



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

UNDP/GEF/YS/RSP.4/12
Date: 14 November 2007
English only

**Fourth Meeting of the Regional Scientific and Technical Panel
for the UNDP/GEF Yellow Sea Project**
Guangzhou, China, 26-28 November 2007

Proposed Workplan for 2008

Following the outcomes from the fourth round of Regional Working Group Meetings and suggestions for future activities, the revised project workplan for the Biodiversity, Ecosystem, Fisheries, Investment, and Pollution Components for 2008 and onwards are attached herewith.

New activities proposed by the RWGs are shown at the bottom of each component's workplan.

Subject to the availability of project budget, the proposed new activities for the RSTP to consider are listed below:

POLLUTION COMPONENT:

- Capacity building on analysis of nutrients, metals, and organics and phytotoxins
- Experience exchange with other LMEs

BIODIVERSITY COMPONENT:

- Technical training for conservation management
- Assessment of management effectiveness of reserves
- Genetic diversity in shrimp population for re-stocking

ECOSYSTEM COMPONENT:

- CPR survey #2
- Primary productivity estimation with respect to carrying capacity*

INVESTMENT COMPONENT:

- Small Grants Programme 2008
- Political and social acceptance of management actions (feasibility studies)
- Technical workshop on data information management

* This activity is not new, but is slightly revised from the original plan, based on recommendations from the RWG-E.

FISHERIES COMPONENT:

- Regional stock assessment and expert consultations*
- Young scientist exchange programme
- Regional Mariculture Conference
- World Aquaculture Society Meeting

All components suggested some SAP demonstration activities to be carried out from 2008 to 2009. These are not considered new activities, as they are already included in the Project Implementation Plan, and are listed in the workplans. The reader may refer to each component's 4th RWG Meeting report for details on these suggested activities.

The RSTP is requested to review the workplan, suggest changes, and submit the 2008 Workplan to the Project Steering Committee for approval at its fourth meeting.

* This activity is not new, but is slightly revised from the original plan, based on recommendations from the RWG-F.

ID	Task Name	Duration	Start	Finish	1st Half		2nd Half		1st Half		2nd Half		1st Half		2nd Half		1st Half		2nd Half					
					Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
1	OBJECTIVE I: FISHERIES COMPONENT	1194 days?	Mon 4/11/05	Fri 10/30/09																				
2	IA: STOCK ASSESSMENT	1167 days?	Mon 4/11/05	Wed 9/23/09																				
3	ACT 1: Review of existing data	417 days	Mon 4/11/05	Thu 11/9/06																				
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	ACT 2: Diagnosis of Stock Conditions	8 days	Fri 11/10/06	Tue 11/21/06																				
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	ACT 3: Develop Common methodology of regional stock as	430 days?	Tue 1/3/06	Thu 8/23/07																				
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	ACT 4: Perform Demonstration of Joint-Regional Survey	564 days	Wed 10/19/05	Wed 12/12/07																				
17	Winter Survey	564 days	Wed 10/19/05	Wed 12/12/07																				
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	Spring Survey	178 days	Thu 1/26/06	Fri 9/29/06																				
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	ACT 5: Perform Initial Joint Regional Stock Assessment	773 days	Tue 10/10/06	Wed 9/23/09																				
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	ACT 6: Create mechanism for regional multispecies stock a	451 days	Thu 11/17/05	Mon 8/6/07																				
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	IB: CARRYING CAPACITY	827 days	Thu 9/1/05	Mon 10/27/08																				
47	ACT 1: Review of existing state of knowledge	245 days	Thu 9/1/05	Fri 8/4/06																				
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	ACT 2: Fill in knowledge gaps for carrying capacity analysi:	131 days	Mon 1/2/06	Fri 6/30/06																				
54	<u>Prepare guidelines for carrying capacity (consultant)</u>	131 days	Mon 1/2/06	Fri 6/30/06																				
55	Act 3: Perform iterative series of analysis of carrying capac	283 days	Mon 8/7/06	Tue 9/4/07																				
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	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1	OBJECTIVE II: BIODIVERSITY PROTECTION COMPONENT	1062 days?	Tue 4/19/05	Wed 5/6/09																				
2	IIA: HABITAT CONSERVATION AND VULNERABLE SPECIES	972 days?	Tue 4/19/05	#####																				
3	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...	644 days?	Tue 4/19/05	Mon 10/1/07																				
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	ACT 2: Develop regionally coordinated strategies of conservation and restoration of habitats and for protection of vulnerable species	758 days?	Fri 2/10/06	Wed 12/31/08																				
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	ACT 3: Implement regional strategy for conservation areas and the protection of vulnerable species	386 days	Fri 2/10/06	Tue 7/31/07																				
20	Prepare draft implementation plan (consultant C2)	386 days	Fri 2/10/06	Tue 7/31/07																				
21	ACT 4: Implement regional strategy for conservation areas	4 days	Fri 8/1/08	Wed 8/6/08																				
22	Adopt implementation plan (WG Meeting 5)	4 days	Fri 8/1/08	Wed 8/6/08																				
23	ACT 5: Implementation of regionally coordinated strategies for protection of vulnerable species	234 days	Wed 8/1/07	Fri 6/20/08																				
24	Implement the strategy (contract to national focal points C3)	234 days	Wed 8/1/07	Fri 6/20/08																				
25	IIB: GENETIC DIVERSITY - low priority activity, no budget	934 days	Thu 6/9/05	Tue 12/30/08																				
26	ACT 1: Determine situations of genetic degradation of important bio-re	352 days	Mon 5/8/06	Thu 9/6/07																				
27	Meeting to discuss Genetic Diversity at end of RWG3	1 day	Tue 10/24/06	Tue 10/24/06																				
28	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]	70 days	Mon 5/8/06	Fri 8/11/06																				
29	Discuss and finalise current status (WG Meeting 4)	4 days	Mon 9/3/07	Thu 9/6/07																				
30	Inputs to TDA	49 days	Tue 10/24/06	Sun 12/31/06																				
31	ACT 2: Develop regional consensus on the requirements for conservation of genetic diversity	934 days	Thu 6/9/05	Tue 12/30/08																				
32	Prepare draft list on conservation of genetic diversity (consultants)	23 days	Mon 5/1/06	Wed 5/31/06																				
33	Training course on genetic techniques [delete this]	44 days	Mon 2/20/06	Thu 4/20/06																				
34	Agree list on genes (WG Meeting 2 delete) (during addition working group meeting)	4 days	Wed 11/9/05	Sat 11/12/05																				
35	Prepare a plan for the conservation (consultant)	140 days	Thu 6/9/05	Tue 12/20/05																				
36	Finalise the plan (WG Meeting 3)	2 days	Fri 10/20/06	Mon 10/23/06																				
37	Input to SAP	480 days	Thu 3/1/07	Tue 12/30/08																				
38	ACT 3: Prepare recommendations for conservation measures	25 days	#####	Fri 1/20/06																				
39	The activities will be incorporated into activity 2	25 days	Mon 12/19/05	Fri 1/20/06																				
40	IIC: EXOTIC (INTRODUCED) SPECIES	971 days?	Tue 4/19/05	Tue 12/30/08																				

ID	Task Name	Duration	Start	Finish	2005				2006				2007				2008				2009			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
41	ACT 1: Document introduced exotic species and their pathways, assess impacts and risks	448 days	Tue 4/19/05	Fri 12/29/06																				
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	<u>ACT 2: Develop proposals for regulation and control of exotic species - low priority, no budget</u>	934 days?	Thu 6/9/05	Tue 12/30/08																				
49	Prepare draft regulation to control exotic species (consultant)	60 days	Thu 6/9/05	Wed 8/31/05																				
50	Discuss the draft (WG Meeting 3)	2 days	Fri 10/20/06	Mon 10/23/06																				
51	Training course on the implementation of the regulation	105 days	Thu 6/9/05	Wed 11/2/05																				
52	Revise the draft accordingly	120 days?	Thu 6/9/05	Tue 11/22/05																				
53	Finalise strategy (WG Meeting 4)	4 days	Wed 8/8/07	Mon 8/13/07																				
54	Submit for approval of governments	99 days	Thu 6/9/05	Tue 10/25/05																				
55	Inputs to regional SAP	480 days	Thu 3/1/07	Tue 12/30/08																				
56	<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>	934 days?	Thu 6/9/05	Tue 12/30/08																				
57	Upon approval, prepare an implementation plan (consultant)	30 days	Thu 6/9/05	Wed 7/20/05																				
58	Implement the regulation	30 days?	Thu 6/9/05	Wed 7/20/05																				
59	Inputs to regional SAP	480 days	Thu 3/1/07	Tue 12/30/08																				
60	IID: SYNTHESIS OF REVIEWS AND DEVELOPMENT OF COORDINATED STRATEGIES	848 days	Fri 2/10/06	Wed 5/6/09																				
61	ACT 1: Synthesize reviews from IIA, B and C	386 days	Fri 2/10/06	Tue 7/31/07																				
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	ACT 2: Develop coordinated strategy for biodiversity protection	848 days	Fri 2/10/06	Wed 5/6/09																				
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	TDA COMPLETE	49 days	Tue 10/24/06	Fri 12/29/06																				
74	SAP COMPLETE	480 days	Thu 3/1/07	Tue 12/30/08																				
75																								
76	Proposed New Activities by 4th RWG-B 2007	254 days?	Wed 9/19/07	Fri 9/5/08																				
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	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1	OBJECTIVE III: ECOSYSTEM	1227 days?	Mon 1/3/05	Mon 9/14/09																				
2	IIIA: STATUS OF ECOSYSTEM	781 days?	Mon 1/3/05	Mon 12/31/07																				
3	ACT 1: Prepare state-of-ecosystem reviews and reports (incl. long-term and recent changes)	254 days?	Mon 10/3/05	Thu 9/21/06																				
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	ACT 2: Identify data and information gaps and develop strategies for monitoring changing status of ecosystem and its	349 days?	Wed 2/1/06	Mon 6/4/07																				
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	ACT 3: Demonstration of new and innovative technologies for monit	781 days?	Mon 1/3/05	Mon 12/31/07																				
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	IIIB: CARRYING CAPACITY OF ECOSYSTEM	415 days?	Mon 1/1/07	Thu 7/31/08																				
23	ACT 1: Establish the logistical and data requirements of estimating carrying capacity	198 days?	Wed 10/31/07	Thu 7/31/08																				
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	ACT 2: Conduct a basin-scale survey on lower-trophic level ecosyst	16 days?	Sat 1/5/08	Fri 1/25/08																				
29	Conduct a basin-scale survey on lower-trophic level ecosystem (contract 4)	13 days?	Sat 1/5/08	Fri 1/25/08																				
30	ACT 3: Assess the carrying capacities of the ecosystem under changing human-induced and natural variability	261 days?	Mon 1/1/07	Mon 12/31/07																				
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	IIIC: STRESSORS TO THE ECOSYSTEM	1032 days?	Mon 10/3/05	Mon 9/14/09																				

ID	Task Name	Duration	Start	Finish	2005				2006				2007				2008				2009			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
34	ACT 1: Identify and rank stresses on the ecosystem; identify data and information gaps	586 days?	Mon 10/3/05	Mon 12/31/07																				
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	ACT 2: Identify corrective measures to minimize human-induced str	238 days?	Wed 2/1/06	Fri 12/29/06																				
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	ACT 3: Develop strategy for intercalibration and data exchange (together with co-op cruise)	172 days?	Fri 6/1/07	Fri 1/25/08																				
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	ACT 4: Develop strategy to identify long-term sustainable investments to improve the YSLME	684 days?	Thu 2/1/07	Mon 9/14/09																				
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	New Activities	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	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1	OBJECTIVE IV: POLLUTION	1158 days?	Mon 4/11/05	Tue 9/15/09																				
2	IVA: CRITICAL SPOTS	347 days?	Thu 9/1/05	Sun 12/31/06																				
3	ACT 1: Determine and rank critical spot sources of water quality degradatic	347 days?	Thu 9/1/05	Sun 12/31/06																				
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	IVB: CONTAMINANT LEVELS	602 days?	Mon 4/11/05	Tue 7/31/07																				
12	ACT 1: Develop baseline data and summarize contaminant and nutrient levels in the YSLME	372 days?	Thu 9/1/05	Sat 2/3/07																				
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	ACT 2: Develop regional monitoring network strategy	602 days?	Mon 4/11/05	Tue 7/31/07																				
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	ACT 3: Develop funding mechanism to implement the monitoring strategy	370 days?	Mon 8/1/05	Fri 12/29/06																				
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	IVC: Analysis of the Fate and Transport of Contaminants to Facilitate SAP Anal	586 days?	Mon 10/3/05	Mon 12/31/07																				
35	ACT 1: Review existing understanding of fate and transport of contaminants and nutrients	480 days?	Mon 10/3/05	Sat 8/4/07																				
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	Start	Finish	2007												2008												2009											
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	OBJECTIVE V: DEVELOPMENT OF REGIONAL INSTITUTIONS AND CAPA	1318 days?	Fri 12/31/04	Thu 12/31/09																																				
2	VA. Stakeholders	1305 days?	Mon 1/3/05	Tue 12/15/09																																				
3	ACT 1: Identify stakeholders and assess their capacities for contributing to environmental management and	137 days?	Wed 3/1/06	Thu 9/7/06																																				
4	Contract to institutions (experts) (Contract)--Governance Analysis	132 days?	Wed 3/1/06	Thu 8/31/06																																				
5	Produce a regional list (PMO)	5 days?	Fri 9/1/06	Thu 9/7/06																																				
6	ACT 2: Strengthen stakeholder capacities	1011 days?	Thu 2/16/06	Tue 12/15/09																																				
7	Prepare training materials for all stakeholders (contract)	761 days?	Thu 2/16/06	Wed 12/31/08																																				
8	Training for decision makers (Training 1)--Local Government Tra	3 days?	Tue 7/10/07	Thu 7/12/07																																				
9	Training for community trainers (Training 2)--Small grants	2 days?	Mon 9/3/07	Tue 9/4/07																																				
10	Training for local governmental officers (Training 3)--Local Gove	3 days?	Mon 9/25/06	Wed 9/27/06																																				
11	Intern programme--Full time & voluntary	1002 days?	Wed 3/1/06	Tue 12/15/09																																				
12	Site visits by government officials--Local Government Training in	1 day	Wed 9/27/06	Wed 9/27/06																																				
13	"The Yellow Sea and Youth"--Youth Programme	10 days	Thu 9/14/06	Fri 8/8/08																																				
14	ACT 3: Encourage routine and effective involvement of stakeholders in environmental and resource management	1305 days?	Mon 1/3/05	Tue 12/15/09																																				
15	Publish newsletters of the project	1305 days?	Mon 1/3/05	Tue 12/15/09																																				
16	Printing newsletters	1305 days?	Mon 1/3/05	Tue 12/15/09																																				
17	Regular stakeholders conference (1/yr)--YSP regular meetings	4 days?	Wed 3/15/06	Fri 10/24/08																																				
18	VB. Regional Coordination	1317 days?	Mon 1/3/05	Thu 12/31/09																																				
19	ACT 1: Create a functioning regional coordination mechanism to carry out the YSLME Project	65 days?	Mon 1/3/05	Fri 4/1/05																																				
20	Programme Coordinator	65 days?	Mon 1/3/05	Fri 4/1/05																																				
21	Economist	65 days?	Mon 1/3/05	Fri 4/1/05																																				
22	Scientific Officer	65 days?	Mon 1/3/05	Fri 4/1/05																																				
23	Public Advisor	65 days?	Mon 1/3/05	Fri 4/1/05																																				
24	Local Staff at PMO:	65 days?	Mon 1/3/05	Fri 4/1/05																																				
25	Secretary	65 days?	Mon 1/3/05	Fri 4/1/05																																				
26	Driver	65 days?	Mon 1/3/05	Fri 4/1/05																																				
27	Administrative Assistant	65 days?	Mon 1/3/05	Fri 4/1/05																																				
28	Administrative Officer	65 days?	Mon 1/3/05	Fri 4/1/05																																				
29	IT Supporting staff	65 days?	Mon 1/3/05	Fri 4/1/05																																				
30	ACT 2: Prepare TDA	136 days?	Tue 8/1/06	Wed 1/31/07																																				
31	Review preliminary TDA, and suggest improvements (consultant)	4 days?	Tue 8/1/06	Fri 8/4/06																																				
32	Discuss draft, and decide new format (WG meeting 3)	3 days?	Sat 9/9/06	Tue 9/12/06																																				
33	Gathering data & info from national review report on the project components (PMO)	13 days?	Thu 9/14/06	Sat 9/30/06																																				
34	Second draft of TDA (consultant)	21 days?	Tue 10/3/06	Tue 10/31/06																																				
35	2nd discussion on the draft (RSTP, PSC)	4 days?	Thu 11/16/06	Tue 11/21/06																																				
36	Revise the TDA	16 days?	Fri 11/24/06	Fri 12/15/06																																				
37	Finalise TDA	16 days?	Mon 12/18/06	Thu 1/4/07																																				
38	Printing the final TDA	19 days?	Fri 1/5/07	Wed 1/31/07																																				
39	Act 3: Prepare Regional SAP	354 days?	Mon 3/5/07	Tue 7/1/08																																				
40	Guideline for cost-benefit analysis	200 days	Mon 3/5/07	Fri 11/30/07																																				
41	Prepare a draft regional SAP (consultant)	20 days	Mon 12/3/07	Fri 12/28/07																																				
42	Discuss the draft at the WG meeting--Drafting group 1st	4 days	Sat 1/5/08	Wed 1/9/08																																				
43	Revise the draft SAP & prepare version #2	45 days?	Tue 1/1/08	Fri 2/29/08																																				
44	Discuss version #2--Drafting group 2nd, special PSC	10 days	Mon 3/17/08	Fri 4/11/08																																				
45	Revise the draft SAP, & prepare version #3	13 days?	Mon 4/14/08	Wed 4/30/08																																				
46	Discuss version #3, & finalise the regional SAP (RSTP, PSC)-Dra	23 days	Thu 5/1/08	Sat 5/31/08																																				
47	Printing regional SAP	22 days?	Mon 6/2/08	Tue 7/1/08																																				
48	Act 4: Prepare nat'l SAP	263 days?	Wed 1/2/08	#####																																				
49	Assess all national information & prepare for a framework of NY'	109 days?	Wed 1/2/08	Fri 5/30/08																																				
50	National meetings-1 on NYSAP	23 days?	Wed 1/2/08	Thu 1/31/08																																				
51	Revise NYSAP	87 days?	Fri 2/1/08	Sat 5/31/08																																				
52	Finalise NYSAP	20 days?	Tue 6/3/08	Mon 6/30/08																																				
53	Print NYSAP	23 days?	Mon 12/1/08	Wed 12/31/08																																				
54	Act 5: Partners of the Yellow Sea	1305 days?	Wed 1/19/05	Thu 12/31/09																																				
55	Create partnerships with other organisations and projects--YSP	1305 days?	Wed 1/19/05	Thu 12/31/09																																				
56	VC: NATIONAL INSTITUTIONS	1305 days?	Mon 1/3/05	Tue 12/15/09																																				
57	ACT 1: Review and assess national institutions to support YS	127 days?	Fri 7/1/05	Fri 12/23/05																																				
58	Contract to nat'l focal points (Contract)	87 days?	Fri 7/1/05	Mon 10/31/05																																				
59	Finalise the review report (WG meeting)	39 days	Wed 11/2/05	Fri 12/23/05																																				
60	ACT 2: Facilitate national institutions to be effective stewards of the YSLME	1305 days?	Mon 1/3/05	Tue 12/15/09																																				
61	Local project office, Provision of necessary equipment	520 days?	Mon 1/3/05	Tue 12/26/06																																				

ID	Task Name	Duration	Start	Finish	2007												2008												2009											
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
62	Enhance communications	1305 days?	Mon 1/3/05	Tue 12/15/09	[Gantt bar]																																			
63	Provide technical trainings	125 days?	Mon 7/3/06	Wed 7/29/09	[Gantt bar]																																			
64	Seminars for research community	1305 days?	Mon 1/3/05	Tue 12/15/09	[Gantt bar]																																			
65	Study tours for govt officials 1/yr (local govt)--Local Government	3 days?	Mon 9/25/06	Wed 9/27/06	[Gantt bar]																																			
66	Act 3: Establish National Coordination Unit within existing framework to assure intersectoral coordination in	495 days?	Mon 2/14/05	Sun 12/31/06	[Gantt bar]																																			
67	Establish IMCC (meeting to decide)	65 days?	Wed 10/4/06	Sun 12/31/06	[Gantt bar]																																			
68	Appoint NPC	65 days?	Mon 2/14/05	Fri 5/13/05	[Gantt bar]																																			
69	Establish NCU (need equipment, staff)	65 days?	Mon 10/3/05	Thu 12/29/05	[Gantt bar]																																			
70	Establish NWGs	65 days?	Mon 10/3/05	Thu 12/29/05	[Gantt bar]																																			
71	Act 4: Develop proposals to strengthen national institutions to enhance their ability to contribute to environmental management and decision-making	548 days?	Mon 1/3/05	Wed 1/31/07	[Gantt bar]																																			
72	Together with Activity 2, Strengthen national institutions to be part of TDA development	548 days?	Mon 1/3/05	Wed 1/31/07	[Gantt bar]																																			
73	VD: FINANCIAL INSTRUMENTS	1056 days?	Mon 1/2/06	Thu 12/31/09	[Gantt bar]																																			
74	ACT 1: Review status and potential for financial sustainability of YSLME regional institutional framework	141 days?	Wed 3/1/06	Tue 9/12/06	[Gantt bar]																																			
75	Contract to institution (contract to national focal point)--Govern	132 days?	Wed 3/1/06	Thu 8/31/06	[Gantt bar]																																			
76	Discuss & finalise the review report (WG meeting 3)	3 days?	Sat 9/9/06	Thu 9/12/06	[Gantt bar]																																			
77	ACT 2: Provide training in environmental project identification and preparation	666 days?	Sat 9/9/06	Thu 3/12/09	[Gantt bar]																																			
78	Identify the training needs (WG meeting 3)	3 days	Sat 9/9/06	Tue 9/12/06	[Gantt bar]																																			
79	Training #1 Project document preparation	2 days?	Mon 10/22/07	Tue 10/23/07	[Gantt bar]																																			
80	Training #2 Fund raising	3 days?	Tue 3/10/09	Thu 3/12/09	[Gantt bar]																																			
81	ACT 3: Assist and encourage the continuation of project preparation and feasibility studies for long-term environmental investment to implement the SAP and	201 days?	Mon 2/4/08	Fri 11/7/08	[Gantt bar]																																			
82	Prepare draft proposal (consultant)--Financial Sustainability, SAI	86 days?	Mon 2/4/08	Sat 5/31/08	[Gantt bar]																																			
83	PSC to discuss	5 days	Mon 11/3/08	Fri 11/7/08	[Gantt bar]																																			
84	ACT 4: Provide matched fund for small grant project	794 days?	Mon 1/2/06	#####	[Gantt bar]																																			
85	Identify the topics of small grant project (PMO)	66 days?	Mon 1/2/06	Wed 1/30/08	[Gantt bar]																																			
86	Provide matched funds for the approved projects (contracts)	725 days?	Wed 2/1/06	Wed 12/31/08	[Gantt bar]																																			
87	Matched grants	725 days?	Wed 2/1/06	Wed 12/31/08	[Gantt bar]																																			
88	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	613 days?	Mon 9/3/07	Thu 12/31/09	[Gantt bar]																																			
89	Prepare pre-feasibility studies (consultant)-Technical F/S	66 days?	Mon 9/3/07	Fri 11/30/07	[Gantt bar]																																			
90	Discuss & finalise pre-feasibility study(WG meeting, RSTP)	54 days?	Mon 9/17/07	Wed 11/28/07	[Gantt bar]																																			
91	Submit to PSC for approval	2 days?	Thu 11/29/07	Fri 11/30/07	[Gantt bar]																																			
92	Demonstration projects (contracts)--Demonstration on sustainab	350 days	Mon 9/1/08	Thu 12/31/09	[Gantt bar]																																			
93	VE: DATA AND INFORMATION MANAGEMENT	1318 days?	Fri 12/31/04	Thu 12/31/09	[Gantt bar]																																			
94	ACT 1: Determine regional data and information management capabilities	216 days?	Mon 1/3/05	Mon 10/31/05	[Gantt bar]																																			
95	Review regional data & info systems, i.e. regional data centre, NEAR-GOOS, NOWPAP DINRAC, (consultant)	129 days?	Mon 1/3/05	Thu 6/30/05	[Gantt bar]																																			
96	Prepare a proposal for DIM (consultant)	87 days?	Fri 7/1/05	Mon 10/31/05	[Gantt bar]																																			
97	ACT 2: Develop an effective regional DIM strategy to help achieve the goals of the YSLME	1318 days?	Fri 12/31/04	Thu 12/31/09	[Gantt bar]																																			
98	Decide where database should be hosted	130 days?	Fri 12/31/04	Thu 6/30/05	[Gantt bar]																																			
99	Discuss and approve DIM proposal, including guidelines (WG me	25 days	Tue 11/15/05	Sat 12/17/05	[Gantt bar]																																			
100	Equipment (GIS software, hardware)	109 days?	Mon 4/3/06	Thu 8/31/06	[Gantt bar]																																			
101	Training on DIM--Technical workshop	2 days?	Tue 3/4/08	Wed 3/5/08	[Gantt bar]																																			
102	Operation of DIM	875 days	Mon 9/11/06	Thu 12/31/09	[Gantt bar]																																			
103	ACT 3: Implement the regional DIM strategy, including equipment, facilities, and communications	79 days?	Fri 9/15/06	Sun 12/31/06	[Gantt bar]																																			
104	To identify sustainable means for the DIM	79 days?	Fri 9/15/06	Sun 12/31/06	[Gantt bar]																																			
105	VF: Public Awareness and Participation	1317 days?	Mon 1/3/05	Thu 12/31/09	[Gantt bar]																																			
106	ACT 1: Develop a public awareness campaign	444 days?	Mon 1/3/05	Tue 9/12/06	[Gantt bar]																																			
107	Preparation of public awareness campaign (PMO)--Public Awarer	326 days?	Mon 1/3/05	Fri 3/31/06	[Gantt bar]																																			
108	Agree on the campaign (WG meeting 3)	3 days	Sat 9/9/06	Tue 9/12/06	[Gantt bar]																																			
109	ACT 2: Demonstrate regional public awareness/participation	517 days?	Wed 11/2/05	Sat 10/13/07	[Gantt bar]																																			
110	Organise public awareness conferences (contracts)--Parliamenta	5 days	Tue 3/28/06	Sat 10/13/07	[Gantt bar]																																			
111	Prepare public awareness materials (Contracts)	174 days?	Wed 11/2/05	Fri 6/30/06	[Gantt bar]																																			
112	Produce multi-media, e.g. project pins, mouse pads, posters, etc	174 days	Wed 11/2/05	Fri 6/30/06	[Gantt bar]																																			
113	Public awareness training-twice	1 day	Mon 1/1/07	Mon 1/1/07	[Gantt bar]																																			
114	ACT 3: Encourage ongoing public awareness and participation activities to help achieve the goals of the	1305 days?	Wed 1/19/05	Thu 12/31/09	[Gantt bar]																																			
115		1305 days?	Wed 1/19/05	Thu 12/31/09	[Gantt bar]																																			