



Ministry of Public Works
Republic of Indonesia

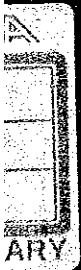
The Study on the
Integrated Regional
Development Plan
for the Northern Part
of Sumatra

Final Report

Vol. V
Land Use Maps

March 1990

Japan International Cooperation Agency



SSF
CR(5)
90-032 (5/5)

Ministry of Public Works
Republic of Indonesia

The Study on the
Integrated Regional
Development Plan
for the Northern Part
of Sumatra

Final Report

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Vol. V
Land Use Maps

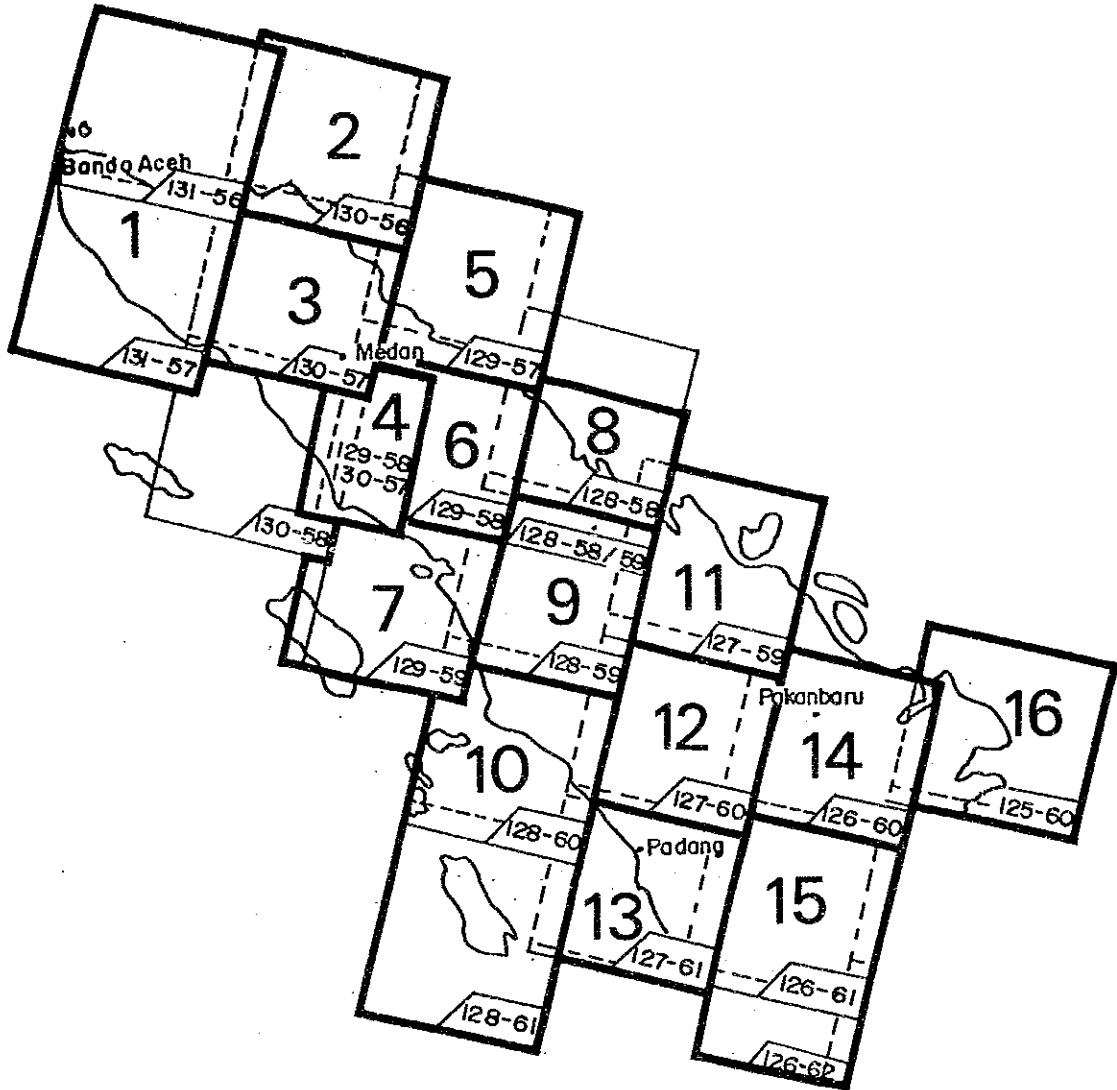
March 1990

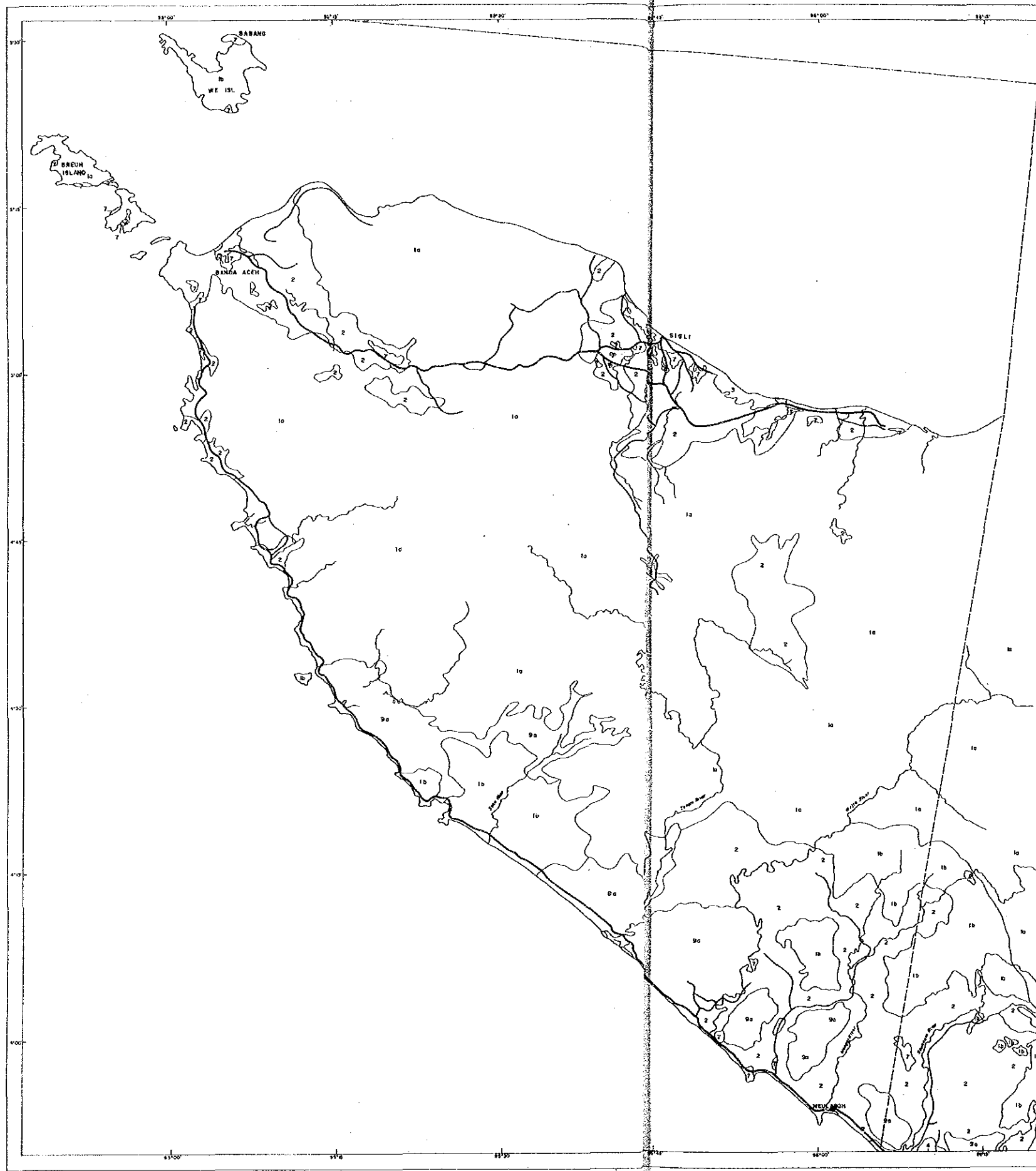
Japan International Cooperation Agency



マイクロ
フィルム作成

Map Index





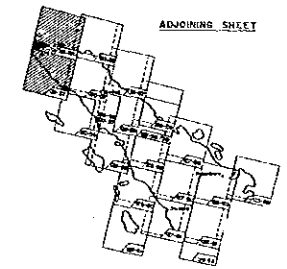
JICA (Japan International Cooperation Agency) MISSION



LAND USE MAP

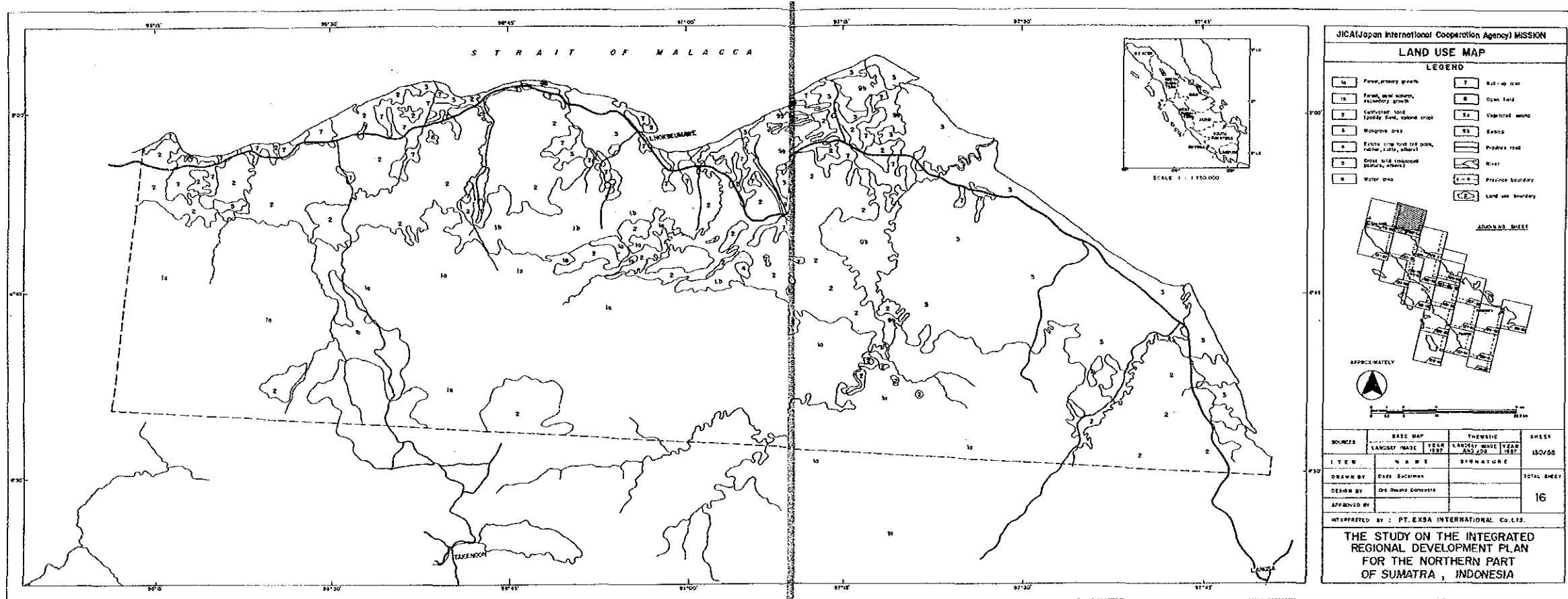
LEGEND

- 1a Forest, primary growth
- 1b Forest, semi natural, secondary growth
- 2 Cultivated land (paddy field, upland crop)
- 3 Mangrove area
- 4 Estate crop (rubber, palm, rubber, coffee, others)
- 5 Grass land (managed pasture, others)
- 6 Water area
- 7 Built-up area
- 8 Open field
- 9a Vegetated swamp
- 9b Swamp
- Provincial road
- River
- Province boundary
- Land use boundary



FOUNDER	BASE MAP	THEMATIC	SHEET
ITEM	LANDSAT IMAGE	LANDSAT IMAGE	131/56
NAME	NAME	SIGNATURE	131/57
DRAWN BY	Zehra		TOTAL SHEET
DESIGNED BY	Dr. Haido Guntara		16
APPROVED BY			
INTERPRETED BY: PT. ESSA INTERNATIONAL Co. Ltd			

THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN FOR THE NORTHERN PART OF SUMATRA, INDONESIA



JICA (Japan International Cooperation Agency) MISSION

LAND USE MAP

LEGEND

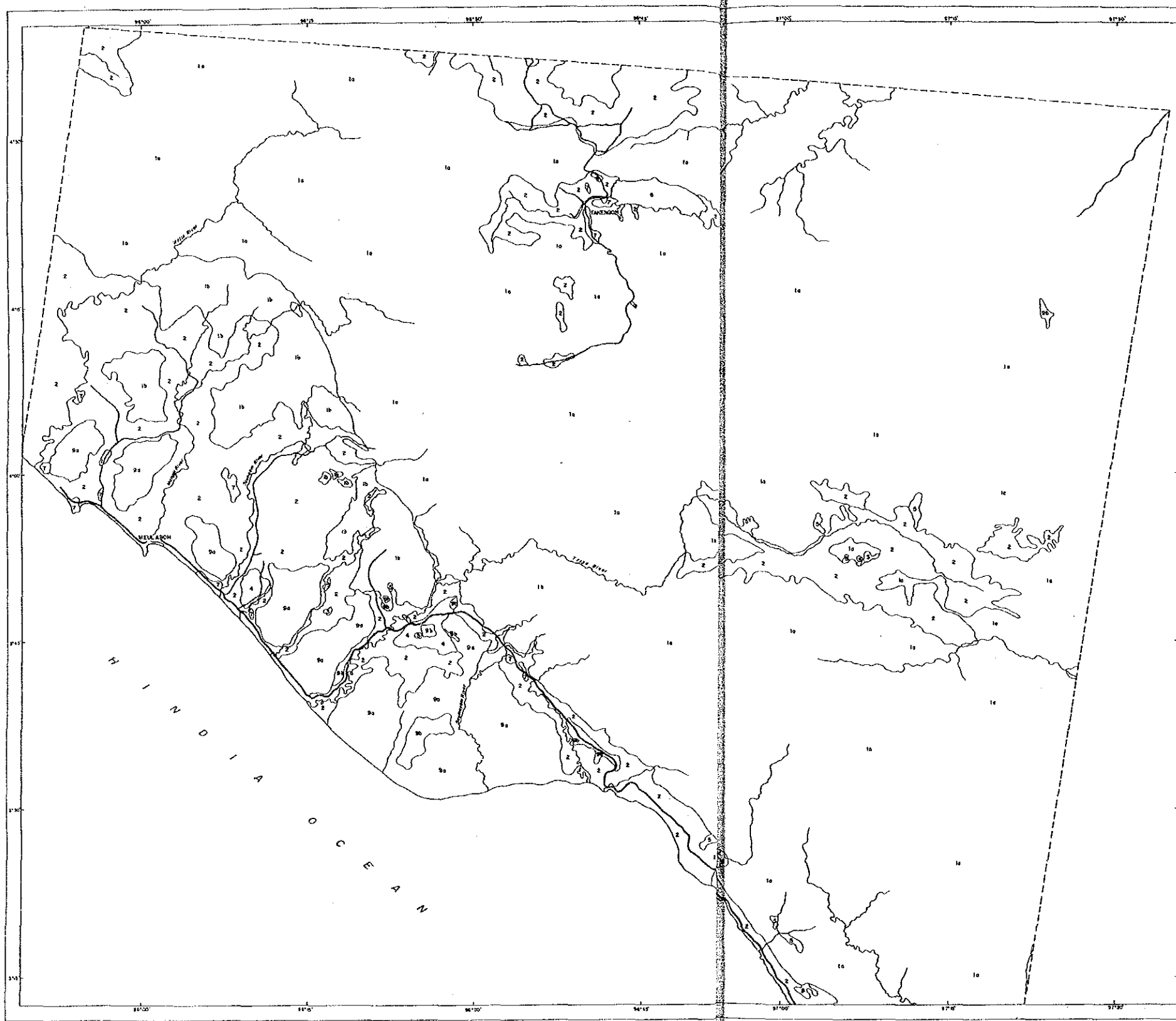
1a	Forest, primary growth	7	Rubber tree
1b	Forest, semi natural, secondary growth	8	Open field
2	Cultivated land (paddy field, rubber crop)	9a	Yam/lotus swamp
3	Mangrove area	9b	Sesap
4	Forest, crop (rubber tree, palm, coffee, banana)	10	Produce road
5	Open hill (rubber, banana, coconut)	11	River
6	Water area	12	Province boundary
		13	Land use boundary

APPROXIMATE

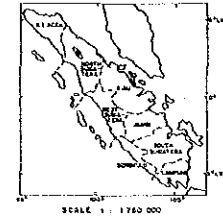
SOURCE	BASE MAP		THEMATIC		SHEET	
	LANGSAT	YEAR	LANGSAT	YEAR		
		1977	1977	1977	150/55	
DATE	NAME		SIGNATURE		TOTAL SHEET	
DRAWN BY	DATE					16
DESIGN BY	DATE					
APPROVED BY						

INTERPRETED BY : PT. EXSA INTERNATIONAL Co. Ltd.

THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN FOR THE NORTHERN PART OF SUMATRA, INDONESIA



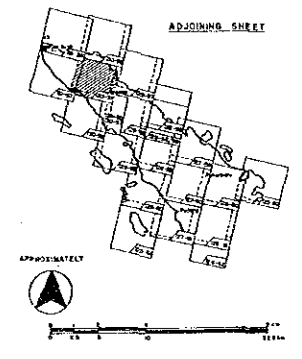
JICA (Japan International Cooperation Agency) MISSION



LAND USE MAP

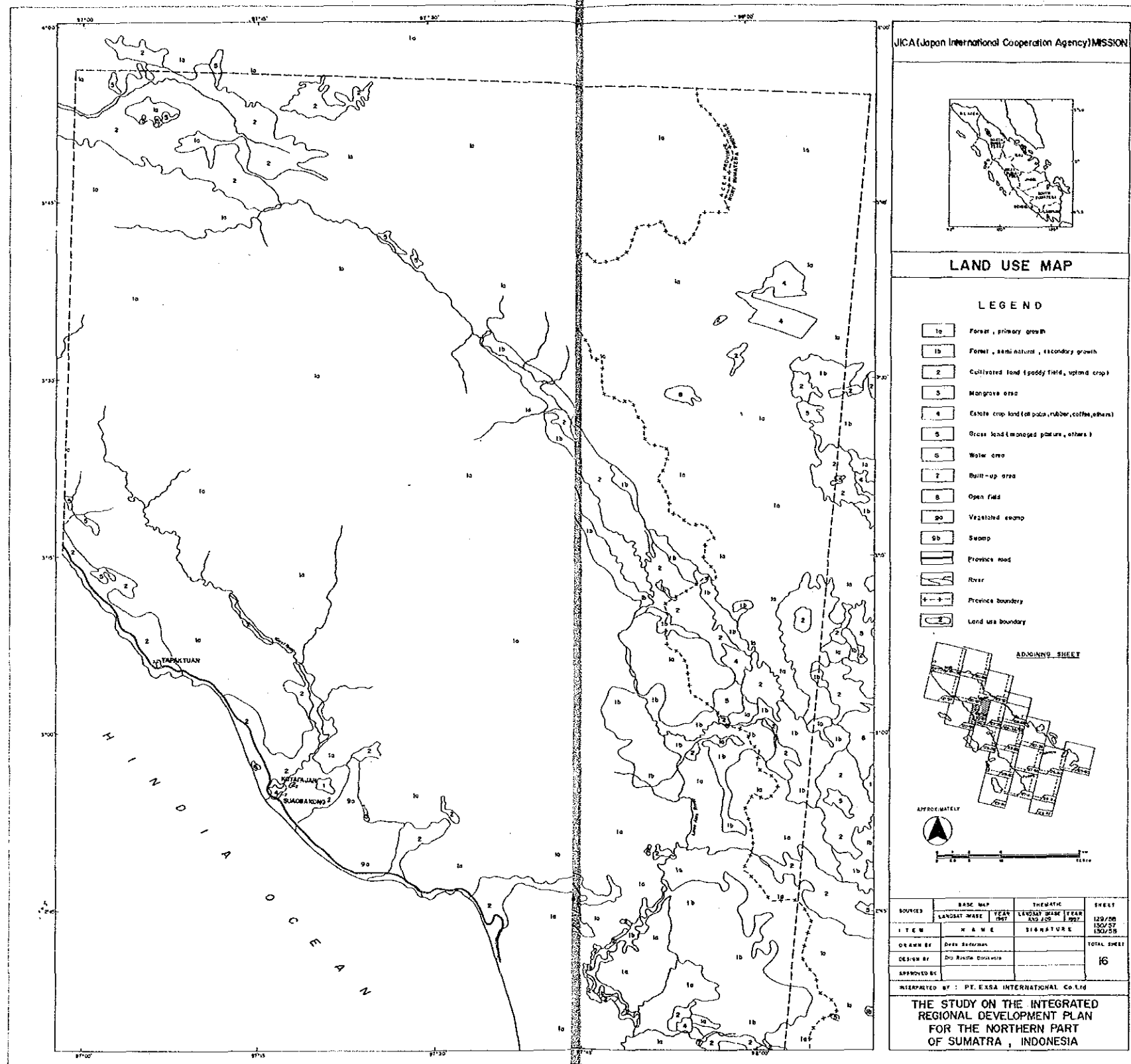
LEGEND

- 1a Forest, primary growth
- 1b Forest, semi natural, secondary growth
- 2 Cultivated land (paddy field, upland crop)
- 3 Mangrove area
- 4 Estate crop land (oil palm, rubber, coffee, etc.)
- 5 Grass land (managed pasture, others)
- 6 Water area
- 7 Built-up area
- 8 Open field
- 9a Vegetated swamp
- 9b Swamp
- Provincial road
- River
- Province boundary
- Land use boundary



SOURCE	BASE MAP		THEMATIC		SHEET
	LANDSAT IMAGE	YEAR	LANDSAT IMAGE	YEAR	
I. C. M.	N. A. M. E.		SIGNATURE		150/57
DESIGN BY	D. S. S. S.				TOTAL SHEET
APPROVED BY	D. S. S. S.				16

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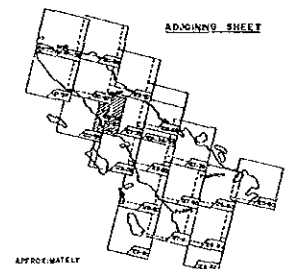
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LAND USE MAP

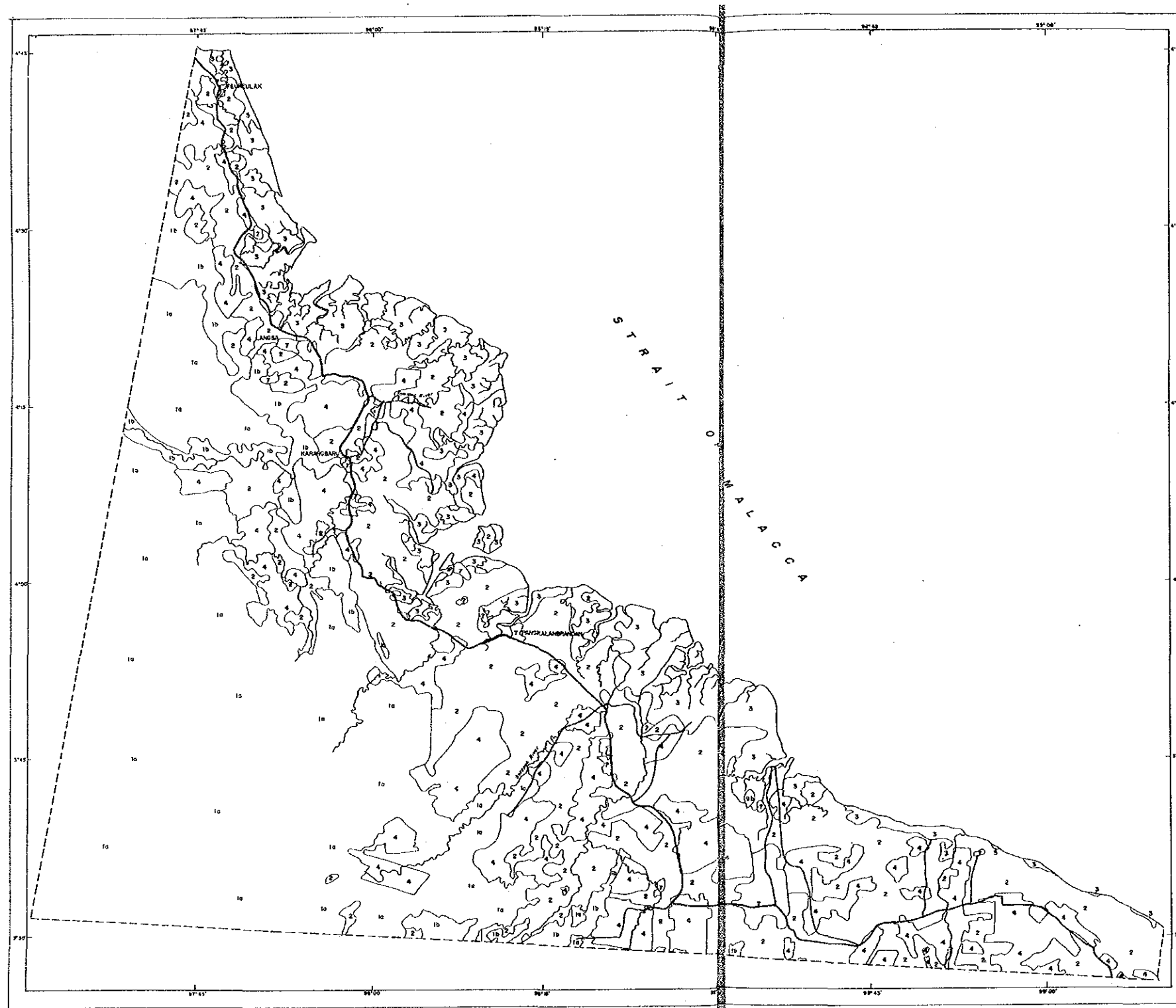
LEGEND

- 1a Forest, primary growth
- 1b Forest, semi natural, secondary growth
- 2 Cultivated land (paddy field, upland crop)
- 3 Mangrove area
- 4 Estate crop land (oil palm, rubber, coffee, others)
- 5 Grass land (managed pasture, others)
- 6 Water area
- 7 Built-up area
- 8 Open field
- 9a Vegetated swamp
- 9b Swamp
- Province road
- River
- Province boundary
- Land use boundary

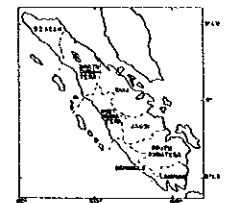


SOURCE	BASIC MAP		THEMATIC		SHEET
	LANDSAT IMAGE	YEAR	LANDSAT IMAGE	YEAR	
ITEM	M A M E		SIGNATURE		TOTAL SHEET
DRAWN BY	Dwi Setiawan				16
DESIGN BY	Dwi Rendra Dwiwata				
APPROVED BY					

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THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN FOR THE NORTHERN PART OF SUMATRA, INDONESIA



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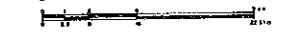
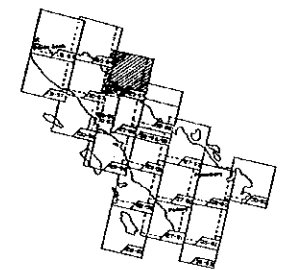


LAND USE MAP

LEGEND

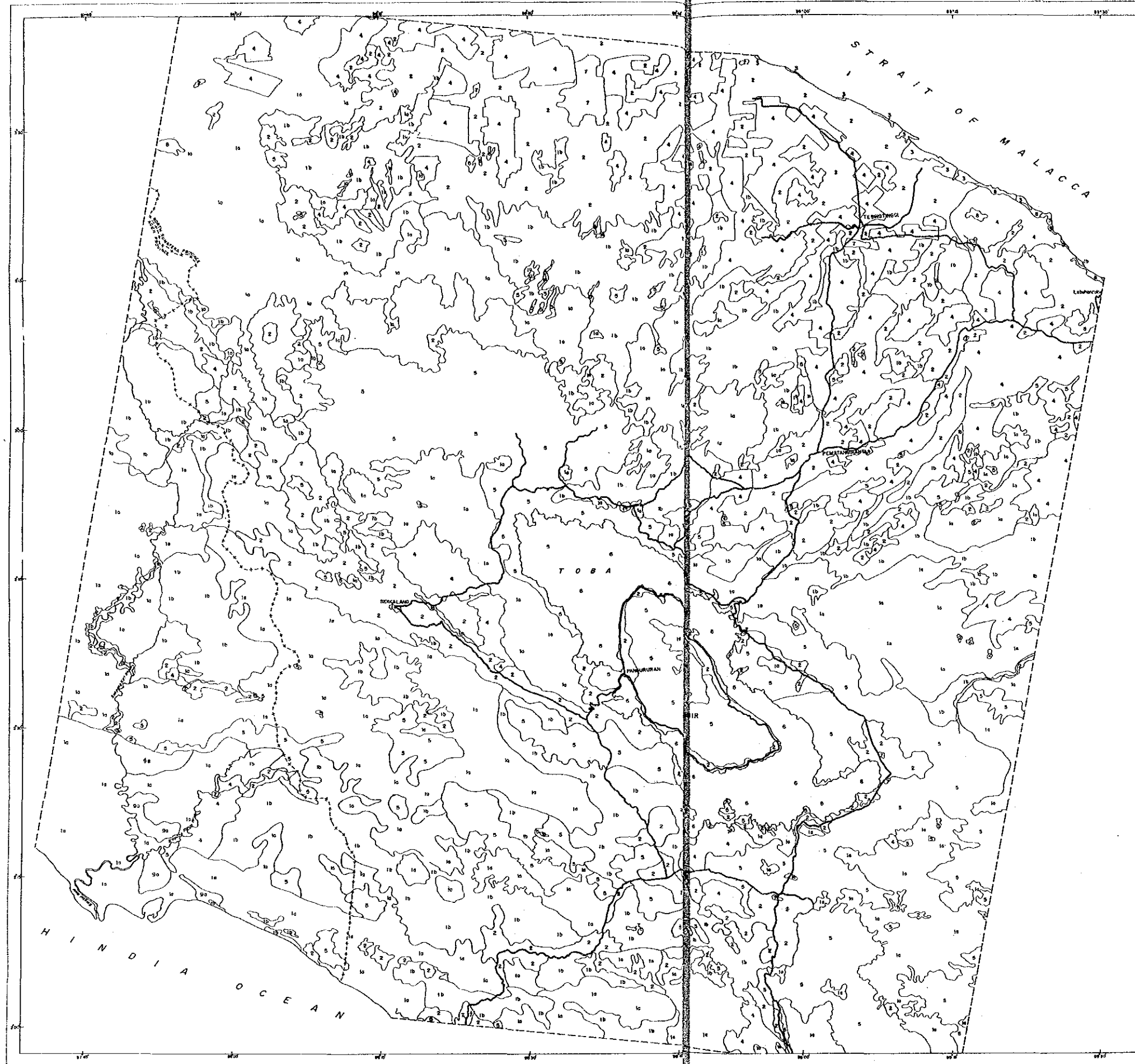
- 16 Primary forest
- 15 Forest, main natural, secondary forest
- 14 Rice field (main, upland crop)
- 13 Mangrove area
- 12 Area crop land (rubber, coffee, sugar)
- 11 Area used (cattle, sheep, goats, etc.)
- 10 Water area
- 9 Built-up area
- 8 Open field
- 7 Vegetated forest
- 6 Swamp
- 5 Paved road
- 4 River
- 3 Province boundary
- 2 Local unit boundary

ADJOINING SHEET



SOURCE	BASE MAP		THEMATIC		SHEET
	LANDSAT IMAGE	YEAR	LAYOUT SHEET	YEAR	
ITEM					129/57
DRAWN BY	K. H. A. M. E.		SIGNATURE		TOTAL SHEET
DESIGN BY	Dr. Rosli Dedyana				
APPROVED BY					

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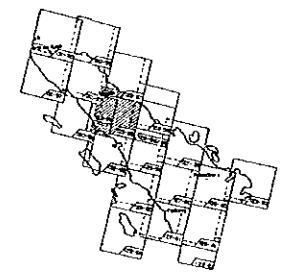


LAND USE MAP

LEGEND

- 1a Forest, primary growth
- 1b Forest, semi natural, secondary growth
- 2 Cultivated land (paddy field, upland crop)
- 3 Mangrove area
- 4 Estate crop land (oil palm, rubber, coffee, others)
- 5 Grass land (managed pasture, others)
- 6 Water area
- 7 Built-up area
- 8 Open field
- 9a Vegetated swamp
- 9b Swamp
- Province road
- River
- Province boundary
- Land use boundary

ADJOINING SHEET

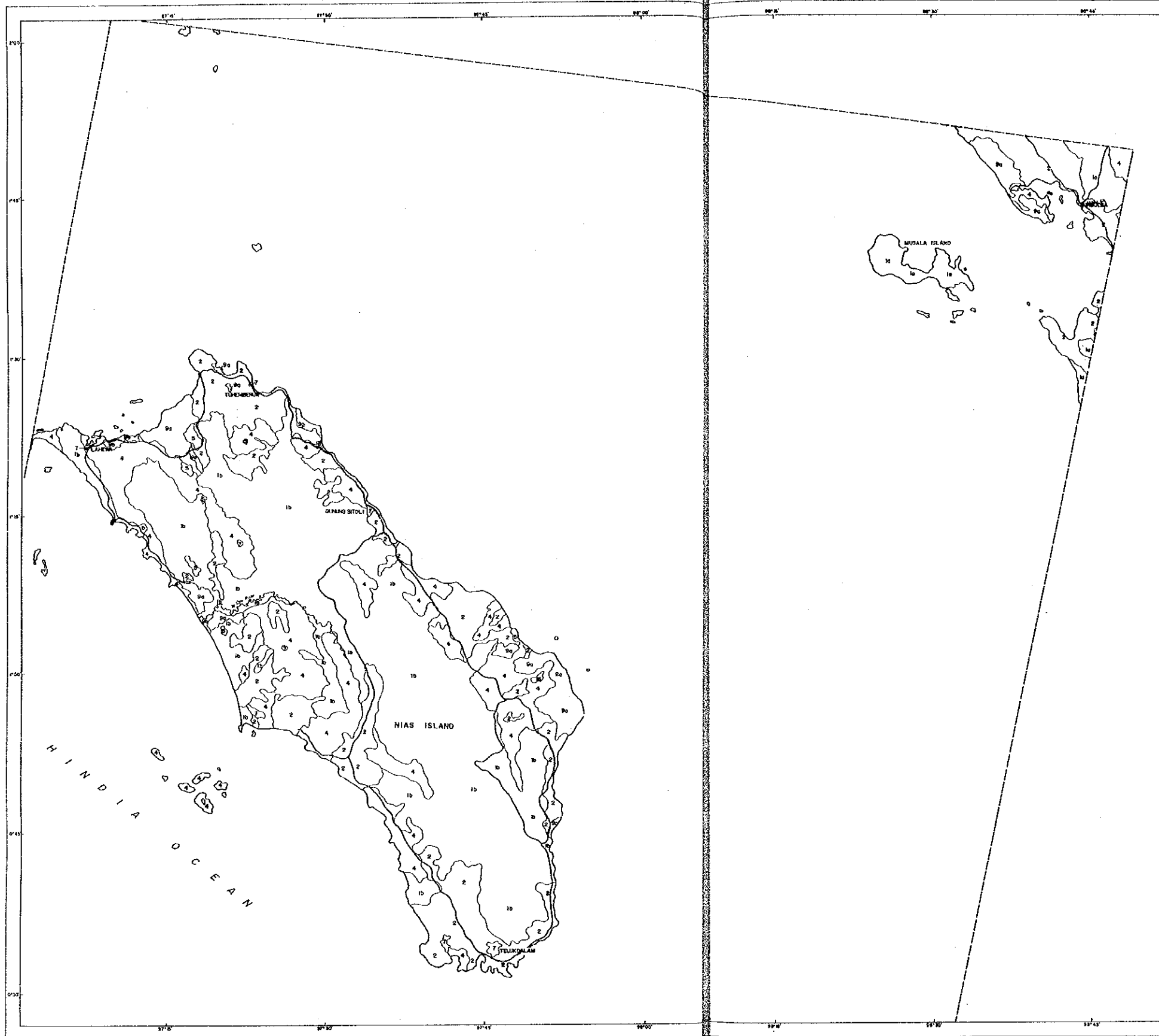


APPROXIMATELY



SOURCE	BASE MAP		THEMATIC		SHEET
	LANDSAT IMAGE	YEAR	LANDSAT IMAGE	YEAR	
ITEM	M A M C		SIGNATURE		129/08
DRAWN BY	Djardjara				TOTAL SHEET
DESIGN BY	Dr. Reza Daryanto				16
APPROVED BY					

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THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN FOR THE NORTHERN PART OF SUMATRA, INDONESIA



JICA (Japan International Cooperation Agency) / INSSON

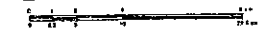
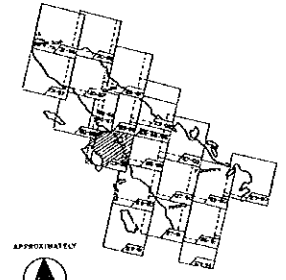


LAND USE MAP

LEGEND

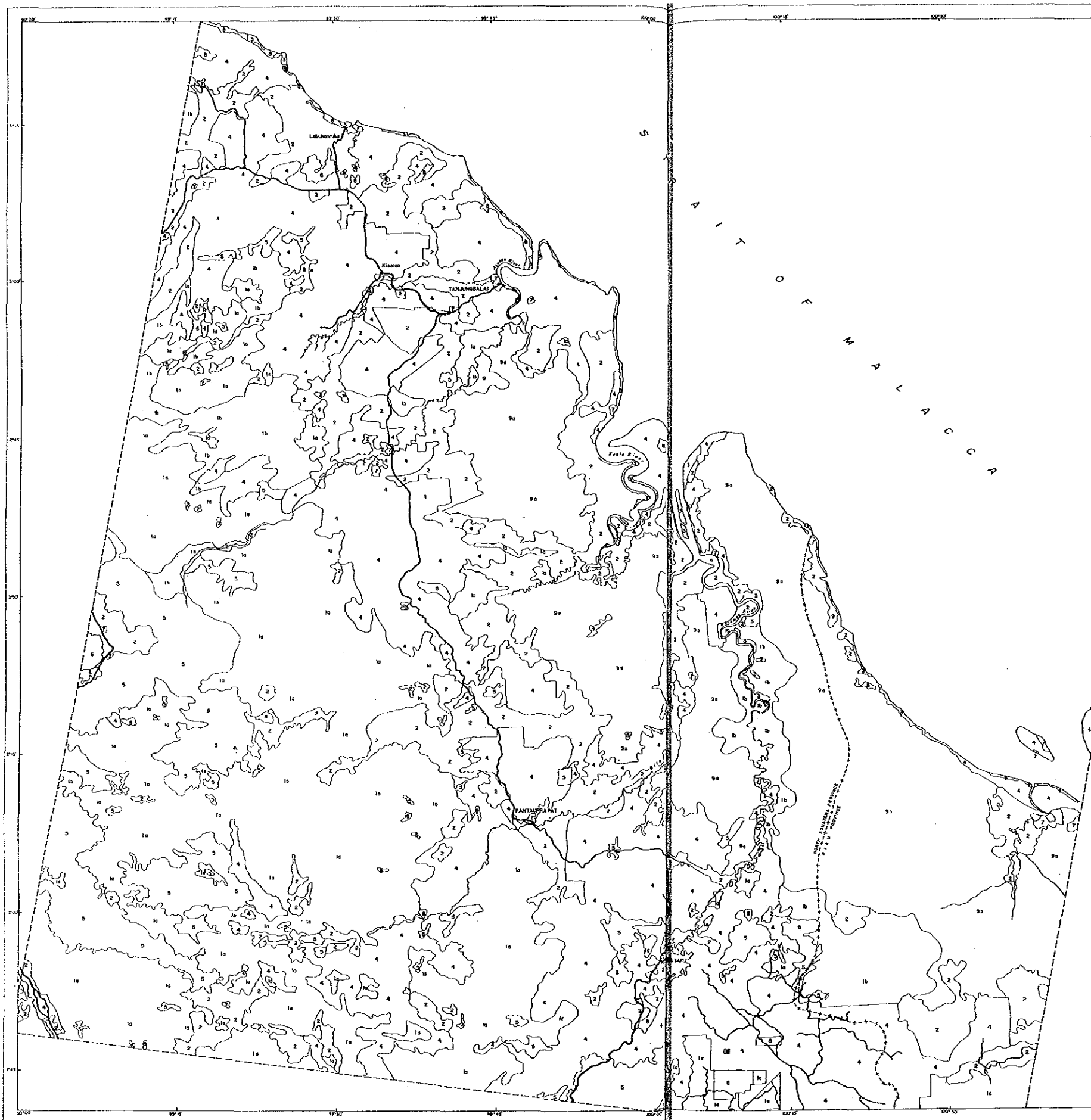
- 1a Forest, primary growth
- 1b Forest, semi natural, secondary growth
- 2 Cultivated land (addy field, upland crop)
- 3 Mangrove area
- 4 Estate crop land (rubber, coconut, coffee, others)
- 5 Grass land (mangrove pasture, others)
- 6 Water area
- 7 Built-up area
- 8 Open field
- 9a Vegetated swamp
- 9b Swamp
- Provice road
- State
- Provice boundary
- Land use boundary

ADJOINING SHEET



SOURCE	BASE MAP	SCALE	DATE	PROJECT NO.	SHEET NO.
	LANDSAT	1:50,000	1982	129/759	16
ITEM	NAME		SIGNATURE		TOTAL SHEET
DRAWN BY	SIA HANUWA				16
DESIGNED BY	SIA HANUWA				
APPROVED BY					
INTERPRETED BY : PT. EXSA INTERNATIONAL Co. Ltd.					

THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN FOR THE NORTHERN PART OF SUMATRA, INDONESIA



JICA (Japan International Cooperation Agency) IMSSION

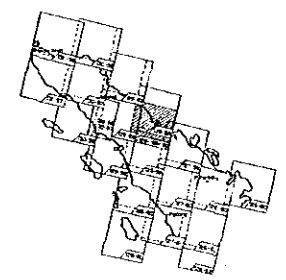


LAND USE MAP

LEGEND

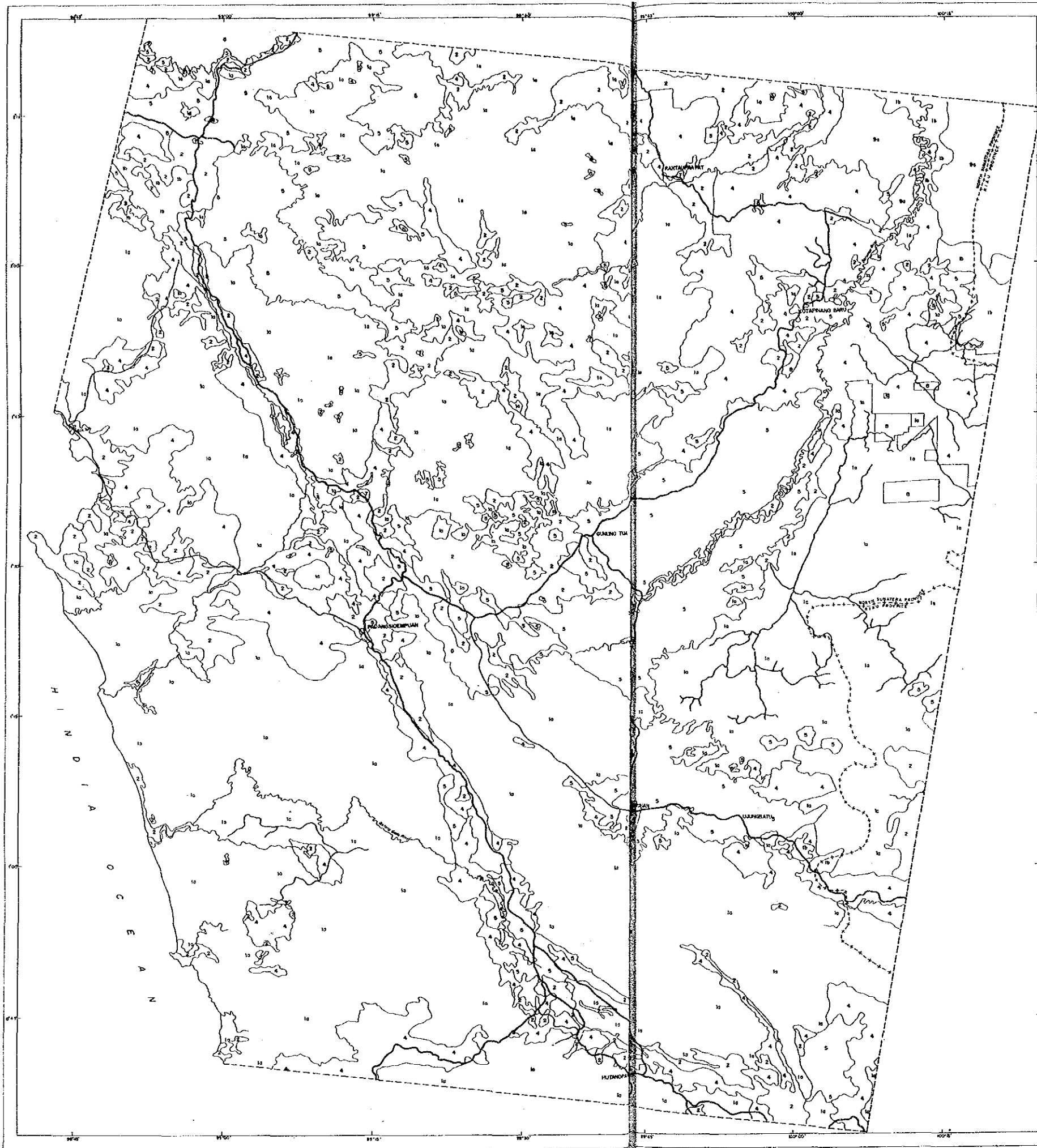
- 10 Forest, primary growth
- 11 Forest, semi natural, secondary growth
- 2 Cultivated food (paddy field, upland crop)
- 3 Mangrove area
- 4 Estate crop land (oil palm, rubber, coffee, etc.)
- 5 Grass land (mangrove pasture, others)
- 6 Water area
- 7 Bath-up area
- 8 Open field
- 9a Vegetated swamp
- 9b Swamp
- Province road
- River
- Province boundary
- Land use boundary

ADJOINING SHEET



SOURCES	DATE MAP		THEMATIC		SHEET
	LANDUSE MADE	YEAR	LANDUSE DISC	YEAR	
Y I Z W	N A W C	1977	128/58	1977	8
			128/59		16
DRAWN BY	Dj. S. H. P.				TOTAL SHEET
DESIGN BY	Drs. R. H. S. D.				16
APPROVED BY					

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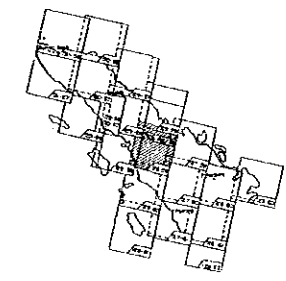


LAND USE MAP

LEGEND

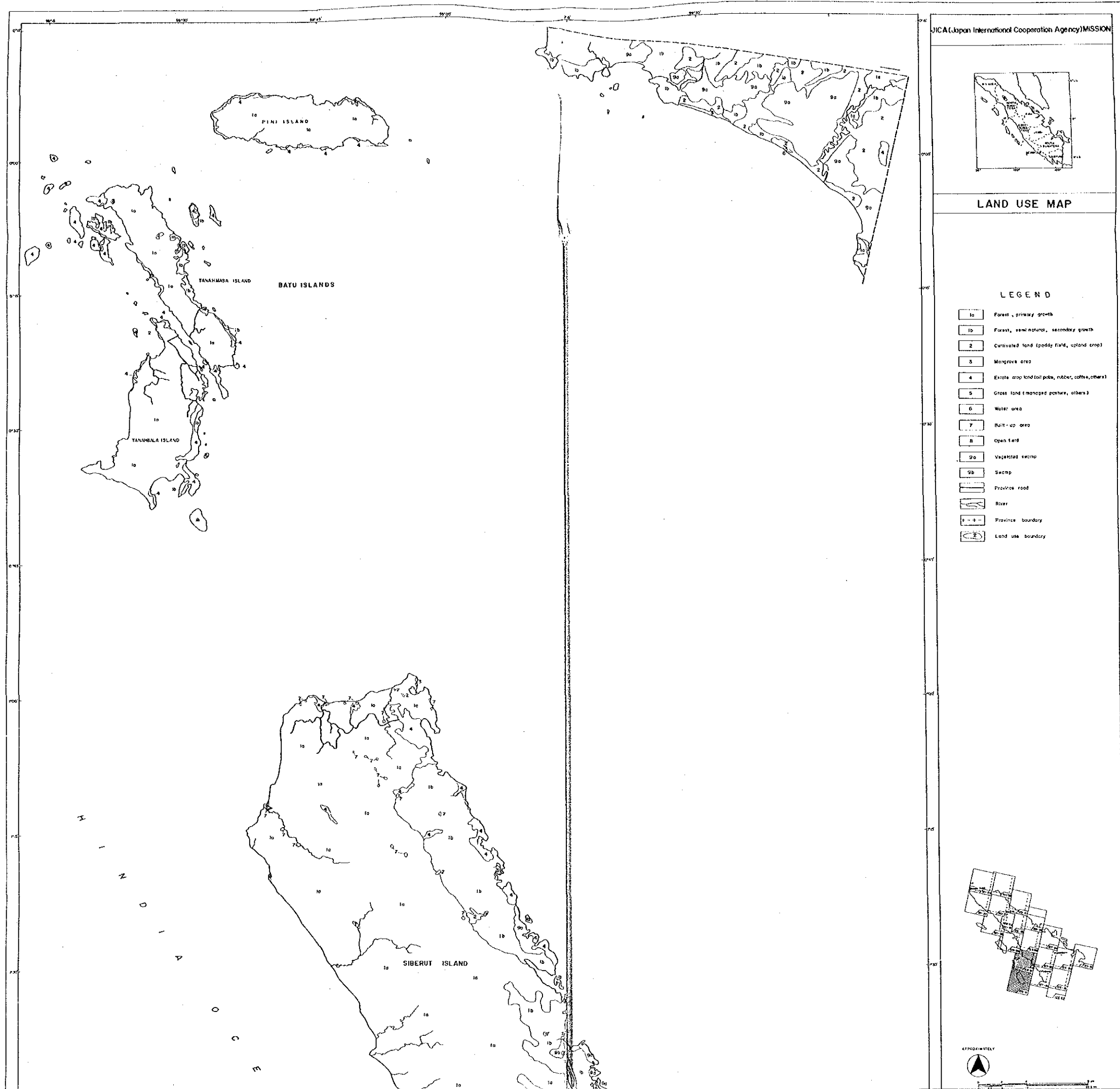
- 1a Forest, primary growth
- 1b Forest, stnd natural, secondary growth
- 2 Cultivated land (paddy field, upland crop)
- 3 Mangrove area
- 4 Estate crop land (oil palm, rubber, coffee, other)
- 5 Grass land (managed pasture, other)
- 6 Water area
- 7 Built-up area
- 8 Open field
- 8a Vegetated swamp
- 8b Swamp
- Province road
- River
- Province boundary
- Land use boundary

ADJOINING SHEET



SOURCES	BASE MAP		THEMATIC		SHEET
	LAKEBAT NAME	YEAR	LAKEBAT NAME	YEAR	
1:10,000	W. S. N. C.	1950	1:25,000	1950	128/59
DRAWN BY	G. S. S. S. S.				TOTAL SHEET
CHECKED BY	G. S. S. S. S.				16
APPROVED BY					

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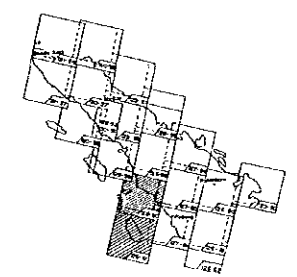
JICA (Japan International Cooperation Agency) MISSION



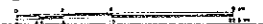
LAND USE MAP

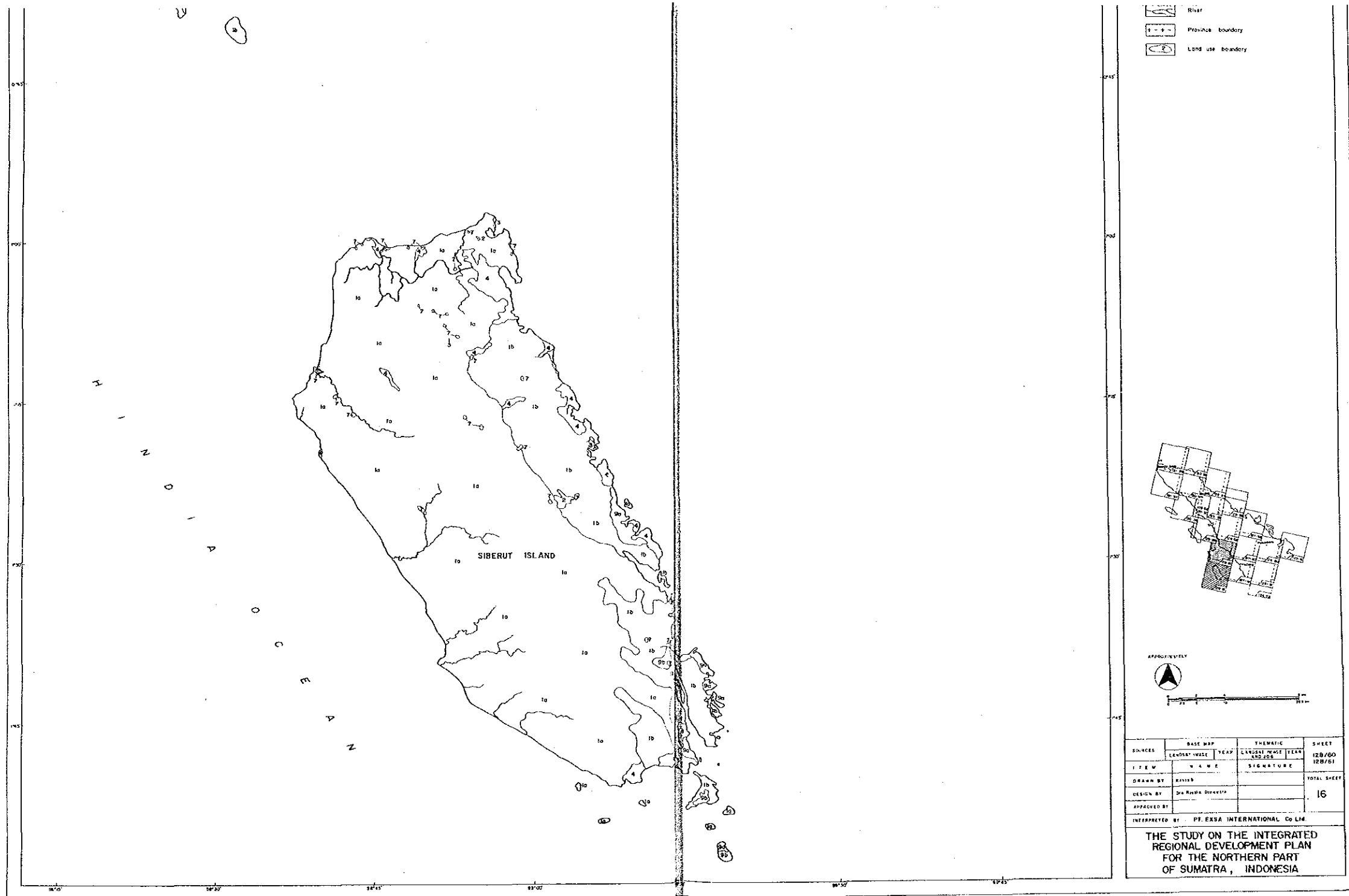
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


- 1a Forest, primary growth
- 1b Forest, semi natural, secondary growth
- 2 Cultivated land (paddy field, upland crop)
- 3 Mangrove area
- 4 Estate crop land (oil palm, rubber, coffee, others)
- 5 Grass land (managed pasture, others)
- 6 Water area
- 7 Built-up area
- 8 Open field
- 9a Vegetated scrub
- 9b Scrub
- Province road
- River
- Province boundary
- Land use boundary

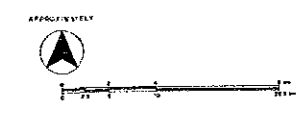
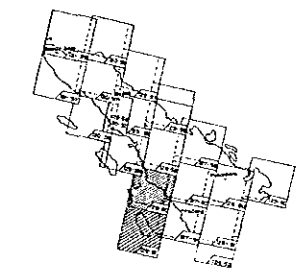


APPROXIMATELY





-  River
-  Province boundary
-  Land use boundary



SOURCES	BASE MAP		THEMATIC		SHEET
	SCALE	YEAR	SCALE	YEAR	
1:25,000	1960	1:25,000	1960	128/60	TOTAL SHEET
				128/61	
DRAWN BY	NAME		SIGNATURE		16
DESIGN BY	NAME		SIGNATURE		
APPROVED BY	NAME		SIGNATURE		

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 THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN FOR THE NORTHERN PART OF SUMATRA, INDONESIA



JICA (Japan International Cooperation Agency) / MESSON

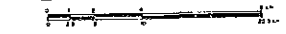
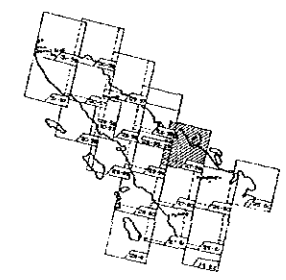


LAND USE MAP

LEGEND

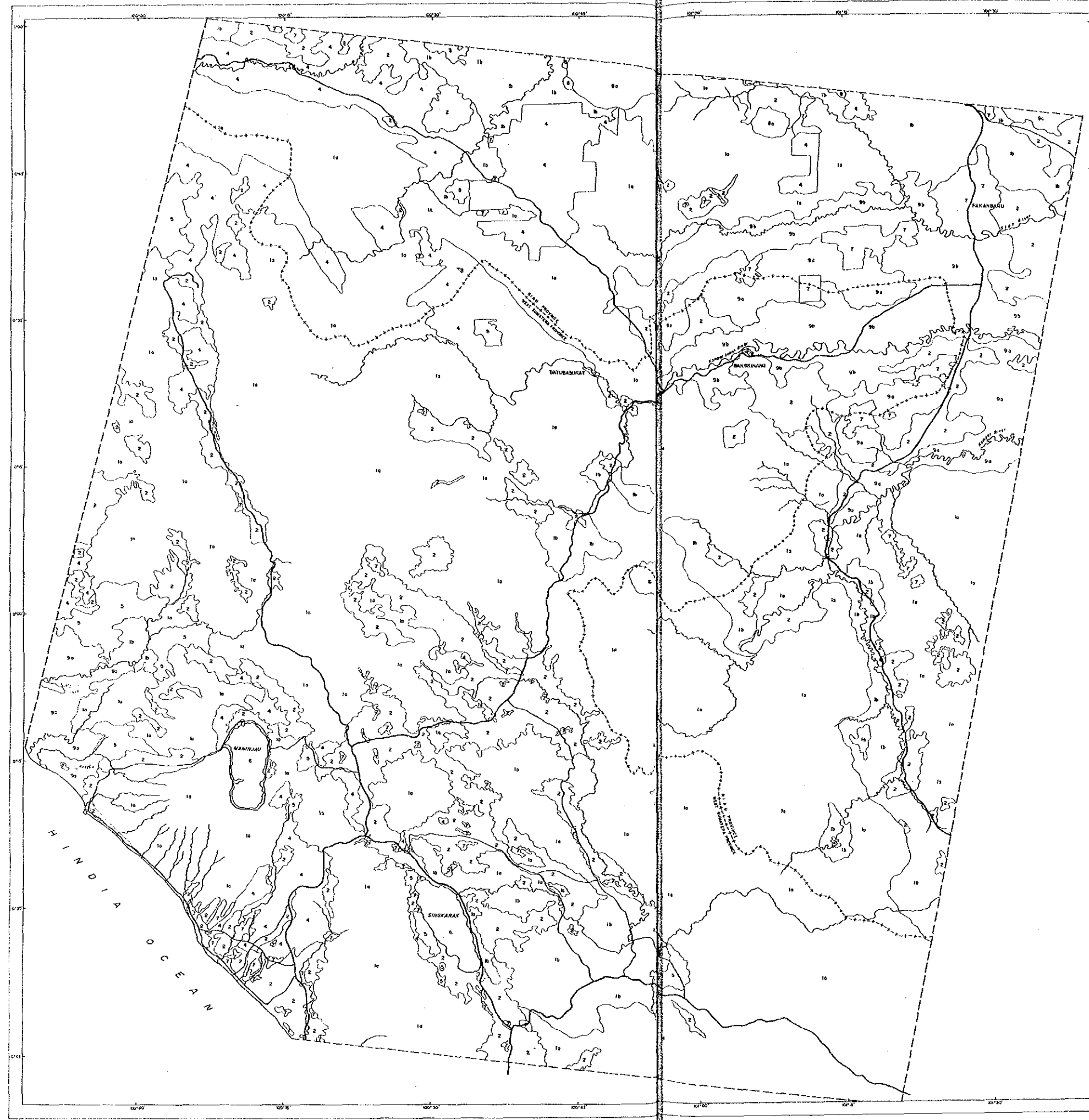
- 1a Forest, primary growth
- 1b Forest, semi natural, secondary growth
- 2 Cultivated land (paddy field, upland crop)
- 3 Mangrove area
- 4 Estate crop (rubber, palm, rubber, coffee, others)
- 5 Grass land (impounded pasture, others)
- 6 Water area
- 7 Built-up area
- 8 Open field
- 9a Vegetated swamp
- 9b Swamp
- Province road
- River
- Province boundary
- Land use boundary

ADJOINING SHEET



SOURCES	BASE MAP		THEMATIC		SHEET
	LANDSAT IMAGE	YEAR	LANDSAT IMAGE	YEAR	
ITC M	N A M C		SIGNATURE		127/59
DRAWN BY	DIAKUPA				TOTAL SHEET
DESIGN BY	DIE BANGUN DELUWA				16
APPROVED BY					

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 THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN FOR THE NORTHERN PART OF SUMATRA, INDONESIA

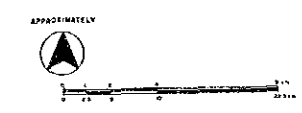
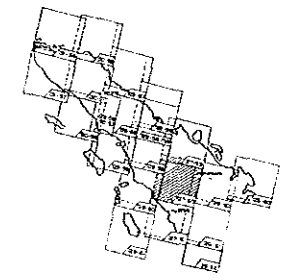


LAND USE MAP

LEGEND

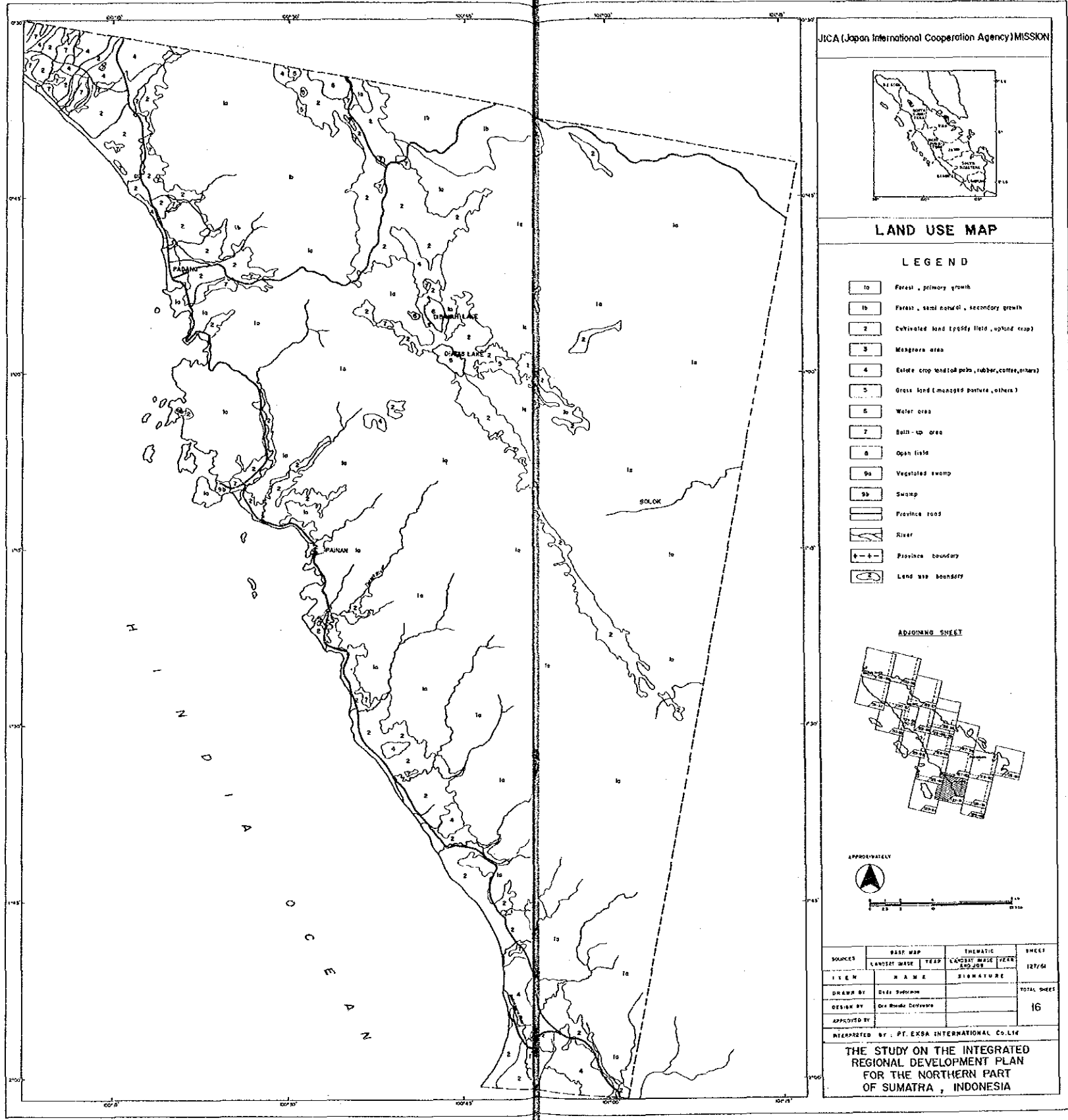
- 1a Forest, primary growth
- 1b Forest, semi natural, secondary growth
- 2 Cultivated land (paddy field, upland crop)
- 3 Non-grass area
- 4 Estate crop land (lat palm, rubber, coffee, others)
- 5 Grass land (managed pasture, others)
- 6 Water area
- 7 Built-up area
- 8 Open field
- 9a Vegetated swamp
- 9b Swamp
- Provision road
- River
- Province boundary
- Land use boundary

ADJOINING SHEET



SOURCES	BASE MAP		THEMATIC		SHEET
	LANGSAT IMAGE	YEAR	CAPSAT IMAGE	YEAR	
ITEM	N. S. W. E.		SIGNATURE		TOTAL SHEET 16
DRAWN BY	A. H. M. S. H.				
DESIGN BY	Drs. H. M. S. H.				
APPROVED BY					
INTERFACED BY	PT. EXSA INTERNATIONAL Co. Ltd.				

THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN FOR THE NORTHERN PART OF SUMATRA, INDONESIA



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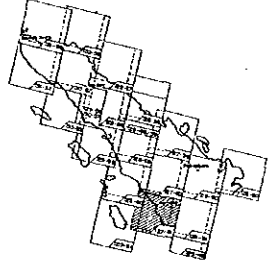


LAND USE MAP

LEGEND

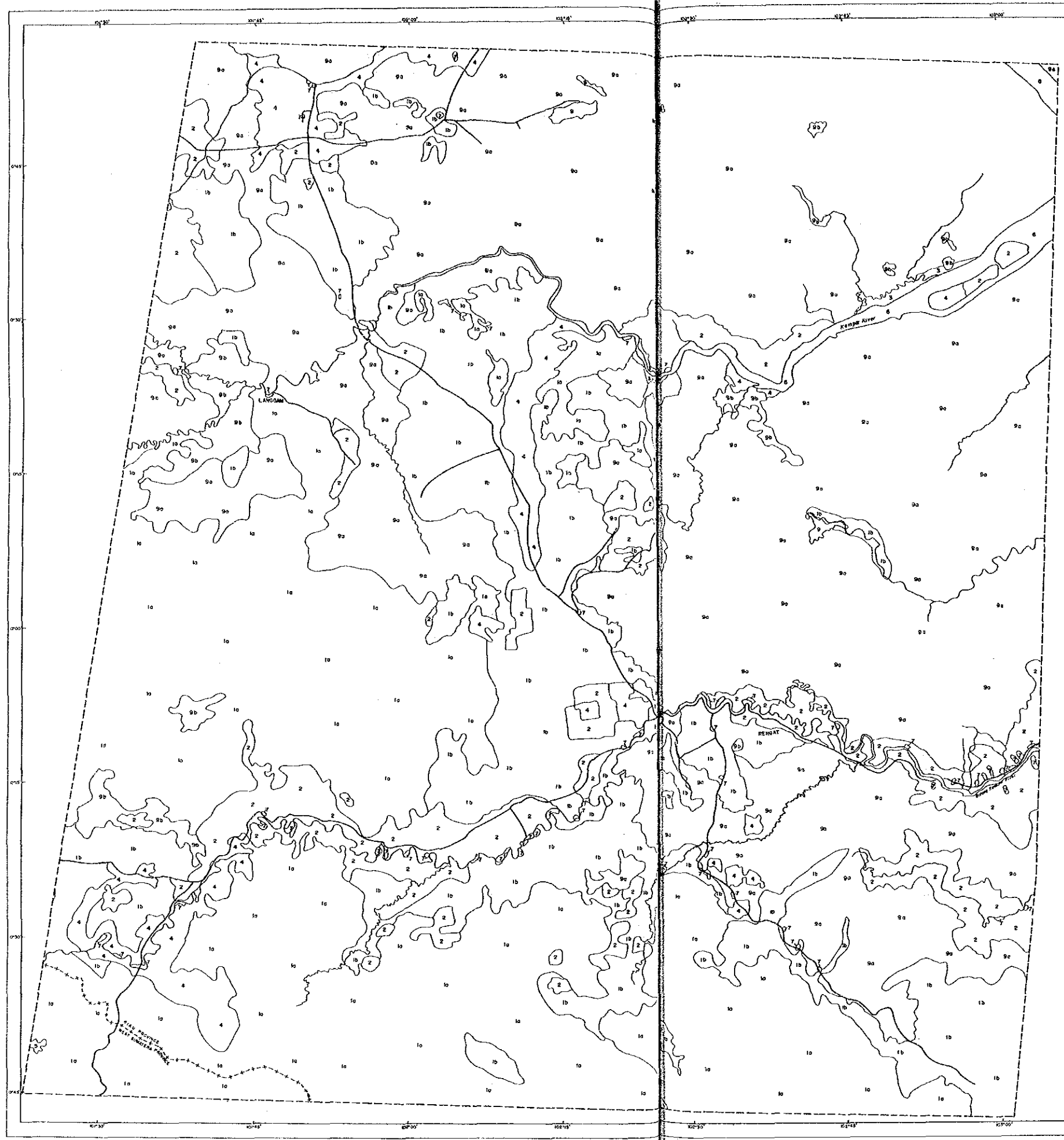
- 1a Forest, primary growth
- 1b Forest, semi natural, secondary growth
- 2 Cultivated land (paddy field, upland crop)
- 3 Mangrove area
- 4 Estate crop (oil palm, rubber, coffee, others)
- 5 Grass land (managed pasture, others)
- 6 Water area
- 7 Salt-tp area
- 8 Open land
- 9a Vegetated swamp
- 9b Swamp
- Province road
- River
- Province boundary
- Land use boundary

ADJOINING SHEET



SOURCE	BASE MAP		THEMATIC		SHEET
	LANDSAT IMAGE	TOP	LANDSAT IMAGE	YEAR	
1:1:1	M A M E		SUMAYUM E		12/7/61
DRAWN BY	Eti Satrio				TOTAL SHEET
DESIGN BY	Gita Ronda Dede				16
APPROVED BY					

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 THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN FOR THE NORTHERN PART OF SUMATRA, INDONESIA



JICA (Japan International Cooperation Agency) MISSION

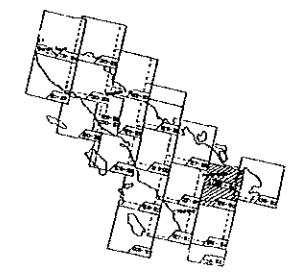


LAND USE MAP

LEGEND

- 1a Forest, primary growth
- 1b Forest, semi natural, secondary growth
- 2 Cultivated land (paddy field, upland crop)
- 3 Mangrove area
- 4 Estate crop land (oil palm, rubber, coffee, others)
- 5 Grass land (managed pasture, others)
- 6 Water area
- 7 Built-up area
- 8 Open field
- 9a Vegetated swamp
- 9b Swamp
- Province road
- River
- Province boundary
- Land use boundary

ADJOINING SHEET

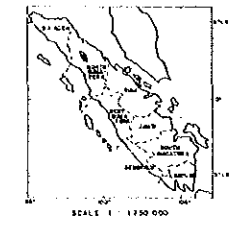


SOURCES	BASE MAP		AERIAL PHOTO		SHEET
	LANDSAT IMAGE	YEAR	YEAR	DATE	
ITEM	M. A. W. K.			SIGNATURE	TOTAL SHEET
DRAWN BY	Enyok				
DESIGN BY	Dr. Paulo Devesa				
APPROVED BY					16

INTERPRETED BY : PT. EXSA INTERNATIONAL Co. Ltd.
 THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN FOR THE NORTHERN PART OF SUMATRA, INDONESIA



JICA (Japan International Cooperation Agency) MISSION

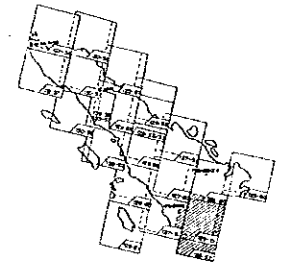


LAND USE MAP

LEGEND

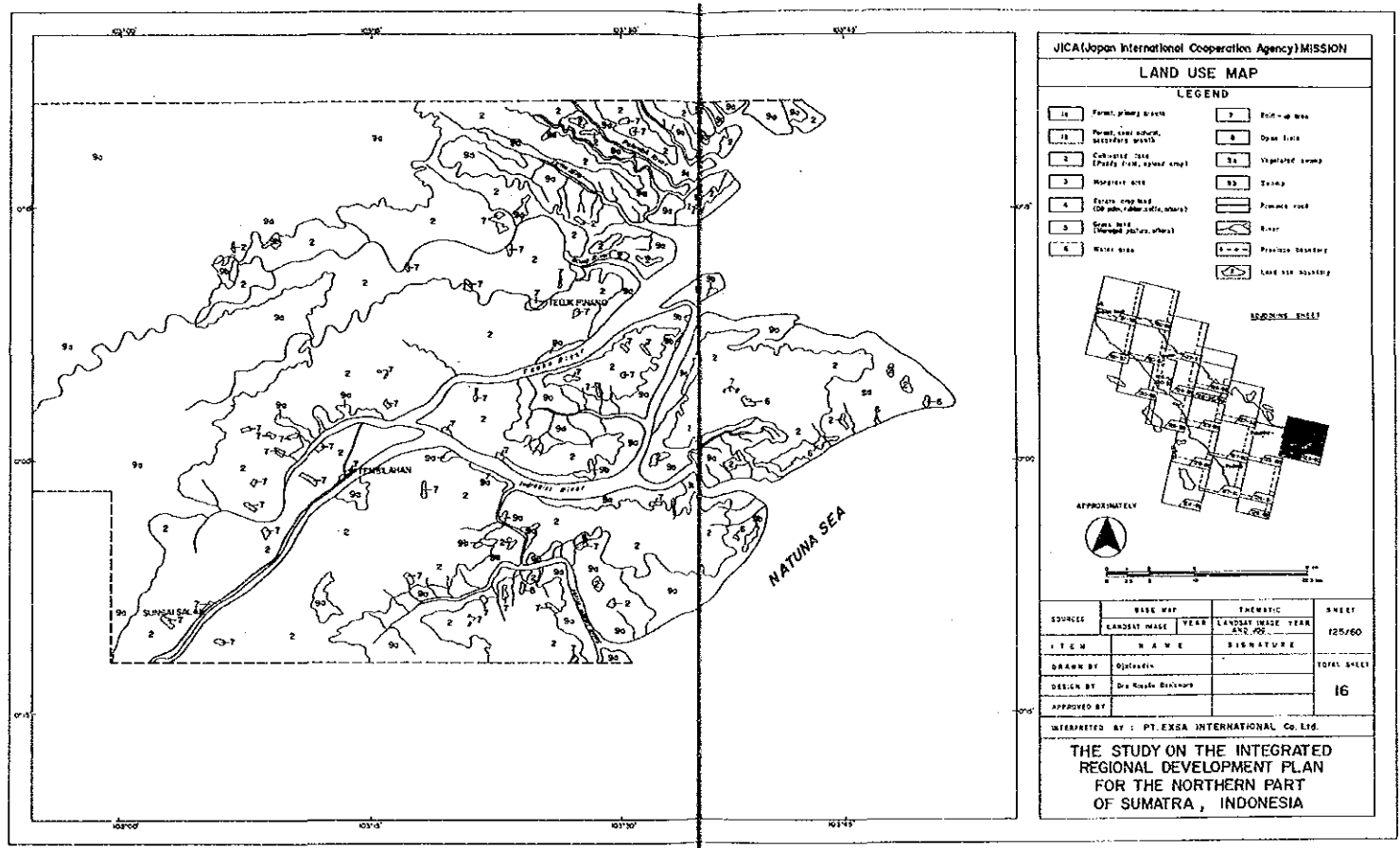
- 1a Forest, primary growth
- 1b Forest, seed natural, secondary growth
- 2 Cultivated land (paddy field, upland crop)
- 3 Mangrove area
- 4 Cash crop land (oil palm, rubber, coffee, etc.)
- 5 Grass land (managed pasture, others)
- 6 Water area
- 7 Built-up area
- 8 Open field
- 9a Vegetated swamp
- 9b Swamp
- Provincial road
- River
- Produce boundary
- Land use boundary

ADJOINING SHEET



SOURCE	BASE MAP		THEMATIC		SHEET
	LANDSAT IMAGE	YEAR	LANDSAT IMAGE	YEAR	
ITEM	N.A.M.E.		SIGNATURE		126/61 126/62
DRAWN BY					TOTAL SHEET
DESIGN BY	Dr. MASTA DUNYAP				16
APPROVED BY					
INTERPRETER BY : PT. EXSA INTERNATIONAL Co. Ltd					

THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN FOR THE NORTHERN PART OF SUMATRA, INDONESIA

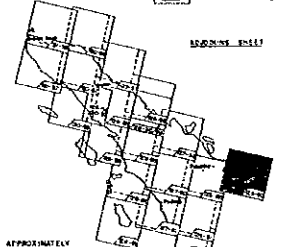


JICA (Japan International Cooperation Agency) MISSION

LAND USE MAP

LEGEND

- 10 Forest, primary forest
- 11 Forest, tree rubber, immature forest
- 12 Cultivated rice (Planted rice, open crop)
- 13 Rice paddy area
- 14 Estate crop area (Rubber, palm oil, others)
- 15 Other area
- 16 Rice - up area
- 17 Open land
- 18 Vegetated swamp
- 19 Swamp
- 20 Primary forest
- 21 River
- 22 Province boundary
- 23 Land use boundary



SOURCE	BASE MAP		THEMATIC		SHEET
	LANDSAT IMAGE	YEAR	LANDSAT IMAGE	YEAR	
ITGM	N.A.W.E.		SIGNATURE		125/60
DRAWN BY	Gjitratin				TOTAL SHEETS
DESIGN BY	Dr. Nuzli Bakhari				16
APPROVED BY					

INTERPRETTED BY : PT. EXSA INTERNATIONAL Co. Ltd.

THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN FOR THE NORTHERN PART OF SUMATRA, INDONESIA

