

Appendix 2-3-a List of Members of the Study Team

Survey Team Structure

(1) Phase I (Explanation and Review of the Inception Report)

| Name | Assignment | Survey Term |
|--------------------|-------------------------------------------|------------------------------------------|
| Nobumitsu MIYAZAKI | General Administration (Head of the Team) | November 25 - December 3, 1997 9 days |
| Kazuhisa KATO | Mangrove Forest Inventory | November 25 - December 3, 1997 9 days |
| Akira SUDO | Socio-economy | November 25 - December 3, 1997 9 days |
| Kenichi SUZUKI | Aerial Photography | November 25 - December 3, 1997 9 days |
| Shingo OTOMO | GIS Engineering (System Design) | November 25 - December 3, 1997 9 days |
| Takayuki OKUBO | Coordinator | November 25 - December 3, 1997 9 days |

Appendix 2-3-b List of Members of the Study Team

(2) Phase I (First Study in the Philippines)

| Name | Assignment | Survey Term |
|--------------------|----------------------------------------------|-----------------------------------------|
| Nobumitsu MIYAZAKI | General Administration (Head of the Team) | February 2 - March 8, 1998 35 days |
| Takaki TOYODA | Natural Condition Analysis | February 2 - March 8, 1998 35 days |
| Kazuhisa KATO | Mangrove Forest Inventory | February 2 - March 8, 1998 35 days |
| Hiroki TOMIYA | Aerial Photograph Interpreting | February 2 - March 8, 1998 35 days |
| Akira SUDO | Socio-economy | February 2 - March 8, 1998 35 days |
| Kenichi SUZUKI | Aerial Photography | January 10 - March 25, 1998 75 days |
| Yasuhiko TSUKAMOTO | Photo Processing & Mosaicking | February 25 - March 30, 1998 34 days |
| Takayuki OKUBO | Coordinator | February 25 - March 17, 1998 21 days |

Appendix 2-3-c List of Members of the Study Team

(3) Phase I (Second Study in the Philippines)

| Name | Assignment | Survey Term |
|--------------------|-------------------------------------------|--------------------------------------------------------------------------------|
| Nobumitsu MIYAZAKI | General Administration (Head of the Team) | June 1 - August 18, 1998 79 days |
| Takaki TOYODA | Natural Condition Analysis | June 1 - August 18, 1998 79 days |
| Kazuhisa KATO | Mangrove Forest Inventory | June 1 - August 31, 1998 92 days |
| Hiroki TOMIYA | Aerial Photograph Interpreting | June 1 - August 31, 1998 92 days |
| Akira SUDO | Socio-economy | ① June 1 - June 29, 1998 29 days ② August 1 - August 31, 1998 31 days |
| Yasuhiko TSUKAMOTO | Photo Processing & Mosaicking | April 10 - May 5, 1998 26 days |
| Fumihiko SHIMAMINE | Drawing | ① May 2 - May 26, 1998 25 days ② July 10 - July 26, 1998 17 days |
| Takayuki OKUBO | Coordinator | April 25 - May 9, 1998 15 days |

Appendix 2-3-d List of Members of the Study Team

(4) Phase II (Third Study in the Philippines)

| Name | Assignment | Survey Term |
|--------------------|----------------------------------------------|------------------------------------------------------------------------------|
| Nobumitsu MIYAZAKI | General Administration (Head of the Team) | November 1 1988 - January 13, 1999 74 days |
| Takaki TOYODA | Natural Condition Analysis | November 1 1988 - January 13, 1999 74 days |
| Kazuhisa KATO | Mangrove Forest Inventory | November 1 1988 - January 13, 1999 74 days |
| Hiroki TOMIYA | Aerial Photograph Interpreting | November 1 1988 - January 13, 1999 74 days |
| Akira SUDO | Socio-economy | November 16 1988 - January 13, 1999 59 days |
| Zenichi CHIBA | GIS Engineering (Database) | ① November 16 - December 23, 1998 38 days ② February 4 - 20, 1999 17 days |
| Takeshi TOYOOKA | Coordinator | November 16 - 30, 1998 15 days |

Appendix 2-3-e List of Members of the Study Team

(5) Phase II (Fourth Study in the Philippines)

| Name | Assignment | Survey Term |
|--------------------|----------------------------------------------|-------------------------------|
| Nobumitsu MIYAZAKI | General Administration (Head of the Team) | May 23 - May 29, 1999 7 days |
| Kazuhisa KATO | Mangrove Forest Inventory | May 23 - May 29, 1999 7 days |
| Shingo OTOMO | GIS Engineering (System Design) | May 18 - May 29, 1999 12 days |
| Takayuki OKUBO | Coordinator | May 15 - May 29, 1999 15 days |

Appendix 2-4

Supported Personnel and Organizations of the Philippine Side

1) Aparri Area

| | |
|------------------------------|------------------------------------------------------------------------|
| Mayor Ismael V. Tumaru | Municipal Mayor, Aparri |
| Ms. Norma Kagunhan | Municipal Planning & Dev't Officer, Aparri |
| Mayor Francisco C. Sevilleja | Municipal Mayor, Sta. Teresita |
| Mr. Justininauo P. Tabag | MPDO, Sta. Tersita, |
| Mr. Vicman G. Mondejar | MPDO, Buguey |
| Mayor Antonio R. Hurung | Municipal Mayor, Pamplona |
| Mr. Bert Puzon Durante | MPDO, Pamplona |
| Mr. Jorge B. Tapiru | Secretary, Municipal Council, Abulug |
| Mr. Roberto C. Apigo | Provincial Environment and Natural Resources Officer, Cagayan, DENR |
| Mr. Marlon C. Agnar | Community Environment and Natural Resources Officer, Aparri, DENR |
| Mr. George Cristoball | CENR Officer, Sanchez mira, DENR |
| Ms. Elizabeth B. Brillantes | Adm. Officer II, PENRO, Cagayan, DENR |
| Mr. Ray Baquiran | Planning Officer, PENRO, Cagayan, DENR |
| Mr. Andrew R. Agosto | Forester-II, CENRO-Aparri, DENR |
| Mr. Ernesto Gonzales | CENRO-Aparri, DENR |
| Mr. Ruben P. Cubero | Forester-II, CENRO-Aparri |
| Ms. Marvelyn V. Guiang | Forester-I, CBFM, CENRO-Aparri |
| Mr. Gregorio P. Alonzo | Forester-III, CENRO, Sanchez mira, DENR |
| Mr. Jimmy G. Mabulneg | Licenses/Permits Section, CENRO-Sanchez Mira |
| Mr. Harold S. Oandasan | Forest Ranger, CENRO-Sanchez Mira, DENR |

| | |
|------------------------------|--------------------------------------------------------|
| Mr. Licerio M. Antiporda III | Barangay Chairman, Centro, Buguey |
| Mr. Romy Arellano | Barangay Chairman, Calamegatan, Buguey |
| Mr. Erweir Villanueva | Barangay 1 st Counselor, San Isidro, Buguey |
| Mr. Maricris Medina | Barangay Secretary, Cabaritan, Buguey |
| Mr. Abrelito Ortoza | Barangay Chairman, Remebella, Buguey |
| Mr. Modesto A. Solnen | Barangay Chairman, Simpatuyo, St. Teresita |
| Mr. Edwin R. Mabanag | Barangay Chairman, Simbaluca, St. Teresita |
| Mr. Ireneo Lagbao | Barangay Chairman, Bisagu, Aparri |
| Mr. Florentino Adap | Barangay Chairman, Linao, Aparri |
| Mr. Esteban R. Mores | Barangay Chairman, Siguiran, Abulug |
| Mr. Nicalas Mallabo | Barangay Chairman, San Juan, Pamplona |
| Mr. Oscar De Guzman | Barangay Chairman, Cabaggan, Pamplona |
| Mr. Alfonso Duyor | Barangay Chairman, Tabba, Pamplona |

2) Lamon Bay Area

| | |
|------------------------------|-------------------------------------------------|
| Mayor Pedro G. Tnofre | Municipal Mayor, Calauag |
| Mr. Vito L. Yabarrola | Municipal Planning & Devit Coordinator, Calauag |
| Mr. Marcos T. Villegas | Municipal Vice-Mayor, Lopez |
| Mr. Alfred G. Calandria, Jr. | MPDC, Lopez |
| Mayor Nesto Salamides, Sr. | Municipal Mayor, Guinangayan |
| Mr. Russel Narte | MPDC, Guinangayan |
| Mr. Arthur B. Serna | PENR Officer, Quezon, DENR |
| Mr. Rufo F. Lorenzo | PENR Officer, Quezon, DENR |
| Mr. Jaime M. Belleza | CENR Officer, Calauag, DENR |
| Ms. Millarette B. Panaligan | PENRO, Quezon, DENR |
| Mr. Ruben C. Mabesa | Forester-II, CENRO-Calauag |
| Mr. Pedro O. Balagas Jr. | Science Research Specialist, Quezon Ecosystems |

| | |
|-------------------------|---------------------------------------------------------------------------------------|
| | Research & Development Center, DENR |
| Ms. Violeta M. Ayapana | Science Research Specialist, Quezon Ecosystems Research & Development Center, DENR |
| Ms. Divina A. Balagas | Science Research Specialist, QERDC, DENR |
| Mr. Roberto Reyes | Barangay Chairman, Kumaludkod, Calauag |
| Mr. Celso Lim | Barangay Chairman, Lagay, Calauag |
| Mr. Roberto Reyes | Barangay Treasurer, Sta. Cecilia, Calauag |
| Mr. Francisco Panlite | Barangay Board Member, Atulayan, Calauag |
| Mr. Leonardo Panoso | Barangay Chairman, Calantipayan, Lopez |
| Mr. Ruel Florido | Barangay Board Member, Pansol, Lopez |
| Mr. Almando Dugay | Barangay Chairman, Bukal Maligaya, Guinangayan |
| Mr. Eleazar C. Abellera | Former Barangay Chairman, Balinarin, Guinangayan |
| Mr. Atanacio Osuna | Barangay Board Member, Villa San Isidro, Calauag |
| Ms. Prescilla Canae | Barangay Chairman, Buli, Calauag |
| Mr. Consuelo Nalos | Barangay Board Member, Villa Magsino, Calauag |
| Mr. Godofredo Alarcon | Barangay Chairman, Sto. Angel, Calauag |
| Mr. Joseph Ouga | Barangay Treasurer, Kagtalaba, Calauag |
| Mr. Rudy Hapita | Barangay Board Member, Plaridel, Calauag |

3) Ulugan Bay Area

| | |
|---------------------------|--------------------------------------------|
| Gov. Salvador P. Socrates | Provincial Governor, Palawan |
| Mayor Eduard S. Hagedorn | City Mayor, Pueruto Princesa City |
| Mr. Benjamine S. Garcia | Executive Asst. IV, Office of the Governor |

| | |
|--------------------------|------------------------------------------------------------------------------------------|
| Mr. Frank Paduga | Chief, Plans & Program Provincial Planning Development Office, Office of the Governor |
| Mr. Angel P. Padon | City Planning & Devít Coordinator, Pueruto Princessa City |
| Ms. Tess Lacao | Planning Officer IV , Office of the City Planning & Devít Coordinator |
| Mr. Danilo R. Querijero | PENR Officer, Palawan, DENR |
| Mr. Ivene D. Reyes | OIC, PENR Officer, Palawan, DENR |
| Mr. Ricardo A. Alarcon | CENR Officer, Puerto Princesa, DENR |
| Ms. Delia F. Sualog | Director, Coastal Environmental Program, PENRO-Palawan |
| Mr. Feligardo B. Cayatoc | Information Officer, PENRO-Palawan |
| Mr. Mateo Soniega | Science Research Specialist, PENRO- Palawan |
| Jose. V. Deogracias | PENRO-Palawan |
| Mr. Carlos Aniar | Forest Ranger, CENRO Station, Macarascas |
| Mr. J. V. Fabello | Forerunner of Plantation Development, Greenspan LTD. |
| Ms. Josephine Matulac | Director, Project Operation, Palawan Council for Sustainable Development |
| Mr. Lorenzo Layacan | Barangay Chairman, Bahile |
| Ms. Romia Labrador | Barangay Chairwoman, Macarascas |
| Ms. Carmelita Aungon | Barangay Chairwoman, Buenavista |
| Mr. Marianito Paclib | Barangay Chairman, Cabayugan |
| Ms. Cynthia Cayaon | Barangay Chairwoman, Tagbinit |

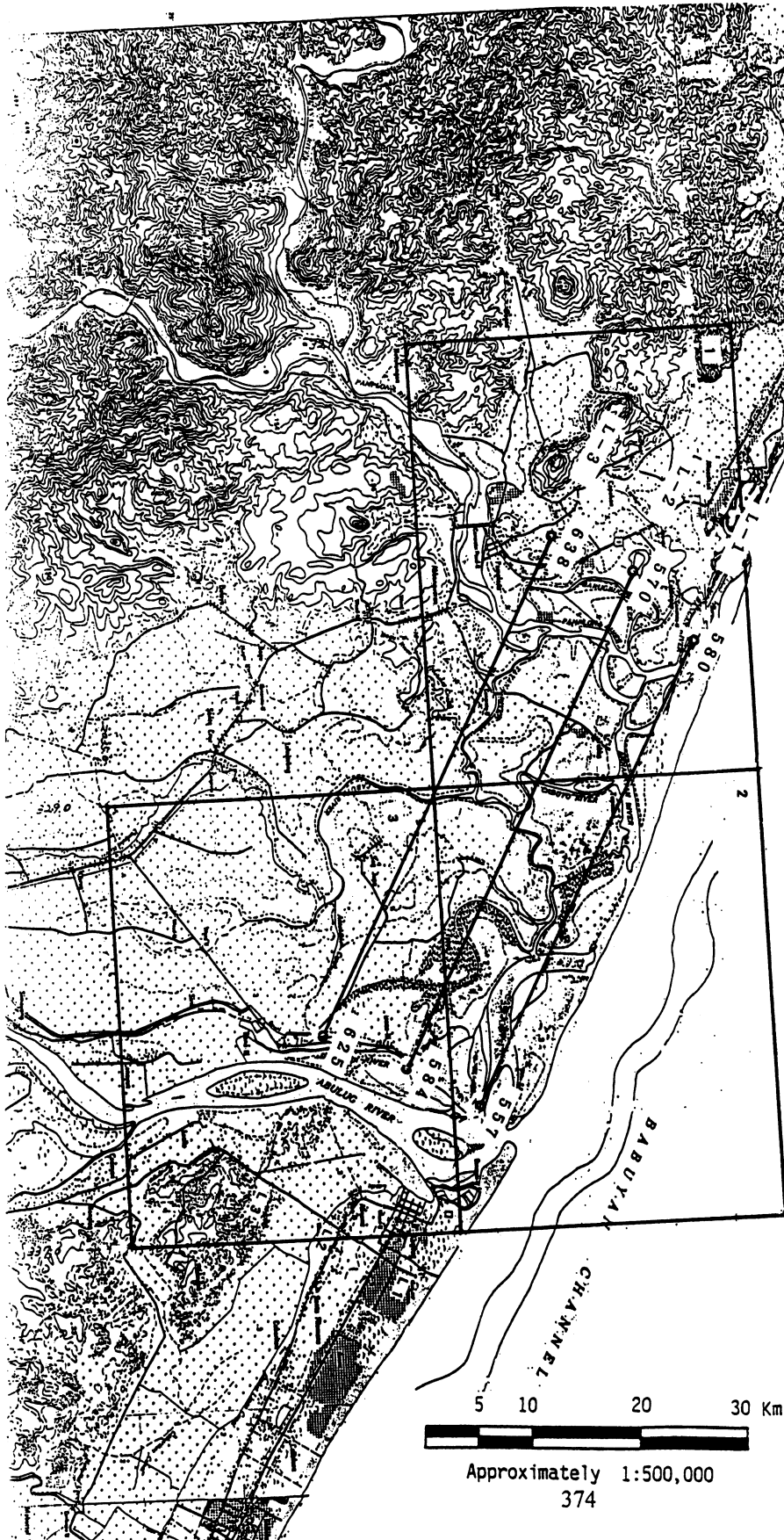
Appendix 2-5

The Abbreviations of Each Mangrove Species

| No | Species | | Abbreviations |
|----|-----------------------------------|-----------------|---------------|
| | Scientific Name | Local Name | |
| 1 | <i>Acanthus ilicifolius</i> | Deliuariu | Ai |
| 2 | <i>Acrostichum aureum</i> | Lagolo | Ac.a |
| 3 | <i>Aegiceras corniculatum</i> | Saging-saging | Ac |
| 4 | <i>Aegiceras floridum</i> | Tinduk-tindukan | Af |
| 5 | <i>Avicennia alba</i> | Bungalon-puti | Av.a |
| 6 | <i>Avicennia eucalyptifolia</i> | Bungalon sahig | Ae |
| 7 | <i>Avicennia lanata</i> | Pi-api | Al |
| 8 | <i>Avicennia marina</i> | Bungalon | Am |
| 9 | <i>Avicennia officinalis</i> | Api-api | Ao |
| 10 | <i>Barringtonia racemosa</i> | Putat | Br |
| 11 | <i>Bruguiera cylindrica</i> | Pototan-lalaki | Bc |
| 12 | <i>Bruguiera gymnorhiza</i> | Busain | Bg |
| 13 | <i>Bruguiera parviflora</i> | Langarai | Bp |
| 14 | <i>Bruguiera sexangula</i> | Pototan | Bs |
| 15 | <i>Campostemon philippinensis</i> | Gapas-gapas | Cp |
| 16 | <i>Ceriops decandra</i> | Malatagal | Cd |
| 17 | <i>Ceriops tagal</i> | Tagal | Ct |
| 18 | <i>Dolichandrone spathacea</i> | Tui | Ds |
| 19 | <i>Excoecaria agallocha</i> | Buta-buta | Ea |
| 20 | <i>Flagellaria indica</i> | Baling-uai | Fi |
| 21 | <i>Heritiera littoralis</i> | Dungon-late | Hi |
| 22 | <i>Lumnitzera littorea</i> | Tabau | Li |
| 23 | <i>Lumnitzera racemosa</i> | Kulasi | Lr |
| 24 | <i>Nypa fruticans</i> | Nipa | Nf |
| 25 | <i>Osbornia octodonta</i> | Tualis | Oo |
| 26 | <i>Rhizophora apiculata</i> | Bakauan-lalaki | Ra |
| 27 | <i>Rhizophora mucronata</i> | Bakauan-babae | Rm |
| 28 | <i>Rhizophora stylosa</i> | Bakauan-bato | Rs |
| 29 | <i>Scyphiphora hydrophyllacea</i> | Nilad | Sh |
| 30 | <i>Sonneratia alba</i> | Pagatpat | Sa |
| 31 | <i>Sonneratia caseolaris</i> | Pedada | Sc |
| 32 | <i>Thespesia populnea</i> | Banalo | Tp |
| 33 | <i>Xylocarpus granatum</i> | Tabigi | Xg |
| 34 | <i>Xylocarpus moluccensis</i> | Piagau | Xm |

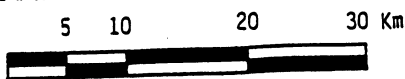
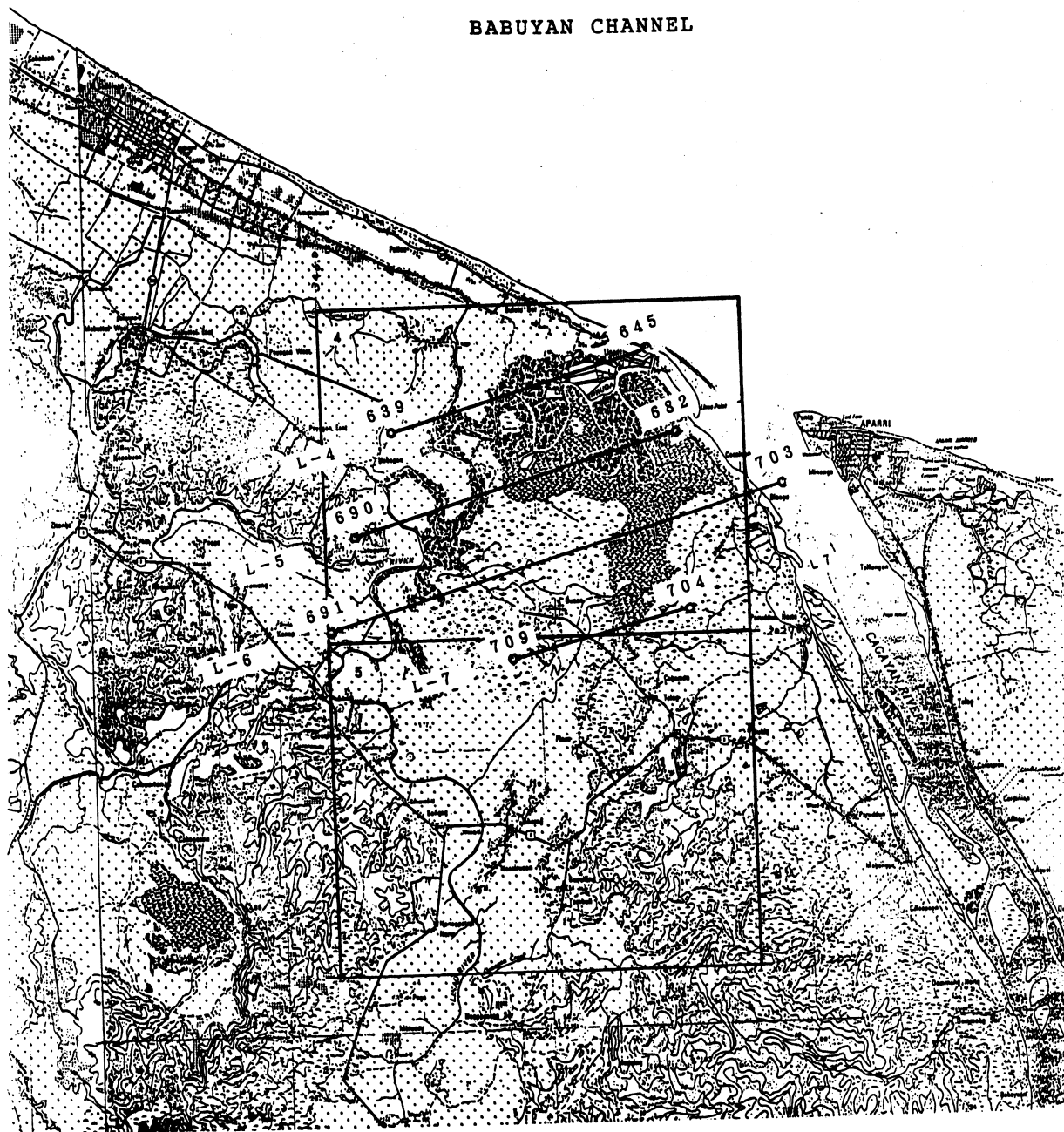
Appendix 2-6-a Maps for Aerial Photography Course and Division of Neat
Lines for the Base Maps

APARRI 3-1



APARRI 3-1

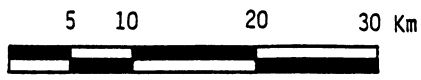
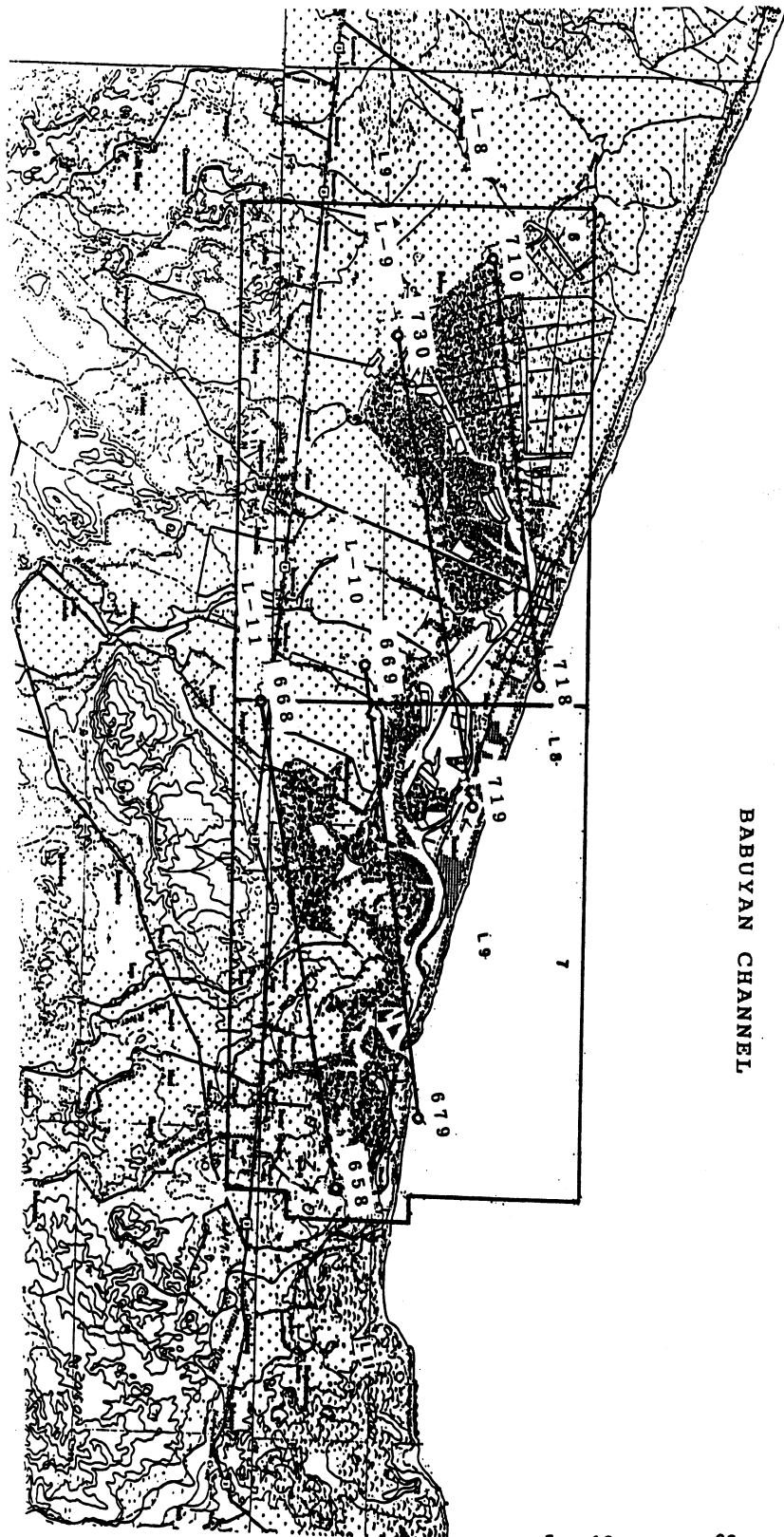
BABUYAN CHANNEL



Approximately 1:500,000

Appendix 2-6-c Maps for Aerial Photography Course and Division of Neat
Lines for the Base Maps

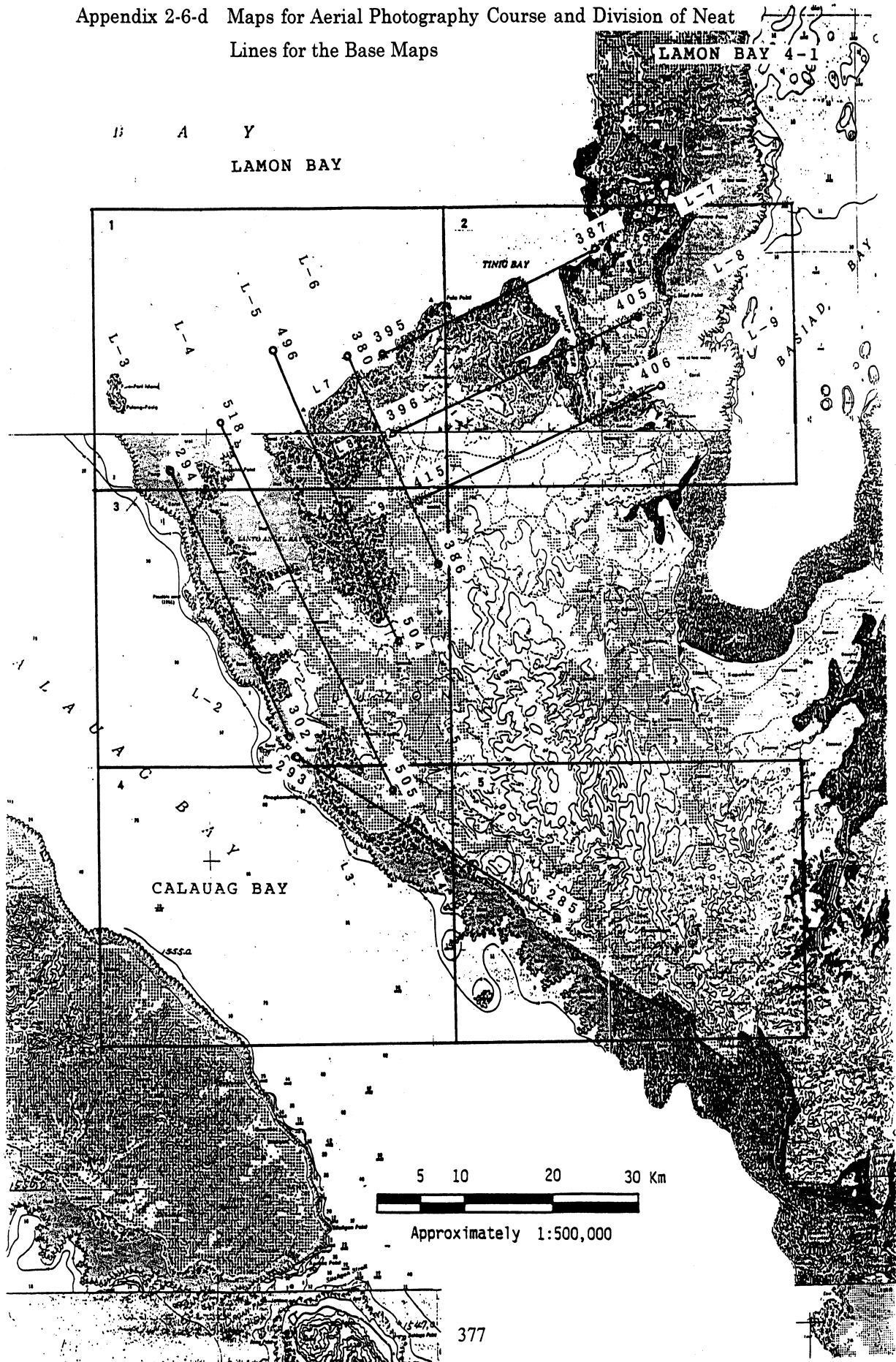
APARRI 3-3



Approximately 1:500,000

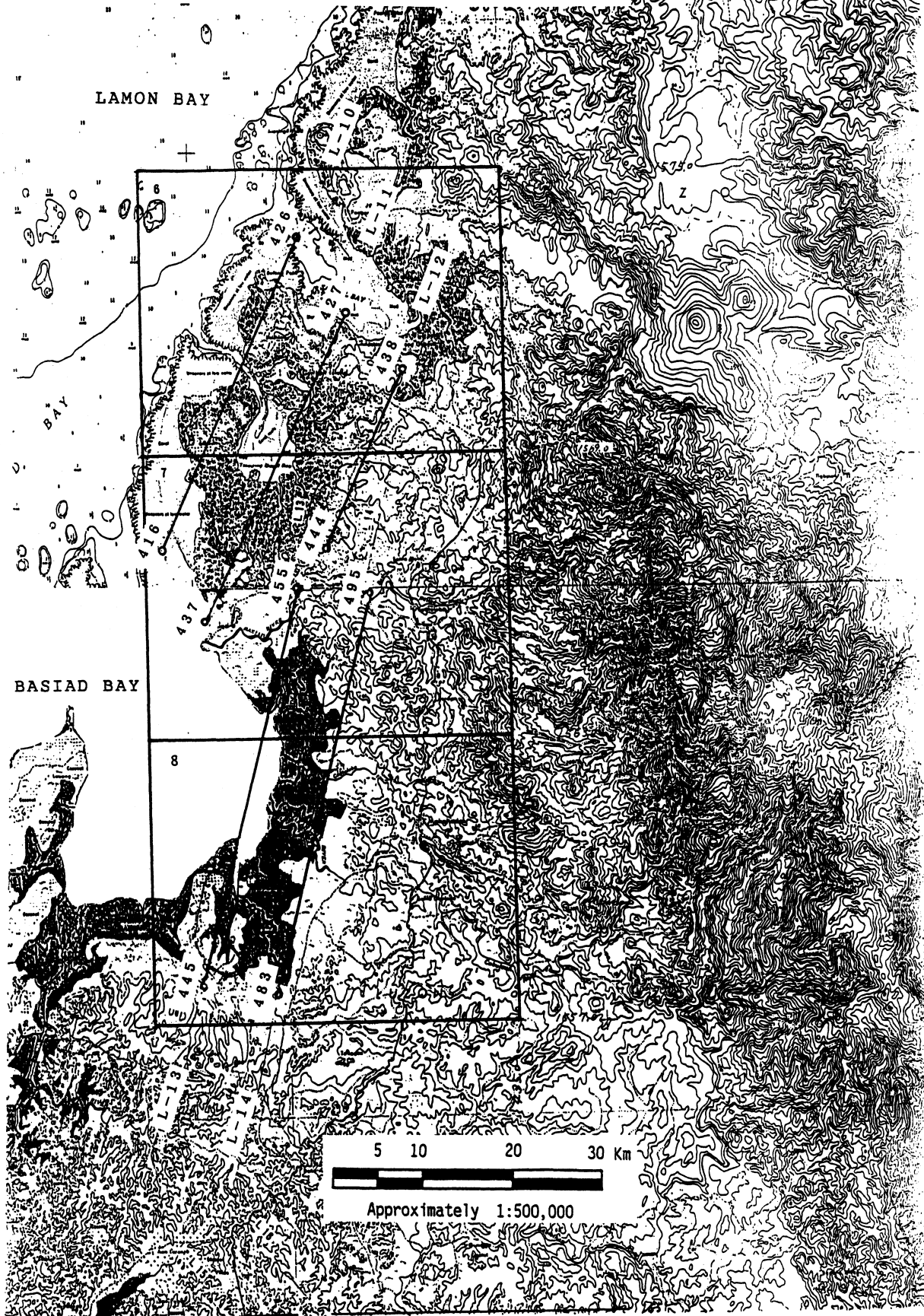
APARRI 3-3

Appendix 2-6-d Maps for Aerial Photography Course and Division of Neat
Lines for the Base Maps



Appendix 2-6-e Maps for Aerial Photography Course and Division of Neat

Lines for the Base Maps



Appendix 2-6-f Maps for Aerial Photography Course and Division of Neat
Lines for the Base Maps

