				2159	Demo - Institution contract for HS nutrient load	26,000	-38,000	0	-38,000	-12,000
				2162	Demo - Institution contract for sea-based nutrient source	12,800	-16,000	0	-16,000	-3,200
				2158	Demo - Institution contract for atmosphere deposition	20,000	0	-24,800	-24,800	-4,800
				2160	Demo - Institution contract for Public awareness	20,000	0	0	0	20,000
				2161	Demo - Institution contract for recreational waters management	10,000	-12,500	0	-12,500	-2,500
				New	Interlinkage assessment of Demo projects	0	0	0	0	0

					New Activity						
As of 4th Nov 2008					FY2008						
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008	
8				New	Other Contracts	0	0	0	0	0	
				5207	Publish regional invest. strategy-Printing costs	0	0	0	0	0	
				5209	Publish reg'l strategy activity results-Printing costs	0	0	0	0	0	
	4.Pollution	4E	Meetings	3316	RWG-P Meeting 1	0	0	0	0	0	
				3317	RWG-P Meeting 2	0	0	0	0	0	0
				3318	RWG-P Meeting 3	0	0	0	0	0	0
				3319	RWG-P Meeting 4	0	0	0	0	0	0
				3320	RWG-P Meeting 5	17,500	-13,599	0	-13,599	3,901	
				3321	RWG-P Meeting 6	0	0	0	0	0	
							<b>Sub Total</b>	<b>351,038</b>	<b>-297,854</b>	<b>-44,336</b>	<b>-342,190</b>
	4.Pollution_Cross Component	4F	Project Supporting Cost	5307	Operation cost	0	0	0	0	0	
				New	Staff Charges	61,799	-48,575	-9,715	-58,290	3,509	
				5604	UNOPS Project Supporting Cost(6%)	24,770	-20,786	-3,243	-24,029	741	
					<b>Sub Total</b>	<b>86,570</b>	<b>-69,361</b>	<b>-12,958</b>	<b>-82,319</b>	<b>4,251</b>	
					<b>4.Pollution Total</b>	<b>437,607</b>	<b>-367,214</b>	<b>-57,294</b>	<b>-424,508</b>	<b>13,099</b>	
				1227	Public awareness assistant	15,000	-15,000	0	-15,000	0	



					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
5.Investment	5.Investment	5A	Stakeholders & Public Awareness	2123	Institution Contracts for Governance analysis	0	0	0	0	0
				2124	Institution Contracts for The Yellow Sea and Youth	16,000	-19,616	0	-19,616	-3,616
				2125	Institution Contracts to Organize regular stakeholders conference (1/yr)	4,000	-3,914	0	-3,914	86
				2130	Institution Contracts to Organize public awareness conferences	3,500	-3,500	0	-3,500	0
				2131	Institution Contracts to Prepare public awareness materials	8,840	-2,809	-6,031	-8,840	0
				2132	Institution Contracts to Produce multi-media, e.g., project pins, mouse pads, posters, etc.	0	0	0	0	0
				2138	Partnership Workshop	0	0	0	0	0

					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
				2139	EAS Congress Workshop and Joint Session	0	0	0	0	0
				2140	Parliamentary Workshop	0	0	0	0	0
				2145	Regional governance analysis	14,439	-14,439	0	-14,439	0
				3101	Associate expert	14,440	-12,310	-3,000	-15,310	-870
				3210	Training for decision makers	0	0	0	0	0
				3211	Training for community trainers	0	0	0	0	0
				3212	Training for local governmental officers	0	0	0	0	0
				3216	Public awareness training	0	0	0	0	0
				3340	2nd Training for local governmental officers	0	0	0	0	0
				3341	2nd Partnership Workshop	0	0	0	0	0
				3342	2nd Parliamentary Workshop	0	0	0	0	0
				5214	Print newsletters	1,936	-1,396	-540	-1,936	0
		5B	TDA & SAP (Regional Coordination)	1219	Prepare TDA-Consultant	0	0	0	0	0
				1220	Prepare regional SAP-Consultant	15,000	-15,000	0	-15,000	0
				1706	TDA NPPP	0	0	0	0	0
				3343	SAP consultation	17,330	-17,330	0	-17,330	-0

					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
				2126	Institution Contracts to Prepare NYSAP	98,500	-10,000	-67,000	-77,000	21,500
				3347	SAP drafting group	25,491	-10,491	0	-10,491	15,000
				3348	Special PSC for SAP	11,473	-11,473	0	-11,473	0
				2165	Political social acceptance analysis	42,000	-33,600	-8,400	-42,000	0
				2164	CBA of demonstration	78,000	0	-12,400	-12,400	65,600
				5215	Print the final TDA	4,931	-4,931	0	-4,931	0
				5216	Print NYSAP	0	0	0	0	0
				5217	Print regional SAP	0	0	0	0	0
				New	Print the CBA of demonstration	0	0	0	0	0
				New	Preparation of commission document	0	0	0	0	0
				New	Other Contracts	0	0	0	0	0
				2141	Regional valuation guideline	15,110	-13,309	0	-13,309	1,801
				2163	Case study	0	0	0	0	0
		5C	National Coordination (Institutions)	1704	NCU Coordinator (K)	63,736	-48,448	-15,288	-63,736	0
	5.Investment			1705	NCU Coordinator (C)	34,800	-30,380	-4,420	-34,800	0
				2127	Institution Contracts to analyse institutional arrangements	0	0	0	0	0

					New Activity						
As of 4th Nov 2008					FY2008						
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008	
				2133	National co-ordinating mechanism (C)	25,580	-40,000	0	-40,000	-14,420	
				2134	National co-ordinating mechanism (K)	10,428	0	-10,428	-10,428	0	
				3213	Training on Project document preparation	0	0	0	0	0	
				3214	Training on Fund raising	0	0	0	0	0	
		5D	Data and Information Management	1222	Developed regional data & info systems-Consultant	7,000	0	0	0	7,000	
				1707	DIM Consultants	5,000	0	0	0	0	5,000
				3215	Training on DIM	15,000	-14,966	0	-14,966	34	
				4103	GIS Software	0	0	0	0	0	
				4202	GIS workstation	3,802	0	0	0	3,802	
				4209	Equipment for DIM	0	0	0	0	0	
				2143	Maintenance of Meta and GIS Databases	29,560	-17,560	-4,500	-22,060	7,500	
		5E	Meetings	3328	RWG-I Meeting 1	0	0	0	0	0	
				3329	RWG-I Meeting 2	0	0	0	0	0	
				3330	RWG-I Meeting 3	0	0	0	0	0	
				3331	RWG-I Meeting 4	0	0	0	0	0	
				3332	RWG-I Meeting 5	17,500	-11,256	0	-11,256	6,244	
				3333	RWG-I Meeting 6	0	0	0	0	0	

					New Activity					
As of 4th Nov 2008					FY2008					
Activity	Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Yr2008	Actual Exp JAN-OCT	Estimated Exp NOV-DEC	Total Expenditure	Budget Balance Yr 2008
					<b>Sub Total</b>	<b>598,396</b>	<b>-351,727</b>	<b>-132,007</b>	<b>-483,734</b>	<b>114,662</b>
	5.Investment _Cross Component	5F	Financial Sustainability (Instruments)	2129	Demonstration projects on sustainable investment	0	0	0	0	0
				2142	Small Grants Projects	70,698	-38,718	-24,980	-63,698	7,000
		5G	Project Supporting Cost	5308	Operation cost	0	0	0	0	0
				New	Staff Charges	113,749	-87,507	-17,501	-105,008	8,741
				5605	UNOPS Project Supporting Cost(6%)	46,971	-28,677	-10,469	-39,146	7,824
						<b>Sub Total</b>	<b>231,417</b>	<b>-154,901</b>	<b>-52,951</b>	<b>-207,852</b>
					<b>5.Investment Total</b>	<b>829,813</b>	<b>-506,628</b>	<b>-184,957</b>	<b>-691,585</b>	<b>138,228</b>
					<b>Grand Total</b>	<b>4,405,857</b>	<b>-3,499,569</b>	<b>-744,120</b>	<b>-4,243,690</b>	<b>162,168</b>



Appendix III

PMO's Inventory of Non-Expendable Property

Period	PROJECT EXPENDITURE						EXPENDITURE AMOUNT		Autho- rization	Ref
	BUDGET LINES	ACCOUNT	ACCOUNT DESCRIPTION				LC	US\$ equi		
Dec.04	4205	72800	Office Equipment	LCD Projector	O-04-001	PLC- XT15KA(SANYO)	KRW 3,540,000	<b>3,361.82</b>	<b>34</b>	
Dec.04	4205	72800	Office Equipment	Scanner	O-04-002	EPSON Perfection 1270	KRW 102,000	<b>96.87</b>	<b>34</b>	
Dec.04	4201	72800	IT Equipment	Lap-top Computer	I-04-001	Toshiba	KRW 1,960,000	<b>1,861.35</b>	<b>34</b>	Inculding OS Software(130,000)
Dec.04	4201	72800	IT Equipment	Lap-top Computer	I-04-002	Toshiba	KRW 1,960,000	<b>1,861.35</b>	<b>34</b>	Inculding OS Software(130,000)
Dec.04	4302	72200	Furniture	Partition	F-04-001	KF124 * 2	KRW 354,400	<b>336.56</b>	<b>34</b>	
<b>Jul.05</b>	<b>4302</b>	<b>72200</b>	<b>Furniture</b>	<b>Partition</b>	F-04-001	<b>(KF124 * 2)</b>	<b>-KRW 91,314</b>	<b>(89.17)</b>		<b>Disposal on 2005</b>
Dec.04	4302	72200	Furniture	Partition	F-04-001	KF104W * 5	KRW 775,500	<b>736.47</b>	<b>34</b>	
<b>Jul.05</b>	<b>4302</b>	<b>72200</b>	<b>Furniture</b>	<b>Partition</b>	F-04-001	<b>(KF104W * 5)</b>	<b>-KRW 28,904</b>	<b>(28.23)</b>		<b>Disposal on 2005</b>
Dec.04	4302	72200	Furniture	Partition	F-04-001	KF084W *2	KRW 266,000	<b>252.61</b>	<b>34</b>	
Dec.04	4302	72200	Furniture	Connector	F-04-001	KF5214 T * 2	KRW 35,800	<b>34.00</b>	<b>34</b>	
Dec.04	4302	72200	Furniture	Connector	F-04-001	KF5114 L * 1	KRW 15,200	<b>14.43</b>	<b>34</b>	
Dec.04	4302	72200	Furniture	Connector	F-04-001	KF6014 * 6	KRW 49,800	<b>47.29</b>	<b>34</b>	
Dec.04	4302	72200	Furniture	Partition	F-04-001	KF126 * 5	KRW 1,055,000	<b>1,001.90</b>	<b>34</b>	
<b>Jul.05</b>	<b>4302</b>	<b>72200</b>	<b>Furniture</b>	<b>Partition</b>	F-04-001	<b>(KF126 * 5)</b>	<b>-KRW 42,527</b>	<b>(41.53)</b>		<b>Disposal on 2005</b>
Dec.04	4302	72200	Furniture	Partition	F-04-001	KF106 * 2	KRW 357,200	<b>339.22</b>	<b>34</b>	
<b>Jul.05</b>	<b>4302</b>	<b>72200</b>	<b>Furniture</b>	<b>Partition</b>	F-04-001	<b>(KF106 * 2)</b>	<b>-KRW 15,649</b>	<b>(15.28)</b>		<b>Disposal on 2005</b>
Dec.04	4302	72200	Furniture	Connector	F-04-001	KF5216 T * 1	KRW 21,400	<b>20.32</b>	<b>34</b>	
Dec.04	4302	72200	Furniture	Connector	F-04-001	KF5116 L * 1	KRW 20,000	<b>18.99</b>	<b>34</b>	
Dec.04	4302	72200	Furniture	Connector	F-04-001	KF6016 * 5	KRW 48,500	<b>46.06</b>	<b>34</b>	

Period	PROJECT EXPENDITURE						EXPENDITURE AMOUNT		Autho- rization	Ref
	BUDGET LINES	ACCOUNT	ACCOUNT DESCRIPTION				LC	US\$ equi		
Jul.05	4302	72200	Furniture	Partition	F-04-001	(KF6016 * 4)	-KRW 5,706	(5.57)		Disposal on 2005
Dec.04	4302	72200	Furniture	Multi-Bar	F-04-001	KA0012 * 6	KRW 103,200	98.01	34	
Dec.04	4302	72200	Furniture	Multi-Bar	F-04-001	KA0008 * 1	KRW 12,400	11.78	34	
Dec.04	4302	72200	Furniture	Horizontal Shelf	F-04-001	KA0101 * 7	KRW 28,700	27.26	34	
Dec.04	4302	72200	Furniture	Supplies Shelf	F-04-001	KA0104 * 7	KRW 24,500	23.27	34	
Dec.04	4302	72200	Furniture	Pencil Case	F-04-001	KA0106 * 7	KRW 14,700	13.96	34	
Dec.04	4302	72200	Furniture	Shelve	F-04-001	KT3312 * 3	KRW 429,000	407.41	34	
Dec.04	4302	72200	Furniture	Chair	F-04-002	CH2301	KRW 112,500	106.84	34	
Dec.04	4302	72200	Furniture	Shelve	F-04-001	KT3010 * 3	KRW 130,200	123.65	34	
Dec.04	4302	72200	Furniture	Cabinet	F-04-003	SC0085W5 * 2	KRW 252,400	239.70	34	
Dec.04	4302	72200	Furniture	Cabinet	F-04-004	SB0082W2 * 2	KRW 95,400	90.60	34	
Dec.04	4302	72200	Furniture	Cabinet	F-04-005	SC0085W5 * 4	KRW 505,200	479.77	34	
Dec.04	4302	72200	Furniture	Cabinet	F-04-006	SC0082W2 * 1	KRW 86,900	82.53	34	
Dec.04	4302	72200	Furniture	Cabinet Door	F-04-004	SB0082W2 * 5	KRW 238,500	226.50	34	
Dec.04	4302	72200	Furniture	Conference Table	F-04-007	SR118	KRW 214,500	203.70	34	
Dec.04	4302	72200	Furniture	Chair	F-04-008	CH0011AF * 6	KRW 605,400	574.93	34	
Dec.04	4302	72200	Furniture	Folding Table	F-04-009	CR9006 * 1	KRW 116,800	110.92	34	
Dec.04	4302	72200	Furniture	Cabinet	F-04-0010	SC982F 800	KRW 111,000	105.41	34	
Dec.04	4302	72200	Furniture	Cabinet	F-04-0011	SC982C 800	KRW 367,600	349.10	34	
Dec.04	4302	72200	Vehicle	Motor Vehicle	V-04-001	Hyundai Trajet 2.0 A/T	KRW 24,094,000	22,881.29	30	
Jul.05	4104/4201	72800	IT Equipment	Office Software	I-05-001	Windows XP Pro (Kor)	355,000	354.65	PO%192 81-44,45	krw 355,000 * 1ea
Jul.05	4104/4201	72800	IT Equipment	Office Software	I-05-002	MS windows XP Pro (Eng)	1,155,000	1,153.85	PO%192 81-44,45	krw 385,000 * 3ea
Jul.05	4104/4201	72800	IT Equipment	Office Software	I-05-003	MS windows XP Pro - OLP NL (Eng)	3,390,000	3,386.61	PO%192 81-44,45	krw 565,000 * 6ea
Jul.05	4104/4201	72800	IT Equipment	Office Software	I-05-004	H Office 2003 Pro - OLP NL (Kor)	456,000	455.54	PO%192 81-44,45	krw 456,000 * 1ea
Jul.05	4104/4201	72800	IT Equipment	Office Software	I-05-005	Acrobat 7.0 Std		899.10	PO%192	krw 300,000 * 3ea



Period	PROJECT EXPENDITURE						EXPENDITURE AMOUNT		Autho- rization	Ref
	BUDGET LINES	ACCOUNT	ACCOUNT DESCRIPTION				LC	US\$ equi		
						(Eng)	900,000		81-44,45	
Nov.05	4104	72800	IT Equipment	Office Software	I-05-006	MS Project 2003 Std - OLP NL (Eng)	650,000	623.20	PO#293 86-14	1ea
Nov.05	4201	72800	IT Equipment	Lap-top Computer	I-05-007	Fujitsu S6240- SDM16	1,700,000	1,629.91	PO#293 86-13	
Apr.05	4201	72800	IT Equipment	Portable Hard Disk	I-05-008		CNY 640	77.91	PO#192 81-44	
May.05	4201	72800	IT Equipment	Lap-top Computer	I-05-009	Fujitsu S7011SF16	KRW 1,760,000	1,777.60	PO#192 81-44	
Jun.05	4201	72800	IT Equipment	DVD Read/Writer	I-05-0010			198.98	PO#192 81-44	
Mar.05	4204	72200	Office Equipment	Copy machine	O-05-001	Cannon IC-D380H	KRW 550,000	550.00	PO#178 11-01	
Apr.05	4210	72200	Office Equipment	Digital Camera	O-05-002	Nikon Coolpix3700	KRW 279,000	281.36	PO#192 81-38	
Apr.05	4210	72200	Office Equipment	Type Writer	O-05-003	ET-3800 Kyungbang Co.	KRW 200,000	201.69	PO#178 11-07	
May.05	4210	72200	Office Equipment	Safety Box	O-05-004	Bum II ESD- 104A(Digital Double Locking)	KRW 299,000	301.99	PO#192 81-38	
May.05	4210	72200	Office Equipment	Conference Call Machine	O-05-005	SoundPointPro225	KRW 370,000	372.38	PO#192 81-38	
Jul.05	4302	72200	Furniture	Task Chair	F-05-002	CH0011AF * 8 (615*530*785)	KRW 896,000	883.72	PO#192 81-39	KRW 112,000
Jul.05	4302	72200	Furniture	Famillia Chair	F-05-003	CH2301 * 1 (620*595*870~970)	KRW 125,000	123.29	PO#192 81-39	KRW 125,000
Jul.05	4302	72200	Furniture	Desk	F-05-004	TD016 * 2 (1600*800*720)	KRW 426,000	420.16	PO#192 81-39	KRW 213,000
Jul.05	4302	72200	Furniture	Extension desk	F-05-005	SD912F * 1 (600*1200*720)	KRW 139,000	137.09	PO#192 81-39	KRW 139,000
Jul.05	4302	72200	Furniture	Endless cabinet	F-05-006	SC982C * 2 (800*290*1920)	KRW 204,000	201.20	PO#192 81-39	KRW 102,000
Jul.05	4302	72200	Furniture	Square table	F-05-007	SR024S * 1 (2400*900*720)	KRW 312,000	307.72	PO#192 81-39	KRW 312,000
Jul.05	4302	72200	Furniture	Folding Table	F-05-008	CR9006 * 1	KRW 113,000	111.45	PO#192	KRW 113,000

Period	PROJECT EXPENDITURE						EXPENDITURE AMOUNT		Autho- rization	Ref
	BUDGET LINES	ACCOUNT	ACCOUNT DESCRIPTION				LC	US\$ equi		
						(590~610*480~520*7 20)			81-39	
Jul.05	4302	72200	Furniture	Partition	F-05-001	KF104W * 9 (1000*66*1370)	KRW 1,557,000	1,535.65	PO#192 81-39	KRW 173,000
Jul.05	4302	72200	Furniture	Partition Frame	F-05-001	KF0104 * 2 (1000*34*1370)	KRW 96,000	94.68	PO#192 81-39	KRW 48,000
Jul.05	4302	72200	Furniture	Partition Frame	F-05-001	KF0124 * 5 (1200*34*1370)	KRW 265,000	261.37	PO#192 81-39	KRW 53,000
Jul.05	4302	72200	Furniture	Partition tile	F-05-001	KF1106 * 4 (1000*14*600)	KRW 104,000	102.57	PO#192 81-39	KRW 26,000
Jul.05	4302	72200	Furniture	Partition tile	F-05-001	KF1126 * 10 (1200*14*600)	KRW 300,000	295.89	PO#192 81-39	KRW 30,000
Jul.05	4302	72200	Furniture	L Shape connector	F-05-001	KF5114 L * 6 (H: 1370)	KRW 96,000	94.68	PO#192 81-39	KRW 16,000
Jul.05	4302	72200	Furniture	Endong	F-05-001	KF6014 * 10 (H: 1370)	KRW 90,000	88.77	PO#192 81-39	KRW 9,000
Jul.05	4302	72200	Furniture	Leg	F-05-001	KF8001 * 2	KRW 44,000	43.40	PO#192 81-39	KRW 22,000
Jul.05	4302	72200	Furniture	Shelf	F-05-001	KT3010 * 2 (1000*360*200)	KRW 96,000	94.68	PO#192 81-39	KRW 48,000
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	System Case_Portavrace DSR with Matte Box	NZD 419.61	309.84	PO%357 36-10	
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	Headphone_Sennhei ser HD202 Closed back monitor	NZD 56.00	41.35	PO%357 36-10	
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	Video Camcoder	NZD 4,747.50	3,505.55	PO%357 36-10	
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	Video Light HVL20DW2	NZD 112.50	83.07	PO%357 36-10	
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	Battery Pack - NPF970	NZD 483.76	357.21	PO%357 36-10	
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	AC Adaptor and Power Charger ACVQ1050D	NZD 237.96	175.71	PO%357 36-10	

Period	PROJECT EXPENDITURE						EXPENDITURE AMOUNT		Autho- rization	Ref
	BUDGET LINES	ACCOUNT	ACCOUNT DESCRIPTION				LC	US\$ equi		
Mar.06	4210	72200	Office Equipment	SONY Camcorder	O-06-001	Wireless Lavalier Mike Kit UWPC1	NZD 686.25	506.73	PO%357 36-10	
Mar.06	4210	72200	Office Equipment	SONY Camcorder	O-06-001	Tripod/Stand	NZD 151.88	112.15	PO%357 36-10	
Mar.06	4210	72200	Office Equipment	SONY Camcorder	O-06-001	DVCAM Tapes VF58CPKS	NZD 239.00	176.48	PO%357 36-10	
Mar.06	4210	72200	Office Equipment	SONY Camcorder	O-06-001	IEEE DV Cable	SGD 145.00	89.51	PO%357 36-10	
Mar.06	4210	72200	Office Equipment	SONY Camcorder	O-06-001	Headphone port adaptor	SGD 12.00	7.41	PO%357 36-10	
Mar.06	4210	72200	Office Equipment	SONY Camcorder	O-06-001	Memory Stick	SGD 95.00	58.64	PO%357 36-10	
Mar.06	4210	72200	Office Equipment	SONY Camcorder	O-06-001	Rain Cofer + Shipping		99.90	PO%357 36-10	
Feb.06	4201	72800	IT Equipment	Lap-top Computer	I-06-001	Toshiba M50-03601S	KRW 1,400,000	1,452.28	PO%357 36-15	
Jun.06	4201	72800	IT Equipment	Office Server	I-06-002	AS-PE1800 - Dell TM Power Edge TM 1800 Server	KRW 3,968,000	4,252.95	PO%415 57-12, PO%357 36-15	
Dec.06	4104	72800	IT Equipment	Office Software	I-06-003	Expert Choice Software	KRW 3,900,000	4,190.98	PO%539 03-03	
Nov.06	4205	72200	Office Equipment	LCD Projector	O-06-002	Sony CX20		1,560.00	PO%469 28-08	
Nov.06	4203	72200	Office Equipment	Printer	O-06-003	Cannon I90 Printer		250.00	PO%469 28-08	
Nov.06	4210	72200	Office Equipment	Scanner	O-06-004	Scanner HP Scanjet7650	KRW 653,600	688.00	PO%469 28-08	
Jun.07	4302	72200	Furniture	Shelves	F-07-001	Shelving units for container	KRW 170,000	184.78	PO%619 23-16	
Jun.07	4302	72200	Furniture	Container	F-07-002	Container	KRW 1,200,000	1,304.34	PO%619 23-16	
Jun.07	4302	72200	Furniture	Double drawer	F-07-003	TP0312W (420*560*570)	KRW 264,000	286.96	PO%619 23-16	2EA
Jun.07	4302	72200	Furniture	Farmilar Chair	F-07-004	CH2301 (620*595*870~970)	KRW 126,000	136.96	PO%619 23-16	1EA

Period	PROJECT EXPENDITURE						EXPENDITURE AMOUNT		Author-ization	Ref
	BUDGET LINES	ACCOUNT	ACCOUNT DESCRIPTION				LC	US\$ equi		
Jun.07	4302	72200	Furniture	Topline Desk	F-07-005	TD016 (1600*800*720)	KRW 213,000	231.52	PO%619 23-16	1EA
Jun.07	4302	72200	Furniture	L-shape Connector	F-07-003	KF5514 (H:1370)	KRW 19,000	20.65	PO%619 23-16	1EA
Jun.07	4302	72200	Furniture	Partition	F-07-003	KF068W (600*66*1770)	KRW 154,000	167.39	PO%619 23-16	1EA
Jun.07	4302	72200	Furniture	Partition	F-07-003	KF108W (1000*66*1770)	KRW 220,000	239.13	PO%619 23-16	1EA
Jun.07	4302	72200	Furniture	Partition	F-07-003	KF128W (1200*66*1770)	KRW 256,000	278.26	PO%619 23-16	1EA
Jun.07	4302	72200	Furniture	L-shape Connector	F-07-003	KF5118 (H:1770)	KRW 24,000	26.09	PO%619 23-16	1EA
Jun.07	4302	72200	Furniture	Ending Connector	F-07-003	KF6018 (H:1770)	KRW 24,000	26.09	PO%619 23-16	2EA
Jun.07	4302	72200	Furniture	Folding Table	F-07-006	CR9006 (630*525*720)	KRW 260,000	282.61	PO%619 23-16	2EA
Aug.08	4201	72800	IT Equipment	Lap-top Computer	I-08-001	Lenovo Thinkpad	KRW 1,145,400	1,150.00	PO#101 563-03	
Aug.08	4201	72800	IT Equipment	Lap-top Computer	I-08-002	Lenovo Thinkpad	KRW 1,145,400	1,150.00	PO#101 563-03	
								76,469.69		
						IT Equipment		26,476.26		
						Furniture		13,924.50		
						Vehicle		22,881.29		
						Office Equipment		13,187.65		

## Appendix IV

### List of Acronyms

CBA	cost-benefit analysis
CDOM	coloured dissolved organic matter
CKJORC	China-Korea Joint Ocean Research Center
COP	conference of parties
CRM	certified reference material
DPRK	Democratic People's Republic of Korea
ECC	ecosystem carrying capacity
FIO	First Institute of Oceanography - China
FRRF	fast rate repetition fluorimeter
FSS	Forensic Scientific Services - Australia
GEF	Global Environment Facility
GIS	geographic information system
HAB	harmful algal bloom
HPLC	high performance liquid chromatography
IAEA-MEL	International Atomic Energy Agency-Marine Environmental Laboratory
ICC	International Coastal Cleanup
IMCC	Inter-ministerial Co-ordinating Committee
IMTA	integrated multi-trophic aquaculture
IW:LEARN	International Waters:Learning Exchange and Resource Network
KEI	Korea Environment Institute - ROK
KORDI	Korea Ocean Research and Development Institute
MLTM	Ministry of Land, Transport and Maritime Affairs - ROK
MOMAF	Ministry of Maritime Affairs and Fisheries - ROK
MoU	Memorandum of Understanding
NFRDI	National Fisheries Research and Development Institute - ROK
NGO	Non-Governmental Organisation
NMEMC	National Marine Environment Monitoring Center - China
NOWPAP	Northwest Pacific Action Plan
NPC	National Project Co-ordinator
NWG	National Working Group
NSAP	National Yellow Sea Action Plan
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PIF	Project Identification Form
PMO	Project Management Office
PSAA	political and social acceptance analysis
PSC	Project Steering Committee
PSP	paralytic shellfish poisoning
QA/QC	quality assurance/quality control
ROK	Republic of Korea
RSTP	Regional Scientific and Technical Panel
RWG	Regional Working Group
RWG-F, E, B, I	Regional Working Group – Fisheries, Ecosystem, Biodiversity, Investment
SAP	Strategic Action Programme
SOA	State Oceanic Administration - China
TDA	Transboundary Diagnostic Analysis
TSM	total suspended matter
UN	United Nations

UNDP	United Nations Development Programme
UNOPS	United Nations Office for Project Services
WESTPAC	Western Pacific (Intergovernmental Oceanographic Commission of UNESCO, Sub-commission)
WSMRI	West Sea Mariculture Research Institute - ROK
WWF	World Wide Fund for Nature
YSESP	Yellow Sea Ecoregion Support Project
YSFRI	Yellow Sea Fisheries Research Institute - China
YSLME	Yellow Sea Large Marine Ecosystem
YSP	Yellow Sea Partnership

## **Annex V**

### **Approved Budget for 2009 and Onwards**

# Revised Budget for 2009 and Onwards

As of 3rd Dec 2008

4th RSTP/PSC 2008.11.04

						FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010		
Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Yr 2007	Total Expenditure	Yr2009	Yr2010	
0.PMO	0A	Staff cost for Administration	1101	Programme Manager	1,195,932	536,019	-35,268	-76,859	-86,265	-88,760	-86,507	103,153	59,207	
			1102	Environ Officer	679,250	0	0	0	0	0	0	0	0	0
			1103	Fisheries Officer	548,872	0	0	0	0	0	0	0	0	0
			1104	Economist	540,542	0	0	0	0	0	0	0	0	0
			1301	Secretary	180,381	81,005	0	-11,706	-13,937	-15,046	-13,925	17,846	8,544	
			1302	Driver	155,010	69,506	0	-10,637	-12,702	-12,544	-11,563	14,935	7,125	
			1303	Adm. Asst.	193,377	87,394	0	-12,665	-13,937	-20,477	-13,925	17,846	8,544	
			1304	Finance & Adm. Officer	315,854	140,545	-1,606	-21,330	-22,477	-24,981	-22,961	32,323	14,866	
			1305	IT specialist	193,222	86,141	0	-12,199	-13,937	-15,046	-18,343	18,073	8,544	
	<b>Sub Total</b>					<b>4,002,441</b>	<b>1,000,610</b>	<b>-36,874</b>	<b>-145,395</b>	<b>-163,257</b>	<b>-176,854</b>	<b>-167,224</b>	<b>204,176</b>	<b>106,829</b>
	0D	Premises	4101	Office supplies	37,502	37,548	-913	-6,148	-5,837	-6,723	-5,711	7,716	4,500	
			4102	Library acquisitions	1,654	655	0	0	-357	-38	0	259	0	
			4104	Computer Software	11,482	10,982	-640	-5,618	-4,191	-33	0	500	0	
			4201	Computers	35,490	21,127	-5,399	-5,097	-5,705	-582	-2,345	2,000	0	
			4203	Printers	250	250	0	0	-250	0	0	0	0	
			4204	Copy machine (small size)	550	550	0	-550	0	0	0	0	0	
			4205	PowerPoint OHP	5,019	5,019	-3,459	0	-1,560	0	0	0	0	
			4206	Automobile	22,881	22,881	-22,881	0	0	0	0	0	0	
			4301	Office rent	0	0	0	0	0	0	0	0	0	
			4302	Furniture	14,283	14,283	-6,123	-4,617	0	-3,543	0	0	0	
			4303	Premises costs	10,000	7,500	0	0	0	0	0	5,000	2,500	
			5101	Rental & maint. of computer equip.	6,000	4,500	0	0	0	0	0	3,000	1,500	
			5102	Rental & maint. of copiers	3,000	1,000	0	0	0	0	0	500	500	
			5103	Repair & maint. of vehicles & insurance	27,752	30,629	0	-4,088	-3,309	-4,007	-6,096	8,752	4,376	
			5104	Rental & maint. of other office equip	5,000	3,500	0	0	0	0	0	2,500	1,000	
			5105	Rental of meeting rooms & equip	4,000	0	0	0	0	0	0	0	0	
			5220	Publication (other than reports)	49,221	38,358	0	-5,026	-13,758	-3,635	-3,222	12,216	500	
5221			Webpage design and updating	2,559	3,583	0	-356	-445	-782	-569	931	500		
5301	Communication	55,100	28,552	-6,139	-15,558	-2,041	-1,255	-1,059	1,500	1,000				
5302	Postage/freight	17,387	27,989	0	-1,456	-5,255	-3,928	-5,082	8,267	4,000				
5303	Operation cost	64,242	106,168	-67	-11,550	-22,173	-29,053	-10,057	19,269	14,000				
	New	Staff Charges		0	99,628	-3,672	-14,477	-16,255	-17,609	-16,650	20,329	10,637		
	5600	UNOPS Project Supporting Cost (6%)		262,549	87,919	-5,170	-13,196	-14,664	-14,883	-13,081	17,815	9,111		
<b>Sub Total</b>					<b>635,920</b>	<b>552,620</b>	<b>-54,462</b>	<b>-87,736</b>	<b>-95,800</b>	<b>-86,071</b>	<b>-63,872</b>	<b>110,554</b>	<b>54,123</b>	
<b>0.PMO Total</b>					<b>4,638,361</b>	<b>1,553,230</b>	<b>-91,336</b>	<b>-233,131</b>	<b>-259,057</b>	<b>-262,926</b>	<b>-231,096</b>	<b>314,731</b>	<b>160,952</b>	



## Revised Budget for 2009 and Onwards

As of 3rd Dec 2008

4th RSTP/PSC 2008.11.04

				FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010				
Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Yr 2007	Total Expenditure	Yr2009	Yr2010	
6.Cross Component	6A	Travel	1501	Project Staff Travel	417,093	479,765	-4,163	-106,226	-60,482	-95,763	-110,291	77,840	25,000	
			1601	Annual Tri Part Review (IVB)	16,000	16,000	0	0	0	0	0	16,000	0	
			1602	Interviews/Travel (CTA Prospects) (IVB)	10,879	10,879	-10,879	0	0	0	0	0	0	
	6B	Meeting	3301	Project Steering Committee meetings	117,107	116,800	0	-35,162	-26,366	-18,704	-18,568	18,000	0	
			3302	RSTP meetings	164,114	148,228	-9,767	-41,544	-20,925	-17,491	-33,500	25,000	0	
			3303	Regional scientific conferences	185,782	155,721	0	0	0	-65,721	0	90,000	0	
	6C	Premises	4208	Sea-going equipment	360,000	382,870	0	-231,940	-8,029	-130,930	0	11,971	0	
			4210	Equipment unspecified	60,549	61,503	0	-1,215	-6,212	0	-31,037	23,039	0	
	6D	Contingencies	1223	Other consultant contracts	59,682	29,682	0	-2,072	0	-7,610	0	20,000	0	
			2135	Other institutional contracts	301,882	104,500	0	0	-1,500	0	-54,000	49,000	0	
			2166	2 Regional cruise reports	0	15,000	0	0	0	0	0	15,000	0	
			3102	Short term fellowship for training	20,000	20,000	0	0	0	0	0	20,000	0	
			3217	Additional training activities	167,520	27,521	0	-1,438	0	-6,082	0	20,000	0	
			3335	Additional meetings required	87,525	107,419	0	-5,224	0	-11,644	-15,550	30,000	45,000	
			New	Cruise Summary W/S	0	20,000	0	0	0	0	0	20,000	0	
			New	Cross Component Demo	0	70,000	0	0	0	0	-17,000	53,000	0	
			New	Phase 2 preparation - consultant	0	88,219	0	0	0	0	0	25,000	63,219	
			New	Bridging phase	0	80,000	0	0	0	0	0	0	80,000	
			3349	2 WGs for Phase 2	0	20,872	0	0	0	0	-20,872	0	0	
			5219	Printing cost for the additional reports	36,816	36,816	0	-604	0	-213	0	36,000	0	
			5401	Exigency costs	419,042	155,481	0	-301	-3,039	-3,129	-2,396	116,617	30,000	
			5501	Evaluation (consultants fees/travel/DSA)	96,000	96,978	0	0	0	-48,978	0	48,000	0	
	New	Staff Charges	0	1,320,677	-12,448	-182,795	-198,513	-240,954	-231,998	296,881	157,089			
	5606	UNOPS Project Supporting Cost(6%)	151,199	213,896	-2,235	-36,511	-19,504	-38,833	-32,113	60,681	24,018			
	<b>Sub Total</b>					<b>2,671,190</b>	<b>3,778,827</b>	<b>-39,493</b>	<b>-645,033</b>	<b>-344,570</b>	<b>-686,051</b>	<b>-567,325</b>	<b>1,072,029</b>	<b>424,326</b>
	<b>6.Cross Component Total</b>					<b>2,671,190</b>	<b>3,778,827</b>	<b>-39,493</b>	<b>-645,033</b>	<b>-344,570</b>	<b>-686,051</b>	<b>-567,325</b>	<b>1,072,029</b>	<b>424,326</b>

## Revised Budget for 2009 and Onwards

As of 3rd Dec 2008

4th RSTP/PSC 2008.11.04

						FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010		
Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Yr 2007	Total Expenditure	Yr2009	Yr2010	
1.Fisheries	1A	Stock assessment	1201	Development of Joint Stock Assessment Guidelines-Consultant	13,980	13,980	0	0	-4,200	-9,780	0	0	0	
			2101	Institution Contracts for Data & Information collection	89,242	89,242	0	-58,000	-31,242	0	0	0	0	0
			5201	Stock assessment report	4,000	3,852	0	0	0	-3,852	0	0	0	0
			2150	Regional Stock Assessment ( 4cruises +3 expert consultations)	480,000	489,233	0	0	0	0	-369,233	120,000	0	0
			1226	Young Scientist exchange	7,000	5,306	0	0	0	0	-5,306	0	0	0
			2147	Demo - Effectiveness of closed season / area	30,000	29,930	0	0	0	0	-9,000	20,930	0	0
			2149	Demo – Improvement in fisheries management system	30,000	35,325	0	0	0	0	-20,000	15,325	0	0
			2148	Demo - Effectiveness of stock enhancement	100,000	50,000	0	0	0	0	-15,000	35,000	0	0
	New	Other Contracts	0	20,000	0	0	0	0	0	0	20,000	0	0	
	1B	Carrying capacity	1202	Developing Guidelines for Carrying Capacity Analysis-Consultant	10,500	9,477	0	0	-9,477	0	0	0	0	0
			5202	Carrying capacity report	3,000	3,774	0	0	0	-3,774	0	0	0	0
			2146	Carrying capacity technical guide line (mariculture)	10,500	10,500	0	0	0	-10,500	0	0	0	0
			3338	Regional training for carrying capacity (mariculture)	13,539	15,936	0	0	0	-10,249	-5,687	0	0	0

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							Yr 2004	Yr 2005	Yr 2006	Yr 2007	Total Expenditure	Yr2009	Yr2010
1.Fisheries	1C	Mariculture Production	1203	Development of Sustainable Mariculture-Consultant	10,500	10,500	0	0	-4,200	-6,300	0	0	0
			1701	Mariculture Advisor	25,000	25,000	0	0	-25,000	0	0	0	0
			3344	Regional Mariculture Conference	49,000	53,542	0	0	0	0	-23,235	30,307	0
			3345	World Aquaculture Society meeting	15,000	10,458	0	0	0	0	-10,458	0	0
			2105	Institution Contracts to Implement mariculture techniques (Demonstration Projects).	295,000	292,020	0	0	0	0	-160,000	132,020	0
			3202	Reg. training on mariculture techniques	17,741	17,741	0	0	0	-17,741	0	0	0
			3203	Reg training on disease diagnosis, prevention and control	18,900	18,900	0	0	0	-18,900	0	0	0
	1D	Fisheries Management - Regional Agreements, National Laws & Management Plan for Fisheries	1204	Feasibility study on the regional agreement,i.e. FAO code of conduct	6,018	5,600	0	0	-5,600	0	0	0	0
			1205	Prepare regional Agreement on Legislation-Consultant	7,000	0	0	0	0	0	0	0	0
			5203	Publication of regional fisheries agreement	4,000	7,000	0	0	0	0	0	7,000	0
	1E	Meetings	3304	RWG-F Meeting 1	4,164	4,164	0	-4,164	0	0	0	0	0
			3305	RWG-F Meeting 2	10,975	10,975	0	-10,975	0	0	0	0	0
			3306	RWG-F Meeting 3	9,343	9,343	0	0	-9,343	0	0	0	0
			3307	RWG-F Meeting 4	11,200	11,217	0	0	0	-11,217	0	0	0
			3308	RWG-F Meeting 5	20,000	13,605	0	0	0	0	-13,605	0	0
			3309	RWG-F Meeting 6	20,000	0	0	0	0	0	0	0	0
			<b>Sub Total</b>				<b>1,315,602</b>	<b>1,266,621</b>	<b>0</b>	<b>-73,139</b>	<b>-89,062</b>	<b>-92,313</b>	<b>-631,525</b>

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						FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	
Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Yr 2007	Total Expenditure	Yr2009	Yr2010
1.Fisheries	1A	Stock assessment	2107	Ship rental	693,628	747,905	0	-45,000	0	0	-702,905	0	0
			4207	Equipment for regional survey (f)	0	0	0	0	0	0	0	0	0
			3336	2nd & 3rd Technical Meeting for the Cooperative Cruise	10,524	10,524	0	0	-10,524	0	0	0	0
	1F	Project Supporting Cost	5304	Operation cost	1,042	2,481	0	0	-772	-1,710	0	0	0
			New	Staff Charges	0	596,909	-12,170	-98,531	-70,201	-110,936	-106,102	129,892	69,076
			5601	UNOPS Project Supporting Cost(6%)	121,247	157,466	-730	-13,000	-10,234	-12,298	-86,432	30,628	4,145
	<b>Sub Total</b>					<b>826,440</b>	<b>1,515,285</b>	<b>-12,901</b>	<b>-156,531</b>	<b>-91,730</b>	<b>-124,943</b>	<b>-895,439</b>	<b>160,520</b>
<b>1.Fisheries Total</b>					<b>2,142,042</b>	<b>2,781,906</b>	<b>-12,901</b>	<b>-229,670</b>	<b>-180,792</b>	<b>-217,256</b>	<b>-1,526,964</b>	<b>541,102</b>	<b>73,220</b>

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							Yr 2004	Yr 2005	Yr 2006	Yr 2007	Total Expenditure	Yr2009	Yr2010	
2.Biodiversity	2A	Habitat Conservation (Activity 1 to 3) & Vulnerable Species (Activity 2 to 5)	1208	Review of National Practice of Coastal Habitats and Vulnerable Species-Consultant	9,300	9,300	0	0	-2,500	-6,800	0	0	0	
			2108	Institution Contracts to review existing national practices of coastal habitat use, conservation & restoration	59,741	59,741	0	-20,918	-12,000	-26,823	0	0	0	0
			2109	Institution Contracts to Implement Regional Strategy for Conservation Areas	339,584	199,985	0	0	0	0	-199,985	0	0	0
			New	Management improvement in demo site	0	100,000	0	0	0	0	0	100,000	0	0
			New	Public awareness in demo site	0	30,000	0	0	0	0	0	30,000	0	0
			New	Other Contracts	0	20,000	0	0	0	0	0	20,000	0	0
			2151	Management effectiveness of reserves (two country reports)	30,000	25,422	0	0	0	0	-25,422	0	0	0
			2152	Regionsal training for Reserve managers ( 2 meetings in local language)	45,000	45,000	0	0	0	0	0	45,000	0	0
			5204	review national practices of coastal habitat use, conservation, and restoration-Printing costs	0	4,292	0	0	0	0	-4,292	0	0	0
5205	Review of status of vulnerable species and vulnerable trophic linkages-Printing costs	3,000	3,535	0	0	0	0	-3,535	0	0	0			

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						FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	
Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Yr 2007	Total Expenditure	Yr2009	Yr2010
2.Biodiversity	2B	Genetic Diversity	1702	Biodiversity Advisor	10,000	0	0	0	0	0	0	0	0
			New	Printing cost for habitat status and Genetic review	0	10,000	0	0	0	0	0	10,000	0
			2153	Review of Genetic diversity in fleshy shrimp	20,000	20,000	0	0	0	-20,000	0	0	0
			2144	Genetic diversity	16,059	16,059	0	0	-11,559	-4,500	0	0	
	2C	Meetings	3310	RWG-B Meeting 1	3,436	3,436	0	-3,436	0	0	0	0	0
			3311	RWG-B Meeting 2	13,055	13,055	0	-13,055	0	0	0	0	0
			3312	RWG-B Meeting 3	8,485	8,485	0	0	-8,485	0	0	0	0
			3313	RWG-B Meeting 4	10,607	11,380	0	0	0	-11,380	0	0	0
			3314	RWG-B Meeting 5	17,500	11,438	0	0	0	0	-11,438	0	0
			3315	RWG-B Meeting 6	17,500	0	0	0	0	0	0	0	0
			<b>Sub Total</b>				<b>603,265</b>	<b>591,126</b>	<b>0</b>	<b>-37,408</b>	<b>-22,985</b>	<b>-64,389</b>	<b>-261,345</b>
	2C	Meetings	3337	Cross Component Conference (RSTP3)	0	0	0	0	0	0	0	0	0
	2D	Project Supporting Cost	5305	Operation cost	234	1,217	0	0	-234	-983	0	0	0
			New	Staff Charges	0	185,679	-3,786	-30,650	-21,837	-34,509	-33,005	40,405	21,487
			5602	UNOPS Project Supporting Cost(6%)	36,210	46,681	-227	-4,083	-2,703	-5,993	-17,661	14,724	1,289
<b>Sub Total</b>				<b>36,444</b>	<b>233,578</b>	<b>-4,013</b>	<b>-34,733</b>	<b>-24,775</b>	<b>-41,485</b>	<b>-50,666</b>	<b>55,129</b>	<b>22,776</b>	
<b>2.Biodiversity Total</b>				<b>639,709</b>	<b>824,704</b>	<b>-4,013</b>	<b>-72,141</b>	<b>-47,759</b>	<b>-105,873</b>	<b>-312,011</b>	<b>260,129</b>	<b>22,776</b>	

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							Yr 2004	Yr 2005	Yr 2006	Yr 2007	Total Expenditure	Yr2009	Yr2010
3.Ecosystem	3A	Status of Ecosystem	1216	Regional data synthesis - Institution Contracts	13,072	13,072	0	0	-4,200	-8,872	0	0	0
			1703	Ecosystem Advisor	1,500	1,486	0	0	0	0	-1,486	0	0
			2118	Institution Contracts - Nat'l data & Info collection	89,268	89,268	0	-58,000	-15,331	-15,937	0	0	0
			2119	Institution Contracts for Demonstration of new and innovative technologies for monitoring (FRRF)	34,640	41,031	0	0	0	-11,465	-21,116	8,450	0
			3208	Reg training (estimation) on carrying capacity of ecosystem (CPR)	8,240	8,240	0	0	0	-8,240	0	0	0
			2121	Institution Contracts for cooperative study cruise - ecosystem	300,000	306,433	0	0	0	0	-187,744	118,689	0
			3334	Regional workshop on remote sensing for monitoring ecosystem	20,000	20,000	0	0	0	-20,000	0	0	0
			2136	Spring cruise benthos and sediment core	9,366	9,366	0	0	0	0	-9,366	0	0
			2137	Intercalibration	40,000	40,000	0	0	0	0	-31,806	8,194	0
		3B	Carrying Capacity of Ecosystem	1217	Prepare guidelines for ecosystem carrying capacity-Consultant	3,000	0	0	0	0	0	0	0
			5211	Publish report on carrying capacity-Printing costs	3,000	3,774	0	0	0	-3,774	0	0	0

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						FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	
Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Yr 2007	Total Expenditure	Yr2009	Yr2010
3.Ecosystem	3C	Stressors to Ecosystem	1218	ID and rank stresses to ecosystem-Consultant ( regional monitoring)	10,500	10,000	0	0	0	0	-10,000	0	0
			2155	Demo - Institution contract for jellyfish monitoring	150,000	150,000	0	0	0	0	-90,000	60,000	0
			2154	Demo - Institution contract for effects of climate change	150,000	97,674	0	0	0	0	-24,400	73,274	0
			2167	demo-NPSi ratio	0	78,935	0	0	0	0	-19,700	59,235	0
			New	Macroalgae bloom	0	15,000	0	0	0	0	0	15,000	0
			New	Other Contracts	0	20,000	0	0	0	0	0	20,000	0
			5212	Publish reports-Stresses to ecosystem-Printing costs	3,000	7,536	0	0	0	-3,536	0	4,000	0
	3D	Meetings	3322	RWG-E Meeting 1	10,902	10,902	0	-10,902	0	0	0	0	0
			3323	RWG-E Meeting 2	12,948	12,948	0	-12,948	0	0	0	0	0
			3324	RWG-E Meeting 3	14,134	14,134	0	0	-14,134	0	0	0	0
			3325	RWG-E Meeting 4	9,249	9,249	0	0	0	-9,249	0	0	0
			3326	RWG-E Meeting 5	15,000	9,391	0	0	0	0	-9,391	0	0
			3327	RWG-E Meeting 6	17,500	0	0	0	0	0	0	0	0
	<b>Sub Total</b>				<b>915,319</b>	<b>968,439</b>	<b>0</b>	<b>-81,850</b>	<b>-33,665</b>	<b>-81,074</b>	<b>-405,009</b>	<b>366,842</b>	<b>0</b>
	3E	Project Supporting Cost	5306	Operation cost	436	1,689	0	0	-436	-1,254	0	0	0
			New	Staff Charges	0	344,688	-5,894	-54,091	-57,025	-59,729	-57,444	72,182	38,323
			5603	UNOPS Project Supporting Cost(6%)	54,945	78,889	-354	-8,156	-5,468	-8,523	-27,747	26,341	2,299
	<b>Sub Total</b>				<b>55,381</b>	<b>425,266</b>	<b>-6,247</b>	<b>-62,248</b>	<b>-62,928</b>	<b>-69,506</b>	<b>-85,191</b>	<b>98,524</b>	<b>40,622</b>
	<b>3.Ecosystem Total</b>				<b>970,700</b>	<b>1,393,705</b>	<b>-6,247</b>	<b>-144,097</b>	<b>-96,593</b>	<b>-150,580</b>	<b>-490,200</b>	<b>465,366</b>	<b>40,622</b>



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							Yr 2004	Yr 2005	Yr 2006	Yr 2007	Total Expenditure	Yr2009	Yr2010
4.Pollution	4A	Contaminant Inputs (Critical Spots)	1211	Regional data synthesis - consultant	10,500	10,500	0	0	-1,050	-9,450	0	0	0
			2111	Institution Contracts - nat'l data & info collection	105,957	105,957	0	-40,000	-15,982	-26,993	0	22,982	0
			5206	Publish report-reg'l data synthesis-Printing costs	3,000	9,128	0	0	0	-9,128	0	0	0
			1224	Visiting Scientist Programme	6,289	6,289	0	0	-1,289	0	-5,000	0	0
	4B	Contaminant Levels	1212	Reg'l monitoring guidelines; indicators to assess convention implementation-consultant (IAEA)	15,800	15,800	0	-1,000	-4,300	-10,500	0	0	0
			2112	Institution Contracts for cooperative study cruise	224,018	249,068	0	0	-20,000	0	-175,101	53,967	0
			2113	Institution Contracts for Intercalibration exercise (QHSS+IAEA)	22,000	24,312	0	0	-6,532	-17,780	0	0	0
			3206	Training on contaminant monitoring (phytotoxin)	20,000	20,000	0	0	0	0	-20,000	0	0
			3218	Training Course assessing marine environment quality	15,000	19,731	0	0	0	0	-16,069	3,662	0
			3219	Level 2 Training Courses (Joint with AMETEC)	17,906	21,121	0	0	0	0	-21,121	0	0
			3339	Intercalibration Summary Workshop	17,500	17,592	0	0	0	-17,592	0	0	0
			2157	Institution contract for IC nutrients Rd 3	6,711	0	0	0	0	0	0	0	0
			2156	Institution contract for IC metals org Rd2	25,000	23,900	0	0	0	0	0	23,900	0



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						FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	
Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Yr 2007	Total Expenditure	Yr2009	Yr2010
4.Pollution	4D	Regional Strategy Pollution Control	2161	Demo - Institution contract for recreational waters management	50,000	50,043	0	0	0	0	-12,500	37,543	0
			New	Other Contracts	0	20,000	0	0	0	0	0	20,000	0
			5207	Publish regional invest. strategy-Printing costs	3,000	10,765	0	0	0	-7,765	0	3,000	0
			5209	Publish reg'l strategy activity results-Printing costs	3,000	3,000	0	0	0	0	0	3,000	0
	4E	Meetings	3316	RWG-P Meeting 1	8,017	8,017	0	-8,017	0	0	0	0	0
			3317	RWG-P Meeting 2	9,475	9,475	0	-9,475	0	0	0	0	0
			3318	RWG-P Meeting 3	9,316	9,316	0	0	-9,316	0	0	0	0
			3319	RWG-P Meeting 4	9,694	9,741	0	0	0	-9,741	0	0	0
			3320	RWG-P Meeting 5	17,500	13,599	0	0	0	0	-13,599	0	0
			3321	RWG-P Meeting 6	15,000	0	0	0	0	0	0	0	0
	<b>Sub Total</b>				<b>1,084,245</b>	<b>975,756</b>	<b>0</b>	<b>-58,492</b>	<b>-71,243</b>	<b>-120,426</b>	<b>-342,190</b>	<b>383,406</b>	<b>0</b>
	4F	Project Supporting Cost	5307	Operation cost	782	1,026	0	0	-782	-244	0	0	0
			New	Staff Charges	0	349,766	-5,981	-54,888	-57,865	-60,609	-58,290	73,246	38,887
			5604	UNOPS Project Supporting Cost(6%)	65,102	79,593	-359	-6,803	-7,793	-10,877	-24,029	27,399	2,333
	<b>Sub Total</b>				<b>65,884</b>	<b>430,385</b>	<b>-6,339</b>	<b>-61,691</b>	<b>-66,441</b>	<b>-71,730</b>	<b>-82,319</b>	<b>100,645</b>	<b>41,220</b>
<b>4.Pollution Total</b>				<b>1,150,129</b>	<b>1,406,142</b>	<b>-6,339</b>	<b>-120,183</b>	<b>-137,683</b>	<b>-192,157</b>	<b>-424,508</b>	<b>484,051</b>	<b>41,220</b>	

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							Yr 2004	Yr 2005	Yr 2006	Yr 2007	Total Expenditure	Yr2009	Yr2010	
5.Investment	5A	Stakeholders & Public Awareness	1227	Public awareness assistant	42,124	15,000	0	0	0	0	-15,000	0	0	
			2123	Institution Contracts for Governance analysis	14,520	42,124	0	0	-42,124	0	0	0	0	0
			2124	Institution Contracts for The Yellow Sea and Youth	32,374	43,816	0	0	-8,110	-8,090	-19,616	8,000	0	0
			2125	Institution Contracts to Organize regular stakeholders conference (1/yr)	8,000	7,914	0	0	0	0	-3,914	4,000	0	0
			2130	Institution Contracts to Organize public awareness conferences	7,000	7,000	0	0	0	0	-3,500	3,500	0	0
			2131	Institution Contracts to Prepare public awareness materials	10,000	10,000	0	0	0	-1,160	-8,840	0	0	0
			2132	Institution Contracts to Produce multi-media, e.g., project pins, mouse pads, posters, etc.	15,000	8,942	0	0	-8,942	0	0	0	0	0
			2138	Partnership Workshop	8,942	1,166	0	0	-166	0	0	1,000	0	0
			2139	EAS Congress Workshop and Joint Session	89,267	20,224	0	0	-6,593	-3,631	0	10,000	0	0
			2140	Parliamentary Workshop	19,988	29,391	0	0	-29,391	0	0	0	0	0
			2145	Regional governance analysis	0	23,139	0	0	0	-8,700	-14,439	0	0	0
			3101	Associate expert	14,173	60,248	0	0	-14,267	-5,371	-15,310	25,300	0	0
			3210	Training for decision makers	21,863	19,988	0	0	-19,988	0	0	0	0	0
			3211	Training for community trainers	6,113	0	0	0	0	0	0	0	0	0
			3212	Training for local governmental officers	4,908	14,173	0	0	-14,173	0	0	0	0	0
			3216	Public awareness training	166	6,113	0	0	-6,113	0	0	0	0	0
			3340	2nd Training for local governmental officers	0	21,931	0	0	0	-21,931	0	0	0	0
3341	2nd Partnership Workshop	16,654	0	0	0	0	0	0	0	0	0			
3342	2nd Parliamentary Workshop	29,391	19,908	0	0	0	-19,908	0	0	0	0			
5214	Print newsletters	19,793	6,849	0	0	-951	-1,962	-1,936	2,000	0	0			

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							Yr 2004	Yr 2005	Yr 2006	Yr 2007	Total Expenditure	Yr2009	Yr2010		
5.Investment	5B	TDA & SAP (Regional Coordination)	1219	Prepare TDA-Consultant	41,028	41,028	0	0	-40,003	-1,025	0	0	0		
			1220	Prepare regional SAP-Consultant	25,000	25,000	0	0	0	-10,000	-15,000	0	0	0	
			1706	TDA NPPP	0	0	0	0	0	0	0	0	0	0	
			3343	SAP consultation	71,929	69,414	0	0	0	-52,083	-17,330	0	0	0	
			2126	Institution Contracts to Prepare NYSAP	84,000	99,000	0	0	0	0	-77,000	22,000	0	0	
			3347	SAP drafting group	45,000	10,491	0	0	0	0	-10,491	0	0	0	
			3348	Special PSC for SAP	20,000	11,473	0	0	0	0	-11,473	0	0	0	
			2165	Political social acceptance analysis	42,000	42,000	0	0	0	0	-42,000	0	0	0	
			2164	CBA of demonstration	135,000	130,000	0	0	0	0	-12,400	117,600	0	0	
			5215	Print the final TDA	4,875	9,805	0	0	0	0	-4,875	-4,931	0	0	
			5216	Print NYSAP	6,000	6,000	0	0	0	0	0	0	6,000	0	
			5217	Print regional SAP	5,000	5,000	0	0	0	0	0	0	5,000	0	
			New	Print the CBA of demonstration	0	2,000	0	0	0	0	0	0	0	2,000	0
			New	Preparation of commision document	0	5,000	0	0	0	0	0	0	0	5,000	0
			New	Other Contracts	0	20,000	0	0	0	0	0	0	0	20,000	0
			2141	Regional valuation guideline	27,110	25,309	0	0	0	0	-12,000	0	-13,309	0	0
	2163	Case study	18,000	0	0	0	0	0	0	0	0	0	0		
	1704	NCU Coordinator (K)	285,000	284,999	0	0	0	0	-99,396	-61,868	-63,736	60,000	0		
	1705	NCU Coordinator (C)	165,500	175,500	0	0	0	0	-26,100	-34,800	-44,800	-34,800	35,000	0	
	2127	Institution Contracts to analyse institutional arrangements	0	0	0	0	0	0	0	0	0	0	0		
	2133	National co-ordinating mechanism (C)	168,720	158,720	0	0	0	0	-26,400	-5,200	-35,580	-40,000	51,540	0	
	2134	National co-ordinating mechanism (K)	59,497	59,497	0	0	0	0	0	-38,649	-10,428	10,420	0		
	3213	Training on Project document preparation	21,500	20,278	0	0	0	0	0	-20,278	0	0	0		
3214	Training on Fund raising	20,000	20,000	0	0	0	0	0	0	0	20,000	0			

# Revised Budget for 2009 and Onwards

As of 3rd Dec 2008

4th RSTP/PSC 2008.11.04

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	
							Yr 2004	Yr 2005	Yr 2006	Yr 2007	Total Expenditure	Yr2009	Yr2010	
5.Investment	5D	Data and Information Management	1222	Develop regional data & info systems-Consultant	7,000	0	0	0	0	0	0	0	0	
			1707	DIM Consultants	70,000	0	0	0	0	0	0	0	0	0
			3215	Training on DIM	20,000	14,966	0	0	0	0	-14,966	0	0	0
			4103	GIS Software	8,451	8,451	0	0	-8,451	0	0	0	0	0
			4202	GIS workstation	3,802	0	0	0	0	0	0	0	0	0
			4209	Equipment for DIM	43,418	20,320	0	0	-20,320	0	0	0	0	0
			2143	Maintenance of Meta and GIS Databases	40,000	54,560	0	0	0	-15,000	-22,060	17,500	0	0
	5E	Meetings	3328	RWG-I Meeting 1	5,634	5,634	0	-5,634	0	0	0	0	0	
			3329	RWG-I Meeting 2	11,834	11,834	0	-11,834	0	0	0	0	0	
			3330	RWG-I Meeting 3	16,933	16,933	0	0	-16,933	0	0	0	0	
			3331	RWG-I Meeting 4	19,216	19,292	0	0	0	-19,292	0	0	0	
			3332	RWG-I Meeting 5	17,500	11,256	0	0	0	0	-11,256	0	0	
			3333	RWG-I Meeting 6	17,500	0	0	0	0	0	0	0	0	
	<b>Sub Total</b>					<b>1,886,724</b>	<b>1,741,687</b>	<b>0</b>	<b>-69,969</b>	<b>-387,921</b>	<b>-374,203</b>	<b>-483,734</b>	<b>425,860</b>	<b>0</b>
	5F	Financial Sustainability	2129	Demonstration projects on sustainable investment	0	0	0	0	0	0	0	0	0	0
			2142	Small Grants Projects	167,200	157,512	0	0	-26,600	-40,888	-63,698	26,326	0	
	5G	Project Supporting Cost	5308	Operation cost	4,528	5,766	0	0	-4,528	-1,238	0	0	0	
			New	Staff Charges	0	600,296	-11,361	-60,180	-106,323	-110,198	-105,008	136,378	70,847	
			5605	UNOPS Project Supporting Cost(6%)	123,507	150,316	-682	-7,809	-31,522	-31,592	-39,146	35,314	4,251	
	<b>Sub Total</b>					<b>295,235</b>	<b>913,889</b>	<b>-12,043</b>	<b>-67,988</b>	<b>-168,974</b>	<b>-183,916</b>	<b>-207,852</b>	<b>198,018</b>	<b>75,098</b>
<b>5.Investment Total</b>					<b>2,181,959</b>	<b>2,655,576</b>	<b>-12,043</b>	<b>-137,957</b>	<b>-556,895</b>	<b>-558,119</b>	<b>-691,585</b>	<b>623,878</b>	<b>75,098</b>	
<b>Grand Total</b>					<b>14,394,091</b>	<b>14,394,089</b>	<b>-172,373</b>	<b>-1,582,213</b>	<b>-1,623,350</b>	<b>-2,172,962</b>	<b>-4,243,690</b>	<b>3,761,286</b>	<b>838,216</b>	

## **Annex VI**

### **Approved Workplan for 2009**

## Fisheries Component Workplan for 2009 (Condensed)

<b>Activity</b>	<b><u>Action</u></b>	<b><u>Timeline / Deadline</u></b>
<b><u>Joint Regional Stock Assessment</u></b>		
	Mid term report	√ 12 Sept 2008
	Final report	8 May 2009
<b><u>Boat buy-back</u></b>		
	Mid term report	√ 12 Sept 2008
	final report	14 August 2009
<b><u>Effectiveness of Stock Enhancement</u></b>		
	Progress Report	30-1-09
	Final Report	30 September 2009
<b><u>Effectiveness of Closed Seasons/Areas</u></b>		
	Progress Report	30-1-09
	Final Report	30 September 2009
<b><u>Heterotrophic Shrimp Culture</u></b>		
	Progress Report	1 October 2008
	Final Report	30 September 2009
<b><u>IMTA demo</u></b>		
	Progress Report	1 October 2008
	Final Report	30 September 2009
<b><u>Mariculture Conference</u></b>		
	Held	June 2009
<b><u>NYSAP</u></b>		
drafting NYSAP	NPC and national members	2008
govt approval of NYSAP	govt	
<b><u>Project Phase 2 preparations</u></b>		
Working Session #2		Oct. 2008
Supporting services inputs to PIF <i>others actions to be added</i>		Oct/Nov. 22008
<b><u>6th RWG-F Meeting/2nd RSC</u></b>		
	PMO will arrange	autumn 2009



ID	Task Name	Start	Finish	1st Half		2nd Half		1st Half		2nd Half		1st Half		2nd Half		1st Half		2nd Half					
				Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
1	<b>OBJECTIVE I: FISHERIES COMPONENT</b>	<b>Mon 05-04-11</b>	<b>Fri 09-10-30</b>																				
2	<b>IA: STOCK ASSESSMENT</b>	<b>Mon 05-04-11</b>	<b>Wed 09-09-23</b>																				
3	<b>ACT 1: Review of existing data</b>	<b>Mon 05-04-11</b>	<b>Thu 06-11-09</b>																				
4	Regional Working Group (WG) Meeting 1	Mon 05-04-11	Thu 05-04-14																				
5	Contract to relevant national institutions (contract)	Tue 05-10-04	Mon 06-02-20																				
6	Revise national data and info (contract)-NFRDI-YSFRI	Tue 05-10-04	Thu 06-11-09																				
7	<b>ACT 2: Diagnosis of Stock Conditions</b>	<b>Fri 06-11-10</b>	<b>Tue 06-11-21</b>																				
8	Finalisation of data and info at WG Meeting 3	Fri 06-11-10	Wed 06-11-15																				
9	Inputs to final TDA	Thu 06-11-16	Tue 06-11-21																				
10	<b>ACT 3: Develop Common methodology of regional stock as</b>	<b>Tue 06-01-03</b>	<b>Thu 07-08-23</b>																				
11	Gathering existing methods, prepare suggested methods (c	Tue 06-01-03	Tue 06-08-01																				
12	Discuss the methods (WG Meeting 3)	Tue 06-08-01	Fri 06-08-04																				
13	Revise regional methods (consultant)	Mon 06-08-07	Fri 06-12-15																				
14	Discuss and modify the methods (WG Meeting 4)	Mon 07-08-20	Thu 07-08-23																				
15	Finalise the method (WG Meeting 4)	Mon 07-08-20	Thu 07-08-23																				
16	<b>ACT 4: Perform Demonstration of Joint-Regional Survey</b>	<b>Wed 05-10-19</b>	<b>Wed 07-12-12</b>																				
17	<b>Winter Survey</b>	<b>Wed 05-10-19</b>	<b>Wed 07-12-12</b>																				
18	Prepare guidelines for survey (consultant)	Thu 07-08-23	Wed 07-12-12																				
19	Accept guidelines (Technical Meeting 1 - Qingdao)	Wed 07-10-17	Thu 07-10-18																				
20	Obtain and Assemble Equipment	Wed 05-10-19	Fri 05-12-30																				
21	Ship Rental for first Joint Survey	Wed 06-01-04	Wed 06-01-25																				
22	Analyse survey result (participants of survey)	Fri 06-01-27	Sun 06-04-30																				
23	Publish survey result (printing)(PMO)	Mon 06-05-01	Fri 06-07-28																				
24	<b>Spring Survey</b>	<b>Thu 06-01-26</b>	<b>Fri 06-09-29</b>																				
25	Prepare guidelines for survey (consultant)	Thu 06-01-26	Thu 06-01-26																				
26	Accept guidelines (Technical Meeting 2 - ?)	Mon 06-03-27	Tue 06-03-28																				
27	Obtain and Assemble Equipment	Wed 06-03-29	Mon 06-05-01																				
28	Ship Rental for Second Joint Survey	Mon 06-05-01	Sat 06-06-10																				
29	Analyse survey result (participants)	Mon 06-06-12	Fri 06-09-29																				
30	Publish survey result (printing)	Mon 06-10-02	Tue 06-10-31																				
31	<b>ACT 5: Perform Initial Joint Regional Stock Assessment</b>	<b>Tue 06-10-10</b>	<b>Wed 09-09-23</b>																				
32	Prepare a plan for stock assessment (Consultant)	Tue 06-10-10	Thu 07-03-15																				
33	Technical discussion on the plan (WG Meeting 4)	Wed 07-08-01	Tue 07-10-23																				
34	Implement regional stock assessment	Tue 07-08-07	Mon 08-03-10																				
35	Discuss results of assessment (WG Meeting 5)	Fri 08-08-01	Wed 08-08-06																				
36	Additional assessment if necessary (contracts)	Thu 08-08-07	Thu 09-08-06																				
37	Accept the assessment result (WG Meeting 6)??	Fri 09-08-07	Wed 09-08-12																				
38	Publication of assessment results (printing)	Thu 09-08-13	Wed 09-09-23																				
39	<b>ACT 6: Create mechanism for regional multispecies stock a</b>	<b>Thu 05-11-17</b>	<b>Mon 07-08-06</b>																				
40	Identify major barriers in stock assessment (WG Meeting 2)	Thu 05-11-17	Mon 05-11-21																				
41	Identify the species to be assessed (WG Meeting 2)	Thu 05-11-17	Mon 05-11-21																				
42	Prepare draft mechanism for annual assessment (Consultan	Mon 06-01-02	Fri 06-06-30																				
43	Discuss the draft mechanism (WG Meeting 3)	Tue 06-08-01	Fri 06-10-27																				
44	Revise the draft mechanism (consultant)	Tue 06-08-08	Thu 07-03-15																				
45	Finalisation of the mechanism (WG Meeting 4)	Wed 07-08-01	Mon 07-08-06																				
46	<b>IB: CARRYING CAPACITY</b>	<b>Thu 05-09-01</b>	<b>Mon 08-10-27</b>																				
47	<b>ACT 1: Review of existing state of knowledge</b>	<b>Thu 05-09-01</b>	<b>Fri 06-08-04</b>																				
48	Contract to relevant national institutions for assessing infor	Mon 05-10-03	Fri 06-02-17																				
49	Present at WG Meeting 2	Thu 05-11-17	Mon 05-11-21																				
50	Revise national state of knowledge	Sat 05-11-19	Tue 06-08-01																				
51	Finalisation of report (WG Meeting 3)	Tue 06-08-01	Fri 06-08-04																				
52	Inputs to final TDA	Thu 05-09-01	Tue 05-10-11																				
53	<b>ACT 2: Fill in knowledge gaps for carrying capacity analysi</b>	<b>Mon 06-01-02</b>	<b>Fri 06-06-30</b>																				
54	Prepare guidelines for carrying capacity (consultant)	Mon 06-01-02	Fri 06-06-30																				
55	<b>ACT 3: Perform iterative series of analysis of carrying capac</b>	<b>Mon 06-08-07</b>	<b>Tue 07-09-04</b>																				
56	Prepare workplan for the analysis (consultant)	Mon 06-08-07	Fri 06-09-08																				
57	Discuss and agree on the workplan (WG Meeting 4)	Wed 07-08-01	Mon 07-08-06																				
58	Implement the workplan (contracts to national focal points)	Tue 07-08-07	Tue 07-09-04																				
59	<b>ACT 4: Annual carrying capacity determination</b>	<b>Wed 07-09-05</b>	<b>Mon 08-10-27</b>																				



## Biodiversity Component Workplan for 2009 (Condensed)

<b>Activity</b>	<b><u>Action</u></b>	<b><u>Timeline / Deadline</u></b>
<b><u>Implementation of Demonstration activities</u></b>		
	Contract or to start	early Dec. 2008
	Mid term report	
	Final report	Nov 2009
<b><u>Training of managers at Demonstration sites</u></b>		
	Activity	June 2009
	final report	August 2009
<b><u>Public Awareness at Demonstration sites</u></b>		
	Activities	2009
	Report	Nov 2009
<b><u>Ramsar COP 10 and the Conservation of Wetlands Meeting</u></b>		
	Meeting	Oct-Nov 2008
	Booth	Oct-Nov 2009
<b><u>NYSAP</u></b>		
drafting NYSAP	NPC and national members	2008
govt approval of NYSAP	govt	
<b><u>Project Phase 2 preparations</u></b>		
Working Session #2		Oct. 2008
Supporting services inputs to PIF		Oct/Nov. 22008
<i>others actions to be added</i>		
<b><u>6th RWG-E Meeting/2nd RSC</u></b>		
	PMO will arrange	autumn 2009

ID	Task Name	Start	Finish	2005				2006				2007				2008				2009			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1	<b>OBJECTIVE II: BIODIVERSITY PROTECTION COMPONENT</b>	Tue 05-04-19	Mon 09-12-14	[Gantt bar]																			
2	<b>IIA: HABITAT CONSERVATION AND VULNERABLE SP</b>	Tue 05-04-19	Wed 08-12-31	[Gantt bar]																			
3	<b>ACT 1: Review existing national practices of coastal habitat use, conservation, restoration, status of vulnerable species and trophic linkages (including keystone species), and analyse and</b>	Tue 05-04-19	Mon 07-10-01	[Gantt bar]																			
4	WG Meeting 1 (Qingdao)	Tue 05-04-19	Fri 05-04-22	[Task bar]																			
5	Contract to relevant national institution(s) (Contract	Tue 05-08-30	Fri 06-03-31	[Task bar]																			
6	WG Meeting 2	Wed 05-11-09	Sat 05-11-12	[Task bar]																			
7	Finalise national outputs and synthesis	Tue 05-08-30	Fri 06-03-31	[Task bar]																			
8	Consider cross- component meeting with other WGs to discuss trophic linkage outcomes relevant	Sun 06-10-15	Mon 06-10-16	[Task bar]																			
9	Prepare a regional synthesis (consultant C2)	Fri 06-02-10	Tue 07-07-31	[Task bar]																			
10	Present outcomes of national assessment in WG M	Fri 06-10-20	Mon 06-10-23	[Task bar]																			
11	Publish the outcomes (printing)	Wed 07-08-01	Mon 07-10-01	[Task bar]																			
12	Inputs to final TDA	Tue 06-10-24	Sun 06-12-31	[Task bar]																			
13	<b>ACT 2: Develop regionally coordinated strategies of conservation and restoration of habitats and for</b>	Fri 06-02-10	Wed 08-12-31	[Gantt bar]																			
14	Prepare draft regional strategy (Consultant C2)	Fri 06-02-10	Tue 07-07-31	[Task bar]																			
15	Discuss and modify the draft (WG Meeting 3)	Fri 06-10-20	Mon 06-10-23	[Task bar]																			
16	Revise the draft accordingly (C2)	Tue 06-10-24	Tue 07-07-31	[Task bar]																			
17	Finalise strategy (WG Meeting 4)	Mon 07-09-03	Thu 07-09-06	[Task bar]																			
18	Inputs to regional SAP	Fri 07-03-02	Wed 08-12-31	[Task bar]																			
19	<b>ACT 3: Implement regional strategy for conservation areas and the protection of</b>	Fri 06-02-10	Tue 07-07-31	[Gantt bar]																			
20	Prepare draft implementation plan (consultant C2)	Fri 06-02-10	Tue 07-07-31	[Task bar]																			
21	<b>ACT 4: Implement regional strategy for conservatic</b>	Fri 08-08-01	Wed 08-08-06	[Gantt bar]																			
22	Adopt implementation plan (WG Meeting 5)	Fri 08-08-01	Wed 08-08-06	[Task bar]																			
23	<b>ACT 5: Implementation of regionally coordinated strategies for protection of vulnerable species</b>	Wed 07-08-01	Fri 08-06-20	[Gantt bar]																			
24	Implement the strategy (contract to national focal p	Wed 07-08-01	Fri 08-06-20	[Task bar]																			
25	<b>IIB: GENETIC DIVERSITY - low priority activity, no bud</b>	Wed 05-11-09	Wed 09-07-15	[Gantt bar]																			
26	<b>ACT 1: Determine situations of genetic degradator</b>	Mon 06-05-08	Thu 07-09-06	[Gantt bar]																			
27	<a href="#">Meeting to discuss Genetic Diversity at end of RWI</a>	Tue 06-10-24	Tue 06-10-24	[Task bar]																			
28	<a href="#">Prepare draft of current status of genetic degradation of important bioresources, including a list of species and current activities which address 'genetic degradation' and identify and prioritise</a>	Mon 06-05-08	Fri 06-08-11	[Task bar]																			
29	<a href="#">Discuss and finalise current status (WG Meeting 4)</a>	Mon 07-09-03	Thu 07-09-06	[Task bar]																			
30	<a href="#">Inputs to TDA</a>	Tue 06-10-24	Sun 06-12-31	[Task bar]																			
31	<b>ACT 2: Develop regional concensus on the requirements for conservation of genetic diversity</b>	Wed 05-11-09	Wed 09-07-15	[Gantt bar]																			
32	<a href="#">Prepare draft list on conservation of genetic divers</a>	Mon 06-05-01	Wed 06-05-31	[Task bar]																			
33	<a href="#">Training course on genetic techniques [delete this]</a>	Mon 06-02-20	Thu 06-04-20	[Task bar]																			
34	<a href="#">Agree list on genes (WG Meeting 2 delete) (during addition working group meeting)</a>	Wed 05-11-09	Sat 05-11-12	[Task bar]																			
35	<a href="#">Prepare a plan for the conservation (consultant)</a>	Thu 09-01-01	Wed 09-07-15	[Task bar]																			
36	<a href="#">Finalise the plan (WG Meeting 3)</a>	Fri 06-10-20	Mon 06-10-23	[Task bar]																			
37	<a href="#">Input to SAP</a>	Thu 07-03-01	Tue 08-12-30	[Task bar]																			
38	<b>ACT 3: Prepare recommendations for conservation</b>	Mon 05-12-19	Fri 06-01-20	[Gantt bar]																			
39	<a href="#">The activities will be incorporated into activity 2</a>	Mon 05-12-19	Fri 06-01-20	[Task bar]																			
40	<b>IIC: EXOTIC (INTRODUCED) SPECIES</b>	Tue 05-04-19	Wed 09-06-17	[Gantt bar]																			
41	<b>ACT 1: Document introduced exotic species and their pathways, assess impacts and risks</b>	Tue 05-04-19	Wed 09-04-22	[Gantt bar]																			
42	WG Meeting 1	Tue 05-04-19	Fri 05-04-22	[Task bar]																			
43	Contract to relevant national institution(s) (Contract	Tue 05-08-30	Fri 06-03-31	[Task bar]																			
44	Discuss and modify the draft (WG Meeting 2)	Wed 05-11-09	Sat 05-11-12	[Task bar]																			
45	Revise the draft accordingly	Thu 09-01-01	Wed 09-04-22	[Task bar]																			
46	Finalise the strategy (WG Meeting 3)	Fri 06-10-20	Mon 06-10-23	[Task bar]																			
47	Inputs to TDA	Tue 06-10-24	Fri 06-12-29	[Task bar]																			



**Ecosystem Component  
Workplan for 2009 (Condensed)**

<b>Activity</b>	<b>Action</b>	<b>Timeline / Deadline</b>
<b><u>OC 2008</u></b>	Final meeting and results delivery	mid Jan. 2009
<b><u>Primary productivity estimation</u></b>	progress report	Sept. 2008
	final report	15 Feb. 2009
<b><u>Co-operative cruises</u></b>		
Component reports - summer	each team	end Jan. 2009
Regional report	Chief Scientists	end Apr. 2009
Winter cruise data available to the public through project DB	each team & CKJORC	before 2nd RSC, Nov. 2009
Summer cruise data available to the public through project DB	each team & CKJORC	before project ends
<b><u>SAP Demonstration Activities</u></b>		2008 - 2009 (results to be reported at 2nd RSC)
Jellyfish bloom	consultants	Dec. 2009
N:P:Si changes	consultants	Dec. 2009
climate change impacts	consultants	Dec. 2009
<b><u>NSAP</u></b>		
drafting NSAP	NPC and national members	before end 2008
govt approval of NSAP	govt	before end 2008
<b><u>Project Phase 2 preparations</u></b>		
Working Session #2		5-6 Oct. 2008
Supporting services inputs to PIF		completed at 5th RWG-E Meeting
<b><u>6th RWG-E Meeting/2nd RSC</u></b>	PMO will arrange	Nov. 2009, TBD

ID	Task Name	Start	Finish	2005				2006				2007				2008				2009			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1	<b>OBJECTIVE III: ECOSYSTEM</b>	Mon 05-01-03	Thu 09-12-31																				
2	<b>IIIA: STATUS OF ECOSYSTEM</b>	Mon 05-01-03	Mon 07-12-31																				
3	<b>ACT 1: Prepare state-of-ecosystem reviews and reports (incl. long-term and recent changes)</b>	Mon 05-10-03	Thu 06-09-21																				
4	Contract (1) to relevant national institution(s) - collect data & info	Mon 05-10-03	Fri 06-03-31																				
5	Processing existing raw data	Mon 06-01-02	Fri 06-03-31																				
6	Establish a regional editorial group /or use the WG	Tue 05-11-29	Fri 05-12-02																				
7	Prepare a draft report (consultant 1)	Mon 06-01-02	Mon 06-07-31																				
8	Discuss the draft (WG meeting 2)	Tue 05-11-29	Fri 05-12-02																				
9	Revise the draft report (consultant 1)	Mon 06-01-02	Mon 06-07-31																				
10	Finalise the draft report (WG meeting 3)	Mon 06-09-18	Thu 06-09-21																				
11	<b>ACT 2: Identify data and information gaps and develop strategies for monitoring changing status of ecosystem and its transboundary impacts</b>	Wed 06-02-01	Mon 07-06-04																				
12	Prepare synthesis of the national assessment, and identify the info gaps (consultant 1)	Wed 06-02-01	Thu 06-08-31																				
13	Prepare draft strategy, including: parameters, analysis, intercalibration, data exchange etc. (consultant 1)	Wed 06-02-01	Thu 06-08-31																				
14	Discuss the draft (WG meeting 3)	Mon 06-09-18	Thu 06-09-21																				
15	Revise the draft	Mon 06-10-02	Tue 06-10-31																				
16	Finalise the strategy (WG meeting 4)	Fri 07-06-01	Mon 07-06-04																				
17	<b>ACT 3: Demonstration of new and innovative technologies for monitoring</b>	Mon 05-01-03	Mon 07-12-31																				
18	Contract (2) to relevant national institution(s)	Wed 07-01-03	Mon 07-12-31																				
19	Application of remote sensing	Mon 07-01-01	Thu 07-12-27																				
20	Ship-of-opportunities monitoring.	Mon 07-01-01	Thu 07-12-27																				
21	Molecular probes - low priority	Mon 05-01-03	Mon 05-01-03																				
22	<b>IIIB: CARRYING CAPACITY OF ECOSYSTEM</b>	Mon 07-01-01	Sun 09-02-15																				
23	<b>ACT 1: Establish the logistical and data requirements of estimating carrying capacity</b>	Tue 07-09-04	Sun 09-02-15																				
24	Contract (1) to relevant national institution(s)	Sat 07-12-01	Sun 09-02-15																				
25	Discuss and coordinate with fisheries WG (joint workshop) - N/A	Tue 07-09-04	Thu 07-09-06																				
26	Decide on the assessment methods of carrying capacity	Sat 07-12-01	Sun 09-02-15																				
27	Training on carrying capacity (Estimation of carrying capacity)	Sat 07-12-01	Sun 09-02-15																				
28	<b>ACT 2: Conduct a basin-scale survey on lower-trophic level ecosystem</b>	Mon 07-01-15	Sun 07-08-19																				
29	Conduct a basin-scale survey on lower-trophic level ecosystem (contract 4)	Mon 07-01-15	Sun 07-08-19																				
30	<b>ACT 3: Assess the carrying capacities of the ecosystem under changing human-induced and natural variability</b>	Mon 07-01-01	Thu 07-12-27																				
31	Prepare a regional synthesis (consultant 2)	Mon 07-01-01	Thu 07-12-27																				
32	Finalisation national outputs and synthesis	Mon 07-01-01	Thu 07-12-27																				
33	<b>IIIC: STRESSORS TO THE ECOSYSTEM</b>	Mon 05-10-03	Thu 09-12-31																				
34	<b>ACT 1: Identify and rank stresses on the ecosystem; identify data and information gaps</b>	Mon 05-10-03	Mon 07-12-31																				
35	Contract (1) to relevant national institution(s)	Mon 05-10-03	Fri 06-03-31																				
36	Present outcomes of ranking, data and info in WG meeting 2	Tue 05-11-29	Fri 05-12-02																				
37	Prepare a regional synthesis (consultant 3)	Wed 06-02-01	Thu 06-08-31																				
38	Finalization of national outputs and synthesis (WG Meeting 3)	Mon 06-09-18	Thu 06-09-21																				
39	Publish the outcomes (printing)	Tue 07-10-02	Mon 07-12-31																				
40	Inputs to final TDA	Mon 06-07-31	Fri 06-12-29																				
41	<b>ACT 2: Identify corrective measures to minimize human-induced stress</b>	Wed 06-02-01	Fri 06-12-29																				
42	Identify major human induced stresses (contract)	Wed 06-02-01	Thu 06-08-31																				
43	Causal chain analysis (contract 1)	Mon 06-07-31	Fri 06-12-29																				
44	Identify measures to address the root causes (WG meeting 3)	Mon 06-09-18	Thu 06-09-21																				
45	Inputs to final TDA	Mon 06-07-31	Fri 06-12-29																				
46	<b>ACT 3: Develop strategy for intercalibration and data exchange</b>	Mon 07-01-01	Fri 07-08-31																				
47	Prepare draft strategy, including: parameters, analysis, intercalibration, data exchange etc.	Mon 07-01-01	Sat 07-06-30																				
48	Discussion the draft (WG meeting 4)	Fri 07-06-01	Mon 07-06-04																				
49	Revise the draft	Tue 07-07-03	Fri 07-08-31																				
50	Finalise the strategy (WG meeting4)	Fri 07-06-01	Mon 07-06-04																				
51	<b>ACT 4: Develop strategy to identify long-term sustainable investments to improve the YSLME</b>	Thu 07-02-01	Thu 09-12-31																				
52	Prepare a format for nat'l strategy-PMO	Thu 07-02-01	Sun 07-08-19																				
53	Prepare national strategy (contract 3)	Thu 07-02-01	Sun 07-08-19																				
54	Discussing national strategy (WG Meeting 5)	Thu 07-02-01	Sun 07-08-19																				
55	Revise national strategy (contract 3)	Thu 07-02-01	Sun 07-08-19																				
56	Prepare regional draft strategy (consultant 3)	Thu 07-02-01	Sun 07-08-19																				
57	Finalise nat'l strategy (WG mtg 5)	Thu 07-02-01	Thu 07-10-04																				
58	Discuss reg. strategy (WG mtg 5)	Fri 07-02-02	Fri 07-10-05																				
59	Finalise reg strategy (WG meeting 6)	Thu 07-02-01	Thu 07-10-04																				
60	Inputs to nat'l & reg SAP	Thu 07-02-01	Mon 08-12-29																				
61	<b>Implement SAP (PILOT PROJECTS)</b>	Fri 08-08-01	Thu 09-12-31																				
62																							
63	<b>Ongoing Activities</b>	Thu 08-01-03	#####																				
64	<u>YOC 2008</u>	Tue 08-04-01	Wed 08-12-31																				
65	<u>Primary productivity estimation - extension</u>	Sat 07-12-01	Fri 09-02-13																				
66	<u>SAP demo - jellyfish monitoring</u>	Fri 08-08-01	Thu 09-12-31																				
67	<u>SAP demo - N:P:Si changes</u>	Fri 08-08-01	Thu 09-12-31																				
68	<u>SAP demo - climate change impacts</u>	Fri 08-08-01	Thu 09-12-31																				

**Pollution Component  
Workplan for 2009 (Condensed)**

<b>Activity</b>	<b>Action</b>	<b>Timeline / Deadline</b>
<b><u>Inter-calibration exercises</u></b>		
Nutrients Round 3	on-going	before end 2009
Metals & Organics Round 2	on-going	before end 2009
IC Summary Workshop #2 (2days)	PMO and labs	mid-Feb 2009 before or after cruise summary wkshp
<b><u>Co-operative cruises</u></b>		
Cruise summary workshop (2days)	PMO and cruise scientists	mid-Feb 2009
Regional report	Chief Scientists	
Winter cruise data submitted to project database	cruise scientists	before 2RSC in late 2009
Summer cruise data submitted to project	cruise scientists	before project ends
<b><u>SAP Demonstration Activities</u></b>		
		2008 - 2009
nutrient loading in hot spots	consultant	Dec. 09
atmospheric deposition	consultant	Nov. 09
sea-based sources	consultant	Nov. 09
recreational waters management	consultant	Dec. 09
cross-component poll-bio	consultant	Dec. 09
<b><u>NSAP</u></b>		
drafting NSAP	NPC and national members	2008
govt approval of NSAP	govts	end 2008/early 2009
<b><u>Project Phase 2 preparations</u></b>		
Working Session #2		Oct. 2008
Regulating and cultural services inputs to PIF		Oct/Nov. 2008
<b><u>6th RWG-P Meeting/2nd RSC</u></b>	PMO will arrange	mid Oct 2009



ID	Task Name	Start	Finish	2005				2006				2007				2008				2009			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1	<b>OBJECTIVE IV: POLLUTION</b>	<b>Mon 05-04-11</b>	<b>Tue 09-09-15</b>																				
2	<b>IVA: CRITICAL SPOTS</b>	<b>Thu 05-09-01</b>	<b>Sun 06-12-31</b>																				
3	<b>ACT 1: Determine and rank critical spot sources of water quality degradation</b>	<b>Thu 05-09-01</b>	<b>Sun 06-12-31</b>																				
4	Review previous and ongoing monitoring system and assess methodologies and/or technical guidelines (including target contaminants, QA/QC, intercalibration exercises, data exchange, etc.) (contract 1)	Thu 05-09-01	Fri 06-03-31																				
5	Develop technologies for monitoring contaminants and nutrients (contract 1)	Thu 05-09-01	Fri 06-03-31																				
6	Present outcomes of ranking, data and info in WG meeting 2	Tue 05-10-25	Fri 05-10-28																				
7	Prepare a regional synthesis (consultant 1)	Thu 05-12-01	Wed 06-05-17																				
8	Finalise national outputs and synthesis (WG meeting 3)	Mon 06-09-04	Thu 06-09-07																				
9	Publish the outcomes (printing)	Fri 06-09-08	Mon 06-10-09																				
10	Inputs to final TDA	Thu 05-12-01	Sun 06-12-31																				
11	<b>IVB: CONTAMINANT LEVELS</b>	<b>Mon 05-04-11</b>	<b>Wed 08-12-31</b>																				
12	<b>ACT 1: Develop baseline data and summarize contaminant and nutrient levels in the YSLME</b>	<b>Thu 05-09-01</b>	<b>Sat 07-02-03</b>																				
13	Review existing data & info on contaminant levels (contract 1)	Thu 05-09-01	Fri 06-03-31																				
14	Data quality control for baseline data WG meeting 2	Tue 05-10-25	Fri 05-10-28																				
15	Present outcomes of ranking, data and info in WG meeting 2	Tue 05-10-25	Wed 06-09-13																				
16	Environmental Survey with other working groups (if not, need ship time)	Fri 06-09-01	Sat 06-09-30																				
17	Environmental Survey with other working groups - winter	Thu 07-01-04	Sat 07-02-03																				
18	Prepare a regional synthesis (consultant 1)	Thu 05-12-01	Wed 06-05-17																				
19	Finalise national outputs and synthesis (WG meeting 3)	Mon 06-09-04	Thu 06-09-07																				
20	Inputs to final TDA	Mon 05-10-03	Fri 06-12-29																				
21	<b>ACT 2: Develop regional monitoring network strategy</b>	<b>Mon 05-04-11</b>	<b>Wed 08-12-31</b>																				
22	Establish a monitoring network / or use the existing ones (PMO)	Mon 05-04-11	Wed 05-08-31																				
23	Draft monitoring guidelines / standards (consultant 2)	Wed 05-08-31	Sat 05-12-31																				
24	Agree on the guidelines / standards (WG Meeting 3)	Mon 06-09-04	Thu 06-09-07																				
25	<a href="#">Intercalibration exercise of participating labs (Contract 3)</a>	Thu 05-12-01	Wed 08-12-31																				
26	Development of indicators to assess the implementation of relevant international conventions (consultant 2)	Mon 07-01-01	Tue 07-07-31																				
27	<b>ACT 3: Develop funding mechanism to implement the monitoring strategy</b>	<b>Mon 05-08-01</b>	<b>Fri 06-12-29</b>																				
28	Prepare format for data & info collection (PMO), no need to rank the spots	Mon 05-08-01	Sat 05-10-15																				
29	Identification of hot spots (contract 1)	Thu 05-09-01	Fri 06-03-31																				
30	Contract to relevant national institution(s) to collect hot spots data and information (contract 1)	Thu 05-09-01	Fri 06-03-31																				
31	Discussion & further requirements (WG meeting 2)	Tue 05-10-25	Thu 06-04-06																				
32	Revise the hot spots data & info (contract 1)	Thu 05-09-01	Fri 06-03-31																				
33	Inputs to final TDA	Mon 05-10-03	Fri 06-12-29																				
34	<b>IVC: Analysis of the Fate and Transport of Contaminants to Facilitate</b>	<b>Mon 05-10-03</b>	<b>Mon 07-12-31</b>																				
35	<b>ACT 1: Review existing understanding of fate and transport of contaminants and nutrients</b>	<b>Mon 05-10-03</b>	<b>Sat 07-08-04</b>																				
36	Review existing understanding (contract 1) (workshop)	Thu 06-08-31	Sat 06-09-02																				
37	Present outcomes of reviewing from national outputs in WG meeting 3	Mon 06-09-04	Thu 06-09-07																				
38	Prepare a regional synthesis (consultant 3) - TBD	Mon 06-01-02	Fri 06-04-28																				
39	Finalise national outputs and synthesis (WG meeting 4)	Wed 07-08-01	Sat 07-08-04																				
40	Practice & intercalibration of the procedure (contract 4) - TBD	Mon 06-05-01	Sat 06-09-30																				
41	Publish the outcomes (printing)	Mon 06-10-02	Tue 06-10-31																				



### Agreed Investment Component Workplan for 2009 (Condensed)

<b>Activity</b>	<b>Timeline</b>
<b>Public awareness activities:</b>	
4 <sup>th</sup> Yellow Sea Partnership Workshop	Sep/Oct 2009
4 <sup>th</sup> Youth Programme	Aug 2009
Voluntary Internship Programme	Year-round
Associate Expert Programme	Year-round
Co-operation with other Organisations and Projects	Year-round
<b>SAP/NSAP preparation/implementation:</b>	
CBA of demonstration activities (ongoing)	Second half of 2008 – first half of 2009
<b>National co-ordination:</b>	
Training on fund raising	First half of 2009
<b>Data and information management:</b>	
Operation and maintenance of the regional GIS and meta databases	Year-round
<b>Cross component:</b>	
2 <sup>nd</sup> Regional Science conference	Autumn 2009

ID	Task Name	Duration	Start	Finish	2005 Qtr	2005 Qtr	2005 Qtr	2005 Qtr	2006 Qtr	2006 Qtr	2006 Qtr	2006 Qtr	2007 Qtr	2007 Qtr	2007 Qtr	2007 Qtr	2008 Qtr	2008 Qtr	2008 Qtr	2008 Qtr	2009 Qtr	2009 Qtr	2009 Qtr	2009 Qtr				
					Jan e	a Apr	a Jun	Jul u	e Oct	o e	Jan e	a Apr	a Jun	Jul u	e Oct	o e	Jan e	a Apr	a Jun	Jul u	e Oct	o e	Jan e	a Apr	a Jun	Jul u	e Oct	o e
1	<b>OBJECTIVE V: DEVELOPMENT OF REGIONAL INSTITUTIONS AND CAPACITIES</b>	1320 days?	Fri 04-12-31	Thu 09-12-31	[Gantt bar]																							
2	<b>VA. Stakeholders</b>	1305 days?	Mon 05-01-03	Fri 09-12-11	[Gantt bar]																							
3	<b>ACT 1: Identify stakeholders and assess their capacities for contributing to environmental management and decision-making</b>	137 days?	Wed 06-03-01	Thu 06-09-07	[Gantt bar]																							
4	Contract to institutions(experts)(Contract)--Governance Analy	132 days?	Wed 06-03-01	Thu 06-08-31	[Task bar]																							
5	Produce a regional list (PMO)	5 days?	Fri 06-09-01	Thu 06-09-07	[Task bar]																							
6	<b>ACT 2: Strengthen stakeholder capacities</b>	1009 days?	Mon 06-02-20	Fri 09-12-11	[Gantt bar]																							
7	Prepare training materials for all stakeholders (contract)	761 days?	Mon 06-02-20	Wed 08-12-31	[Task bar]																							
8	Training for decision makers (Training 1)--Local Government	3 days?	Tue 07-07-10	Thu 07-07-12	[Task bar]																							
9	Training for community trainers (Training 2)--Small grants	2 days?	Mon 07-09-03	Tue 07-09-04	[Task bar]																							
10	Training for local governmental officers (Training 3)--Local G	3 days?	Mon 06-09-25	Wed 06-09-27	[Task bar]																							
11	Intern programme--Full time & voluntary	1002 days?	Wed 06-03-01	Fri 09-12-11	[Task bar]																							
12	Site visits by government officials--Local Government Training	1 day	Wed 06-09-27	Wed 06-09-27	[Task bar]																							
13	"The Yellow Sea and Youth"--Youth Programme	15 days	Thu 06-09-14	Wed 09-08-19	[Task bar]																							
14	<b>ACT 3: Encourage routine and effective involvement of stakeholders in environmental and resource management and decision-making</b>	1305 days?	Mon 05-01-03	Fri 09-12-11	[Gantt bar]																							
15	Publish newsletters of the project	1305 days?	Mon 05-01-03	Fri 09-12-11	[Task bar]																							
16	Printing newsletters	1305 days?	Mon 05-01-03	Fri 09-12-11	[Task bar]																							
17	Regular stakeholders conference (1/yr)--YSP regular meeting	5 days?	Wed 06-03-15	Tue 09-09-29	[Task bar]																							
18	<b>VB. Regional Coordination</b>	1319 days?	Mon 05-01-03	Thu 09-12-31	[Gantt bar]																							
19	<b>ACT 1: Create a functioning regional coordination mechanism to carry out the YSLME Project</b>	65 days?	Mon 05-01-03	Fri 05-04-01	[Gantt bar]																							
20	Programme Coordinator	65 days?	Mon 05-01-03	Fri 05-04-01	[Task bar]																							
21	Economist	65 days?	Mon 05-01-03	Fri 05-04-01	[Task bar]																							
22	Scientific Officer	65 days?	Mon 05-01-03	Fri 05-04-01	[Task bar]																							
23	Public Advisor	65 days?	Mon 05-01-03	Fri 05-04-01	[Task bar]																							
24	Local Staff at PMO:	65 days?	Mon 05-01-03	Fri 05-04-01	[Task bar]																							
25	Secretary	65 days?	Mon 05-01-03	Fri 05-04-01	[Task bar]																							
26	Driver	65 days?	Mon 05-01-03	Fri 05-04-01	[Task bar]																							
27	Administrative Assistant	65 days?	Mon 05-01-03	Fri 05-04-01	[Task bar]																							
28	Administrative Officer	65 days?	Mon 05-01-03	Fri 05-04-01	[Task bar]																							
29	IT Supporting staff	65 days?	Mon 05-01-03	Fri 05-04-01	[Task bar]																							
30	<b>ACT 2: Prepare TDA</b>	136 days?	Tue 06-08-01	Wed 07-01-31	[Gantt bar]																							
31	Review preliminary TDA, and suggest improvements (consult	4 days?	Tue 06-08-01	Fri 06-08-04	[Task bar]																							
32	Discuss draft, and decide new format (WG meeting 3)	3 days?	Sat 06-09-09	Tue 06-09-12	[Task bar]																							
33	Gathering data & info from national review report on the project components (PMO)	13 days?	Thu 06-09-14	Sat 06-09-30	[Task bar]																							
34	Second draft of TDA (consultant)	21 days?	Tue 06-10-03	Tue 06-10-31	[Task bar]																							
35	2nd discussion on the draft (RSTP, PSC)	4 days?	Thu 06-11-16	Tue 06-11-21	[Task bar]																							
36	Revise the TDA	16 days?	Fri 06-11-24	Fri 06-12-15	[Task bar]																							
37	Finalise TDA	16 days?	Mon 06-12-18	Thu 07-01-04	[Task bar]																							
38	Printing the final TDA	19 days?	Fri 07-01-05	Wed 07-01-31	[Task bar]																							
39	<b>Act 3: Prepare Regional SAP</b>	487 days?	Mon 07-03-05	Wed 08-12-31	[Gantt bar]																							
40	Guideline for cost-benefit analysis	200 days	Mon 07-03-05	Fri 07-11-30	[Task bar]																							
41	Prepare a draft regional SAP (consultant)	26 days	Mon 07-12-03	Sat 08-01-05	[Task bar]																							
42	Discuss the draft at the WG meeting-Drafting group 1st	25 days	Mon 08-01-07	Fri 08-02-08	[Task bar]																							
43	Revise the draft SAP & prepare version #2	45 days?	Mon 08-01-21	Fri 08-03-21	[Task bar]																							
44	Discuss version #2-Drafting group 2nd, special PSC	40 days	Mon 08-03-24	Fri 08-05-30	[Task bar]																							
45	Revise the draft SAP, & prepare version #3	41 days?	Sat 08-05-31	Fri 08-07-25	[Task bar]																							
46	Discuss version #3, & finalise the regional SAP (RSTP, PSC )-	87 days	Mon 08-07-28	Fri 08-11-21	[Task bar]																							
47	Printing regional SAP	25 days?	Thu 08-11-27	Wed 08-12-31	[Task bar]																							
48	<b>Act 4: Prepare nat'l SAP</b>	397 days?	Mon 07-12-31	Tue 09-06-30	[Gantt bar]																							
49	Assess all national information & prepare for a framework of	109 days?	Wed 08-01-02	Fri 08-05-30	[Task bar]																							
50	National meetings-1 on NYSAP	54 days?	Mon 07-12-31	Wed 08-03-12	[Task bar]																							
51	Revise NYSAP	123 days?	Mon 08-05-12	Fri 08-10-24	[Task bar]																							
52	Finalise NYSAP	228 days?	Mon 08-04-14	Fri 09-02-20	[Task bar]																							
53	Print NYSAP	71 days?	Tue 09-03-24	Tue 09-06-30	[Task bar]																							
54	<b>Act 5: Partners of the Yellow Sea</b>	1305 days?	Fri 05-01-21	Thu 09-12-31	[Gantt bar]																							
55	Create partnerships with other organisations and projects--YS	1305 days?	Fri 05-01-21	Thu 09-12-31	[Task bar]																							
56	<b>VC: NATIONAL INSTITUTIONS</b>	1305 days?	Mon 05-01-03	Fri 09-12-11	[Gantt bar]																							
57	<b>ACT 1: Review and assess national institutions to support</b>	127 days?	Fri 05-07-01	Fri 05-12-23	[Gantt bar]																							
58	Contract to nat'l focal points (Contract)	87 days?	Fri 05-07-01	Mon 05-10-31	[Task bar]																							
59	Finalise the review report (WG meeting)	39 days	Wed 05-11-02	Fri 05-12-23	[Task bar]																							
60	<b>ACT 2: Facilitate national institutions to be effective stewards of the YSLME</b>	1305 days?	Mon 05-01-03	Fri 09-12-11	[Gantt bar]																							

ID	Task Name	Duration	Start	Finish	2005 Qtr	2005 Qtr	2005 Qtr	2005 Qtr	2006 Qtr	2006 Qtr	2006 Qtr	2006 Qtr	2007 Qtr	2007 Qtr	2007 Qtr	2007 Qtr	2008 Qtr	2008 Qtr	2008 Qtr	2008 Qtr	2009 Qtr	2009 Qtr	2009 Qtr	2009 Qtr				
					Jan e	a Apr	a Jun	Jul u	e Oct	o e	Jan e	a Apr	a Jun	Jul u	e Oct	o e	Jan e	a Apr	a Jun	Jul u	e Oct	o e	Jan e	a Apr	a Jun	Jul u	e Oct	o e
61	Local project office, Provision of necessary equipment	520 days?	Mon 05-01-03	Tue 06-12-26	[Gantt bar]																							
62	Enhance communications	1305 days?	Mon 05-01-03	Fri 09-12-11	[Gantt bar]																							
63	Provide technical trainings	125 days?	Mon 06-07-03	Mon 09-07-27	[Gantt bar]																							
64	Seminars for research community	1305 days?	Mon 05-01-03	Fri 09-12-11	[Gantt bar]																							
65	Study tours for govt officials 1/yr (local govt)--Local Governm	3 days?	Mon 06-09-25	Wed 06-09-27	[Gantt bar]																							
66	<b>Act 3: Establish National Coordination Unit within existing framework to assure intersectoral coordination</b>	495 days?	Mon 05-02-14	Sun 06-12-31	[Gantt bar]																							
67	Establish IMCC (meeting to decide)	65 days?	Wed 06-10-04	Sun 06-12-31	[Gantt bar]																							
68	Appoint NPC	65 days?	Mon 05-02-14	Fri 05-05-13	[Gantt bar]																							
69	Establish NCU (need equipment, staff)	65 days?	Mon 05-10-03	Thu 05-12-29	[Gantt bar]																							
70	Establish NWGs	65 days?	Mon 05-10-03	Thu 05-12-29	[Gantt bar]																							
71	<b>Act 4: Develop proposals to strengthen national institutions to enhance their ability to contribute to environmental management and decision-making</b>	548 days?	Mon 05-01-03	Wed 07-01-31	[Gantt bar]																							
72	Together with Activity 2, Strengthen national institutions to be part of TDA development	548 days?	Mon 05-01-03	Wed 07-01-31	[Gantt bar]																							
73	<b>VD: FINANCIAL INSTRUMENTS</b>	992 days?	Mon 06-01-02	Wed 09-09-30	[Gantt bar]																							
74	<b>ACT 1: Review status and potential for financial sustainability of YSLME regional institutional framework</b>	141 days?	Wed 06-03-01	Tue 06-09-12	[Gantt bar]																							
75	Contract to institution (contract to national focal point)--Gove	132 days?	Wed 06-03-01	Thu 06-08-31	[Gantt bar]																							
76	Discuss & finalise the review report (WG meeting 3)	3 days?	Sat 06-09-09	Tue 06-09-12	[Gantt bar]																							
77	<b>ACT 2: Provide training in environmental project identification and preparation</b>	746 days?	Sat 06-09-09	Tue 09-06-30	[Gantt bar]																							
78	Identify the training needs (WG meeting 3)	3 days	Sat 06-09-09	Tue 06-09-12	[Gantt bar]																							
79	Training #1 Project document preparation	2 days?	Mon 07-10-22	Tue 07-10-23	[Gantt bar]																							
80	Training #2 Fund raising	22 days	Mon 09-06-01	Tue 09-06-30	[Gantt bar]																							
81	<b>ACT 3: Assist and encourage the continuation of project preparation and feasibility studies for long-term environmental investment to implement the SAP and</b>	203 days?	Mon 08-02-04	Fri 08-11-07	[Gantt bar]																							
82	Prepare draft proposal (consultant)--Financial Sustainability,	86 days?	Mon 08-02-04	Sat 08-05-31	[Gantt bar]																							
83	PSC to discuss	5 days	Mon 08-11-03	Fri 08-11-07	[Gantt bar]																							
84	<b>ACT 4: Provide matched fund for small grant project</b>	794 days?	Mon 06-01-02	Mon 08-12-29	[Gantt bar]																							
85	Identify the topics of small grant project (PMO)	66 days?	Mon 06-01-02	Wed 08-01-30	[Gantt bar]																							
86	Provide matched funds for the approved projects (contracts )	725 days?	Wed 06-02-01	Mon 08-12-29	[Gantt bar]																							
87	Matched grants	725 days?	Wed 06-02-01	Mon 08-12-29	[Gantt bar]																							
88	<b>ACT 5: Provide funding for pre-feasibility studies of promising technologies and industries to help achieve the goals of the YSLME, to create an investment portfolio</b>	549 days?	Mon 07-09-03	Wed 09-09-30	[Gantt bar]																							
89	Prepare pre-feasibility studies (consultant)--Technical F/S	66 days?	Mon 07-09-03	Fri 07-11-30	[Gantt bar]																							
90	Discuss & finalise pre-feasibility study(WG meeting, RSTP)	54 days?	Mon 07-09-17	Wed 07-11-28	[Gantt bar]																							
91	Submit to PSC for approval	2 days?	Thu 07-11-29	Fri 07-11-30	[Gantt bar]																							
92	Demonstration projects (contracts)--CBA of Demo projects	410 days	Wed 08-03-12	Wed 09-09-30	[Gantt bar]																							
93	<b>VE: DATA AND INFORMATION MANAGEMENT</b>	1320 days?	Fri 04-12-31	Thu 09-12-31	[Gantt bar]																							
94	<b>ACT 1: Determine regional data and information management capabilities</b>	216 days?	Mon 05-01-03	Mon 05-10-31	[Gantt bar]																							
95	Review regional data & info systems, i.e. regional data centre, NEAR-GOOS, NOWPAP DINRAC, (consultant)	129 days?	Mon 05-01-03	Thu 05-06-30	[Gantt bar]																							
96	Prepare a proposal for DIM (consultant)	87 days?	Fri 05-07-01	Mon 05-10-31	[Gantt bar]																							
97	<b>ACT 2: Develop an effective regional DIM strategy to help achieve the goals of the YSLME</b>	1320 days?	Fri 04-12-31	Thu 09-12-31	[Gantt bar]																							
98	Decide where database should be hosted	130 days?	Fri 04-12-31	Thu 05-06-30	[Gantt bar]																							
99	Discuss and approve DIM proposal, including guidelines (WG	25 days	Tue 05-11-15	Sat 05-12-17	[Gantt bar]																							
100	Equipment (GIS software, hardware)	109 days?	Mon 06-04-03	Thu 06-08-31	[Gantt bar]																							
101	Training on DIM-- Technical workshop	1 day?	Sun 08-08-24	Sun 08-08-24	[Gantt bar]																							
102	Operation of DIM	875 days	Wed 06-09-13	Thu 09-12-31	[Gantt bar]																							
103	<b>ACT 3: Implement the regional DIM strategy, including equipment, facilities, and communications</b>	79 days?	Fri 06-09-15	Sun 06-12-31	[Gantt bar]																							
104	To identify sustainable means for the DIM	79 days?	Fri 06-09-15	Sun 06-12-31	[Gantt bar]																							
105	<b>VF: Public Awareness and Participation</b>	1319 days?	Mon 05-01-03	Thu 09-12-31	[Gantt bar]																							
106	<b>ACT 1: Develop a public awareness campaign</b>	444 days?	Mon 05-01-03	Tue 06-09-12	[Gantt bar]																							
107	Preparation of public awareness campaign (PMO)--Public Awz	326 days?	Mon 05-01-03	Fri 06-03-31	[Gantt bar]																							
108	Agree on the campaign (WG meeting 3)	3 days	Sat 06-09-09	Tue 06-09-12	[Gantt bar]																							
109	<b>ACT 2: Demonstrate regional public awareness/participati</b>	517 days?	Wed 05-11-02	Sat 07-10-13	[Gantt bar]																							
110	Organise public awareness conferences (contracts)--Parliame	5 days	Tue 06-03-28	Sat 07-10-13	[Gantt bar]																							
111	Prepare public awareness materials (Contracts)	174 days?	Wed 05-11-02	Fri 06-06-30	[Gantt bar]																							
112	Produce multi-media, e.g. project pins, mouse pads, posters,	174 days	Wed 05-11-02	Fri 06-06-30	[Gantt bar]																							
113	Public awareness training-twice	1 day	Mon 07-01-01	Mon 07-01-01	[Gantt bar]																							
114	<b>ACT 3: Encourage ongoing public awareness and participation activities to help achieve the goals of the</b>	1305 days?	Fri 05-01-21	Thu 09-12-31	[Gantt bar]																							
115		1305 days?	Fri 05-01-21	Thu 09-12-31	[Gantt bar]																							