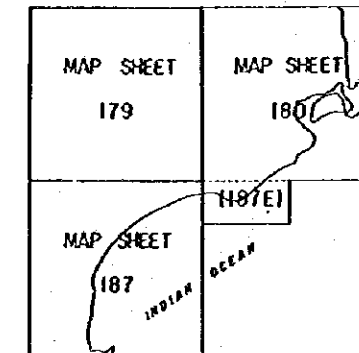


INDEX



LEGEND

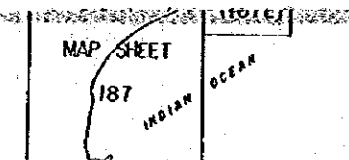
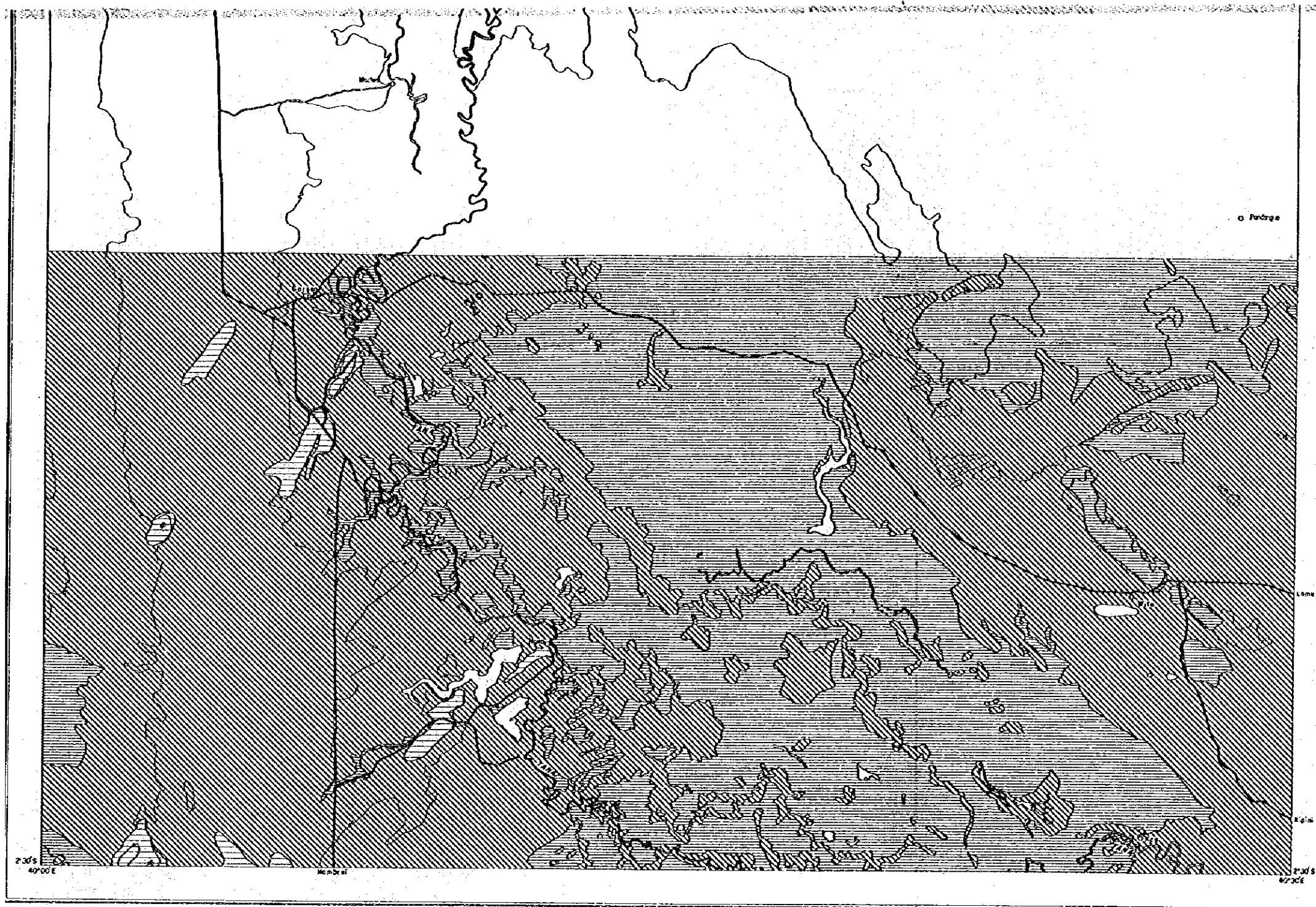
RESISTANCE TO EROSION

- R1 VERY HIGH RESISTANCE
- R2 HIGH RESISTANCE
- R3 MODERATE RESISTANCE
- R4 SLIGHT RESISTANCE
- R5 VERY SLIGHT RESISTANCE
- WATER

Land classification criteria

Rating of land quality: Resistance to erosion

subrating	1	2	3	4	5
land qualities					
slope class	A, AB		B, BC, C		CD, D
agro-climatic zone	I, II	III	IV, V, VI, VII		
erodability	none	slight	moderate	strong	very strong
slope	50	50 - 200	200		



LEGEND

RESISTANCE TO EROSION

- R1 VERY HIGH RESISTANCE
- R2 HIGH RESISTANCE
- R3 MODERATE RESISTANCE
- R4 SLIGHT RESISTANCE
- R5 VERY SLIGHT RESISTANCE
- WATER

Land classification criteria

Rating of land quality: Resistance to erosion

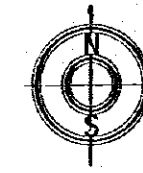
subrating	1	2	3	4	5
land qualities					
slope class	A, AB		B, BC, C		CD, D
agro-climatic zone	I, II	III	IV, V, VI, VII		
erodability	none	slight	moderate	strong	very strong
slope length (m)	50	50-200	200		
final rating	summed subrating				
R 1	4-6		very high resistance		
R 2	7-9		high resistance		
R 3	10-12		moderate resistance		
R 4	13-15		slight resistance		
R 5	16-18		very slight resistance		

SHEET HISTORY

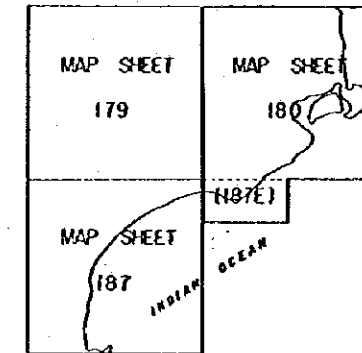
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Field survey 1981-1982
 Evaluation 1983
 Printed in 1984





INDEX



LEGEND

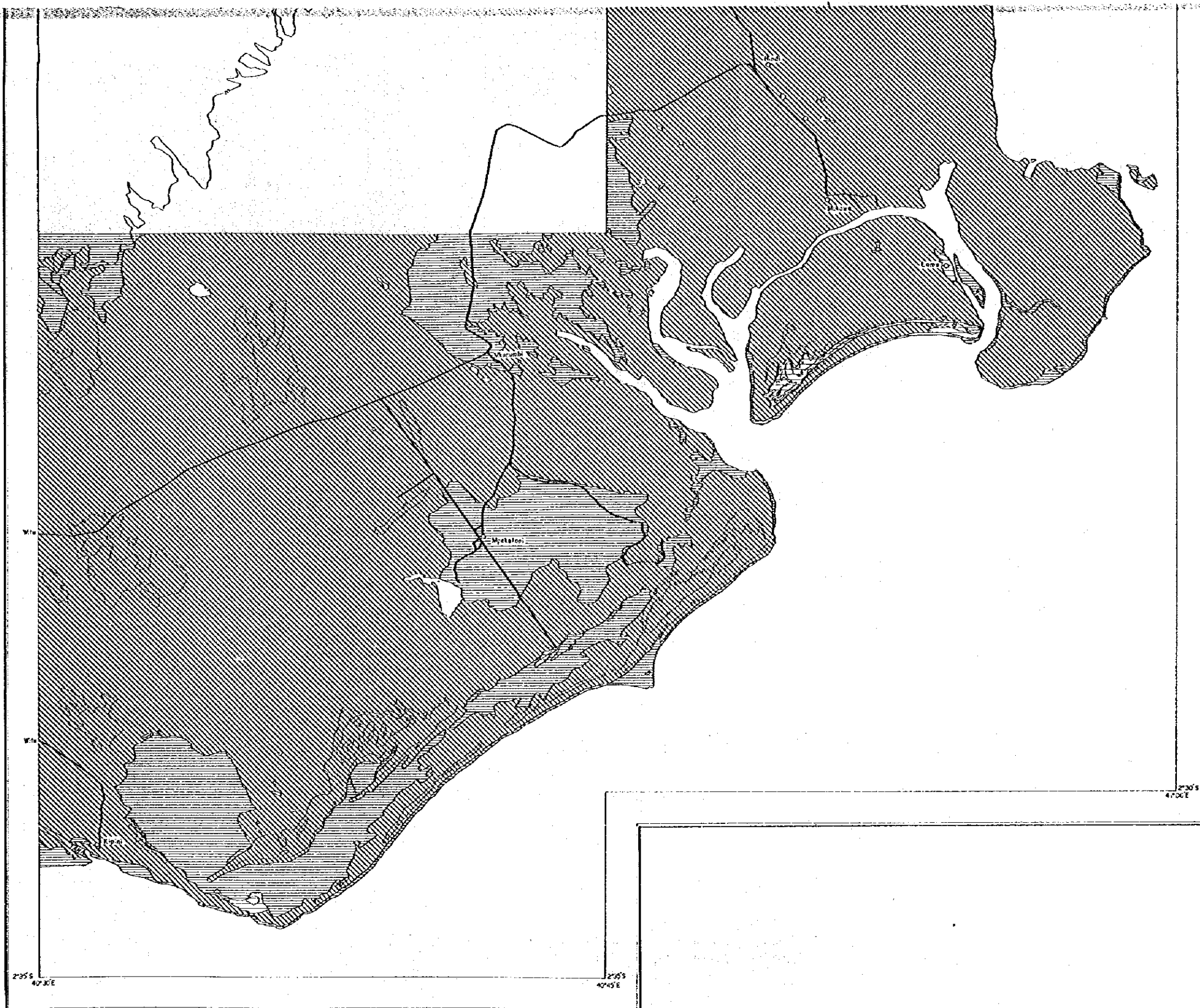
RESISTANCE TO EROSION

- R1 VERY HIGH RESISTANCE
- R2 HIGH RESISTANCE
- R3 MODERATE RESISTANCE
- R4 SLIGHT RESISTANCE
- R5 VERY SLIGHT RESISTANCE
- WATER

Land classification criteria

Rating of land quality : Resistance to erosion

Substrating land qualities	1	2	3	4	5
slope class	A, AB		B, BC, C		CD, D
agro-climatic zone	I, II	III	IV, V, VI, VII		
erodibility	none	slight	moderate	strong	very strong
slope length (m)	50	50-200	200		



LEGEND

RESISTANCE TO EROSION

- R1 VERY HIGH RESISTANCE
- R2 HIGH RESISTANCE
- R3 MODERATE RESISTANCE
- R4 SLIGHT RESISTANCE
- R5 VERY SLIGHT RESISTANCE
- WATER

Land classification criteria

Rating of land quality: Resistance to erosion

subrating	1	2	3	4	5
land qualities					
slope class	A, AB		B, BC, C		CD, D
agro-climatic zone	I, II	III	IV, V, VI, VII		
erodability	none	slight	moderate	strong	very strong
slope length (m)	50	50-200	200		
final rating	summed subrating				
R 1	4-6		very high resistance		
R 2	7-9		high resistance		
R 3	10-12		moderate resistance		
R 4	13-15		slight resistance		
R 5	16-18		very slight resistance		

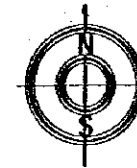
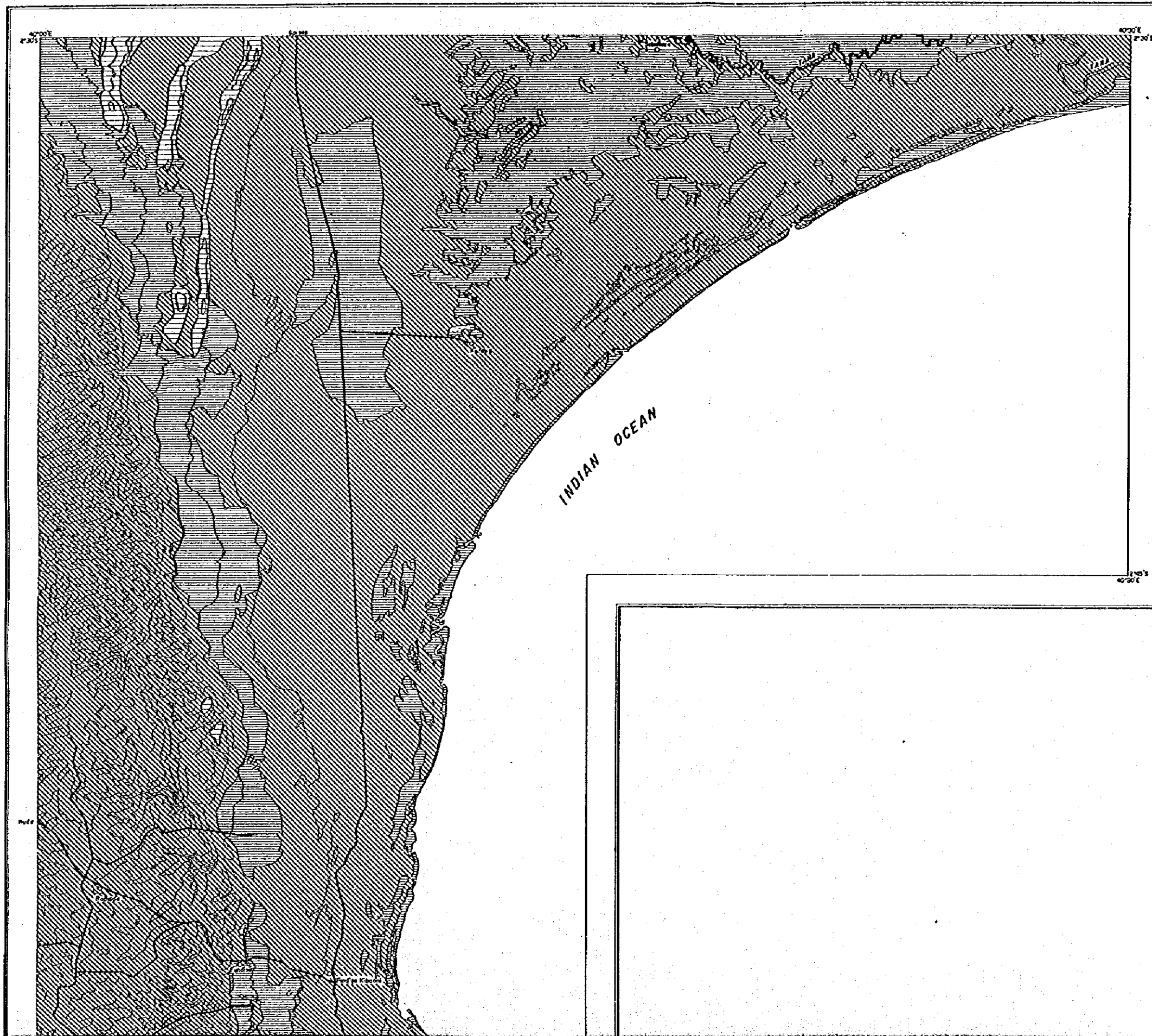
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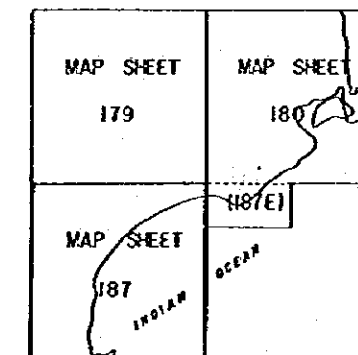
Field survey 1981-1982
Evolution 1983
Printed in 1984



HEIGHTS IN METRES



INDEX



LEGEND

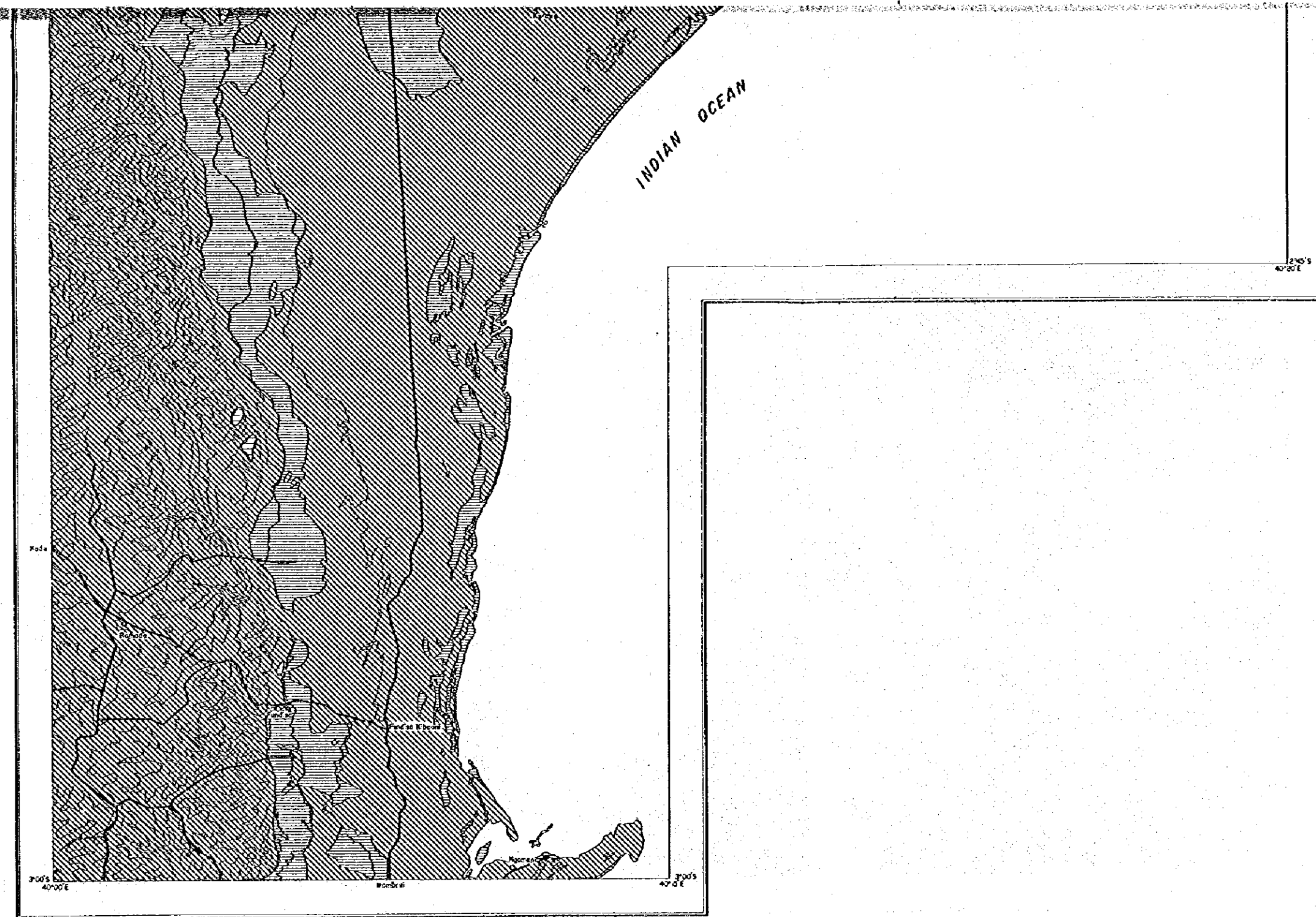
RESISTANCE TO EROSION

- R1 VERY HIGH RESISTANCE
- R2 HIGH RESISTANCE
- R3 MODERATE RESISTANCE
- R4 SLIGHT RESISTANCE
- R5 VERY SLIGHT RESISTANCE
- WATER

Land classification criteria

Rating of land quality: Resistance to erosion

subrating land qualities	1	2	3	4	5
slope class	A, AB		B, BC, C		CD, D
agro-climatic zone	I, II	III	(IV, V, VI, VII)		
erosion	none	slight	moderate	strong	very severe



MAP SHEET
187
INDIAN OCEAN

LEGEND

RESISTANCE TO EROSION

- R1 VERY HIGH RESISTANCE
- R2 HIGH RESISTANCE
- R3 MODERATE RESISTANCE
- R4 SLIGHT RESISTANCE
- R5 VERY SLIGHT RESISTANCE
- WATER

Land classification criteria

Rating of land quality: Resistance to erosion

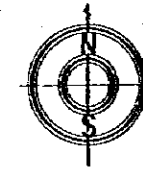
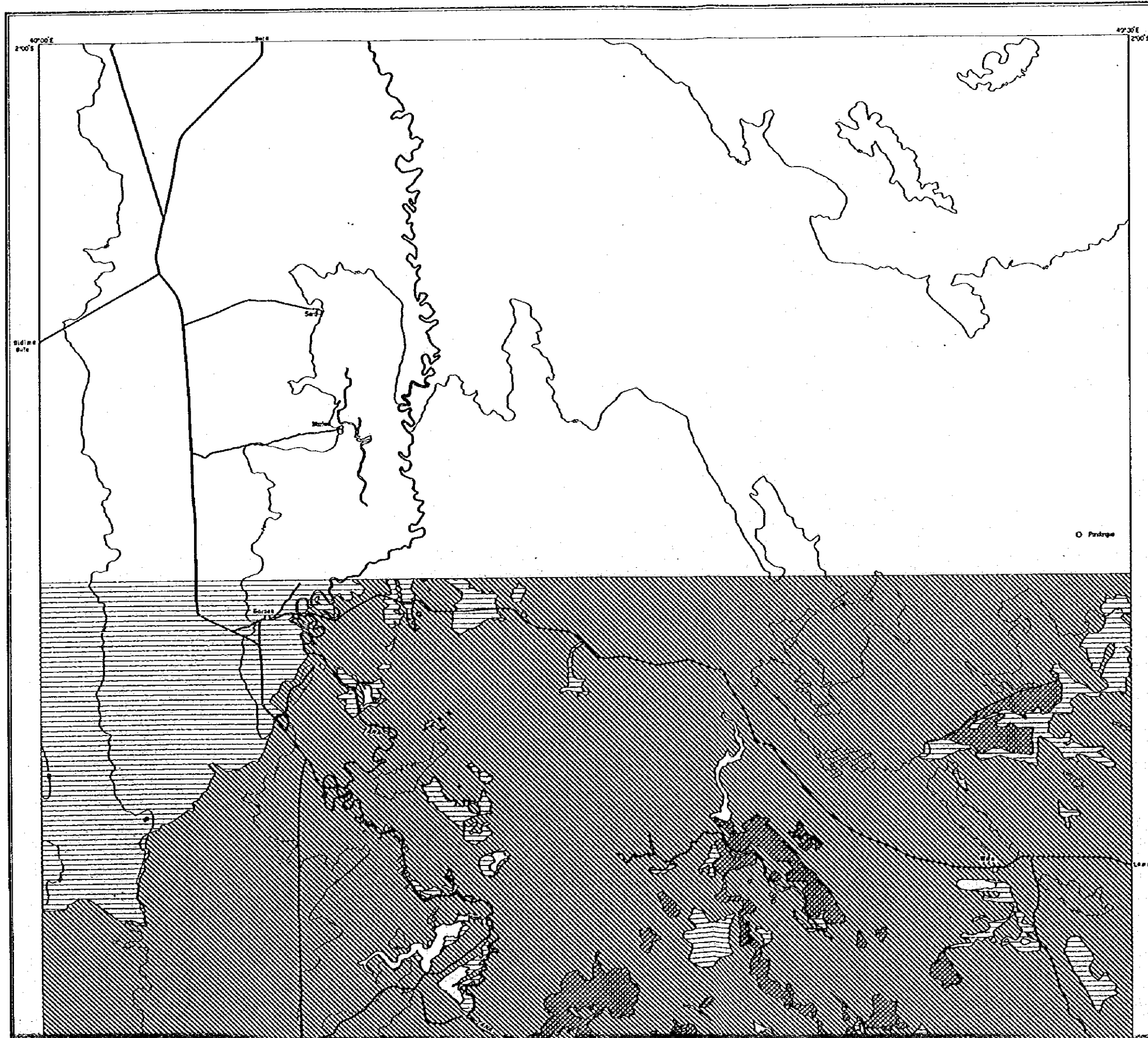
subrating	1	2	3	4	5
land qualities					
slope class	A, AB		B, BC, C		CD, D
agro-climatic zone	I, II	III	IV, V, VI, VII		
erodibility	none	slight	moderate	strong	very strong
slope length (m)	50	50-200	200		
final rating	summed subrating				
R 1	4 - 6		very high resistance		
R 2	7 - 9		high resistance		
R 3	10 - 12		moderate resistance		
R 4	13 - 15		slight resistance		
R 5	16 - 18		very slight resistance		

SHEET HISTORY

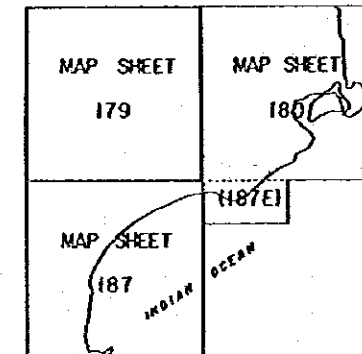
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Field survey 1981-1982
Evaluation 1983
Printed in 1984





INDEX



LEGEND

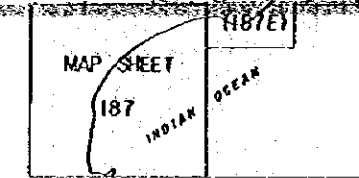
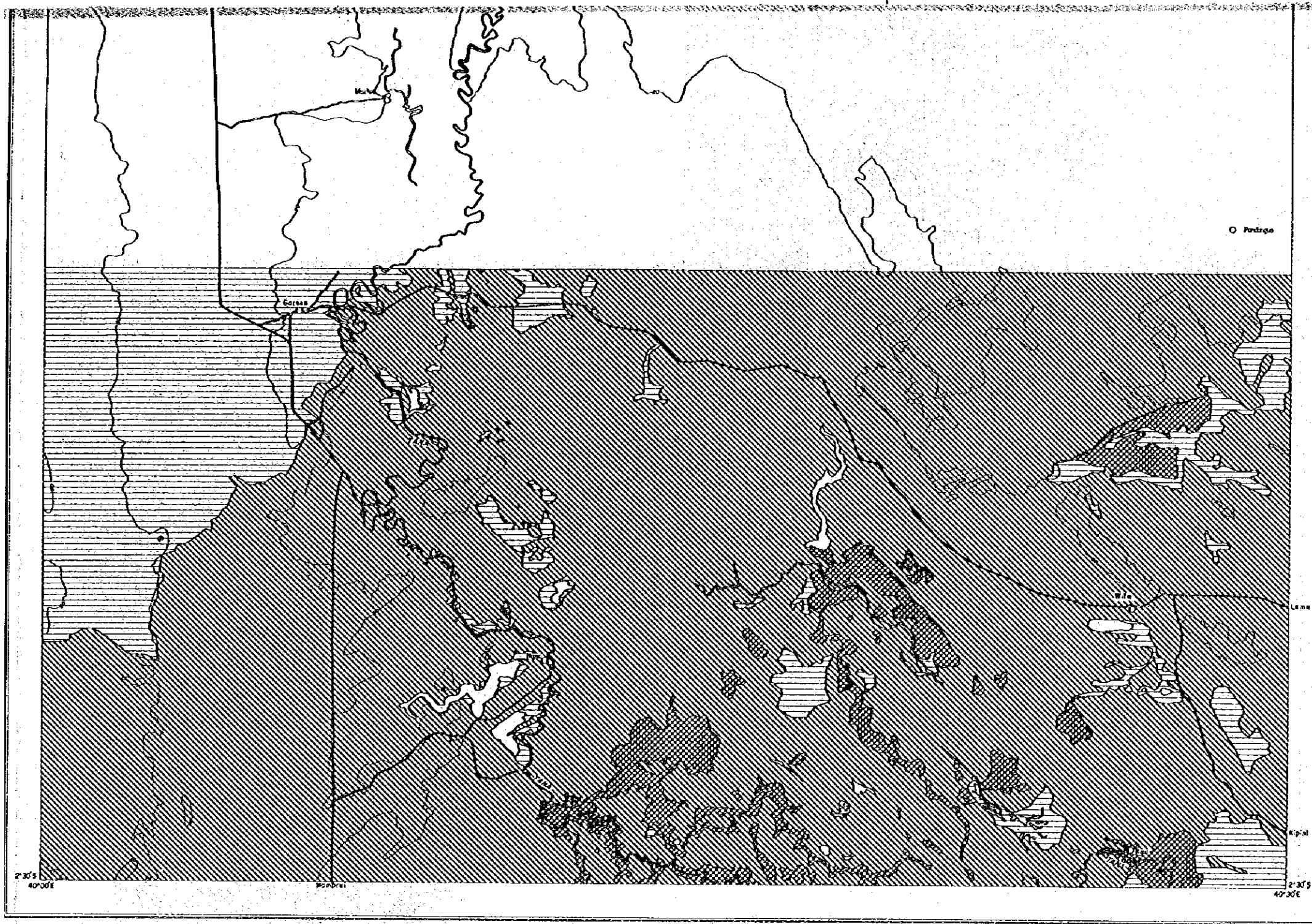
SUITABILITY CLASS

- S1 HIGHLY SUITABLE
- S2 MODERATELY SUITABLE
- S3 MARGINALLY SUITABLE
- NS UNSUITABLE
- WATER

Land classification criteria

Land utilisation type: Small holder rainfed, mixed farming
(cashew, maize, etc.)

suitability class	S 1	S 2	S 3	NS
land qualities	Highly suitable	Mod. suitable	Marg. suitable	Unsuitable
agro-climatic zone	I, II, III	IV	V	VI, VII
soil moisture	very high	moderate	low	very low



LEGEND

SUITABILITY CLASS

- S1 HIGHLY SUITABLE
- S2 MODERATELY SUITABLE
- S3 MARGINALLY SUITABLE
- NS UNSUITABLE
- WATER

Land classification criteria

Land utilisation type: Small holder rainfed, mixed farming
(cashew, maize, etc.)

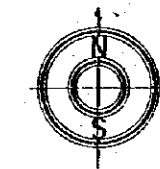
suitability class	S 1	S 2	S 3	NS
land qualities	Highly suitable	Mod. suitable	Marg. suitable	Unsuitable
agro-climatic zone	I, II, III	IV	V	VI, VII
soil moisture storage capacity	very high, high	moderate	low, very low	
chemical soil fertility	very high to moderate	low	very low	
resistance to erosion	very high, high	moderate	slight	very slight
possibilities of mechanisation	very good, good	very good, good	moderate	poor, very poor
drainage class	excessively to well	moderately well	imperfectly	poorly, very poorly

SHEET HISTORY

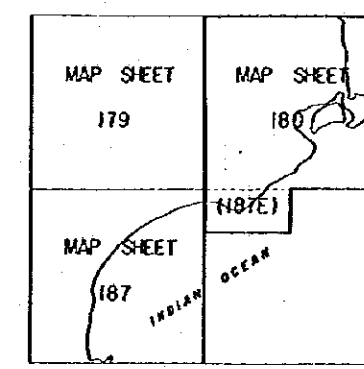
Prepared from thematic maps by Japan International Cooperation Agency (JICA), under the Japanese Government's Technical Aid Programme.

Field survey 1981-1982
Evaluation 1983
Printed in 1984





INDEX



LEGEND

- SUITABILITY CLASS**
- S1 HIGHLY SUITABLE
 - S2 MODERATELY SUITABLE
 - S3 MARGINALLY SUITABLE
 - NS UNSUITABLE
 - WATER

Land classification criteria
 Land utilisation type: Small holder rainfed, mixed farming
 (coshew, maize etc)

suitability class	S 1	S 2	S 3	NS
land qualities	Highly suitable	Mod. suitable	Marg. suitable	Unsuitable
agro-climatic	I, II, III	IV	V	VI, VII



LEGEND

SUITABILITY CLASS

- S1 HIGHLY SUITABLE
- S2 MODERATELY SUITABLE
- S3 MARGINALLY SUITABLE
- NS UNSUITABLE
- WATER

Land classification criteria

Land utilisation type: Small holder rainfed, mixed farming
(coshew, maize etc)

suitability class	S 1	S 2	S 3	NS
land qualities	Highly suitable	Mod. suitable	Marg. suitable	Unsuitable
agro-climatic zone	I, II, III	IV	V	VI, VII
soil moisture storage capacity	very high, high	moderate	low, very low	
chemical soil fertility	very high to moderate	low	very low	
resistance to erosion	very high, high	moderate	slight	very slight
possibilities of mechanisation	very good, good	very good, good	moderate	poor, very poor
drainage class	excessively to well	moderately well	imperfectly	poorly, very poorly

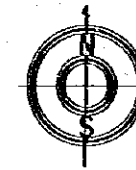
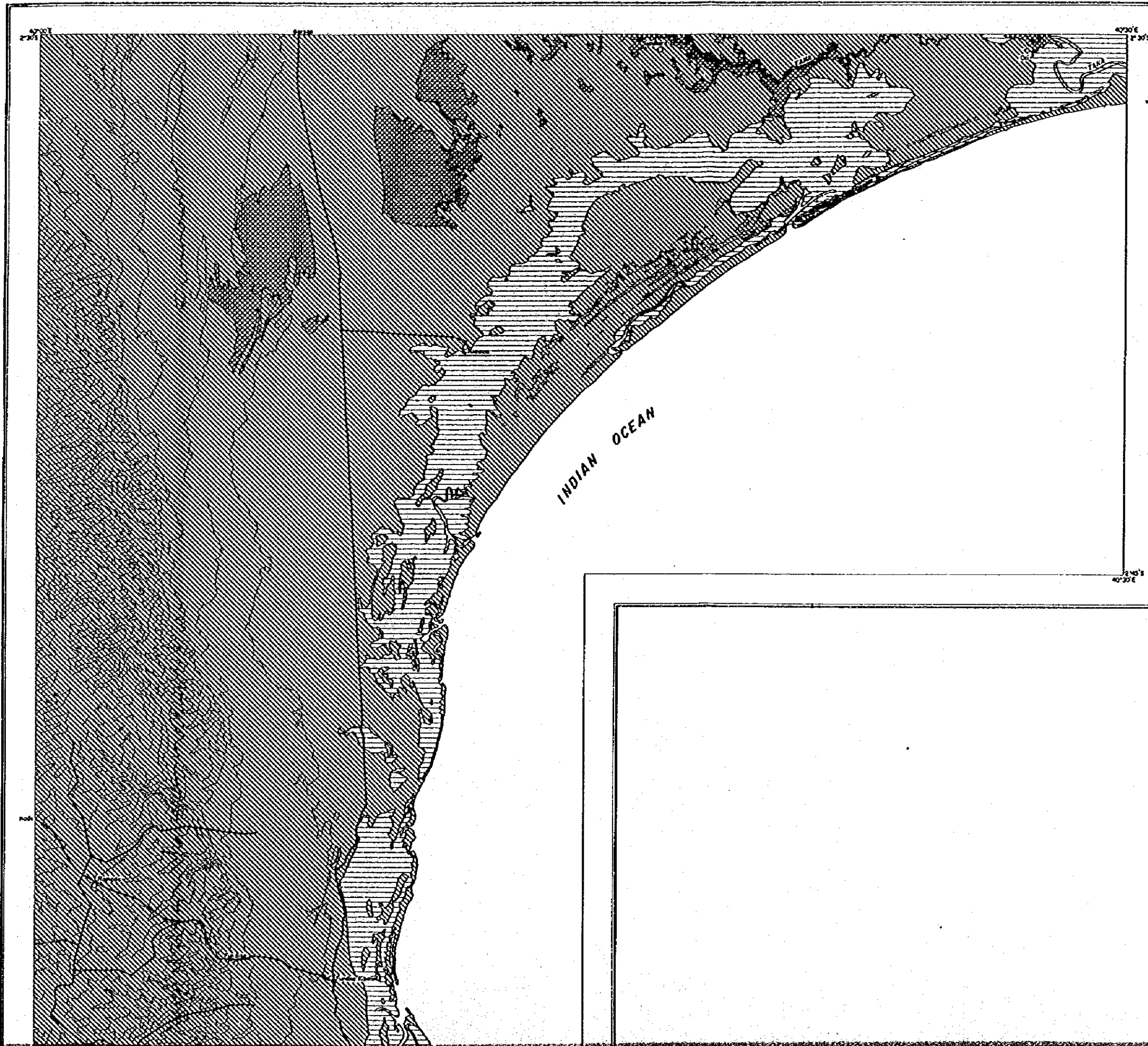
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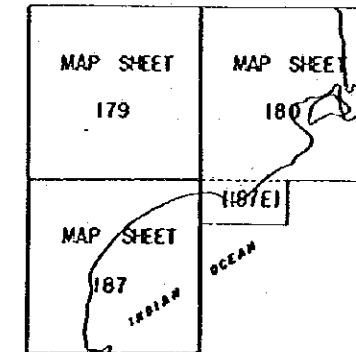
Field survey 1981-1982
Evaluation 1983
Printed in 1984

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INDEX



LEGEND

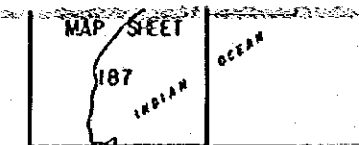
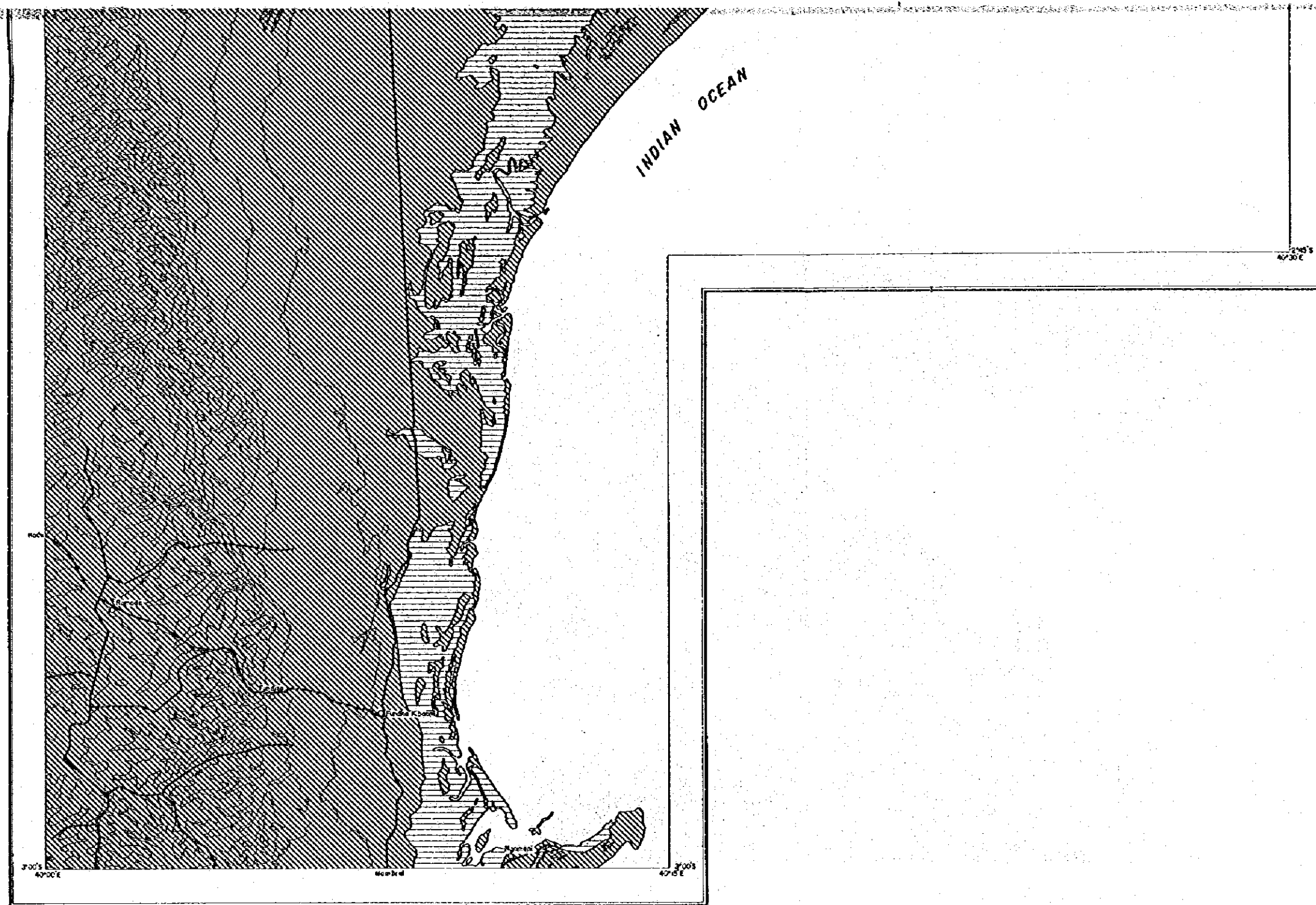
SUITABILITY CLASS

- S1 HIGHLY SUITABLE
- S2 MODERATELY SUITABLE
- S3 MARGINALLY SUITABLE
- NS UNSUITABLE
- WATER

Land classification criteria

Land utilisation type: Small holder rainfed, mixed farming
(cashew, maize, etc.)

suitability class	S 1	S 2	S 3	NS
land qualities	Highly suitable	Mod. suitable	Marg. suitable	Unsuitable
agro-climatic zone	I, II, III	IV	V	VI, VII
soil moisture	very high	moderate	low	very low



LEGEND

SUITABILITY CLASS

- S1 HIGHLY SUITABLE
- S2 MODERATELY SUITABLE
- S3 MARGINALLY SUITABLE
- NS UNSUITABLE
- WATER

Land classification criteria

Land utilisation type: Small holder rainfed, mixed farming
(cashew, maize, etc.)

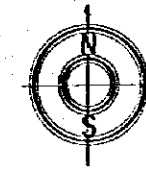
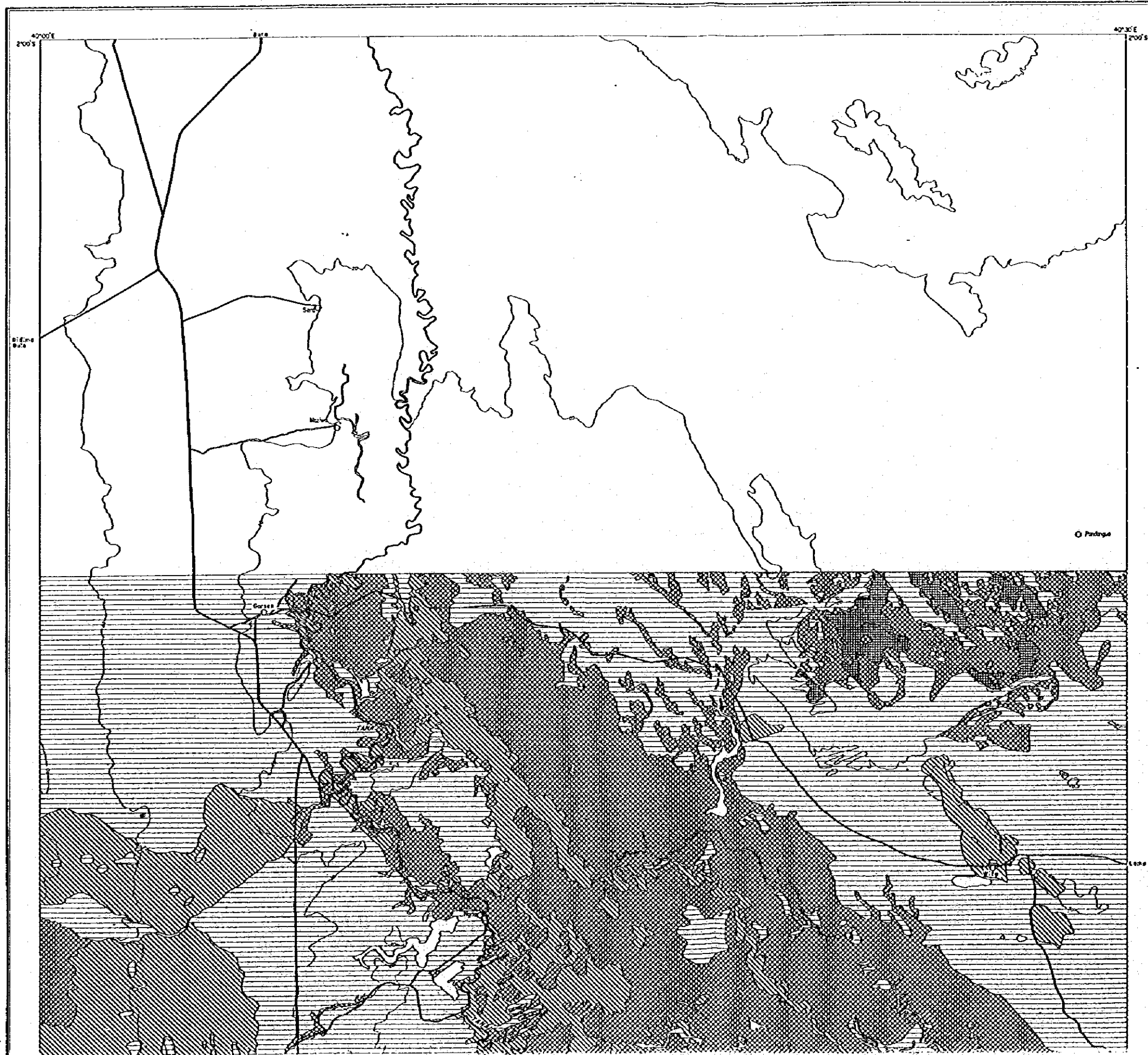
suitability class	S 1	S 2	S 3	NS
land qualities	Highly suitable	Mod. suitable	Marg. suitable	Unsuitable
agro-climatic zone	I, II, III	IV	V	VI, VII
soil moisture storage capacity	very high, high	moderate	low, very low	
chemical soil fertility	very high to moderate	low	very low	
resistance to erosion	very high, high	moderate	slight	very slight
possibilities of mechanisation	very good, good	very good, good	moderate	poor, very poor
drainage class	excessively to well	moderately well	imperfectly	poorly, very poorly

SHEET HISTORY

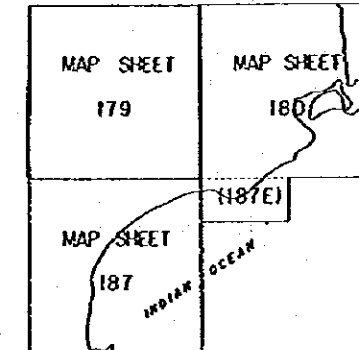
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Field survey 1981-1982
Evaluation 1983
Printed in 1984





INDEX



LEGEND

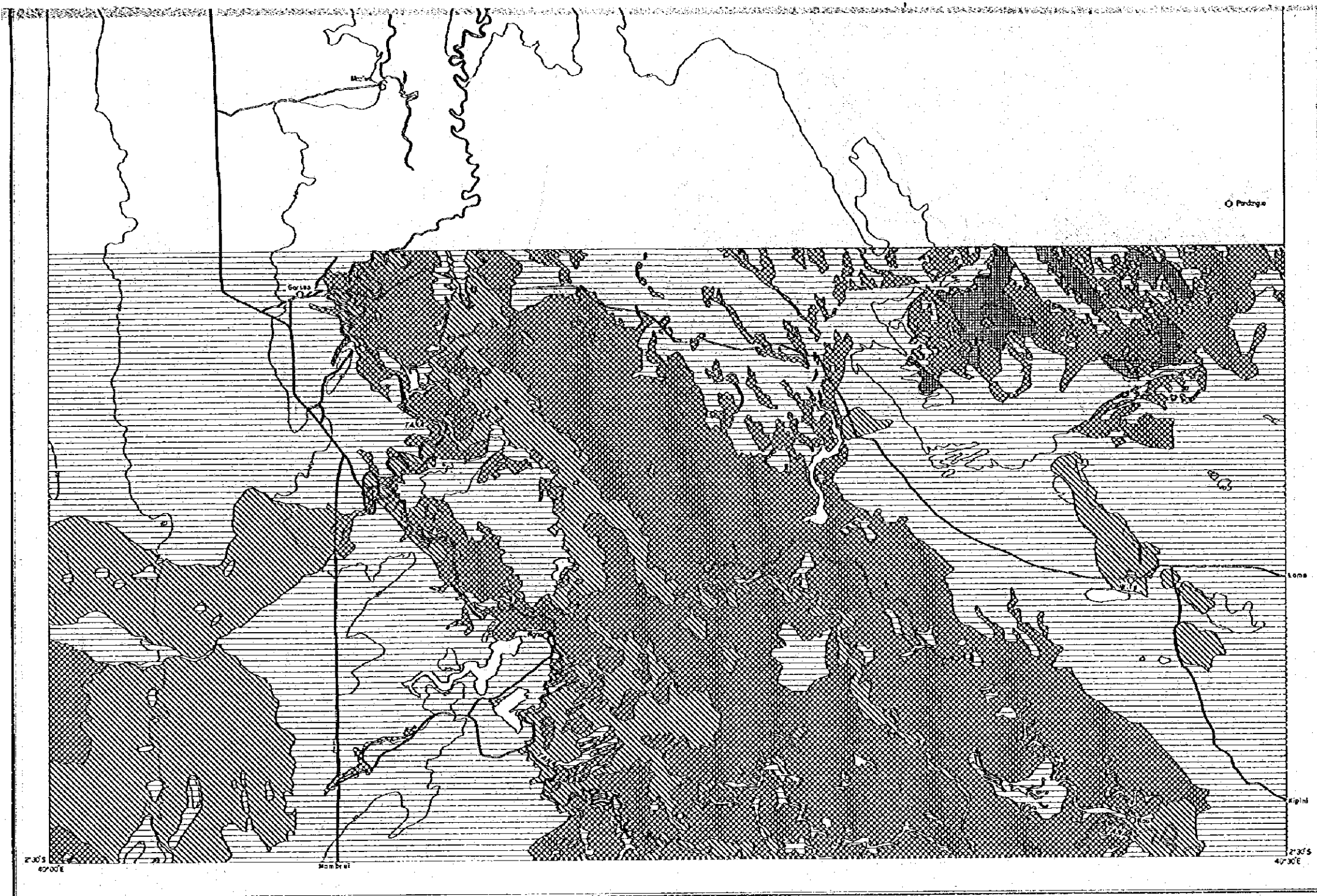
SUITABILITY CLASS

- S1 HIGHLY SUITABLE
- S2 MODERATELY SUITABLE
- S3 MARGINALLY SUITABLE
- NS UNSUITABLE
- WATER

Land classification criteria

Land utilisation type: Irrigated agriculture (Mainly rice)

Suitability class	S 1	S 2	S 3	NS
Land qualities	Highly suitable	Mod. suitable	Marg. suitable	Unsuitable
texture top	loam to clay	loam to clay	sand to sandy loam	
texture sub	silty clay to clay	loam to clay loam	sandy loam	sand to loamy sand
alkalinity: ESP (%)	< 15	15 - 30	15 - 30	> 30
salinity: ECe (mmho)	< 4	4 - 8	4 - 8	> 8
soil depth (cm)	> 80	50 - 80	25 - 50	



LEGEND

SUITABILITY CLASS

- S1 HIGHLY SUITABLE
- S2 MODERATELY SUITABLE
- S3 MARGINALLY SUITABLE
- NS UNSUITABLE
- WATER

Land classification criteria

Land utilisation type: Irrigated agriculture (Mainly rice)

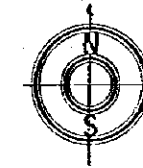
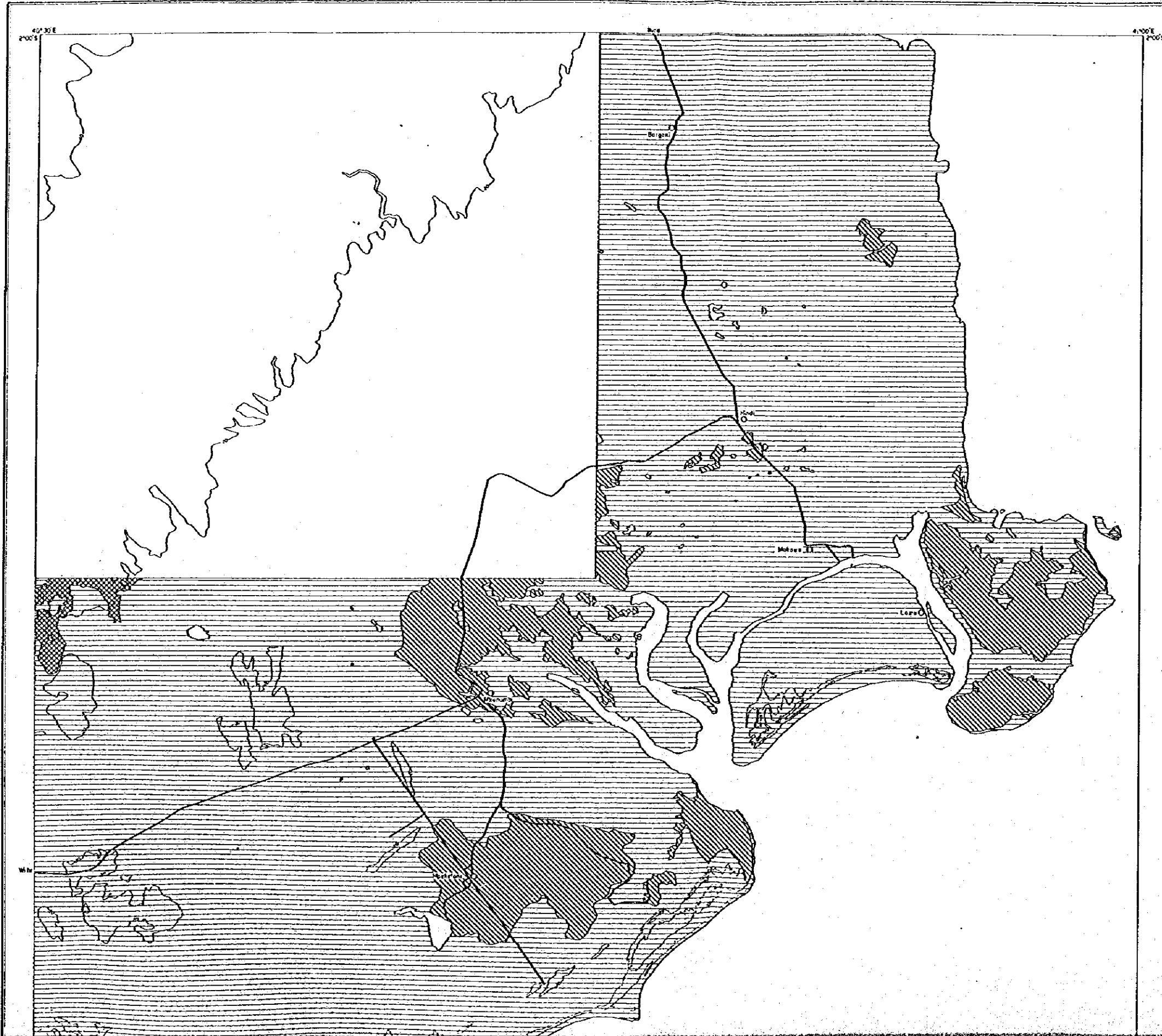
suitability class	S 1	S 2	S 3	NS
land qualities	Highly suitable	Mod. suitable	Marg. suitable	Unsuitable
texture top	loam to clay	loam to clay	sand to sandy loam	
texture sub	silty clay to clay	loam to clay loam	sandy loam	sand to loamy sand
alkalinity: ESP (%)	< 15	15 - 30	15 - 30	> 30
salinity: ECe (mmho)	< 4	4 - 8	4 - 8	> 8
soil depth (cm)	> 80	50 - 80	25 - 50	
drainage class	well to imperfectly	poorly	poorly	excessively, somewhat excessively, very poorly
vegetation coverage (%)	0 ~ 20	20 ~ 40	40 ~ 80	> 80
slope length (m)	> 200	50 - 200	50 - 200	< 50
slope (%)	< 1	< 1	1 - 2	> 2

SHEET HISTORY

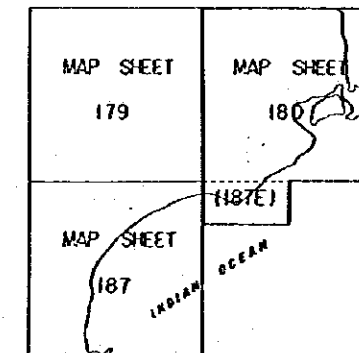
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Field survey 1981-1982
Evaluation 1983
Printed in 1984





INDEX



LEGEND

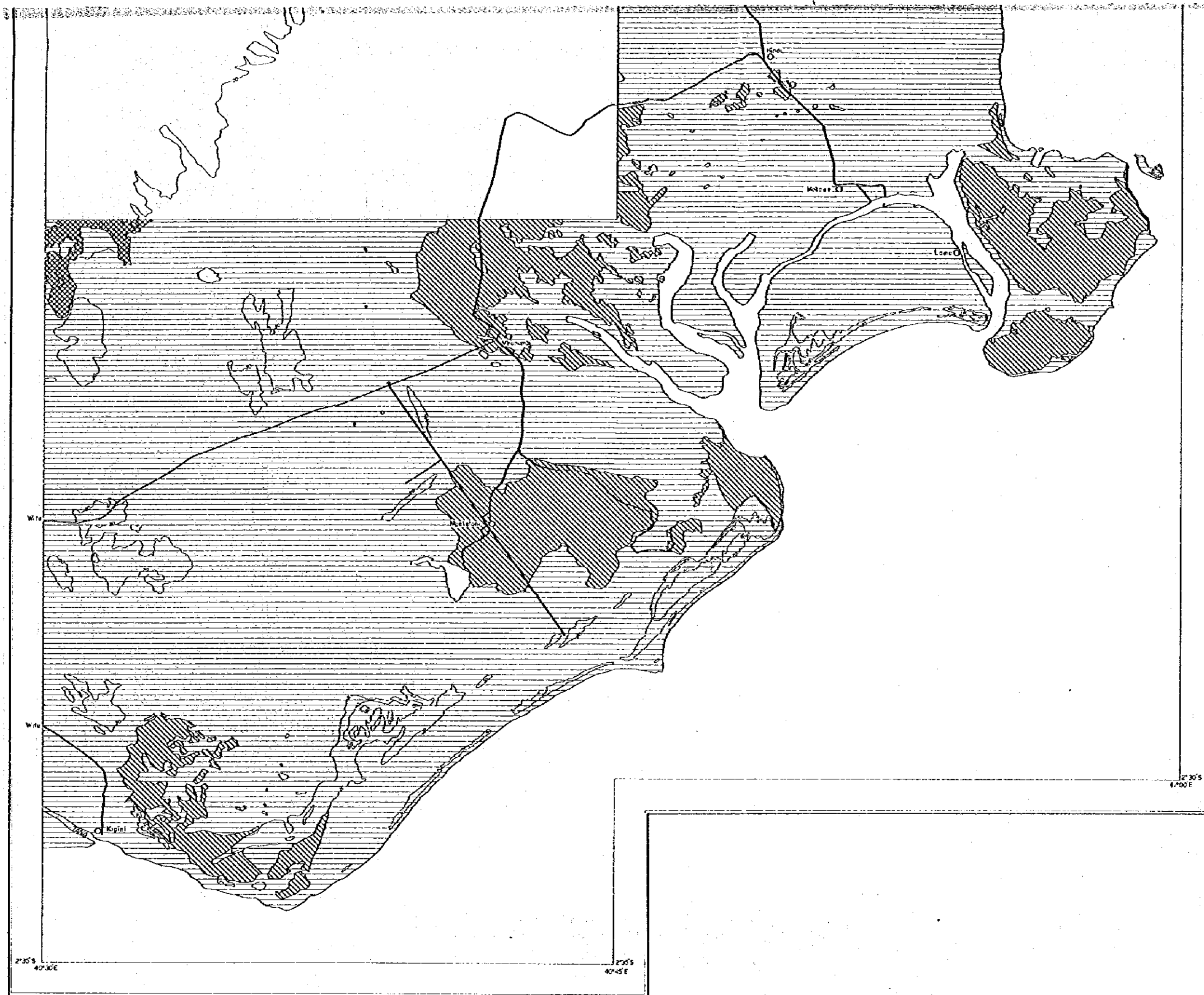
SUITABILITY CLASS

- S1 HIGHLY SUITABLE
- S2 MODERATELY SUITABLE
- S3 MARGINALLY SUITABLE
- NS UNSUITABLE
- WATER

Land classification criteria

Land utilisation type: irrigated agriculture (Mainly rice)

suitability class	S 1	S 2	S 3	NS
land qualities	Highly suitable	Mod suitable	Marg. suitable	Unsuitable
texture top	loam to clay	loam to clay	sand to sandy loam	
texture sub	silty clay to clay	loam to clay loam	sandy loam	sand to loamy sand
alkalinity: ESP (%)	< 15	15 - 30	15 - 30	> 30
salinity: ESP (%)	< 4	4 - 8	4 - 8	> 8



LEGEND

SUITABILITY CLASS

- S1 HIGHLY SUITABLE
- S2 MODERATELY SUITABLE
- S3 MARGINALLY SUITABLE
- NS UNSUITABLE
- WATER

Land classification criteria

Land utilisation type: Irrigated agriculture (Mainly rice)

suitability class	S 1	S 2	S 3	NS
land qualities	Highly suitable	Mod. suitable	Marg. suitable	Unsuitable
texture top	loam to clay	loam to clay	sand to sandy loam	
texture sub	silty clay to clay	loam to clay loam	sandy loam	sand to loamy sand
alkalinity: ESP (%)	< 15	15 - 30	15 - 30	> 30
salinity: ECe (mmho)	< 4	4 - 8	4 - 8	> 8
soil depth (cm)	> 80	50 - 80	25 - 50	
drainage class	well to imperfectly	poorly	poorly	excessively, somewhat excessively, very poorly
vegetation coverage (%)	0 ~ 20	20 ~ 40	40 ~ 80	> 80
slope length (m)	> 200	50 - 200	50 - 200	< 50
slope (%)	< 1	< 1	1 - 2	> 2

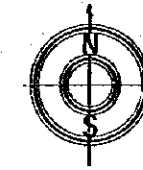
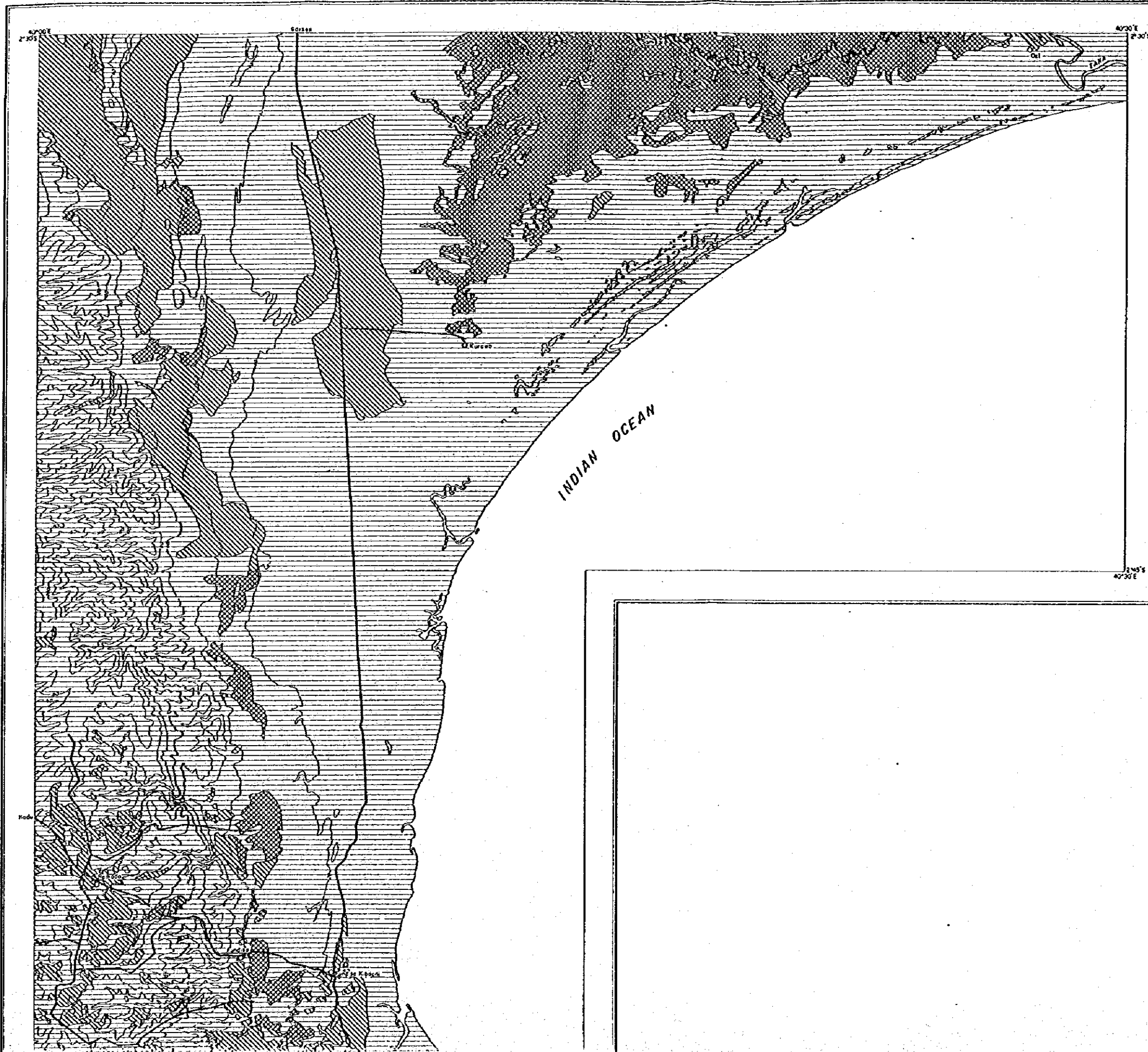
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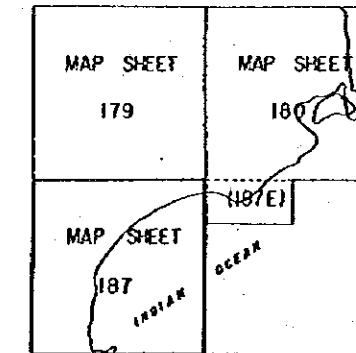
Field survey 1981-1982
Evaluation 1983

Printed in 1984





INDEX



LEGEND

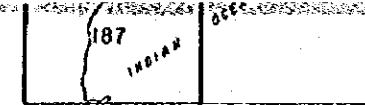
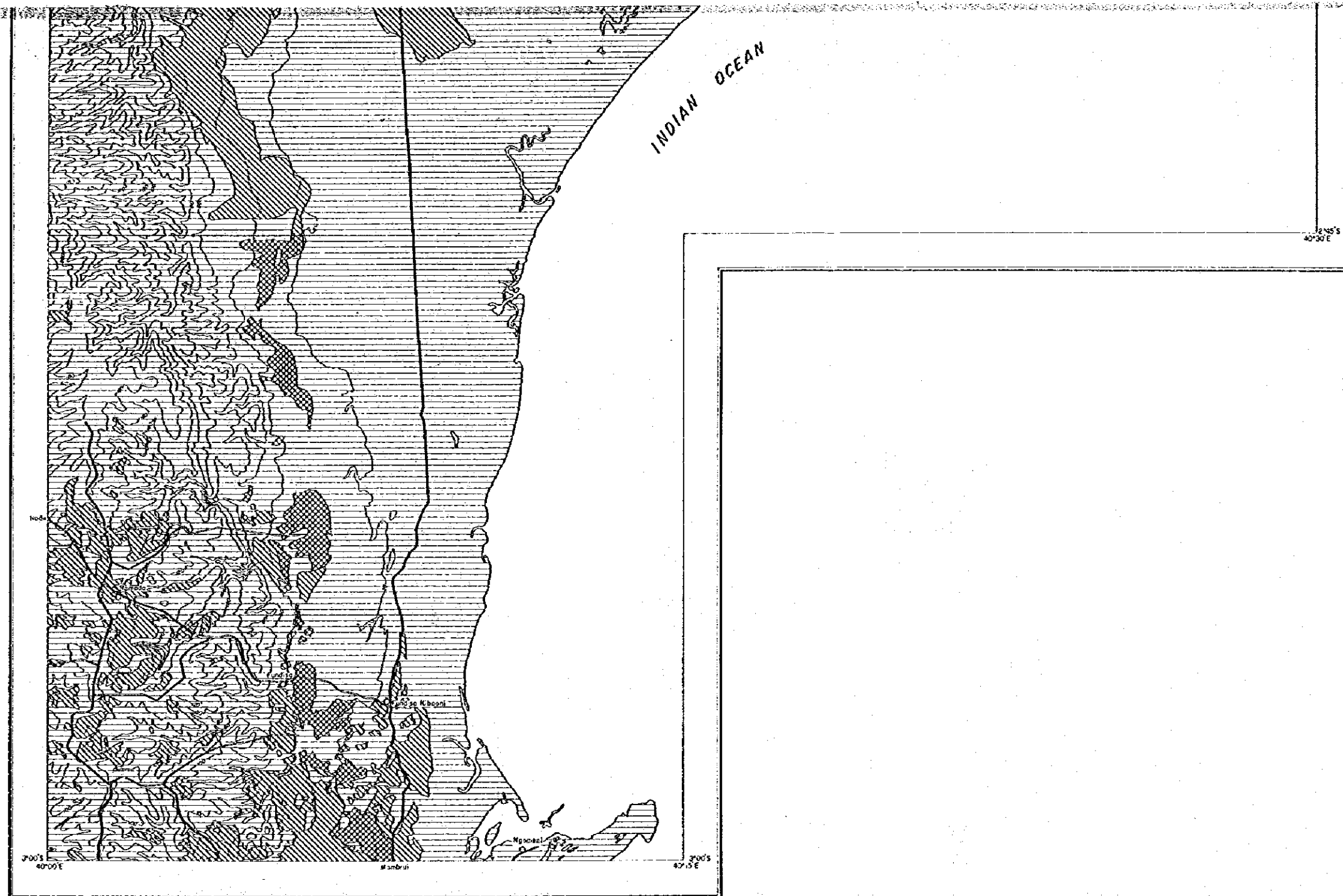
SUITABILITY CLASS

- S1 HIGHLY SUITABLE
- S2 MODERATELY SUITABLE
- S3 MARGINALLY SUITABLE
- NS UNSUITABLE
- WATER

Land classification criteria

Land utilisation type: Irrigated agriculture (Mainly rice)

Land class	S 1	S 2	S 3	NS
Land qualities	Highly suitable	Mod suitable	Marg. suitable	Unsuitable
texture top	loam to clay	loam to clay	sand to sandy loam	
texture sub	silty clay to clay	loam to clay loam	sandy loam	sand to loamy sand
alkalinity: ESP (%)	< 15	15 - 30	15 - 30	> 30
salinity: ECe (mmho)	< 4	4 - 8	4 - 8	> 8
soil depth (cm)	> 80	50 - 80	25 - 60	



LEGEND

SUITABILITY CLASS

- S1 HIGHLY SUITABLE
- S2 MODERATELY SUITABLE
- S3 MARGINALLY SUITABLE
- NS UNSUITABLE
- WATER

Land classification criteria

Land utilisation type: Irrigated agriculture (Mainly rice)

suitability class	S 1	S 2	S 3	NS
land qualities	Highly suitable	Mod. suitable	Marg. suitable	Unsuitable
texture top	loam to clay	loam to clay	sand to sandy loam	
texture sub	silty clay to clay	loam to clay loam	sandy loam	sand to loamy sand
alkalinity: ESP (%)	< 15	15 - 30	15 - 30	> 30
salinity: ECe (mmho)	< 4	4 - 8	4 - 8	> 8
soil depth (cm)	> 80	50 - 80	25 - 50	
drainage class	well to imperfectly	poorly	poorly	excessively, somewhat excessively, very poorly
vegetation coverage (%)	0 ~ 20	20 ~ 40	40 ~ 80	> 80
slope length (m)	> 200	50 - 200	50 - 200	< 50
slope (%)	< 1	< 1	1 - 2	> 2

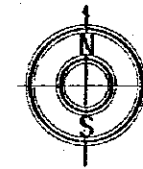
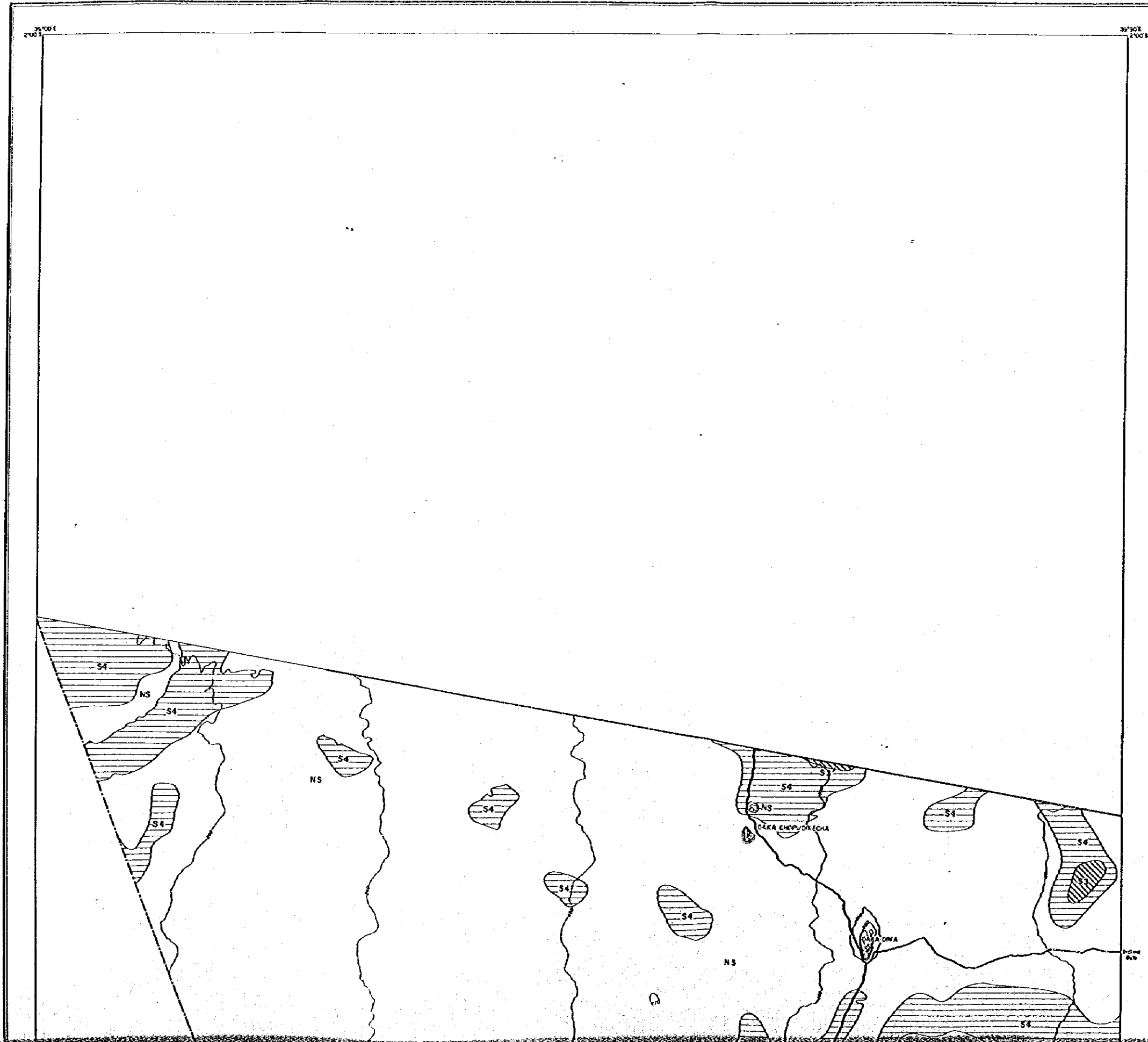
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Field survey 1981-1982
 Evaluation 1983
 Printed in 1984

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MAP SHEET 177	MAP SHEET 178
MAP SHEET 185	MAP SHEET 186

LEGEND

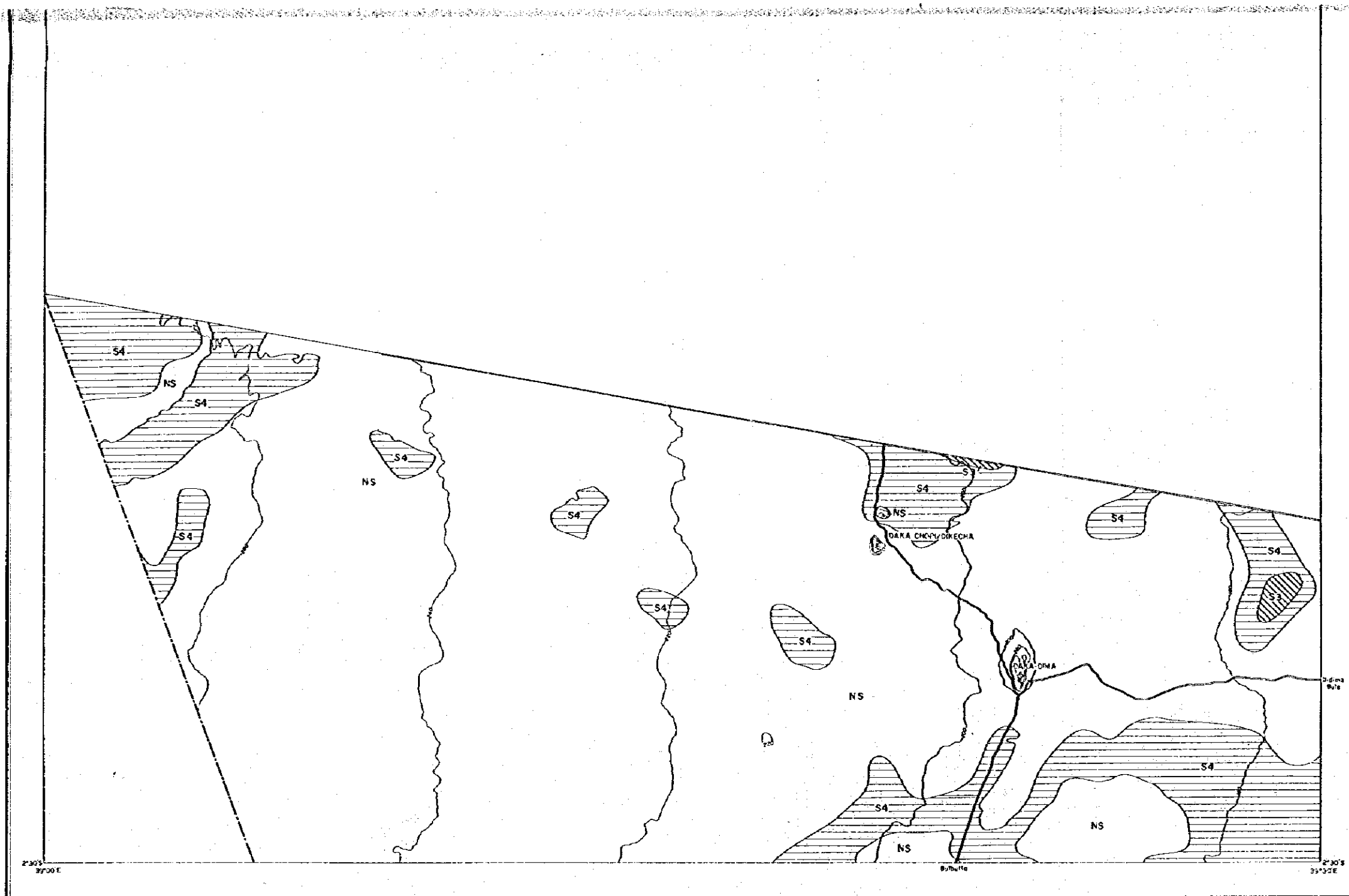
SUITABILITY CLASS

- S1 HIGHLY SUITABLE
- S2 MODERATELY SUITABLE
- S3 MARGINALLY SUITABLE
- S4 SUBMARGINALLY SUITABLE
- NS UNSUITABLE

Land classification criteria

Land utilisation type : Ranching (current suitability)

suitability class	S1 Highly suitable	S2 Moderately suitable	S3 Marginally suitable	S4 Submarginally suitable	NS Unsuitable
land qualities					
agro-climatic zone	I, II, III	IV, V	VI	VII	
vegetation	G-1-2, Fa	BG-1-2-3	B-1-2 WB-1, 2		F-2,3, WB1-1, Cr, Co, Cz, Pm



LEGEND

SUITABILITY CLASS

- S1 HIGHLY SUITABLE
- S2 MODERATELY SUITABLE
- S3 MARGINALLY SUITABLE
- S4 SUBMARGINALLY SUITABLE
- NS UNSUITABLE

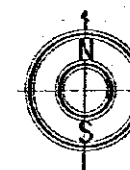
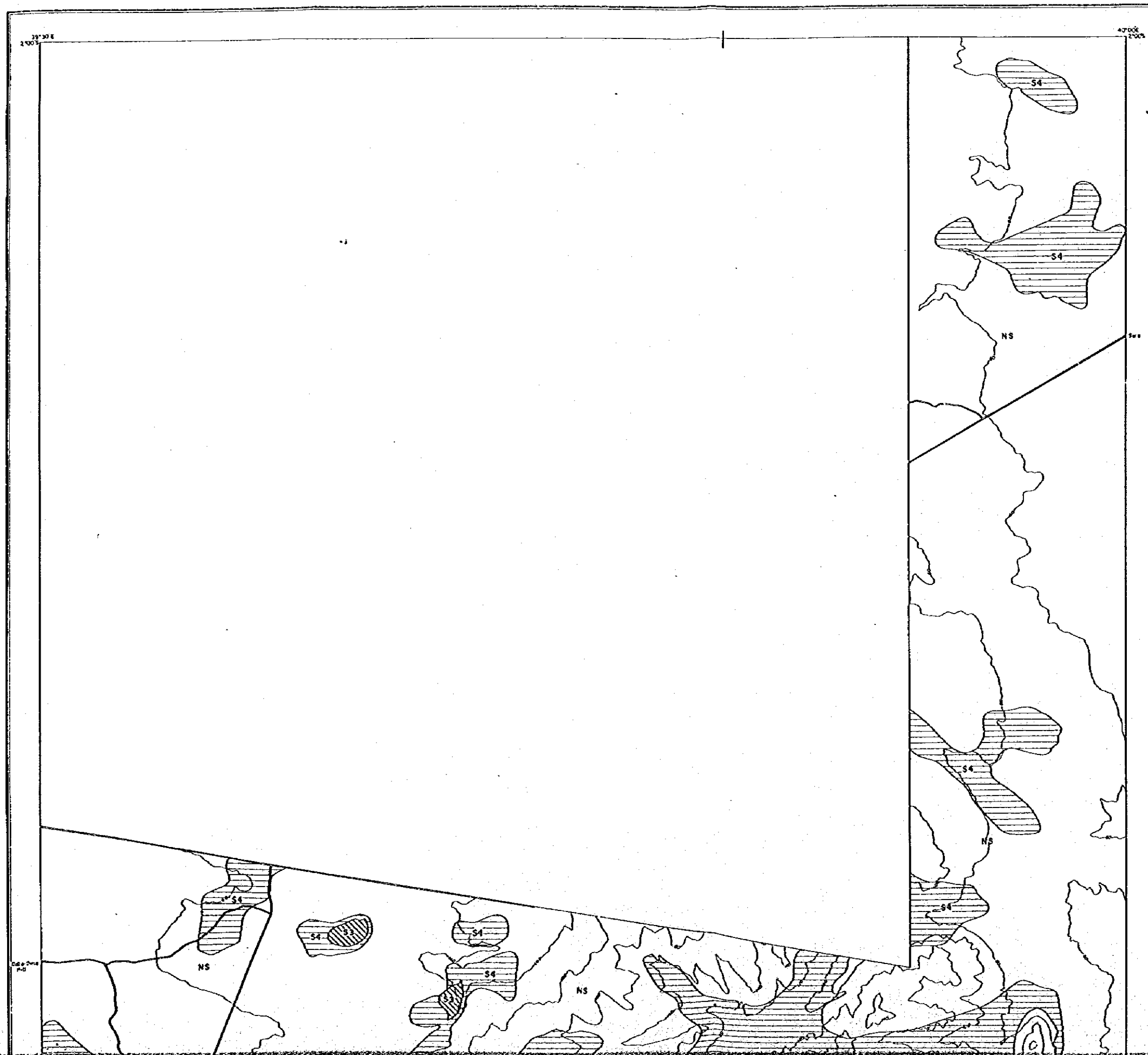
Land classification criteria

Land utilisation type : Ranching (current suitability)

land class	S1 Highly suitable	S2 Moderately suitable	S3 Marginally suitable	S4 Submarginally suitable	NS Unsuitable
agro-climatic zone	I, II, III	IV, V	VI	VII	
vegetation	G-1-2, Fo	BG-1-2-3	B-1-2 WB-1-2		F-2,3, WB1-1, Cr, Co, Ca, Pm, Pa, V, Ag, Bl
landform	Pa, U, Ud, L, Y, A, PI 1-2	B, V, Pl	D, H, F	C	O, Hr, Hs, W, S
soil	vp, lc, bh	zk	qf, so		i
availability of water	5	4	3	2	1

SHEET HISTORY






Prepared from thematic maps by Japan International Cooperation Agency (JICA), under the Japanese Government's Technical Aid Programme.
 Field survey 1981-1982
 Evaluation 1983
 Printed in 1984



MAP SHEET 177	MAP SHEET 178
MAP SHEET 185	MAP SHEET 186

LEGEND

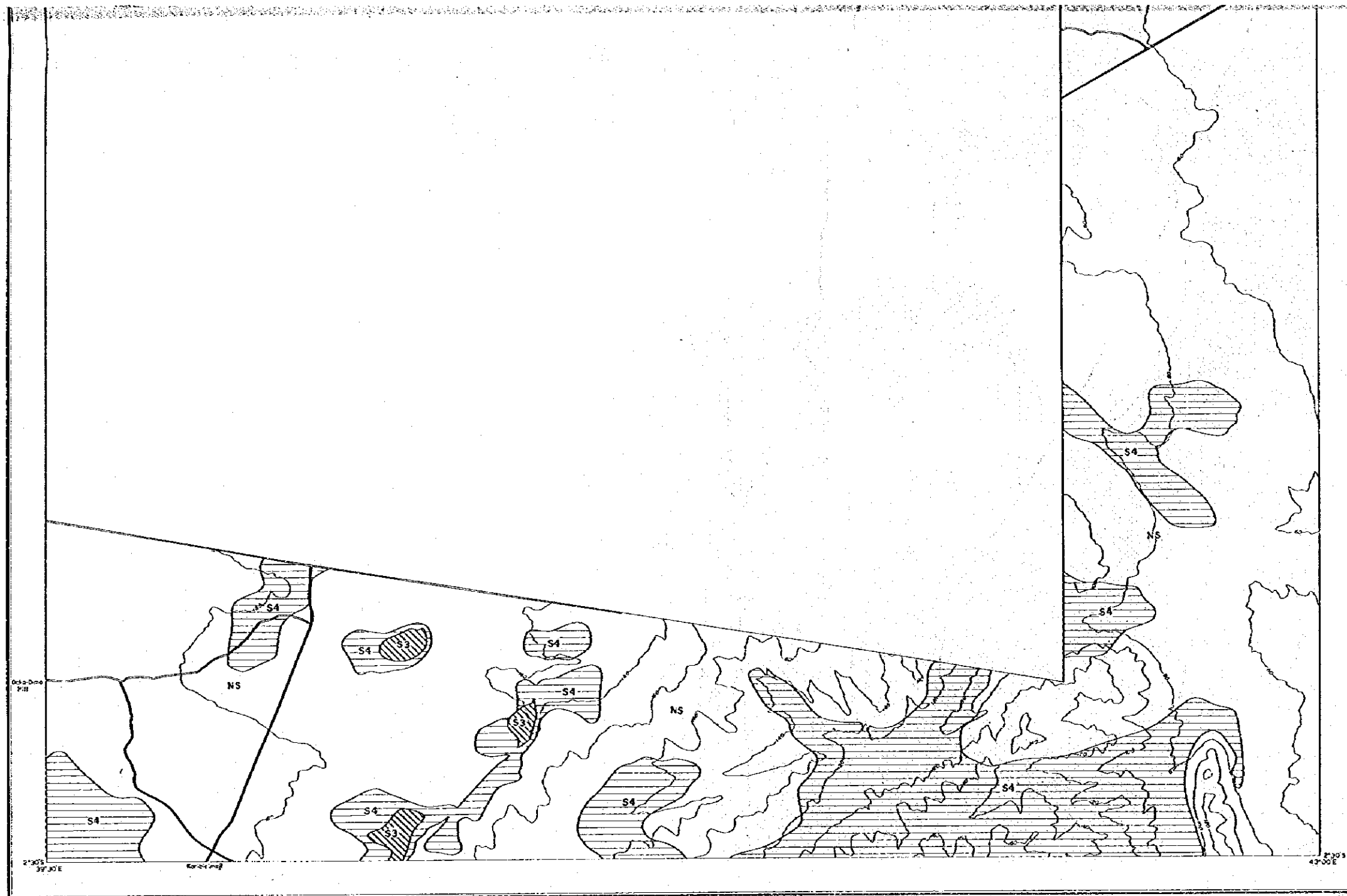
SUITABILITY CLASS

- S1  HIGHLY SUITABLE
- S2  MODERATELY SUITABLE
- S3  MARGINALLY SUITABLE
- S4  SUBMARGINALLY SUITABLE
- NS  UNSUITABLE

Land classification criteria

Land utilisation type : Ranching (current suitability)

suitability class	S1 Highly suitable	S2 Moderately suitable	S3 Marginally suitable	S4 Submarginally suitable	NS Unsuitable
land qualities	I, II, III	IV, V	VI	VII	
agro-climatic zone	I, II, III	IV, V	VI	VII	
vegetation	G-1-2, Fa	BG-1-2-3	B-1-2 WB-1-2		F-23, WB1-1, Cr, Co, Cz, Pm, Pa, V, Ag, B1



LEGEND

SUITABILITY CLASS

- S1 HIGHLY SUITABLE
- S2 MODERATELY SUITABLE
- S3 MARGINALLY SUITABLE
- S4 SUBMARGINALLY SUITABLE
- NS UNSUITABLE

Land classification criteria

Land utilisation type : Ranching (current suitability)

suitability class / land qualities	S1 Highly suitable	S2 Moderately suitable	S3 Marginally suitable	S4 Submarginally suitable	NS Unsuitable
agro-climatic zone	I, II, III	IV, V	VI	VII	
vegetation	G-1-2, Fa	BG-1-2-3	B-1-2 WB-1-2		F-23, WBI-1, Cr, Co, Ce, Fm, Pz, V, Ag, B1
landform	Pn, U, Ud, L, Y, A, PI 1-2	B, V, Pf	Dz, H, F	C	D, Hr, Hs, W, S
soil	vp, fc, bk	xk	qf, so		i
availability of water	5	4	3	2	1



SHEET HISTORY

Prepared from thematic maps by Japan International Cooperation Agency (JICA), under the Japanese Government's Technical Aid Programme.

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