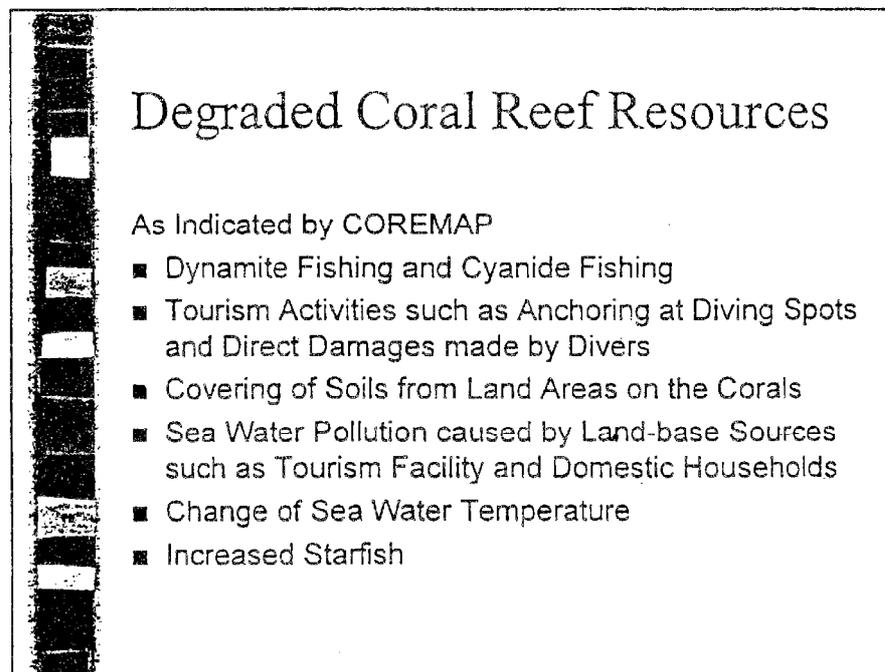
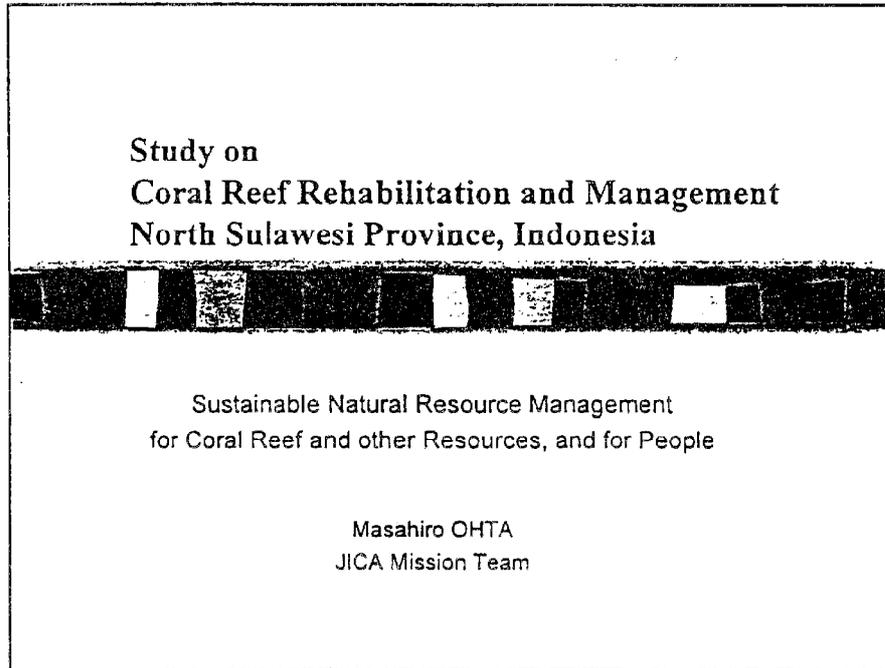


8 事前調査（S/W協議）協議資料（日本側作成）



## People's Life

- Poverty cause by Insufficient Income
- Less Job Opportunities
- Less Opportunities to join in the Tourism Industries
- Illegal Activities to Sustain Life
- Lack of Communities' Capacity to manage Coastal Resources
- Lack of Awareness
- Inappropriate Management System of National and Local Government Organizations
- Less Incentives to Local Communities

## Scope of Study

1. Study on Living of Local Communities and their Economic Structure
2. Study on Habitats, Living Conditions, Characteristics of Coral Reef, Adverse Effects of Economic and Illegal Activities
3. Development of Materials for Awareness and Education
4. Master-plan (M/P) on Resource Management and Local Economic Development
5. Ways and Means for M/P Implementation

1. Study on Living of Local Communities and their Economic Structure (1)

- Fact-finding Field Studies for Local Communities
- Living Conditions and Job Opportunities for Cultivation, Fishing, Tourism and Others
- Use of Natural Resources including Coral Resources
- Present Land-use Patterns
- Structure of Income Generating Activities

1. Study on Living of Local Communities and their Economic Structure (2)

- Laws and Regulations for Natural Resource Management
- Institutions and Organizations relating to Management of Natural Resources including Biodiversity Resources
- Enforcement of Legislation for Resource Management including Control System of Illegal Activities
- Existing Regional and Sub-regional Economic Development Plans and their Implementation



## 2. Study on Habitats, Living Conditions, Characteristics of Coral Reef, Adverse Effects of Economic and Illegal Activities

- Mapping of Habitats of Coral Reef
- Classification of Habitat Conditions
- Living Conditions of Coral Reef
- Characteristics of Coral Reef Ecosystem
- Types of Activities Providing Adverse Impacts to Resources
- Damages of Resources
- Contribution of Coral Resources to Total Marine and Coastal Ecosystem
- Other Ecosystems represent North Surawesi Province
- Possible Resources for Tourism Activities



## 3. Development of Materials for Awareness and Education

- Produce Various Materials for Awareness and Education, following Field Ecosystem Study
- Distribute Materials to Local Organizations and Communities including NGOs
- Examples of Materials: Video Tapes, Slides, Booklets, Leaflets, Posters, etc.
- Training Workshops for Effective Use of Materials
- Training Workshops for School Teachers

#### 4. Master-plan (M/P) on Resource Management and Local Economic Development

- Direction of Sub-regional Economic Development at the Province Level
- Coral Reef Resource Management
- Other Natural Resource Management
- Typical Ecosystems represent the Province
- Measures implemented by Local Communities
- Ideas for Income Generation and Eco-tourism
- Ideas for Awareness and Educational Activities
- Integrated Management Planning

#### 5. Ways and Means for M/P Implementation

- Priorities for M/P Implementation
- Legislation and Regulation for Resource Management
- Institutional System for Resource Management including coordination mechanism
- Measures to Strengthen Enforcement System
- Measures for Human Resource Development for Resource Management
- Measures for Local Development including Infrastructure Development
- Cost Estimation and Financial Plan
- Financial Sources for M/P Implementation

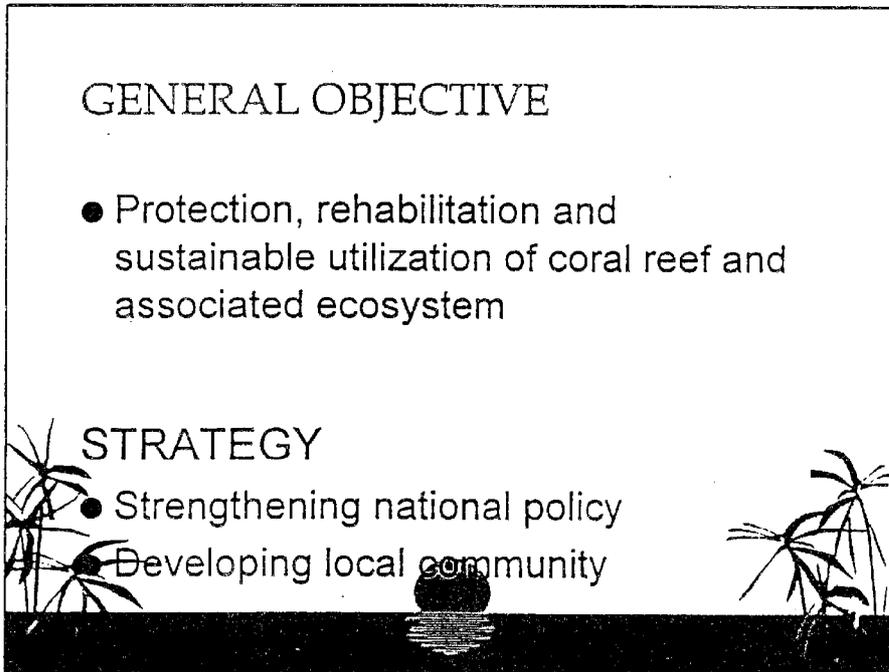
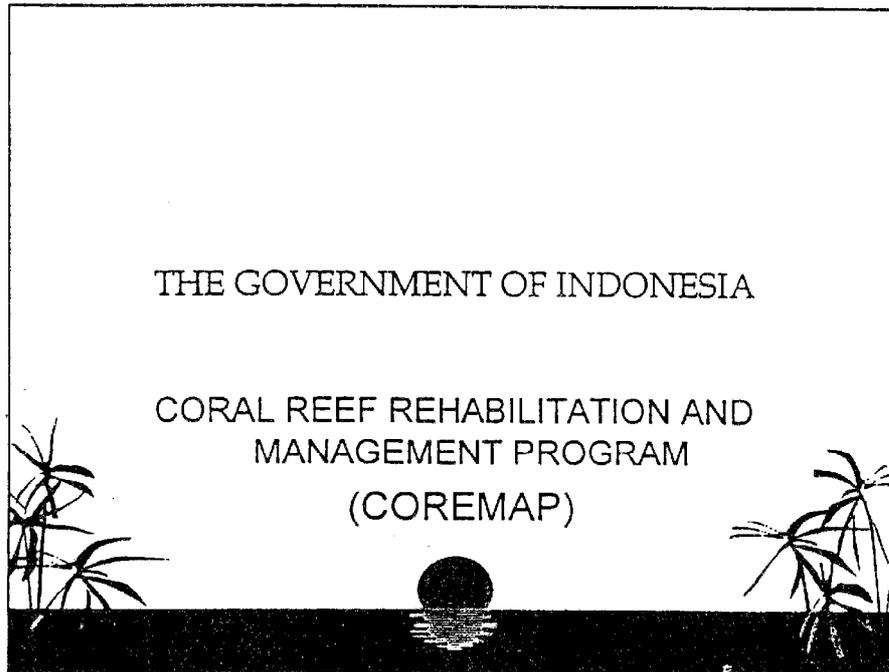
## Prerequisite for JICA Study

- Clear Decision on Counterpart Organizations and Coordination System among Them
- Establish Steering Committee consisting of Local Government Organizations, Academic Institutes, Communities, NGOs and Others
- Allocate Counterpart Personnel who works with JICA Study Team
- Provide Available Information and Data necessary for the Study, owned by National and Local Government Organizations
- Provide Office Facility and Vehicles for JICA Study Team
- Issue ID Cards for JICA Study Team
- According to the JICA's Regulation, Personnel Cost for Counterpart Personnel and other Personnel concerned will not be paid.
- JICA will allocate the financial source for study implementation

## Inputs of JICA

- JICA Study Team
- Assist Capacity Development of C/P Personnel through Technology Transfer
- Expenses for Study except C/P Personnel Cost including Travelling
- Expenses for Materials of Awareness
- Seminars, Workshops and other Training Opportunities

9 事前調査 (S/W協議) 協議資料 (インドネシア側作成)



## SPECIFIC OBJECTIVE

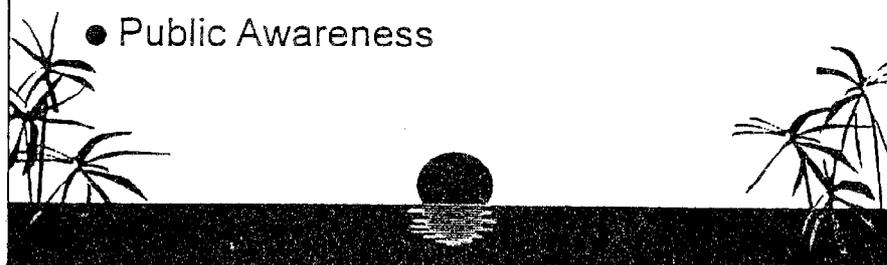
- Strengthen strategic planning and policy development capacity, law enforcement and surveillance
- Establish sustainable and effective CBM
- Establish and effective sustainable COREMAP
- CRITC
- Establish monitoring system through public awareness and training

## SCOPE OF PROGRAM

- Site and locations: ten provinces
- Phase
  - Initiation (years 1-3)
  - Acceleration (years 4-9)
  - Internalization (years 10-15)
- Components:
  - 5 components

## COMPONENTS

- Community Based Management
- Surveillance and Enforcement
- Institutional Strengthening and Training
- Monitoring, Evaluation and Research
- Public Awareness



## PROJECT COMPONENTS

### **The World Bank**

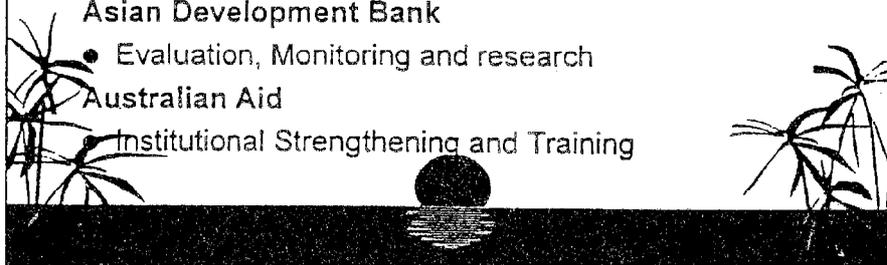
- Program Strategy and Management
- Public Awareness
- Surveillance and Enforcement
- Community Based Management

### **Asian Development Bank**

- Evaluation, Monitoring and research

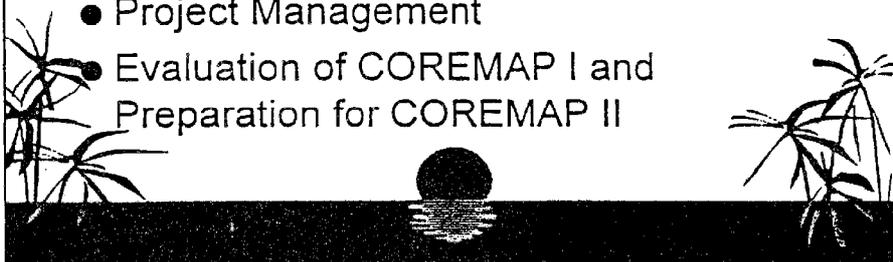
### **Australian Aid**

- Institutional Strengthening and Training



## PROGRAM STRATEGY & MANAGEMENT

- Policy and Strategic Planning for COREMAP Program
- Legal Framework for Coral Reef Management
- Project Management
- Evaluation of COREMAP I and Preparation for COREMAP II



## Policy and Strategic Planning

### Inputs

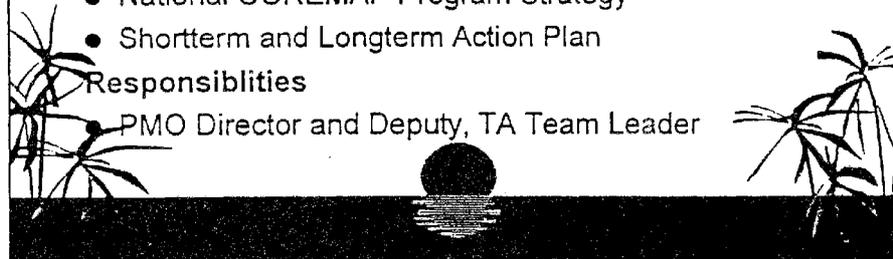
- TA and Workshop

### Outputs

- National Policy for Coral Reef Protection and Its Sustainable Use
- National COREMAP Program Strategy
- Shortterm and Longterm Action Plan

### Responsibilities

- PMO Director and Deputy, TA Team Leader



## Legal Framework for COREMAP

### Inputs

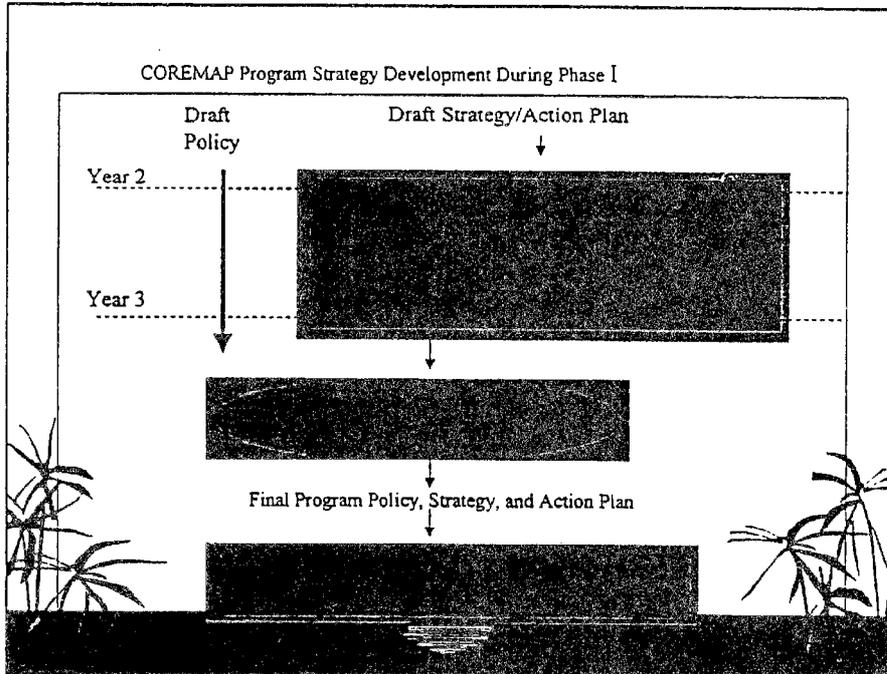
- TA, studies and workshop

### Outputs

- Review and rationalization of key national legislation affecting coral reef
- Legal framework for CBM and marine protected areas
- Legal studies

### Responsibilities

- Deputi II dan IV, TA



## Project Management

- **Activities**
- Workshop and General O & M
- Mobilize counterpart staff
- Manage procurement contracts
- Project launch, planning, review, evaluation
- Project reports
- Comparative studies
- Coordinate project activities

## Evaluation of COREMAP I and Preparation for COREMAP II

### Independent COREMAP I Evaluation

- Assess progress based on benchmark indicator of Initiation Phase
- Half member appointed by GOI and half by World Bank (administered by IUCN)
- TOR will be defined with GOI at mid-term review

### Preparation for COREMAP II

- Prepare Draft PIP with GOI

### Responsibilities

PMO and TCC

## PUBLIC AWARENESS

### Inputs

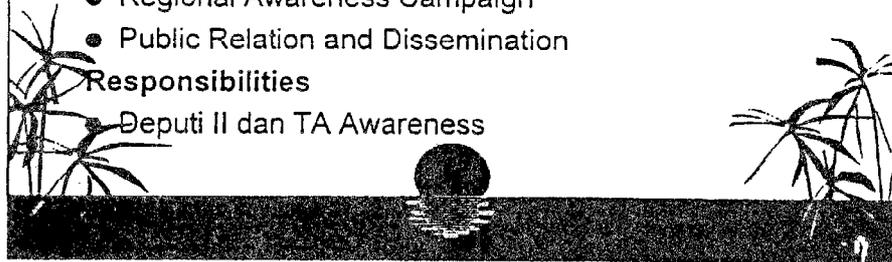
- TA, workshop, publications, awareness materials, surveys, and awards

### Outputs

- National Awareness Campaign
- Regional Awareness Campaign
- Public Relation and Dissemination

### Responsibilities

- Deputi II dan TA Awareness



## SURVEILLANCE AND ENFORCEMENT

### Inputs

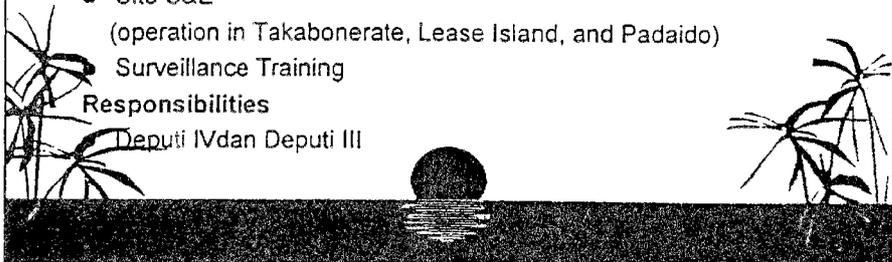
- TA, Equipment, studies, operations, workshops

### Outputs

- National S&E Component  
(manual, procurement, Nat. S&E Unit, Workshop, poison testing study)
- Site S&E  
(operation in Takabonerate, Lease Island, and Padaido)
- Surveillance Training

### Responsibilities

- Deputi IV dan Deputi III



# COMMUNITY BASED MANAGEMENT

## Inputs

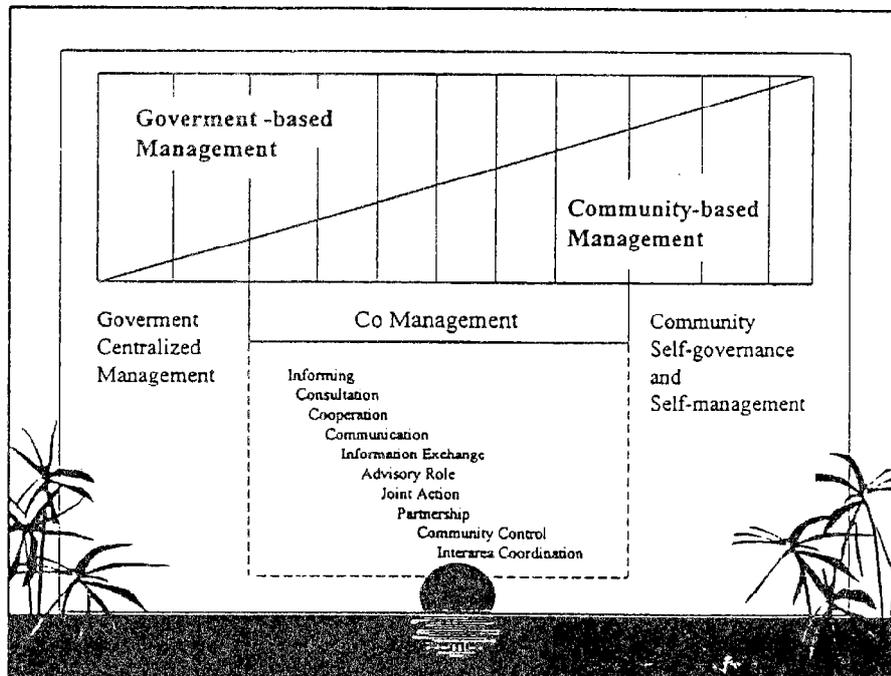
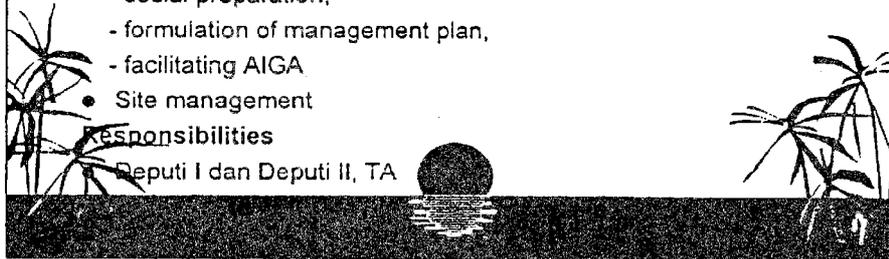
- TA, community support service, workshop, training, draft management plan and village grants

## Outputs

- Site support
- Community preparation
  - social preparation,
  - formulation of management plan,
  - facilitating AIGA
- Site management

## Responsibilities

Deputi I dan Deputi II, TA



## Draft Reef Management Plan

- Key problem and strategy proposed
  - Community mapping
  - User rights
  - Map of proposed management units (e.g. sanctuaries)
  - Proposed management rules and sanctions
  - Local institutions responsible
  - Informal monitoring proposed
  - Description of local Reef Watch system
  - Conflict resolution mechanism
  - Estimated funding and community contribution
- Responsibilities

## TECHNICAL GUIDELINES FOR REEF SANCTUARIES

- Sanctuaries should be strict no-take zones
  - Recommended size: 20-30% of total reef areas
  - Sanctuaries should protect spawning aggregation sites for target species
  - Areas surrounding sanctuaries should be restricted for the use of traditional communities
- Responsibilities
- CRITC

## CRITERIA FOR AIGs

- Be financially feasible (18% minimum rate of return)
- Involve low risk
- Have proven technology
- Involve low capital and operational cost
- Have developed markets
- Must be 'reef friendly'
- No significant environmental impact

### Responsibilities

- Deputi II dan TA

## COREMAP ADB ACTIVITIES

### Inputs

- TA, equipment, materials, survey, inventory, workshop, training and fellowships.

### Activities

- Part A:

Establishing and Strengthening Coral Reef Research, Training, Information Monitoring System

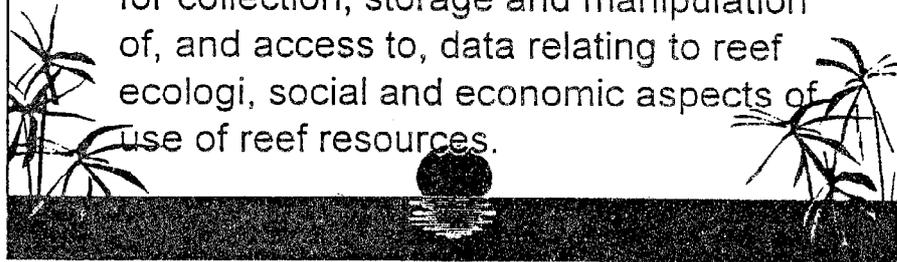
- Part B:

CBM and Surveillance in Riau Province

- Part C:

## Establishing and Strengthening CRITCs

- Establishing new and strengthening existing CRITCs in Jakarta, Pekanbaru, Ambon, Kupang and Ujung pandang
- Development of systems and facilities for collection, storage and manipulation of, and access to, data relating to reef ecologi, social and economic aspects of use of reef resources.



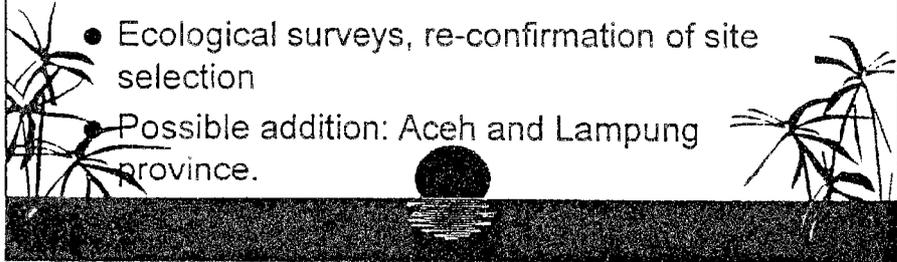
## CBM and COREMAP II

### **CBM**

- Same as World Bank in Riau Province

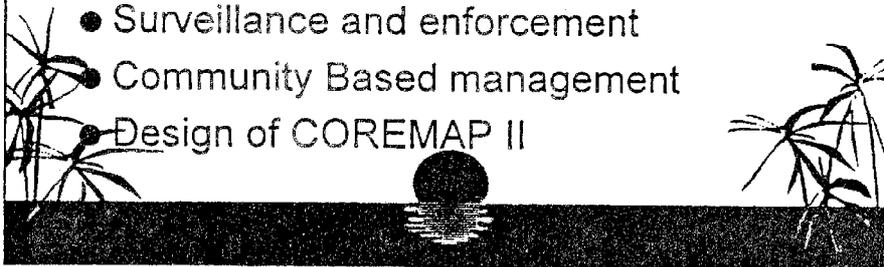
### **Preparation of COREMAP II**

- Design and FS in Riau, North Sumatra, West Sumatra
- Ecological surveys, re-confirmation of site selection
- Possible addition: Aceh and Lampung province.



## KEY PERFORMANCE (OUTPUT) INDICATORS

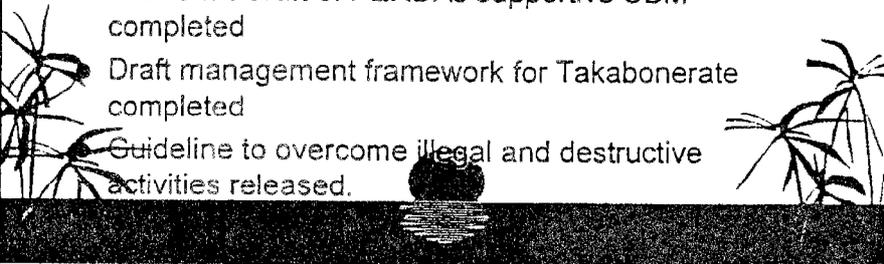
- Legal framework for coral reef management
- Project management
- Public awareness
- Surveillance and enforcement
- Community Based management
- Design of COREMAP II



## Success Indicator for Legal Framework for Coral Reef Management

By 2000/2001

- COREMAP program strategy and national action plan approved by SC
- Matrix draft revision of key legislation submitted to authorities for enactment
- Academic draft of PERDAs supportive CBM completed
- Draft management framework for Takabonerate completed
- Guideline to overcome illegal and destructive activities released.



## SUCCESS INDICATORS FOR PROJECT MANAGEMENT

By December 1998

- Qualified counterpart staff mobilized with defined performance goals
- Office equipment and furniture adequate for project activities
- TA and Awareness PR firm mobilized
- Qualified NGO/Universities mobilized for Lease/TBR sites

## SUCCESS INDICATORS FOR PUBLIC AWARENESS

By 1999/2000

- Awareness campaign design accepted by TCC
- National and Provincial awareness campaign launched
- COREMAP newsletter produced and Web page updated 3x/year

By 2000/2001

- COREMAP program awards designed
- 30% of targeted audience familiar with coral reef issues.

## SUCCESS INDICATORS FOR SURVEILLANCE AND ENFORCEMENT

### By 2000/2001

- Surveillance framework for pilot sites produced
- Enforcement training completed
- National and Provincial S&E Units established
- Surveillance equipment procured and distributed
- Action plan for external mobile threats

## SUCCESS INDICATORS FOR CBM

### By 1998/1999

- Field manual released to the field
- Qualified field motivators appointed in all villages

### By 1999/2000

- Coral Reef Management Plan Drafted

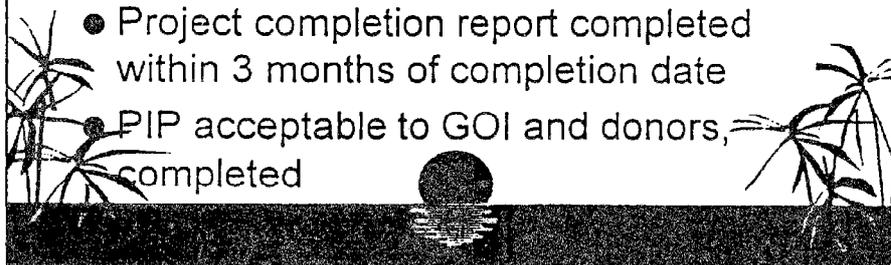
### By 2000/2001

- Community group/village working with COREMAP Program
- Draft management plan accepted
- Lesson learned documented on Web page and

## DESIGN OF COREMAP II

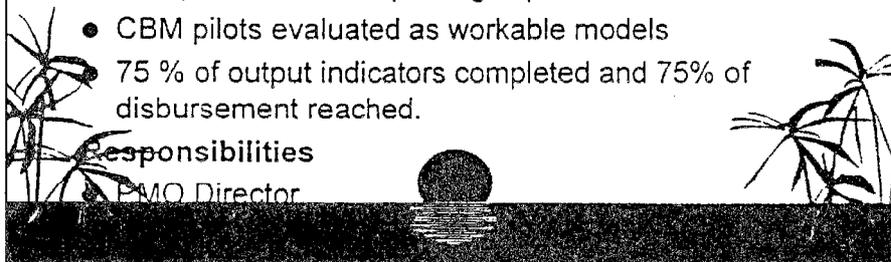
### By end of the project

- Site assessment completed
- Independent evaluation of COREMAP I completed
- Project completion report completed within 3 months of completion date
- PIP acceptable to GOI and donors, completed



## CHECKLISTS FOR EVALUATION

- Complete national COREMAP program policy and strategy.
- Institutional capacity evaluated as sufficiently improved to enable expansion of COREMAP Program
- Compliance rates improving in pilot sites
- CBM pilots evaluated as workable models
- 75 % of output indicators completed and 75% of disbursement reached.



Responsibilities  
EMO Director

## 10 主要面会者連絡先

<参考>

### 主要面会者連絡先

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<参考>

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<参考>

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資料リスト (■収集資料/□専門家作成資料)

主管部長	文書管理課長	主管課長	情報管理課長	技術情報課長	図書館受入日

プロジェクトID	2451079F0	調査団番号	A-97-01596
地域	アセアン	調査団名又は専門家氏名	サンゴ礁管理計画調査
国名	インドネシア	配属機関名	
		調査の種類又は指導科目	開発調査(事前調査)
		現地調査期間又は派遣期間	担当部課
			担当者氏名

番号	資料の名称	形態(図書、ビデオ、地図、写真等)	収集資料	専門家作成資料	JICA作成資料	科社	発行機関	取扱区分	図書館記入欄
1	Proyek Pesisirプロジェクト・サイト別ファクト・シート (インドネシア語)	パンフレット	*				Proyek Pesisir Secretariat	JR・CR( )・SC	
2	Indonesian Journal of Coastal and Marine Resources Vol. 2, No. 1, 1999 (英語、イ)	図書	*				Proyek Pesisir Secretariat	JR・CR( )・SC	
3	Research and Development Centre for Oceanology, Indonesian Institute of Sciences (英)	パンフレット	*				Lembaga Ilmu Pengetahuan Indonesia (LIPI)	JR・CR( )・SC	
4	Assessment of Wildlife Populations, Forest and Forest Resource Use of Talise Island, North Sulawesi, Indonesia(英)	図書	*				Proyek Pesisir (TE-99/09-E)	JR・CR( )・SC	
5	Socioeconomic Aspects of Coastal Resource Use in Talise, North Sulawesi (英)	図書	*				Proyek Pesisir (TE-99/10-E)	JR・CR( )・SC	
6	An Examination and Comparison of Rumbia and Minanga: Control Villages for the Coastal Resource Management	図書	*				Proyek Pesisir (TE-98/01-E, Proyek Pesisir)	JR・CR( )・SC	
7	Rapid Assessment of Coastal Management Issues on the Coast of Minahasa (英)	図書	*				Proyek Pesisir (TE-97/01-E.)	JR・CR( )・SC	
8	Coastal and Marine Management Strategic Plan (英・イ)	図書	*				Provincial Planning Development Agency, Province of North Sulawesi	JR・CR( )・SC	
9	USAID Proyek Pesisir出版物リスト (英)	出版物リスト	*				Proyek Pesisir	JR・CR( )・SC	
10	Repelita VI, Pembangunan Daerah Tingkat I, 18. Sulawesi Utara (イ)	図書	*				BAPPENAS(?)	JR・CR( )・SC	
11	Preliminary Results: Crisis Impacts Study for Sulawesi Utara (イ)	報告書	*				Timothy Broth, Natural Resources Managemeng Program	JR・CR( )・SC	
12	Valuing Resources, Fisheries, Tourism, and Preservation Values Bunaken National Marine Park, Teaching Case Study	報告書	*				NRM Program	JR・CR( )・SC	
13	Ringkasan Eksekutif, Draft Laporan Dampak Krisis Ekonomi di Sulawesi Utara (イ)	報告書	*				Bambang Brodjonegoro, Consultant to NRM Program	JR・CR( )・SC	
14	Sosial Ekonomi Masyarakat Akibat Diteemukannya Ikan Ceelecant di Perairan Manado Tua (イ)	報告書	*				JICA専門家和田氏の依頼によりWWF Indonesiaが作成	JR・CR( )・SC	
15	Indonesian Travel & Nature, Aug-Sept. 1999 (英)	ニュースレター	*				Yayasan Brita Nuanse Alam	JR・CR( )・SC	
16	KEHATI Strategic Plan and Programs 1998-2002 (英)	報告書	*				KEHATI	JR・CR( )・SC	
17	スラウェシ島地図	地図	*				PT Karya Pembina Swajaya, Surabaya	JR・CR( )・SC	
18	北スラウェシ州ミナハサ県地図	地図	*				PT Karya Pembina Swajaya, Surabaya	JR・CR( )・SC	
19	Potensi Dan Kendala Dalam Pengelolaan Terumbu Karang (Desa Buhias, Kecamatan Siau Timur, Kabupaten Sangihe-Talaud, Propinsi Sulawesi Utara) (イ)	報告書	*				LIPI	JR・CR( )・SC	
20	Lapcran Hasil Kegiatan Survai Baseline Sosial Ekonomi Program Rehabilitasi Dan Pengelolaan Terumbu Karang	報告書	*				LIPI	JR・CR( )・SC	

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		担当者氏名	

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21	Profile of Center for Coastal and Marine Resources Studies (CCMRS), Bogor Agricultural University	活動案内	*				Bogor Agricultural University	JR-CR( )・ ⑤	
22	Daftar Tambahan Koleksi: Pusat Informasi Dokumentasi Pesisir dan Lautan PKSPL-IPB, Volume 1, Nomor 1, Feb. 1999	蔵書リスト	*				Bogor Agricultural University		
23	Agenda 21 Indonesia	報告書	*				State Ministry for Environment, Republic of Indonesia & United Nations Development	JR-CR( )・ ⑤	
24	Indonesia's Marine Environment: A Summary of Policies, Strategies, Actions and Issues	報告書	*				Ministry of State for Environment	JR-CR( )・ ⑤	
25	Law of The Republic of Indonesia: No. 22, Year 1999 Regarding Local Government	内部資料	*				Proyek Pesisir オフィスより入手	JR-CR( )・ ⑤	
26	Decentralization in Indonesia: Prospects and Problems	報告書	*				James Alm and Roy Bahl, Dept. of Economics, The School of Policy Studies, Georgia State University	JR-CR( )・ ⑤	
27	Economic Crisis, Fiscal Decentralization and Autonomy: Prospects for Natural Resources Management	ディスカッション・ペーパー	*				NRM Program	JR-CR( )・ ⑤	
28	NRMP News	ニュースレター(抜粋)	*				Natural Resources Management Project	JR-CR( )・ ⑤	
29	Proyek Pesisir (Coastal Resources Management Project) Year One Work Plan (April 1997 - March 1998). USAID-BAPPENAS	報告書	*				Proyek Pesisir	JR-CR( )・ ⑤	
30	Preparation document for the awareness and participation component of COREMAP, Volume III, Draft July 1996.	報告書	*				Global Vision, Inc.	JR-CR( )・ ⑤	
31	Coral reef rehabilitation and management project (COREMAP), Technical proposal TA No. 2535-INO, for Asian Development Bank, Manila, Philippines.	報告書	*				Canola Asia Inc.	JR-CR( )・ ⑤	
32	State of the reefs, regional and global perspectives, an International Coral Reef Initiative executive secretariat background paper, May, 1995.	報告書	*				U.S. Department of commerce	JR-CR( )・ ⑤	
33	Project appraisal document on a proposed loan in the amount of US\$6.9 million and a grant from the global Environment Facility Trust Fund in the amount of SDR3.1 million (US\$4.1 million equivalent) to the Republic of Indonesia for a coral reef	報告書	*				The World Bank	JR-CR( )・ ⑤	
34	COREMAP project preparation document / Annexes A-M, November, 1996.	報告書	*				AMSAT Ltd /Pt Ecolink Utama	JR-CR( )・ ⑤	
35	Indonesia: Coastal environment management planning ADB TA No. 2053-INO	報告書	*				Dobbin Milus International / Chemonics International	JR-CR( )・ ⑤	

資料リスト (  収集資料 /  専門家作成資料 )

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36	COREMAP project preparation document TA No. 2535-INO, Draft final report, March, 1997.	報告書	*				Canola Asia Inc. / Pt. Intersys Keola Maju	JR-CR( )・ ⑤	
37	COREMAP project preparation document TA No. 2535-INO, Draft final report annexes, March, 1997.	報告書	*				Canola Asia Inc. / Pt. Intersys Keola Maju	JR-CR( )・ ⑤	
38	Jaring kontrol horisontal dan distribusi titik doppler (表紙タイトル, インドネシア地図インデックス)	地図インデックス	*				BAKOSURTANAL (Waindo SpecTerra社より入手)	JR-CR( )・ ⑤	
39	Airborne Remote Sensing	パンフレット	*				Waindo SpecTerra社	JR-CR( )・ ⑤	
40	Company overview / Waindo SpecTerra	パンフレット	*				Waindo SpecTerra社	JR-CR( )・ ⑤	
41	The management plan of Kayeli Bay, Kotania Bay and Nahalia Bay.	パンフレット	*				LIPI, Ambon Branch (インドネシア語)	JR-CR( )・ ⑤	
42	COREMAP project preparation document TA No. 2535-INO, Draft final report, July, 1997.	報告書	*				Canola Asia Inc. / Pt. Intersys Keola Maju	JR-CR( )・ ⑤	
43	COREMAP project preparation document TA No. 2535-INO, Draft final report annexes, July, 1997.	報告書	*				Canola Asia Inc. / Pt. Intersys Keola Maju	JR-CR( )・ ⑤	
44	Lokakarya jurnalistik program rehabilitasi dan pengelolaan terumbu karang (COREMAP), Jakarta dan Pulau Putri, 18-20 Maret, 1998.	報告書	*				LIPI, COREMAP PMO	JR-CR( )・ ⑤	
45	COREMAP, Launch Workshop Jakarta, September 1-4, 1998.	報告書	*				LIPI, COREMAP PMO	JR-CR( )・ ⑤	
46	The Indonesian Institute of Sciences.	パンフレット	*				LIPI	JR-CR( )・ ⑤	
47	Taka Bone Rate marine national park project (ID 0119), Technical progress report to John D. and Catherine T. MacArthur Foundation, World Wide Fund for Nature Indonesia	報告書	*				World Wide Fund for Nature, Indonesia	JR-CR( )・ ⑤	
48	Marine Resources Atlas of Indonesia.	地図(A0版)	*				BAKOSURTANAL	JR-CR( )・ ⑤	

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49	Marine Conservation Data Atlas Indonesia	地図 (A3版)	*				IUCN / WWF	JR-CR( ) ⑤	
50	Community-based coastal resource management in Indonesia: Examples and initial lessons from North Sulawesi	論文別刷	*				Proyek Pesisir	JR-CR( ) ⑤	
51	Laporan data dasar sumberdaya wilayah pesisir desa Talise, Kabupaten Minahasa Propinsi Sulawesi Utara TE-99/08-1 (サンゴ礁調査データ、イ)	報告書	*				Proyek Pesisir	JR-CR( ) ⑤	
52	Workplan implementation report #3 (April-September 1998) AR-98/03-E	報告書	*				Proyek Pesisir	JR-CR( ) ⑤	
53	Workplan implementation report #3 (October-March 1999) AR-99/03-E	報告書	*				Proyek Pesisir	JR-CR( ) ⑤	
54	Year Three workplan (April 1999-March 2000) AR-99/01-E	報告書	*				Proyek Pesisir	JR-CR( ) ⑤	
55	The Indonesian coastal resources management project (CRMP): A two track approach	論文別刷	*				Proyek Pesisir	JR-CR( ) ⑤	
56	Proposal: Reef resource assessment training	提案書	*				AMSAT Ltd	JR-CR( ) ⑤	
57	Geographical information system and remote sensing for environmental management - Activity profile (1987-1996)	報告書	*				Ministry of State for Environment, Republic of Indonesia	JR-CR( ) ⑤	
58	Marine resource evaluation and planning project - Final report	報告書	*				BCOEM	JR-CR( ) ⑤	
59	Integrated coastal and marine resource management - Proceeding of International Symposium	報告書	*				Institute Technology National, Republic of Indonesia	JR-CR( ) ⑤	
60	Indonesian country study on integrated coastal and marine biodiversity management	報告書	*				Ministry of State for Environment, Republic of Indonesia	JR-CR( ) ⑤	
61	Gambar 3. Peta kondisi terumbu karang dari Bentenan ke arah Rumbia dengan menggunakan metoda Manta Tow (4 Juni 1997).	サンゴ礁調査結果図	*				Proyek Pesisir	JR-CR( ) ⑤	

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62	Gambar 9. Peta hasil penelitian terumbu karang dengan menggunakan metoda Manta Tow di Bentenan Tumbak - Informasi Wilayah Pesisir Desa Bentenan dan Tumbak Kecamatan	サンゴ礁調査結果図	*				Proyek Pesisir	JR-CR( ) SC	
63	Peta Rupabumi Indonesia Lembar 2417 1:250,000 MANADO	等高線地図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( ) SC	
64	Peta Rupabumi Indonesia Lembar 2417-51/53 1:50,000 WORI	等高線地図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( ) SC	
65	Peta Rupabumi Indonesia Lembar 2417-24/33 1:50,000 BITUNG	等高線地図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( ) SC	
66	Peta Rupabumi Indonesia Lembar 2417-52/61 1:50,000 LIKUPANG	等高線地図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( ) SC	
67	Peta Rupabumi Indonesia Lembar 2417-42 1:50,000 MANADO TUA	等高線地図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( ) SC	
68	Peta Rupabumi Indonesia Lembar 2417-22 1:50,000 SAWANGAN	等高線地図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( ) SC	
69	Peta Rupabumi Indonesia Lembar 2417-23 1:50,000 MANADO	等高線地図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( ) SC	
70	Peta Rupabumi Indonesia Lembar 2417-14 1:50,000 TANAWANGKO	等高線地図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( ) SC	
71	Peta Rupabumi Indonesia Lembar 2417-11 1:50,000 TENGA	等高線地図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( ) SC	
72	Peta Rupabumi Indonesia Lembar 2417-21 1:50,000 LANGOWAN	等高線地図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( ) SC	
73	Peta Rupabumi Indonesia Lembar 2417-12 1:50,000 AMURANG	等高線地図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( ) SC	
74	Peta Rupabumi Indonesia Lembar 2417-54 1:50,000 TALISE	等高線地図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( ) SC	

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75	Present Land Use and Forest Status Sulawesi 2417 1:250,000 MANADO	土地利用図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( )・ SC	
76	Peta Lingkungan Pantai Indonesia Lembar LPI-2417-02 AMURANG	等深線入り 海洋・地形図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( )・ SC	
77	Peta Lingkungan Pantai Indonesia Lembar LPI-2417-03 MANADO	等深線入り 海洋・地形図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( )・ SC	
78	Peta Lingkungan Pantai Indonesia Lembar LPI-2417-04 ULUSIAU	等深線入り 海洋・地形図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( )・ SC	
79	Peta Lingkungan Pantai Indonesia Lembar LPI-2417-05 KAKAS	等深線入り 海洋・地形図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( )・ SC	
80	Peta Lingkungan Pantai Indonesia Lembar LPI-2417-06 LIKIPUNG	等深線入り 海洋・地形図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( )・ SC	
81	Peta Lingkungan Pantai Indonesia Lembar LPI-2417-07 BITUNG	等深線入り 海洋・地形図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( )・ SC	
82	Peta Lingkungan Laut Nasional PETA LLN-29 1:500,000 Sulawesi Utara	海図	*				BAKOSURTANAL (National Coordination Agency for Surveys and Mapping)	JR-CR( )・ SC	