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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.4/3  
Date: 30 November 2007  
English only

**Fourth Meeting of the Project Steering Committee  
for the UNDP/GEF Yellow Sea Project**  
*Guangzhou, China, 29-30 November 2007*

**Report of the Meeting**



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

### **1.1 Welcome addresses**

- 1.1.1 On behalf of the United Nations Development Programme (UNDP), Mr. Zhe YANG opened the meeting. He thanked the Governments of China and Republic of Korea (ROK) for their active participation in the project, he appreciated their co-operation in all matters, particularly that of the cruise. He welcomed all participants, including the observers from Democratic Peoples Republic of Korea (DPRK). Mr. Yang also welcomed Ms. Anna TENGBERG, from UNDP/GEF and Mr. Andrew MENZ, from UNOPS.
- 1.1.2 Mr. Zhe Yang appreciated the PMO's hard work in project implementation and reminded the participants that the Project Steering Committee (PSC) was here to review the progress and achievements in the Project implementation. He reiterated the need to link project outputs with outcomes to show tangible results obtained by the project. He noted the project had started the Strategic Action Programme (SAP) process.
- 1.1.3 On behalf of the Government of China, Mr Lixin LI, the Director General of SOA's South Sea Branch, welcomed all participants to the meeting. He indicated that during the last inter-sessional period, the project had many notable achievements. He congratulated the successful organisation of the 4<sup>th</sup> RSTP meeting where members reviewed YSLME activities since the 3<sup>rd</sup> RSTP/PSC meeting. Among the important achievements is the publishing of the Transboundary Diagnostic Analysis (TDA) and the agreement on the co-operative cruises. He mentioned that this year the project has entered a new phase, that of the SAP. He noted the joint efforts in deciding the regional targets and management actions and stated that the drafting and implementation of the SAP will be the main focus over the next 2 years. Mr Li expressed his pleasure that the project has chosen to have its PSC meeting in Guangzhou and he hoped that the experiences from the Yellow Sea project can be used to address similar environmental problems in China's South Sea
- 1.1.4 On behalf of the Government of Republic of Korea, Ms. Young Shil KANG welcomed the all delegates, particular the delegation from China, the observers from DPRK, and the PMO. She gave a high evaluation of the implementation rate of the project activities including that of the SAP preparation and other activities, especially the involvement of the DPRK and progress on the co-operative cruises. Ms. Kang hoped the meeting will help finalize arrangements for the SAP and future activities. She welcomed all the participants to the Guangzhou and wished everyone a pleasant stay
- 1.1.5 Mr Chol NAM of DPRK thanked all participants for the invitation of the DPRK and the willingness of members to involve the DPRK in the project. He stated that DPRK's participation in the meeting was important in deciding the future participation of DPRK in the project. He wished the PSC a successful meeting and hoped that innovative suggestions could be made to further include DPRK in the project.
- 1.1.6 Mr. Won-Tae SHIN of PEMSEA, introduced the role of PEMSEA and their recent development in obtaining funding from the governments of China, ROK and Japan and new offices from the Philippine Government. He also mentioned that PEMSEA has recently obtained funding from GEF for the implementation of Sustainable Development Strategy for the Seas of East Asia (SDS-SEA). Mr. Shin expressed his gratitude to YSLME for inviting him to the PSC as an observer and hoped their co-operation would continue.

1.1.7 Mr. Songlin WANG on behalf of WWF expressed his gratitude to the YSLME for being invited as an observer, so that he could carry the decisions from the PSC to the YSESP to enable closer and more effective co-operation with WWF's partners.

## **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 As an agreed practical arrangement, Mr. Zhe Yang invited the Chinese delegates to nominate the Chairperson for the meeting. Mr. Mingyuan ZHU nominated Mr. Fengkui LIANG to be the Chairperson of the meeting. The Meeting agreed with the nomination, and Mr. Liang was duly elected.

2.1.2 Ms. Young Shil KANG nominated Mr. Jae Young LEE from ROK, to be the Vice Chairperson of the meeting. The Meeting agreed with this nomination, and Mr. Lee was elected as Vice Chairperson.

2.1.3 The PMO served as Rapporteur and Secretariat.

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

2.2.1 The Chairperson invited the PMO to introduce the documents prepared for the meeting.

2.2.2 Mr. Mark WALTON introduced two kinds of documents, working documents and information documents, for the meeting. He explained that 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 The Chairperson invited PMO to introduce the meeting organisation document.

2.3.2 Mr. Walton introduced the meeting agenda and informed the meeting that Document UNDP/GEF/YS/PSC.3/inf.3 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 The Chairperson introduced the Provisional Agenda (Document UNDP/GEF/YS/PSC.3/1) and the Provisional Annotated Agenda (Document UNDP/GEF/YS/PSC.3/2), and invited participants to provide comments on them.
- 3.2 **The Meeting adopted the agenda, without modification**, which is attached as [Annex III](#) to this report.
4. **PROJECT MANAGER'S REPORT ON THE IMPLEMENTATION OF PROJECT ACTIVITIES (DOCUMENT UNDP/GEF/YS/RSP.4.4) ([Annex IV](#))**
- (i) Implementation of Project Activities*
  - (ii) Co-operation with other Organisations and Projects*
  - (iii) Report on the Project Management Office (PMO)*
  - (iv) Mid-term Evaluation*
  - (v) Financial Report*

**Implementation of projects activities and co-operation with other organisations and projects**

- 4.1 Mr. Jiang presented the Project Manager's report, highlighting some of the major achievements over the past year which are the outputs and outcomes of the project, including:
- Enhanced co-operation mechanisms;
  - Increased trust for better co-operation;
  - Improved knowledge on Yellow Sea ecosystem;
  - Preparation of major outputs;
  - Increased public awareness;
  - Strengthened regional partnerships; and
  - Improved management for future operation
- 4.2 Mr Jiang provide additional details including:
- He informed the meeting that economic valuation guidelines had been drafted, as well as the regional governance analysis which recommends the setting up of a YSLME Commission;
  - The "Regional Conference on Protection of the Marine Environment and Sustainable Use of Marine Resources in the Yellow Sea" strengthened regional co-operation, and examined the establishment of a mechanism for more regular meetings of this kind through parliamentary committees;
  - Consideration of funding for the project's 2<sup>nd</sup> phase had begun, with China and ROK considering how each government can contribute additional resources;
  - The ocean colour algorithm activity was a good example of increased regional co-operation with the sharing of data among China, ROK, and Japan. There exists a regional agreed algorithm but it does not work in turbid waters like the Yellow Sea it was therefore decided that a YS algorithm was needed;
  - The project's databases will be linked to other existing ones in the region, with data exchange allowed;
  - Initial agreement was reached on the technical issues related to the co-operative cruise;
  - The Regional Science Conference held in August 2007 displayed new and improved knowledge on the Yellow Sea ecosystem, e.g. jellyfish bloom, mariculture diseases, atmospheric deposition of pollutants, mariculture carrying capacity, genetic diversity to prevent disease outbreak, results of the

CPR survey with ship time contributed by China, inter-comparison exercises for analysis of nutrients, metals, and organics. These knowledge provided important information for preparing SAP and to design demonstration activities

- Major outputs of the project included the publication of the “Data & Information Activity results, and publication of the TDA;
- SAP preparation had started, with some feasibility studies done and management targets and actions agreed on. A cost-benefit analysis, political & social acceptance analysis, and 3 drafting group meetings would be held in 2008;
- During 2007, public awareness programmes included a youth awareness programme held in Dandong, China, contributing to the idea of a possible future 3-country youth programme; a capacity building activity for local government officers on marine function zoning and sea use; and the continuation of the Yellow Sea Partnership with joint activities carried out in Busan, ROK and Rizhao, China;
- Regional partnership was strengthened with the YSESP Project through the development of a joint workplan and agreement on co-implementing common activities in conservation of biologic diversity;
- A mid-term evaluation and internal audit gave the highest grade of “satisfactory” for project implementation and some recommendations that will help improve project management; and
- The PMO continued to issue quarterly newsletters to update the public on project implementation.

4.3 Some challenges to project implementation were still to be overcome including:

- Although additional stakeholders (universities, local govt agencies) were now involved in the project, there is still a need to strengthen the IMCC, as SAP approval is approaching.
- Occasional changes in NWG and RWG members still occurred although this had improved somewhat.
- Lack of institutional incentives remains as a challenge, and reporting on co-financing resources from countries was still weak.
- While respect for deadlines, follow-up on actions/agreements from meetings, quality of outputs, and communication between PMO and partners had improved since project inception, there is still room for further progress. The same applied to building trust among partners.

#### Report on the Project Management Office (PMO)

4.4 Mr. Jiang thanked KORDI for providing a larger office space for the PMO this year. Mr. Mark WALTON was hired as the new programme officer for the fisheries and biodiversity components; two interns completed their tenure with the PMO; and 2 new interns Mr Yunil KIM and Ms. Ming YU have recently joined the PMO.

#### Financial Report

4.5 Mr. Jiang explained the 2007 Expenditure Report with and without the co-operative cruise. He explained the rate of spending, activity implementation, and that some savings resulted from the combination / revision of activities. He answered questions raised in the RSTP about the expenditure on meetings, reporting that the project had spent 9% of the budget on meetings in 2007, with 4% forecasted in 2008 and 8% in 2009.

- 4.6 The Chairperson thanked the Project Manager for the informative report and reiterated some of the important points raised including enhanced trust through data sharing, the joint cruise and SAP preparation.
- 4.7 Ms. Kang thanked the PMO for the significant progress in project implementation, asking the PMO to take an action to study the possibility of implementing the Yellow Sea Commission, and report progress at the next PSC meeting. Mr. Jiang appreciated the comments of Ms. Kang and suggested that PMO will prepare a strategy document for the establishment of the YS commission, in consultation with relevant governments of the participating countries.
- 4.8 Mr. Menz responded to earlier suggestions that the project might charge for the recently published National Reports and Regional synthesis saying that it was better that we targeted the recipients of the reports.
- 4.9 Ms. Tengberg stated that there was a good chance of further funding for the second phase, but this depended on the implementation of the co-operative cruises, she noted that the ROK was no longer eligible for funding, but indicated that DPRK is eligible for GEF funding once UNDP resumes operation in DPRK. She suggested that atmospheric deposition is not commonly considered in GEF LME projects but that it was an important issue. Mr. Jiang thanked Ms. Tengberg for explanation of the GEF policy on further funding. Regarding the question of atmospheric deposition, he stated that the YS had one the highest rates comparing with other regions, e.g. the North Sea. Mr. Jiang expressed his enthusiasm for more relevant information from the Worldbank/GEF on dealing with the land-based pollution in the seas of the East Asia. Ms. Tengberg agreed to assist in this matter.
- 4.10 Mr. Lee commented that as the project will promote ecosystem-based management, it is important to include a fisheries component in the co-operative cruises. He suggested that necessary negotiation should be continued to include fisheries component in the 2nd cruise. Mr Jiang replied that even though no agreement had been reached, PMO will continue negotiate with the Government of China on this issue. He reported to the meeting that during the 4<sup>th</sup> RWG – Fisheries meeting members agreed that if there is no agreement on inclusion of the fishery component in the second co-operative cruise, they will carry out a regional stock assessment with 4 surveys performed in 2008, using separate vessels of China and ROK. He thanked Mr. Xianshi JIN and Ms. Inja YEON for their efforts and co-operative spirit.
- 4.11 Mr. Zhe Yang thanked Mr. Jiang for his presentation on the projects activities. He encouraged the project not to be limited to the outputs and outcomes stated in the project document. He considered the establishment of the Yellow Sea Commission a good idea to ensure the sustainability of the project. He further noted the MTE raised the issue of the project administration costs which were over 50%. He asked PMO to work with UNOPS to explore ways to lower the administrative costs or reflect them in a more accurate way. He also hoped PMO could improve the accuracy of its 2008 budget.
- 4.12 Mr. Menz indicated the budget mismatch, came from anticipated expenditure that had been overestimated, largely due to the postponement of the cruises. When it became clear that the cruises were not going to happen in 2007 the budget was reduced. In response to the high administrative costs, he suggested that most of the time staff spent is on substantive issues, and very little time is actually spent on administration and as such the budget should reflect this divide.

- 4.13 In reply Mr. Jiang added that the note on the “high administration costs of the project” that appears in the MTE was a misunderstanding due to the ATLAS format of the budget. This was due to the inclusion of the contingency component, budget reserved for demonstration activities, in the administration cost. He suggested PMO can follow up with Mr. Menz’s suggestion and use the PRA to estimate time spent on substantive issues.
- 4.14 Ms. Tengberg added that GEF has new guidelines on dividing the budget according the staff time spent on administration and on technical matters. She agreed to provide new format to the PMO.
- 4.15 Mr. Nam commented that if DPRK had full participation in the project he is sure that after discussion with his government, the DPRK would join in the YS commission, however DPRK cannot make a quick decision as the country is not a full member yet.

#### Mid-term Evaluation

- 4.16 Mr. Jiang informed members that UNOPS and UNDP had selected the two consultants Dr. Ong Jin-Eong and Dr. Alan Fox to evaluate the project progress. The report noted the TDA/SAP structure utilised in the YSLME is common to many projects in the GEF International Waters project portfolio and has a good record of success. The report stated the project was well managed with appropriate financial and management structures. The consultants detailed a number of notable achievements by the project including: the TDA; successful attempts to engage parliamentarians; and were particularly interested in the co-financing mechanism developed with the YSESP/WWF. The report suggested that there was room for improvement in the financial planning, and gave 14 recommendations including:
- Enhancing fisheries management in the region;
  - Paying more attention to mariculture demonstration activities;
  - More attention being paid on habitat conservation;
  - Determination of the carrying capacity of YS ecosystem;
  - Extension of the small grants projects as for wider participation;
  - Continuation of the YSP;
  - Involving the DPRK as full member of the project.
- 4.17 Ms. Tengberg informed PMO that UNDP/GEF needed to receive a response for how these recommendations are going to be implemented.
- 4.18 With clarification provided by Ms. Tengberg, it was agreed that PMO will provide response to the recommendations in the MTE report.
- 4.19 On behalf of the Chinese Delegation, Mr. Zhu agreed with majority of findings of the MTE report and found the recommendations were helpful in the successful implementation of the project, and for obtaining funding for the 2<sup>nd</sup> phase of the project. He emphasised that the full involvement of DPRK into the project would be an important achievement.
- 4.20 On behalf of the Delegation of ROK, Ms. Kang indicated that most of the recommendations of the MTE are satisfactory to her government. She stated that the small grants programme had already been carried out for 2 years and suggested that the project should focus on the SAP preparation and demonstration activities. Mr Lee raised the issue of allocating budget. Concerning the importance and possibility of second phase of the YSLME, more attention and budget should be considered for the preparation of SAP

- 4.21 Mr. Menz asked about recommendation 12 in the MTE regarding the appointment of a communications expert and the need for increasing public involvement in the project. Mr Jiang replied that the project already had a public awareness strategy, and proposed a plan to hire a short term consultant to help in the public awareness and participation.
- 4.22 Mr Zhe Yang requested PMO prepare an action plan responding to the MTE recommendation within 2 weeks, he also stated UNDP's position on the DPRK's participation in the project which is reflected in the Agenda 6.
- 4.23 The meeting had extensive discussion on the recommendation to extend the small grant programme. The meeting agreed that following the recommendation, the small grant programme in 2008 should focus on issues relevant to the SAP, in particular the SAP demonstration activities.
- 4.24 **Following the acceptance of proposed actions and agreements as stated above, the meeting accepted the project manager's report.**

**5. REPORT FROM THE CHAIRPERSON OF THE RSTP ON THE OUTCOMES OF THE 4TH MEETING OF THE REGIONAL SCIENTIFIC AND TECHNICAL PANEL (RSTP)**

- 5.1 Mr. Zhu, the Chairperson of the Fourth Meeting of the Regional Scientific and Technical Panel (RSTP) informed the meeting on the outcomes and agreements made by the RSTP meeting (for detail see UNDP/GEF/YS/RSP.4/3), including:
- Project Manager's Report;
  - Reports of National Project Co-ordinators;
  - Reports from Chairpersons of Regional Working Groups;
  - Regional Governance Analysis
  - Regional GIS and Meta Databases
  - Preparation of the Strategic Action Programme (SAP)
  - Co-operative Cruise
  - Participation of DPR Korea in YSLME project
  - and Onwards;
  - Proposed budget and workplan for 2007;
  - Date & Venue for 4th RSTP; and
  - Discussion points for the PSC to consider.
- 5.2 The Chairperson thanked Mr Zhu for his report and opened the floor for comments
- 5.3 He noted that the RSTP's Chairs report asked that the PSC consider:
- An extension of the small grants programme;
  - A no-cost 6 month extension of the Project to enable the smooth transition in the event of funding being approved for a 2<sup>nd</sup> phase;
  - An additional USD 10,000 be found to permit a final Ocean colour workshop; and
  - The revised funding for the NSAP activity.

**Co-operative Cruise**

- 5.4 Mr. Lee requested clarification on the procedure for the organisation of the co-operative cruises. The meeting was informed that, as discussed previously, the co-operative cruises will be conducted following final approval from the governments of

China and ROK. A Memorandum of Agreement will be prepared and signed by the responsible ministries in both countries stating the agreements on the co-operative cruises, including the observation map and the agreement on the full sharing of data and samples generated from the cruises.

- 5.5 The Meeting appreciated the job that the Chairperson of the Fourth RSTP Meeting had done and his excellent work in leading the meeting in fruitful discussions. **The Meeting adopted the Fourth RSTP Meeting Report.**

## 6. INVOLVEMENT OF DPR KOREA IN THE PROJECT

- 6.1 Mr. Jiang reported on the progress made in involving DPRK into the Project as a full member, referring to Document UNDP/GEF/YS/RSP.4/10. He explained the background and history of this issue; including the background, agreed actions from the PSC to advance this issue, the current status, and planned activities for DPRK (capacity building on environmental pollution monitoring and assessment; training of scientists and young students; finding financial resources; and attendance at 4<sup>th</sup> RSTP and PSC Meetings). He thanked Mr. Nam for facilitating the visit of Project Manager and the SOA official to DPRK in 2005 to explain the project to SHMA.
- 6.2 Mr. Jiang informed the meeting that the MTE Report stated that DPRK's involvement in the project would be a valuable contribution to a more complete understanding and better management of the Yellow Sea. He reminded participants that a medium sized project proposal had been submitted to GEF to seek funds for implementing activities related to YSLME in DPRK. The response received from GEF was that when UNDP resumes operation in DPRK, funding might be possible.
- 6.3 Mr. Jiang mentioned that in the last RSTP meeting it was agreed that additional funding would be pursued, funding had already been found to facilitate the participation of DPRK in the 4<sup>th</sup> RSTP/PSC meeting and for a training course in environmental pollution monitoring and assessment. He thanked the co-funding agencies.
- 6.4 Mr. Nam stated that following the visit by Mr. Jiang and Mr. Wenxi Zhu, the representative of the China National Project Co-ordinator, SHMA understood the responsibilities and benefits to participate in the project. Following consultations with the National Co-ordinating Committee for Environment, the GEF Focal Point, an official endorsement letter was sent to the project and SHMA established a focal point in China to deal with this issue. Mr. Nam expressed his hope that the PSC could accept the DPRK as a full member of the project, considering the fact that the official endorsement letter was issued and the SHMA's focal point was established.
- 6.5 Ms. Tengberg informed that it was a purely financial limitation at present due to the fact that GEF funding at this point cannot be channelled through UNDP to DPRK. She stressed that co-financing can be used for DPRK participation and that the shutting of the UNDP office in DPRK did not prevent DPRK's participation in the project on technical matters.
- 6.6 Mr. Jiang responded that the delayed entry of DPRK into the project was beyond the Project's control and asked DPRK delegates on behalf of the PMO to please accept that PMO is trying hard to include the DPRK into the project.
- 6.7 On behalf of the Delegation of China, Mr. Zhu welcomed the participation of DPRK in the project following the recommendation of the RSTP.

- 6.8 On behalf of the Delegation of the Republic of Korea, Ms. Kang also welcomed the DPRK and hoped that the PMO can assist in their participation.
- 6.9 Mr. Zhe Yang noted the support for DPRK's participation in the YSLME project from both governments and felt that the DPRK's participation in the project important. He reiterated that due to the closure of the UNDP office in DPRK, UNDP cannot consider the full membership of the DPRK at this time. Nevertheless, UNDP welcomes the DPRK's participation in the YSLME project to be financed through other resources.
- 6.10 The meeting reviewed the recommendation of RSTP on this issue and agreed that YSLME Project welcome the participation of DPRK in the project. For the financial arrangements of DPRK's involvement, there is a need to explore necessary budget from other financial resources

## **7. PROPOSED WORKPLAN AND BUDGET FOR 2008 AND ONWARDS**

- 7.1 The Chairperson invited the Project Manager to introduce the budget and workplan for 2008 and onwards.
- 7.2 Mr. Jiang provided an outline of the budget breakdown and asked participants to check the budget and workplan in the meeting folder (UNDP/GEF/YS/RSP.4/11 & 4/12). He explained that increased funding in all project components in the proposed 2008 budget and onward was due to the focus of the project's implementation of the demonstration activities. He explained that the budget presented in the document was to assist members to appreciate the total estimated cost of planned activities over the next 2 years. It was pointed out by UNOPS that a detailed expenditure estimate for 2008 would be required. Mr Jiang suggested to take two-step approach:
- (i) discussing, improving and agreeing on the budget as discussed, modified and agreed by the RSTP;
  - (ii) based on the agreed budget, an annual expenditure estimation should be prepared, to provide best estimate expenditure planning for 2008.
- 7.3 **The PSC endorsed in principle the budget and workplan for 2008 and onward as proposed by RSTP which are attached as [Annex V](#) and [Annex VI](#), respectively.** However, the PSC was reminded that the PMO need to prepare best estimate of annual expenditure which may be different from the proposed budget.

## **8. OTHER BUSINESS**

- 8.1 The Chairperson invited the participants to propose any other business to be considered at the meeting.
- 8.2 Mr Jiang raised the issue of a launching ceremony if the co-operative cruises are successful. He wanted the members to decide whether to have a launching ceremony and what level of participation should be expected. He reminded members that as discussed in the RSTP, the cruises will contribute substantive scientific knowledge, e.g impacts of climate change in the Yellow Sea ecosystem.

**8.3 The meeting agreed on a launching ceremony and the need to try and mobilize senior level officers to attend the ceremony possibly Minister or Director General level.**

**9. DATE AND VENUE OF NEXT PSC MEETING**

9.1 The Chairperson informed the meeting that it is customary to have PSC meetings alternating between the participating countries and as such the 5<sup>th</sup> RSTP/PSC meeting was due to be held in ROK.

9.2 Mr. Jiang proposed the last week of November for the RSTP/PSC meeting and also proposed a special PSC in April to examine the draft SAP and to agree the final version that will go through each country's endorsement process and be signed by the each country's focal point.

9.3 Ms. Tengberg suggested shortening the period of the next RSTP/PSC meetings if possible.

9.4 Mr Nam requested that a convenient location be chosen that would permit the attendance of DPRK.

**9.5 Members agreed that the in order to facilitate participation of DPRK in next PSC meeting, the meeting venue would be decided later by the PMO in consultation with the NPCs. The meeting agreed that the 5<sup>th</sup> RSTP/PSC meetings should be held 24-28 November 2008, and a Special PSC to be held during the week of 21-25 of April 2008 if a draft SAP is available by then.**

**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 Chairperson summarised the outputs of the meeting saying that members had made some important decisions that would pave the way for the SAP development and 2<sup>nd</sup> phase of the project, these included the endorsement of the NYSC and 6 month extension. He thanked all participants for their hard work.

11.2 Mr. Zhe Yang agreed with earlier comments by Ms. Tengberg that the RSTP and PSC meetings are too long and suggested to shorten the duration from five days to three days (two days for RSTP and one day for PSC). To make the meetings more effective, arrangement of the meetings has to be improved. He also suggested that meeting minutes of 2-3 pages be prepared to reflect agreements, decisions and disagreements for adoption by the PSC. If necessary, a record of the detailed discussion at PSC meeting, including each of every words said by the participants may be also prepared and submitted to the governments after the PSC meeting.

11.3 Chairperson concurred that a record of the meeting would be useful and informed Mr. Zhe Yang that the Beijing office had been invited by the project but could not attend.

- 11.4 Ms. Kang thanked the Chairperson and appreciated the hard work of participants to achieve substantive outputs and agreements. She also thanked the PMO.
- 11.5 Mr. Zhu thanked all participants especially ROK participants and DPRK observers and UN representatives. He congratulated PMO on their efficient organisation and hard work, Mr Zhu also thanked the Chairperson and the local host, represented by Mr Yuanzhang CHEN, for their excellent arrangements.
- 11.6 Mr Jiang on behalf of Mr Zhang, the Director General of SOA International Co-operation, apologised for not being able to attend the meeting due to a high fever, he thanked the South Sea branch of SOA for hosting the event, especially the help of Mr Chen and wished everyone a safe trip home.
- 11.7 The Chairperson declared the conclusion of the meeting. The meeting was closed at 16.30 pm on 30<sup>th</sup> November 2007.



## Annex I

### List of Participants

#### PARTICIPANTS OF THE MEETING

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UNDP/GEF/YS/ PSC.4/2	Provisional Annotated Agenda
UNDP/GEF/YS/ PSC.4/3	Report of the Meeting ( <i>to be prepared at the meeting</i> )
UNDP/GEF/YS/ RSP.4/4	Project Manager's Report on 2007 Project Implementation
UNDP/GEF/YS/ RSP.4/3	Report of the "Fourth Regional Scientific and Technical Panel Meeting"
UNDP/GEF/YS/ RSP.4/10	DPRK's Involvement in the Project
UNDP/GEF/YS/ RSP.4/11	Proposed Budget for 2008 and Onwards
UNDP/GEF/YS/ RSP.4/12	Proposed Workplan for 2008

#### Information Documents

UNDP/GEF/YS/ PSC.4/inf.1.rev	Provisional List of Documents
UNDP/GEF/YS/ PSC.4/inf.2.rev	Provisional List of Participants
UNDP/GEF/YS/ PSC.4/inf.3	Provisional Working Programme for the Meeting
UNDP/GEF/YS/ RSP.3/3	Report of the "Third Regional Scientific and Technical Panel Meeting"
UNDP/GEF/YS/PSC.3/3	Report of the "Third Project Steering Committee Meeting for the UNDP/GEF Yellow Sea Project"
UNDP/GEF/YS/SPSC.1/3	Report of the "First Special Project Steering Committee Meeting for the UNDP/GEF Yellow Sea Project"
UNDP/GEF/YS/JC.1/3	Report of "First Technical Meeting for the Co-operative Study Cruises In the Yellow Sea Marine Basin for the UNDP/GEF Yellow Sea Project"
UNDP/GEF/YS/JC.2/3	Report of "Second Technical Meeting for the Co-operative Study Cruises In the Yellow Sea Marine Basin for the UNDP/GEF Yellow Sea Project"
UNDP/GEF/YS/JC.3/3	Report of "Third Technical Meeting for the Co-operative Study Cruises In the Yellow Sea Marine Basin for the UNDP/GEF Yellow Sea Project"

UNDP/GEF/YS/MTE	Mid-term Evaluation Report
UNDP/GEF/YS/RWG-B.4/3	Report of "Fourth Meeting of the Regional Working Group for the Biodiversity Component"
UNDP/GEF/YS/RWG-E.4/3	Report of "Fourth Meeting of the Regional Working Group for the Ecosystem Component"
UNDP/GEF/YS/RWG-F.4/3	Report of "Fourth Meeting of the Regional Working Group for the Fisheries Component"
UNDP/GEF/YS/RWG-I.4/3	Report of "Fourth Meeting of the Regional Working Group for the Investment Component"
UNDP/GEF/YS/RWG-P.4/3	Report of "Fourth Meeting of the Regional Working Group for the Pollution Component"

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- 4.5 Financial Report

#### **5. REPORT FROM THE CHAIRPERSON OF THE RSTP ON THE OUTCOMES OF THE 4<sup>TH</sup> MEETING OF THE REGIONAL SCIENTIFIC AND TECHNICAL PANEL (RSTP)**

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- 5.3 Regional GIS and meta databases
- 5.4 Preparation of the Strategic Action Programme
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### **Project Manager's Report on Project Implementation during 2007**



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<a href="#">Appendix IV</a>	List of Acronyms

## 1 INTRODUCTION

1. The Implementation of the UNDP/GEF Project on “Reducing Environmental Stress in the Yellow Sea Large Marine Ecosystem (YSLME)” since the last Regional Scientific and Technical Panel (RSTP) and the Project Steering Committee (PSC) has been smooth and successful, according to the workplan approved by the PSC at its Third Meeting (Jeju Island, Republic of Korea, 20-22 November 2006).
2. The Transboundary Diagnostic Analysis (TDA) (Fig. 1) has been finalised and published as a major project outcome, which provided updated scientific and social economic information of the Yellow Sea ecosystem. The preparation of the Strategic Action Programme (SAP) has been initiated, and the regional targets for the management actions have been identified through the SAP *Ad-hoc* Working Group and the Regional Working Groups. Management actions have also been identified, including the technical, institutional and legislative actions. Through the Yellow Sea Partnership (YSP) framework and implementation of the public awareness and communication strategy, co-operation and co-ordination with other organisations and projects show encouraging progress with substantive financial support generated during the inter-sessional period. With identification of the regional targets and management actions, the preparation of the National Strategic Action Plans (NSAP) have also been initiated.
3. The achievements of the project have been recognised by a wide range of stakeholders and other organisations and projects during the Fourth GEF International Water Conference and the Second Global Large Marine Ecosystem Conference. With the successful implementation and recognition of the major achievements, it was recommended that a Yellow Sea Commission should be established with the major task to implement the SAP, which requires financial support from GEF for the project’s second phase. After 5 years initials implementation, the Commission would be self-sustainable with financial support from the participating countries.
4. Involvement of Democratic People’s Republic of Korea (DPRK) is still under negotiation. Following receipt of official endorsement from DPRK, the formal involvement of DPRK depends on the formal acceptance of the current participating countries, and the recommencement of UNDP operations there. Some activities have been discussed and planned using funding from other sources.

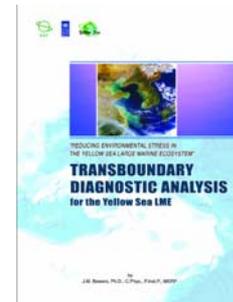


Figure 1. The cover of the TDA.

## 2 MAJOR ACHIEVEMENTS SINCE THE LAST MEETING

5. As with previous years, there were many outputs and outcomes produced by the project in 2007, ranging from technical activities to capacity building and regional collaboration. The major achievements realised by the project are described in the following sections, and a list of meetings, activities, and events convened under the auspices of the project in 2007 is attached as [Appendix 1](#).

## 2.1 Finalisation and Publication of the Transboundary Diagnostic Analysis

6. Following the discussion and approval from the last RSTP and PSC meetings, the TDA has been finalised and published. The TDA collected relevant data and information about the Yellow Sea which contributed to:
  - (i) Identification of the regional environmental problems in the Yellow Sea with agreed regional formats and expected contributions from the participating countries;
  - (ii) Identification of the priority environmental problems using regionally agreed criteria and processes;
  - (iii) Analysis of the transboundary nature of the environmental problems following the internationally accepted guidelines and processes;
  - (iv) Identification of causes of the environmental problems with carefully designed and implemented procedures; and
  - (v) Suggestions for potential management actions to address the root causes of the environment problems.
7. The TDA was distributed widely to all stakeholders and other international and regional projects, and received compliments from the readers. The TDA provided the scientific basis for preparing the SAP.

## 2.2 Discussion and Agreement on Regional Targets and Management Actions for the Strategic Action Programme

8. The Project organised three preparatory meetings in 2007 for SAP development: Consultation Meeting and two *Ad-hoc* Working Group Meetings. The Consultation Meeting prepared the “Conceptual Procedure” which describes the objective and central theme of the Project’s SAP, the procedure and mechanism of preparing the SAP, and the timelines and responsible parties to prepare the SAP. The First and Second *Ad-hoc* Working Group Meetings identified “Regional Targets” (Fig. 2) (also known as Ecosystem Quality Objectives) and “Management Actions,” respectively. By definition, the Regional Targets are “the ecological state that is aimed for by the year 2020” (Document UNDP/GEF/YS/AWG.2/2, Annex 2), while the Management Actions aim to achieve those targets.
9. A draft structure of the SAP which includes discussions of the Regional Targets and Management Actions was presented to the First *Ad-hoc* Meeting. The Second *Ad-hoc* Meeting prepared guidelines for demonstration activities and for two components of feasibility studies (i.e. cost-benefit analysis [CBA], political and social acceptance analysis [PSA]). The second Meeting also established an SAP drafting group

Figure 2. Reduction of fishing boats in China by 30% is one of the regional targets the SAP will address.

consisting of five members: three natural scientists, one social scientist, and the Project Manager.

10. A Call for Proposals for demonstration activities will be advertised in early 2008. An external review panel will evaluate proposals and decide which ones to fund. The implementation of selected proposed demonstration activities is expected to start in September 2008 and end in December 2009.
11. The RWG meetings organised after the above three preparatory meetings, reviewed and finalised both the Regional Targets and Management Actions. The RWG meetings of natural science components assessed technical feasibility of the proposed Actions, while the RWG-I Component prepared implementation plans of the CBA and PSA. The RWG-I also prepared guidelines for preparing NSAPs and for conducting CBA of Management Actions.
12. In summary, the Project produced the following outputs in 2007 to develop SAP and NSAPs:
  - Conceptual Procedure finalised;
  - Regional Targets identified;
  - Management Actions identified;
  - SAP Structure drafted;
  - Guidelines for demonstration activities prepared;
  - SAP Drafting Group established;
  - Call for Proposals for Demonstration Activities prepared;
  - Technical Feasibility Study of Proposed Management Actions conducted;
  - Implementation Plans of the CBA and PSA prepared;
  - Guidelines for NSAPs development prepared; and
  - Guidelines for CBA prepared.
13. Meetings of the SAP Drafting Group are scheduled three times in 2008 (January, March, and May 2008). Special RSTP and PSC Meetings will be convened in April 2008 to review the final draft of the SAP. The Yellow Sea Project aims to obtain an endorsement of the SAP in the second half of the year 2008 from the governments of China and ROK.

### **2.3 Regional Co-operation in Data Information Sharing – Ocean Colour**

14. The RWG-E has been implementing an activity on developing/refining a regional ocean colour algorithm for the Yellow Sea. This activity was initiated because such an algorithm was needed in the region that can be used for better assessment and future monitoring of primary productivity in the Yellow Sea.
15. The activity has been contracted to Tohoku University to co-ordinate relevant activities in the region. Thus far, 2 of 3 planned workshops have been convened to advance the activity. The “First YSLME Ocean Color Workshop” (YOC-1) was held on 4<sup>th</sup> June 2007 in Ansan, ROK. Scientists from China, ROK, and Japan gathered to examine available data to formulate or refine ocean colour algorithms for Yellow Sea turbid waters. Participants gave presentations showing the available data, existing OC algorithms, current problems, and future directions. A working strategy was developed, where the currently scattered *in-situ* data sets would be merged and stored in a data server hosted by the PMO. These data are available for the scientists to download for validation of *in-situ* algorithm.

16. The YSLME PMO established an *in-situ* data sever which will be used exclusively by the Ocean Colour group members.
17. Considering the characteristics of OC remote sensing and reliability of the *in-situ* parameters taken together with *in-situ* optical measurements, the OC algorithms for retrieval of chl-a, TSS, and CDOM was examined first. At a later stage of the activity, the OC atmospheric correction algorithm would be considered. After the first workshop, the contractor produced a map showing all the contributed data as shown in Figure 3, which covers a wide area of the Yellow Sea, as well as parts of the East China Sea.

18. The “Second YSLME Ocean Color Workshop” (YOC-II) was held from 1<sup>st</sup> to 2<sup>nd</sup> September 2007 at Nagasaki University, Japan. Following the YOC-I Workshop, scientists from China, Republic of Korea, and Japan gathered to examine the progress of data analysis, working towards the validation and refinement of a regional ocean colour algorithm for Yellow Sea turbid waters. The YSLME Project presented the common dataset where bio-optical data contributed by the scientists are stored in one common data server and accessible by all members of the YOC group. The database was reviewed and additional

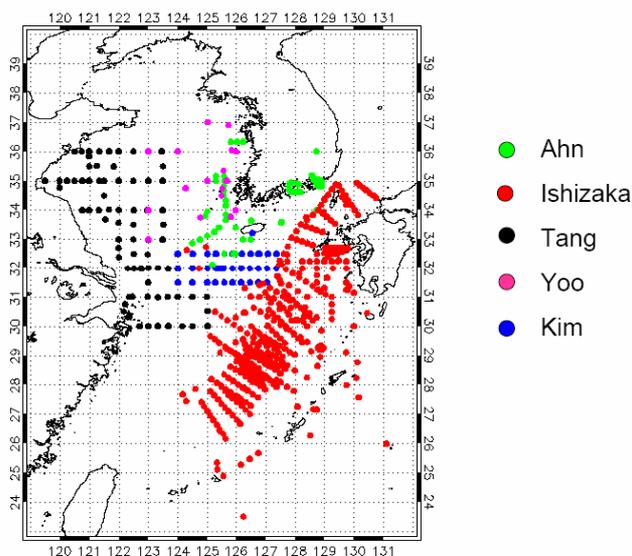


Figure 3. Location of data points contributed by OC activity members.

- variables were agreed to be added (coloured dissolved organic matter at different wavelengths, temperature and salinity). It was also discovered that some data were inconsistent for the same variables due to differences in sampling/analytical methods. Finally, scientists were tasked to contribute more data for the previously agreed variables.

19. Regional collaborative efforts in ocean colour algorithm development are gradually expanding. In addition to the “core members” of this activity, there has been some progress to examine how to include other regional experts into this activity. The final workshop will include participation by other ocean colour scientists in the region, and the workshop will spend some time to investigate how other OC projects can be incorporated to improve the regional algorithm.
20. This activity not only contributes to the development of regional co-operation in developing regional algorithm, but also shows the co-operative spirit of the participating countries in data and information sharing to achieve a common goal. The agreement from the second workshop to share additional data shows that this kind of regional co-operation will ultimately produce a product that can be used by scientists working in the same field, and also scientists working in related issues (see also Section 3 for Ecosystem Component’s implementation).

## **2.4 Public Awareness and Participation Through Effective Co-operation in the Yellow Sea Partnership**

21. The Project implemented a number of public awareness activities in 2007, according to the "Public Awareness and Communication Strategy" that was discussed and agreed by the First YSP Workshop (Beijing, China, 15-16 March 2006). Targeting a wide range of stakeholders from decision-makers to school children, the activities included organising a conference and a training workshop; providing lectures, hands-on activities, and site visit opportunities; and granting small-scale financial assistance. Specifically, the following activities were conducted to raise the awareness of environmental issues in the Yellow Sea
- Yellow Sea Partnership, including YSP Session at EAS Congress;
  - Youth Programme;
  - Local Government Training;
  - Regional Conference (Follow-up Meeting of Parliamentary Conference);
  - Voluntary Internship Programme;
  - Full-time Internship Programme; and
  - Small Grants Programme.
22. For more information about each activity, see Section 3.5 in this report. The activities, co-ordinated under the YSP, are expected both to invite more stakeholder participation in the Project and to strengthen the understanding and capacity of various sectors of society to initiate marine conservation efforts. Co-operation through the YSP would enable the Project to reach out to stakeholders effectively and efficiently so as to secure their support for future Project implementation. A broad and strong support obtained through the YSP's public awareness activities will help in endorsing the SAP.

## **2.5 Discussion on the Project's Second Phase - Implementing the Strategic Action Programme**

23. During the Fourth GEF International Waters Conference, a meeting was organised with relevant officers from the GEF Secretariat, UNDP/GEF Unit and UNDP/GEF Regional Co-ordinating Office to report on YSLME's progress and explore the possibility for a second phase to implement the YSLME SAP. The following elements were reported:
- (i) TDA has been finalised with several new findings in the Yellow Sea. The causal chain analysis identified major problems and causes of the problems. The major problems are within the GEF's new priority areas, such as enrichment of nutrients, biodiversity conservation, etc.
  - (ii) The SAP *Ad-hoc* Working Group identified tangible management targets for SAP, with some management actions falling within national plans and policies, e.g. reduction of 30% of fishing boats, and reduction of 10% nutrient discharge every 5 years in China; and no new reclamation projects in Republic of Korea will be approved. Most of these tangible targets are approved by the governments, with clearly defined actions and budgets.
  - (iii) The necessity of GEF involvement in the implementation of YSLME SAP, the second phase of the project, and associated co-financing from the participating governments.

- (iv) Proposed mechanism for implementation of SAP, e.g. establishment of a YSLME Commission, which would be a non-legal binding mechanism.
24. GEF Secretariat and UNDP/GEF expressed their satisfaction with the implementation of the project so far. Discussion was held on how to finance the second phase of the YSLME project. As the GEF4 funding will terminate at the end of 2009, and GEF5 funding will start in 2010, the timeframe for Phase 2 implementation matches perfectly with GEF's funding cycle. There was a positive response that during the GEF5 funding, GEF will support the 2<sup>nd</sup> phase of the YSLME project, i.e. implementation of the SAP.

### 3 PROJECT IMPLEMENTATION

#### 3.1 Publication of Data Reports, Regional Syntheses and Governance Analyses

25. The national data and information collection, regional data syntheses, and national governance analyses reports were finalised in 2006. Editors were hired to edit these reports, and the PMO prepared them for printing. The data and syntheses reports were published in 3 separate volumes: 1) Vol. 1 - China National Report; 2) Vol. 2 - Republic of Korea National Report; 3) Vol. 3 - Regional Syntheses (Fig. 4). The governance analyses will be published as Volume 4 once the Regional Governance Analysis is finalised.

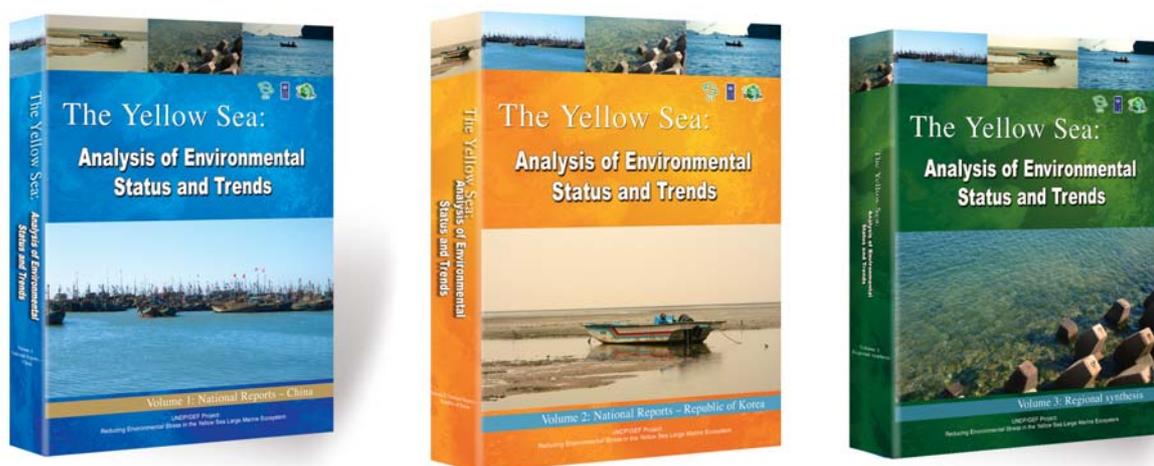


Figure 4. Draft of data reports and regional syntheses book covers.

#### 3.2 Fourth Round of RWG Meetings

26. The fourth round of RWG meetings was held during September to November 2007. In all meetings, the members reviewed and finalised the SAP regional targets and management actions. Technical feasibility studies were carried out by the natural science components, while RWG-I considered how to carry out cost-benefit analysis of management actions, and political and social acceptance analyses of the SAP itself. The RWGs also suggested some demonstration activities to implement to test the effectiveness and benefits of the management actions. The details of each RWG meeting and respective component's activities during the year will be reported

by the Chairpersons of each group. These documents are also available as Working Document UNDP/GEF/YS/RSP.4/6a-e.

### 3.3 Fisheries Component

#### 3.3.1 Report on stock assessment methodology

27. Following comments from the 3<sup>rd</sup> RWG-F Meeting, the report on stock assessment methodology was modified as agreed, and finalized. The report includes: i) A comprehensive report on current methods of assessing fisheries stocks; ii) A list of the sources of data and information collected throughout the report; iii) A list of major issues and priorities that need to be addressed in the Yellow Sea region; and iv) Recommendations for stock assessment in the Yellow Sea Large Marine Ecosystem.
28. The report highlights the major problems in Yellow Sea stock assessment, which are:
  - a. The lack of agreed methods such as those used by ICES;
  - b. The availability of data at a regional level is limited, including insufficient fisheries data and survey data;
  - c. The different coverage, targeted species, methods and gear used in surveys result in incomparable results preventing effective stock assessment; and
  - d. The different standards in catch statistics.
29. The report recommends a number of steps for overcoming these problems:

First step is to establish several scientific working groups (WG), such as

  - Fisheries data WG, responsible for: collection of fisheries data; data standardization, etc.
  - Survey methods WG, responsible for: comparison of survey methods used by the different countries; calibration to ensure consistent survey methods are used to estimate the biomass of stocks; development of better observation tools and survey strategies.
  - Fisheries biology WG responsible for; collection of fisheries biology data; data standardization; biological characteristics of major species, e.g. growth, mortality, migration and distribution, spawning, feeding, wintering, etc.
  - Stock assessment WG responsible for: selecting adequate mathematical models for the fish stocks in the Yellow Sea ecosystem; prediction of stock size of commercially important species; providing sound estimates of allowable biological catch (ABC) and total allowable catch (TAC) for fisheries management.

Second step is to establish a mechanism to exchange survey data and fisheries data.

Third step is to establish a joint survey mechanism based on analysis all the historical individual surveys performed by countries from the working groups.

#### 3.3.2 Sustainable mariculture symposium

30. The Sustainable Mariculture Symposium/Workshop was hosted by the West Sea Mariculture Research Center, Taean, Republic of Korea on 18-19<sup>th</sup> June 2007.
31. During the symposium, scientists, mariculture farmers and policy makers listened to talks during two sessions:

- “Aquaculture technologies for reducing environmental stress” covering polyculture experiences in ROK and China, fish culture seawater recirculation systems and open sea/deep sea cage culture (Fig. 5).



Figure 5. Off-shore mariculture, presented by Dr. Lee Jung Uie at the symposium.

- “Best management practices for aquaculture” covering heterotrophic pond culture of shrimp, artificial food chain construction in pond culture, sustainable cage culture and advances in shellfish culture.

32. During the workshop, experts gave short presentations followed by extensive discussions on the major obstacles to increase sustainability in mariculture in the Yellow Sea. Previously mentioned topics were revisited, and in addition, further presentations on best management practices for feeds and feeding and how mariculture scientists can contribute to the preparation of the SAP for were given. Experts discussed the challenges faced by the industry and how these problems had been addressed on both sides of the Yellow Sea. The outcomes of the discussion are all available online as the workshop report.

### 3.3.3 Determination of carrying capacity for mariculture

33. A workshop was held in Rongcheng City hosted by the Yellow Seas Fisheries Research Institute with the aim of exchanging modelling methodologies of carrying capacity estimation, and suggesting regional activities to determine the carrying capacity for mariculture.
34. Mariculture scientists from China and ROK defined “Carrying Capacity” as the maximum productivity and maximum economic benefit. This method balances the nutrient budgets and primary productivity to set appropriate densities and diversity of culture species. The framework and methods presented at the workshop will be a useful management tool for the planning of mariculture and could be employed as a demonstration activity of the Project’s SAP management actions.
35. The workshop reviewed progress on development of carrying capacity models for mariculture (Fig. 6). To facilitate understanding, simple carrying capacity models on single trophic level culture such as bivalve mariculture, macro-algae mariculture, and finfish mariculture were presented and the parameters and reliability explained. Multi-species carrying capacity models were also presented. Detailed discussions followed, comparing the models used and parameters required, resulting in a good exchange of ideas and suggestions for improvement.

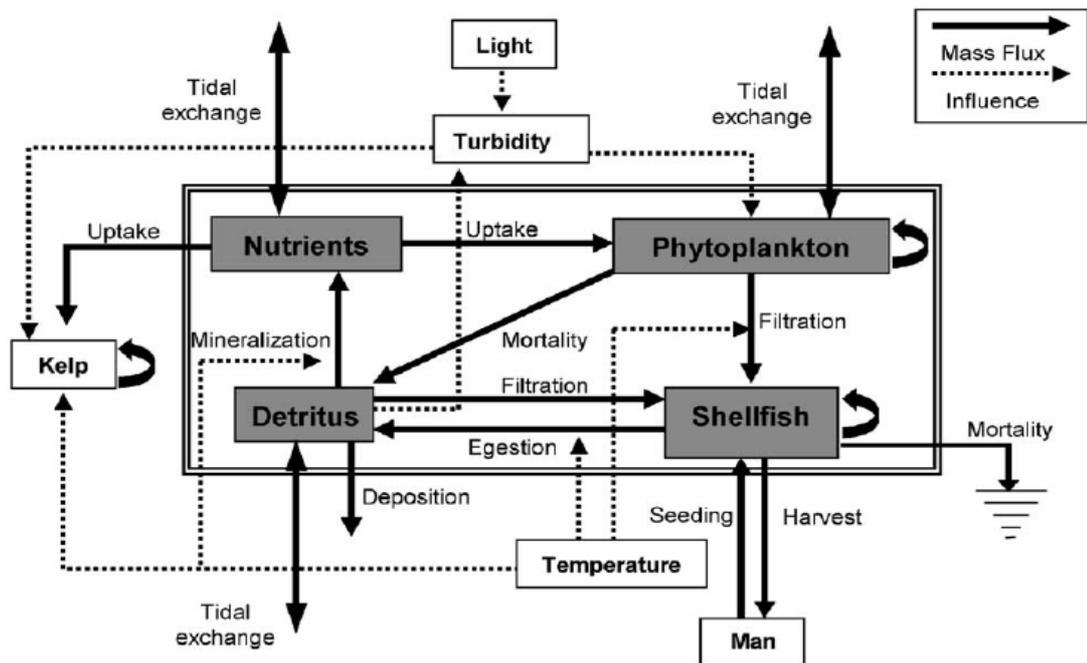


Figure 6. Conceptual diagram of the mariculture carrying capacity model from Sungo Bay, Shandong Province (from Nunes et al, 2003).

36. The workshop report outlines the various methodologies available for modelling carrying capacity and presents a model that may be useful in the estimation of carrying capacity for embayments around the Yellow Sea. It is a major step forward in assisting in reducing the environmental impact of mariculture.

### 3.3.4 Diagnosis and prevention of mariculture disease

37. The aim of the activity was to facilitate the exchange of information on the developments in mariculture disease diagnosis, prevention and control. A workshop was held in Jeju and hosted by Jeju National University on 16 - 17 October 2007.
38. Experts reported on the development of new methods for rapid diagnosis of mariculture disease and the identification of emerging diseases. Novel methods for the prevention and control of fish and shellfish disease were also reported including some promising work on the use of bacteriophages, selection of genetically disease resistant strains of culture organisms and probiotics.
39. Important discussions followed on the need for a regional early warning mechanism to prevent the outbreak of new diseases. Members agreed that the current system, where occurrence of notifiable diseases is reported four times a year to the Network of Aquaculture Centres in Asia-Pacific (NACA), was probably effective in preventing disease outbreaks. However, the list of notifiable diseases was thought to be too limited and may not include regionally important diseases and the reporting mechanism may be too slow. The participants agreed that a yearly regional disease workshop was needed to discuss developments in the identification, prevention and control of emerging diseases.

### 3.4 Biodiversity Component

#### 3.4.1 Gene pool

40. A workshop, in which twelve experts gave presentations on genetic diversity in the Yellow Sea, was held in Busan, Republic of Korea on 14-15<sup>th</sup> May 2007, hosted by the Project.
41. The various techniques used in genetic analysis were reviewed and the development of micro-satellite markers and DNA chip technology were highlighted as promising. Other topics included genetic diversity in microbes, differences in diversity between hatchery-raised and wild stocks of fish, shrimp and gastropods. This is particularly important as the greater the genetic diversity, the greater the evolutionary potential which may be especially important given the impacts from both climate change and pollution, and the greater the resistance to diseases. Moreover, the loss of locally adapted ecotypes can impact on the productivity of the system. Selective breeding can reduce genetic diversity as a result of genetic bottlenecks, this not only impacts on the fitness of cultured stocks, but also genetically similar escapees from culture facilities and restocking programs can impact on the diversity in wild populations through interbreeding.
42. The use of DNA barcoding and chip technology to separate morphologically similar species eg. skate species in the Yellow Sea where different species command different prices even though looking remarkably similar, was reported. Other important papers described the use of mitochondrial DNA for the separation of stocks. Fisheries management requires knowledge of the area used by each stock of commercial species in order to set exploitation levels that are sustainable.
43. One of the major problems facing cultured animals is the spread of disease; the identification of genes controlling disease response in scallops is a step towards the development of disease resistant stocks and prevention of the annual losses that occur currently (Fig. 7). Other researchers used *Amphioxus*, a possible ancestor of all chordates with a genome uncomplicated by extensive genetic duplication, in the study of the genetic control of development and disease response.

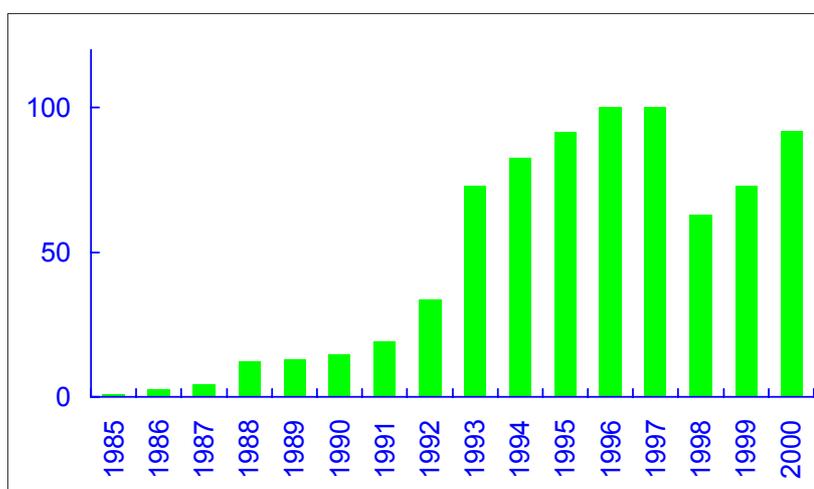


Figure 7. Reduction in scallop production (10<sup>5</sup> tonnes) in China in 1998 caused by disease (presented by Song Lincheng at the Gene Pool Workshop).

44. The threats to genetic biodiversity and the conservation measures necessary to preserve genetic diversity in the Yellow Sea were discussed during the final day. The main threats that specifically affect genetic diversity come from aquaculture escapees and restocking practices, where selective breeding and limited brood stock numbers result in reduced genetic diversity that is then passed onto the wild population. Other threats that also affect biodiversity generally (species, habitat and genetic diversity) come from pollution, over-harvesting and fishing, introduction of non-indigenous species and loss of habitat from reclamation and destructive fishing practices. Thus, for management, species and genetic diversity can be considered together as the threats and conservation measures required to preserve diversity are the same, with the exception of the threat from aquaculture.
45. As the study of genetic diversity is relatively new and development of micro-satellite markers is expensive, there is insufficient data to measure changes in genetic diversity in wild stocks in the Yellow Sea, with the possible exception of the fleshy shrimp. Lastly, the participants agreed that the study of genetic diversity could be aided by the compilation of a list of links to genetic data bases around the Yellow Sea that were not included in the more common genetic databases such as that hosted by the IUCN. The PMO is compiling a list of websites sent in by participants and will construct a webpage that will be distributed to the participants' institutions. This will also be available on the project website.

### **3.5 Ecosystem Component**

#### **3.5.1 Ocean colour algorithm development**

46. As already mentioned in Section 2.3, this activity was initiated in 2007, with 2 workshops already convened in ROK and Japan to first examine the available data, then to start improving on existing algorithms, or developing a new regional one. Validation of some algorithms was discussed. At the time of preparing this report, activity members had agreed to contribute more data so that the validation of algorithms could be more robust.
47. A third and final workshop will be held in January 2008, where the final product will be delivered. Additional participant(s) from China who are also working in ocean colour, but who are not part of the core members, are planning to attend, to examine how this activity might expand its collaboration to include other relevant scientists and research groups. This is yet another example of the success of this activity both in the technical context, as well as for regional co-operation.

#### **3.5.2 Primary productivity estimation**

48. This activity has just gotten underway, and aims to provide basin-scale estimation of primary production as a potential baseline figure, and develop a regional algorithm for long-term monitoring. The results will be useful for higher trophic level productivity estimation and also identify areas that management could target to maintain acceptable productivity levels. An FRRF is being manufactured, and will be used for *in-situ* measurements in 2008. The proposed outputs of the activity include monthly and annual primary productivity maps and inter-annual variability of primary productivity in the Yellow Sea.

### 3.5.3 CPR survey

49. A plankton survey was carried out by FIO in April 2006, using the CPR, with a final report showing data on temperature, salinity, DO, pH, fluorescence, and phytoplankton & zooplankton abundance. The fronts for some oceanographic variables was observed. The results of this activity were reported at the 4<sup>th</sup> RWG-E Meeting where members agree that further surveys were needed, and perhaps can be carried out during the co-operative cruise. Some results from the survey are shown in Figures 8-10, which were borrowed from the activity report.

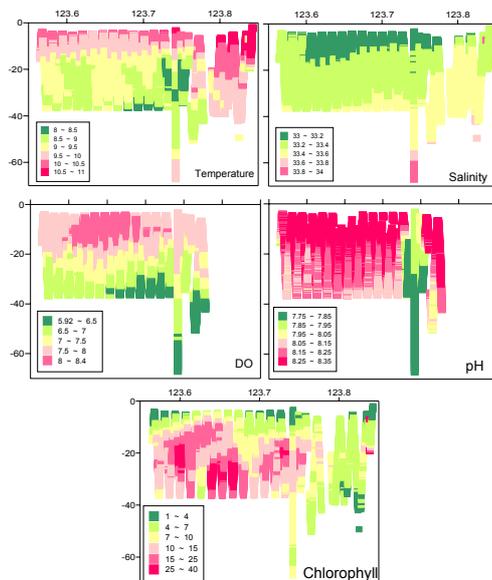


Figure 8. Temperature (°C), salinity (psu), DO (mg/L), pH, and Chlorophyll-a concentration (µg/L) in Transect 1 of the Nv-shuttle cruise in the central southern Yellow Sea in 2007.

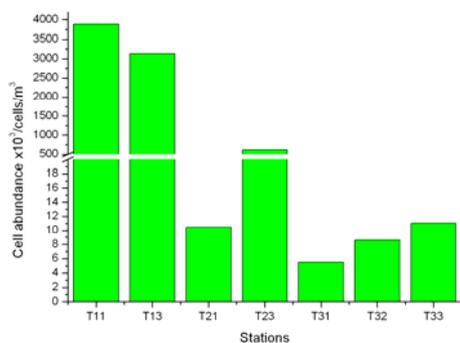


Figure 9. Phytoplankton abundance in the seven stations during the Nv-shuttle cruise in the central southern Yellow Sea in Spring.

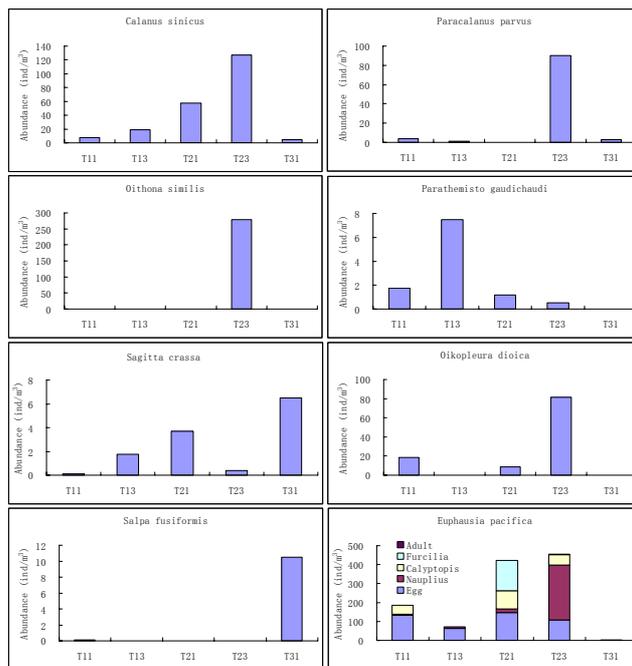


Figure 10. Abundance of dominant zooplankton species at the sampling stations during the Nv-shuttle survey in the central southern Yellow Sea in spring, 2007.

### 3.6 Pollution Component

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

50. The second round for “Nutrients in Seawater Inter-calibration” activity was completed. The same four labs from China and three labs from ROK that participated in Round 1, continued with the activity by analyzing nutrient concentration of certified reference materials (ammonia, filterable reactive phosphorus, nitrate, nitrite, silicates) obtained from a lab in Australia contracted to implement the activity. The Queensland Health Scientific Services, Australia, co-ordinated the activity on behalf of the Yellow Sea Project, by supplying the reference materials to each lab, collecting and analysing the results, and preparing the final reports containing the summary results and recommendations for future improvement. Similar to Round 1 carried out in 2006, the results from Round 2 also were very good, with a high acceptance rate of the results, with nearly all labs meeting the acceptable level for all nutrients.
51. Inter-calibration exercises for metals and organic compounds in sediment and biota started in 2007 with participation by 4 labs in China for both metals and organics analyses, 4 labs from ROK for each metals and organics analyses. The IAEA-MEL co-ordinated the activity, by supplying the reference materials to each lab, and collecting and analysing the results. Full results of these exercises will be available in December 2007. However, preliminary data submitted from a few labs showed that the results are very good, with most labs achieving the acceptance levels.
52. Although the results were good, participating labs still had some minor problems, and would like to improve their capacity in these chemical analyses (Fig. 11). Further inter-calibration activities are planned for 2008.

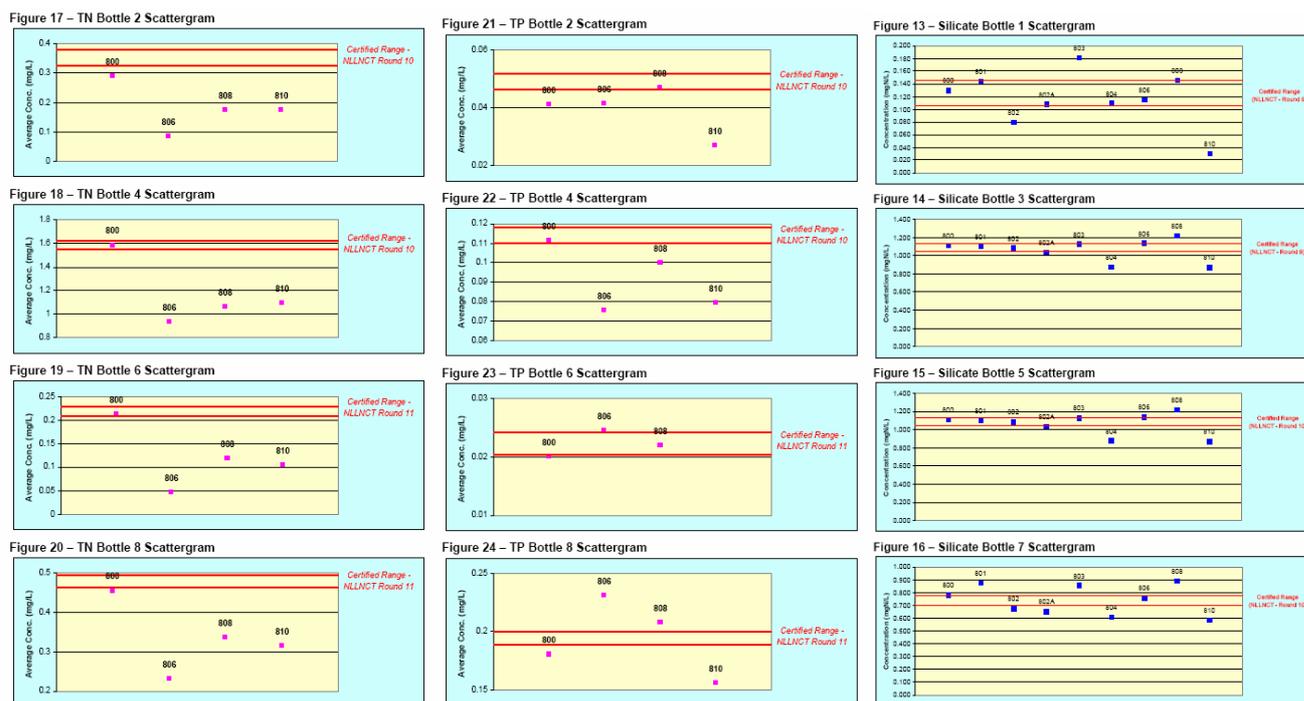


Figure 11. Results showed the necessity for further inter-calibration exercises. Results for analysis of TN (left), TP, (middle) and silicate (right).

### 3.6.2 Inter-calibration summary workshop

53. An inter-calibration summary workshop was held from 8-10 October 2007 in Jeju (Fig, 12). The objectives of the workshop were to:
  - Review and summarise the two nutrient inter-calibration exercises organised by YSLME and QHSS.
  - Review results-to-date for metals & organics inter-calibration exercise.
  - Assess the degree of comparability of the results obtained by the participating labs.
  - Exchange experiences on and lessons learned from problems related to analytical chemistry, and to apply lessons learned to future work.
54. Participants presented their results, SOPs, QA/QC methods, problems encountered, and exchanged ideas on improving analytical skills, such as methods for validating data, precision data, repeatability, reproducibility, bias, and uncertainty. The coordinators for the exercises participated in the workshop to make recommendations to participants on improving analytical skills, and obtain information from participants on technical and capacity gaps in their laboratories.
55. Participants requested the PMO to consider hosting another summary workshop in late 2008/early 2009 to review results of the next rounds of the exercise.



Figure 12. Participants of Inter-calibration Summary Workshop.

### 3.7 Investment Component

#### 3.7.1 Yellow Sea Partnership, including YSP Session at EAS Congress

56. One of the highlights of the YSP activities was the “Yellow Sea Partnership for Enhanced Public Awareness and Participation” session which was organised in the East Asian Sea Congress, Haikou, China, 12-16 December 2006. This event focused on how public awareness and participation activities undertaken through the joint efforts of partners can reach out to a wider stakeholdership. The session shared experiences of the various partner’s public awareness activities, and also how to improve the function of the partnership for the benefit of the entire Yellow Sea region.
57. Another highlight was the second YSP Workshop, hosted by NOWPAP that was organised in Busan, ROK, 1<sup>st</sup> October 2007. The meeting reviewed the completed and on-going co-operative activities, discussed co-operative activities from 2007 and onwards, and discussed the management mechanism of the YSP. The Project assisted NOWPAP in organising this annual meeting by providing ideas on meeting agenda, joint activities, and administrative mechanism. All the partners attended the workshop with their own budget.
58. The Workshop agreed to exchange further information for joint activities in 2008, host regular meetings by rotation, and use both the YSP logo (Fig. 13) and each organisation’s logo on the organisation’s publications. The next Workshop will be held back-to-back with the meeting of Ramsar Convention in Changwon, ROK, from 28 October to 4 November 2008.
59. The Project conducted its public awareness activities, as mentioned below, in co-operation with YSP members and in line with the Strategy for Public Awareness and



Yellow Sea's Partnership

Figure 13. Draft YSP logo.

Communication. It should be noted that the co-operation between WWF and the Project under the YSP successfully resulted in the second phase of “WWF/KORDI/KEI Yellow Sea Eco-Region Planning Programme,” now called YSESP. The Project provided the WWF with ideas on the implementation structure of YSESP, the demonstration activities to protect habitats in the Yellow Sea, and the small-scale grant programme. The two projects—YSLME and YSESP—will actively collaborate so as to produce maximum outputs from their activities. For example, the timing and sites of demonstration activities implemented under those two projects will be co-ordinated well in advance, and the data and information collected through the demonstrations will be mutually shared. As a result, both projects will make their activities more efficient and effective, eliminating unnecessary duplication. For more information about the co-operation with YSESP, see Section 7.3 in this report.

### 3.7.2 Youth Programme

60. Following the success of the Youth Programme in ROK, 2006, in co-operation with the Liaoning Fisheries Research Institute, the Dandong Ocean & Fisheries Bureau, and the Liaoning Province Ocean & Fisheries Bureau, the Project organised the second Youth Programme in Dandong, China, from 11-12 August 2007 to provide youth in the region with opportunities to deepen their understanding of environmental issues in the Yellow Sea. About 50 students (aged 12-16) from Dandong #6 Middle School and their two teachers participated in this activity (Fig. 14).
61. The Programme consisted of two components: lecture session and hands-on activity session. In the first session, regional experts provided indoor lectures on the Yellow Sea’s ecosystem, and the second session, the participants conducted field activities of cleaning marine litter, releasing juvenile puffer fish stocks into the sea, and visiting the Donggang National Nature Reserve located in Yalu River estuary.
62. Amway International and Amway Dandong Office sponsored the hands-on activities and visit to the Donggang Nature Reserve. Over 30 Amway staff participated in the event, as they also wished to improve their understanding on marine environmental problems and potential solutions. This is a success story to involve the private sector into project activities.
63. China Central Television’s main station, CCTV-1, reported the event during the 7PM news, one of the main news broadcasts. China Ocean News also wrote an article about the event. Those news reports—the video clip and the newspaper article—are available online in the Project’s website at <http://www.yslme.org/>.



Figure 14. From left to right: Middle school student asking questions to lecturers during lecture session of Dandong Youth Programme; releasing juvenile puffer fish stocks; Amway employees and Project Manager getting ready to release puffer fish.

### 3.7.3 Involvement of local government

64. The “Second Training Workshop for Local Government Officers” was organised in Qingdao, China, from 10 to 12 July 2007 with the theme of “Marine Spatial Planning: How to Manage the Sea and Coast?” The workshop focused on the Marine Spatial Planning approach, and provided the participants with an opportunity to gain practical skills to address coastal development issues in a holistic manner, which might greatly affect the environment as well as society. Through lectures, case studies, and group discussions, the participants deepened their understanding about the processes and techniques of managing marine and coastal resources in order to not only secure their valuable ecosystem, but also promote sustainable use of the resources.
65. Eighteen local government officials from the Yellow Sea’s coastal provinces and cities: eight officials from China and ten officials from ROK attended the workshop. Scholars with expertise in marine functional zoning, coastal sea protection, and sea use management were invited as lecturers from prominent governmental and academic institutions in China.

### 3.7.4 Involvement of parliamentary organisations

66. As reported in the Project Manager’s Report during the third RSTP/PSC meeting (Jeju, ROK, 20-24 November 2006), the Parliamentary Conference, held in Qingdao, China, March 2006, received considerable attention from the international community because this meeting was the first event in GEF projects where the parliamentarians addressed transboundary environmental issues. GEF/IW:LEARN published a document about this activity, to disseminate the lessons learned from its implementation to a wide range of audiences (GEF/IW:LEARN [2006]. International Waters Experience Note, 1 [available at <http://www.iwlearn.net/>]).
67. Given the successful implementation of the Parliamentary Conference and the agreement made by its participants, the “Regional Conference on Protection of the Marine Environment and Sustainable Use of Marine Resources in the Yellow Sea” was organised as a follow-up meeting of the Parliamentary Conference in Incheon, ROK, 11-13 October 2007. With prominent regional scientists as well as representatives from national and municipal assemblies in China and ROK invited, the Regional Conference focused on socio-economic aspects of the Yellow Sea’s ecosystem, such as legislation, economy, and public awareness. The conference also explored the possibility and mechanism to secure continuous dialogue at the highest level of decision-making among the two participating countries and other relevant countries.

### 3.7.5 Voluntary Internship Programme

68. The Project and Yonsei University Graduate School of International Studies (GSIS) initiated the “Voluntary Internship Programme” in June 2007. The objective of the Programme is to allow graduate students to voluntarily engage in hands-on experiences in implementing international project activities. The Programme consists of three activities:
  - Introductory session on U.N. System and UNDP/GEF Yellow Sea Project;
  - Participation in Project’s international meetings and workshops; and
  - Summary and reporting session.

69. Through the Programme, it is expected that the participants develop a basic understanding of not only the managing marine ecosystem in a sustainable manner, but also the procedure of implementing U.N. environmental projects.
70. The first activity, the Introductory Session, was organised in the University's Seoul campus with the participation of 17 Yonsei students as well as officials from GSIS, UNDP-Seoul, and the Yellow Sea Project. For the second activity, the Yellow Sea Project invited graduate students to the "Regional Conference." While the students attended the Conference as observers, they greatly assisted in organising the meeting smoothly by providing administrative supports and translation services. After the Conference, the third activity was held, where the participating students gave presentations on lessons learned from the internship and on suggestions for improving both Project implementation and conservation activities in the Yellow Sea. The interns suggested facilitating more co-operation in the region, NGO and youth participation, and DPRK involvement in the Project activities. The interns also recommended strengthening the Voluntary Internship Programme to encourage more participation from university students in the Project.

### **3.7.6 Internship Programme**

71. To provide an opportunity for young government officers and young scientists to become intimately familiar with the operational procedures of United Nations' international projects, the Project invited two interns to this year's "Internship Programme." The interns were selected by National Project Co-ordinators. Stationed in the PMO, those interns assist in implementing various activities under the Project. For example, the interns help the Project Manager and Programme Officers organise international meetings, draft meeting documents, and review output reports from contracted work.
72. An intern with training in political science, invited from KORDI, currently serves his six-month internship in the PMO. Another intern from Ocean University of China, who has expertise in legal issues, is expected to start her internship in December 2007.

### **3.7.7 Small Grants Programme**

73. Out of six organisations funded by the Small Grants Programme in 2006, the following four organisations successfully completed their activities, while the other two contractors are currently preparing their final reports.
- Citizens' Institute for Environmental Studies, ROK, facilitated knowledge and information exchange among local residents in the area affected by large-scale reclamation and development.
  - Dalian Maritime University, China, mobilised university students to educate local communities on coastal and marine ecosystem.
  - Liaoning Ocean and Fishery Department, China, reached out to a number of local stakeholders, including school children, businessmen, and other residents by offering, for example, environmental education courses, business seminars, street-level educational campaigns, and drawing and essay contests.
  - Shihwa Lake Saver, ROK, trained school teachers to prepare environmental education courses at local schools, providing technical support for developing curriculum and educational materials (Fig. 15).



Figure 15. Training workshop for school teachers, organised by Shihwa Lake Saver, ROK.

74. The Project will publish a summary report of the Programme in early 2008, compiling the process and results of all the projects completed in 2007.
75. Following the successful implementation of the Small Grants Programme in 2006, the Project decided to fund six projects under the Programme in 2007. The proponents of six funded projects, selected from 14 submitted proposals by the External Review Panel, include university, local government, and local environmental NGO. Table 1 shows the projects funded under the Small Grants Programme in 2007.

Table 1. Projects awarded under the Small Grants Programme in 2007.

<u>Project Title</u>	<u>Organisation</u>
Capacity Building for Local Sea-Water Cultivation Proprietors in the Participation and Management of Marine Protected Areas around Yantai Region	Yantai University-Shandong
Fishermen's self monitoring of marine litter in Boryeong, W Korea	Korea Marine Rescue Center Corp.- Chungcheongnam-do
Promoting Civil Participation in Coastal Conservation Utilizing the Muan Tidal flat Center	Eco-Horizon Institute-Seoul
Enhancing the Ability of Local Stakeholders to Effectively Understand the Impacts and Technical Ways of Sustainable Mariculture in San Gou bay	Shandong Province-Rongcheng
Capacity Building of Local stakeholders of Ganghwa tidal-flat – Through Establishing	Korean Federation for Environmental Movement (KFEM)-Seoul

<u>Project Title</u>	<u>Organisation</u>
a Ganhwa Tidal-flat Community Action Network (GTCAN)	
Building the Partnership between Government Departments and Enterprise on Protecting the Marine Environment of Yalujiang River Estuary	Liaoning Ocean and Fishery Department

### 3.7.8 Data and information management

76. In 2006, the Project in co-operation with the China-Korea Joint Ocean Research Center (CKJORC), established the regional GIS and meta databases, located in the CKJORC, to facilitate the effective data and information management in the region. Entrusted by the Third RSTP Meeting, the Project contracted the CKJORC again in 2007 to assume the main responsibility of conducting the operation and maintenance of the regional GIS and meta databases, considering the Center's expertise and experience in this field.
77. The databases have been established in CKJORC, with linkages with relevant global, regional and national databases. The databases need to be improved in structure and formats, and enhancing system functions for easy inquiry and presentation of the data and information. With necessary arrangements and improvements made, the regional databases (equipped with spatial-information technologies to store, manage, and display multi-source and heterogeneous data and information) are expected to offer users a "one-stop shopping" service, enabling them to access enormous quantity of data at various regional data centres by providing data sharing functions such as metadata query, data query, and map-based query. The databases will provide, as much as possible, the relevant data and information regarding the Yellow Sea from relevant data sources.
78. The mirror sites of the databases should be located in ROK and PMO; the location in ROK will be decided after NPC for ROK finishes co-ordination and consultation with relevant agencies.

### 3.7.9 Guidelines for cost-benefit analysis of management actions

79. The PMO prepared guidelines for economic analysis of management actions, which explain how to value environmental quality and how to measure costs and benefits of the actions (Fig. 16). Specifically, the guidelines define the "value" of ecosystem in economic terms, explain the concept of "negative externality," and provide possible valuation techniques based on internationally recognised literature. The guidelines also outline a multiple-step procedure for cost-benefit analysis of the management actions, including net present value calculation and sensitivity analysis. A draft report of the Project's mid term evaluation mentioned that,

*"This is a first attempt to develop guidance for GEF projects to incorporate economic aspects into environmental decision-making, in particular for SAP development. . . . The Guidelines should not only help assess the economic impact of recommended*

*management actions for the Yellow Sea, but also serve as guidance for economic analyses in other GEF projects.”*

80. The guidelines will be used as a reference to assess, as case studies, the economic feasibility of some proposed management actions in the SAP. The guidelines will also be used for selected demonstration activities to check their efficiency and appropriateness.

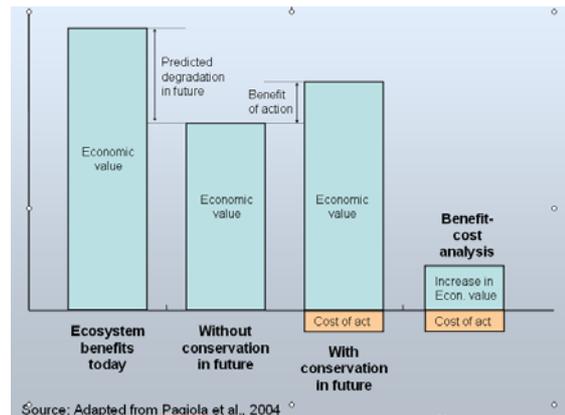


Figure 16. Cost-benefit analysis of management action.

### 3.7.10 Regional governance analysis

81. The Project conducted a Regional Governance Analysis in co-operation with the Center for International Law and Policy of Myongji University to understand the underlying root causes of the Yellow Sea’s ecosystem problems through analysis of the political environment and to provide the basic foundation for identifying possible future interventions as part of the preparative work for the development of the SAP.
82. The Analysis examined stakeholders, international co-operative mechanisms, legislative status in the participating countries, and institutional arrangements in the context of the Yellow Sea. Based on those examinations, the Analysis then recommended creating “a YS LME Commission as a central mechanism to address the [environmental] issues identified” in the Yellow Sea (Chung, 2007, Draft Report of Regional Governance Analysis, clause 188). The YSLME Commission, “a soft, non-legally binding, cooperation based institution” (ibid, clause 192), is expected to facilitate the SAP implementation and to secure a sustainability of conservation efforts in the Yellow Sea.”

### 3.7.11 National co-ordination and implementation

83. Project implementation at national level was carried out by the NPCs in each country. The NPCs nominated participants to workshops and meetings, and also attended some project activities. Details on national co-ordination and implementation can be found in the NPC’s reports (Document UNDP/GEF/YS/RSP.4/5a-b).

### 3.7.12 Report Writing Workshop for Environmental Practitioners

84. The Project organised the “Proposal and Report Writing Workshop for Environmental Practitioners: Keys to Effective Writing” in Ansan, ROK, 22-23 October 2007, to strengthen the capacity of government agencies and research organisations to prepare high-quality proposals and reports for securing the integrity and sustainability of environmentally-related research activities that the organisations implement. Eighteen professionals who deal with marine and coastal management participated in the Workshop: ten from China and eight from ROK. A professor from a university in USA was invited to serve as the workshop lecturer. The lecturer has expertise in freshwater and estuarine wetlands ecology and a proven track record of publishing dozens of peer-reviewed journal papers.

85. The workshop, consisting of lectures and hands-on exercises, covered how to write effective proposals, research papers, and abstracts. The lectures described tips for writing proposals, including proposal organisation, experimental design and statistics, and presentation of data (figures and tables). The hands-on exercises illustrated how to present data as figures and tables and how to organise and list references (in-text citations and bibliographic list). Tips for writing a research paper, including the structure of the paper, composing the abstract and use of SI units, were also covered. A writing exercise to compose abstracts for presentations, proposals and research papers was conducted as part of the hands-on exercises.

### 3.8 Cross Component Issues

#### 3.8.1 First Regional Science Conference

86. The “First Yellow Sea Regional Science Conference” was organised in Hangzhou (14-16 August 2007) in association with China Ocean News and State Oceanic Administration’s Second Institute of Oceanography. The conference consisted of presentations focusing on the current knowledge of the ecosystem’s provisioning, regulating, and cultural services. Oral presentations and posters explained the status of the services with respect to fisheries, mariculture, biodiversity, pollution, and overall ecosystem structure and function. The presentations also provided scientific information and suggestions on how to manage the Yellow Sea in order for the ecosystem to continue providing its services. Natural and social science topics were presented, such as educational issues and public awareness and participation. The conference allowed scientists to exchange knowledge, learn experiences from other regions, and obtain an update on Yellow Sea’s ecosystem status (Figs. 17-20).



Figure 17. Some presentation slides shown at the Science Conference. Left: jellyfish caught in fishing nets (Dr. Uye Shin-ichi), right: Activity index values for three major marine sectors and the HDI (“socioeconomic”) in comparison to the LME world average (Dr. Jin Di).

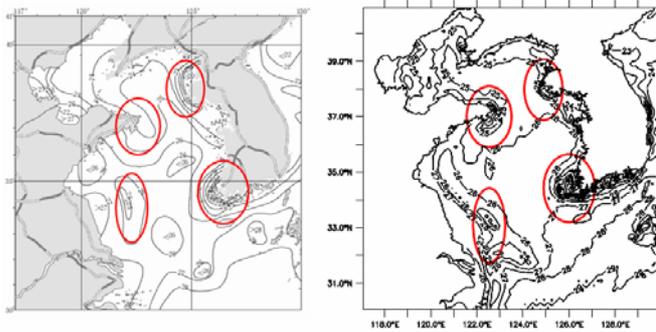


Figure 18. Observed (left) and Simulated SST (right) in August (presented by Dr. Qiao Fangli).

From Guo et al, 2004

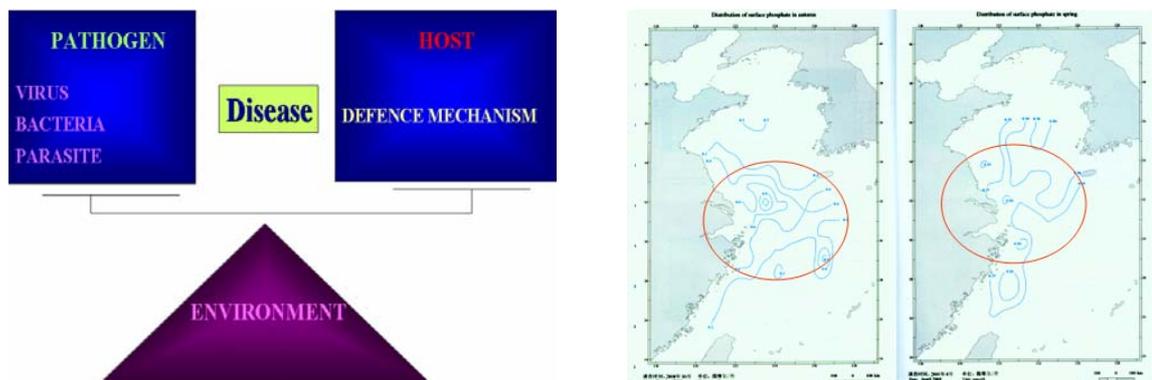


Figure 19. Left: Concept of mariculture disease control (Dr. Park Soo-il). Right: Distribution of phosphate in the surface seawater of the Yellow Sea (left: autumn 2000, right: spring 2001) (Dr. Kim Hak-Gyoon).

87. All together, there were 3 Keynote Speeches, 19 Invited Speakers, and 10 Contributing Speakers. The poster exhibition contained posters displayed by 10 groups of authors, including the PMO, local government officers, NGOs, and young scientists. The Question and Answer session and Discussion period on the oral presentations saw active participation from the audience in asking clarification, providing suggestions and general lively talks about the presentations.
88. During the conference summary given by the Chairperson of the Conference Organising Committee, participants were asked to contribute ideas for:
  - future directions in management of the physical, chemical and biological environments;
  - enhancement of cultural services; and
  - incorporation of legislative, political and institutional issues into management.
89. Some of these ideas were considered and incorporated by the SAP Ad-hoc Working Group as possible management actions to be included in the SAP.
90. The conference provided a forum for scientists from within and beyond the region to exchange views and information and to build up co-operation amongst each other.



Figure 20. Left: Opening ceremony of the Regional Science Conference. Right: Poster Session.

### 3.8.2 Exhibition of “Parliamentary Conference 2006” during the GEF IWC-4

91. At the GEF IWC-4 Conference in Cape Town, South Africa, 31 July – 3 August 2007, the Project organised an exhibition with the focus on the Parliamentary Conference. Displaying publications, newsletters, posters, and promotional items for raising public awareness, the Project’s exhibition booth attracted a number of visitors from around the world who attended the IWC-4 (Figs. 21-22). A short video depicting the Parliamentary Conference was shown in the booth and was introduced at this GEF meeting’s film show.



Figure 21. The project’s exhibition booth at IWC-4 about Parliament Conference and public awareness.

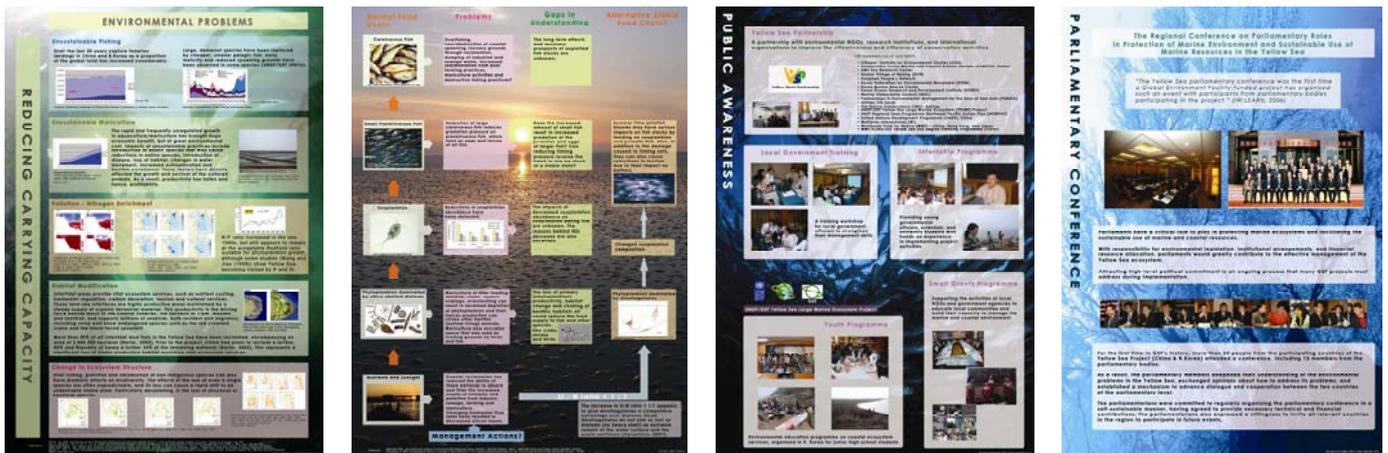


Figure 22. Four new posters developed by PMO.

### 3.9 Co-operative Cruises

92. Following the instruction from the last PSC meeting, the PMO continued to facilitate negotiation on the co-operative cruises. The Project Manager organised several individual discussions and negotiations with the governments and experts of the participating countries on this important issue. Several informal meetings were organised with participation of the relevant experts and governmental officers.
93. At the time this report was prepared, initial agreements had been reached, and had been submitted for the final approval of the participating governments, according to the relevant national regulations.
94. It is expected that the winter cruise would be organised from 5-25 January 2008. Upon receiving the final approval, a technical meeting will be organised prior to the cruise to discuss technical details.

### 3.10 Mid-Term Evaluation

95. As planned in the Project Document approved by the GEF Council, and the workplan approved by the PSC, a mid-term evaluation was implemented, guided by UNDP Office in Korea. Dr. Alan Fox and Dr. Ong Jin-Eong were assigned to carry out this task (Fig. 23).
96. The purpose of the Mid-Term Evaluation was to examine the performance of the project since the beginning of its implementation. The review included both the evaluation of the progress in project implementation, measured against planned outputs set forth in the Project Document in accordance with rational budget allocation, and the assessment of features related to the process involved in achieving those outputs, as well as the initial and potential impacts on the project.

*"The Mid-term Evaluation Report (MTE report) constituted the combined outcome of a literature review and evaluation mission, including a series of interviews of selected stakeholders from ROK and China carried out in August 2007. The evaluation was carried out on behalf of UNDP and UNOPS, the project's implementing and executing agencies, respectively.*

*A review of work plans and budget documents, coupled with interviews of stakeholders and the project team gave evidence that the YSLME project*

*management office (PMO) is well-managed and includes an experienced and effective project team. Appropriate financial and project management structures have been set in place based on GEF/UNDP/UNOPS guidelines. Expectations for a well-functioning Project Steering Committee (PSC) Regional Science and Technology Panel, and Regional Working Groups (RWGs) have been fulfilled. The PMO is working with an accomplished array of scientists and managers in key institutions in China and ROK.*

*The project has chalked up some notable achievements, in particular the completion and approval of the TDA, and successful efforts to engage parliamentarians from both countries. The project has also faced some setbacks, most notably an inability of the partner countries to agree on the scope of activities to be carried out during a planned cooperative cruise, even there are positive signs in the negotiation. At the halfway point, roughly 1/3 of the project budget has been utilised.*

*A great opportunity may be presented in the near future to expand the Yellow Sea partnership to include the Democratic People's Republic of Korea (DPRK). Within UNDP/GEF-approved parameters and timeframes, the project team and partner countries should make every effort to engage the DPRK as a full and active partner in the YSLME. The partner countries should also consider establishing a Yellow Sea Commission and Secretariat, to serve as the frame for future joint efforts and international support.”<sup>1</sup>*

97. The final report of Mid-Term evaluation is listed as one of the information documents for this meeting.



Figure 23. Left: Ong Jin-Eong, one of the mid-term evaluators, speaking to Yoo Sinjae and Uye Shin-ichi. Right: Alan Fox, another mid-term evaluator, engaging in discussion during the Science Conference.

### 3.11 Internal Auditing

98. In October, following the request from UNDP-Seoul Office, the PMO was audited by Deloitte Anjin LLC that was nominated by UNOPS headquarter as an internal auditor. The result of overall assessment was “Satisfactory” out of 3 categories which were satisfactory, partially satisfactory, and unsatisfactory. The audit area and scope were general organisation, treasury, fixed asset, purchasing, human resources & payroll, financial reporting, travel and other expenses for 2004 to September 2007.

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<sup>1</sup> Quoted from MTE Report.

99. The executive level observations were as follows: "In general, the operations and management of the Project Office are well controlled, with some control weaknesses/opportunities for improvement." There were some minor points for improvement stated in the report of the internal audit, mainly for purchasing goods. PMO agreed with those minor recommendations, and will soon implement some of the relevant recommendations.

#### **4 INVOLVEMENT OF DPR KOREA IN THE PROJECT**

100. During the last PSC meeting, this issue was discussed, and the meeting agreed that, "the PSC should welcome the participation of DPRK, and prepare for DPRK's participation in the Project by taking the opportunity of Mr. Li, NPC of China, and Mr. Jiang, Project Manager's, upcoming visit to DPRK." However, due to the fact that the operation of UNDP in DPRK was stopped in May 2007, it was not possible to continue the visit.
101. Efforts to involve DPRK in the project have continued. The Project Manager had a meeting with a DPRK government official in Dalian, China, on 10 August 2007. Following the exchange of views on the involvement of DPRK in the project, it was agreed that before a final decision is made by the PSC, some co-operative activities should be carried out under a bi-lateral framework, including:
- Collecting PCs and some analytical equipment to be used by the institutions of DPRK through a Chinese NGO;
  - Organising a marine pollution monitoring training in China funded by bilateral resources; and
  - Organising a training course on mariculture techniques in China funded by bilateral resources.
102. The implementation of these activities is currently being planned.

#### **5 FINANCIAL REPORT**

103. Since 2007's 3<sup>rd</sup> quarter, the project began using the Atlas system at the buyer level, which is the main ERP system of UNOPS headquarter to create and maintain POs on a quarterly basis. Access to Atlas helps maintain a higher level of accuracy for the figures in the BRIO report.
104. UNOPS decided to move another step forward in setting up the project with an Atlas account, such that PMO will manage many of its own transactions through to actual payment rather than just the PO. Right now, UNOPS is processing an Atlas account for the PMO.
105. Due to many of the transactions through Imprest being increased in value, the project's Imprest level of local currency was increased from U\$30,000 to U\$70,000 equivalent.
106. The expenditure report for 2007 is attached as [Appendix II](#).

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

### **6.1 Office & Facilities**

107. With thanks for the generous support from KORDI, the PMO office moved to Research Building #3 in the KORDI compound in June 2007. The new office is bigger and brighter than the previous one. PMO would like to express its appreciation to KORDI's continuous and generous support for the new office space. Some additional furniture was purchased based on the new office setup.
108. The PMO's physical address is as follows:

UNDP/GEF Yellow Sea Project  
Rm3113, KORDI, 1270, Sa2-Dong, Sangnok-Ku  
Ansan-Shi, Kyungki-Do, R.Korea (426-744)  
Tel: 82-31-400-7829  
Fax: 82-31-400-7826

109. The Inventory Report in [Appendix III](#) lists the PMO's assets.

### **6.2 Staff Recruitment and Intern Programme**

#### New PMO Staff

110. Mr. Mark Walton, new Environment Officer in charge of Fisheries and Biodiversity components, joined the project in January 2007 as successor to Mr. Jeff Archer who resigned from the project.
111. Mr. Walton holds a PhD in mangrove rehabilitation and fisheries productivity from the University of Wales, Bangor, UK. He has worked in fisheries management and aquaculture in Asia and Central America.

#### Internship Programme

112. Mr. Seong Hwan Pae and Ms. Wei Yan successfully completed their internship in 2006. This year, Mr. Yunil Kim joined the project on 1<sup>st</sup> October as the new intern from Republic of Korea. Ms. Yu Ming from China is expected to join the project in December 2007. The PMO is pleased to host 2 interns as planned, although there was some delay in the selection and arrival the interns. The interns will assist with organisation of at least one Regional Working Group Meeting and enhance their skills to work in an international project through assisting the Project Manager and Programme Officers with activity implementation.

### **6.3 Project Website, Partnership Website, E-Discussion Group and Newsletter**

113. After three years of operation, the project website [www.yslme.org](http://www.yslme.org) continues to run smoothly. The aim of "information dissemination" 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.

114. Based on a recommendation from the “1st Yellow Sea Partnership Workshop” in Beijing, China, 15-16 March 2006, the PMO established the Partnership website <http://partnership.iwlearn.org/> (Fig. 24). 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 (Table 2). Technically, the platform takes advantage of the free tools and services offered by IW:LEARN website toolkit, which aims to: (1) Enable any GEF project to have a powerful and easy to manage website; and (2) Utilize the internet based GIS Map server and standards for information exchange. The biggest benefit of the website is that the partners can update their news and schedule by themselves with provided ID and Password so it reduces the YSLME PMO’s work load. The right side of the main page shows news from the Yellow Sea partners and the main section automatically produces real time news on the Yellow Sea from GOOGLE.COM, using RSS technique and shows a GIS map of the sea.



Figure 24. The Partnership website <http://partnership.iwlearn.org/>.

Table 2. The list of registered partners for the Yellow Sea Partnership website.

Birds Korea  
 Citizens' Institute for Environmental Studies (CIES)  
 Cooperative Young Marine and Coastal Scholar Society (CYMCSS),  
 Dalian  
 DMZ Eco Research Centre  
 Global Village of Beijing (GVB)  
 Kanghai People's Network  
 Korea Federation for Environmental Movement (KFEM)  
 Korea Marine Rescue Center (KMRC)  
 Korea Ocean Research and Development Institute (KORDI)  
 Marine Stewardship Council (MSC)  
 Partnerships in Environmental Management for the Seas of East Asia  
 (PEMSEA)  
 Shihwa Life Saver  
 The Nature Conservancy (TNC), Beijing  
 UNEP Regional Seas Programme Northwest Pacific Action Plan  
 (NOWPAP)  
 UNDP/GEF Yellow Sea Large Marine Ecosystem (YSLME) Project  
 United Nations Development Programme (UNDP), China  
 Wetlands International (WI)  
 Worldwide Fund for Nature (WWF) – China, Hong Kong, and Japan  
 WWF/KORDI/KEI Yellow Sea Eco-Region Planning Programme (YSEPP)

115. In addition to the partnership website, an E-discussion group email serves as a forum to exchange views among the Yellow Sea Partners. If a group member sends any news, announcements, queries to [partnership@yslme.org](mailto:partnership@yslme.org), the e-mail address redirects all incoming e-mail to each registered participant's e-mail account. For registration for the partnership website and email group, please contact [info@yalme.org](mailto:info@yalme.org) or [euidea@yslme.org](mailto:euidea@yslme.org).
116. Quarterly paper- and electronic-based newsletters (Vol.3 No.1 – Vol.3 No.4) for this year were issued in January, April, July, and October (Fig. 25). The newsletter for the last three months of the year will be published in January 2008. The full list of newsletters is linkable on the website [www.yslme.org](http://www.yslme.org). It presents all past events, workshops, and activities implemented through the PMO. The PMO continues to seek better ways to communicate with the public and transmit information. Suggestions in this regard are welcome.



Figure 25. The Newsletter Vol.3 No.1 – Vol.3 No.4.

## 6.4 Operation of the Office

117. The PMO continues to operate within the rules and regulations of UNOPS.
118. A Temporary Finance Assistant was hired to replace Ms. Kyungsuk Lee who was on maternity leave for 4 months from Feb to May 2007. Ms. Kyungyun Lim joined the PMO on 10 January 2007, and managed the project's accounting and assisted with administrative issues.
119. Language Exchange Programme: PMO continued the lessons to share the basic communication skill in English, Chinese, Korea and Spanish with PMO staffs and KORDI on a regular basis.
120. New posters: PMO produced 4 new posters indicating the environmental problems in each component, diagram for handling the problems, and achievements of public awareness such as Yellow Sea Partnership, Local Government Training, Youth Programme, Small Grants Programme, Internship Programme, and Parliamentary Conference. The posters were displayed at GEF IW4 and the Regional Science Conference in Hangzhou.

121. Entry visa to ROK and China: With strong support from Ministry of Foreign Affairs and Trade in Korea and State Oceanic Administration in China, PMO facilitated the visa process for the meeting participants. Following extensive discussion with relevant organisation, it seems not possible to issue a re-entry visa for the experts of the projects, according to the national regulation.

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

### **7.1 Exchange of Memorandum on Co-operation**

122. The Yellow Sea Project has been actively seeking partnership with relevant organisations not only participating governments and their affiliated agencies, but also regional projects, NGOs, and universities to pursue more effective conservation activities.
123. During and since the 3<sup>rd</sup> PSC Meeting, the Project signed an MOU with the following organisations:
- IOC Sub-Commission for the Western Pacific (IOC/WESTPAC) on 23 November 2006;
  - UNDP/GEF Project on “Biodiversity Management in the Coastal Area of China’s South Sea (SCCBD)” on 13 December 2006;
  - Yonsei University Graduate School of International Studies on 8 March 2007;
  - Myongji University on 19 June 2007; and
  - Oceanic and Fisheries Administration of Shandong Province, China, on 6 August 2007.
124. The Project also signed a Letter of Co-operation (LOC) with PEMSEA on 16 December 2006, and an LOC with NOWPAP RCU on 24 May 2007.
125. The MOUs and LOCs state the partnership between the Project and the organisations mentioned above, specifying activities and focal areas to collaborate on.
126. The MOU signed on 7 March 2005 between the Project and the WWF/KORDI/KEI Yellow Sea Eco-Region Planning Programme was reviewed; then, the “Review Document and Future Implementation of Complementary Activities” was exchanged between the two projects on 25 June 2007. With current and future co-operative activities examined, the Review Document describes: (i) potential areas for co-operation; (ii) co-operation mechanism; and (iii) major areas for future co-operation.

### **7.2 Co-operation with NOWPAP in Marine Litter Issues**

127. The Project has been strengthening co-operation with NOWPAP in a variety of areas, especially in the area of marine litter. Programme Officers of the PMO contributed to International Coastal Cleanup Campaigns that NOWPAP organised in Rizhao, China, June 2007 and in Busan, ROK, September 2007 by giving presentations, attending panel discussions as panelists, and conducting coastal cleanup.
128. Those contributions not only enhanced collaboration between the two international projects, but also provided opportunities for the Project to expand its partnerships to relevant organisations such as local NGOs in China and ROK.

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

129. During a meeting, between Mr. Tobai of WWF and Mr. Jiang and Mr. Walton of YSLME at the PMO in February 2007, a list of complementary activities was drawn up.
130. The meeting produced a review document of the future implementation of joint activities which included three sections: potential areas for co-operation; co-operation mechanisms; and major areas for future co-operation. Important future co-operation will involve representation at both projects' PSC meetings, attendance of WWF personnel at SAP Ad-Hoc meetings and RWG-B meetings. WWF will continue to review YSLME small grants proposals and YSLME will assist in the reviewing of the proposals for small grants offered by the new WWF/YSESP project, which will be aimed at the protection of endangered and endemic species, one of the priority problems identified in the TDA.
131. WWF and YSLME have already adopted a common planning framework for the protection of habitats in the Yellow Sea. To assist in the selection of suitable sites for the demonstration of SAP management actions, WWF will perform an assessment of MPA/national nature reserve management effectiveness, with the results used in conjunction with the report from the contracted Biodiversity Advisors. This report will identify the best examples of RAMSAR habitats located in the Yellow Sea.
132. Finally, WWF and YSLME have agreed that a single SAP drafted by the YSLME project will be used for the protection of biodiversity and habitats in the Yellow Sea. The WWF have already provided considerable input into the SAP, attending all the YSLME SAP meetings to date.

### **7.4 Proposed Wetland Meeting with Other UNDP/GEF Funded Projects**

133. A meeting was proposed on "Exchanging experiences in biodiversity protection in coastal wetlands" between the UNDP/GEF funded projects in the region. Other important projects and NGO's involved in wetland protection are also to be invited to participate in the meeting. The objectives of the meeting are to:
  - i) Promote the exchange of information between the projects, and update each other on the progress and scheduled events;
  - ii) Share experiences and lessons in implementing project activities in wetland protection and management, including public awareness and capacity building activities;
  - iii) Explore possibilities of co-operation and co-ordination of the relevant project activities to improve effectiveness and maximize benefits of project implementation; and
  - iv) Prepare, if applicable, a joint workplan and/or activities for better protection and management of coastal wetlands in the region.
134. An invitation of interest was sent out to UNDP offices in China and ROK and WWF on 28<sup>th</sup> September 2007. Participants have suggested a meeting during the first quarter of 2008.

## 8 CHALLENGES TO PROJECT IMPLEMENTATION

135. After over two years of project implementation, there seems to be improvement with fewer challenges faced during project implementation. To continuing smooth project implementation, national and regional co-ordination must continue to be efficient and effective to ensure that the project's SAP objective is met.
136. In order to ensure successful project implementation in the remaining 2 years, it is critical that challenges in improved national and regional co-ordination 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 on implementation. The challenges to project implementation are listed in Table 3.

Table 3. Challenges to project implementation.

<u>Issue</u>	<u>Situation</u>
<b>Need to enhance the 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 should be strengthened, especially since SAP will be submitted for approval in the middle of next year.
<b>Expand participation in the national and regional working groups, to include other stakeholders such as NGOs</b>	Since project inception, the membership of NWGs, RWGs, and project partners have expanded to include more institutions. However, the new members are still limited in number or only on a short-term basis (Small Grants Programme). Considering the future of the project (SAP approval and subsequent implementation), it would be more effective and beneficial to the region if additional institutions, especially NGOs, have long-term involvement in the project. It should be noted that expanding long-term participation to more institutions, would not only bring more expertise and human resources to the project, but also bring more attention to the environmental problems faced by the Yellow Sea.
<b>Unstable NWG and RWG membership</b>	The members of some Regional Working Groups are still somewhat unstable with membership changes, although there was improvement in 2007. Consistent membership will lead to better understanding of the project for the individual, and also for the affected project component. Stable membership can help the implementation of project activities.
<b>Lack of institutional incentives</b>	While a stable membership of most RWGs has happened, the issue of lack of incentives has not been solved. It was reported that some RWG members were unwilling to attend RWG meetings because of lack of incentives. Institutional incentives should be pursued, while financial incentives (e.g., consulting fee for attendance) are neither appropriate nor available. The institutional incentives are conditions such that RWG meetings are a priority; the members get credits for participation. The participating governments should make sure that the importance of RWGs is understood clearly by the top management of organisations which dispatch the RWG members. Those

<u>Issue</u>	<u>Situation</u>
<p><b>Little regard for previously agreed meeting dates, deadlines and attention to reminders</b></p>	<p>organisations have to recognise the RWGs as a task with high priority.</p> <p>There continues to be a few delays in meeting milestones stated in legally signed contracts for activities, although this has improved. It is understood that contracted parties have busy schedules with their regular jobs; however, to take on a contract signifies a commitment to delivering the services on time. The delay in submission of some SGP reports has impacted the contractor's chance to receive future contracts.</p> <p>Contracted parties need to maintain a sense of urgency in order to maintain efficient project implementation.</p> <p>Agreements made for future meeting dates need to be observed. This year, only one RWG had its meeting during its previously agreed dates. The shifting of dates creates unnecessary extra work and co-ordination for all parties involved.</p>
<p><b>Need more attention and action on agreements from various meetings</b></p>	<p>The RWG, RSTP, and PSC Meetings are the fora for project partners to meet annually and agree on future project implementation. The discussions and agreements reached at these meetings should be addressed and acted upon, to minimize delay in project implementation. Postponing activities is not an efficient way for implementation.</p>
<p><b>More attention should be given to the quality of project deliveries</b></p>	<p>The implemented activities should produce useful results that meet the project's objectives and contribute to better management of the YS ecosystem. It is preferred to spend a little more time to find a good contractor that will produce good results, rather than focus on spending project money within the allotted time and compromise the quality of project delivery.</p>

139. As the project moves towards the approval of the SAP and potential implementation of the SAP, the challenges above illustrate 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 indeed provide the expected benefits to the region's marine environment.
140. Recommendations for future implementation to overcome the challenges are described in Section 9.

## 9 RECOMMENDATIONS FOR FUTURE IMPLEMENTATION

141. Recommendations for future implementation to overcome the challenges listed in Section 8 remain similar to previous years for the same challenges. Table 4 shows the challenges, recommendations, and improvements from previous years.
142. With the SAP under development, and potential for implementation starting within 3 year's time, it is not too early to develop a solid foundation to strengthen inter-agency co-operation and co-operation with other stakeholders. The trust among all

project partners and stakeholders seems to have improved, and should continue to build in order to ensure widespread regional collaborative efforts to produce the best possible results for the region's environmental management schemes. This, compounded with respect for deadlines and wise-use of donor funds will sustain good environmental protection and management of the Yellow Sea long into the future.

143. Some recommendations from the Mid-Term Evaluators are mentioned below.

#### **YS Commission**

144. The "Regional Governance Analysis" proposed the establishment of a Yellow Sea Commission and Secretariat to oversee the implementation of SAP and the sustainability of the management actions until 2020. The MTE Draft Final Report suggested that the costs and benefits and management mechanisms for establishing a Yellow Sea Commission and Secretariat should be listed to allow consideration for this option to be included in the SAP. "A Commission can enable the partner countries to normalise their joint efforts and provide a long term repository for bilateral and multilateral financial support."<sup>1</sup>

#### **Communications and Public Awareness Officer**

145. The project has made advances in enhancing public awareness and participation through the Yellow Sea Partnership. It is important for the other YS Partners to see this initiative as also benefiting their specific activities and interests, so that it becomes more of a mutually shared effort, and less of a YSLME-directed effort. The MTE suggested to consider adding a communications expert for the PMO. This person would take direct responsibility for public relations, web content, special events, educational programmes, the Yellow Sea Partnership and the Small Grants Programme. One or both of the partner countries could second a communications expert for this effort, perhaps on a rotating basis.
146. Future YS Partnership activities should continue to expand private sector support mechanisms, such as those already developed with Panasonic on the YSESP and Amway international on the Dandong Youth Programme.

#### **DPRK Involvement**

147. The MTR reiterated the importance of DPRK's full involvement in the project, "It is vital to the long-term sustainability of the Yellow Sea ecosystem that the DPRK becomes a partner in this regional effort." All project partners realise this issue and should strive to find a solution whereby DPRK can become fully involved in the project as soon as possible.

#### **Project Extension**

148. As mentioned in the 4<sup>th</sup> RWG-I Meeting Report, the members recommended the consideration of a no-cost extension for the project before starting Phase 2. This transition period would be used to prepare the initiation of Phase 2.

Table 4. Challenges to project implementation, recommendations, and areas of improvement.

<u>Issue</u>	<u>Recommendations</u>	<u>Improvement seen from last/previous years</u>	<u>Further action needed</u>
Need to enhance the roles of the IMCC	Further enhance national co-ordination		√

<sup>1</sup> From MTE Draft Final Report.

<u>Issue</u>	<u>Recommendations</u>	<u>Improvement seen from last/previous years</u>	<u>Further action needed</u>
Expand participation in the national and regional working groups, to include other stakeholders such as NGOs and universities	and roles of IMCC Further increase in incentive of the national participating institutions Further strengthen communication among all the project partners	√	√ Consider to include additional stakeholders
Unstable NWG and RWG membership		√ mostly	√ There is still the occasional change in membership √
Lack of institutional incentives	Further ensure the qualities of the project outcomes produced		
Reduction in institutional overhead fees for contracts and reporting on use of co-financing		√ for overhead reduction	√ Need further information on co-financing uses
Need for better understanding of the UN and GEF financial rules and operational mechanisms		√	
Little regard for deadlines and attention to reminders		√ mostly	√ Can still be improved somewhat
Need more attention and action on agreements from various meetings		√ some	√ Can still be improved somewhat
Communication between contracted parties/WG members and PMO		√	
Quality of output results		√ mostly	√ Can still be improved somewhat
Inadequate sense of trust among project partners		√ some	√ Can be improved

## Appendix I

### List of Meetings and Workshop-Related Activities Convened by the Project in 2007

6 - 8 Feb	SAP Consultation Meeting, Jinghong, China
10 - 12 April	First SAP <i>Ad-hoc</i> Working Group Meeting, Hongchun, ROK
14 - 15 May	Gene Pool Analysis Workshop, Busan, ROK
4 June	1 <sup>st</sup> Yellow Sea Ocean Colour Workshop, Ansan, ROK
18 - 20 June	Sustainable Mariculture Workshop, Taeon, ROK
19 June	Voluntary Internship Programme (VIP) Introductory Session, Seoul, ROK
10 - 12 July	2 <sup>nd</sup> Local Government Officials Workshop on Sea-use Regulations, Qingdao, China
11 - 12 Aug	Dandong Youth Public Awareness Programme, Dandong, China
14 - 16 Aug	First Yellow Sea Regional Science Conference, Hangzhou, China
18 - 20 Aug	Second SAP <i>Ad-hoc</i> Working Group Meeting, Hangzhou, China
1 - 2 Sept	2 <sup>nd</sup> Yellow Sea Ocean Colour Workshop, Nagasaki, Japan
4 - 6 Sept	Mariculture Carrying Capacity Workshop, Rongcheng, China
17 -19 Sept	4 <sup>th</sup> Regional Working Group Meeting - Biodiversity, Ansan, ROK
1 Oct	2 <sup>nd</sup> Yellow Sea Partnership Meeting, Busan, ROK
3 - 5 Oct	4 <sup>th</sup> Regional Working Group Meeting - Ecosystem, Ningbo, China
8 - 10 Oct	Inter-calibration Summary Workshop, Jeju, ROK
11 - 13 Oct	4 <sup>th</sup> Regional Working Group Meeting - Pollution, Jeju, ROK
11 - 13 Oct	Regional Conference on Protection of Marine Environment and Sustainable Use of Marine Resources in the Yellow Sea, Incheon, ROK
16 - 19 Oct	4 <sup>th</sup> Regional Working Group Meeting - Investment, Jeju, ROK
16 - 17 Oct	Regional workshop on mariculture disease control and prevention, Jeju, ROK
22 - 23 Oct	Proposal and Report Writing Workshop, Ansan, ROK
26 Oct	VIP Reporting Session, Ansan, ROK

7 - 9 Nov	4 <sup>th</sup> Regional Working Group Meeting - Fisheries, Seokcho, ROK
26 - 28 Nov	4 <sup>th</sup> RSTP Meeting, Guangzhou, China
29 - 30 Nov	4 <sup>th</sup> PSC Meeting, Guangzhou, China

## Appendix II

### Expenditure Report for 2007

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Budget Yr 2007	Expenditure JAN-OCT	Estimated Expenditure NOV-DEC	Expenditure for Cruise	Total Expenditure Yr 2007 JAN_DEC	Budget Balance Yr 2007
0.PMO	0A	Salary	1101	Programme Manager	186,221	-168,820	-56,983	0	-225,803	-39,582
			1102	Environ Officer	117,137	-93,051	-41,266	0	-134,317	-17,180
			1103	Fisheries Officer	115,081	-97,106	-31,027	0	-128,133	-13,052
			1104	Economist	112,536	-91,068	-33,783	0	-124,851	-12,315
			1301	Secretary	37,256	-31,196	-6,422	0	-37,618	-362
			1302	Driver	31,291	-26,030	-5,343	0	-31,373	-82
			1303	Adm. Asst.	37,256	-41,796	-6,422	0	-48,218	-10,962
			1304	Finance & Adm. Officer	62,745	-54,847	-10,611	0	-65,458	-2,713
			1305	IT specialist	37,256	-31,196	-6,422	0	-37,618	-362
	<b>Sub Total</b>				<b>736,777</b>	<b>-635,110</b>	<b>-198,279</b>	<b>0</b>	<b>-833,389</b>	<b>-96,612</b>
	0B	Premises	4101	Office supplies	5,000	-4,405	-3,483	0	-7,888	-2,888
			4102	Library acquisitions	1,000	-38	0	0	-38	962
			4104	Computer Software	2,500	-33	0	0	-33	2,467
			4201	Computers	3,000	-103	0	0	-103	2,897
			4203	Printers	300	0	0	0	0	300
			4204	Copy machine (small size)	0	0	0	0	0	0
			4205	PowerPoint OHP	0	0	0	0	0	0
			4206	Automobile	0	0	0	0	0	0
			4301	Office rent	0	0	0	0	0	0
4302			Furniture	2,000	-3,543	0	0	-3,543	-1,543	
4303	Premises costs	0	0	0	0	0	0			

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Budget Yr 2007	Expenditure JAN-OCT	Estimated Expenditure NOV-DEC	Expenditure for Cruise	Total Expenditure Yr 2007 JAN_DEC	Budget Balance Yr 2007
			5101	Rental & maint. of computer equip.	0	0	0	0	0	0
			5102	Rental & maint. of copiers	1,500	0	0	0	0	1,500
			5103	Repair & maint. of vehicles & insurance	5,000	-2,948	-655	0	-3,603	1,397
			5104	Rental & maint. of other office equip	2,500	0	0	0	0	2,500
			5105	Rental of meeting rooms & equip.	0	0	0	0	0	0
			5220	Publication (other than reports)	12,000	0	-8,220	0	-8,220	3,780
			5221	Webpage design and updating	500	-758	0	0	-758	-258
			5301	Communication	5,000	-957	-441	0	-1,398	3,602
			5302	Postage/freight	1,250	-2,668	-2,740	0	-5,408	-4,158
			5303	Operation cost	9,000	-10,818	-2,366	0	-13,184	-4,184
			5600	UNOPS Project Supporting Cost(6%)	47,240	-39,683	-12,971	0	-52,654	-5,414
			<b>Sub Total</b>		<b>97,790</b>	<b>-65,954</b>	<b>-30,876</b>	<b>0</b>	<b>-96,830</b>	<b>960</b>
			<b>0.PMO Total</b>		<b>834,567</b>	<b>-701,064</b>	<b>-229,155</b>	<b>0</b>	<b>-930,219</b>	<b>-95,652</b>
6.Cross Component	6A	Travel	1501	Project Staff Travel	77,800	-60,274	-30,308	0	-90,582	-12,782
			1601	Annual Tri Part Review (IVB)	8,000	0	0	0	0	8,000
			1602	Interviews/Travel (CTA Prospects) (IVB)	0	0	0	0	0	0
	6B	Meeting	3301	Project Steering Committee meetings	22,000	0	-13,560	0	-13,560	8,440
			3302	RSTP meetings	25,000	0	-25,252	0	-25,252	-252

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Budget Yr 2007	Expenditure JAN-OCT	Estimated Expenditure NOV-DEC	Expenditure for Cruise	Total Expenditure Yr 2007 JAN_DEC	Budget Balance Yr 2007
			3303	Regional scientific conferences	120,000	-64,170	-1,612	0	-65,782	54,218
	6C	Premises	4208	Sea-going equipment	108,060	0	-108,060	0	-108,060	0
			4210	Equipment unspecified	20,000	0	-20,000	0	-20,000	0
	6D	Contingencies	1223	Other consultant contracts	30,000	-7,610	0	0	-7,610	22,390
			2135	Other institutional contracts	115,000	0	-54,000	0	-54,000	61,000
			3102	Short term fellowship for training	10,000	0	0	0	0	10,000
			3217	Additional training activities	80,000	-6,082	0	0	-6,082	73,918
			3335	Additional meetings required	40,000	-2,301	0	0	-2,301	37,699
			5219	Printing cost for the additional reports	12,000	-213	0	0	-213	11,787
			5401	Exigency costs	96,000	-1,908	0	0	-1,908	94,092
			5501	Evaluation (consultants fees/travel/DSA)	48,000	-19,702	-28,298	0	-48,000	0
			5600	UNOPS Project Supporting Cost(6%)	48,712	-9,736	-16,865	0	-26,601	-52,653
			<b>Sub Total</b>		<b>860,572</b>	<b>-171,996</b>	<b>-297,955</b>	<b>0</b>	<b>-469,951</b>	<b>315,857</b>
<b>6.Cross Component Total</b>					<b>860,572</b>	<b>-171,996</b>	<b>-297,955</b>	<b>0</b>	<b>-469,951</b>	<b>315,857</b>
1.Fisheries	1A	Stock assessment	1201	Development of Joint Stock Assessment Guidelines-Consultant	0	-9,780	0	0	-9,780	-9,780
			2101	Institution Contracts for Data & Information collection	0	0	0	0	0	0
			2102	Institution Contracts to Revise National Stock Assessment Data	0	0	0	0	0	0

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Budget Yr 2007	Expenditure JAN-OCT	Estimated Expenditure NOV-DEC	Expenditure for Cruise	Total Expenditure Yr 2007 JAN_DEC	Budget Balance Yr 2007
			2103	Institution Contract to Perform Regional Stock Assessment (Cooperative Cruise)	120,000	0	0	0	0	120,000
			5201	Stock assessment report	0	0	-4,000	0	-4,000	-4,000
			1225	Expert exchange programme	7,000	0	0	0	0	7,000
	1B	Carrying capacity	1202	Developing Guidelines for Carrying Capacity Analysis-Consultant	0	0	0	0	0	0
			2104	Institution Contracts for Annual carrying capacity determination	0	0	0	0	0	0
			5202	Carrying capacity report	894	0	-3,000	0	-3,000	-2,106
			2146	Carrying capacity technical guide line (mariculture)	10,500	-10,500	0	0	-10,500	0
			3338	Regional training for carrying capacity (mariculture)	15,000	-10,249	-3,290	0	-13,539	1,461
	1C	Mariculture Production	1203	Development of Sustainable Mariculture-Consultant	0	-6,300	0	0	-6,300	-6,300
			1701	Mariculture Advisor	25,000	0	0	0	0	25,000
			2105	Institution Contracts to Implement mariculture techniques (Demonstration Projects).	0	0	0	0	0	0
			3202	Reg. training on mariculture techniques	20,000	-17,741	0	0	-17,741	2,259

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Budget Yr 2007	Expenditure JAN-OCT	Estimated Expenditure NOV-DEC	Expenditure for Cruise	Total Expenditure Yr 2007 JAN_DEC	Budget Balance Yr 2007
			3203	Reg training on disease diagnosis, prevention and control	20,000	-14,000	-4,900	0	-18,900	1,100
	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	0
			1205	Prepare regional Agreement on Legislation-Consultant	7,000	0	0	0	0	7,000
			1206	SAP-fisheries-Consultant	7,000	0	0	0	0	7,000
			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	-4,000	0	-4,000	-4,000
	1E	Meetings	3304	RWG-F Meeting 1	0	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	17,500	0	-11,200	0	-11,200	6,300
			3308	RWG-F Meeting 5	0	0	0	0	0	0
			3309	RWG-F Meeting 6	0	0	0	0	0	0
	<b>Sub Total</b>				<b>249,894</b>	<b>-68,570</b>	<b>-30,390</b>	<b>0</b>	<b>-98,960</b>	<b>150,934</b>
	1A	Stock assessment	2107	Ship rental	256,372	0	0	-300,000	-300,000	-43,628
			4207	Equipment for regional survey (f)	40,000	0	0	0	0	40,000
			3336	2nd & 3rd Technical Meeting for the Cooperative Cruise	0	0	0	0	0	0

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Budget Yr 2007	Expenditure JAN-OCT	Estimated Expenditure NOV-DEC	Expenditure for Cruise	Total Expenditure Yr 2007 JAN_DEC	Budget Balance Yr 2007
	1F	UNOPS Project Supporting Cost	5303	Operation cost	0	-270	0	0	-270	-270
5601			UNOPS Project Supporting Cost(6%)	32,776	-4,130	-1,823	-18,000	-23,953	8,823	
<b>Sub Total</b>			<b>329,148</b>	<b>-4,400</b>	<b>-1,823</b>	<b>-318,000</b>	<b>-324,223</b>	<b>4,925</b>		
<b>1.Fisheries Total</b>					<b>579,042</b>	<b>-72,970</b>	<b>-32,213</b>	<b>-318,000</b>	<b>-423,183</b>	<b>155,859</b>
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	-6,800	0	0	-6,800	-6,800
			2108	Institution Contracts to review existing national practices of coastal habitat use, conservation & restoration	0	-26,823	0	0	-26,823	-26,823
			2109	Institution Contracts to Implement Regional Strategy for Conservation Areas	75,000	0	0	0	0	75,000
			5204	Review national practices of coastal habitat use, conservation, and restoration- Printing costs	0	0	0	0	0	
			5205	Review of status of vulnerable species and vulnerable trophic linkages- Printing costs	3,000	0	-3,000	0	-3,000	0
	2B	Genetic	1702	Biodiversity Advisor	25,500	0	-10,000	0	-10,000	15,500

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Budget Yr 2007	Expenditure JAN-OCT	Estimated Expenditure NOV-DEC	Expenditure for Cruise	Total Expenditure Yr 2007 JAN_DEC	Budget Balance Yr 2007
		Diversity	2144	Genetic diversity	21,660	-11,559	-2,500	0	-14,059	7,601
	2C	Meetings	3310	RWG-B Meeting 1	0	0	0	0	0	0
			3311	RWG-B Meeting 2	0	0	0	0	0	0
			3312	RWG-B Meeting 3	0	0	0	0	0	0
			3313	RWG-B Meeting 4	17,500	-9,570	-1,037	0	-10,607	6,893
			3314	RWG-B Meeting 5	0	0	0	0	0	0
			3315	RWG-B Meeting 6	0	0	0	0	0	0
	<b>Sub Total</b>				<b>142,660</b>	<b>-54,752</b>	<b>-16,537</b>	<b>0</b>	<b>-71,289</b>	<b>71,371</b>
	2C	Meetings	3337	Cross Component Conference (RSTP3)	9,017	0	0	0	0	9,017
	2D	UNOPS Project Supporting Cost	5303	Operation cost	0	0	0	0	0	0
			5602	UNOPS Project Supporting Cost(6%)	9,101	-3,285	-992	0	-4,277	4,824
	<b>Sub Total</b>				<b>18,118</b>	<b>-3,285</b>	<b>-992</b>	<b>0</b>	<b>-4,277</b>	<b>13,841</b>
<b>2.Biodiversity Total</b>					<b>160,778</b>	<b>-58,037</b>	<b>-17,529</b>	<b>0</b>	<b>-75,566</b>	<b>85,212</b>
3.Ecosystem	3A	Status of Ecosystem	1216	Regional data synthesis - Institution Contracts	0	-8,872	0	0	-8,872	-8,872
			1703	Ecosystem Advisor	10,000	0	0	0	0	10,000
			2118	Institution Contracts - Nat'l data & Info collection	0	-15,937	0	0	-15,937	-15,937
			2119	Institution Contracts for Demonstration of new and innovative technologies for monitoring (FRRF)	25,000	0	-10,000	0	-10,000	15,000

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Budget Yr 2007	Expenditure JAN-OCT	Estimated Expenditure NOV-DEC	Expenditure for Cruise	Total Expenditure Yr 2007 JAN_DEC	Budget Balance Yr 2007
			3208	Reg training (estimation) on carrying capacity of ecosystem (CPR)	24,446	-8,240	0	0	-8,240	16,206
			2121	Institution Contracts for cooperative study cruise - ecosystem	0	0	0	-140,000	-140,000	-140,000
			3334	Regional workshop on remote sensing for monitoring ecosystem	20,000	-14,000	-6,000	0	-20,000	0
			2136	Spring cruise benthos and sediment core	0	0	0	-4,683	-4,683	-4,683
			2137	Intercalibration	0	0	0	-20,000	-20,000	-20,000
	3B	Carrying Capacity of Ecosystem	1217	Prepare guidelines for ecosystem carrying capacity-Consultant	10,500	0	0	0	0	10,500
			5211	Publish report on carrying capacity-Printing costs	3,000	0	-3,000	0	-3,000	0
			1218	ID and rank stresses to ecosystem-Consultant ( regional monitoring)	10,500	0	0	0	0	10,500
	3C	Stressors to Ecosystem	2120	Institution Contracts to develop long-term sustainable investments & lessen stress to ecosystem	20,000	0	0	0	0	20,000
			5212	Publish reports-Stresses to ecosystem-Printing costs	3,000	0	-3,000	0	-3,000	0
	3D	Meetings	3322	RWG-E Meeting 1	0	0	0	0	0	0

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Budget Yr 2007	Expenditure JAN-OCT	Estimated Expenditure NOV-DEC	Expenditure for Cruise	Total Expenditure Yr 2007 JAN_DEC	Budget Balance Yr 2007	
			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	17,500	-9,249	0	0	-9,249	8,251	
			3326	RWG-E Meeting 5	0	0	0	0	0	0	
			3327	RWG-E Meeting 6	0	0	0	0	0	0	
	<b>Sub Total</b>				<b>143,946</b>	<b>-56,298</b>	<b>-22,000</b>	<b>-164,683</b>	<b>-242,981</b>	<b>-99,035</b>	
	3E	UNOPS Project Supporting Cost	5303	Operation cost	0	0	0	0	0	0	
			5603	UNOPS Project Supporting Cost(6%)	8,637	-3,378	-1,320	-9,881	-14,579	-5,942	
			<b>Sub Total</b>				<b>8,637</b>	<b>-3,378</b>	<b>-1,320</b>	<b>-9,881</b>	<b>-14,579</b>
	<b>3.Ecosystem Total</b>					<b>152,583</b>	<b>-59,676</b>	<b>-23,320</b>	<b>-174,564</b>	<b>-257,560</b>	<b>-104,977</b>
	4.Pollution	4A	Contaminant Inputs (Critical Spots)	1211	Regional data synthesis - consultant	0	-9,450	0	0	-9,450	-9,450
2111				Institution Contracts - nat'l data & info collection	0	-33,993	0	0	-33,993	-33,993	
5206				Publish report-reg'l data synthesis-Printing costs	0	0	-3,000	0	-3,000	-3,000	
1224				Visiting Scientist Programme	0	0	0	0	0	0	
4B		Contaminant Levels	1212	Reg'l monitoring guidelines; indicators to assess convention implementation-consultant (IAEA)	10,500	0	-10,500	0	-10,500	0	

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Budget Yr 2007	Expenditure JAN-OCT	Estimated Expenditure NOV-DEC	Expenditure for Cruise	Total Expenditure Yr 2007 JAN_DEC	Budget Balance Yr 2007
			2112	Institution Contracts for cooperative study cruise	0	0	0	-100,000	-100,000	-100,000
			2113	Institution Contracts for Intercalibration exercise (QHSS+IAEA)	0	-4,480	-10,988	0	-15,468	-15,468
			3206	Training on contaminant monitoring (phytotoxin)	0	0	0	0	0	0
			3218	Training Course assessing marine environment quality	15,000	0	0	0	0	15,000
			3219	Level 2 Training Courses (Joint with AMETEC)	17,906	0	0	0	0	17,906
			3339	Intercalibration Summary Workshop	10,000	-9,984	-7,516	0	-17,500	-7,500
	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	0
2116			Institution Contracts for ICM actions for controlling discharge of contaminants and nutrients	0	0	0	0	0	0	0
5210			Publish report-Fate and transport of contaminants-Printing costs	3,000	0	-3,000	0	-3,000	0	

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Budget Yr 2007	Expenditure JAN-OCT	Estimated Expenditure NOV-DEC	Expenditure for Cruise	Total Expenditure Yr 2007 JAN_DEC	Budget Balance Yr 2007
	4D	Regional Strategy Pollution Control	1213	Reg'l synthesis contaminant fate and transport-Consultant(IC)	14,000	-11,477	0	0	-11,477	2,523
			1215	Reg'l investment strategy & imp. plan pollution control - Consultant (IAEA)	14,000	0	-2,312	0	-2,312	11,688
			2114	Institution Contracts to implement regional pollution control strategies	0	0	0	0	0	0
			2117	Institution Contracts to implement contaminant remediation/prevention	0	0	0	0	0	0
			5207	Publish regional invest. strategy-Printing costs	0	0	0	0	0	0
			5209	Publish reg'l strategy activity results-Printing costs	0	0	0	0	0	0
	4E	Meetings	3316	RWG-P Meeting 1	0	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	17,500	-5,854	-3,840	0	-9,694	7,806
			3320	RWG-P Meeting 5	0	0	0	0	0	0
			3321	RWG-P Meeting 6	0	0	0	0	0	0
	<b>Sub Total</b>				<b>101,906</b>	<b>-75,238</b>	<b>-41,156</b>	<b>-100,000</b>	<b>-216,394</b>	<b>-114,488</b>
	4F	UNOPS Project Supporting Cost	5303	Operation cost	0	0	0	0	0	0
			5604	UNOPS Project Supporting Cost(6%)	6,114	-4,514	-2,469	-6,000	-12,984	-6,869
			<b>Sub Total</b>				<b>6,114</b>	<b>-4,514</b>	<b>-2,469</b>	<b>-6,000</b>

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Budget Yr 2007	Expenditure JAN-OCT	Estimated Expenditure NOV-DEC	Expenditure for Cruise	Total Expenditure Yr 2007 JAN_DEC	Budget Balance Yr 2007
<b>4.Pollution Total</b>					<b>108,020</b>	<b>-79,752</b>	<b>-43,625</b>	<b>-106,000</b>	<b>-229,378</b>	<b>-121,358</b>
5.Investment	5A	Stakeholders & Public Awareness	2123	Institution Contracts for Governance analysis	0	0	0	0	0	0
			2145	Regional governance analysis	14,000	-8,700	-5,820	0	-14,520	-520
			2124	Institution Contracts for The Yellow Sea and Youth	8,000	-3,000	-5,090	0	-8,090	-90
			2125	Institution Contracts to Organize regular stakeholders conference (1/yr)	0	0	0	0	0	0
			2130	Institution Contracts to Organize public awareness conferences	0	0	0	0	0	0
			2131	Institution Contracts to Prepare public awareness materials	0	-1,160	0	0	-1,160	-1,160
			2132	Institution Contracts to Produce multi-media, e.g., project pins, mouse pads, posters, etc.	0	0	0	0	0	0
			3101	Intern programme	24,000	-3,080	-4,940	0	-8,020	15,980
			3210	Training for decision makers	0	0	0	0	0	0
			3211	Training for community trainers	0	0	0	0	0	0
			3212	Training for local governmental officers	6,749	0	0	0	0	6,749

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Budget Yr 2007	Expenditure JAN-OCT	Estimated Expenditure NOV-DEC	Expenditure for Cruise	Total Expenditure Yr 2007 JAN_DEC	Budget Balance Yr 2007
			3340	2nd Training for local governmental officers	30,000	-21,028	-835	0	-21,863	8,137
			3216	Public awareness training	0	0	0	0	0	0
			5214	Print newsletters	1,000	-1,462	-495	0	-1,957	-957
			2138	Partnership Workshop	0	0	0	0	0	0
			3341	2nd Partnership Workshop	9,834	0	0	0	0	9,834
			2139	EAS Congress Workshop and Joint Session	0	-3,631	0	0	-3,631	-3,631
			2140	Parliamentary Workshop	0	0	0	0	0	0
			3342	2nd Parliamentary Workshop	25,000	-10,383	-9,410	0	-19,793	5,207
	5B	TDA & SAP (Regional Coordination)	1219	Prepare TDA-Consultant	0	-1,025	0	0	-1,025	-1,025
1220			Prepare regional SAP-Consultant	21,000	-10,000	0	0	-10,000	11,000	
1706			TDA NPPP	0	0	0	0	0	0	
3343			SAP consultation	20,000	-51,929	0	0	-51,929	-31,929	
2126			Institution Contracts to Prepare NYSAP	14,500	0	0	0	0	14,500	
5215			Print the final TDA	0	-4,875	0	0	-4,875	-4,875	
5216			Print NYSAP	0	0	0	0	0	0	
5217			Print regional SAP	0	0	0	0	0	0	
2141			Regional valuation guideline	21,000	0	-12,110	0	-12,110	8,890	
	5C	National Coordination (Institutions)	1704	NCU Coordinator (K)	60,000	-65,604	0	0	-65,604	-5,604
1705			NCU Coordinator (C)	34,800	-34,800	0	0	-34,800	0	
2127			Institution Contracts to analyse institutional arrangements	0	0	0	0	0	0	

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Budget Yr 2007	Expenditure JAN-OCT	Estimated Expenditure NOV-DEC	Expenditure for Cruise	Total Expenditure Yr 2007 JAN_DEC	Budget Balance Yr 2007
			2133	National co-ordinating mechanism (C)	35,580	-35,580	0	0	-35,580	0
			2134	National co-ordinating mechanism (K)	10,420	-12,032	-26,625	0	-38,657	-28,237
			3213	Training on Project document preparation	21,500	-15,626	-3,083	0	-18,709	2,791
			3214	Training on Fund raising	0	0	0	0	0	0
	5D	Data and Information Management	1222	Develop regional data & info systems-Consultant	7,000	0	0	0	0	7,000
			1707	DIM Consultants	20,000	0	0	0	0	20,000
			3215	Training on DIM	20,000	0	0	0	0	20,000
			4103	GIS Software	0	0	0	0	0	0
			4202	GIS workstation	0	0	0	0	0	0
			4209	Equipment for DIM	23,098	0	0	0	0	23,098
			2143	Maintenance of Meta and GIS Databases	15,000	-6,000	-9,000	0	-15,000	0
	5E	Meetings	3328	RWG-I Meeting 1	0	0	0	0	0	0
			3329	RWG-I Meeting 2	0	0	0	0	0	0
			3330	RWG-I Meeting 3	0	0	0	0	0	0
			3331	RWG-I Meeting 4	17,500	-13,040	-6,176	0	-19,216	-1,716
			3332	RWG-I Meeting 5	0	0	0	0	0	0
			3333	RWG-I Meeting 6	0	0	0	0	0	0
<b>Sub Total</b>					<b>459,981</b>	<b>-302,955</b>	<b>-83,584</b>	<b>0</b>	<b>-386,539</b>	<b>73,442</b>
	5F	Financial Sustainability (Instruments)	2129	Demonstration projects on sustainable investment	0	0	0	0	0	0
			2142	Small Grants Projects	52,430	-24,000	-32,850	0	-56,850	-4,420

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Budget Yr 2007	Expenditure JAN-OCT	Estimated Expenditure NOV-DEC	Expenditure for Cruise	Total Expenditure Yr 2007 JAN_DEC	Budget Balance Yr 2007
	5G	UNOPS Project Supporting Cost	5303	Operation cost	0	0	0	0	0	0
			5605	UNOPS Project Supporting Cost(6%)	30,745	-19,617	-6,986	0	-26,603	4,142
			<b>Sub Total</b>		<b>83,175</b>	<b>-43,617</b>	<b>-39,836</b>	<b>0</b>	<b>-83,453</b>	<b>-278</b>
			<b>5.Investment Total</b>		<b>543,155</b>	<b>-346,572</b>	<b>-123,420</b>	<b>0</b>	<b>-469,992</b>	<b>73,163</b>
			<b>Grand Total</b>		<b>3,238,716</b>	<b>-1,490,067</b>	<b>-767,217</b>	<b>-598,564</b>	<b>-2,855,849</b>	<b>308,104</b>



**Appendix III**  
**PMO's Inventory List**

Jan. 2007	928	Jul. 2007	917.00	<b>UN EXCHANGE RATE</b>
Feb. 2007	925	Aug. 2007	903.00	
Mar. 2007	928	Sep. 2007	940.00	
Apr. 2007	941	Oct. 2007		
May. 2007	917	Nov. 2007		
Jun. 2007	920	Dec. 2007		

Period	PROJECT EXPENDITURE					EXPENDITURE AMOUNT		Authorizati on	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>	Including OS Software(130,000) Including OS Software(130,000) <b>Disposal on 2005</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>	
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>	
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>		
Dec.04	4302	72200	Furniture	Partition	F-04-001	KF104W * 5	KRW 775,500	<b>736.47</b>	<b>34</b>	

Period	PROJECT EXPENDITURE						EXPENDITURE AMOUNT		Authorizati on	Ref
	BUDGET LINES	ACCOUNT	ACCOUNT DESCRIPTION				LC	US\$ equi		
<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	252.61	34	
Dec.04	4302	72200	Furniture	Connector	F-04-001	KF5214 T * 2	KRW 35,800	34.00	34	
Dec.04	4302	72200	Furniture	Connector	F-04-001	KF5114 L * 1	KRW 15,200	14.43	34	
Dec.04	4302	72200	Furniture	Connector	F-04-001	KF6014 * 6	KRW 49,800	47.29	34	
Dec.04	4302	72200	Furniture	Partition	F-04-001	KF126 * 5	KRW 1,055,000	1,001.90	34	
<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	339.22	34	
<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	20.32	34	
Dec.04	4302	72200	Furniture	Connector	F-04-001	KF5116 L * 1	KRW 20,000	18.99	34	
Dec.04	4302	72200	Furniture	Connector	F-04-001	KF6016 * 5	KRW 48,500	46.06	34	
<b>Jul.05</b>	<b>4302</b>	<b>72200</b>	<b>Furniture</b>	<b>Partition</b>	F-04-001	<b>(KF6016 * 4)</b>	<b>-KRW 5,706</b>	<b>(5.57)</b>		<b>Disposal on 2005</b>
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	

Period	PROJECT EXPENDITURE						EXPENDITURE AMOUNT		Authorizati on	Ref
	BUDGET LINES	ACCOUNT	ACCOUNT DESCRIPTION				LC	US\$ equi		
Dec.04	4302	72200	Furniture	Cabinet	F-04-005	SC0085W5 * 4	KRW 505,200	<b>479.77</b>	<b>34</b>	
Dec.04	4302	72200	Furniture	Cabinet	F-04-006	SC0082W2 *1	KRW 86,900	<b>82.53</b>	<b>34</b>	
Dec.04	4302	72200	Furniture	Cabinet Door	F-04-004	SB0082W2 * 5	KRW 238,500	<b>226.50</b>	<b>34</b>	
Dec.04	4302	72200	Furniture	Conferenc e Table	F-04-007	SR118	KRW 214,500	<b>203.70</b>	<b>34</b>	
Dec.04	4302	72200	Furniture	Chair	F-04-008	CH0011AF * 6	KRW 605,400	<b>574.93</b>	<b>34</b>	
Dec.04	4302	72200	Furniture	Folding Table	F-04-009	CR9006 * 1	KRW 116,800	<b>110.92</b>	<b>34</b>	
Dec.04	4302	72200	Furniture	Cabinet	F-04-0010	SC982F 800	KRW 111,000	<b>105.41</b>	<b>34</b>	
Dec.04	4302	72200	Furniture	Cabinet	F-04-0011	SC982C 800	KRW 367,600	<b>349.10</b>	<b>34</b>	
Dec.04	4302	72200	Vehicle	Motor Vehicle	V-04-001	Hyundai Trajet 2.0 A/T	KRW 24,094,000	<b>22,881.29</b>	<b>30</b>	
Jul.05	4104/4201	72800	IT Equipment	Office Software	I-05-001	Windows XP Pro (Kor)	355,000	<b>354.65</b>	<b>PO%19281- 44,45</b>	krw 355,000 * 1ea
Jul.05	4104/4201	72800	IT Equipment	Office Software	I-05-002	MS windows XP Pro (Eng)	1,155,000	<b>1,153.85</b>	<b>PO%19281- 44,45</b>	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	<b>3,386.61</b>	<b>PO%19281- 44,45</b>	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	<b>455.54</b>	<b>PO%19281- 44,45</b>	krw 456,000 * 1ea
Jul.05	4104/4201	72800	IT Equipment	Office Software	I-05-005	Acrobat 7.0 Std (Eng)	900,000	<b>899.10</b>	<b>PO%19281- 44,45</b>	krw 300,000 * 3ea
Nov.05	4104	72800	IT Equipment	Office Software	I-05-006	MS Project 2003 Std - OLP NL (Eng)	650,000	<b>623.20</b>	<b>PO#29386- 14</b>	1ea
Nov.05	4201	72800	IT Equipment	Lap-top Computer	I-05-007	Fujitsu S6240- SDM16	1,700,000	<b>1,629.91</b>	<b>PO#29386- 13</b>	
Apr.05	4201	72800	IT Equipment	Portable Hard Disk	I-05-008		CNY 640	<b>77.91</b>	<b>PO#19281- 44</b>	
May.05	4201	72800	IT Equipment	Lap-top Computer	I-05-009	Fujitsu S7011SF16	KRW 1,760,000	<b>1,777.60</b>	<b>PO#19281- 44</b>	

Period	PROJECT EXPENDITURE					EXPENDITURE AMOUNT		Authorizati on	Ref	
	BUDGET LINES	ACCOUNT	ACCOUNT DESCRIPTION			LC	US\$ equi			
Jun.05	4201	72800	IT Equipment	DVD Read/Writ er	I-05-0010		198.98	PO#19281- 44		
Mar.05	4204	72200	Office Equipment	Copy machine	O-05-001	Cannon IC-D380H	KRW 550,000	550.00	PO#17811- 01	
Apr.05	4210	72200	Office Equipment	Digital Camera	O-05-002	Nikon Coolpix3700	KRW 279,000	281.36	PO#19281- 38	
Apr.05	4210	72200	Office Equipment	Type Writer	O-05-003	ET-3800 Kyungbang Co.	KRW 200,000	201.69	PO#17811- 07	
May.05	4210	72200	Office Equipment	Safety Box	O-05-004	Bum Il ESD- 104A(Digital Double Locking)	KRW 299,000	301.99	PO#19281- 38	
May.05	4210	72200	Office Equipment	Conferenc e Call Machine	O-05-005	SoundPointPro225	KRW 370,000	372.38	PO#19281- 38	
Jul.05	4302	72200	Furniture	Task Chair	F-05-002	CH0011AF * 8 (615*530*785)	KRW 896,000	883.72	PO#19281- 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#19281- 39	KRW 125,000
Jul.05	4302	72200	Furniture	Desk	F-05-004	TD016 * 2 (1600*800*720)	KRW 426,000	420.16	PO#19281- 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#19281- 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#19281- 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#19281- 39	KRW 312,000
Jul.05	4302	72200	Furniture	Folding Table	F-05-008	CR9006 * 1 (590~610*480~520 *720)	KRW 113,000	111.45	PO#19281- 39	KRW 113,000
Jul.05	4302	72200	Furniture	Partition	F-05-001	KF104W * 9 (1000*66*1370)	KRW 1,557,000	1,535.65	PO#19281- 39	KRW 173,000

Period	PROJECT EXPENDITURE					EXPENDITURE AMOUNT		Authorizati on	Ref	
	BUDGET LINES	ACCOUNT	ACCOUNT DESCRIPTION			LC	US\$ equi			
Jul.05	4302	72200	Furniture	Partition Frame	F-05-001	KF0104 * 2 (1000*34*1370)	KRW 96,000	94.68	PO#19281- 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#19281- 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#19281- 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#19281- 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#19281- 39	KRW 16,000
Jul.05	4302	72200	Furniture	Endong	F-05-001	KF6014 * 10 (H: 1370)	KRW 90,000	88.77	PO#19281- 39	KRW 9,000
Jul.05	4302	72200	Furniture	Leg	F-05-001	KF8001 * 2	KRW 44,000	43.40	PO#19281- 39	KRW 22,000
Jul.05	4302	72200	Furniture	Shelf	F-05-001	KT3010 * 2 (1000*360*200)	KRW 96,000	94.68	PO#19281- 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%35736- 10	
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	Headphone_Sennh eiser HD202 Closed back monitor	NZD 56.00	41.35	PO%35736- 10	
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	Video Camcoder	NZD 4,747.50	3,505.55	PO%35736- 10	
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	Video Light HVL20DW2	NZD 112.50	83.07	PO%35736- 10	
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	Battery Pack - NPF970	NZD 483.76	357.21	PO%35736- 10	
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	AC Adaptor and Power Charger	NZD 237.96	175.71	PO%35736- 10	

Period	PROJECT EXPENDITURE					EXPENDITURE AMOUNT		Authorizati on	Ref
	BUDGET LINES	ACCOUNT	ACCOUNT DESCRIPTION			LC	US\$ equi		
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	ACVQ1050D Wireless Lavalier Mike Kit UWPC1	NZD 686.25	506.73	PO%35736-10
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	Tripod/Stand	NZD 151.88	112.15	PO%35736-10
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	DVCAM Tapes VF58CPKS	NZD 239.00	176.48	PO%35736-10
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	IEEE DV Cable	SGD 145.00	89.51	PO%35736-10
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	Headphone port adaptor	SGD 12.00	7.41	PO%35736-10
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	Memory Stick	SGD 95.00	58.64	PO%35736-10
Mar.06	4210	72200	Office Equipment	SONY Camcoder	O-06-001	Rain Cofer + Shipping		99.90	PO%35736-10
Feb.06	4201	72800	IT Equipment	Lap-top Computer	I-06-001	Toshiba M50-03601S	KRW 1,400,000	1,452.28	PO%35736-15
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%41557-12, PO%35736-15
Dec.06	4104	72800	IT Equipment	Office Software	I-06-003	Expert Choice Software	KRW 3,900,000	4,190.98	PO%53903-03
Nov.06	4205	72200	Office Equipment	LCD Projector	O-06-002	Sony CX20		1,560.00	PO%46928-08
Nov.06	4203	72200	Office Equipment	Printer	O-06-003	Cannon I90 Printer		250.00	PO%46928-08
Nov.06	4210	72200	Office Equipment	Scanner	O-06-004	Scanner HP Scanjet7650	KRW 653,600	688.00	PO%46928-08
Jun.07	4302	72200	Furniture	Shelves	F-07-001	Shelving units for container	KRW 170,000	184.78	PO%61923-16
Jun.07	4302	72200	Furniture	Container	F-07-002	Container	KRW	1,304.34	PO%61923-

Period	PROJECT EXPENDITURE					EXPENDITURE AMOUNT		Authorizati on	Ref	
	BUDGET LINES	ACCOUNT	ACCOUNT DESCRIPTION			LC	US\$ equi			
						1,200,000		16		
Jun.07	4302	72200	Furniture	Double drawer	F-07-003	TP0312W (420*560*570)	KRW 264,000	286.96	PO%61923- 16	2EA
Jun.07	4302	72200	Furniture	Farmilar Chair	F-07-004	CH2301 (620*595*870~970)	KRW 126,000	136.96	PO%61923- 16	1EA
Jun.07	4302	72200	Furniture	Topline Desk	F-07-005	TD016 (1600*800*720)	KRW 213,000	231.52	PO%61923- 16	1EA
Jun.07	4302	72200	Furniture	L-shape Connector	F-07-003	KF5514 (H:1370)	KRW 19,000	20.65	PO%61923- 16	1EA
Jun.07	4302	72200	Furniture	Partition	F-07-003	KF068W (600*66*1770)	KRW 154,000	167.39	PO%61923- 16	1EA
Jun.07	4302	72200	Furniture	Partition	F-07-003	KF108W (1000*66*1770)	KRW 220,000	239.13	PO%61923- 16	1EA
Jun.07	4302	72200	Furniture	Partition	F-07-003	KF128W (1200*66*1770)	KRW 256,000	278.26	PO%61923- 16	1EA
Jun.07	4302	72200	Furniture	L-shape Connector	F-07-003	KF5118 (H:1770)	KRW 24,000	26.09	PO%61923- 16	1EA
Jun.07	4302	72200	Furniture	Ending Connector	F-07-003	KF6018 (H:1770)	KRW 24,000	26.09	PO%61923- 16	2EA
Jun.07	4302	72200	Furniture	Folding Table	F-07-006	CR9006 (630*525*720)	KRW 260,000	282.61	PO%61923- 16	2EA
<b>Total Amount as of Aug 2007</b>								<b>\$74,169.69</b>		
							IT Equipment	\$24,176.26		
							Furniture	\$13,924.50		
							Vehicle	\$22,881.29		
							Office Equipment	\$13,187.65		
								<b>TRUE</b>		

Period	PROJECT EXPENDITURE				EXPENDITURE AMOUNT		Authorizati on	Ref
	BUDGET LINES	ACCOUNT	ACCOUNT DESCRIPTION		LC	US\$ equi		
Jun.07	4302	72200	Furniture	Svc fee for installation	F-07-001	KRW 330,000	358.70	PO%61923- 16

## Appendix IV

### List of Acronyms

CBA	cost-benefit analysis
CDOM	coloured dissolved organic matter
CKJORC	China-Korea Joint Ocean Research Center
CPR	continuous plankton recorder
DO	dissolved oxygen
DPRK	Democratic People's Republic of Korea
EAS	East Asian Seas
ERP	Enterprise Resource Planning
GEF	Global Environment Facility
GEF IWC-4	GEF's 4 <sup>th</sup> International Waters Conference
GEF/IW:LEARN	GEF/International Waters:Learning Exchange and Resource Network
GIS	geographic information system
IAEA-MEL	International Atomic Energy Agency-Marine Environmental Laboratory
ICES	International Council for the Exploration of the Sea
IMCC	Inter-ministerial Co-ordinating Committee
IUCN	World Conservation Union
KORDI	Korea Ocean Research and Development Institute
LOC	Letter of Co-operation
MOU	Memorandum of Understanding
MTE	mid-term evaluation
NACA	Network of Aquaculture Centres in Asia-Pacific
NGO	Non-Governmental Organisation
NOWPAP	Northwest Pacific Action Plan
NOWPAP RCU	NOWPAP Regional Co-ordinating Unit
NPC	National Project Co-ordinator
NWG	National Working Group
NSAP	National Yellow Sea Action Plan
OC	ocean colour
PEMSEA	Partnerships in Environmental Management for the Seas of East Asia
PMO	Project Management Office
PSA	political and social acceptance
PSC	Project Steering Committee
QA/QC	quality assurance/quality control
QHSS	Queensland Health Scientific Services
ROK	Republic of Korea
RSS	Any format of: Really Simple Syndication (RSS 2.0), <a href="#">RDF</a> Site Summary RSS 1.0 and RSS 0.90), or Rich Site Summary
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
SI	Le Système international d'unités (International System of Units)
SOP	standard operating procedures
TDA	Transboundary Diagnostic Analysis
TSS	total suspended solids
UN	United Nations
UNDP	United Nations Development Programme
WWF	World Wide Fund for Nature
YOC	Yellow Sea ocean colour

YSESP

Yellow Sea Ecoregion Support Project

YSLME

Yellow Sea Large Marine Ecosystem

YSP

Yellow Sea Partnership





Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Total Expenditure JAN_DEC	Yr 2008	Yr 2009
			4302	Furniture	12,740	14,283	-6,123	-4,617	0	-3,543	0	0
			4303	Premises costs	10,000	10,000	0	0	0	0	5,000	5,000
			5101	Rental & maint. of computer equip.	6,000	6,000	0	0	0	0	3,000	3,000
			5102	Rental & maint. of copiers	4,500	3,000	0	0	0	0	1,500	1,500
			5103	Repair & maint. of vehicles & insurance	29,149	27,752	0	-4,088	-3,309	-3,603	8,000	8,752
			5104	Rental & maint. of other office equip	7,500	5,000	0	0	0	0	2,500	2,500
			5105	Rental of meeting rooms & equip.	4,000	4,000	0	0	0	0	2,000	2,000
			5220	Publication (other than reports)	53,001	49,221	0	-5,026	-13,758	-8,220	12,000	10,216
			5221	Webpage design and updating	2,301	2,559	0	-356	-445	-758	500	500
			5301	Communication	58,702	55,100	-6,139	-15,558	-2,041	-1,398	17,500	12,464
			5302	Postage/freight	9,479	17,387	0	-1,456	-5,255	-5,408	5,000	267
			5303	Operation cost	54,480	64,242	-67	-11,550	-22,173	-13,184	9,000	8,269
			5600	UNOPS Project Supporting Cost (6%)	251,783	262,548	-8,268	-42,064	-45,369	-52,654	55,242	58,951
			<b>Sub Total</b>		<b>620,759</b>	<b>635,920</b>	<b>-53,888</b>	<b>-102,128</b>	<b>-110,250</b>	<b>-96,830</b>	<b>150,929</b>	<b>121,894</b>
			<b>0.PMO Total</b>		<b>4,448,160</b>	<b>4,638,361</b>	<b>-146,075</b>	<b>-743,134</b>	<b>-801,527</b>	<b>-930,219</b>	<b>975,944</b>	<b>1,041,462</b>
6.Cross Component	6A	Travel	1501	Project Staff Travel	415,583	417,093	-4,163	-106,226	-60,482	-90,582	77,800	77,840
			1601	Annual Tri Part Review (IVB)	24,000	16,000	0	0	0	0	8,000	8,000
			1602	Interviews/Travel (CTA Prospects) (IVB)	10,879	10,879	-10,879	0	0	0	0	0

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Total Expenditure JAN_DEC	Yr 2008	Yr 2009
	6B	Meeting	3301	Project Steering Committee meetings	125,547	117,107	0	-35,162	-26,366	-13,560	24,019	18,000
			3302	RSTP meetings	163,862	164,114	-9,767	-41,544	-20,925	-25,252	41,625	25,000
			3303	Regional scientific conferences	240,000	185,782	0	0	0	-65,782	0	120,000
	6C	Premises	4208	Sea-going equipment	360,000	360,000	0	-231,940	-8,029	-108,060	11,971	0
			4210	Equipment unspecified	60,549	60,549	0	-1,215	-6,212	-20,000	21,122	12,000
	6D	Contingencies	1223	Other consultant contracts	82,072	59,682	0	-2,072	0	-7,610	25,000	25,000
			2135	Other institutional contracts	362,882	301,882	0	0	-1,500	-54,000	131,382	115,000
			3102	Short term fellowship for training	30,000	20,000	0	0	0	0	10,000	10,000
			3217	Additional training activities	241,438	167,520	0	-1,438	0	-6,082	80,000	80,000
			3335	Additional meetings required	125,224	87,525	0	-5,224	0	-2,301	40,000	40,000
			5219	Printing cost for the additional reports	48,604	36,816	0	-604	0	-212	12,000	24,000
			5401	Exigency costs	312,786	419,042	0	-301	-3,039	-1,908	200,810	212,984
	5501	Evaluation (consultants fees/travel/DSA)	96,000	96,000	0	0	0	-48,000	0	48,000		
5606	UNOPS Project Supporting Cost(6%)	161,966	151,199	-1,489	-25,544	-7,593	-26,601	41,024	48,949			
<b>Sub Total</b>					<b>2,861,393</b>	<b>2,671,190</b>	<b>-26,298</b>	<b>-451,271</b>	<b>-134,146</b>	<b>-469,950</b>	<b>724,753</b>	<b>864,773</b>
<b>6.Cross Component Total</b>					<b>2,861,393</b>	<b>2,671,190</b>	<b>-26,298</b>	<b>-451,271</b>	<b>-134,146</b>	<b>-469,950</b>	<b>724,753</b>	<b>864,773</b>



Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Total Expenditure JAN_DEC	Yr 2008	Yr 2009
			5202	Carrying capacity report	3,894	3,000	0	0	0	-3,000	0	0
			2146	Carrying capacity technical guide line (mariculture)	10,500	10,500	0	0	0	-10,500	0	0
			3338	Regional training for carrying capacity (mariculture)	15,000	13,539	0	0	0	-13,539	0	0
	1C	Mariculture Production	1203	Development of Sustainable Mariculture-Consultant	10,500	10,500	0	0	-4,200	-6,300	0	0
			1701	Mariculture Advisor	74,000	25,000	0	0	-25,000	0	0	0
			NEW	Regional Mariculture Conference	0	49,000	0	0	0	0	24,500	24,500
			NEW	World Aquaculture Society meeting	0	15,000	0	0	0	0	15,000	0
			2105	Institution Contracts to Implement mariculture techniques (Demonstration Projects).	190,000	295,000	0	0	0	0	165,000	130,000
			3202	Reg. training on mariculture techniques	20,000	17,741	0	0	0	-17,741	0	0
			3203	Reg training on disease diagnosis, prevention and control	20,000	18,900	0	0	0	-18,900	0	0
1D	Fisheries Management - Regional Agreements, National Laws & Manage-	1204	Feasibility study on the regional agreement,i.e. FAO code of conduct	7,000	6,018	0	0	-5,600	0	418	0	
		1205	Prepare regional Agreement on Legislation-Consultant	14,000	7,000	0	0	0	0	7,000	0	
		1206	SAP-fisheries-Consultant	14,000	0	0	0	0	0	0	0	

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Total Expenditure JAN_DEC	Yr 2008	Yr 2009	
		ment Plan for Fisheries	2106	Institution Contracts to Implement Reg Fisheries and ecosystem Management / Implementation Plans	180,000	0	0	0	0	0	0	0	
			5203	Publication of regional fisheries agreement	4,000	4,000	0	0	0	-4,000	0	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	17,500	11,200	0	0	0	-11,200	0	0	0
			3308	RWG-F Meeting 5	20,000	20,000	0	0	0	0	20,000	0	0
			3309	RWG-F Meeting 6	20,000	20,000	0	0	0	0	0	0	20,000
	<b>Sub Total</b>					<b>1,114,598</b>	<b>1,315,602</b>	<b>0</b>	<b>-73,139</b>	<b>-89,062</b>	<b>-98,960</b>	<b>799,941</b>	<b>254,500</b>
	1A	Stock assessment	2107	Ship rental	610,000	693,628	0	-45,000	0	-300,000	348,628	0	0
			4207	Equipment for regional survey (f)	40,000	0	0	0	0	0	0	0	0
			3336	2nd & 3rd Technical Meeting for the Cooperative Cruise	10,313	10,524	0	0	-10,524	0	0	0	0
	1F	UNOPS Project Supporting Cost	5303	Operation cost	0	1,042	0	0	-772	-270	0	0	0
			5601	UNOPS Project Supporting Cost(6%)	106,495	121,247	0	-7,088	-6,021	-23,953	68,914	15,270	
	<b>Sub Total</b>					<b>766,807</b>	<b>826,440</b>	<b>0</b>	<b>-52,088</b>	<b>-17,317</b>	<b>-324,223</b>	<b>417,542</b>	<b>15,270</b>
<b>1.Fisheries Total</b>					<b>1,881,405</b>	<b>2,142,042</b>	<b>0</b>	<b>-125,227</b>	<b>-106,379</b>	<b>-423,183</b>	<b>1,217,483</b>	<b>269,770</b>	

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Total Expenditure JAN_DEC	Yr 2008	Yr 2009	
2.Bio-diversity	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	
			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	
			2109	Institution Contracts to Implement Regional Strategy for Conservation Areas	225,000	339,584	0	0	0	0	200,000	139,584	
			NEW	Management effectiveness of reserves (two country reports)	0	30,000	0	0	0	0	30,000	0	
			NEW	Regionsal training for Reserve managers ( 2 meetings in local language)	0	45,000	0	0	0	0	22,500	22,500	
			5204	Review national practices of coastal habitat use, conservation, and restoration-Printing costs	3,000	0	0	0	0	0	0	0	0
			5205	Review of status of vulnerable species and vulnerable trophic linkages-Printing costs	3,000	3,000	0	0	0	-3,000	0	0	
2B	Genetic	1702	Biodiversity Advisor	76,800	10,000	0	0	0	-10,000	0	0		

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Total Expenditure JAN_DEC	Yr 2008	Yr 2009	
		Diversity	<b>NEW</b>	Review of Genetic diversity in fleshy shrimp	0	20,000	0	0	0	0	20,000	0	
			<b>2144</b>	Genetic diversity	41,660	16,059	0	0	0	-14,059	2,000	0	
	2C	Meetings	<b>3310</b>	RWG-B Meeting 1	3,436	3,436	0	-3,436	0	0	0	0	0
			<b>3311</b>	RWG-B Meeting 2	13,055	13,055	0	-13,055	0	0	0	0	0
			<b>3312</b>	RWG-B Meeting 3	8,485	8,485	0	0	-8,485	0	0	0	0
			<b>3313</b>	RWG-B Meeting 4	17,500	10,607	0	0	0	-10,607	0	0	0
			<b>3314</b>	RWG-B Meeting 5	17,500	17,500	0	0	0	0	17,500	0	0
			<b>3315</b>	RWG-B Meeting 6	17,500	17,500	0	0	0	0	0	0	17,500
	<b>Sub Total</b>				<b>495,975</b>	<b>603,265</b>	<b>0</b>	<b>-37,408</b>	<b>-22,985</b>	<b>-71,289</b>	<b>292,000</b>	<b>179,584</b>	
	2C	Meetings	<b>3337</b>	Cross Component Conference (RSTP3)	19,017	0	0	0	0	0	0	0	
	2D	UNOPS Project Supporting Cost	<b>5303</b>	Operation cost	0	234	0	0	-234	0	0	0	0
			<b>5602</b>	UNOPS Project Supporting Cost(6%)	30,900	36,210	0	-2,244	-1,393	-4,277	17,520	10,775	
	<b>Sub Total</b>				<b>49,917</b>	<b>36,444</b>	<b>0</b>	<b>-2,244</b>	<b>-1,627</b>	<b>-4,277</b>	<b>17,520</b>	<b>10,775</b>	
<b>2.Biodiversity Total</b>				<b>545,892</b>	<b>639,709</b>	<b>0</b>	<b>-39,652</b>	<b>-24,612</b>	<b>-75,566</b>	<b>309,520</b>	<b>190,359</b>		

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Total Expenditure JAN_DEC	Yr 2008	Yr 2009
3.Eco-system	3A	Status of Ecosystem	1216	Regional data synthesis - Institution Contracts	13,972	13,072	0	0	-4,200	-8,872	0	0
			1703	Ecosystem Advisor	30,000	1,500	0	0	0	0	1,500	0
			2118	Institution Contracts - Nat'l data & Info collection	89,268	89,268	0	-58,000	-15,331	-15,937	0	0
			2119	Institution Contracts for Demonstration of new and innovative technologies for monitoring (FRRF)	45,000	34,640	0	0	0	-10,000	24,640	0
			3208	Reg training (estimation) on carrying capacity of ecosystem (CPR)	24,446	8,240	0	0	0	-8,240	0	0
			2121	Institution Contracts for cooperative study cruise - ecosystem	260,000	300,000	0	0	0	-140,000	160,000	0
			3334	Regional workshop on remote sensing for monitoring ecosystem	20,000	20,000	0	0	0	-20,000	0	0
			2136	Spring cruise benthos and sediment core	4,683	9,366	0	0	0	-4,683	4,683	0
			2137	Intercalibration	20,000	40,000	0	0	0	-20,000	20,000	0
	3B	Carrying Capacity of Ecosystem	1217	Prepare guidelines for ecosystem carrying capacity-Consultant	10,500	3,000	0	0	0	0	3,000	0
5211			Publish report on carrying capacity-Printing costs	3,000	3,000	0	0	0	-3,000	0	0	

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Total Expenditure JAN_DEC	Yr 2008	Yr 2009	
	3C	Stressors to Ecosystem	1218	ID and rank stresses to ecosystem-Consultant ( regional monitoring)	10,500	10,500	0	0	0	0	10,500	0	
			2120	Institution Contracts to develop long-term sustainable investments & lessen stress to ecosystem	60,000	0	0	0	0	0	0	0	0
			NEW	Demo - Institution contract for jellyfish monitoring	0	150,000	0	0	0	0	0	75,000	75,000
			NEW	Demo - Institution contract for effects of climate change	0	150,000	0	0	0	0	0	75,000	75,000
			5212	Publish reports-Stresses to ecosystem-Printing costs	3,000	3,000	0	0	0	-3,000	0	0	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	17,500	9,249	0	0	0	-9,249	0	0	0
			3326	RWG-E Meeting 5	15,000	15,000	0	0	0	0	15,000	0	0
			3327	RWG-E Meeting 6	17,500	17,500	0	0	0	0	0	0	17,500
	<b>Sub Total</b>				<b>682,353</b>	<b>915,319</b>	<b>0</b>	<b>-81,850</b>	<b>-33,665</b>	<b>-242,981</b>	<b>389,323</b>	<b>167,500</b>	
	3E	UNOPS Project Supporting Cost	5303	Operation cost	0	436	0	0	-436	0	0	0	
			5603	UNOPS Project Supporting Cost(6%)	40,941	54,945	0	-4,911	-2,046	-14,579	23,359	10,050	
	<b>Sub Total</b>				<b>40,941</b>	<b>55,381</b>	<b>0</b>	<b>-4,911</b>	<b>-2,482</b>	<b>-14,579</b>	<b>23,359</b>	<b>10,050</b>	
	<b>3.Ecosystem Total</b>				<b>723,294</b>	<b>970,700</b>	<b>0</b>	<b>-86,761</b>	<b>-36,147</b>	<b>-257,560</b>	<b>412,682</b>	<b>177,550</b>	

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Total Expenditure JAN_DEC	Yr 2008	Yr 2009
4.Pollution	4A	Contaminant Inputs (Critical Spots)	1211	Regional data synthesis - consultant	10,500	10,500	0	0	-1,050	-9,450	0	0
			2111	Institution Contracts - nat'l data & info collection	89,975	105,957	0	-40,000	-15,982	-33,993	15,982	0
			5206	Publish report-reg'l data synthesis-Printing costs	3,000	3,000	0	0	0	-3,000	0	0
			1224	Visiting Scientist Programme	10,000	6,289	0	0	-1,289	0	5,000	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
			2112	Institution Contracts for cooperative study cruise	240,000	224,018	0	0	-20,000	-100,000	104,018	0
			2113	Institution Contracts for Intercalibration exercise (QHSS+IAEA)	22,000	22,000	0	0	-6,532	-15,468	0	0
			3206	Training on contaminant monitoring (phytotoxin)	20,000	20,000	0	0	0	0	20,000	0
			3218	Training Course assessing marine environment quality	15,000	15,000	0	0	0	0	15,000	0
			3219	Level 2 Training Courses (Joint with AMETEC)	17,906	17,906	0	0	0	0	17,906	0

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Total Expenditure JAN_DEC	Yr 2008	Yr 2009
			3339	Intercalibration Summary Workshop	10,000	17,500	0	0	0	-17,500	0	0
			NEW	Institution contract for IC nutrients Rd 3	0	6,711	0	0	0	0	6,711	0
			NEW	Institution contract for IC metals org Rd2	0	25,000	0	0	0	0	25,000	0
	4C	Analysis of the Fate and Transport of Contaminants to Facilitate SAP Analysis	2115	Institution Contracts for Practice & Intercalibration - fate & transport of contaminants	13,555	12,774	0	0	-12,774	0	0	0
	4C	Analysis of the Fate and Transport of Contaminants to Facilitate SAP Analysis	2116	Institution Contracts for ICM actions for controlling discharge of contaminants and nutrients	40,000	0	0	0	0	0	0	0
	4C	Analysis of the Fate and Transport of Contaminants to Facilitate SAP Analysis	5210	Publish report-Fate and transport of contaminants-Printing costs	3,000	3,000	0	0	0	-3,000	0	0
	4D	Regional Strategy Pollution Control	1213	Reg'l synthesis contaminant fate and transport-Consultant(IC)	14,000	11,477	0	0	0	-11,477	0	0
	4D	Regional Strategy Pollution Control	1215	Reg'l investment strategy & imp. plan pollution control - Consultant (IAEA)	14,000	2,312	0	0	0	-2,312	0	0
	4D	Regional Strategy Pollution Control	2114	Institution Contracts to implement regional pollution control strategies	300,000	0	0	0	0	0	0	0

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Total Expenditure JAN_DEC	Yr 2008	Yr 2009
			2117	Institution Contracts to implement contaminant remediation/prevention	40,000	0	0	0	0	0	0	0
			NEW	Experience exchange for LME visit	0	10,000	0	0	0	0	10,000	0
			NEW	Demo - Institution contract for HS nutrient load	0	160,000	0	0	0	0	80,000	80,000
			NEW	Demo - Institution contract for sea-based nutrient source	0	120,000	0	0	0	0	60,000	60,000
			NEW	Demo - Institution contract for atmosphere deposition	0	100,000	0	0	0	0	50,000	50,000
			NEW	Demo - Institution contract for Public awareness	0	50,000	0	0	0	0	25,000	25,000
			NEW	Demo - Institution contract for recreational waters management	0	50,000	0	0	0	0	25,000	25,000
			5207	Publish regional invest. strategy-Printing costs	3,000	3,000	0	0	0	0	0	3,000
			5209	Publish reg'l strategy activity results-Printing costs	3,000	3,000	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
			3317	RWG-P Meeting 2	9,475	9,475	0	-9,475	0	0	0	0
			3318	RWG-P Meeting 3	9,316	9,316	0	0	-9,316	0	0	0
			3319	RWG-P Meeting 4	17,500	9,694	0	0	0	-9,694	0	0
			3320	RWG-P Meeting 5	17,500	17,500	0	0	0	0	17,500	0

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Total Expenditure JAN_DEC	Yr 2008	Yr 2009
			3321	RWG-P Meeting 6	15,000	15,000	0	0	0	0	0	15,000
				<b>Sub Total</b>	<b>961,544</b>	<b>1,084,245</b>	<b>0</b>	<b>-58,492</b>	<b>-71,243</b>	<b>-216,394</b>	<b>480,117</b>	<b>258,000</b>
	4F	UNOPS Project Supporting Cost	5303	Operation cost	0	782	0	0	-782	0	0	0
			5604	UNOPS Project Supporting Cost(6%)	57,693	65,102	0	-3,510	-4,321	-12,984	28,807	15,480
				<b>Sub Total</b>	<b>57,693</b>	<b>65,884</b>	<b>0</b>	<b>-3,510</b>	<b>-5,104</b>	<b>-12,984</b>	<b>28,807</b>	<b>15,480</b>
				<b>4.Pollution Total</b>	<b>1,019,236</b>	<b>1,150,129</b>	<b>0</b>	<b>-62,001</b>	<b>-76,346</b>	<b>-229,378</b>	<b>508,924</b>	<b>273,480</b>

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Total Expenditure JAN_DEC	Yr 2008	Yr 2009
5. Investm ent	5A	Stake-holders & Public Awareness	2123	Institution Contracts for Governance analysis	42,124	42,124	0	0	-42,124	0	0	0
			2145	Regional governance analysis	14,000	14,520	0	0	0	-14,520	0	0
			2124	Institution Contracts for The Yellow Sea and Youth	32,374	32,374	0	0	-8,110	-8,090	8,174	8,000
			2125	Institution Contracts to Organize regular stakeholders conference (1/yr)	8,000	8,000	0	0	0	0	4,000	4,000
			2130	Institution Contracts to Organize public awareness conferences	7,000	7,000	0	0	0	0	3,500	3,500
			2131	Institution Contracts to Prepare public awareness materials	10,000	10,000	0	0	0	-1,160	8,840	0
			NEW	Public awareness assistant	0	15,000	0	0	0	0	15,000	0
			2132	Institution Contracts to Produce multi-media, e.g., project pins, mouse pads, posters, etc.	8,942	8,942	0	0	-8,942	0	0	0
			3101	Intern programme	89,267	89,267	0	0	-14,267	-8,020	42,980	24,000
			3210	Training for decision makers	19,988	19,988	0	0	-19,988	0	0	0
			3211	Training for community trainers	0	0	0	0	0	0	0	0
			3212	Training for local governmental officers	20,012	14,173	0	0	-14,173	0	0	0

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Total Expenditure JAN_DEC	Yr 2008	Yr 2009
			3340	2nd Training for local governmental officers	30,000	21,863	0	0	0	-21,863	0	0
			3216	Public awareness training	6,113	6,113	0	0	-6,113	0	0	0
			5214	Print newsletters	5,000	4,908	0	0	-951	-1,957	1,000	1,000
			2138	Partnership Workshop	166	166	0	0	-166	0	0	0
			3341	2nd Partnership Workshop	9,834	0	0	0	0	0	0	0
			2139	EAS Congress Workshop and Joint Session	13,933	16,654	0	0	-6,593	-3,631	0	6,430
			2140	Parliamentary Workshop	29,391	29,391	0	0	-29,391	0	0	0
			3342	2nd Parliamentary Workshop	25,000	19,793	0	0	0	-19,793	0	0
	5B	TDA & SAP (Regional Coordination)	1219	Prepare TDA-Consultant	30,000	41,028	0	0	-40,003	-1,025	0	0
			1220	Prepare regional SAP-Consultant	21,000	25,000	0	0	0	-10,000	15,000	0
			1706	TDA NPPP	25,000	0	0	0	0	0	0	0
			3343	SAP consultation	20,000	71,929	0	0	0	-51,929	20,000	0
			2126	Institution Contracts to Prepare NYSAP	29,000	99,000	0	0	0	0	99,000	0
			NEW	SAP drafting group	0	45,000	0	0	0	0	45,000	0
			NEW	Special PSC for SAP	0	20,000	0	0	0	0	20,000	0
			NEW	Political social acceptance analysis	0	42,000	0	0	0	0	42,000	0
			NEW	CBA of demonstration	0	130,000	0	0	0	0	62,500	67,500
			5215	Print the final TDA	3,000	4,875	0	0	0	-4,875	0	0
			5216	Print NYSAP	3,000	6,000	0	0	0	0	6,000	0

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Total Expenditure JAN_DEC	Yr 2008	Yr 2009	
			5217	Print regional SAP	3,000	5,000	0	0	0	0	5,000	0	
			2141	Regional valuation guideline	45,110	27,110	0	0	-12,000	-12,110	3,000	0	
			NEW	Case study	0	18,000	0	0	0	0	18,000	0	
	5C	National Coordination (Institutions)	1704	NCU Coordinator (K)	285,000	285,000	0	0	-99,396	-65,604	60,000	60,000	
			1705	NCU Coordinator (C)	165,500	165,500	0	-26,100	-34,800	-34,800	34,800	35,000	
			2127	Institution Contracts to analyse institutional arrangements	0	0	0	0	0	0	0	0	0
			2133	National co-ordinating mechanism (C)	168,720	168,720	0	-26,400	-5,200	-35,580	65,960	35,580	
			2134	National co-ordinating mechanism (K)	49,180	59,497	0	0	0	-38,657	10,420	10,420	
			3213	Training on Project document preparation	21,500	21,500	0	0	0	-18,709	2,791	0	
			3214	Training on Fund raising	20,000	20,000	0	0	0	0	0	20,000	
	5D	Data and Information Management	1222	Develop regional data & info systems-Consultant	7,000	7,000	0	0	0	0	7,000	0	
			1707	DIM Consultants	70,000	70,000	0	0	0	0	60,000	10,000	
			3215	Training on DIM	20,000	20,000	0	0	0	0	20,000	0	
			4103	GIS Software	8,000	8,451	0	0	-8,451	0	0	0	
			4202	GIS workstation	4,253	3,802	0	0	0	0	3,802	0	
			4209	Equipment for DIM	43,418	43,418	0	0	-20,320	0	23,098	0	
			2143	Maintenance of Meta and GIS Databases	40,000	40,000	0	0	0	-15,000	15,000	10,000	
	5E	Meetings	3328	RWG-I Meeting 1	5,634	5,634	0	-5,634	0	0	0	0	

Activity	Sub_Act	Sub_Act_Des	IMIS	IMIS Code Description	Original Budget Total	Revised Budget Total	Yr 2004	Yr 2005	Yr 2006	Total Expenditure JAN_DEC	Yr 2008	Yr 2009
			3329	RWG-I Meeting 2	11,834	11,834	0	-11,834	0	0	0	0
			3330	RWG-I Meeting 3	16,933	16,933	0	0	-16,933	0	0	0
			3331	RWG-I Meeting 4	17,500	19,216	0	0	0	-19,216	0	0
			3332	RWG-I Meeting 5	17,500	17,500	0	0	0	0	17,500	0
			3333	RWG-I Meeting 6	17,500	17,500	0	0	0	0	0	17,500
			<b>Sub Total</b>		<b>1,539,726</b>	<b>1,896,724</b>	<b>0</b>	<b>-69,969</b>	<b>-387,921</b>	<b>-386,539</b>	<b>739,365</b>	<b>312,930</b>
	5F	Financial Sustainability (Instruments)	2129	Demonstration projects on sustainable investment	1,100,000	0	0	0	0	0	0	0
			2142	Small Grants Projects	110,000	157,200	0	0	-26,600	-56,850	73,750	0
	5G	UNOPS Project Supporting Cost	5303	Operation cost	0	4,528	0	0	-4,528	0	0	0
			5605	UNOPS Project Supporting Cost(6%)	164,984	123,507	0	-4,198	-25,143	-26,603	48,787	18,776
			<b>Sub Total</b>		<b>1,374,984</b>	<b>285,235</b>	<b>0</b>	<b>-4,198</b>	<b>-56,271</b>	<b>-83,453</b>	<b>122,537</b>	<b>18,776</b>
	<b>5.Investment Total</b>				<b>2,914,710</b>	<b>2,181,959</b>	<b>0</b>	<b>-74,167</b>	<b>-444,192</b>	<b>-469,992</b>	<b>861,902</b>	<b>331,706</b>
	<b>Grand Total</b>				<b>14,394,090</b>	<b>14,394,091</b>	<b>-172,373</b>	<b>-1,582,213</b>	<b>-1,623,349</b>	<b>-2,855,848</b>	<b>5,011,208</b>	<b>3,149,100</b>

## **Annex VI**

### **Approved Workplan for 2008 and Onwards**

ID	Task Name	Duration	Start	Finish	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>1194 days?</b>	<b>Mon 4/11/05</b>	<b>Fri 10/30/09</b>																				
2	<b>IA: STOCK ASSESSMENT</b>	<b>1167 days?</b>	<b>Mon 4/11/05</b>	<b>Wed 9/23/09</b>																				
3	<b>ACT 1: Review of existing data</b>	<b>417 days</b>	<b>Mon 4/11/05</b>	<b>Thu 11/9/06</b>																				
4	Regional Working Group (WG) Meeting 1	4 days	Mon 4/11/05	Thu 4/14/05																				
5	<u>Contract to relevant national institutions (contract)</u>	101 days	Tue 10/4/05	Mon 2/20/06																				
6	<u>Revise national data and info (contract)-NFRDI-YSFRI</u>	290 days	Tue 10/4/05	Thu 11/9/06																				
7	<b>ACT 2: Diagnosis of Stock Conditions</b>	<b>8 days</b>	<b>Fri 11/10/06</b>	<b>Tue 11/21/06</b>																				
8	Finalisation of data and info at WG Meeting 3	4 days	Fri 11/10/06	Wed 11/15/06																				
9	Inputs to final TDA	4 days	Thu 11/16/06	Tue 11/21/06																				
10	<b>ACT 3: Develop Common methodology of regional stock as</b>	<b>430 days?</b>	<b>Tue 1/3/06</b>	<b>Thu 8/23/07</b>																				
11	<u>Gathering existing methods, prepare suggested methods (c</u>	152 days	Tue 1/3/06	Tue 8/1/06																				
12	Discuss the methods (WG Meeting 3)	4 days?	Tue 8/1/06	Fri 8/4/06																				
13	<u>Revise regional methods (consultant)</u>	95 days	Mon 8/7/06	Fri 12/15/06																				
14	Discuss and modify the methods (WG Meeting 4)	4 days	Mon 8/20/07	Thu 8/23/07																				
15	Finalise the method (WG Meeting 4)	4 days	Mon 8/20/07	Thu 8/23/07																				
16	<b>ACT 4: Perform Demonstration of Joint-Regional Survey</b>	<b>564 days</b>	<b>Wed 10/19/05</b>	<b>Wed 12/12/07</b>																				
17	<b>Winter Survey</b>	<b>564 days</b>	<b>Wed 10/19/05</b>	<b>Wed 12/12/07</b>																				
18	Prepare guidelines for survey (consultant)	80 days	Thu 8/23/07	Wed 12/12/07																				
19	Accept guidelines (Technical Meeting 1 - Qingdao)	2 days	Wed 10/17/07	Thu 10/18/07																				
20	Obtain and Assemble Equipment	54 days	Wed 10/19/05	Fri 12/30/05																				
21	Ship Rental for first Joint Survey	16 days	Wed 1/4/06	Wed 1/25/06																				
22	Analyse survey result (participants of survey)	67 days	Fri 1/27/06	Sun 4/30/06																				
23	Publish survey result (printing)(PMO)	65 days	Mon 5/1/06	Fri 7/28/06																				
24	<b>Spring Survey</b>	<b>178 days</b>	<b>Thu 1/26/06</b>	<b>Fri 9/29/06</b>																				
25	Prepare guidelines for survey (consultant)	1 day	Thu 1/26/06	Thu 1/26/06																				
26	Accept guidelines (Technical Meeting 2 - ?)	2 days	Mon 3/27/06	Tue 3/28/06																				
27	Obtain and Assemble Equipment	25 days	Wed 3/29/06	Mon 5/1/06																				
28	Ship Rental for Second Joint Survey	30 days	Mon 5/1/06	Sat 6/10/06																				
29	Analyse survey result (participants)	80 days	Mon 6/12/06	Fri 9/29/06																				
30	Publish survey result (printing)	22 days	Mon 10/2/06	Tue 10/31/06																				
31	<b>ACT 5: Perform Initial Joint Regional Stock Assessment</b>	<b>773 days</b>	<b>Tue 10/10/06</b>	<b>Wed 9/23/09</b>																				
32	Prepare a plan for stock assessment (Consultant)	114 days	Tue 10/10/06	Thu 3/15/07																				
33	Technical discussion on the plan (WG Meeting 4)	60 days	Wed 8/1/07	Tue 10/23/07																				
34	<u>Implement regional stock assessment</u>	155 days	Tue 8/7/07	Mon 3/10/08																				
35	Discuss results of assessment (WG Meeting 5)	4 days	Fri 8/1/08	Wed 8/6/08																				
36	<u>Additional assessment if necessary (contracts)</u>	261 days	Thu 8/7/08	Thu 8/6/09																				
37	Accept the assessment result (WG Meeting 6)??	4 days	Fri 8/7/09	Wed 8/12/09																				
38	Publication of assessment results (printing)	30 days	Thu 8/13/09	Wed 9/23/09																				
39	<b>ACT 6: Create mechanism for regional multispecies stock a</b>	<b>451 days</b>	<b>Thu 11/17/05</b>	<b>Mon 8/6/07</b>																				
40	Identify major barriers in stock assessment (WG Meeting 2)	4 days	Thu 11/17/05	Mon 11/21/05																				
41	Identify the species to be assessed (WG Meeting 2)	4 days	Thu 11/17/05	Mon 11/21/05																				
42	Prepare draft mechanism for annual assessment (Consultar	131 days	Mon 1/2/06	Fri 6/30/06																				
43	Discuss the draft mechanism (WG Meeting 3)	64 days	Tue 8/1/06	Fri 10/27/06																				
44	<u>Revise the draft mechanism (consultant)</u>	159 days	Tue 8/8/06	Thu 3/15/07																				
45	Finalisation of the mechanism (WG Meeting 4)	4 days	Wed 8/1/07	Mon 8/6/07																				
46	<b>IB: CARRYING CAPACITY</b>	<b>827 days</b>	<b>Thu 9/1/05</b>	<b>Mon 10/27/08</b>																				
47	<b>ACT 1: Review of existing state of knowledge</b>	<b>245 days</b>	<b>Thu 9/1/05</b>	<b>Fri 8/4/06</b>																				
48	<u>Contract to relevant national institutions for assessing infor</u>	101 days	Mon 10/3/05	Fri 2/17/06																				
49	Present at WG Meeting 2	4 days	Thu 11/17/05	Mon 11/21/05																				
50	Revise national state of knowledge	184 days	Sat 11/19/05	Tue 8/1/06																				
51	Finalisation of report (WG Meeting 3)	4 days	Tue 8/1/06	Fri 8/4/06																				
52	Inputs to final TDA	30 days	Thu 9/1/05	Tue 10/11/05																				
53	<b>ACT 2: Fill in knowledge gaps for carrying capacity analysi:</b>	<b>131 days</b>	<b>Mon 1/2/06</b>	<b>Fri 6/30/06</b>																				
54	<u>Prepare guidelines for carrying capacity (consultant)</u>	131 days	Mon 1/2/06	Fri 6/30/06																				
55	<b>Act 3: Perform iterative series of analysis of carrying capac</b>	<b>283 days</b>	<b>Mon 8/7/06</b>	<b>Tue 9/4/07</b>																				
56	<u>Prepare workplan for the analysis (consultant)</u>	25 days	Mon 8/7/06	Fri 9/8/06																				
57	Discuss and agree on the workplan (WG Meeting 4)	4 days	Wed 8/1/07	Mon 8/6/07																				



ID	Task Name	Duration	Start	Finish	2005				2006				2007				2008				2009			
					Q1	Q2	Q3	Q4																
1	<b>OBJECTIVE II: BIODIVERSITY PROTECTION COMPONENT</b>	<b>1062 days?</b>	<b>Tue 4/19/05</b>	<b>Wed 5/6/09</b>																				
2	<b>IIA: HABITAT CONSERVATION AND VULNERABLE SPECIES</b>	<b>972 days?</b>	<b>Tue 4/19/05</b>	<b>#####</b>																				
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 prioritise gaps of regional importance; Identify capacity gaps...</b>	<b>644 days?</b>	<b>Tue 4/19/05</b>	<b>Mon 10/1/07</b>																				
4	WG Meeting 1 (Qingdao)	4 days	Tue 4/19/05	Fri 4/22/05																				
5	Contract to relevant national institution(s) (Contract C1)	155 days	Tue 8/30/05	Fri 3/31/06																				
6	WG Meeting 2	4 days	Wed 11/9/05	Sat 11/12/05																				
7	Finalise national outputs and synthesis	155 days	Tue 8/30/05	Fri 3/31/06																				
8	Consider cross- component meeting with other WGs to discuss trophic linkage outcomes relevant to other WGs	2 days?	Sun 10/15/06	Mon 10/16/06																				
9	Prepare a regional synthesis (consultant C2)	386 days	Fri 2/10/06	Tue 7/31/07																				
10	Present outcomes of national assessment in WG Meeting 3	2 days	Fri 10/20/06	Mon 10/23/06																				
11	Publish the outcomes (printing)	44 days?	Wed 8/1/07	Mon 10/1/07																				
12	Inputs to final TDA	49 days	Tue 10/24/06	Sun 12/31/06																				
13	<b>ACT 2: Develop regionally coordinated strategies of conservation and restoration of habitats and for protection of vulnerable species</b>	<b>758 days?</b>	<b>Fri 2/10/06</b>	<b>Wed 12/31/08</b>																				
14	Prepare draft regional strategy (Consultant C2)	386 days?	Fri 2/10/06	Tue 7/31/07																				
15	Discuss and modify the draft (WG Meeting 3)	2 days	Fri 10/20/06	Mon 10/23/06																				
16	Revise the draft accordingly (C2)	201 days	Tue 10/24/06	Tue 7/31/07																				
17	Finalise strategy (WG Meeting 4)	4 days	Mon 9/3/07	Thu 9/6/07																				
18	Inputs to regional SAP	480 days	Fri 3/2/07	Wed 12/31/08																				
19	<b>ACT 3: Implement regional strategy for conservation areas and the protection of vulnerable species</b>	<b>386 days</b>	<b>Fri 2/10/06</b>	<b>Tue 7/31/07</b>																				
20	Prepare draft implementation plan (consultant C2)	386 days	Fri 2/10/06	Tue 7/31/07																				
21	<b>ACT 4: Implement regional strategy for conservation areas</b>	<b>4 days</b>	<b>Fri 8/1/08</b>	<b>Wed 8/6/08</b>																				
22	Adopt implementation plan (WG Meeting 5)	4 days	Fri 8/1/08	Wed 8/6/08																				
23	<b>ACT 5: Implementation of regionally coordinated strategies for protection of vulnerable species</b>	<b>234 days</b>	<b>Wed 8/1/07</b>	<b>Fri 6/20/08</b>																				
24	Implement the strategy (contract to national focal points C3)	234 days	Wed 8/1/07	Fri 6/20/08																				
25	<b>IIB: GENETIC DIVERSITY - low priority activity, no budget</b>	<b>934 days</b>	<b>Thu 6/9/05</b>	<b>Tue 12/30/08</b>																				
26	<b>ACT 1: Determine situations of genetic degradation of important bio-re</b>	<b>352 days</b>	<b>Mon 5/8/06</b>	<b>Thu 9/6/07</b>																				
27	<a href="#">Meeting to discuss Genetic Diversity at end of RWG3</a>	1 day	Tue 10/24/06	Tue 10/24/06																				
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 gaps [Communicate DIM management consultant]</a>	70 days	Mon 5/8/06	Fri 8/11/06																				
29	<a href="#">Discuss and finalise current status (WG Meeting 4)</a>	4 days	Mon 9/3/07	Thu 9/6/07																				
30	<a href="#">Inputs to TDA</a>	49 days	Tue 10/24/06	Sun 12/31/06																				
31	<b>ACT 2: Develop regional consensus on the requirements for conservation of genetic diversity</b>	<b>934 days</b>	<b>Thu 6/9/05</b>	<b>Tue 12/30/08</b>																				
32	<a href="#">Prepare draft list on conservation of genetic diversity (consultants)</a>	23 days	Mon 5/1/06	Wed 5/31/06																				
33	<a href="#">Training course on genetic techniques [delete this]</a>	44 days	Mon 2/20/06	Thu 4/20/06																				
34	<a href="#">Agree list on genes (WG Meeting 2 delete) (during addition working group meeting)</a>	4 days	Wed 11/9/05	Sat 11/12/05																				
35	<a href="#">Prepare a plan for the conservation (consultant)</a>	140 days	Thu 6/9/05	Tue 12/20/05																				
36	<a href="#">Finalise the plan (WG Meeting 3)</a>	2 days	Fri 10/20/06	Mon 10/23/06																				
37	<a href="#">Input to SAP</a>	480 days	Thu 3/1/07	Tue 12/30/08																				
38	<b>ACT 3: Prepare recommendations for conservation measures</b>	<b>25 days</b>	<b>#####</b>	<b>Fri 1/20/06</b>																				
39	<a href="#">The activities will be incorporated into activity 2</a>	25 days	Mon 12/19/05	Fri 1/20/06																				
40	<b>IIC: EXOTIC (INTRODUCED) SPECIES</b>	<b>971 days?</b>	<b>Tue 4/19/05</b>	<b>Tue 12/30/08</b>																				

ID	Task Name	Duration	Start	Finish	2005				2006				2007				2008				2009			
					Q1	Q2	Q3	Q4																
41	<b>ACT 1: Document introduced exotic species and their pathways, assess impacts and risks</b>	<b>448 days</b>	<b>Tue 4/19/05</b>	<b>Fri 12/29/06</b>																				
42	WG Meeting 1	4 days	Tue 4/19/05	Fri 4/22/05																				
43	Contract to relevant national institution(s) (Contract C1)	155 days	Tue 8/30/05	Fri 3/31/06																				
44	Discuss and modify the draft (WG Meeting 2)	4 days	Wed 11/9/05	Sat 11/12/05																				
45	Revise the draft accordingly	80 days	Thu 6/9/05	Wed 9/28/05																				
46	Finalise the strategy (WG Meeting 3)	2 days	Fri 10/20/06	Mon 10/23/06																				
47	Inputs to TDA	49 days	Tue 10/24/06	Fri 12/29/06																				
48	<b><u>ACT 2: Develop proposals for regulation and control of exotic species - low priority, no budget</u></b>	<b>934 days?</b>	<b>Thu 6/9/05</b>	<b>Tue 12/30/08</b>																				
49	<u>Prepare draft regulation to control exotic species (consultant)</u>	60 days	Thu 6/9/05	Wed 8/31/05																				
50	<u>Discuss the draft (WG Meeting 3)</u>	2 days	Fri 10/20/06	Mon 10/23/06																				
51	<u>Training course on the implementation of the regulation</u>	105 days	Thu 6/9/05	Wed 11/2/05																				
52	<u>Revise the draft accordingly</u>	120 days?	Thu 6/9/05	Tue 11/22/05																				
53	<u>Finalise strategy (WG Meeting 4)</u>	4 days	Wed 8/8/07	Mon 8/13/07																				
54	<u>Submit for approval of governments</u>	99 days	Thu 6/9/05	Tue 10/25/05																				
55	<u>Inputs to regional SAP</u>	480 days	Thu 3/1/07	Tue 12/30/08																				
56	<b><u>ACT 3: Implement strategies for regulation and control of introduction of exotic species, including necessary legal, policy and institutional reforms at national and regional levels - low priority, no budget</u></b>	<b>934 days?</b>	<b>Thu 6/9/05</b>	<b>Tue 12/30/08</b>																				
57	<u>Upon approval, prepare an implementation plan (consultant)</u>	30 days	Thu 6/9/05	Wed 7/20/05																				
58	<u>Implement the regulation</u>	30 days?	Thu 6/9/05	Wed 7/20/05																				
59	<u>Inputs to regional SAP</u>	480 days	Thu 3/1/07	Tue 12/30/08																				
60	<b>IID: SYNTHESIS OF REVIEWS AND DEVELOPMENT OF COORDINATED STRATEGIES</b>	<b>848 days</b>	<b>Fri 2/10/06</b>	<b>Wed 5/6/09</b>																				
61	<b>ACT 1: Synthesize reviews from IIA, B and C</b>	<b>386 days</b>	<b>Fri 2/10/06</b>	<b>Tue 7/31/07</b>																				
62	Consultant to synthesize output from activity HIGH of IIA, IIB, IIC (consultant C2)	386 days	Fri 2/10/06	Tue 7/31/07																				
63	Inputs to final TDA	49 days	Tue 10/24/06	Fri 12/29/06																				
64	<b>ACT 2: Develop coordinated strategy for biodiversity protection</b>	<b>848 days</b>	<b>Fri 2/10/06</b>	<b>Wed 5/6/09</b>																				
65	Synthesize 3 regional strategies and 3 implementation plans to prepare a coordinated regional SAP (consultant C2)	386 days	Fri 2/10/06	Tue 7/31/07																				
66	Discuss and prioritise actions in regional SAP (WG Meeting 5)	4 days	Fri 8/1/08	Wed 8/6/08																				
67	Revsie the draft accordingly	30 days	Fri 8/1/08	Thu 9/11/08																				
68	Finalize strategy (WG Meeting 6?)	4 days	Fri 5/1/09	Wed 5/6/09																				
69	Inputs to regional SAP	480 days	Thu 3/1/07	Tue 12/30/08																				
70	Accept the Regional SAP	480 days	Thu 3/1/07	Tue 12/30/08																				
71	Submit for approval of governments	480 days	Thu 3/1/07	Tue 12/30/08																				
72																								
73	<b>TDA COMPLETE</b>	49 days	Tue 10/24/06	Fri 12/29/06																				
74	<b>SAP COMPLETE</b>	480 days	Thu 3/1/07	Tue 12/30/08																				
75																								
76	<b>Proposed New Activities by 4th RWG-B 2007</b>	<b>254 days?</b>	<b>Wed 9/19/07</b>	<b>Fri 9/5/08</b>																				
77	Biodiversity Advisor and Coastal survey	211 days?	Tue 9/25/07	Mon 7/14/08																				
78	Genetic information website	53 days?	Wed 9/19/07	Fri 11/30/07																				
79	Chinese fleshy shrimp	165 days?	Mon 10/1/07	Thu 5/15/08																				
80	Regional training	131 days?	Wed 1/2/08	Tue 7/1/08																				
81	Analysis of management effectiveness of marine/coastal reserves	99 days?	Wed 12/5/07	Sat 4/19/08																				
82	RWG-B in Yinchuan/Suzhou	3 days?	Wed 9/3/08	Fri 9/5/08																				

ID	Task Name	Duration	Start	Finish	2005				2006				2007				2008				2009			
					Q1	Q2	Q3	Q4																
1	<b>OBJECTIVE III: ECOSYSTEM</b>	<b>1227 days?</b>	<b>Mon 1/3/05</b>	<b>Mon 9/14/09</b>																				
2	<b>IIIA: STATUS OF ECOSYSTEM</b>	<b>781 days?</b>	<b>Mon 1/3/05</b>	<b>Mon 12/31/07</b>																				
3	<b>ACT 1: Prepare state-of-ecosystem reviews and reports (incl. long-term and recent changes)</b>	<b>254 days?</b>	<b>Mon 10/3/05</b>	<b>Thu 9/21/06</b>																				
4	Contract (1) to relevant national institution(s) - collect data & info	130 days	Mon 10/3/05	Fri 3/31/06																				
5	Processing existing raw data	65 days?	Mon 1/2/06	Fri 3/31/06																				
6	Establish a regional editorial group /or use the WG	4 days?	Tue 11/29/05	Fri 12/2/05																				
7	Prepare a draft report (consultant 1)	151 days?	Mon 1/2/06	Mon 7/31/06																				
8	Discuss the draft (WG meeting 2)	4 days?	Tue 11/29/05	Fri 12/2/05																				
9	Revise the draft report (consultant 1)	151 days?	Mon 1/2/06	Mon 7/31/06																				
10	Finalise the draft report (WG meeting 3)	4 days?	Mon 9/18/06	Thu 9/21/06																				
11	<b>ACT 2: Identify data and information gaps and develop strategies for monitoring changing status of ecosystem and its</b>	<b>349 days?</b>	<b>Wed 2/1/06</b>	<b>Mon 6/4/07</b>																				
12	Prepare synthesis of the national assessment, and identify the info gaps (consultant 1)	152 days?	Wed 2/1/06	Thu 8/31/06																				
13	Prepare draft strategy, including: parameters, analysis, intercalibration, data exchange etc. (consultant 1)	152 days?	Wed 2/1/06	Thu 8/31/06																				
14	Discuss the draft (WG meeting 3)	4 days?	Mon 9/18/06	Thu 9/21/06																				
15	Revise the draft	22 days?	Mon 10/2/06	Tue 10/31/06																				
16	Finalise the strategy (WG meeting 4)	2 days	Fri 6/1/07	Mon 6/4/07																				
17	<b>ACT 3: Demonstration of new and innovative technologies for monit</b>	<b>781 days?</b>	<b>Mon 1/3/05</b>	<b>Mon 12/31/07</b>																				
18	Contract (2) to relevant national institution(s)	261 days?	Mon 1/1/07	Mon 12/31/07																				
19	Application of remote sensing	261 days?	Mon 1/1/07	Mon 12/31/07																				
20	Ship-of-opportunities monitoring.	261 days?	Mon 1/1/07	Mon 12/31/07																				
21	<i>Molecular probes - low priority</i>	1 day?	Mon 1/3/05	Mon 1/3/05																				
22	<b>IIIB: CARRYING CAPACITY OF ECOSYSTEM</b>	<b>415 days?</b>	<b>Mon 1/1/07</b>	<b>Thu 7/31/08</b>																				
23	<b>ACT 1: Establish the logistical and data requirements of estimating carrying capacity</b>	<b>198 days?</b>	<b>Wed 10/31/07</b>	<b>Thu 7/31/08</b>																				
24	Contract (1) to relevant national institution(s)	198 days?	Wed 10/31/07	Thu 7/31/08																				
25	Discuss and coordinate with fisheries WG (joint workshop) - already decided to keep separate	3 days?	Wed 10/31/07	Fri 11/2/07																				
26	Decide on the assessment methods of carrying capacity	152 days?	Thu 1/3/08	Thu 7/31/08																				
27	Training on carrying capacity (Estimation of carrying capacity)	152 days?	Thu 1/3/08	Thu 7/31/08																				
28	<b>ACT 2: Conduct a basin-scale survey on lower-trophic level ecosyst</b>	<b>16 days?</b>	<b>Sat 1/5/08</b>	<b>Fri 1/25/08</b>																				
29	Conduct a basin-scale survey on lower-trophic level ecosystem (contract 4)	13 days?	Sat 1/5/08	Fri 1/25/08																				
30	<b>ACT 3: Assess the carrying capacities of the ecosystem under changing human-induced and natural variability</b>	<b>261 days?</b>	<b>Mon 1/1/07</b>	<b>Mon 12/31/07</b>																				
31	Prepare a regional synthesis (consultant 2)	261 days?	Mon 1/1/07	Mon 12/31/07																				
32	Finalisation national outputs and synthesis	261 days?	Mon 1/1/07	Mon 12/31/07																				
33	<b>IIIC: STRESSORS TO THE ECOSYSTEM</b>	<b>1032 days?</b>	<b>Mon 10/3/05</b>	<b>Mon 9/14/09</b>																				

ID	Task Name	Duration	Start	Finish	2005				2006				2007				2008				2009			
					Q1	Q2	Q3	Q4																
34	<b>ACT 1: Identify and rank stresses on the ecosystem; identify data and information gaps</b>	<b>586 days?</b>	<b>Mon 10/3/05</b>	<b>Mon 12/31/07</b>																				
35	Contract (1) to relevant national institution(s)	130 days?	Mon 10/3/05	Fri 3/31/06																				
36	Present outcomes of ranking, data and info in WG meeting 2	4 days?	Tue 11/29/05	Fri 12/2/05																				
37	Prepare a regional synthesis (consultant 3)	152 days?	Wed 2/1/06	Thu 8/31/06																				
38	Finalization of national outputs and synthesis (WG Meeting 3)	4 days?	Mon 9/18/06	Thu 9/21/06																				
39	Publish the outcomes (printing)	66 days?	Mon 10/1/07	Mon 12/31/07																				
40	Inputs to final TDA	110 days?	Mon 7/31/06	Fri 12/29/06																				
41	<b>ACT 2: Identify corrective measures to minimize human-induced str</b>	<b>238 days?</b>	<b>Wed 2/1/06</b>	<b>Fri 12/29/06</b>																				
42	Identify major human induced stresses (contract)	152 days?	Wed 2/1/06	Thu 8/31/06																				
43	Causal chain analysis (contract 1)	110 days?	Mon 7/31/06	Fri 12/29/06																				
44	Identify measures to address the root causes (WG meeting 3)	4 days?	Mon 9/18/06	Thu 9/21/06																				
45	Inputs to final TDA	110 days?	Mon 7/31/06	Fri 12/29/06																				
46	<b>ACT 3: Develop strategy for intercalibration and data exchange (together with co-op cruise)</b>	<b>172 days?</b>	<b>Fri 6/1/07</b>	<b>Fri 1/25/08</b>																				
47	Prepare draft strategy, including: parameters, analysis, intercalibration, data exchange etc.	16 days?	Sat 1/5/08	Fri 1/25/08																				
48	Discussion the draft (WG meeting 4)	2 days	Fri 6/1/07	Mon 6/4/07																				
49	Revise the draft	45 days?	Mon 7/2/07	Fri 8/31/07																				
50	Finalise the strategy (WG meeting4)	2 days?	Fri 6/1/07	Mon 6/4/07																				
51	<b>ACT 4: Develop strategy to identify long-term sustainable investments to improve the YSLME</b>	<b>684 days?</b>	<b>Thu 2/1/07</b>	<b>Mon 9/14/09</b>																				
52	Prepare a format for nat'l strategy-PMO	143 days?	Thu 2/1/07	Mon 8/20/07																				
53	Prepare national strategy (contract 3)	143 days?	Thu 2/1/07	Mon 8/20/07																				
54	Discussing national stratgey (WG Meeting 5)	3 days	Tue 9/23/08	Thu 9/25/08																				
55	Revise national strategy (contract 3)	143 days?	Thu 2/1/07	Mon 8/20/07																				
56	Prepare regional draft strategy (consultant 3)	143 days?	Thu 2/1/07	Mon 8/20/07																				
57	Finalise natl strategy (WG mtg 5)	3 days	Tue 9/23/08	Thu 9/25/08																				
58	Discuss reg. strategy (WG mtg 5)	3 days	Tue 9/23/08	Thu 9/25/08																				
59	Finalise reg strategy (WG meeting 6)	177 days	Thu 2/1/07	Fri 10/5/07																				
60	Inputs to natl & reg SAP	500 days?	Thu 2/1/07	Tue 12/30/08																				
61	Implement SAP (PILOT PROJECTS)	446 days?	Tue 1/1/08	Mon 9/14/09																				
62																								
63	<b>New Activities</b>	18 days?	Thu 1/3/08	Fri 1/25/08																				
64	CPR Survey 2 with cruise	16 days?	Sat 1/5/08	Fri 1/25/08																				
65	CPR Survey 2 with cruise	24 days?	Tue 7/1/08	Fri 8/1/08																				
66	Primary productivity estimation	152 days?	Thu 1/3/08	Thu 7/31/08																				
67	Drafting Guidelines for Ecosystem monitoring	117 days?	Mon 10/22/07	Mon 3/31/08																				

ID	Task Name	Duration	Start	Finish	2005				2006				2007				2008				2009			
					Q1	Q2	Q3	Q4																
1	<b>OBJECTIVE IV: POLLUTION</b>	<b>1158 days?</b>	<b>Mon 4/11/05</b>	<b>Tue 9/15/09</b>																				
2	<b>IVA: CRITICAL SPOTS</b>	<b>347 days?</b>	<b>Thu 9/1/05</b>	<b>Sun 12/31/06</b>																				
3	<b>ACT 1: Determine and rank critical spot sources of water quality degradatic</b>	<b>347 days?</b>	<b>Thu 9/1/05</b>	<b>Sun 12/31/06</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)	152 days?	Thu 9/1/05	Fri 3/31/06																				
5	Develop technologies for monitoring contaminants and nutrients (contract 1)	152 days	Thu 9/1/05	Fri 3/31/06																				
6	Present outcomes of ranking, data and info in WG meeting 2	4 days	Tue 10/25/05	Fri 10/28/05																				
7	Prepare a regional synthesis (consultant 1)	120 days	Thu 12/1/05	Wed 5/17/06																				
8	Finalise national outputs and synthesis (WG meeting 3)	4 days?	Mon 9/4/06	Thu 9/7/06																				
9	Publish the outcomes (printing)	22 days?	Fri 9/8/06	Mon 10/9/06																				
10	Inputs to final TDA	282 days?	Thu 12/1/05	Sun 12/31/06																				
11	<b>IVB: CONTAMINANT LEVELS</b>	<b>602 days?</b>	<b>Mon 4/11/05</b>	<b>Tue 7/31/07</b>																				
12	<b>ACT 1: Develop baseline data and summarize contaminant and nutrient levels in the YSLME</b>	<b>372 days?</b>	<b>Thu 9/1/05</b>	<b>Sat 2/3/07</b>																				
13	Review existing data & info on contaminant levels (contract 1)	152 days	Thu 9/1/05	Fri 3/31/06																				
14	Data quality control for baseline data WG meeting 2	4 days	Tue 10/25/05	Fri 10/28/05																				
15	Present outcomes of ranking, data and info in WG meeting 2	232 days?	Tue 10/25/05	Wed 9/13/06																				
16	<u>Environmental Survey with other working groups (if not, need ship time)</u>	15.5 days?	Fri 9/1/06	Sat 9/30/06																				
17	<u>Environmental Survey with other working groups - winter</u>	22 days?	Thu 1/4/07	Sat 2/3/07																				
18	Prepare a regional synthesis (consultant 1)	120 days	Thu 12/1/05	Wed 5/17/06																				
19	Finalise national outputs and synthesis (WG meeting 3)	4 days?	Mon 9/4/06	Thu 9/7/06																				
20	Inputs to final TDA	325 days?	Mon 10/3/05	Fri 12/29/06																				
21	<b>ACT 2: Develop regional monitoring network strategy</b>	<b>602 days?</b>	<b>Mon 4/11/05</b>	<b>Tue 7/31/07</b>																				
22	Establish a monitoring network / or use the existing ones (PMO)	103 days?	Mon 4/11/05	Wed 8/31/05																				
23	Draft monitoring guidelines / standards (consultant 2)	88 days?	Wed 8/31/05	Sat 12/31/05																				
24	Agree on the guidelines / standards (WG Meeting 3)	4 days?	Mon 9/4/06	Thu 9/7/06																				
25	Intercalibration exercise of participating labs (Contract 3)	412 days?	Thu 12/1/05	Sat 6/30/07																				
26	Development of indicators to assess the implementation of relevant international conventions (consultant 2)	152 days?	Mon 1/1/07	Tue 7/31/07																				
27	<b>ACT 3: Develop funding mechanism to implement the monitoring strategy</b>	<b>370 days?</b>	<b>Mon 8/1/05</b>	<b>Fri 12/29/06</b>																				
28	Prepare format for data & info collection (PMO), no need to rank the spots	55 days?	Mon 8/1/05	Sat 10/15/05																				
29	Identification of hot spots (contract 1)	152 days?	Thu 9/1/05	Fri 3/31/06																				
30	Contract to relevant national institution(s) to collect hot spots data and information (contract 1)	152 days?	Thu 9/1/05	Fri 3/31/06																				
31	Discussion & further requirements (WG meeting 2)	118 days?	Tue 10/25/05	Thu 4/6/06																				
32	Revise the hot spots data & info (contract 1)	152 days?	Thu 9/1/05	Fri 3/31/06																				
33	Inputs to final TDA	325 days?	Mon 10/3/05	Fri 12/29/06																				
34	<b>IVC: Analysis of the Fate and Transport of Contaminants to Facilitate SAP Anal</b>	<b>586 days?</b>	<b>Mon 10/3/05</b>	<b>Mon 12/31/07</b>																				
35	<b>ACT 1: Review existing understanding of fate and transport of contaminants and nutrients</b>	<b>480 days?</b>	<b>Mon 10/3/05</b>	<b>Sat 8/4/07</b>																				
36	Review existing understanding (contract 1) (workshop)	2 days?	Thu 8/31/06	Sat 9/2/06																				
37	Present outcomes of reviewing from national outputs in WG meeting 3	4 days?	Mon 9/4/06	Thu 9/7/06																				
38	Prepare a regional synthesis (consultant 3) - TBD	85 days?	Mon 1/2/06	Fri 4/28/06																				
39	Finalise national outputs and synthesis (WG meeting 4)	3 days?	Wed 8/1/07	Sat 8/4/07																				
40	Practice & intercalibration of the procedure (contract 4) - TBD	110 days?	Mon 5/1/06	Sat 9/30/06																				
41	Publish the outcomes (printing)	22 days?	Mon 10/2/06	Tue 10/31/06																				



ID	Task Name	Duration	2007					2008					2009														
			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>	<b>1318 days?</b>																									
2	<b>VA. Stakeholders</b>	<b>1305 days?</b>																									
3	<b>ACT 1: Identify stakeholders and assess their capacities for contributing to environmental management and decision-making</b>	<b>137 days?</b>																									
4	Contract to institutions(experts)(Contract)--Governance Analysis	132 days?																									
5	Produce a regional list (PMO)	5 days?																									
6	<b>ACT 2: Strengthen stakeholder capacities</b>	<b>1011 days?</b>																									
7	Prepare training materials for all stakeholders (contract)	761 days?																									
8	Training for decision makers (Training 1)--Local Government Training in China	3 days?																									
9	Training for community trainers (Training 2)--Small grants	2 days?																									
10	Training for local governmental officers (Training 3)--Local Government Training 1	3 days?																									
11	Intern programme--Full time & voluntary	1002 days?																									
12	Site visits by government officials--Local Government Training in ROK	1 day																									
13	"The Yellow Sea and Youth"--Youth Programme	10 days																									
14	<b>ACT 3: Encourage routine and effective involvement of stakeholders in environmental and resource management and decision-making</b>	<b>1305 days?</b>																									
15	Publish newsletters of the project	1305 days?																									
16	Printing newsletters	1305 days?																									
17	Regular stakeholders conference (1/yr)--YSP regular meetings	4 days?																									
18	<b>VB. Regional Coordination</b>	<b>1317 days?</b>																									
19	<b>ACT 1: Create a functioning regional coordination mechanism to carry out the YSLME Project</b>	<b>65 days?</b>																									
20	Programme Coordinator	65 days?																									
21	Economist	65 days?																									
22	Scientific Officer	65 days?																									
23	Public Advisor	65 days?																									
24	Local Staff at PMO:	65 days?																									
25	Secretary	65 days?																									
26	Driver	65 days?																									
27	Administrative Assistant	65 days?																									
28	Administrative Officer	65 days?																									
29	IT Supporting staff	65 days?																									
30	<b>ACT 2: Prepare TDA</b>	<b>136 days?</b>																									
31	Review preliminary TDA, and suggest improvements (consultant)	4 days?																									
32	Discuss draft, and decide new format (WG meeting 3)	3 days?																									
33	Gathering data & info from national review report on the project components (PMO)	13 days?																									
34	Second draft of TDA (consultant)	21 days?																									
35	2nd discussion on the draft (RSTP, PSC)	4 days?																									
36	Revise the TDA	16 days?																									
37	Finalise TDA	16 days?																									
38	Printing the final TDA	19 days?																									
39	<b>Act 3: Prepare Regional SAP</b>	<b>354 days?</b>																									
40	Guideline for cost-benefit analysis	200 days																									
41	Prepare a draft regional SAP (consultant)	20 days																									



ID	Task Name	Duration	2007												2008												2009											
			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
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 NYSAPs</b>	201 days?																																				
82	Prepare draft proposal (consultant)--Financial Sustainability, SAP Drafting Group	86 days?																																				
83	PSC to discuss	5 days																																				
84	<b>ACT 4: Provide matched fund for small grant project</b>	794 days?																																				
85	Identify the topics of small grant project (PMO)	66 days?																																				
86	Provide matched funds for the approved projects (contracts )	725 days?																																				
87	Matched grants	725 days?																																				
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 (Priority Investment Portfolio)</b>	613 days?																																				
89	Prepare pre-feasibility studies (consultant)-Technical F/S	66 days?																																				
90	Discuss & finalise pre-feasibility study(WG meeting, RSTP)	54 days?																																				
91	Submit to PSC for approval	2 days?																																				
92	Demonstration projects (contracts)--Demonstration on sustainable investment	350 days																																				
93	<b>VE: DATA AND INFORMATION MANAGEMENT</b>	1318 days?																																				
94	<b>ACT 1: Determine regional data and information management capabilities</b>	216 days?																																				
95	Review regional data & info systems, i.e. regional data centre, NEAR-GOOS, NOWPAP DINRAC, (consultant)	129 days?																																				
96	Prepare a proposal for DIM (consultant)	87 days?																																				
97	<b>ACT 2: Develop an effective regional DIM strategy to help achieve the goals of the YSLME</b>	1318 days?																																				
98	Decide where database should be hosted	130 days?																																				
99	Discuss and approve DIM proposal, including guidelines (WG meeting 2, PSC)	25 days																																				
100	Equipment (GIS software, hardware)	109 days?																																				
101	Training on DIM--Technical workshop	2 days?																																				
102	Operation of DIM	875 days																																				
103	<b>ACT 3: Implement the regional DIM strategy, including equipment, facilities, and communications</b>	79 days?																																				
104	To identify sustainable means for the DIM	79 days?																																				
105	<b>VF: Public Awareness and Participation</b>	1317 days?																																				
106	<b>ACT 1: Develop a public awareness campaign</b>	444 days?																																				
107	Preparation of public awareness campaign (PMO)--Public Awareness Strategy	326 days?																																				
108	Agree on the campaign (WG meeting 3)	3 days																																				
109	<b>ACT 2: Demonstrate regional public awareness/participation campaign</b>	517 days?																																				
110	Organise public awareness conferences (contracts)--Parliamentary Conference	5 days																																				
111	Prepare public awareness materials (Contracts)	174 days?																																				
112	Produce multi-media, e.g. project pins, mouse pads, posters, etc.	174 days																																				
113	Public awareness training-twice	1 day																																				
114	<b>ACT 3: Encourage ongoing public awareness and participation activities to help achieve the goals of the YSLME</b>	1305 days?																																				
115		1305 days?																																				