

CASMB ENVIS

Estuaries, Mangroves, Coral Reefs & Lagoons

**Major achievements of CASMB ENVIS Centre
(2011-2016)**

Annamalai University

Centre of Advanced Study in Marine Biology



Publications

1. Newsletters

1. Seshaiyana –Vol. 19 (1-4) – 2011-2012
2. Seshaiyana –Vol. 20 (1-4) – 2012-2013
3. Seshaiyana –Vol. 21 (1-4) – 2013-2014
4. Seshaiyana –Vol. 22 (1-4) – 2014-2015
5. Seshaiyana – Vol. 23(1-4) – 2015-2016

Total - 20 issues

2. Special publications

- 1. Sea Snakes of the Coromandel Coast of India – 2011**
- 2. Bibliography on Indian Estuaries (2006-2010) – 2011**
- 3. Coastal Ecosystems of India – Special publication – 2013**
- 4. A Catalogue of Estuarine Molluscs in India - 2014**
- 5. Mangrovekadukal (Tamil –booklet) - 2015**
- 6. Lagoons of India (Status report 2000-2010) - 2015**
- 7. Mangroves (English –booklet) -2016**
- 8. Lagoon Ecosystems of India – 2016**

Recent breakthrough in mangrove publication

Among the top 10 highly cited authors and cited papers in world mangrove research, the following two articles are from India, that too from the Centre of Advanced Study in Marine Biology.

1. Kathiresan, K. and B.L. Bingham, 2001. Biology of mangroves and mangrove ecosystems. *Advances in Marine Biology*, 40: 81—251; DOI 10.1016/S0065-288(01) 40003-4.
2. Kathiresan, K. and N. Rajendran, 2005. Coastal mangrove forests mitigated tsunami. *Estuarine and Coastal Shelf Science*, 65: 601—606; DOI 10.1016/j.ecss.2005.06.022.

SCOPUS

India is topping in terms of publication & citations in the field of mangroves

Our centre has significantly contributed

Cyberoam x need scopus details for Kk x Scopus - Document search x

www.scopus.com/results/results.url?sort=plf-f&src=s&st1=mangrove&sid=95DF41

SciVerse Scopus Hub | ScienceDirect | Scopus | Applications

Search | Sources | Analytics | Alerts | My list | Settings

Quick Search mangrove Search

Your query: TITLE-ABS-KEY-AUTH(mangrove)

Edit | Save | Set alert | Set feed

View secondary documents | Go to results: 245477 Web | 853 Patent

10,657 document results | Analyze results | Show all abstracts

Search within results

Refine results

Year

<input type="checkbox"/> 2013	(266) >
<input type="checkbox"/> 2012	(925) >
<input type="checkbox"/> 2011	(817) >
<input type="checkbox"/> 2010	(734) >
<input type="checkbox"/> 2009	(662) >

View more

Author Name

<input type="checkbox"/> Kathiresan, K.	(76) >
<input type="checkbox"/> Koedam, N.	(69) >
<input type="checkbox"/> Dahdouh-Guebas, F.	(67) >
<input type="checkbox"/> Tam, N.F.Y.	(62) >
<input type="checkbox"/> Alongi, D.M.	(55) >

View more

Subject Area

Document title

- Vertical migration by Cerithidea decollata (Mollusca, Potamididae): Addi subtraction
View at Publisher | Show abstract | Related documents
- Degradation potential and microbial community structure of heavy oil-en consortia from mangrove sediments in Okinawa, Japan
View at Publisher | Show abstract | Related documents
- Locating suitable mangrove plantation sites along the Saudi Arabia Red
View at Publisher | Show abstract | Related documents
- A study of the characteristics of aeolian sand activity and the effects of a windbreak system in a coastal dune area in southern China
View at Publisher | Show abstract | Related documents
- The relationship of spatial-temporal changes in fringe mangrove extent use: Case study of Kien Giang coast, Vietnam
View at Publisher | Show abstract | Related documents
- Sediment accretion and organic carbon burial relative to sea-level rise

Visitors and Users (online and physical)

	Website users and visitors	Physical users and visitors	Total users
2011-2012	5645	1415	7060
2012-2013	2352	351	2703
2013-2014	20378	1867	22245
2014-2015	203285	1130	204415
2015-2016	238395	578	238973
Total	4,70,055	5,154	4,75,396

Created "Researchgate" and facebook accounts for CASMB ENVIS Centre (2014-2015)

The screenshot shows the ResearchGate profile for the Environmental Information System Centre - CASMB. The profile includes a logo with the text "Environmental Information System ENVIS" and a globe. The name "Environmental Information System Centre - CASMB" is displayed with a rating of 6.70. Below the name, it lists "ENVIS", "CAS in Marine Biology", and "Faculty of Marine Science - Annamalai University". There are two buttons: "Add your publications" and "Add unpublished work". The navigation menu at the top includes "HOME", "PUBLICATIONS", "QUESTIONS", and "JOBS".

Show your career's best
Use your profile overview page to present yourself and your work in the best way to show your peers what you've been working on, your projects, and start building your network.

99	513	0	5
PUBLICATIONS	Views	Downloads	Citations

The screenshot shows the Facebook profile for "Envis Centre Casmb". The profile picture is a landscape image of a river. The cover photo is a similar landscape image. The profile name is "Envis Centre Casmb" with "Update Info" and "View Activity Log" buttons. The navigation menu includes "Timeline", "About", "Friends 108", "Photos", and "More". There are several posts on the timeline, including one from "CAS in Marine Biology, Annamalai University" and another from "CMSEnvis" dated 1 February. The right sidebar shows a list of friends, including Balaji Rajaraman, Ramesh Vasu, Parthiban Chermapani, Mahendran Mahi, Envis Biogeochem J., Cms Envis Delhi, Job Paul, Envis Centre Fgrtp Ifgtb, Ramesh S, Ism Envis Dhanbad, Goodwill Trust, Selva Kumar, and Prakash Williams. The bottom of the screen shows the Windows taskbar with the date 2/17/2016 and time 8:54 PM.

Internal review meeting

1st review meeting - 12.08.14 (2014 -2015)

2nd review meeting - 07.07.15 (2015 -2016)

3rd review meeting - 09.09.15 (2015 -2016)

4th review meeting will be on June 2016 (2016 - 2017)

Awareness campaign

1. Cleanliness campaign - 02.10.14 - No. of participants - 117
2. Coastal cleanup day - 19.09.15 - No. of participants - 155
3. The Science Express Climate Action Special (SECAS) at Kumbakonam - 04 06.03.16 - No. of visitors - 36.687



Generation of funds

ENVIS has so far generated funds to the tune of Rs.1,28,864/- by selling one third of printed publications with nominal charges.

Database – Website

1. Distribution of estuaries, mangroves, coral reefs and lagoons in India (*River basin map, Map - Outline structure, Image – Satellite or Google earth image, Photo – Original photo of particular region, Environmental parameters, Biological characteristics – dominant benthic fauna, dominant phytoplankton, dominant zooplankton, important shell fishes, important fin fishes and dominant flora, Environmental status – Industrial effluent discharges, sewage discharges, hazardous waste dumping and municipal solid waste dumping*).

Estuaries

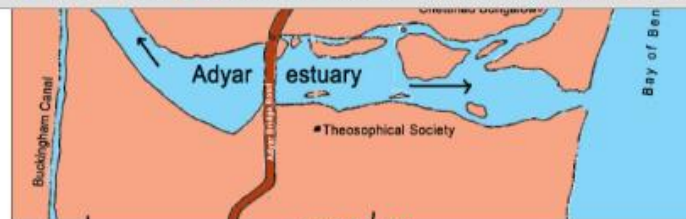
- ◊ Tamilnadu
- Adyar Estuary
- Agnitar Estuary
- Ambulliyar Estuary
- Araniar Estuary
- Athankarai Estuary
- Cooum Estuary
- Edaiyur-Sadras Estuarine Complex
- Ennore Estuary
- Gadilum Estuary
- Gundar Estuary
- Hanumananadi
- Kanjirankudi Estuary
- Karumeniyar (Manapadu)
- Kaveri
- Kollidam Estuary
- Kottakarayar Estuary

You are here: Home > Adyar estuary

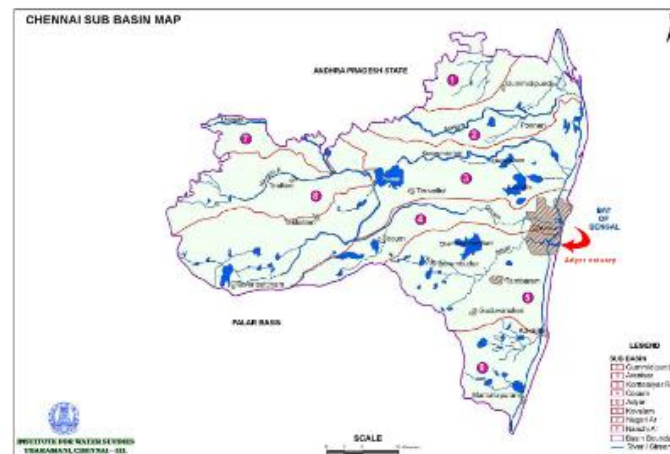
Last Updated: 01/04/2016

Adyar estuary

Adyar estuary



River Basin Map



Physico-chemical entities

Physico-chemical parameters of Adyar Estuary (Mean ± SE) during July 2010- June 2011.

Environmental Parameters	Pre-Monsoon	Monsoon	Post-Monsoon	Summer
Atmospheric temperature (°C)	30.00±0.57	27.33±0.33	28.66±1.20	29.00±0.57
Surface water temperature (°C)	31.33±0.88	28.66±0.66	28.66±0.66	30.00±0.00
pH	7.53±0.14	7.06±0.14	7.1±0.17	7.86±0.13
Salinity (‰)	22.00±2.08	25.66±2.02	25.66±2.40	15.66±2.33
Dissolved Oxygen (mg/l)	1.81±0.90	5.76±0.63	4.77±0.67	1.97±0.61
Nitrite (mg/l)	0.22±0.39	0.12±0.21	0.22±0.38	0.16±0.28
Ammonia (mg/l)	5.50±1.32	2.16±0.92	1.80±1.11	6.66±0.33
Phosphate (mg/l)	5.33±1.33	0.57±0.23	0.58±0.22	3.33±0.88

Fish known to occur in the Adyar estuarine reach: historical records in relation to the present survey (Ramanujam et al., 2014)

Species	1916*	1937	1950	1967	1982	Present
Class: Chondrichthyes (Cartilaginous Fishes)						
Order: Rajiformes (Rays)						
Family: Rhinobatidae (Guitarfishes)						
1 Grey Guitarfish <i>Rhinobatus obtusus</i> Muller & Henle	-	-	-	-	-	+
Family: Dasyatidae (Stingrays)						
2 Honeycombed Stingray <i>Dasyatis uarnak</i> (Forsskal)	-	-	-	-	-	+
3 <i>Taeniura sp.</i> Muller & Henle	-	-	-	-	-	+
Class: Osteichthyes (Bony Fishes)						
Order: Clupeiformes (Herrings and allies)						
Family: Clupeidae (Sardines and Shads)						
4 Kelee Shad <i>Hilsa kelee</i> (Cuvier)	-	-	-	-	-	+
5 Bloch's Gizzard Shad <i>Nematalosa nasus</i> (Bloch)	-	-	-	-	-	+
6 Goldstripe Sardinella <i>Sardinella gibbosa</i> (Bleeker)	-	+	+	-	-	+
7 Fringescale Sardinella <i>Sardinella fimbriata</i> (Valenciennes)	-	-	-	-	+	-
8 White Sardinella <i>Sardinella albella</i> (Valenciennes)	-	-	-	-	+	-
9 White Sardine <i>Escualosa thoracata</i> (Valenciennes)	-	-	-	-	-	+
Family: Chirocentridae						
10 Wolf Herring <i>Chirocentrus dorab</i> (Forsskal)	-	-	-	-	+	-
Family: Engraulidae (Anchovies)						

DETAILS OF MANGROVES

S.No	Location	
1	Name of the Mangrove	SUNDARBANS
2	River	Hooghly river basin
3	Place	
4	State	West Bengal
5	Coast	East Coast
6	Latitude	21°13'–22°40' N
7	Longitude	88°03'–89°07'E
8	Important Land Marks	Parts of the mangroves with Bangladesh
Key Physical Characters		
1	Total Area of Mangrove	4250 sq. km. / 2123 sq. km. (West Bengal)
2	Water Temperature	13°–36°C
Key Chemical Characters		
1.	pH	6.4–8.7
2	Salinity	0–15 ppt
4	Dissolved Oxygen	2.39–8.9 ml/l

Image

Fin fishes

- Aetobatus nari nari*
- Alectis indicus*
- Ambassis commersoni*
- Anguilla bengalensis*
- Anguilla bicolor*
- Anodontostoma chacunda*
- Anodontostoma thailandiae*
- Aorichthys aor*
- Aplocheilichthys panchax*
- Apocryptes bato*
- Arius arius*
- Arius caelatus*
- Arius gagora*
- Arius platystomus*
- Arius subrostratus*
- Awaouichthys menoni*
- Batrachichthys grunniens*
- Boleophthalmus boddarti*
- Brachygobius nanus*
- Carangoides ciliaris*
- Caranx ignobilis*
- Caranx sexfasciatus*
- Carcharhinus limbatus*
- Carcharhinus melanopterus*
- Chanda nama*
- Chanos chanos*
- Chelonodon cutcutia*
- Chelonodon patoca*
- Chillosotoma gasciatum*
- Coilia dussumieri*
- Coilia neglecta*
- Coilia ramacarati*
- Coilia raynaldi*
- Cynostomus punctatus*



Photos



Andaman Nicobar islands

Andaman and Nicobar	
Name of the area	: Andaman and Nicobar (group of islands)
Place	: Champell bay
Latitude	: 6°-14°N
Longitude	: 91°-94°E
Key Physical Characters	
Tidal amplitude	: 2.5meter
Water temperature:	: 24-32°C
Chemical Characters	
pH	: 7.2-8.1
Salinity	: 29.73 and 32.81 ppt in Southern Andaman 33 ppt
Major Flora and Fauna	
Zooplankton	List of chaetognath species recorded from the Andaman Sea.
	<i>Eukrohnia fowleri</i> Ritter-Zahony, 1909 - Not evaluated
	<i>Krohnitta balagopalia</i> (Nair et al., 2008) - Not available

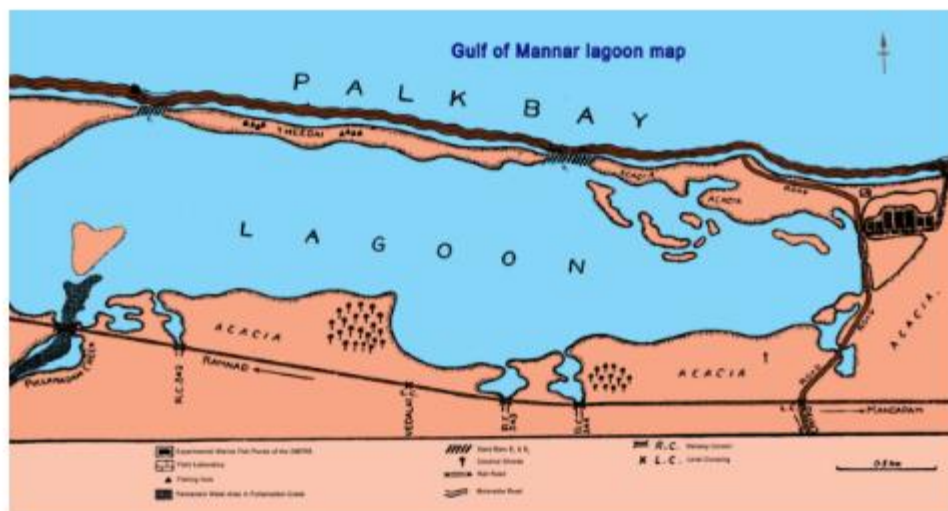


Endangered species	Orangutan, turtles, marine mammals etc.,
Archaeologically/Biologically Important Places	
Islands	570 islands, out of which only 38 are permanently inhabited
	several hundred meter separated by Lagoon Coral reef stretch 11,000 sq.km
	Andaman and Nicobar 27,000 sq. km
List of Corals	
	Family : ACROPORIDAE
	<i>Acropora aspera</i> - Vulnerable
	<i>Acropora austra</i> - Near threatened
	<i>Acropora cytherea</i> - Least concern
	<i>Acropora carduus</i> - Near threatened
	<i>Acropora cerealis</i> - Least concern
	<i>Acropora chesterfieldensis</i> - Least concern
	<i>Acropora clathrata</i> - Least concern
	<i>Acropora cophodactyla</i> - Data deficient
	<i>Acropora digitifera</i> - Near threatened
	<i>Acropora divaricata</i> - Near threatened
	<i>Acropora donei</i> - Vulnerable
	<i>Acropora echinata</i> - Vulnerable
	<i>Acropora efflorescens</i> - Data deficient
	<i>Acropora formosa</i> - Near threatened
	<i>Acropora gemmifera</i> - Least concern
	<i>Acropora globiceps</i> - Vulnerable
	<i>Acropora granulosa</i> - Near threatened
	<i>Acropora graxida</i> - Near threatened

Gulf of Mannar Lagoons

Gulf of Mannar lagoon	
Location Details	
Place :	Mandapam
District :	Ramanathapuram
State :	Tamil Nadu
Latitude :	8° 48' -9°20'N
Longitude :	78°10' -79°15' E
Important Land Marks :	Rameswaram
Key Physical Characters	
Water temperature :	24-34.5°C
Nature of the substratum :	Sandy clay
Chemical Characters	
pH :	8.0-8.5
Salinity :	25-45 ppt
Dissolved Oxygen :	1.0-6.0 mg/l
Biological Characters	

Map



Water temperature :	24-34.5°C
Nature of the substratum :	Sandy clay
Chemical Characters	
pH :	8.0-8.5
Salinity :	25-45 ppt
Dissolved Oxygen :	1.0-6.0 mg/l
Biological Characters	
Phytoplankton :	<i>Biddulphia</i>
	<i>Ceratium trichoceros</i>
	<i>Cetatum massiliense</i>
	<i>Chaetoceros</i>
	<i>Chroococcus</i>
	<i>Coscinodiscus</i>
	<i>Lyngbya sp.</i>
	<i>Merismopedia sp.</i>
	<i>Microcoleus</i>
	<i>Nitzschia longissima</i>
	<i>Noctiluca miliaris</i>
	<i>Phormidium sp.</i>
	<i>Rhizosolenia</i>
	<i>Spirulina sp.</i>
	<i>Thalassiothrix</i>
	<i>Thallossionema</i>
	<i>Trichodesmium</i>
Zooplankton :	<i>Brachionus sp.</i>

2. Manual on Identification of common fishes of Parangipettai waters

Key characters of different genera and species

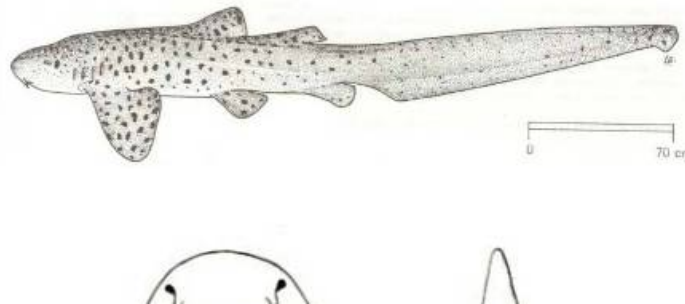
Cartilaginous Fishes (Chondrichthyes)

1. Order : Orectolobiformes
Family : Stegostomatidae

Stegostoma fasciatum (Hermen, 1783)

Common name: Tiger shark
Vernacular name : Pulisura

1. Nostrils close to front of snout, with short barbells and nasoral grooves connecting them with the mouth but without circumnasal grooves.
2. Caudal fin nearly or quite half of total length with the lower lobe hardly developed.
3. A strong colour pattern changing with growth.



3. Checklist of Flowering Plants and Fern in Mangrove Ecosystems of India

Identification Keys to the Families

Identification Keys to the Families

Species	Acanthaceae
Habit	Shrub, either erect or climbing on the mangrove plants of the river slope
Stem	Woody, slender, twining
Root	Stilt roots with pointed armed at stem and leaves
Leaf	Leaves broad, hard, dark green, wavy margin with sharp spines
Flower	Bisexual, violet or white, cluster raceme with prominent bracts and bracteoles, and petals united
Fruit	Capsule upto 2 cm long

Species	Aizoaceae
Habit	Plants grow in intertidal zones, fully herbaceous with creeping branches
Stem	Reddish or pinkish, green colour in younger plant
Root	-
Leaf	Succulent, reddish, turgid
Flower	Solitary with pink colour upto 1 cm
Fruit	-

Species	Apocynaceae
Habit	Herbs or shrubs with milky sap
Stem	-
Root	-
Leaf	-

Ecosystems of India

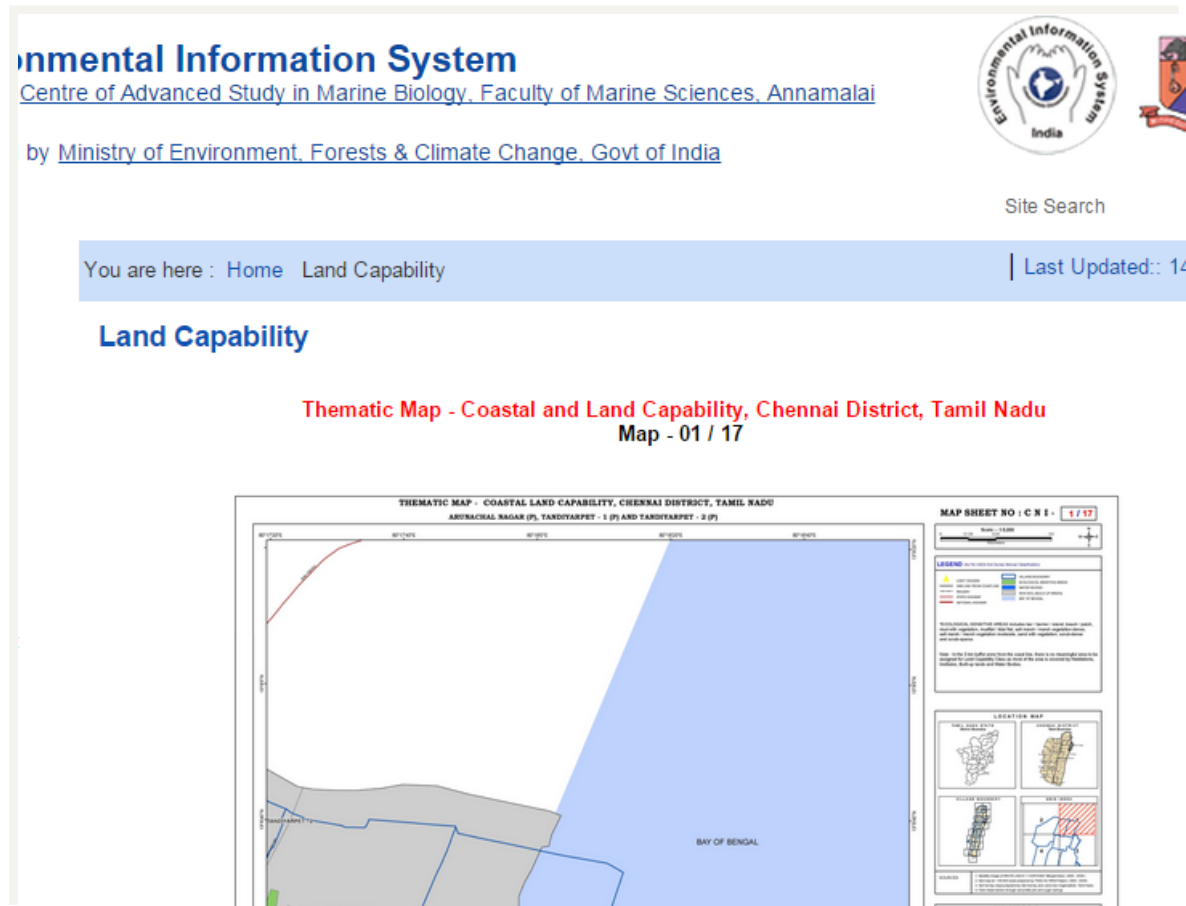
Systematics of Flowering Plants and Fern in Mangrove Ecosystems of India

Systematics						
Class	Subclass	Series	Order	Family	Genus	Species
Monocotyledones	-	Calycineae	-	Arecaceae (Palmae)	Nypa Steck	N. fruticans (Thunb.) Wurm.
Monocotyledones	-	Calycineae	-	Arecaceae (Palmae)	Phoenix L.	P. paludosa Roxb.
Monocotyledones	-	Glumaceae	-	Cyperaceae	Fimbristylis Vahl.	F. ferruginea (L.) Vahl.
Monocotyledones	-	Glumaceae	-	Cyperaceae	Scirpus L.	S. littoralis Schrad.
Monocotyledones	-	Glumaceae	-	Poaceae (Gramineae)	Porteresia Tateoka	P. coarctata (Roxb.) Tateoka
Monocotyledones	-	Glumaceae	-	Poaceae (Gramineae)	Myriostachya Hook.f.	M. wightiana Nees ex. Steud. Hook.f.
Monocotyledones	-	Glumaceae	-	Poaceae (Gramineae)	Aeluropus L.	A. lagopoides (L.) Trin.
Monocotyledones	-	Glumaceae	-	Poaceae (Gramineae)	Urochondra	U. setulosa (Trin.) Hubb.
Monocotyledoneae	-	-	Pandanales	Pandanaceae	Pandanus Parkins	P. tectorius Kuntze

4. Integrated Coastal Zone Management Plan and Coastal Vulnerability Maps of Tamil Nadu (2014 -2015)

Different type of maps

1. Land Capability
2. Land Vulnerability
3. Landuse
4. Sectoral
 - a. Agriculture sector
 - b. Ecosystem Sector
 - c. Energy Sector
 - d. Fisheries Sector
 - e. Forestry Sector
 - f. Industries Sector
 - g. Infrastructure Sector
 - h. Tourism Sector



5. Bhuvan (Point of Interest, Point map, Choropleth Maps, Estuaries of Tamil Nadu & Andhra Pradesh, east coast mangrove region)

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Estuaries

- Tamilnadu
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 - Agniar Estuary
 - Ambuliyar Estuary
 - Aranar Estuary
 - Athankara Estuary
 - Cooum Estuary
 - Edaipur-Sadas Estuarine Complex
 - Ennore Estuary
 - Gadilum Estuary
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 - Hanumanadi
 - Kanjankudi Estuary
 - Karumehyar (Manapadu)
 - Kaveri
 - Kolidaam Estuary
 - Kottakaraiy Estuary
 - Kuduvaiyar Estuary
 - Manakudy Estuary
 - Manimuttar Estuary
 - Nambiyar
 - Nandalar Estuary
 - Palayakoyal Estuary
 - Pambar
 - Panti Estuary

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Indian Mangroves

Mangroves_Name,State,River,Place,Longitude,latitude

Bhitaranka Orissa,Brahmani,Kendrapara,86.86,20.73
 Muthupuzh,Tamilnadu,Cauvery,Muthupuzh,79.67,10.34
 Pichavaram,Tamilnadu,Coleroon,Pichavaram,79.78,11.43
 Sundarans,West Bengal,Hooghly,West Bengal,88.73,21.88
 Krishna,Andhrapradesh,Krishna,Krishna,80.92,15.76

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Estuaries of Tamil nadu

River_State,Place,District,Longitude,latitude

Adyar,Tamilnadu,Adyar,Chennai,80.26,13.01
 Agniar,Tamilnadu,Vellore,Pudukota,79.36,10.33
 Araniar,Tamilnadu,Vaikathipatti,Tiruvallur,80.93,13.43
 Vaiga,Tamilnadu,Athankara,Ramanathapuram,79.99,9.34
 Cooum,Tamilnadu,Chennai,Chennai,80.26,13.06
 Palar,Tamilnadu,Solaras,Myluram,80.16,12.94
 Kottakalayar,Tamilnadu,Errore,Tiruvallure,80.32,13.23
 Cauvery,Tamilnadu,Kollidam,Nagapattinam,79.83,11.48
 Panti,Tamilnadu,Puducherry,Kanjankudi,79.27,8.11
 Sothuvai,Tamilnadu,Karimnagar,Pudukota,79.43,10.06
 Thengapattinam,Tamilnadu,Thengapattinam,Kanjankudi,77.16,8.24
 Uppalar,Tamilnadu,Cuddalore,Port Cuddalore,78.77,11.69
 Vailiyar,Tamilnadu,Udagapattinam,Kanjankudi,77.32,8.13
 Velai,Tamilnadu,Parangipeta,Cuddalore,79.76,11.48
 Ongu,Tamilnadu,Ambur,Myluram,79.63,10.23
 Ambuliyar,Tamilnadu,Chinnarasana,Pudukota,79.32,10.26
 Gadilum,Tamilnadu,Cuddalore,Cuddalore,79.76,11.73
 Gundar,Tamilnadu,Ramanathapuram,Ramanathapuram,79.48,9.13
 Hanumanadi,Tamilnadu,Pembar,Tirunelveli,77.65,5.16
 Uthirakottam,Tamilnadu,Kanjankudi,Ramanathapuram,79.83,9.25
 Karumehyar,Tamilnadu,Manapadu,Thoothukudi,79.05,8.38
 Kaveri
 Kollidaam Estuary
 Kottakaraiy Estuary
 Kuduvaiyar Estuary
 Manakudy Estuary
 Manimuttar Estuary
 Nambiyar
 Nandalar Estuary
 Palayakoyal Estuary
 Pambar
 Panti Estuary
 Ponnaiyar Estuary
 Punnakoyal Estuary
 South Vellar Estuary
 Thengapattinam Estuary
 Thirumulaivasa Estuary
 Uppalar Estuary
 Upper Estuary
 Vailiyar Estuary
 Veankami Estuary
 Vellar Estuary
 Vemtar Estuary
 Vettar Estuary
 Velayuthi Estuary

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Estuaries

- Tamilnadu
 - Adyar Estuary
 - Agniar Estuary
 - Ambuliyar Estuary
 - Aranar Estuary
 - Athankara Estuary
 - Cooum Estuary
 - Edaipur-Sadas Estuarine Complex
 - Ennore Estuary
 - Gadilum Estuary
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 - Hanumanadi
 - Kanjankudi Estuary
 - Karumehyar (Manapadu)
 - Kaveri
 - Kollidaam Estuary
 - Kottakaraiy Estuary
 - Kuduvaiyar Estuary
 - Manakudy Estuary
 - Manimuttar Estuary
 - Nambiyar
 - Nandalar Estuary
 - Palayakoyal Estuary
 - Pambar
 - Panti Estuary

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Estuaries of Andhra Pradesh

River_State,Place,Longitude,latitude

Godavari,Andhrapradesh,Bharavapalem,82.21,16.56
 Gosthani,Andhrapradesh,Bharavapalem,83.43,17.88
 Kandeluru,Andhrapradesh,Krishnapattinam,80.12,14.24
 Krishna,Andhrapradesh,Machilipatnam,81.16,16.00
 Pennar,Andhrapradesh,Pennar,80.17,14.57
 Sarada,varaha,Andhrapradesh,Sarada,varaha,82.86,17.41
 Swarnamukhi,Andhrapradesh,Swarnamukhi,80.13,14.06
 Vamsadhara,Andhrapradesh,Kalingapatnam,84.13,18.34
 Vasistha_godavari,Andhrapradesh,Antarvedi,81.7,16.3

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6. Regular updating, subject area, publications, latest news, upcoming events, kid centre, glossary, major activities , bibliography and photos

Economic Advisor's Visit



Evaluation of ENVIS activities by Ms. Vandana Agarwal (05.02.2014), Shri. M. Kannan (23.10.2015) Former Economic Advisers & In-Charge of All ENVIS centres(MOEF&CC)

Annual plan 2016 -2017

Sl.No.	Activities	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	Newsletter												
	Seshaiyana –Vol. 24, No. 1												
	Seshaiyana –Vol. 24, No. 2												
	Seshaiyana –Vol. 24, No. 3												
	Seshaiyana –Vol. 24, No. 4												

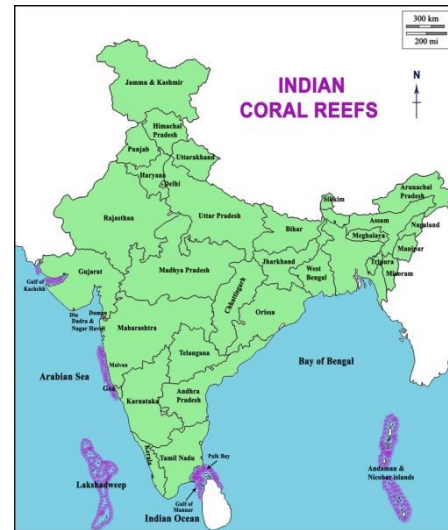
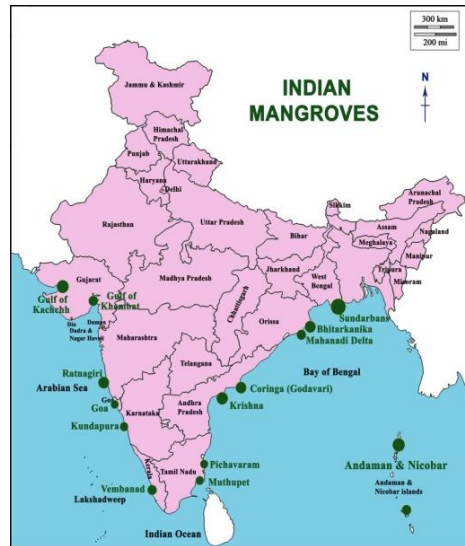
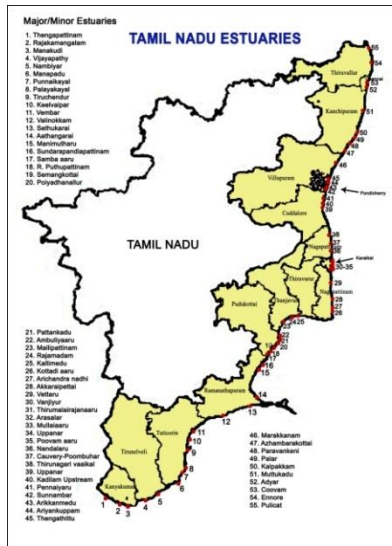
Publication of the ENVIS newsletter, *Seshaiyana* is to be continued.

Sl.No.	Activities	Apr .	Ma y.	Jun .	Jul .	Aug.	Sep.	Oct.	Nov.	Dec.	Jan .	Feb.	Ma r.
1	State –of-the –art report												
	Coral reefs of India (2000 -2015)	Draft Preparation				Draft submitted to Editorial Board				Publishing the report			
2	Bibliography												
	Indian coral reefs (2000- 2015)	Compilation						Publication					

- **Coral reefs - Strikingly different and stunningly beautiful lurid fishes and other organisms including the corals themselves make it a living monument of vividness and exquisiteness.**
- **Coral reefs significantly contribute to livelihoods of coastal communities in India. The awesome diversity of this environment has not yet been fully studied.**
- **In India - Gulf of Kachchh, Lakshadweep, Gulf of Mannar, Palk Bay, Andaman and Nicobar Islands and the recently identified patchy reefs of Ratnagiri coasts in Maharashtra State and Gaveshani Bank (off Mangalore Coast, Karnataka).**
- **Our center - state-of-the-art reports on coral ecosystem up to the year 2000**
- **Update the state of art report up to the year 2015.**
- **Research findings in the research publication and reports available in various parts of the country including the works done by several of the scientists from various institutes, actively engaged in this line of research work.**
- **conservators, policy makers, researchers and other user community to understand the present scenario of the coral ecosystems of the Indian subcontinent and to take policy decisions for effective management.**

Sl.No.	Activities	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	Poster / Pamphlet preparation												

Poster and pamphlets having basic and important information about ecology, biology and values of estuaries, mangroves, coral reefs and lagoons will be prepared.



Sl.No.	Activities	Apr	Ma	Jun	Jul	Aug.	Sep.	Oct.	Nov.	Dec.	Jan	Feb.	Ma
2	Video and photograph	.	y.	.	.						.		r.

Our website is now-a-days becoming a center of attraction for the all stakeholders, because of its extensive collection of references and visuals like Maps, Images, Photographs and few video clippings of the Estuaries, Mangroves, and Lagoons.

Further, these video visuals in our web site would enlighten the common people besides children and it would also promote and enhance Eco Tourism in all the coastal wetlands. The new video clippings taken would be incorporated in our website every now and then



Vellar-estuary.wmv

Annual plan

Sl.No.	Activities	Apr	Ma	Jun	Jul	Aug.	Sep.	Oct.	Nov.	Dec.	Jan	Feb.	Ma
		.	y.	.	.						.		r.
1	Awareness programme												

Awareness programme regarding protection of estuaries, mangroves, coral reefs and lagoons will be conducted for school students, college students, research scholars and common people.

Database

Information on estuaries and mangroves will be collected from west coast of India (Kerala, Karnataka, Goa, Maharashtra and Gujarat) besides Andaman, Nicobar and Lakshadweep islands. This information will be uploaded in our website.

Thank you