

Status of Shoreline Change due to Erosion / Accretion Tiruvananthapuram District - Kerala coast

SHEET NO. 1

INDEX NO.2,3,4



Arabian Sea



Landsat TM, 2000

ACCRETION ZONES	Location
High Accretion	Stretch between SE of Karumankulam and SE of Pulinkudi
Medium Accretion	SE of Lurdpatram
Low Accretion	SW of Pumpukata, SW of Puvar
STABLE ZONES	
Stable Coast	Near Puvar
Artificial Coast (Eroding Coast)	SE of Neyyar River (Kollankad)
EROSION ZONES	
Low Erosion	Mouth of Neyyar River
Medium Erosion	Nil
High Erosion	Nil

High Accretion	Seawall	Port
Medium Accretion	Groynes	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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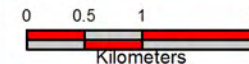
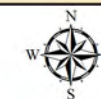


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जहाँ से हरियाली ।
वहाँ से खुशहाली ।

Creek
River
District Boundary
Settlement
Village/Town



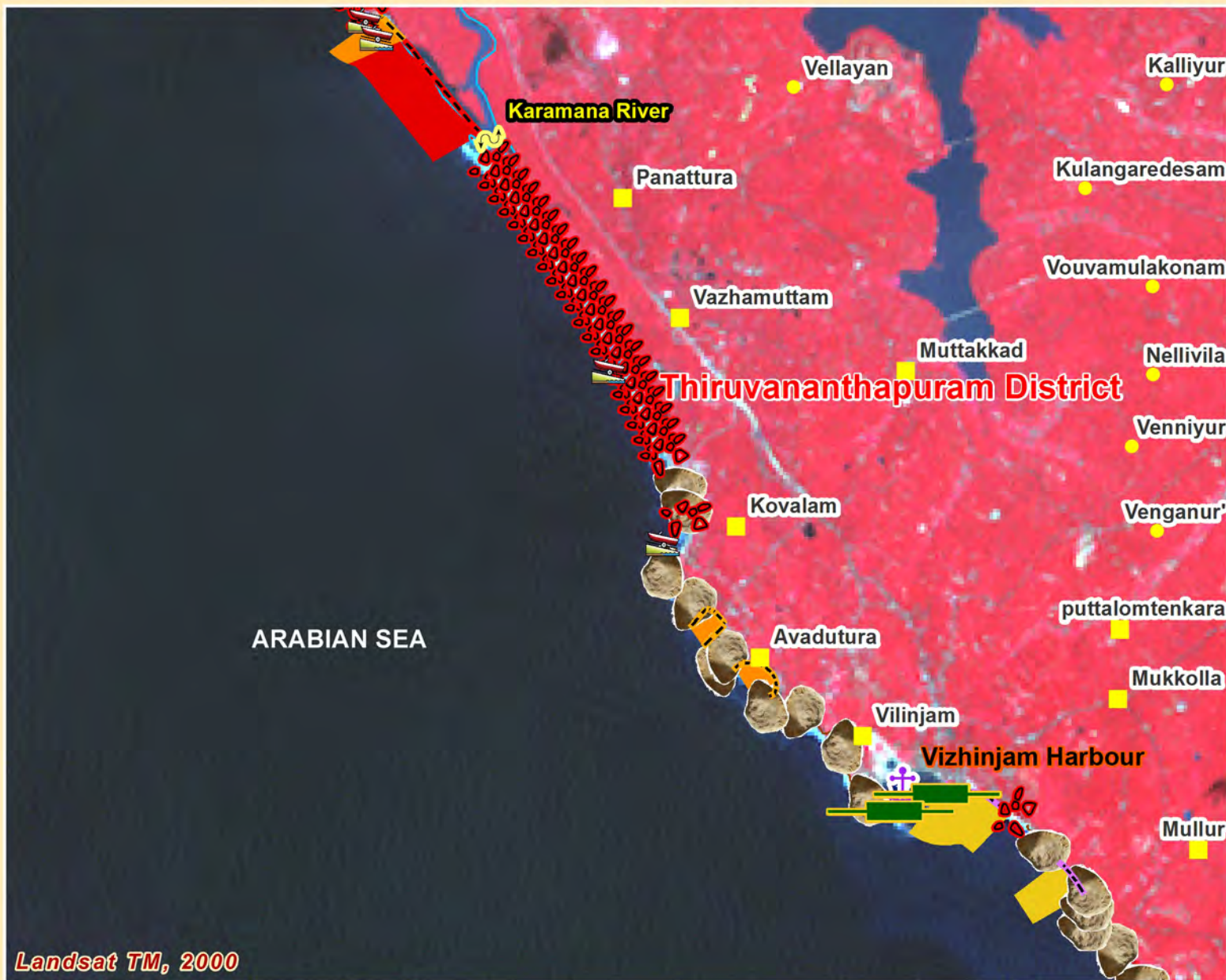
Status of Shoreline Change due to Erosion / Accretion Tiruvananthapuram District - Kerala coast

SHEET NO. 2

INDEX NO.2,3,4



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	Nil
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	Stretch between NW of Kovalam upto NW of Panattura
EROSION ZONES	
Low Erosion	Dominant around the Vizhinjam Harbour: i) NW of Mullur, ii) S and N of Vizhinjam Harbour, iii) S of Avadutura
Medium Erosion	Sandwiched between low erosion areas located E of Avadutura
High Erosion	NW of Karamana River mouth



	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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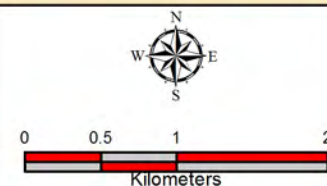


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ਅੱਗੇ ਹੋ ਫਰਿਅਲੀ ।
ਬਾਹੀ ਹੋ ਕੁਰਾਕਾਲੀ ।

	Creek
	River
	District Boundary
	Settlement
	Village/Town



Status of Shoreline Change due to Erosion / Accretion Tiruvananthapuram District - Kerala coast

SHEET NO. 3

INDEX NO. 4,5



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	Nil
STABLE ZONES	
Stable Coast	At Kadagampalli
Artificial Coast (Eroding Coast)	Stretch between S of Punture to Sankumukham
EROSION ZONES	
Low Erosion	stretch between S of Sankumukham and N of Kadagampalli, iii) from Vettukad to N of Karikkagam
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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	Creek
	River
	District Boundary
	Settlement
	Village/Town

0 0.5 1 2
Kilometers

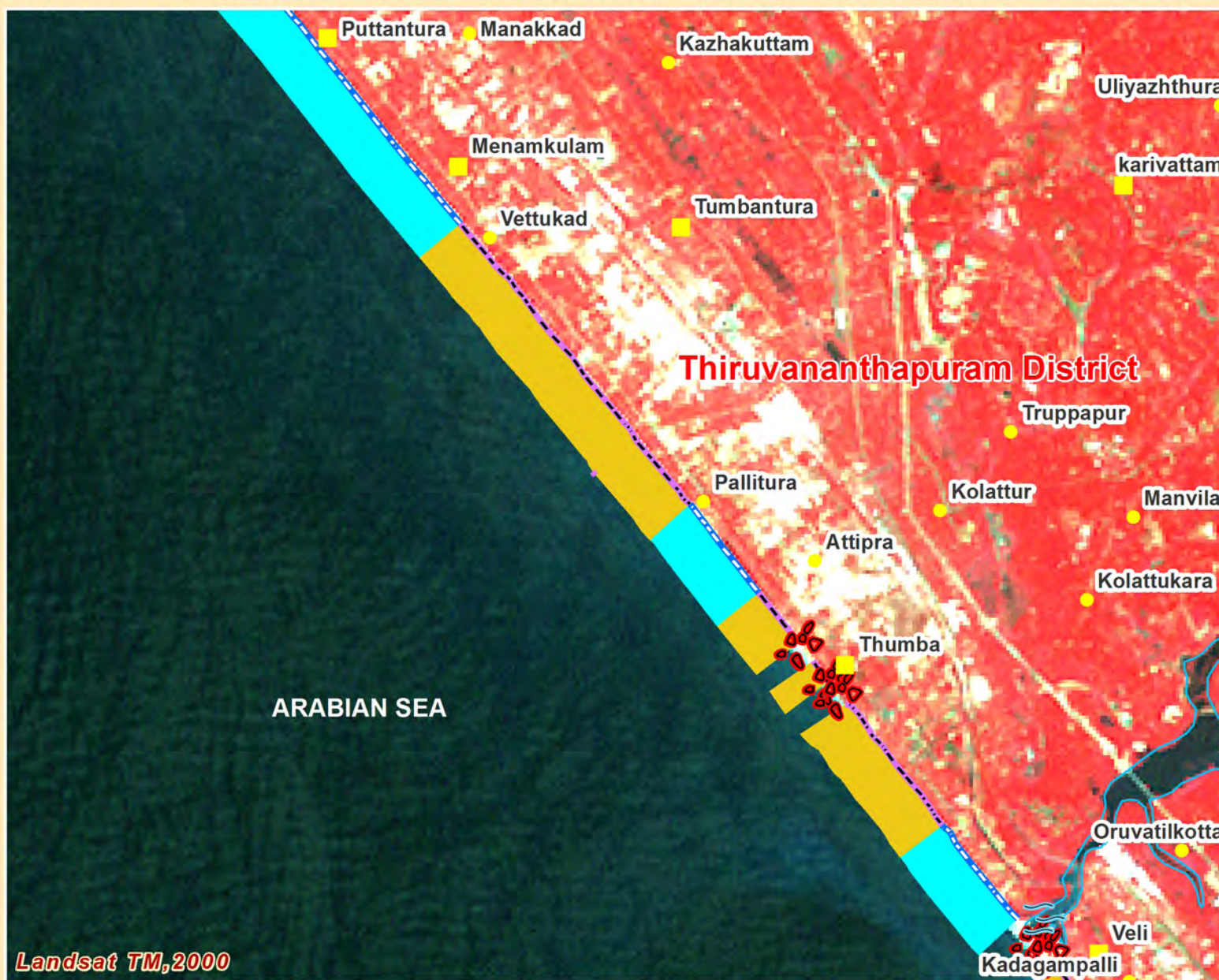
Status of Shoreline Change due to Erosion / Accretion Tiruvananthapuram District - Kerala coast

SHEET NO. 4

INDEX NO. 5,6



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	Nil
STABLE ZONES	
Stable Coast	i) N of Veli, ii) N of Akulam Lake, iii) NE of Attipara, iv) N of Vettukad upto N of Puttantura
Artificial Coast (Eroding Coast)	i) a small stretch S of Akkulam Lake, and ii) at Thumba and N of Thumba
EROSION ZONES	
Low Erosion	Five stretches along this coast: i) at Akkulam Lake, ii) At Thumba, iii) S and N of Thumba and v) stretch between Pallitura to Vettukad
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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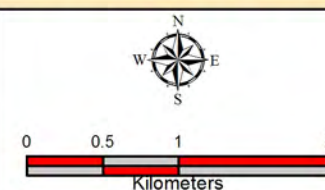


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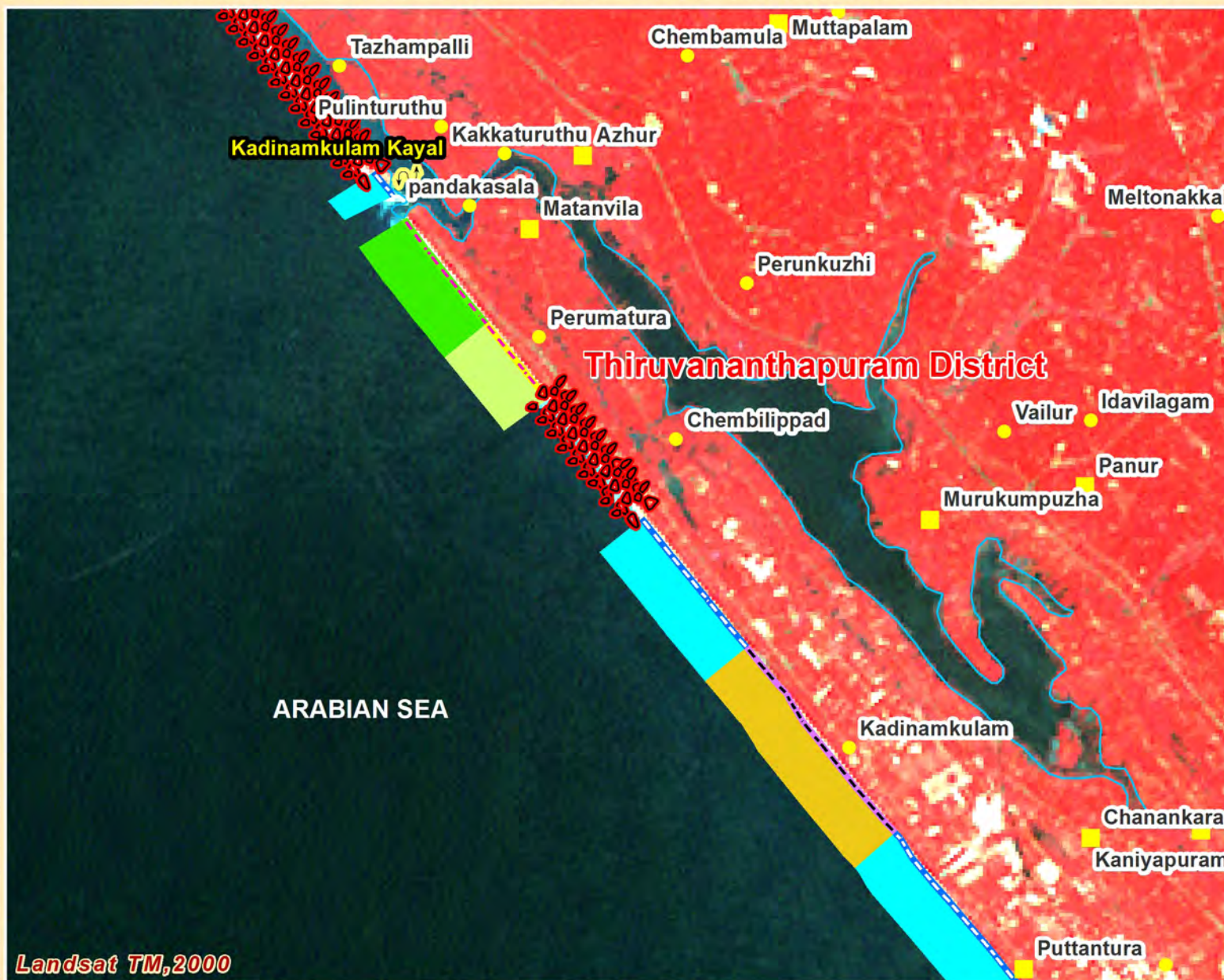
	Creek
	River
	District Boundary
	Settlement
	Village/Town



Status of Shoreline Change due to Erosion / Accretion Tiruvananthapuram District - Kerala coast

SHEET NO. 5

INDEX NO. 7,8



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	N of Perumatura to Pandakasala-South of Kadinamkulam Kayal mouth
Low Accretion	S and N of Perumatura
STABLE ZONES	
Stable Coast	At three stretches: i) N of Puttanthura, ii) NW of Kadimankulam and iii) N and S of Kadinamkulam
Artificial Coast (Eroding Coast)	N of kadinamkulam Kayal mouth upto N of Tazhampalli
EROSION ZONES	
Low Erosion	S and N of Kadinamkulam Village
Medium Erosion	Nil
High Erosion	Nil

	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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Creek



River



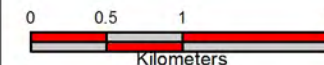
District Boundary



Settlement



Village/Town



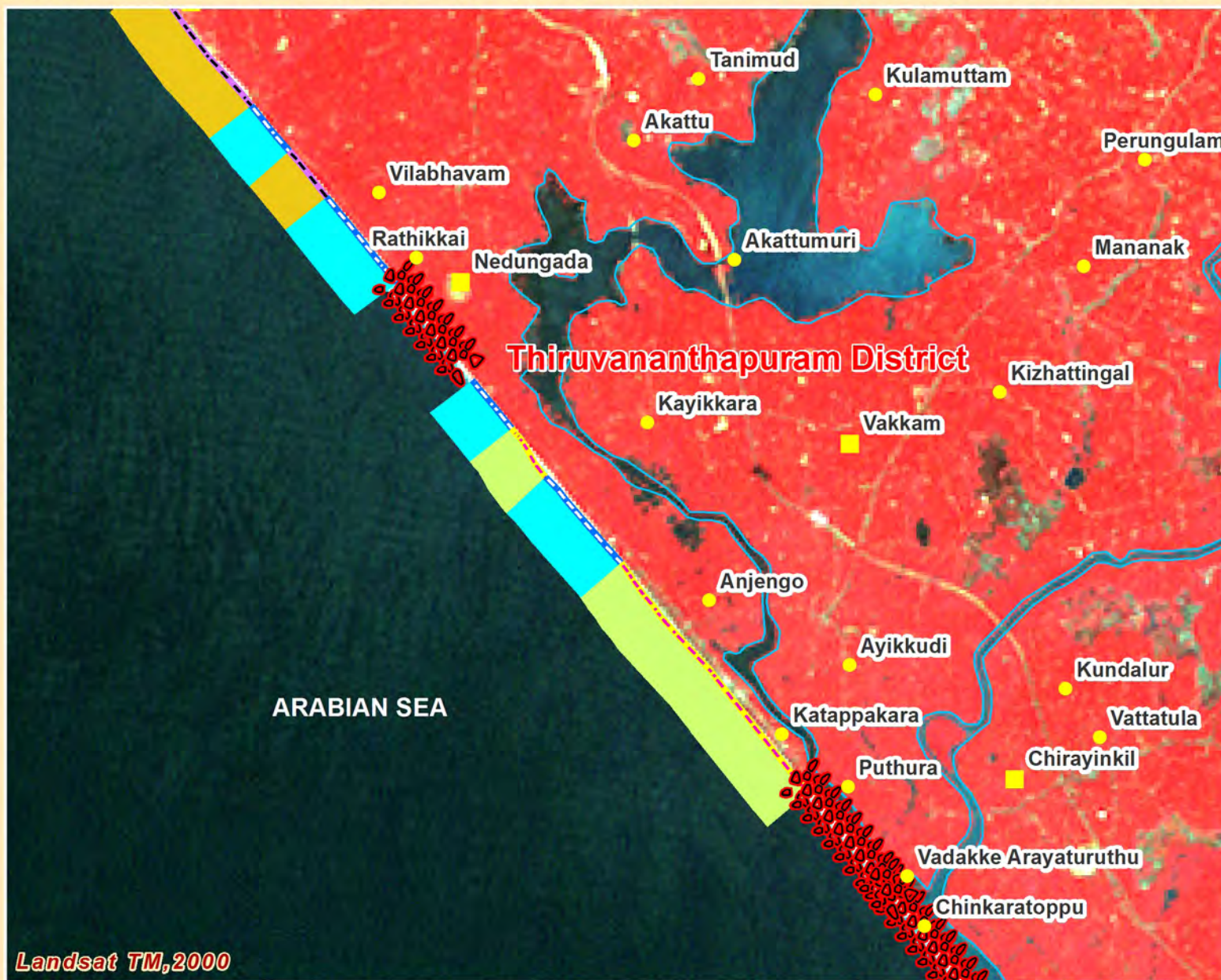
Status of Shoreline Change due to Erosion / Accretion Tiruvananthapuram District - Kerala coast

SHEET NO. 6

INDEX NO.8,9



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	Two stretches: i) N of Puthura upto N of Anjengo
STABLE ZONES	
Stable Coast	Four stretches: i) NW of Anjengo, ii) NW of Kayikkara, iii) at Rathikkaito Vabhavam and iv) short stretch between several groyne fields along this coast
Artificial Coast (Eroding Coast)	i) S of Chinkaratoppu upto Puthura and ii) between S and N of Nedumkanda (a series of groyne fields are observed near
EROSION ZONES	
Low Erosion	Dominates the northern part of this coast and is located between a series of groyne fields from N of Vabhavam onwards
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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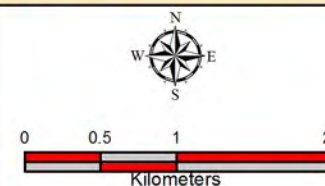


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	Creek
	River
	District Boundary
	Settlement
	Village/Town



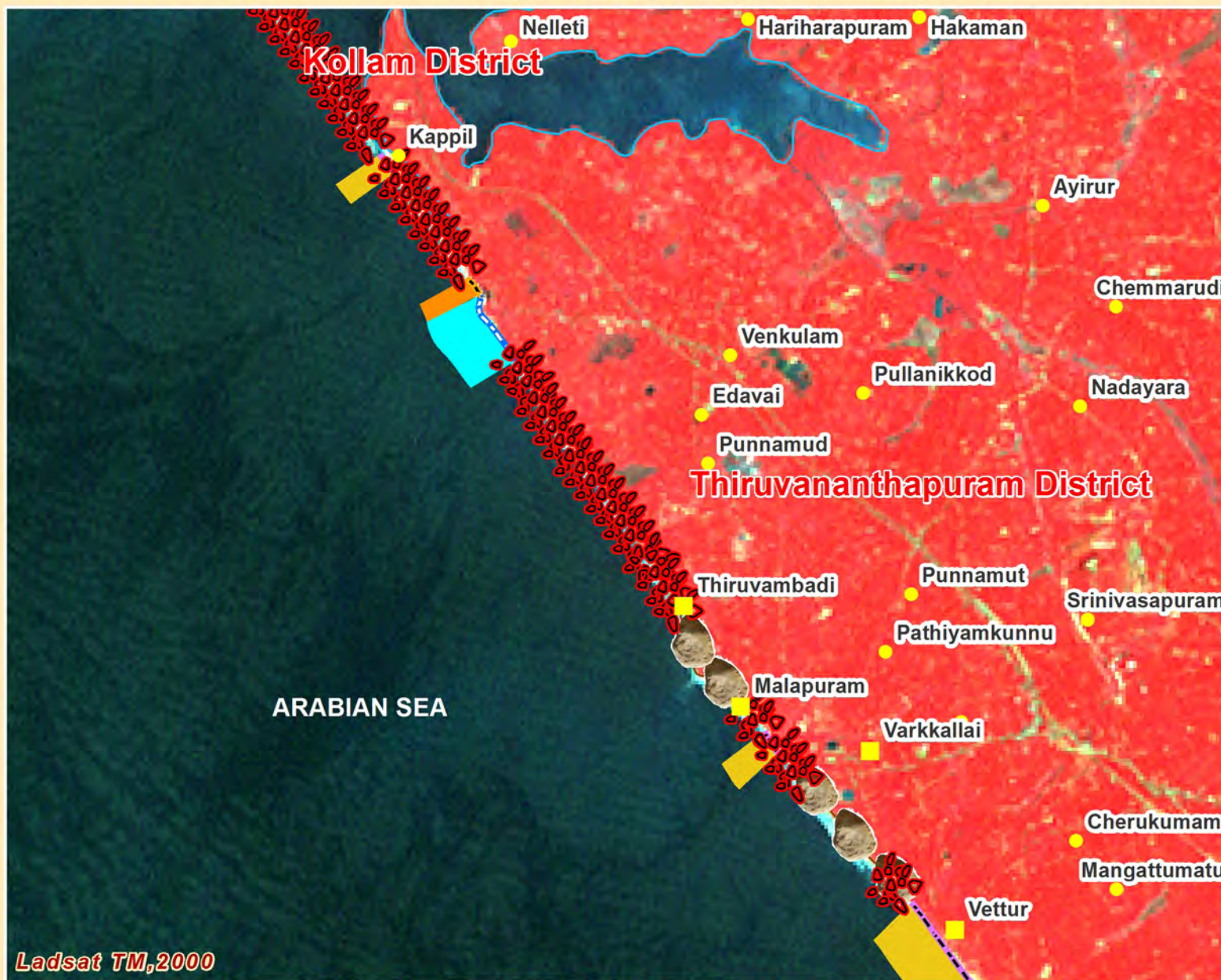
Status of Shoreline Change due to Erosion / Accretion Tiruvananthapuram District - Kerala coast

SHEET NO. 7

INDEX NO.10,11



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	Nil
STABLE ZONES	
Stable Coast	A very short stretch located N of Punnamood village
Artificial Coast (Eroding Coast)	Dominates this stretch of the coast at several places i) at Tirutampadi upto N of Punnamood, ii) S and N of Kappil (Near Paravur Tekke Kayal). Series of groyne fields located N and S of Vettur
EROSION ZONES	
Low Erosion	Four stretches: i) S and N of Vettur (along the groyne fields) ii) between S of Varkkallai and Malapuram, iii) along Malapuram to Tirutampadi (rocky coast) and iv) at Kappil
Medium Erosion	Small stretches i) N of Vettur and ii) S of Kappil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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Creek



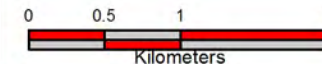
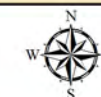
River



District Boundary

Settlement

Village/Town



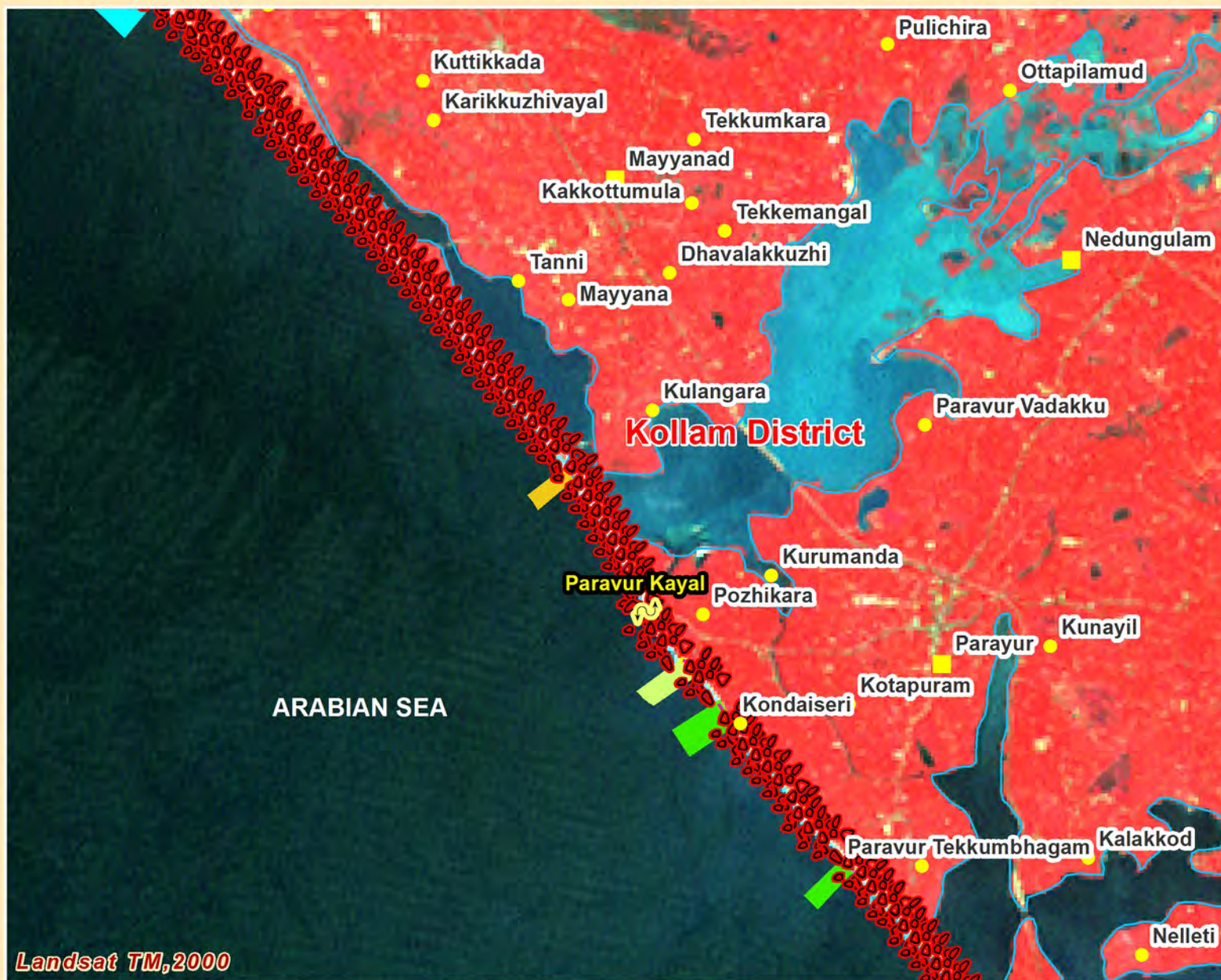
Status of Shoreline Change due to Erosion / Accretion Kollam District - Kerala coast

SHEET NO. 8

INDEX NO.11,12



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Very short stretches at i) Paravur, and ii) Kondaiseri
Low Accretion	N of Kondaiseri
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	Dominates the entire stretch of this coastline extending from S of Paravur upto N of Kuttikkada
EROSION ZONES	
Low Erosion	A very short stretch at N of Paravur Kayal
Medium Erosion	Nil
High Erosion	Nil



Landsat TM, 2000

	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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Creek



River



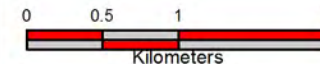
District Boundary



Settlement



Village/Town



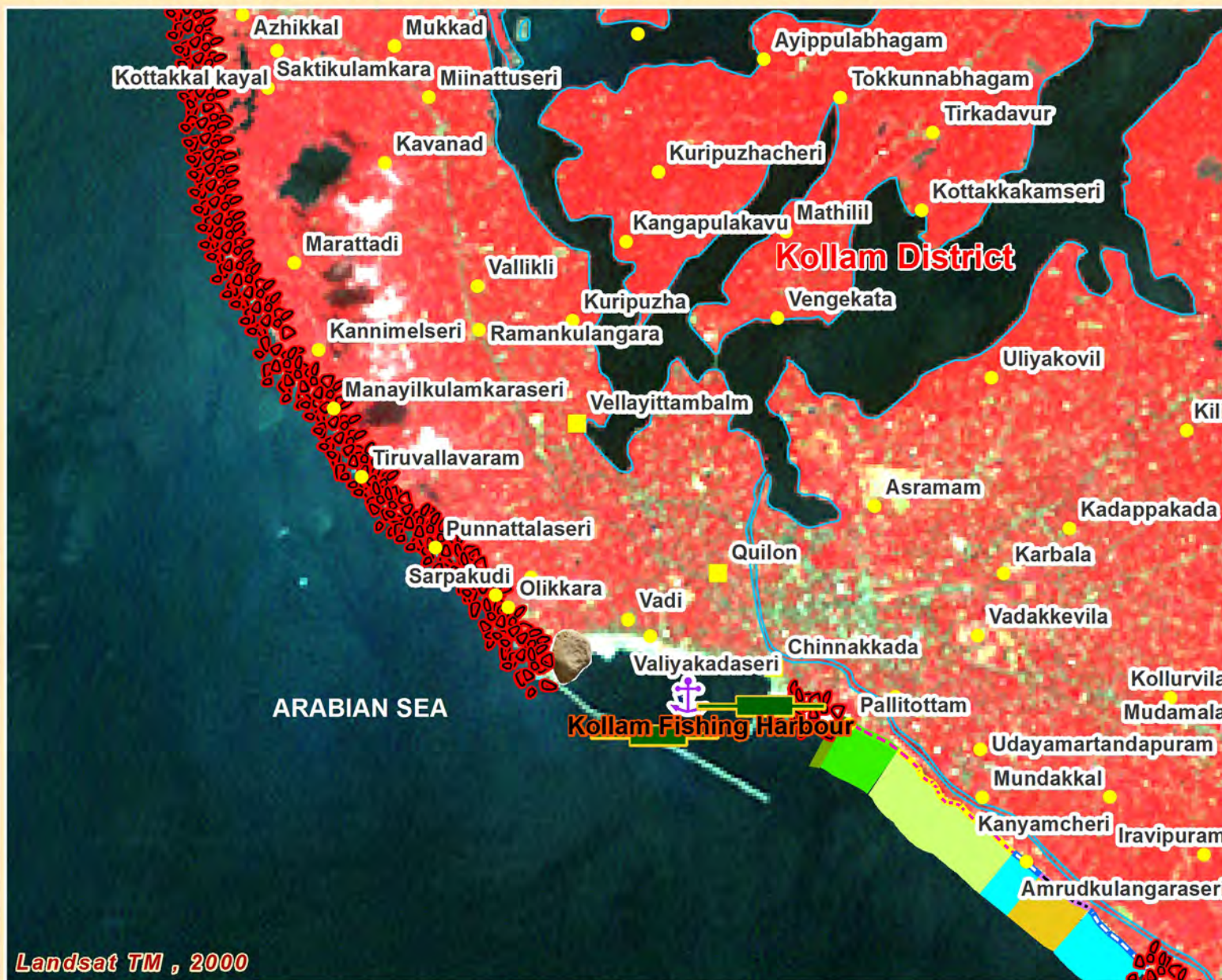
Status of Shoreline Change due to Erosion / Accretion Kollam District - Kerala coast

SHEET NO. 9

INDEX NO.12,13



ACCRETION ZONES	Location
High Accretion	S of Kollam Fishing Harbour - near Chinnakada
Medium Accretion	S of Kollam Fishing Harbour - near Pallitottam
Low Accretion	N and S of Mundakkal
STABLE ZONES	
Stable Coast	Two stretches: i) at Amrudkulangaseri and ii) S E of Irvaipuram
Artificial Coast (Eroding Coast)	Dominate this coastline. S and N of Kollam Fishing Harbour, ii) entire coastal stretch extending from Tangasetri (N of Kollam Fishing Harbour) upto E of Azhikal in the North. 4 groyne fields located between Punnattalaseri and Tiruvallavaram
EROSION ZONES	
Low Erosion	S of Amrudkulangaseri
Medium Erosion	Nil
High Erosion	Nil



Landsat TM , 2000

	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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Creek



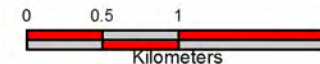
River



District Boundary

Settlement

Village/Town



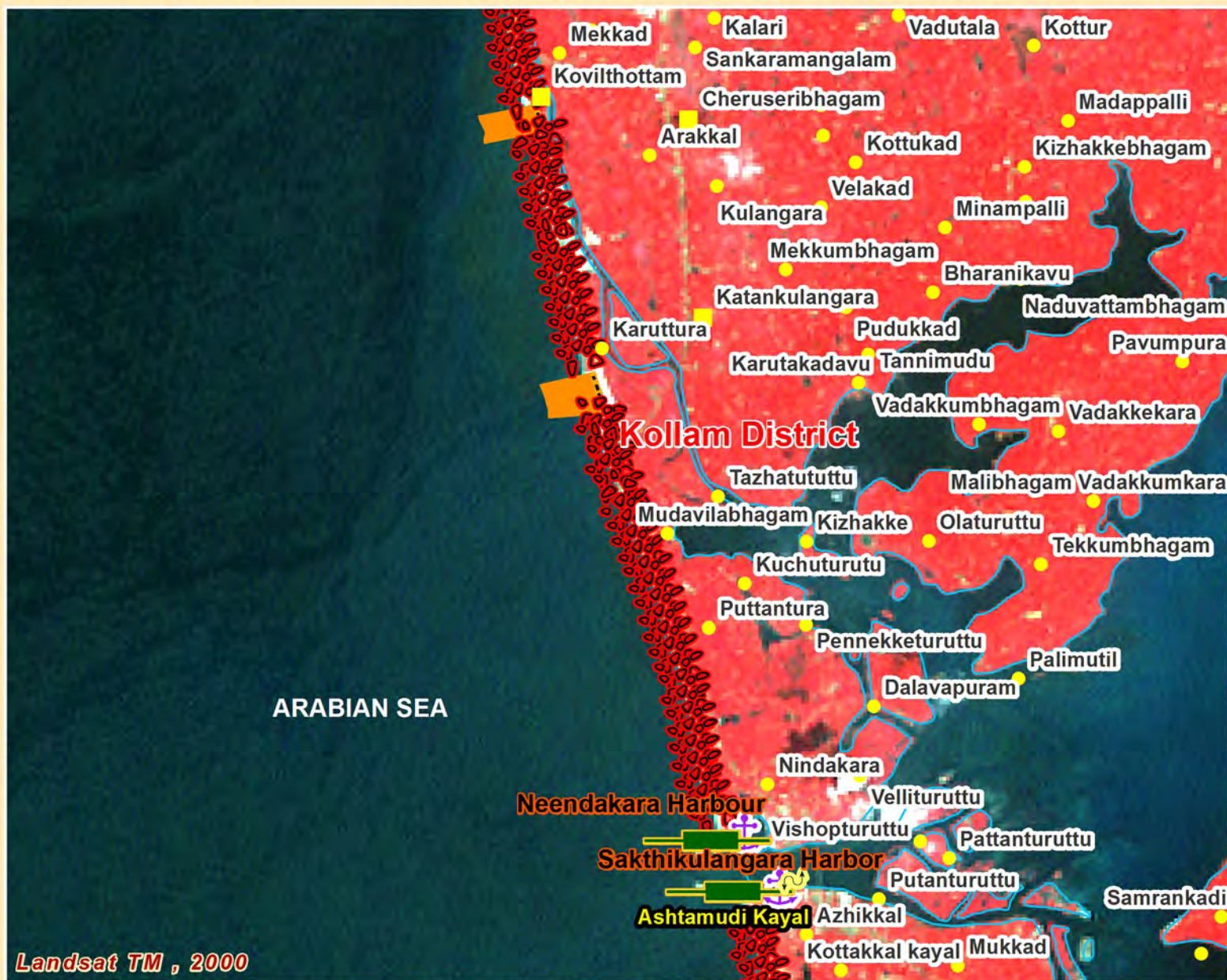
Status of Shoreline Change due to Erosion / Accretion Kollam District - Kerala coast

SHEET NO. 10

INDEX NO. 13,14



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	Nil
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	Dominates the entire coastline S and N of Neendakara Harbour and extends right upto N of Mekkad. Groynes have been constructed S of Neendakara Harbour
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Two short stretches: i) S of Kruttura and ii) at
High Erosion	Nil



Landsat TM , 2000

	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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Creek



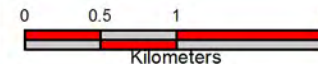
River



District Boundary

Settlement

Village/Town



Status of Shoreline Change due to Erosion / Accretion Kollam District - Kerala coast

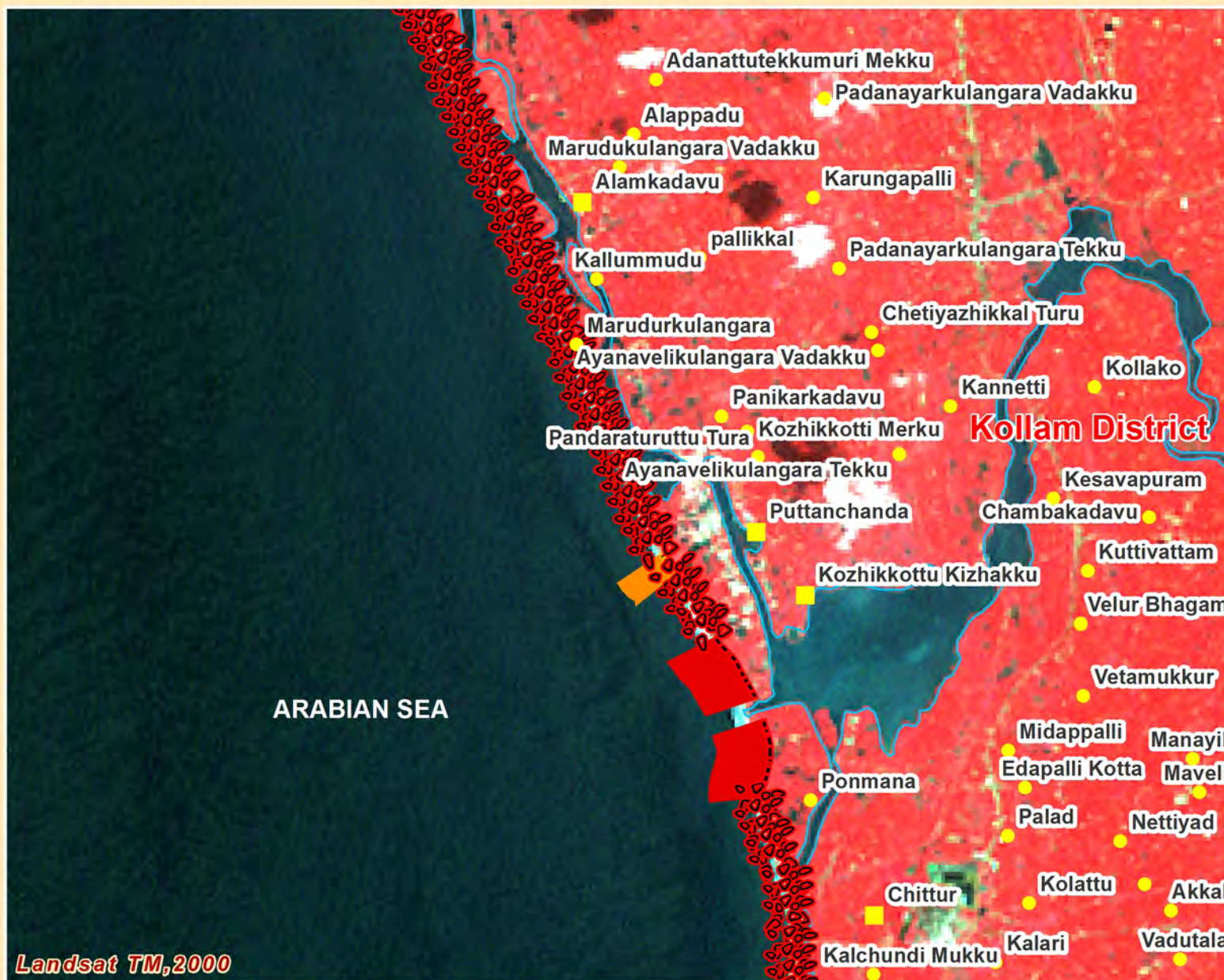
SHEET NO. 11

INDEX NO. 14,15,16



Arabian Sea

ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	Nil
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	Full stretch of this coastline- extending from Kalchudi Mukku to NW of Adanattutekkumuri Mekku
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	A short stretch W of Puttanchanda
High Erosion	A dominant patch at the mouth of Vattakayal Lake



ARABIAN SEA

Kollam District

Landsat TM, 2000

	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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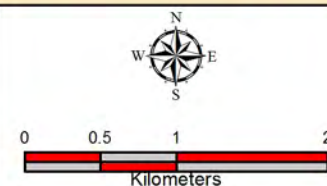


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जहाँ से हरियाली है वहाँ से खुशहाली है।

	Creek
	River
	District Boundary
	Settlement
	Village/Town



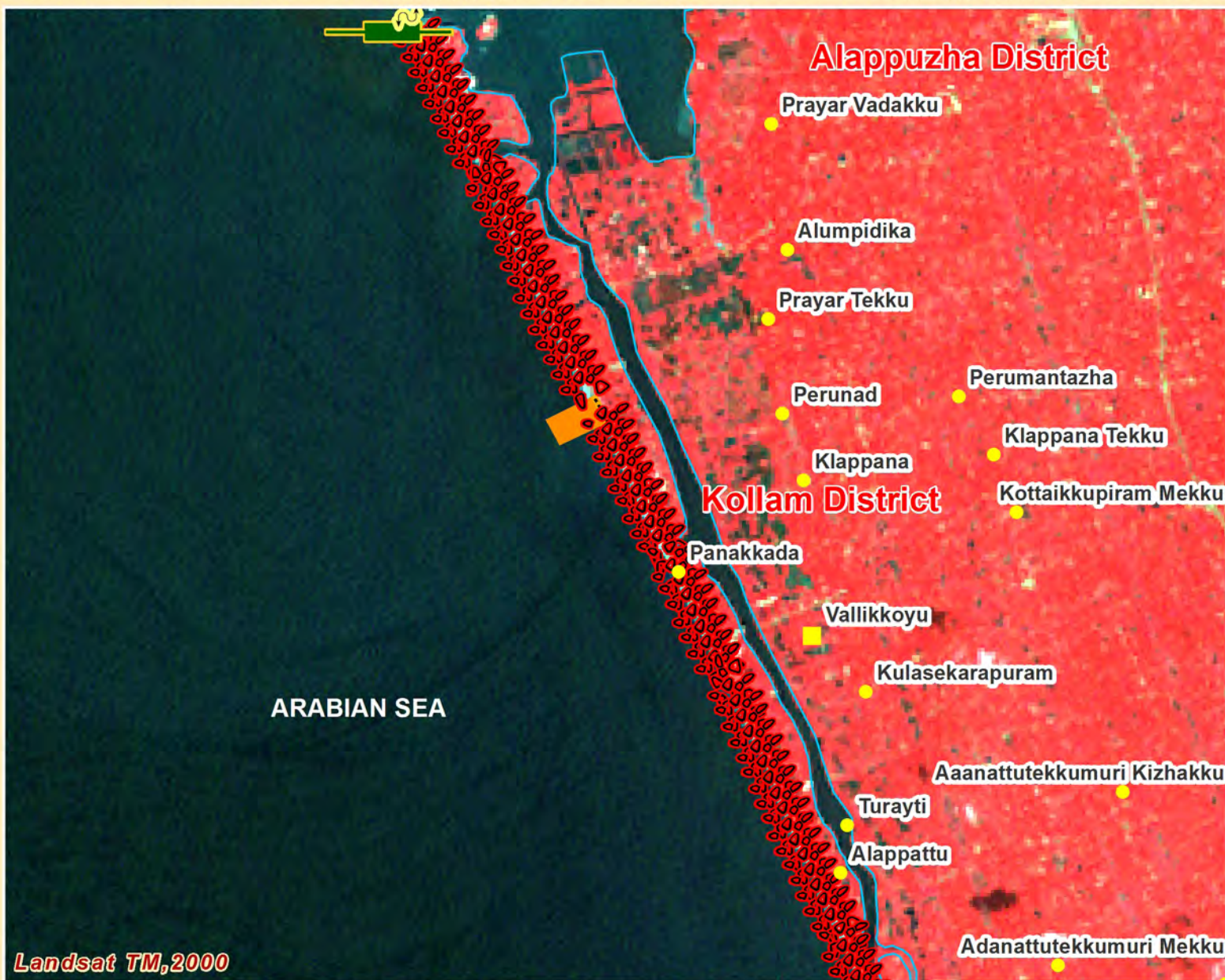
Status of Shoreline Change due to Erosion / Accretion Kollam and Alappuzha District - Kerala coast

SHEET NO. 12

INDEX NO. 15,16,17



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	Nil
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	Full stretch of this coastline- extending from Adanattutekkumuri Mekku upto mouth of Kayamkulam Kayal
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Short stretch N of Panakkada
High Erosion	Nil



Landsat TM, 2000

	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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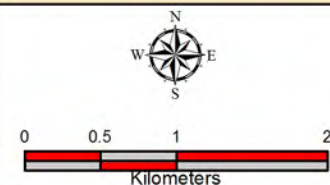


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	Creek
	River
	District Boundary
	Settlement
	Village/Town



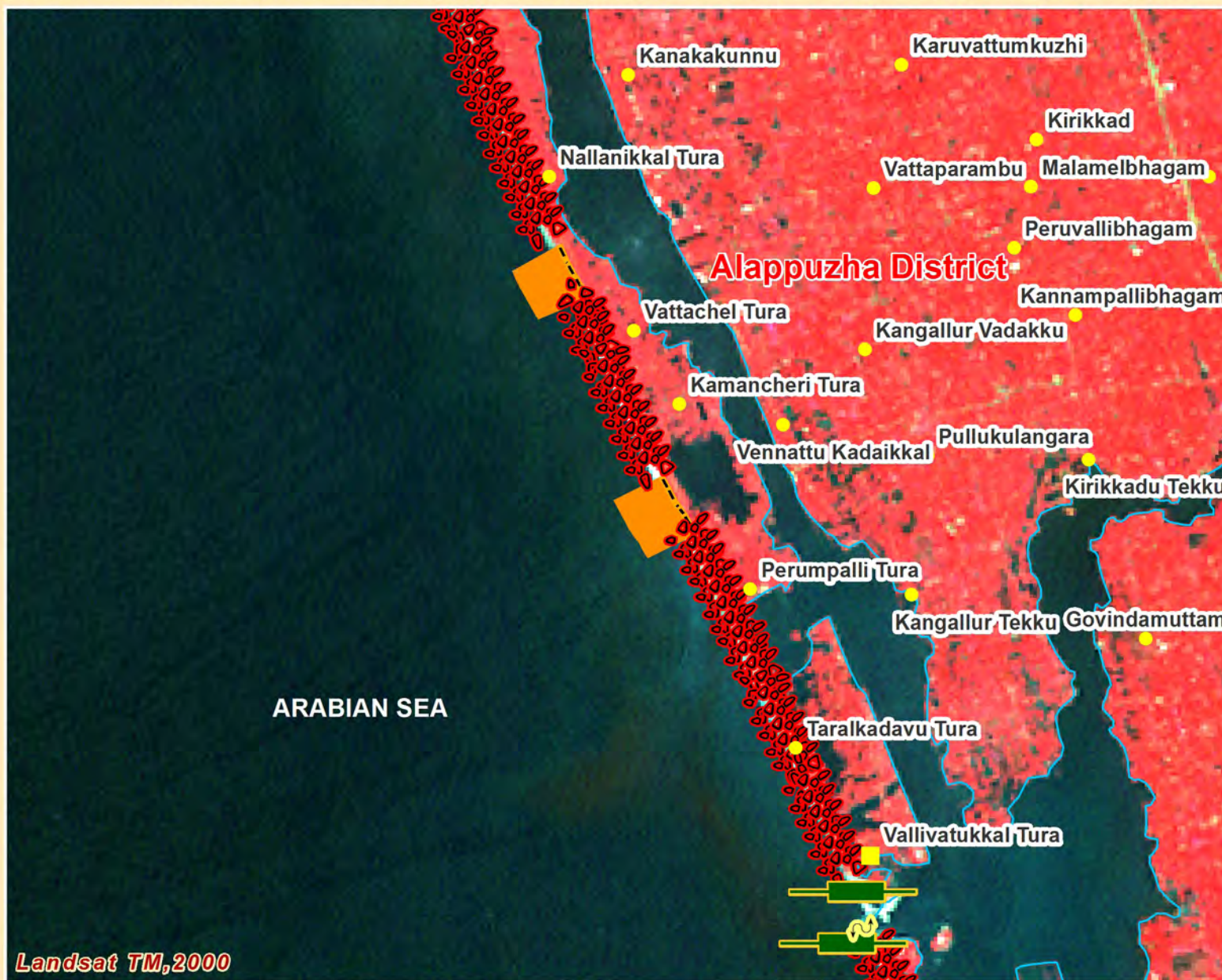
Status of Shoreline Change due to Erosion / Accretion Alappuzha District - Kerala coast

SHEET NO. 13

INDEX NO.17,18



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	Nil
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	Entire stretch of this coastline- extending from N of mouth of Kayamkulam Kayal upto N of Nallanikaltura
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Two stretches: i) N of Perumpallitura and ii) N of Vattancheltura
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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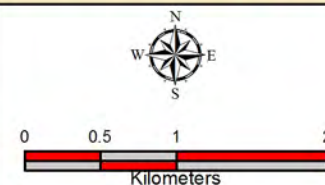


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	Creek
	River
	District Boundary
	Settlement
	Village/Town



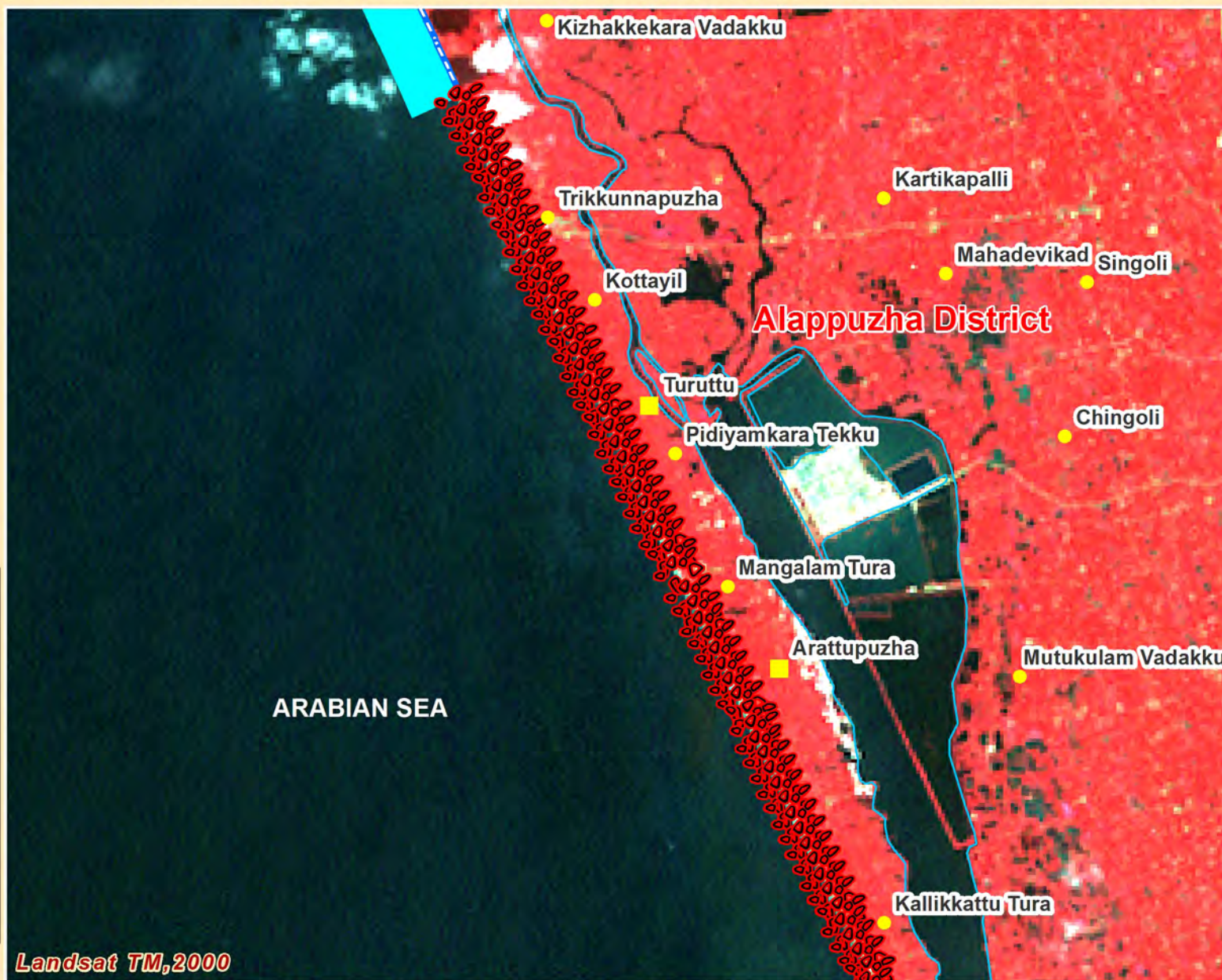
Status of Shoreline Change due to Erosion / Accretion Alappuzha District - Kerala coast

SHEET NO. 14

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ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	Nil
STABLE ZONES	
Stable Coast	W of Kizhakkekara Vadakku
Artificial Coast (Eroding Coast)	Entire coastal stretch- extending from Kallikattu Tura to N of Trikkunnapuzha
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



Landsat TM, 2000

	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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Creek



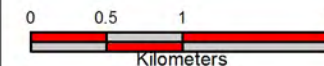
River



District Boundary

Settlement

Village/Town



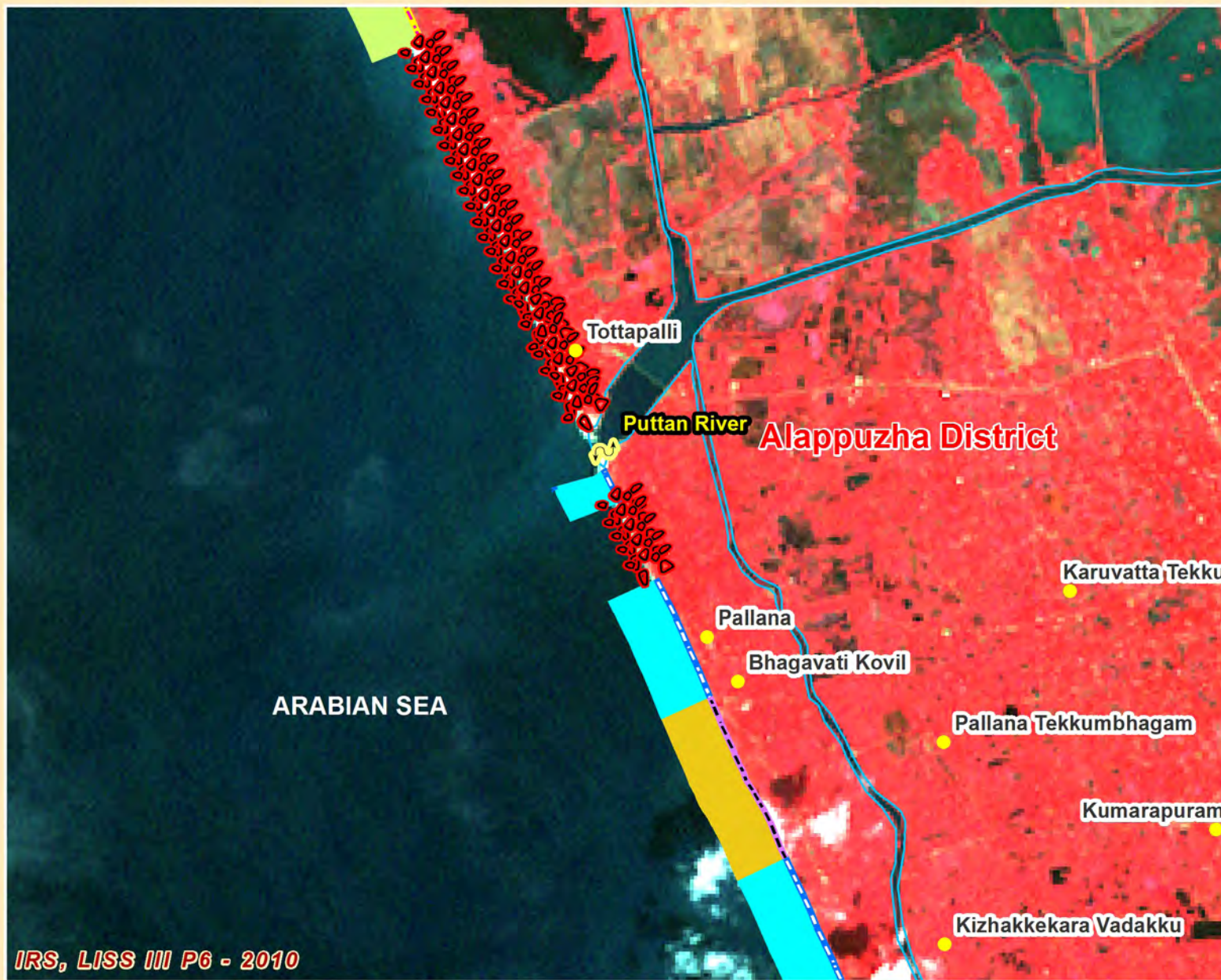
Status of Shoreline Change due to Erosion / Accretion Alappuzha District - Kerala coast

SHEET NO. 15

INDEX NO. 19,20



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	S of Purakkad
STABLE ZONES	
Stable Coast	Three stretches: i) NW of Kizhakkekara Vadakku, ii) N of Bhagavati Kovil upto N of Pallana and iii) S of Puttan River mouth
Artificial Coast (Eroding Coast)	i) From N of Pallana upto S of Puttan River mouth, ii) N of Puttan River mouth upto S of Purakkad. Breakwaters located at Tottapalli
EROSION ZONES	
Low Erosion	W of Kumarapuram upto Bhagavati Kovil
Medium Erosion	Nil
High Erosion	Nil



High Accretion	Seawall	Port
Medium Accretion	Groynes	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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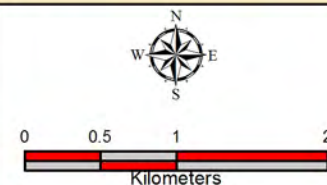


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Creek
River
District Boundary
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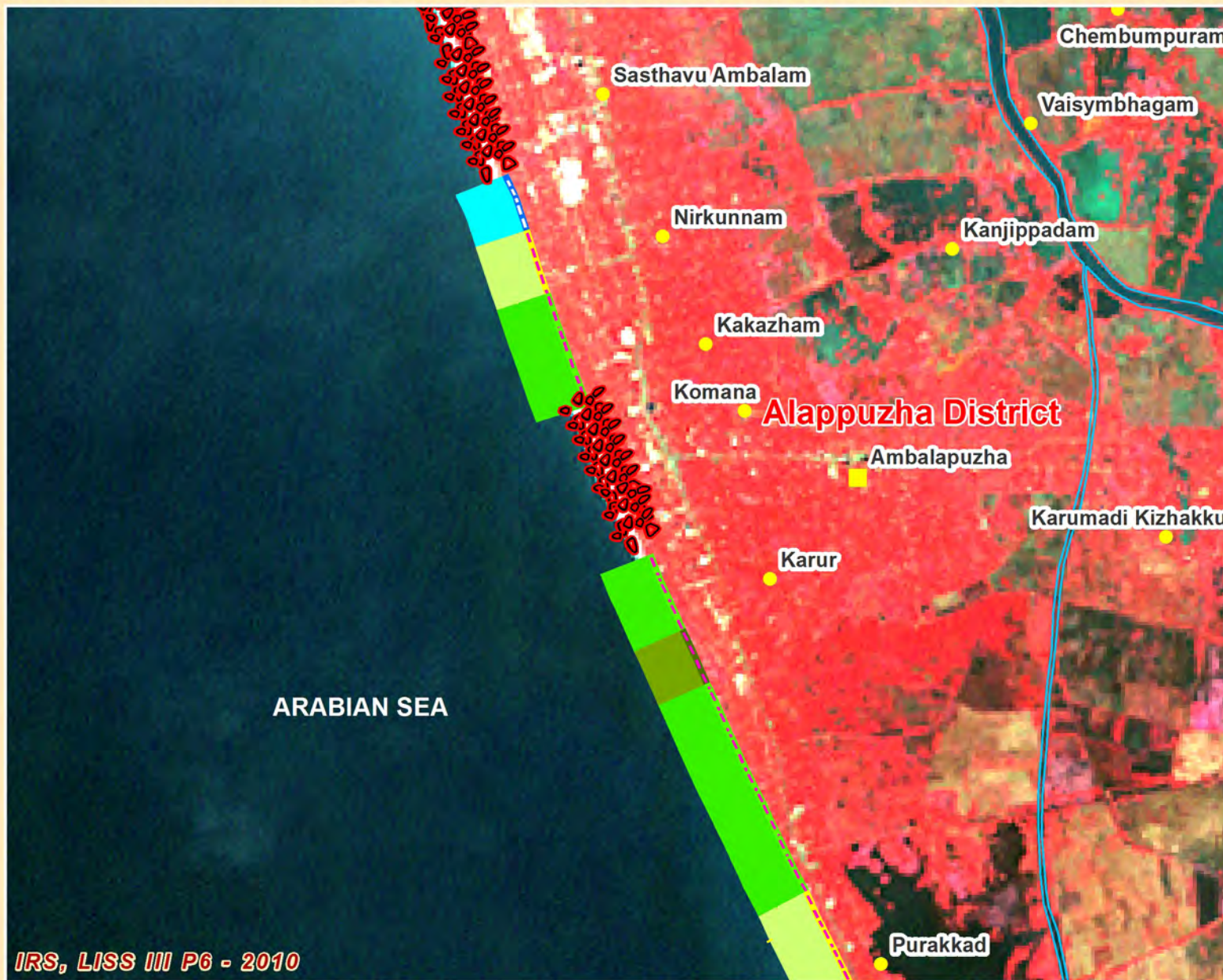
Status of Shoreline Change due to Erosion / Accretion Alappuzha District - Kerala coast

SHEET NO. 16

INDEX NO.20,21



ACCRETION ZONES	Location
High Accretion	A short stretch located near Karur
Medium Accretion	Present at three stretches along this coast i) N of Purakkad upto S of Karur, ii) NE of Karur iii) to W of Kakazham
Low Accretion	W of Purakkad and W of Nirkunnam
STABLE ZONES	
Stable Coast	A very short stretch N of Nirkunnam
Artificial Coast (Eroding Coast)	Two long stretches: i) N of Karur upto S of Kakazham and ii) N of Nirkunnam to NW of Sasthavu Ambalam
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



IRS, LISS III P6 - 2010

	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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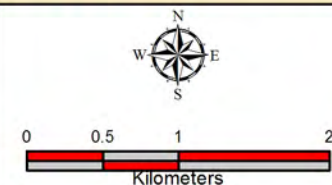


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	Creek
	River
	District Boundary
	Settlement
	Village/Town



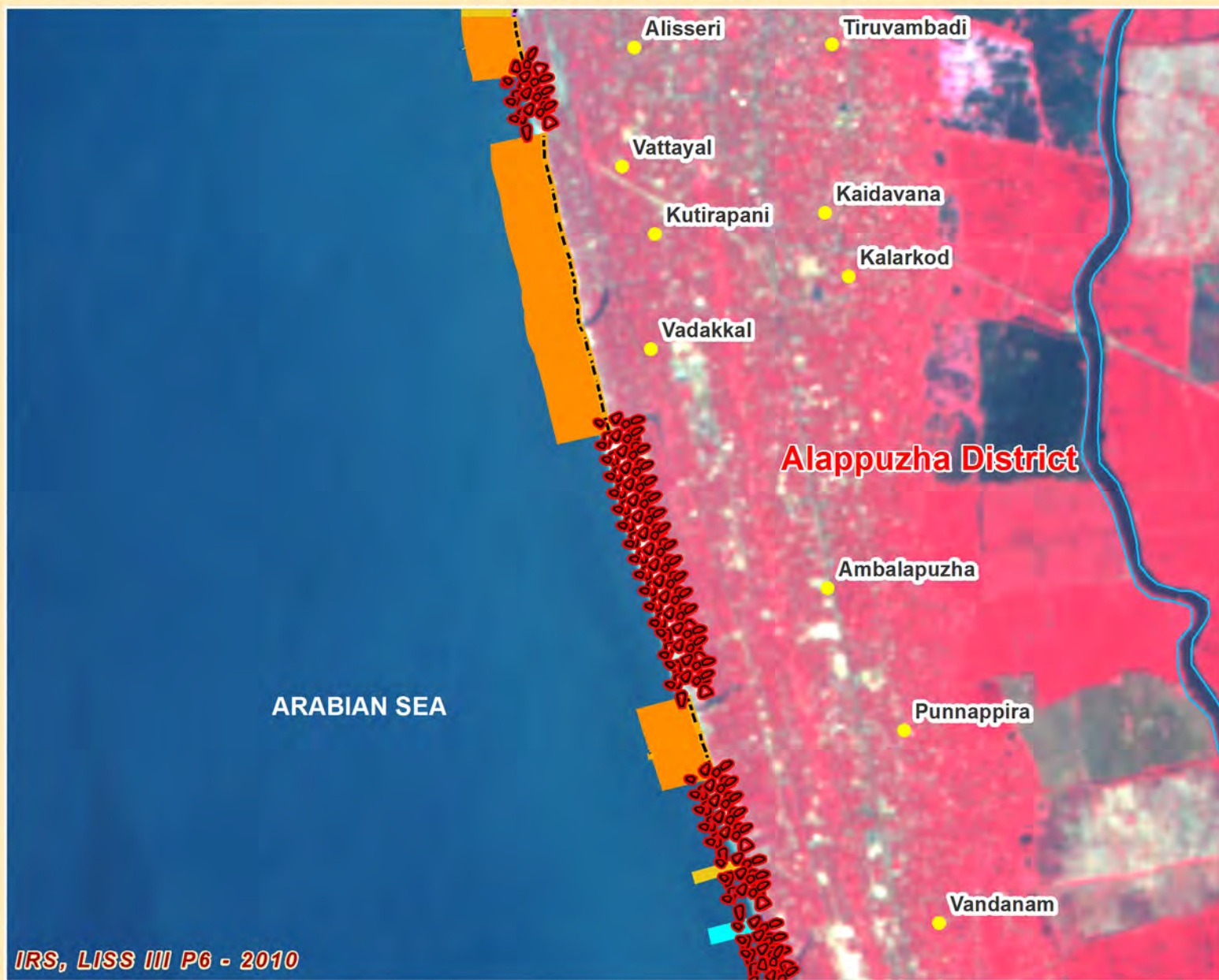
Status of Shoreline Change due to Erosion / Accretion Alappuzha District - Kerala coast

SHEET NO. 17

INDEX NO. 21,22,23



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	Nil
STABLE ZONES	
Stable Coast	A very short stretch ay E of Vandanam
Artificial Coast (Eroding Coast)	Occupies 3/4 of this coastline- extending in patches from i) SW of Vandanam upto W of Punnappira, ii) NW of Punnappira upto SW of Vadakkal and iii) a short stretch extending form NW of Vattayal upto W of Alisseri
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Three stretches along this coast: i) W of Punnappira, ii) SW of Vadakkal upto NW of Vattayal and W of Alisseri
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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Creek



River



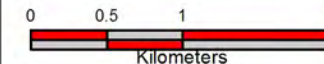
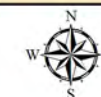
District Boundary



Settlement



Village/Town



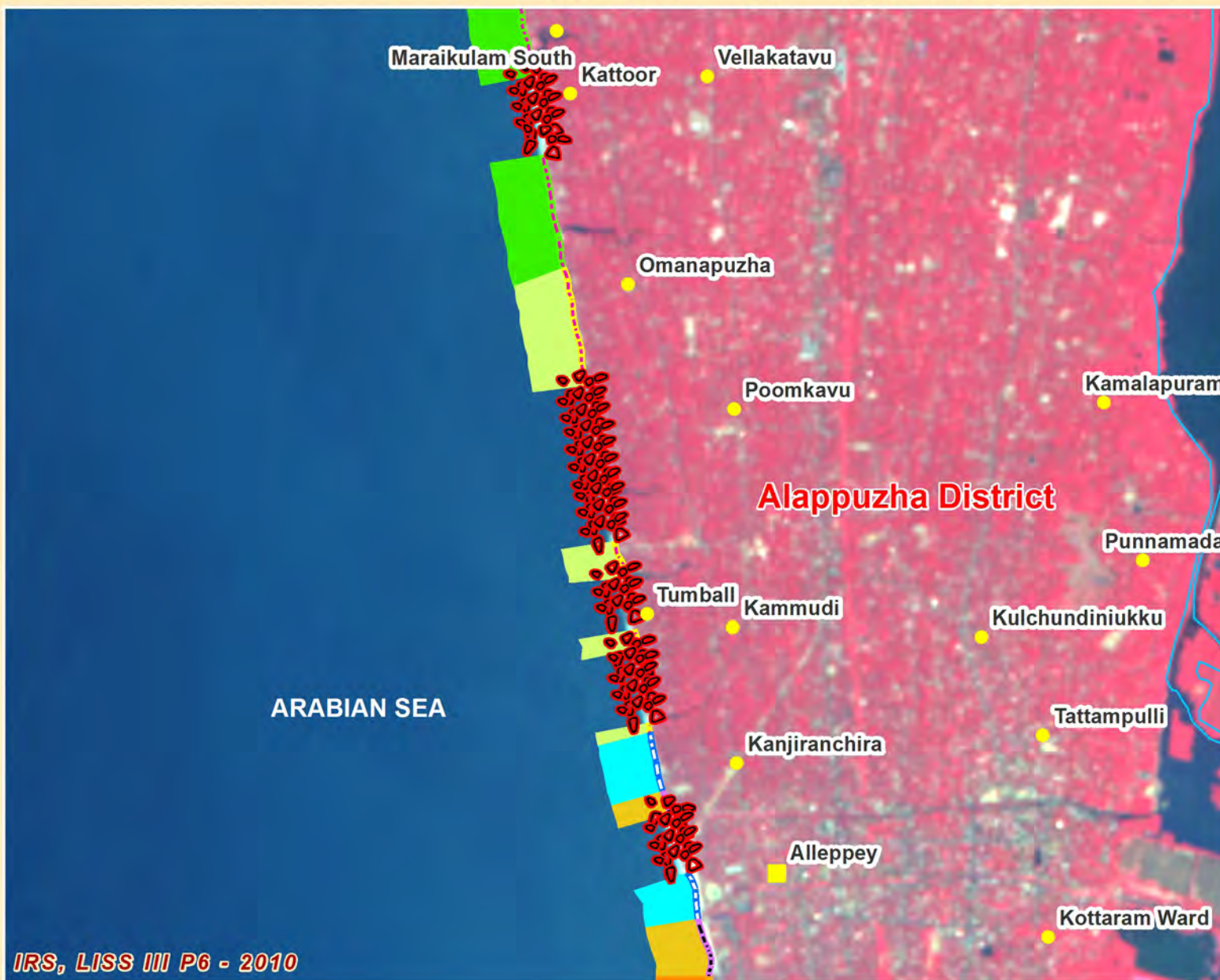
Status of Shoreline Change due to Erosion / Accretion Alappuzha District - Kerala coast

SHEET NO. 18

INDEX NO. 23



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Dominates the northern part of this coastal stretch from SW of kattukada upto W of Mariakulam
Low Accretion	Four stretches: i) a short stretch N of Kanjiranchira, ii) S of Tumball, iii) N of Tumball and iv) NW of Tumball
STABLE ZONES	
Stable Coast	Two short stretches: i) S and N of Alleppey
Artificial Coast (Eroding Coast)	Five stretches: extending from i) N of Alleppey upto Kattukuda
EROSION ZONES	
Low Erosion	S of Alleppey
Medium Erosion	Nil
High Erosion	Nil



IRS, LISS III P6 - 2010

	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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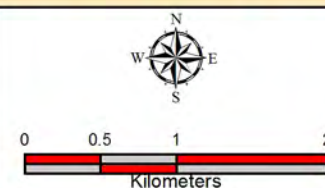


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Status of Shoreline Change due to Erosion / Accretion Alappuzha District - Kerala coast

SHEET NO. 19

INDEX NO. 23,24



ACCRETION ZONES	Location
High Accretion	This is an accreting coast - varying between High and medium accretion for almost
Medium Accretion	Nil
Low Accretion	Nil
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	A small stretch extending S and N of Kochanakulangara
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



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	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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Creek



River



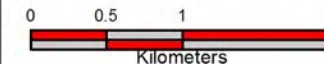
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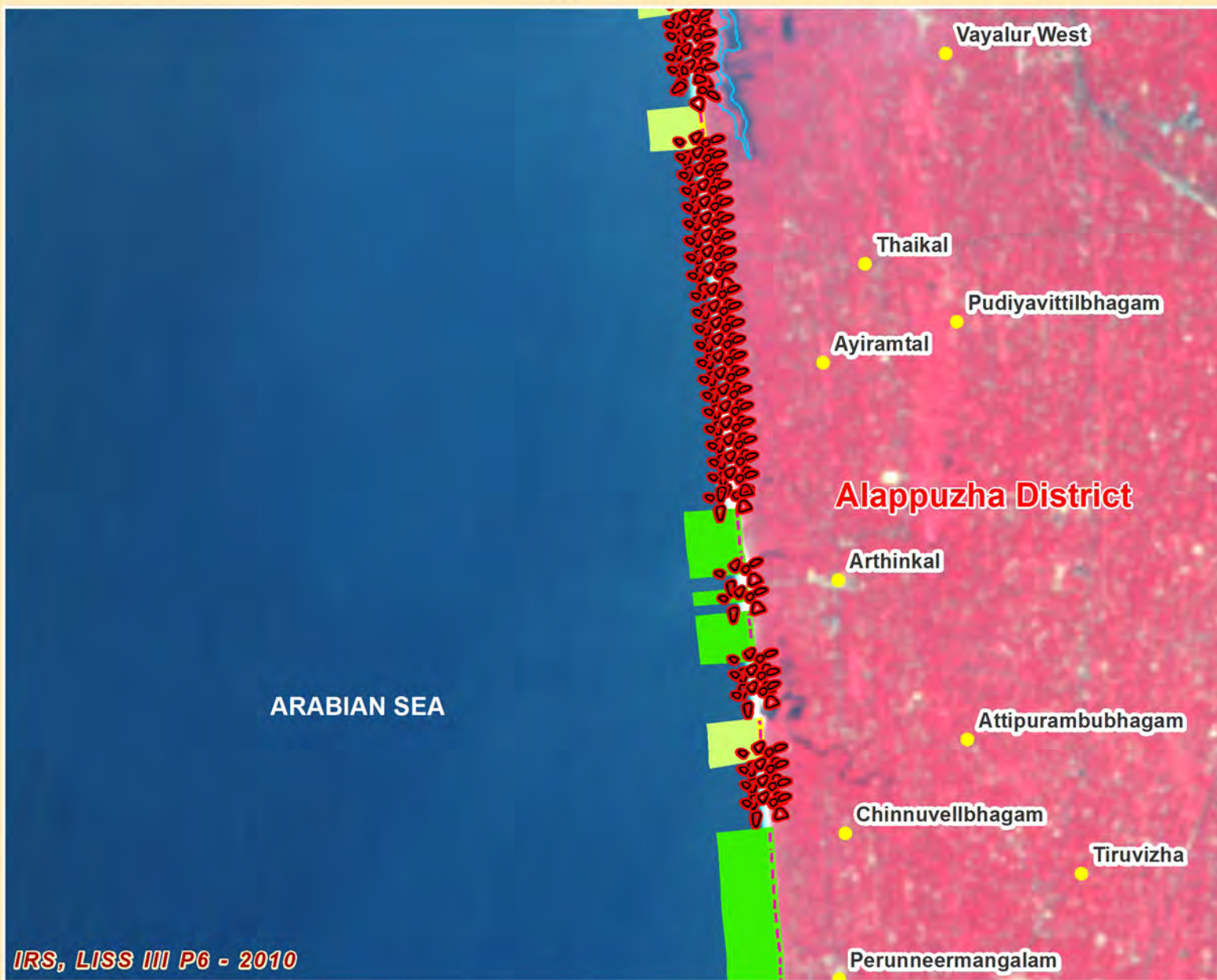
Status of Shoreline Change due to Erosion / Accretion Alappuzha District - Kerala coast

SHEET NO. 20

INDEX NO. 24,25



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Dominates the southern part of this coastline from SW of Tiruvizha upto NW of Arattunga
Low Accretion	Two short stretches i) W of Attipurambubhagam and Sw of vayalur West
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	Nearly 70% of the coast - dominating ion the northern part
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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Creek



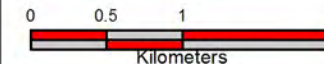
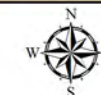
River



District Boundary

Settlement

Village/Town



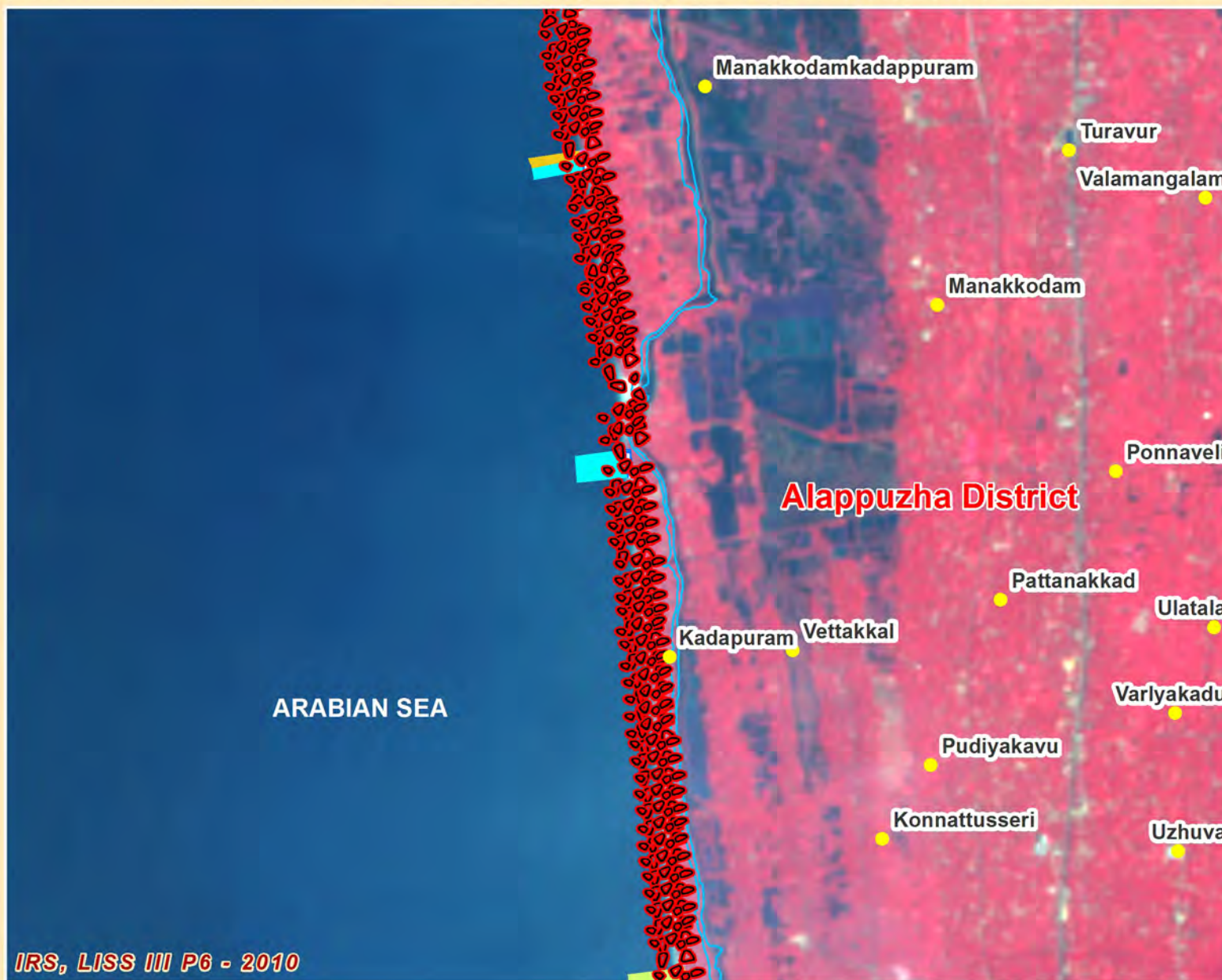
Status of Shoreline Change due to Erosion / Accretion Alappuzha District - Kerala coast

SHEET NO. 21

INDEX NO.25,26



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	SW of Konnattusseri
STABLE ZONES	
Stable Coast	Two short stretches: i) N of Turavurtekku and ii) N of Kadapuram
Artificial Coast (Eroding Coast)	Majority of the coast extends from Konnattusseri to Manakkodamkadappuram
EROSION ZONES	
Low Erosion	SW of Manakkodamkadappuram
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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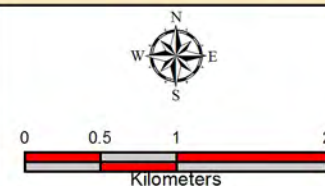


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	Creek
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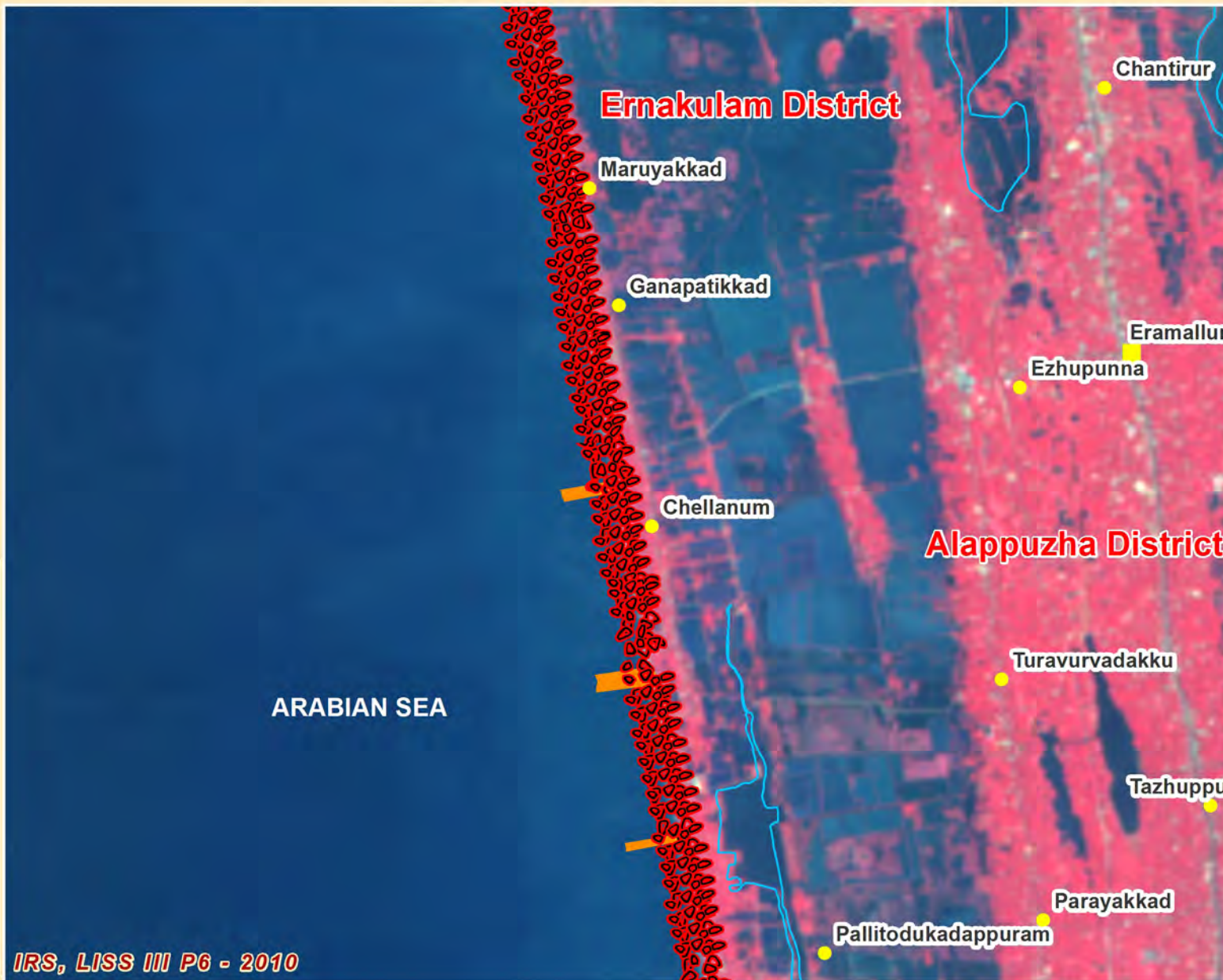
Status of Shoreline Change due to Erosion / Accretion Ernakulam/Alappuzha District - Kerala coast

SHEET NO.22

INDEX NO. 26,27



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	Nil
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	99% of this coastline- extending from Pallithodu upto NW of Mayriyakkadu
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Three very short stretches S and N of Chellanum
High Erosion	Nil



IRS, LISS III P6 - 2010

	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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Creek



River



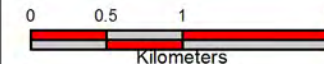
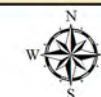
District Boundary



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Status of Shoreline Change due to Erosion / Accretion Ernakulam/Alappuzha Districts - Kerala coast

SHEET NO. 23

INDEX NO. 27



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	A very short stretch W of Kumbalangi
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	99% of the coastline- extending from S of Kandakkadavu in the south upto NVV of Mansseri in the north
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



IRS, LISS III P6 - 2010

	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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Creek



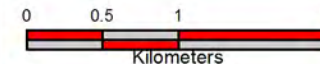
River



District Boundary

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Village/Town



Status of Shoreline Change due to Erosion / Accretion Ernakulam District - Kerala coast

SHEET NO. 24

INDEX NO. 28,29



ACCRETION ZONES	Location
High Accretion	N of Cochin Port
Medium Accretion	Nil
Low Accretion	Nil
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	Dominates both the southern and northern part of this coastal stretch- S and N of Cochin Port
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



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High Accretion	Seawall	Port
Medium Accretion	Groynes	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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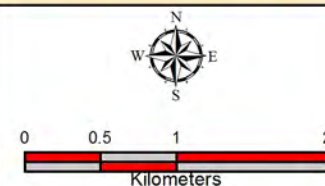


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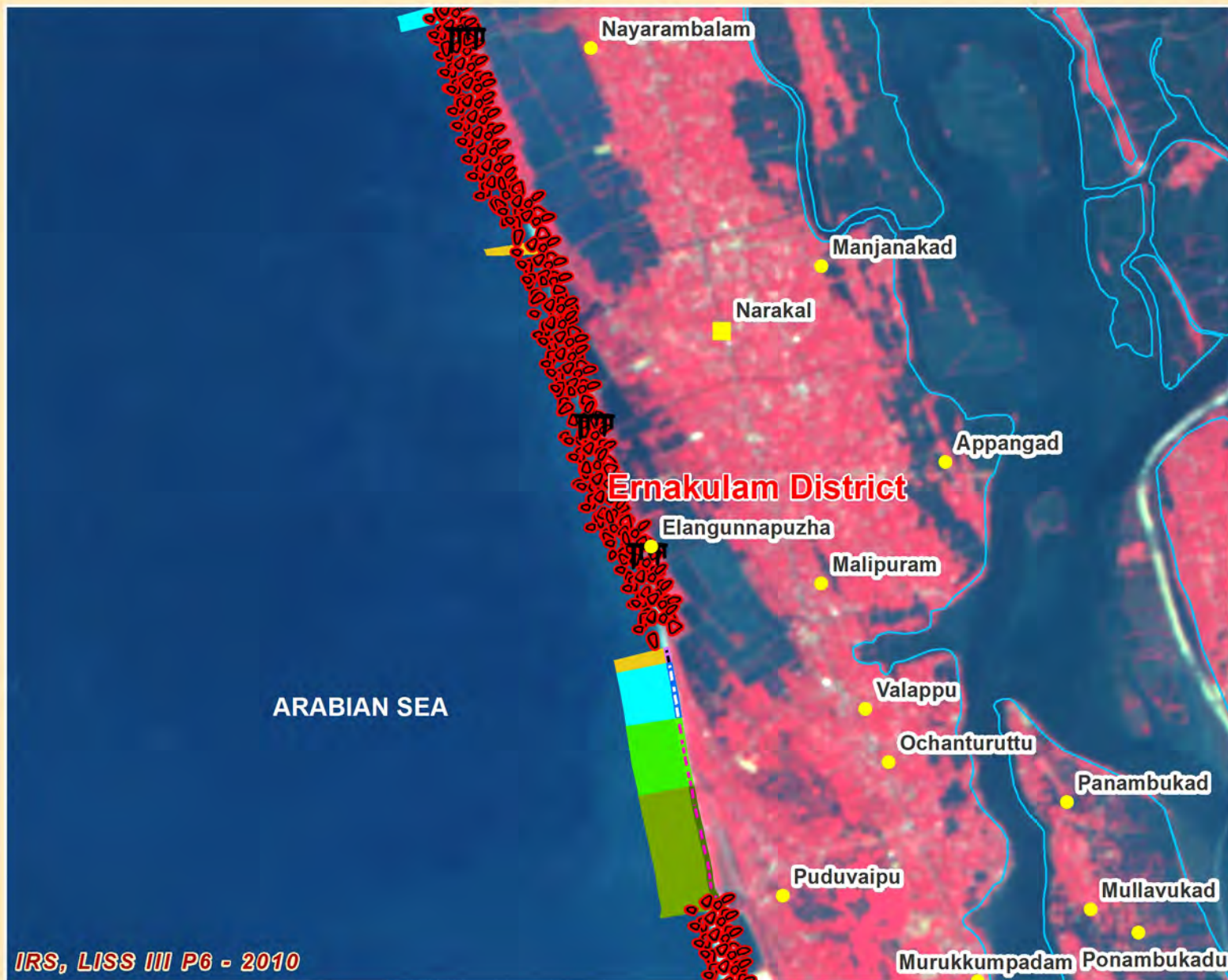
Status of Shoreline Change due to Erosion / Accretion Ernakulam District - Kerala coast

SHEET NO. 25

INDEX NO. 29,30



ACCRETION ZONES	Location
High Accretion	W of Puduvaipu upto W of Ochanturuttu
Medium Accretion	NW of Ochanturuttu
Low Accretion	Nil
STABLE ZONES	
Stable Coast	W of Valappu
Artificial Coast (Eroding Coast)	A small patch S of Puduvaipu and dominates the central and northern part of the coastal stretch- extending from Valappu upto W of Nayarambalam
EROSION ZONES	
Low Erosion	Two short stretches i) SW of Malipuram and ii) NW of Narakal
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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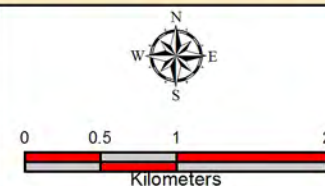


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	Creek
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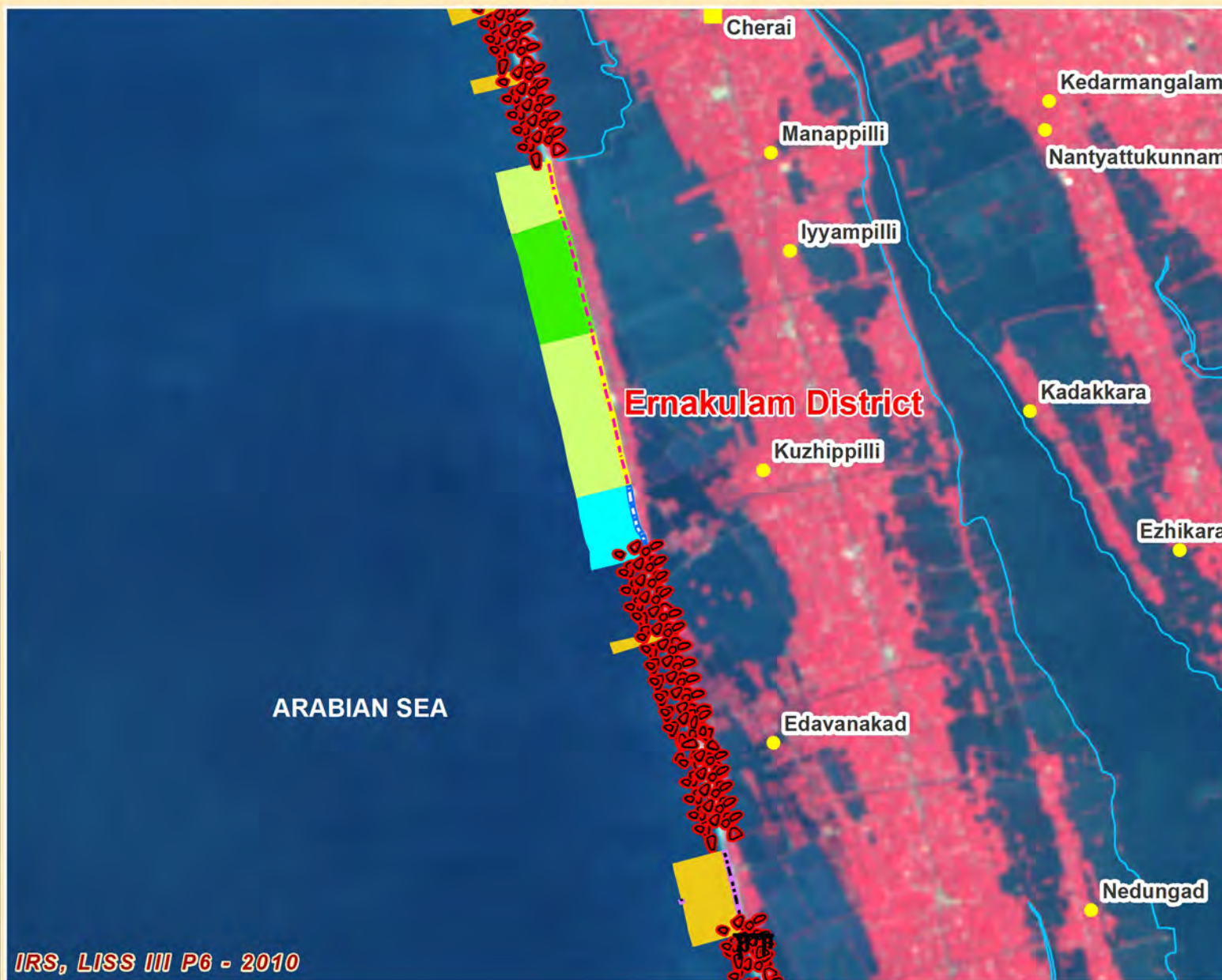
Status of Shoreline Change due to Erosion / Accretion Ernakulam District - Kerala coast

SHEET NO. 26

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ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	A short stretch W of Iyampilli
Low Accretion	Two short stretches S and N of Iyampilli
STABLE ZONES	
Stable Coast	SW of Kuzhipilli
Artificial Coast (Eroding Coast)	Two stretches: i) in the south from S and N of Edavankad and in the north, located between S and N of Cherai
EROSION ZONES	
Low Erosion	Three short patches: i) north of the groyne fields W of Nedungad, ii) NW of Edavankad and iii) S of Cherai
Medium Erosion	Nil
High Erosion	Nil



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High Accretion	Seawall	Port
Medium Accretion	Groynes	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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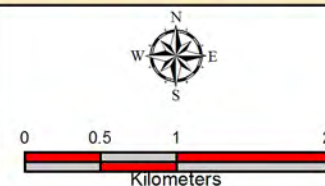


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Status of Shoreline Change due to Erosion / Accretion Thrissur/Ernakulam District - Kerala coast

SHEET NO. 27

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ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	N of Periyar River mouth
Low Accretion	N of Periyar River mouth
STABLE ZONES	
Stable Coast	S of Azhikod
Artificial Coast (Eroding Coast)	A long stretch located S of Periyar River mouth and another stretch N of periyar river mouth
EROSION ZONES	
Low Erosion	i) N of Cherai and ii) NW of Azhikod
Medium Erosion	Nil
High Erosion	Nil



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	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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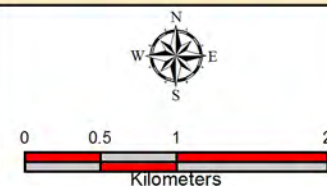


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Status of Shoreline Change due to Erosion / Accretion Thissur District - Kerala coast

SHEET NO. 28

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ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	At Tattankadavu
STABLE ZONES	
Stable Coast	i) At Arppukadavu and ii) Vakadapuram
Artificial Coast (Eroding Coast)	99% of this coast is dominated by ripraps- extending from SW of Eriyad upto W of Emmad
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	At Kampinikkadavu
High Erosion	Nil



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	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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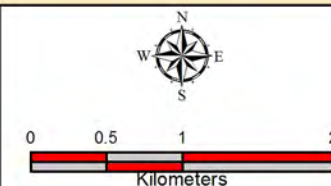


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	Creek
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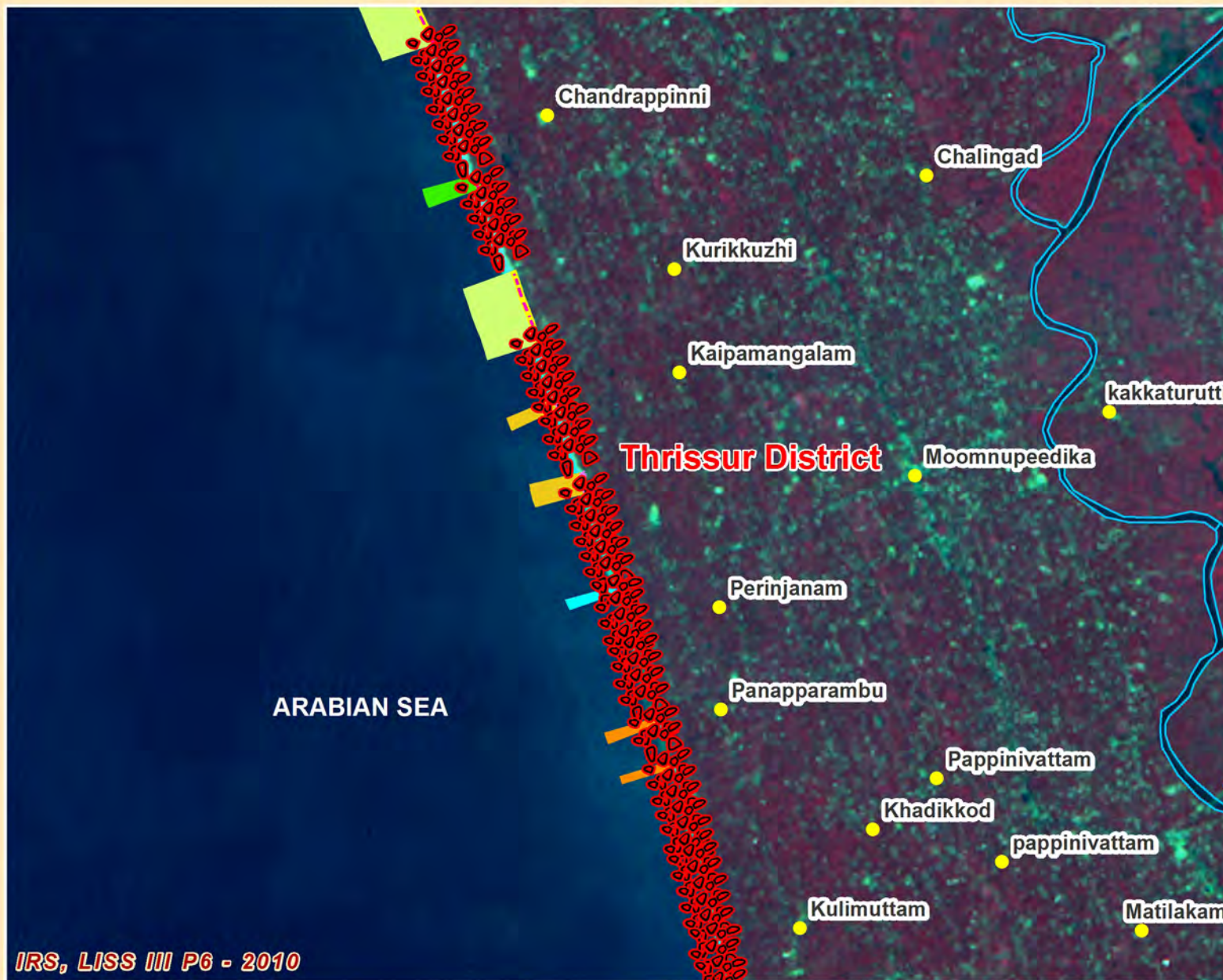
Status of Shoreline Change due to Erosion / Accretion Thrissur District - Kerala coast

SHEET NO. 29

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ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	S of Chandrappinni
Low Accretion	Two stretches: i) W of Kurikkuzhi and ii) NW of Chandrappinni
STABLE ZONES	
Stable Coast	NW of Perinjanam
Artificial Coast (Eroding Coast)	Throughout the coast extending from S of Kulimuttam upto NW of Chandrappinni
EROSION ZONES	
Low Erosion	S and W of Kaipamangalam
Medium Erosion	S and W of Panapparambu
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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Creek



River



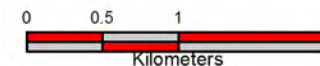
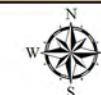
District Boundary



Settlement



Village/Town



Status of Shoreline Change due to Erosion / Accretion Thrissur District - Kerala coast

SHEET NO. 30

INDEX NO. 34,35



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	This is an accreting coastline varying from Medium to Low accretion almost the entire stretch excepting the northern part of the coast.
Low Accretion	
STABLE ZONES	
Stable Coast	W of Putiyandi
Artificial Coast (Eroding Coast)	N of Putiyandi
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



Landsat TM, 2000

High Accretion	Seawall	Port
Medium Accretion	Groynes	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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Creek



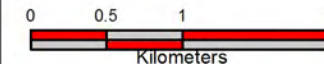
River



District Boundary

Settlement

Village/Town



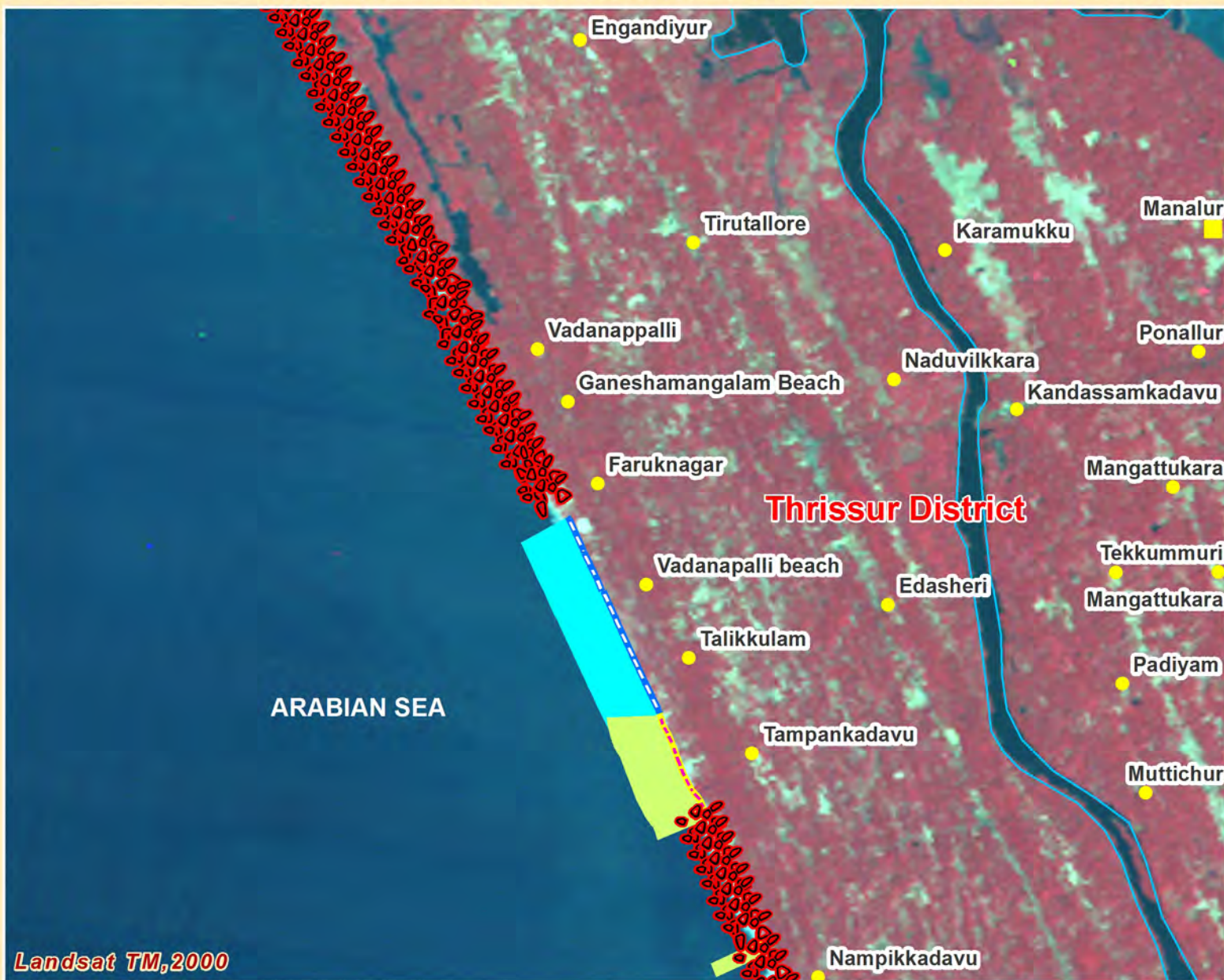
Status of Shoreline Change due to Erosion / Accretion Thrissur District - Kerala coast

SHEET NO. 31

INDEX NO. 35,36,37



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	S and N of Tampankadavu
STABLE ZONES	
Stable Coast	SW of Tampankadavu upto SW of Faruknagar
Artificial Coast (Eroding Coast)	i) a small stretch in the south extending from W of nampikkadavu to SW of Tampankadavu and ii) W of Faruknagar to W of Engandiyur
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



Landsat TM, 2000

	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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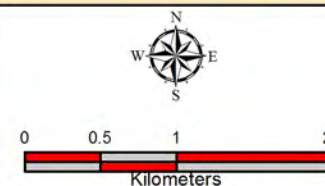


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वहाँ से खुशहाली है

	Creek
	River
	District Boundary
	Settlement
	Village/Town



Status of Shoreline Change due to Erosion / Accretion Thrissur District - Kerala coast

SHEET NO. 32

INDEX NO. 37,38



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	SW of Chavakkad
STABLE ZONES	
Stable Coast	SW of Chavakkad
Artificial Coast (Eroding Coast)	90% of this coastline- extending from Engandiyur upto SW of Chavakkad
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



High Accretion	Seawall	Port
Medium Accretion	Groynes	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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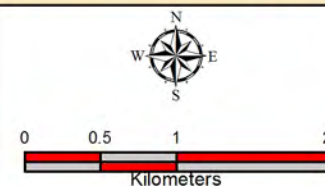


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वहाँ से खुशहाली है।

Creek
River
District Boundary
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Village/Town



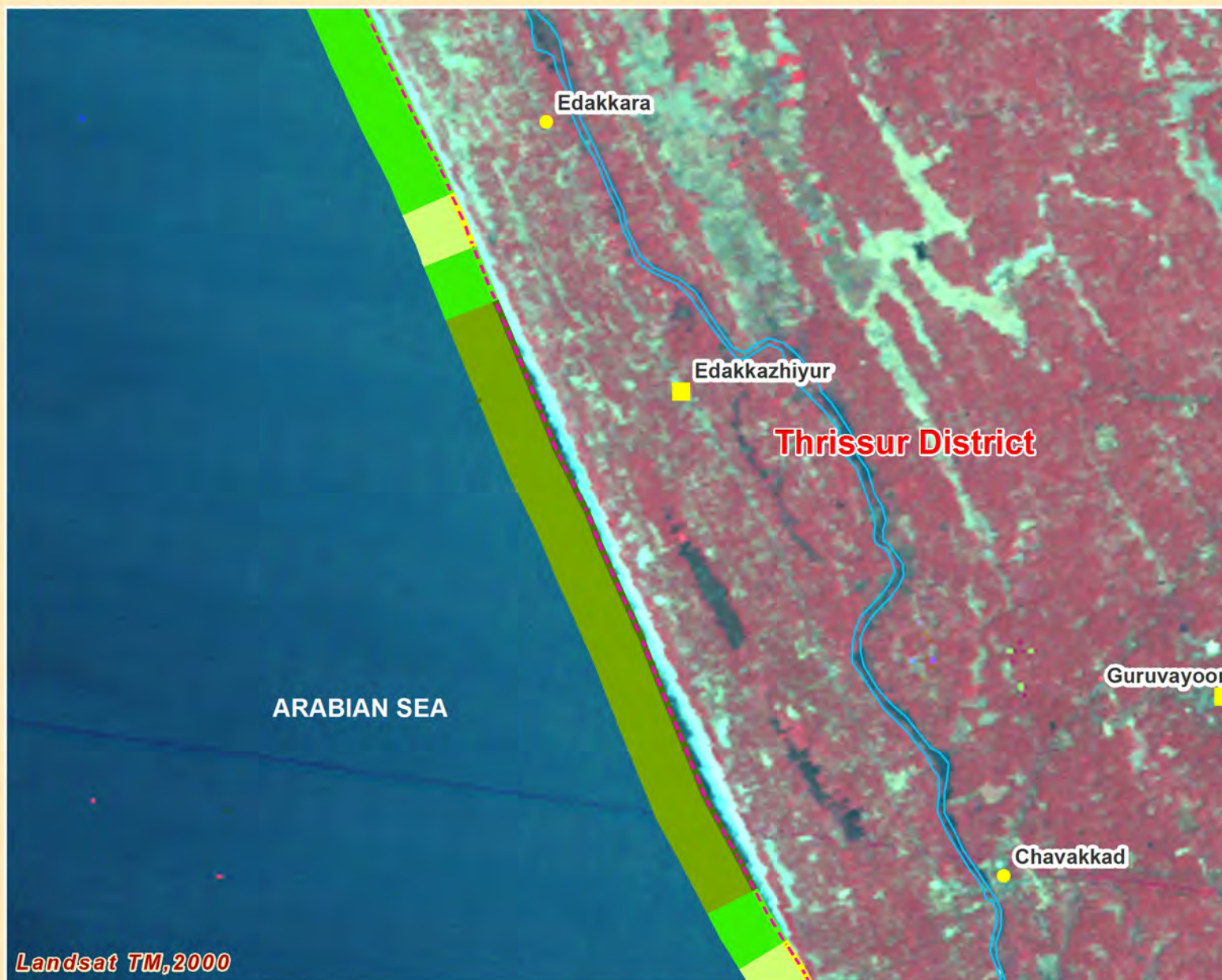
Status of Shoreline Change due to Erosion / Accretion Thrissur District - Kerala coast

SHEET NO. 33

INDEX NO. 38



ACCRETION ZONES	Location
High Accretion	This is an accreting coastal stretch: both South and North of Edakkazhiyur
Medium Accretion	
Low Accretion	
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	Nil
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



High Accretion	Seawall	Port
Medium Accretion	Groynes	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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Creek



River



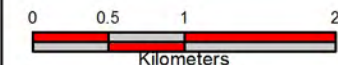
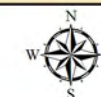
District Boundary



Settlement



Village/Town



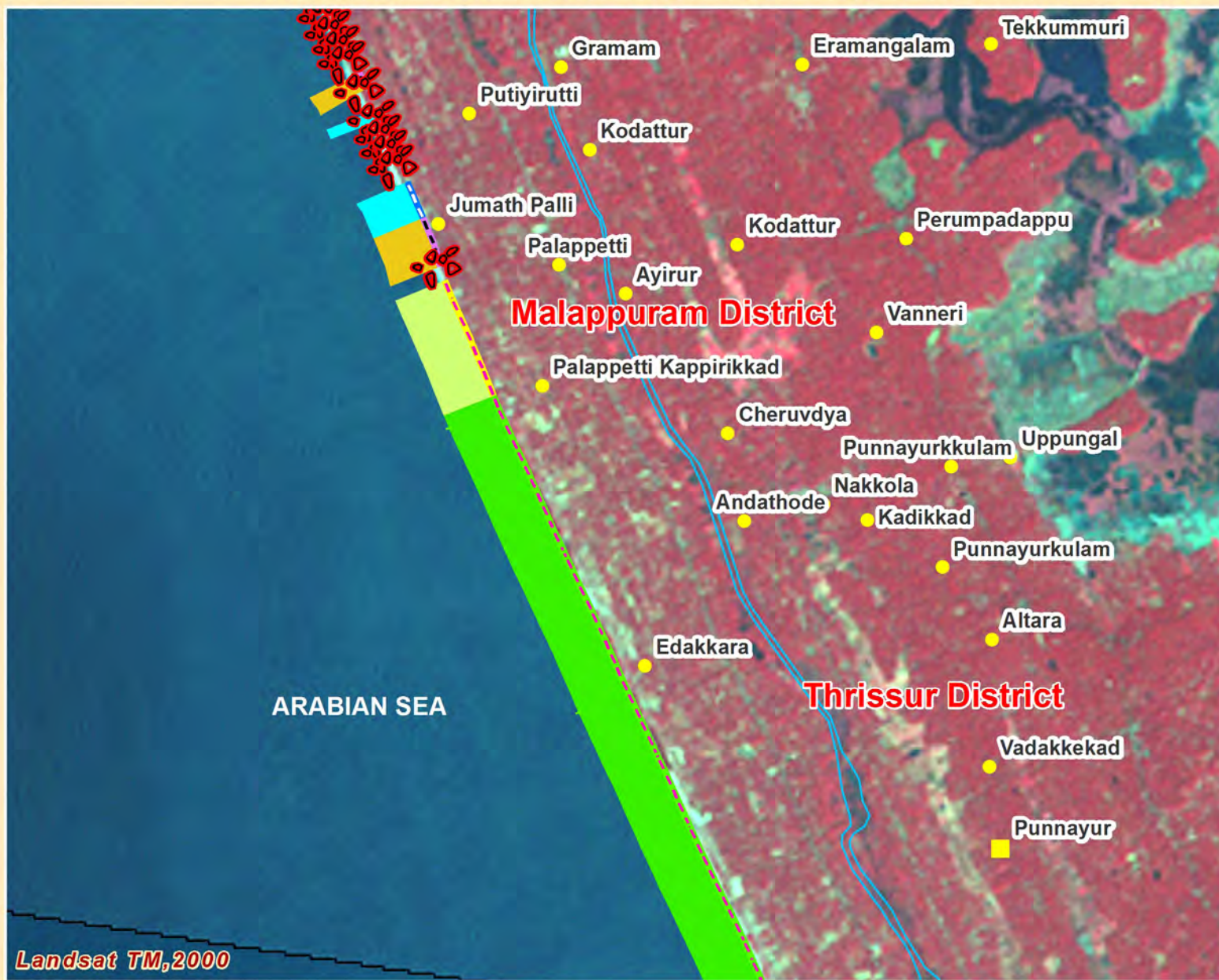
Status of Shoreline Change due to Erosion / Accretion Malappuram/Thrissur Districts - Kerala coast

SHEET NO. 34

INDEX NO. 39,40



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	SW of Edakkara to SW of Palapetti Kappirkkad
Low Accretion	W of Palapetti Kappirkkad to W of Palapetti
STABLE ZONES	
Stable Coast	i) W of Jumath Palli, ii) W of Putiyirutti
Artificial Coast (Eroding Coast)	Small stretches i) SW and ii) NW of Putiyirutti
EROSION ZONES	
Low Erosion	i) S of Jumath Palli and ii) NW of Putiyirutti
Medium Erosion	Nil
High Erosion	Nil



Landsat TM, 2000

	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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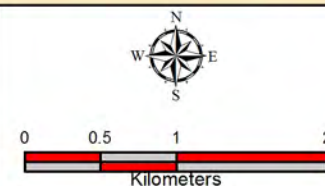


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	Creek
	River
	District Boundary
	Settlement
	Village/Town



Status of Shoreline Change due to Erosion / Accretion Malappuram District - Kerala coast

SHEET NO. 35

INDEX NO. 40,41



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	South of Kanjiramukku Puzha mouth
STABLE ZONES	
Stable Coast	W of Putiya Ponnai
Artificial Coast (Eroding Coast)	>75% of the coast consisting of three stretches: i) S of Kanjiramukku Puzha mouth upto W of Kadavanad and iii) NW of Putiya Ponnai upto W of Ponnani. There are breakwaters constructed at Ponnani River mouth
EROSION ZONES	
Low Erosion	S of Ponnani River mouth breakwaters
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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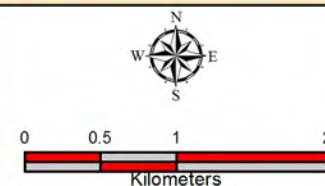


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	Creek
	River
	District Boundary
	Settlement
	Village/Town



Status of Shoreline Change due to Erosion / Accretion Malappuram District - Kerala coast

SHEET NO. 36

INDEX NO. 41,42



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	W of Pulluni
Low Accretion	Four stretches along this coast; i) N of Ponnani river mouth
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	~50% of the coast, dominant from South to central part of this coast from Chukkimid Island upto Perumtirutti and also present SW
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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Creek



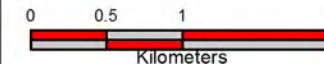
River



District Boundary

Settlement

Village/Town



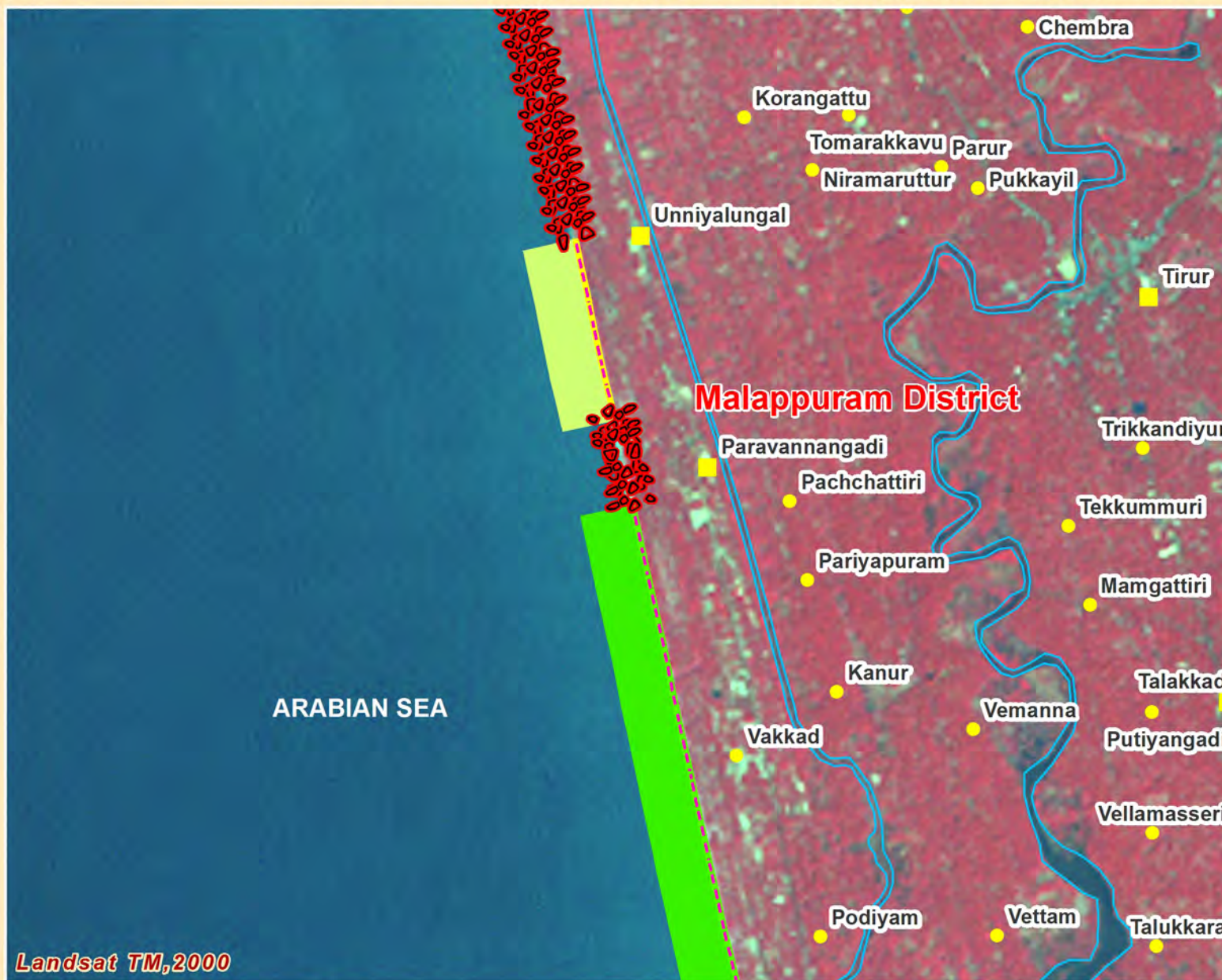
Status of Shoreline Change due to Erosion / Accretion Malappuram District - Kerala coast

SHEET NO. 37

INDEX NO. 42,43



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Dominates the southern part of this coast: extending from SW of Podiyam upto SW of Pachchattiri
Low Accretion	SW of Unniyalungal
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	Between Pachchattiri and NW of Paravannangadi and W of Unniyalungal upto NW of Korangattu
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



Landsat TM, 2000

	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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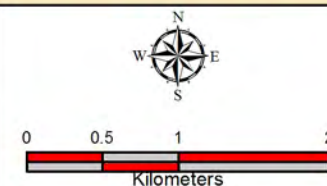


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जहाँ से हरियाली है
वहाँ से खुशहाली है

	Creek
	River
	District Boundary
	Settlement
	Village/Town



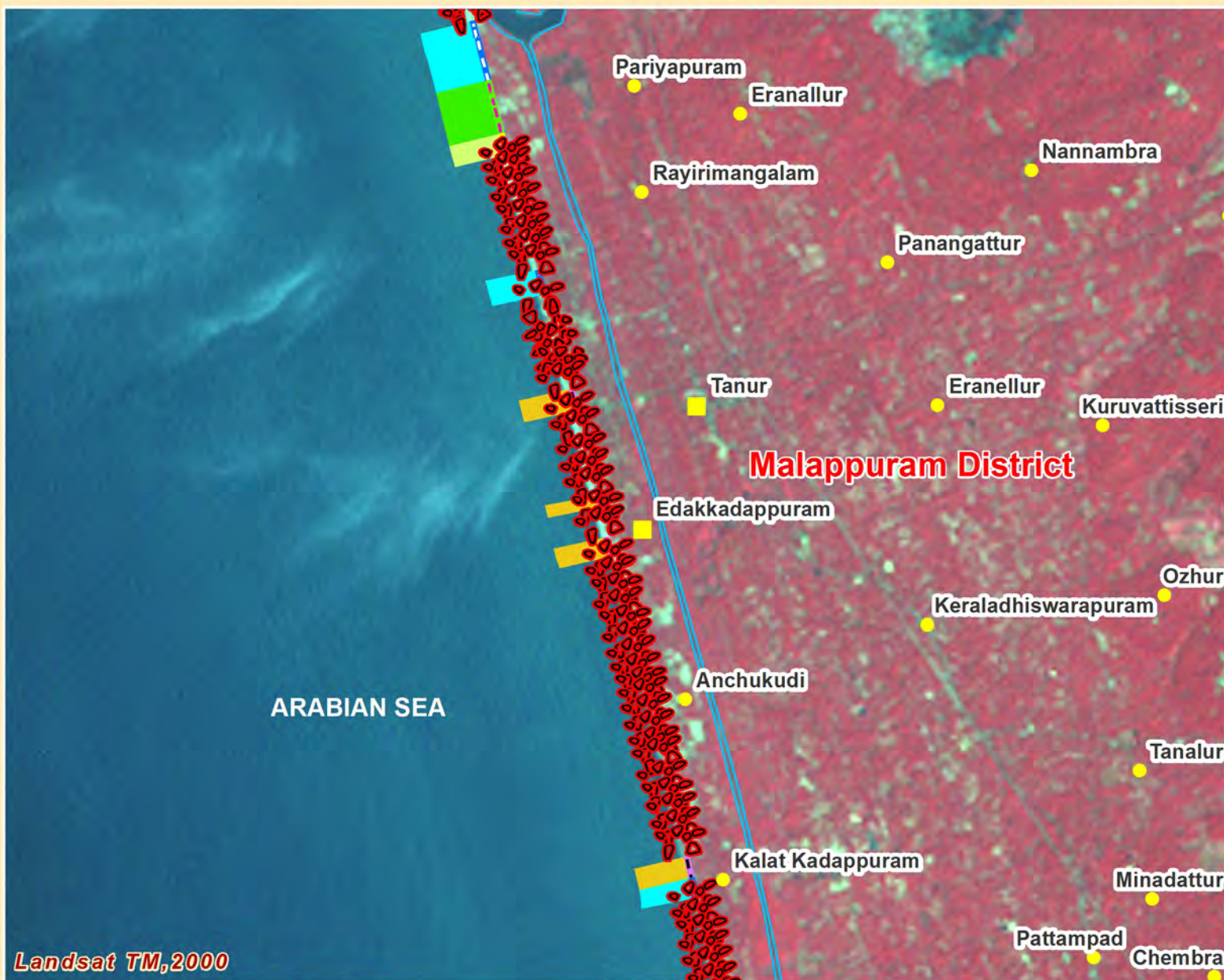
Status of Shoreline Change due to Erosion / Accretion Malappuram District - Kerala coast

SHEET NO. 38

INDEX NO. 43,44



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Small stretch at W of Pariyapuram
Low Accretion	SW of Pariyapuram
STABLE ZONES	
Stable Coast	Two short stretches: i) W and SW of Pariapuram ii) W of Kalat Kadappuram
Artificial Coast (Eroding Coast)	Throughout the coast extending from Kalat Kadappuram to Rayirimangalam
EROSION ZONES	
Low Erosion	Three small stretches i) W of Kalat Kadappuram ii)W of Eadakkadappuram iii)W of Tanur
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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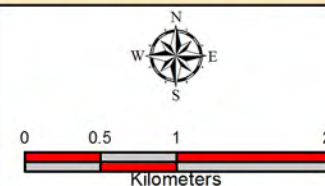


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	Creek
	River
	District Boundary
	Settlement
	Village/Town



Status of Shoreline Change due to Erosion / Accretion Malappuram District - Kerala coast

SHEET NO. 39

INDEX NO. 44,45



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	North of Purapparamba river mouth
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	>90% of this coast: i) S of Purapparamba river mouth, ii) N of Purapparamba river mouth upto NW of Parappanangadi, iii) S and N of Neduva village and iv) SW of Ariyallur
EROSION ZONES	
Low Erosion	Three stretches: i) NW of Purapparamba river mouth, ii) NW of Parappanangadi village and iii) NW of Neduva village
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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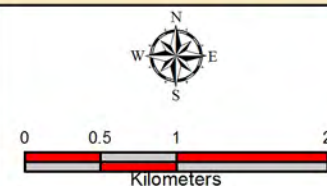


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	Creek
	River
	District Boundary
	Settlement
	Village/Town



Status of Shoreline Change due to Erosion / Accretion Malappuram District - Kerala coast

SHEET NO. 40

INDEX NO. 45,46



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	Nil
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	i) SW of Sriyallur, ii) Stretch between S and N of Kadalundi river mouth
EROSION ZONES	
Low Erosion	i) NW of Ariyallur and ii) SW of Vallikamu
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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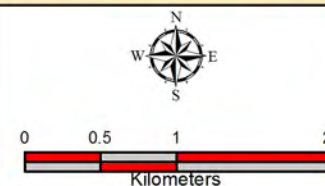


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	Creek
	River
	District Boundary
	Settlement
	Village/Town



Status of Shoreline Change due to Erosion / Accretion Kozhikode District - Kerala coast

SHEET NO. 41

INDEX NO. 46,47,48



ACCRETION ZONES	Location
High Accretion	S of Beypore river mouth
Medium Accretion	Nil
Low Accretion	S of Beypore river mouth
STABLE ZONES	
Stable Coast	N of Beypore
Artificial Coast (Eroding Coast)	Groyne fields are observed S of the Beypore river mouth W of Chakiyampuzha. Two breakwaters at the Beypore river mouth and from Naduvattam to W of Minchanda
EROSION ZONES	
Low Erosion	Five stretches along the coast: i) Two locations N of Beypore river mouth, ii) SW of naduvattam, iii) S and N of Panniankara
Medium Erosion	Nil
High Erosion	Nil



Landsat TM, 2000

	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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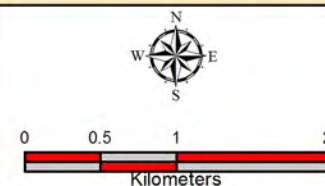


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	Creek
	River
	District Boundary
	Settlement
	Village/Town



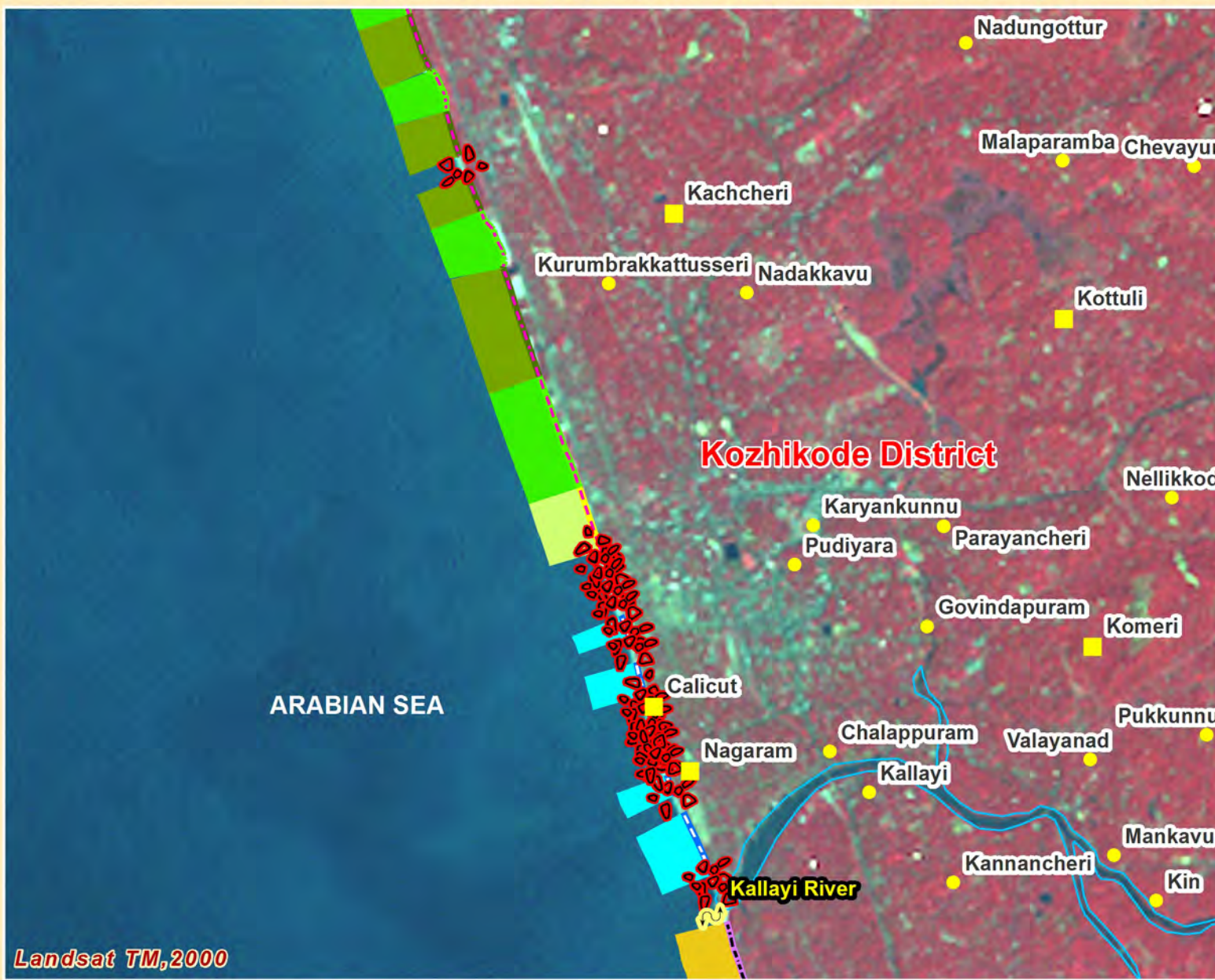
Status of Shoreline Change due to Erosion / Accretion Kozhikode District - Kerala coast

SHEET NO. 42

INDEX NO. 48,49



ACCRETION ZONES	Location
High Accretion	Dominates the northern part of the coastline. High accretion and medium accretion alternate with each other from W of Pudiyaara, which has low accretion
Medium Accretion	
Low Accretion	
STABLE ZONES	
Stable Coast	Dominates the southern part of the coast between a series of
Artificial Coast (Eroding Coast)	A series of groyne fields extending from N of Kallayi river mouth upto N of Calicut and
EROSION ZONES	
Low Erosion	S of Kallayi river mouth
Medium Erosion	Nil
High Erosion	Nil



High Accretion	Seawall	Port
Medium Accretion	Groynes	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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वहाँ से खुशहाली ॥

Creek
River
District Boundary
Settlement
Village/Town

0 0.5 1 2
Kilometers

Status of Shoreline Change due to Erosion / Accretion Kozhikode District - Kerala coast

SHEET NO. 43

INDEX NO. 49



ACCRETION ZONES	Location
High Accretion	S of Puthiyappa Fishing Harbour
Medium Accretion	Further S of Puthiyappa Fishing Harbour
Low Accretion	N of Puthiyappa Fishing Harbour (Rocky coast)
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	Predominant in the northern part of this coast- although extending from S of Talakolattur upto N of Korapuzha river mouth and further upto W of Vengalam
EROSION ZONES	
Low Erosion	A stretch South of Korapuzha river mouth
Medium Erosion	Nil
High Erosion	Nil



Landsat TM, 2000

	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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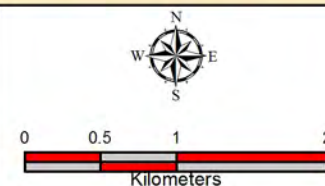


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	Creek
	River
	District Boundary
	Settlement
	Village/Town



Status of Shoreline Change due to Erosion / Accretion Kozhikode District - Kerala coast

SHEET NO. 44

INDEX NO. 49,50,51



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	i) W of Thiruvangur, ii) W and NW of Melur
STABLE ZONES	
Stable Coast	i) SW of Thiruvangur, ii) S of kadalur and iii) NW of Mangad
Artificial Coast (Eroding Coast)	Present intermittently all along the coast- extending from W of Kangannur upto N of Quilandi
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



Landsat TM, 2000

	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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Creek



River



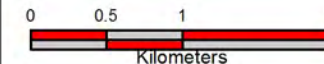
District Boundary



Settlement



Village/Town



Status of Shoreline Change due to Erosion / Accretion Kozhikode District - Kerala coast

SHEET NO. 45

INDEX NO. 51,52



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	i) S of Kollam, ii) NW of Mannamangalam
Low Accretion	i) N of Kollam, ii) SW of Vimangulam
STABLE ZONES	
Stable Coast	Short stretches N of Vellarakkad
Artificial Coast (Eroding Coast)	S and N of Kollam upto SW of Vimangulam
EROSION ZONES	
Low Erosion	SW of Vellarakkad
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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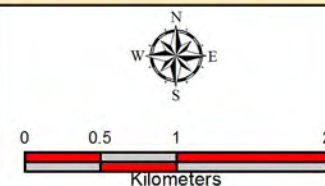


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जहाँ है हरियाली वहाँ है खुशहाली।

	Creek
	River
	District Boundary
	Settlement
	Village/Town



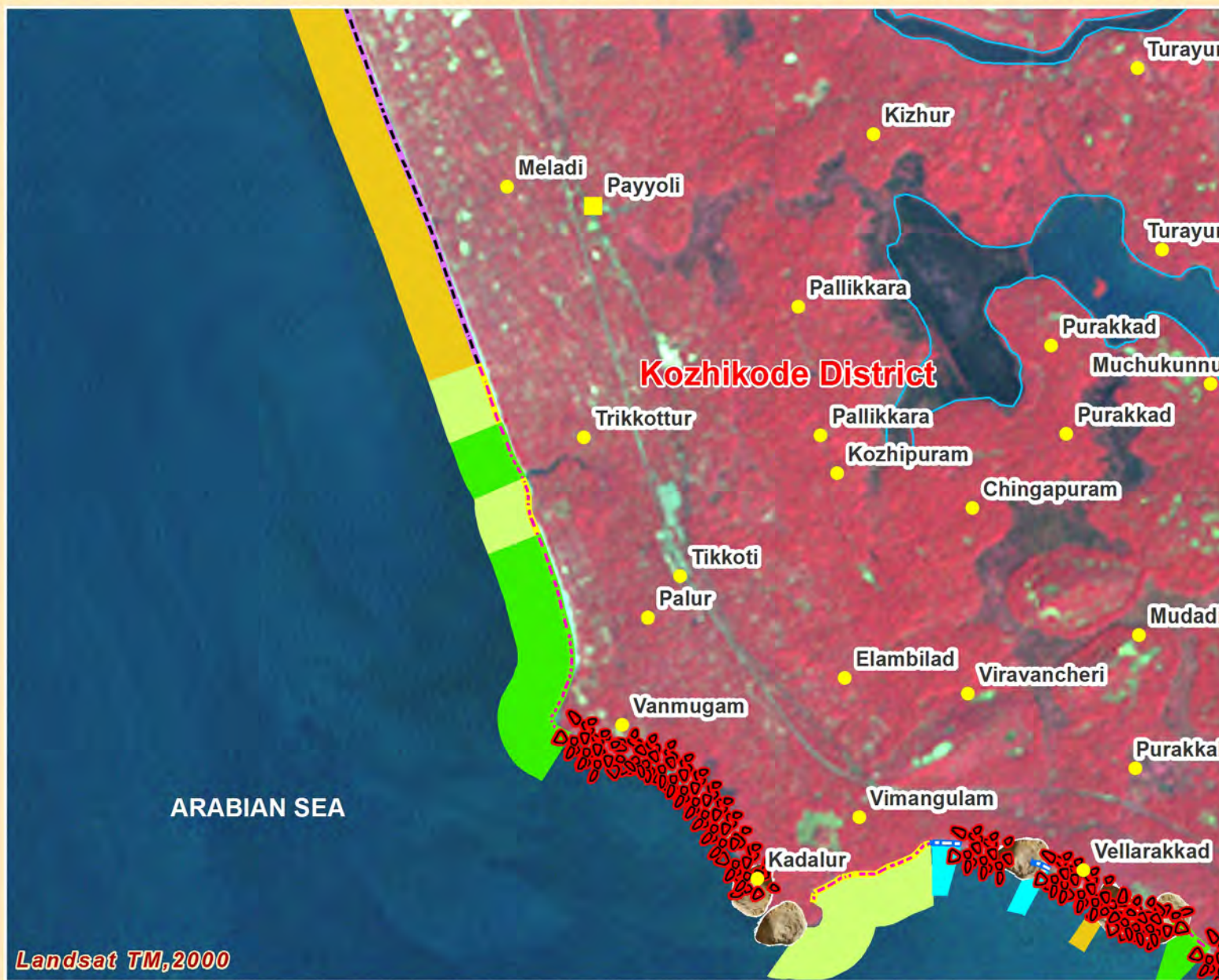
Status of Shoreline Change due to Erosion / Accretion Kozhikode District - Kerala coast

SHEET NO. 46

INDEX NO. 51,52,53



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	i) S of Vallarakkad, ii) N of Vanmugam upto NW of Tikkoti, iii) W of Trikkottur
Low Accretion	i) SW of Vimangulam (rocky coast) upto Kadalur, ii) S and N of Trikkottur
STABLE ZONES	
Stable Coast	S of Vimangulam
Artificial Coast (Eroding Coast)	From Kadalur upto NW of Vanmugam
EROSION ZONES	
Low Erosion	Dominates the northern part of the coast from N of trikkotur upto Puttur
Medium Erosion	Nil
High Erosion	Nil



Landsat TM, 2000

	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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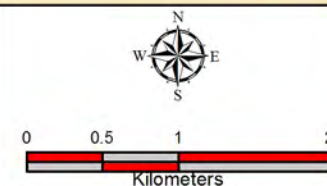


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	Creek
	River
	District Boundary
	Settlement
	Village/Town



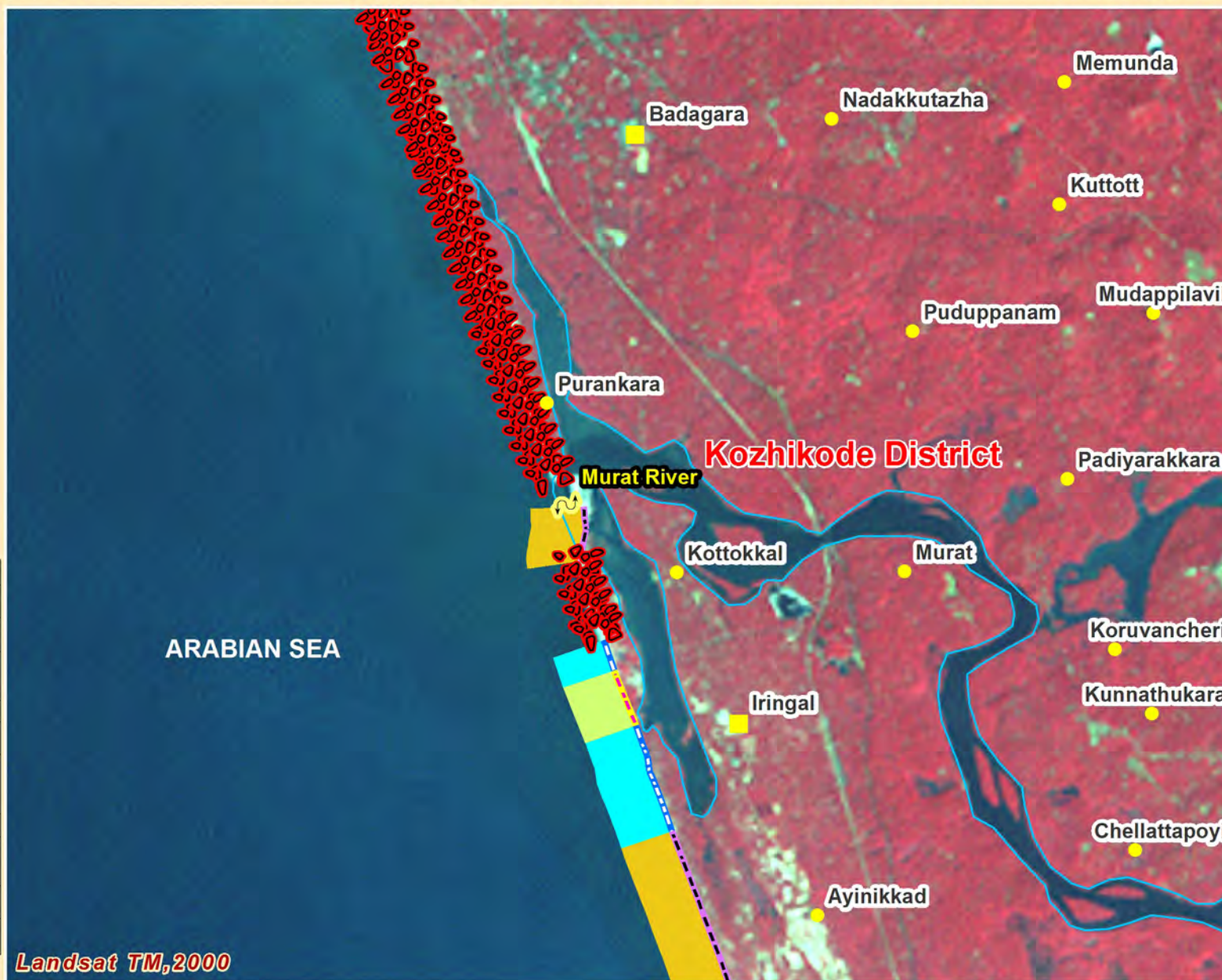
Status of Shoreline Change due to Erosion / Accretion Kozhikode District - Kerala coast

SHEET NO. 47

INDEX NO. 53,54



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	S of Murat river mouth between two stable coast stretches
STABLE ZONES	
Stable Coast	S of Murat river mouth and
Artificial Coast (Eroding Coast)	Dominates most of castline extending from N of Murat river mouth upto NW of Badagara village
EROSION ZONES	
Low Erosion	i) S and N of Ayinikkad and ii) immediate S of Murat river mouth
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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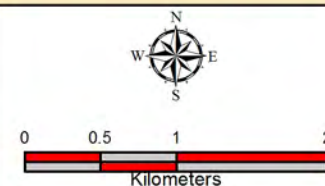


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	Creek
	River
	District Boundary
	Settlement
	Village/Town



Status of Shoreline Change due to Erosion / Accretion Kannur/Kozhikode District - Kerala coast

SHEET NO. 48

INDEX NO. 54,55



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	S of Vadakkara Fishing Harbour
Low Accretion	N and S of Vadakkara Fishing Harbour
STABLE ZONES	
Stable Coast	NW of Kannukara
Artificial Coast (Eroding Coast)	Entire coastline extending from SW of Puttur to NW of Chombal
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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ਬਰਾਂ ਦੇ ਕੁਰਾਣਾਲੀ ।।



Creek



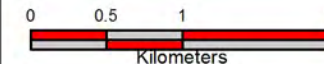
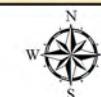
River



District Boundary

Settlement

Village/Town



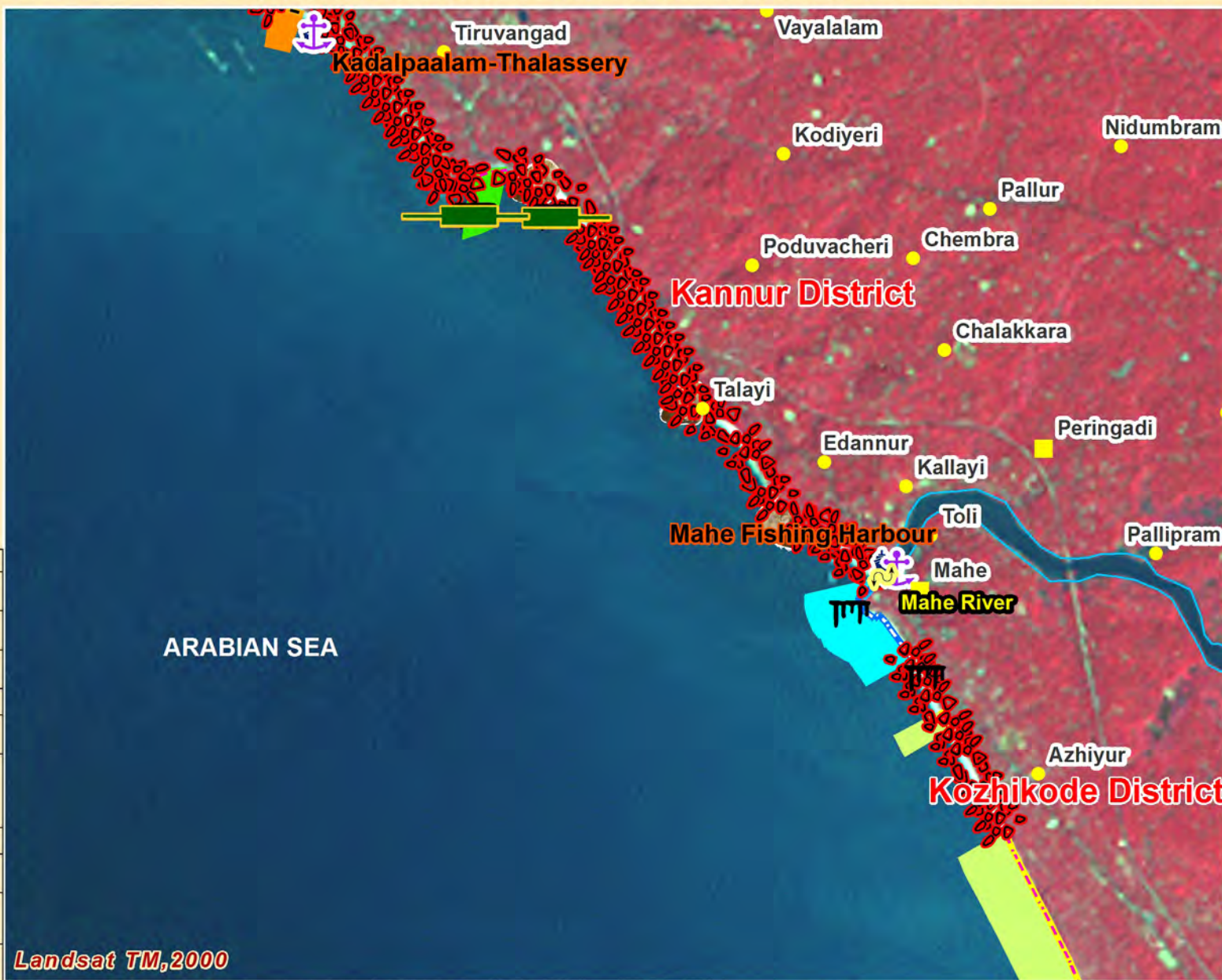
Status of Shoreline Change due to Erosion / Accretion Kannur/Kozhikode District - Kerala coast

SHEET NO. 49

INDEX NO. 55,56,57



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	S and N of Azhiyur
STABLE ZONES	
Stable Coast	S and N of Mahe river mouth
Artificial Coast (Eroding Coast)	Present all along this coast from SW of Kallamala in the south to NW of Thiruvangad
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	At Kadalpallam Thalassery Harbour
High Erosion	Nil



Landsat TM, 2000

	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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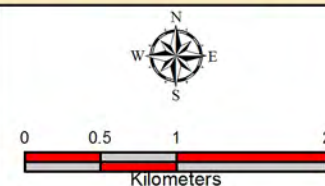


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	Creek
	River
	District Boundary
	Settlement
	Village/Town



Status of Shoreline Change due to Erosion / Accretion Kannur District - Kerala coast

SHEET NO. 50

INDEX NO. 57



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Medium accretion dominates the northern part of this coastline extending from further N of Anjarakandi Puzha river mouth upto NW of Chirakkutazha
Low Accretion	SW of Chirakkutazha
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	i) Extends from Thalassery in the South to N of Anjarakandi Puzha river mouth, ii) W of Mazhappilangad and iii) at Chirakkutazha
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



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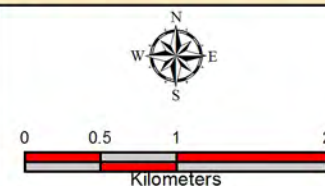
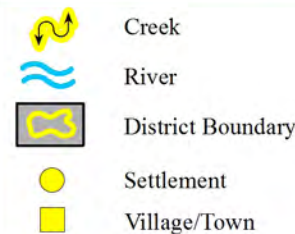
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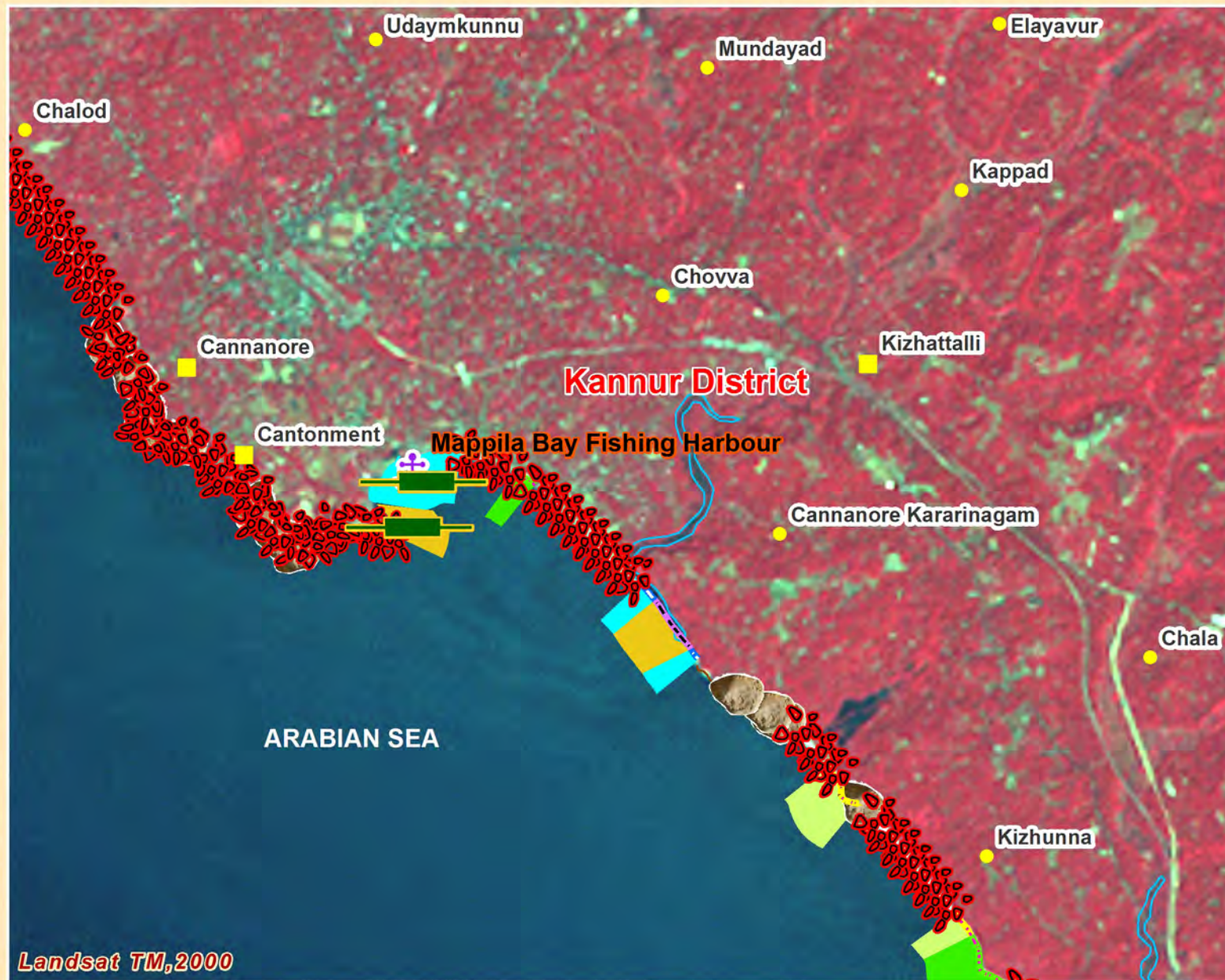
Status of Shoreline Change due to Erosion / Accretion Kannur District - Kerala coast

SHEET NO. 51

INDEX NO.58



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Two stretches: i) S of Kizhunna and ii) S of Mappila Bay Fishing Harbour
Low Accretion	Two stretches: i) S of Kizhunna and ii) N of Kizhunna
STABLE ZONES	
Stable Coast	Two stretches S of Cannanore Kararinagam
Artificial Coast (Eroding Coast)	Six stretches along this coast: i) W of Kizhunna, ii) N of Kizhunna, S of Mappila Bay Fishing Harbour, iv) N of Mappila Bay Fishing Harbour, v) W of Cantonment and vi) SW of Chalod
EROSION ZONES	
Low Erosion	W of Cannanore Kararinagam
Medium Erosion	SW of Cannanore Kararinagam (rocky coast)
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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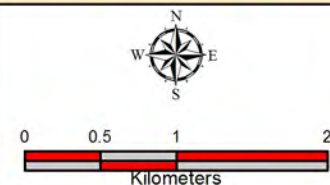


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ਬਰੀ ਫੇ ਲੁਗਯਾਲੀ ।।

	Creek
	River
	District Boundary
	Settlement
	Village/Town



Status of Shoreline Change due to Erosion / Accretion Kannur District - Kerala coast

SHEET NO. 52

INDEX NO. 58,59



ACCRETION ZONES	Location
High Accretion	i) S of Azhikka Port and ii) N of Talipparamba River mouth
Medium Accretion	N of Azhikkod
Low Accretion	Nil
STABLE ZONES	
Stable Coast	W of Chirakkal
Artificial Coast (Eroding Coast)	Dominates the southern part of the coast extending from SW of Chalod upto SW of Azhikkod
EROSION ZONES	
Low Erosion	SW of Azhikkod (rocky coast)
Medium Erosion	W of Azhikkod (rocky coast)
High Erosion	Nil



High Accretion	Seawall	Port
Medium Accretion	Groynes	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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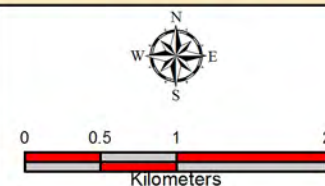


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Creek
River
District Boundary
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Village/Town



Status of Shoreline Change due to Erosion / Accretion Kannur District - Kerala coast

SHEET NO. 53

INDEX NO. 59,61,62



ACCRETION ZONES	Location
High Accretion	N of Talipparamba River mouth
Medium Accretion	Two stretches: i) NW of Mattul and ii) W of Puthiyangadi
Low Accretion	NW of Puthiyangadi
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	Covers the entire coastline: extending from SW of Mattul to W of Palayangadi
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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Creek



River



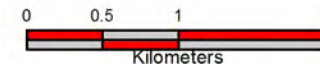
District Boundary



Settlement



Village/Town



Status of Shoreline Change due to Erosion / Accretion Kasaragod/Kannur District - Kerala coast

SHEET NO. 53A

INDEX NO. 59,60,61,62



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	S of Puthiyangadi
Low Accretion	W of Palakkad, W and SW of Ramantali
STABLE ZONES	
Stable Coast	Two short stretches: i) SW of Ramantali ii) W and SE of Ettikkulam
Artificial Coast (Eroding Coast)	Two stretches i) S of Puthiyangadi ii) E of Kotte Kunnu
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	At Kotte Kunnu
High Erosion	Nil



Landsat TM - 2000

	High Accretion		Seawall		Port
	Medium Accretion		Groynes		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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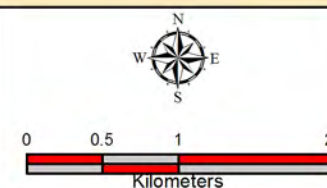


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	Creek
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	District Boundary
	Settlement
	Village/Town



Status of Shoreline Change due to Erosion / Accretion Kasaragod/Kannur District - Kerala coast

SHEET NO. 54

INDEX NO. 62



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	small stretch at W of Trikarpur Thekkekadapuram
Low Accretion	W and SW of Kavvayi Backwaters
STABLE ZONES	
Stable Coast	SW of Ramantali
Artificial Coast (Eroding Coast)	Two stretches: i) S and SW of Tail Kadparam ii) SW of Trikarpur Thekkekadapuram
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



High Accretion	Seawall	Port
Medium Accretion	Groynes	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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Creek



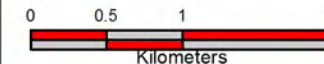
River



District Boundary

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Status of Shoreline Change due to Erosion / Accretion Kasaragod/Kannur District - Kerala coast

SHEET NO. 55

INDEX NO. 62,63,64



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	SW of Udenuru
Low Accretion	NW of Udenuru upto NW of Padne Kadparam
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	i) SW of Madakal, ii) NW of Madakal, iii) W of Udenuru Kadparam
EROSION ZONES	
Low Erosion	i) SW of Udenuru Kadparam, ii) W of Madakal
Medium Erosion	Nil
High Erosion	Nil



High Accretion	Seawall	Port
Medium Accretion	Groynes	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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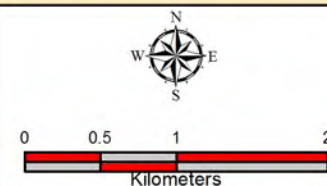


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Creek
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Status of Shoreline Change due to Erosion / Accretion Kasaragod District - Kerala coast

SHEET NO. 56

INDEX NO. 64,65



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	Three stretches along the southern part of the coast: i) S and N of Badkekad, ii) S of Thurti Pane River mouth, iii) N of Thurti Pane River mouth
STABLE ZONES	
Stable Coast	W of Pantekai
Artificial Coast (Eroding Coast)	Four stretches of the coast-predominantly in the northern part-extending from N of Thurti Pane upto W of Nileswaram
EROSION ZONES	
Low Erosion	Short stretches between the ripraps on the northern part of the coast
Medium Erosion	Nil
High Erosion	Nil



Landsat TM, 2000

High Accretion	Seawall	Port
Medium Accretion	Groyne	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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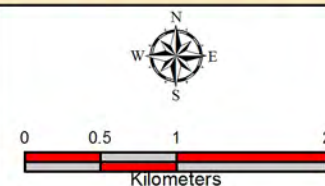


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வளம் உருவாகும்

Creek
River
District Boundary
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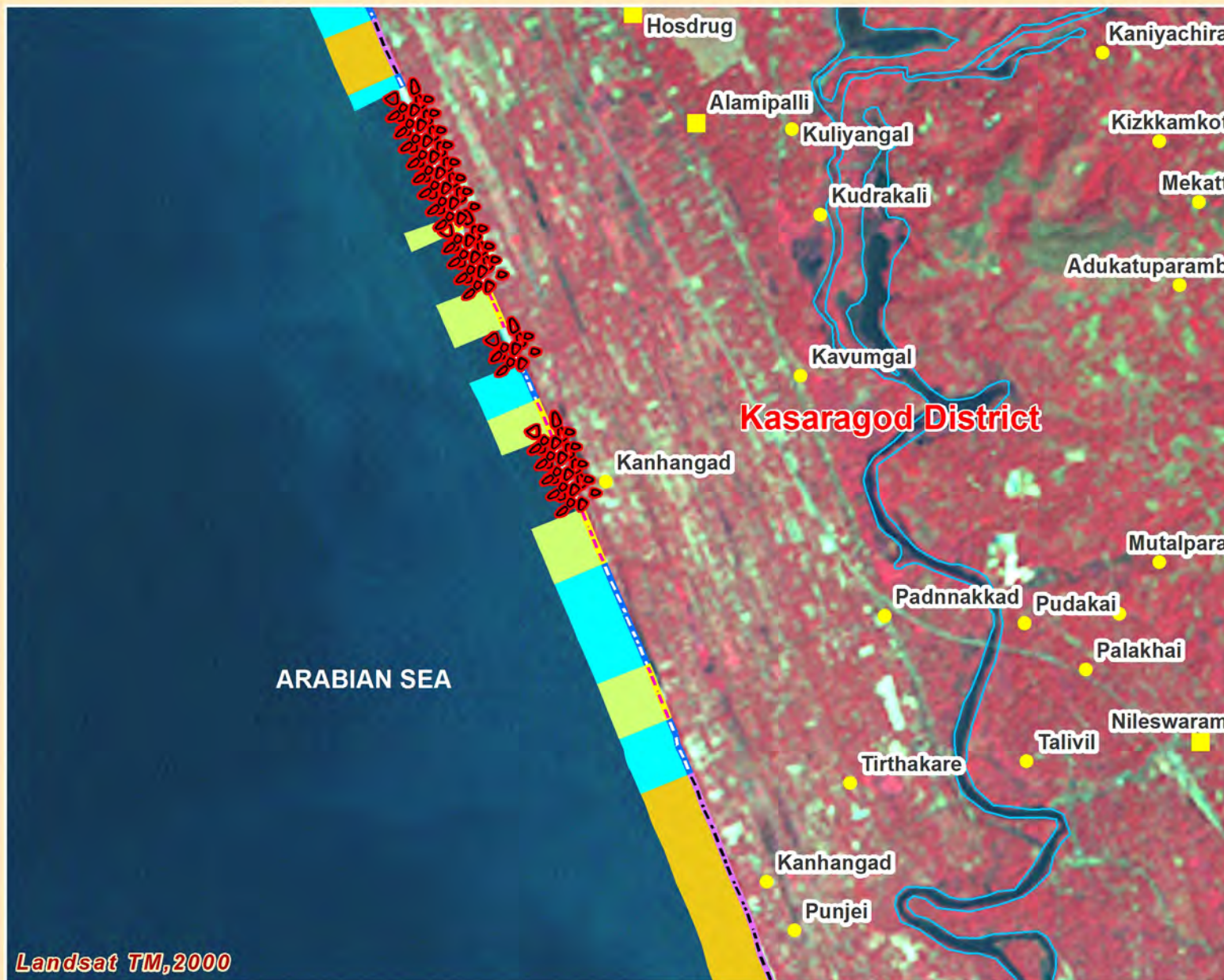
Status of Shoreline Change due to Erosion / Accretion Kasaragod District - Kerala coast

SHEET NO. 57

INDEX NO. 65,66



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	Five stretches S and N of Kanhangad
STABLE ZONES	
Stable Coast	Four stretches: i) NW of Tirthakare, ii) NW of Padnnakkad, iii) NW of Kanhangad and iv) SW of Hosdrug
Artificial Coast (Eroding Coast)	Four stretches: i) W of Kanhangad, ii) NW of Kanhangad, iii) W of Kudrakali and iv) W of Alamipalli
EROSION ZONES	
Low Erosion	Two stretches: i) W and NW of Punjei upto W of Tirthakare and ii) W of Hosdrug
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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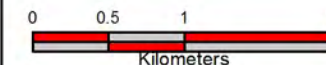
River



District Boundary

Settlement

Village/Town



Status of Shoreline Change due to Erosion / Accretion Kasaragod District - Kerala coast

SHEET NO. 58

INDEX NO. 66,67,68



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Two stretches: i) NW of Muttuntale and ii) W of Kikana
Low Accretion	W of Adyal
STABLE ZONES	
Stable Coast	SW of Adyal
Artificial Coast (Eroding Coast)	i) N of Adyal upto SW of Ajanur and ii) two stretches N of Chittari Hole river mouth
EROSION ZONES	
Low Erosion	i) S and N of Chittari Hole River mouth and ii) W of Chittari
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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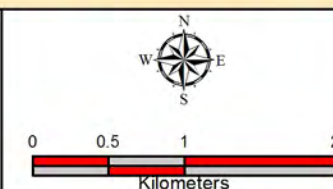


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	Creek
	River
	District Boundary
	Settlement
	Village/Town



Status of Shoreline Change due to Erosion / Accretion Kasaragod District - Kerala coast

SHEET NO. 59

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ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	i) SW of Agasarahola, ii) W of Kottikulam
Low Accretion	S of Kappil beach
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	i) N of Agasarahola and ii) N of Bekhal hole river mouth and W of Bekal iii) W of Kalanadu
EROSION ZONES	
Low Erosion	N of Kappil Beach
Medium Erosion	Nil
High Erosion	Nil

High Accretion	Seawall	Port
Medium Accretion	Groynes	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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Creek



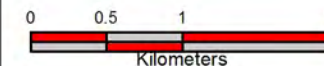
River



District Boundary

Settlement

Village/Town



Status of Shoreline Change due to Erosion / Accretion Kasaragod District - Kerala coast

SHEET NO. 60

INDEX NO.68,69,70



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	Nil
Low Accretion	Two stretches: i) W of Kasaragod, ii) NW of Kudlu
STABLE ZONES	
Stable Coast	Nil
Artificial Coast (Eroding Coast)	i) S and N of Kalnad, ii) a long stretch N of Kasaragod upto SW of Kudlu
EROSION ZONES	
Low Erosion	S of Chandragiri River mouth
Medium Erosion	Nil
High Erosion	Nil

High Accretion	Seawall	Port
Medium Accretion	Groyne	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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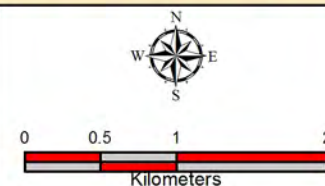


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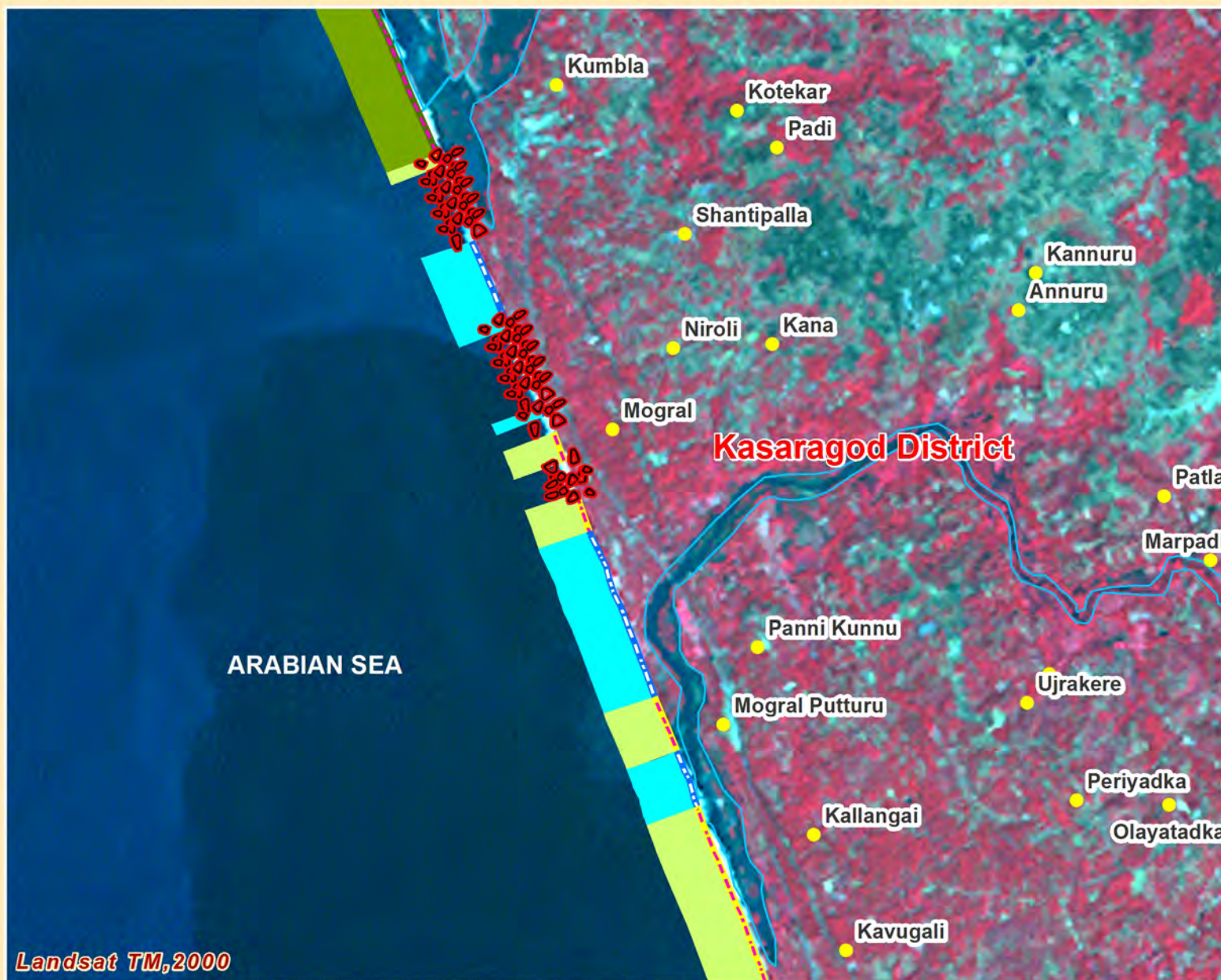
Status of Shoreline Change due to Erosion / Accretion Kasaragod District - Kerala coast

SHEET NO.61

INDEX NO. 70,71



ACCRETION ZONES	Location
High Accretion	NW of Kumbala
Medium Accretion	Nil
Low Accretion	Five stretches: i) W of Kavugali, ii) W of Mogral Putturu, iii) SW of Mogral, iv) W of Mogral and v) SW of Kumbala
STABLE ZONES	
Stable Coast	Four stretches: i) SW of Mogral Putturu, ii) W of Panni Kunnu, iii) NW of Mogral and iv) W of Shantipalla
Artificial Coast (Eroding Coast)	i) S and N of Mogral and ii) NW of Shantipalla
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



Landsat TM, 2000

High Accretion	Seawall	Port
Medium Accretion	Groynes	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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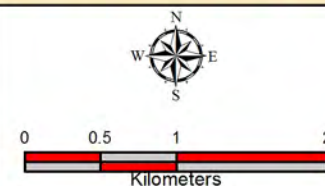


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Status of Shoreline Change due to Erosion / Accretion Kasaragod District - Kerala coast

SHEET NO. 62

INDEX NO. 71,72



ACCRETION ZONES	Location
High Accretion	S and N of Arikadi
Medium Accretion	Nil
Low Accretion	Nil
STABLE ZONES	
Stable Coast	Three stretches: i) Two locations SW of Shiriya Village, ii) S and N of Mangalapadi upto W of Kodibail
Artificial Coast (Eroding Coast)	Three short stretches: i) SW of Shiriya village and ii) SW of Mangalapadi
EROSION ZONES	
Low Erosion	Three stretches: i) Two locations NW of Arikadi and ii) S and N of Shiriya village
Medium Erosion	Nil
High Erosion	Nil



	High Accretion		Seawall		Port
	Medium Accretion		Groyne		Jetty
	Low Accretion		Rocky Coast		Breakwater
	Stable Coast		Fish landing Centre		
	Low Erosion				
	Medium Erosion				
	High Erosion				
	Artificial Coast (Eroding coast)				

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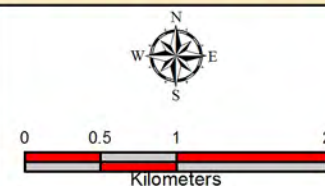


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SHEET NO. 63

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ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	W of Udiyavara and W of Hosabettu
Low Accretion	Three stretches: i) NW of Uppala, ii) W of Majibailu and iii) at Manjeshwar
STABLE ZONES	
Stable Coast	Two stretches: i) W of Uppala and ii) SW of Majibailu
Artificial Coast (Eroding Coast)	W of Mulinja
EROSION ZONES	
Low Erosion	SW and NW of Mulinja
Medium Erosion	Nil
High Erosion	Nil



Landsat TM, 2000

High Accretion	Seawall	Port
Medium Accretion	Groynes	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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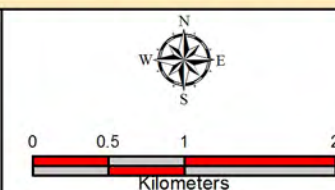


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Status of Shoreline Change due to Erosion / Accretion Kasaragod District - Kerala coast

SHEET NO. 64

INDEX NO. 72



ACCRETION ZONES	Location
High Accretion	Nil
Medium Accretion	NW of Udiyavara to SW of Kunjatturu
Low Accretion	Three stretches: i) NW of Uppala, ii) W of Majibailu and iii) at Manjeshwar
STABLE ZONES	
Stable Coast	i) W of Uppala, ii) W of Majibailu, iii) SW of Manjeshwar
Artificial Coast (Eroding Coast)	Nil
EROSION ZONES	
Low Erosion	Nil
Medium Erosion	Nil
High Erosion	Nil



High Accretion	Seawall	Port
Medium Accretion	Groynes	Jetty
Low Accretion	Rocky Coast	Breakwater
Stable Coast	Fish landing Centre	
Low Erosion		
Medium Erosion		
High Erosion		
Artificial Coast (Eroding coast)		

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