



3



ANOS

PROJETO TAMAR

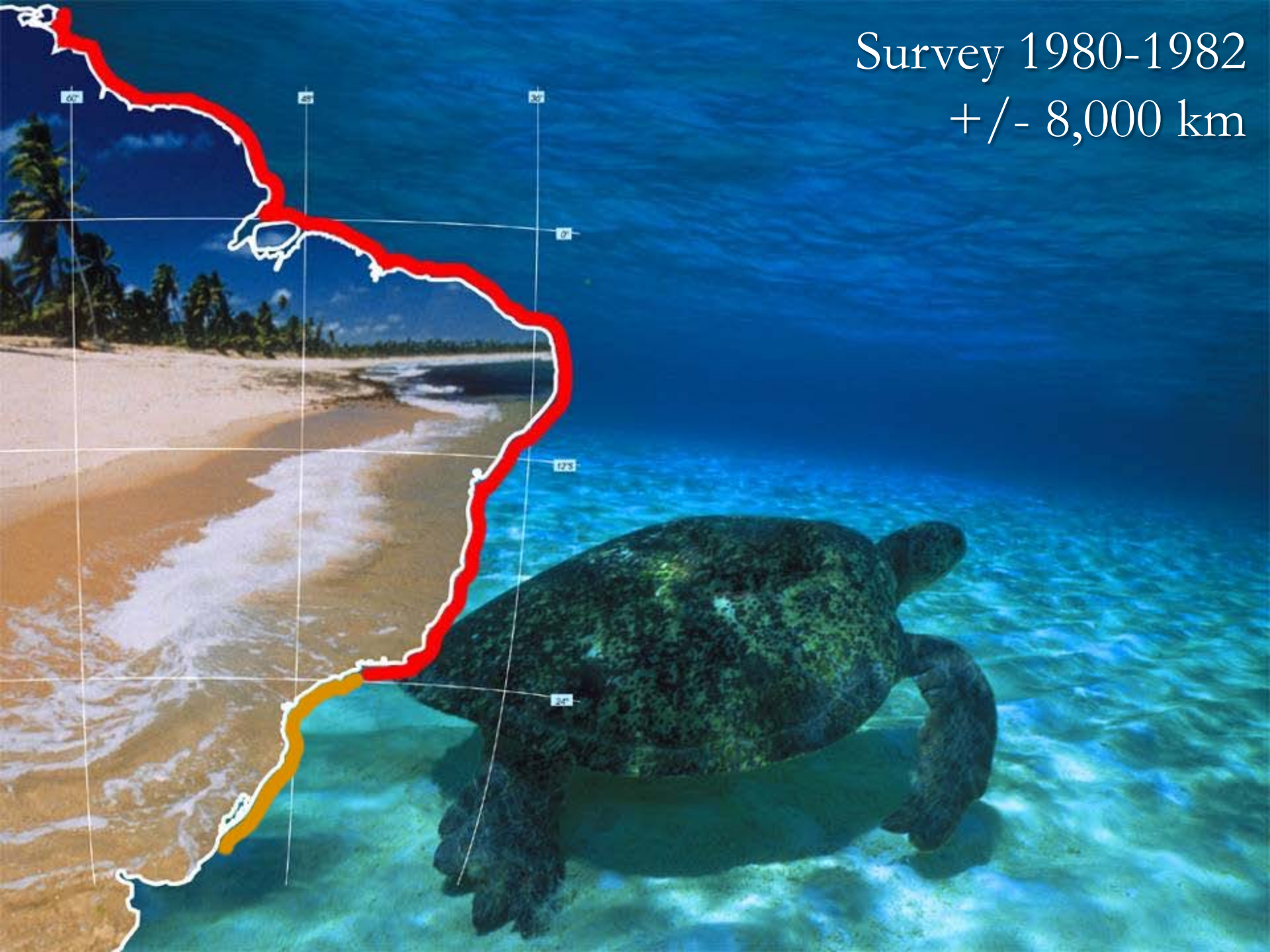
WIDECAST - 2011

Projeto TAMAR activities began in 1980



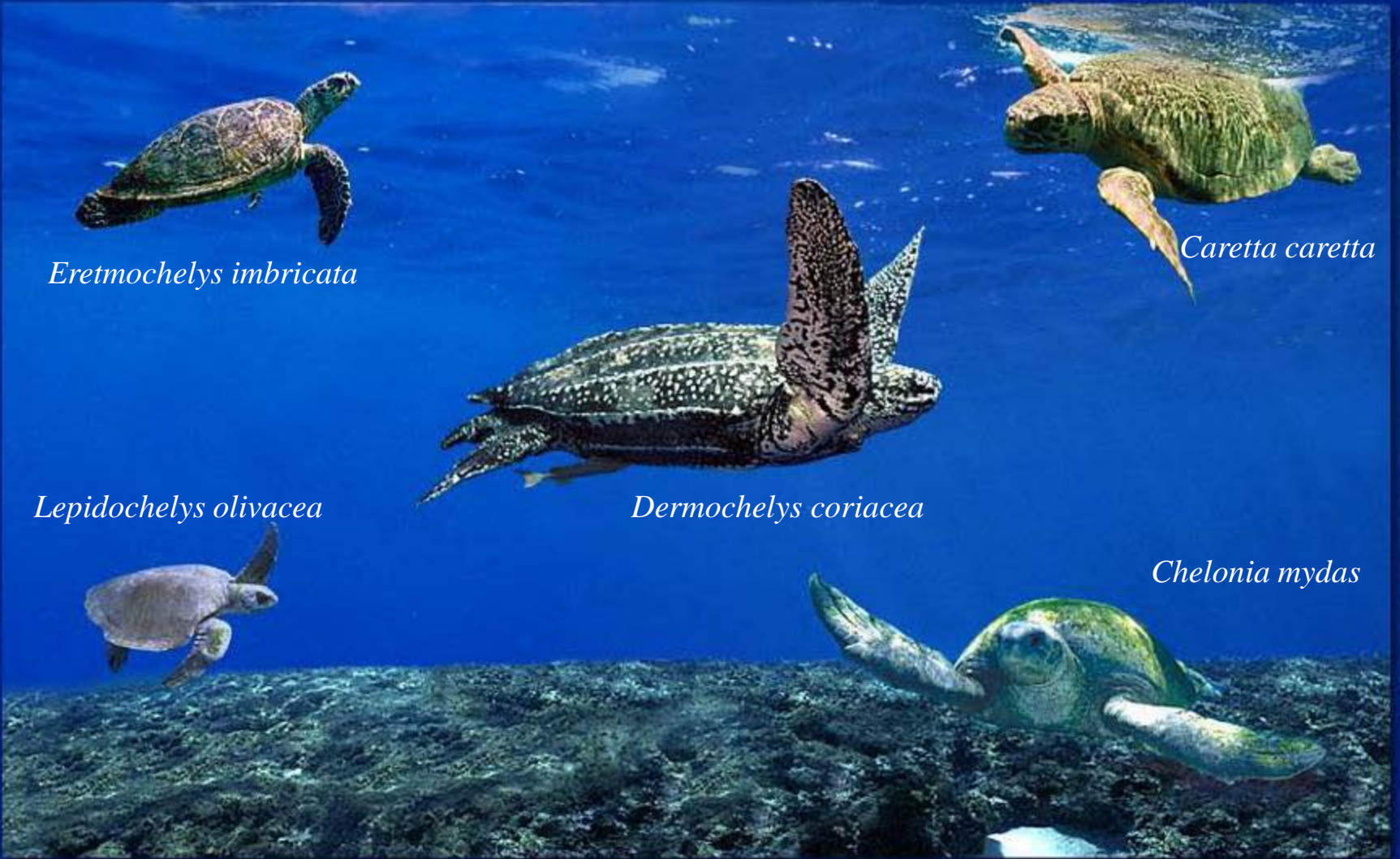
Projeto **T**Artarugas **MAR**rinhas

Survey 1980-1982
+/- 8,000 km





The main nesting beaches were identified and local communities were invited to participate.



Eretmochelys imbricata

Caretta caretta

Lepidochelys olivacea

Dermochelys coriacea

Chelonia mydas

5 sea turtle species

Threats



Mission

Develop conservation actions and research in order to ensure the recovery and survival of the five species of sea turtles in Brazil, at healthy levels able to fulfill their ecological roles

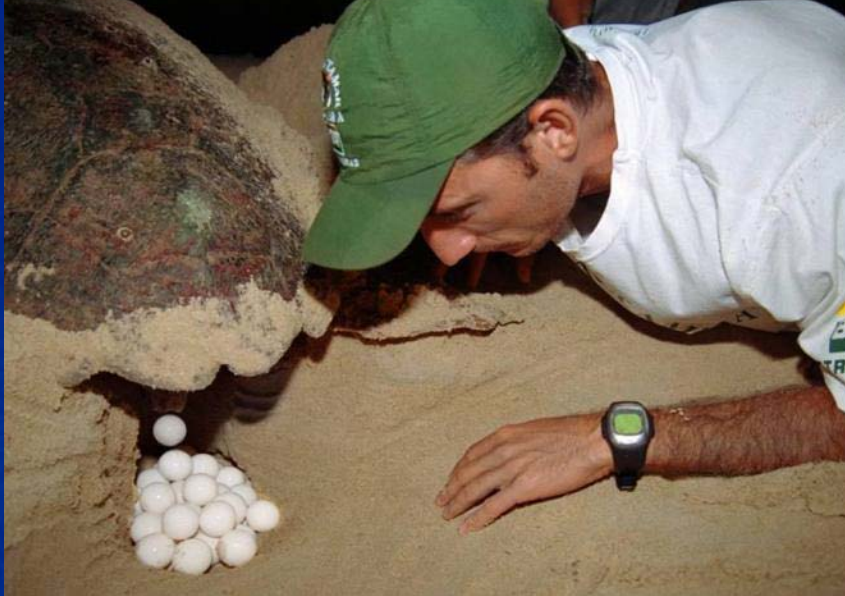


After 30 years Tamar celebrates the protection of
10 millions of hatchlings.



Today:

- 23 stations all year round
- 1100 km monitored
- Standardized data collection
- 1300 collaborators (coastal residents)
- 160 technical staff
- 200 trainees



Each “tartarugueiro” patrols daily 5 km of nesting beaches

- ✿ Monitoring and Protection
- ✿ Standard and regular data collection only by researchers

Beach management

- ✓ Nests are marked and monitored until they hatch
- ✓ All data is collected by researchers and stored in a national database

In situ - 70% of the nests

Beach relocation - 13 % of the nests



Hatchery management

- ✓ Collection of incubation parameters to compare with control nests (*in situ*)

17% of the nests

When extremely necessary.

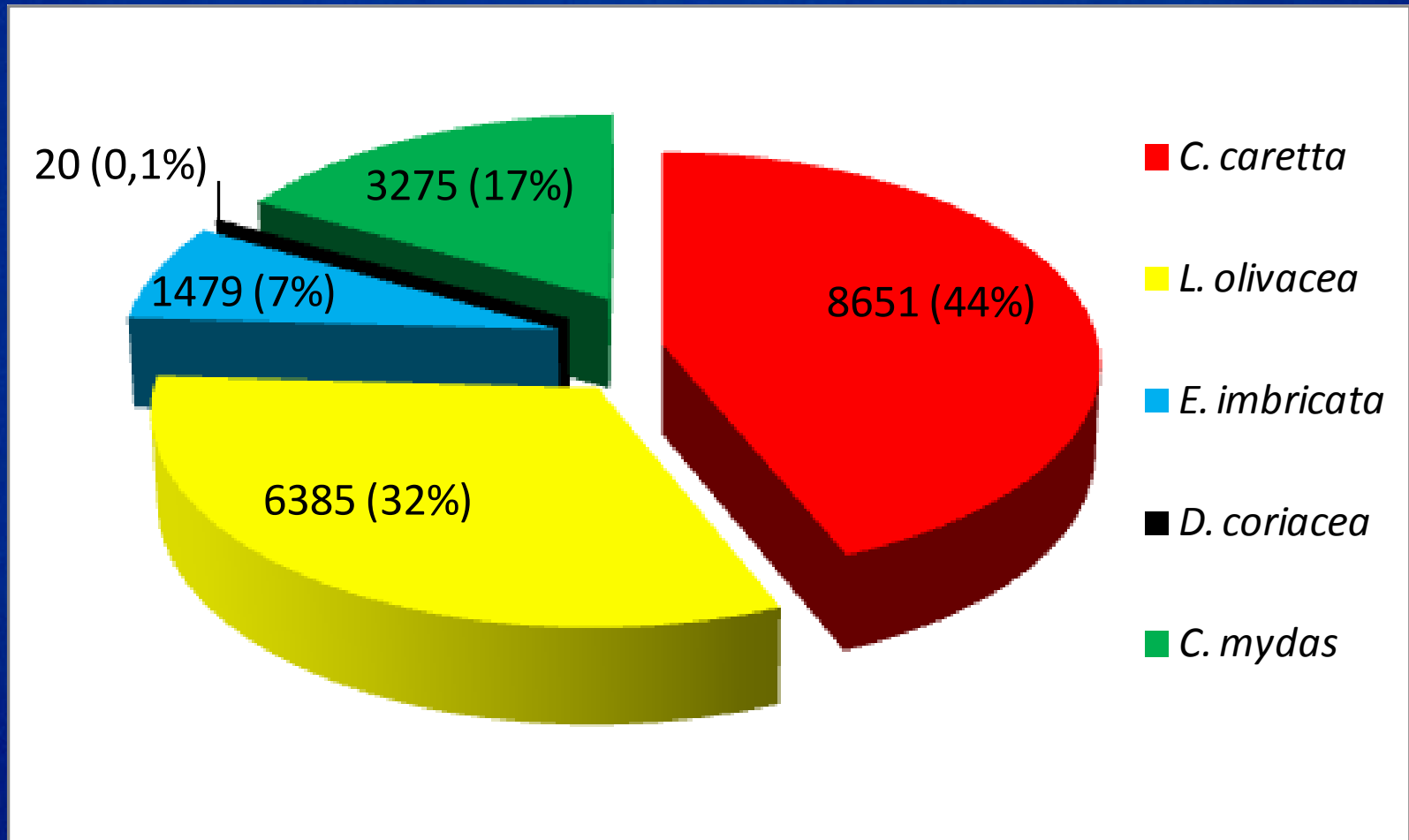


Night Patrols

- Tagging
- Biometrics
- Tissue sampling

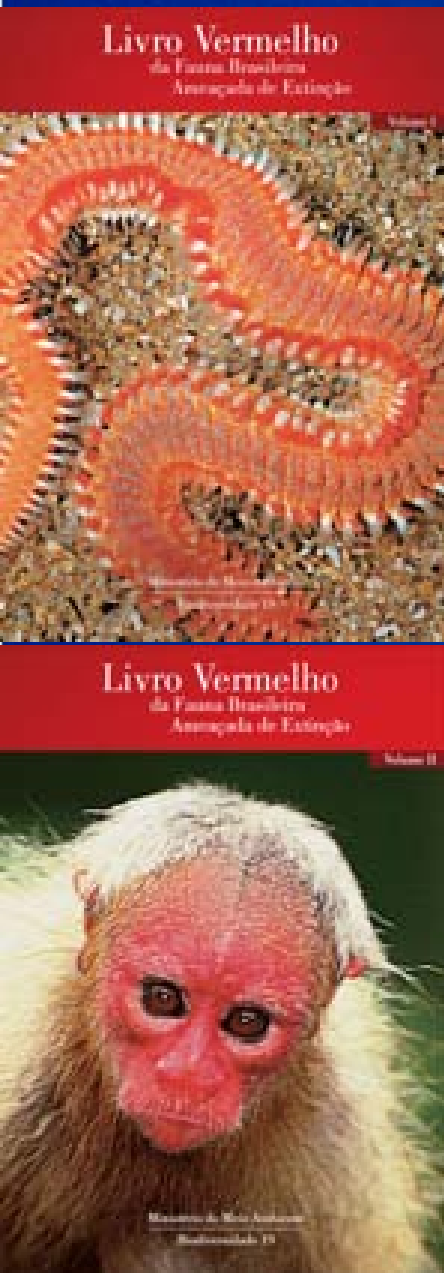


Number of nests/species - 2010/2011



Total number of nests protected = 19810

Revision of the Red List of Species in Brazil - 2010



Species	Status
<i>C. caretta</i>	Endangered
<i>L. olivacea</i>	Endangered
<i>E. imbricata</i>	Critically Endangered
<i>D. coriacea</i>	Critically Endangered
<i>C. mydas</i>	Vulnerable

In water activities

Chelonian Conservation and Biology, 2006, 5(2): 284–288
© 2006 Chelonian Research Foundation

Cleaning Symbiosis Between Hawksbill Turtles and Reef Fishes at Fernando de Noronha Archipelago, off Northeast Brazil

ALICE GROSSMAN¹, CRISTINA SAZIMA^{2,3},
CLÁUDIO BELLINI¹, AND IVAN SAZIMA³

¹*Projeto Tamar/IBAMA, Akameda Boldró s/no, 53990-000 Fernando de Noronha, Pernambuco, Brazil [alice@tamar.org.br];*

²*Departamento de Zoologia, Caixa Postal 199, Universidade Estadual Paulista, 13506-900 Rio Claro, São Paulo, Brazil [csazima@unicamp.br];*

³*Departamento de Zoologia e Museu de História Natural, Caixa Postal 6109, Universidade Estadual de Campinas, 13083-970 Campinas, São Paulo, Brazil [isazima@unicamp.br]*

-Mark/Recapture

1990 – Implantation of Tamar stations at foraging areas

- Recovery of stunned turtles
- Checking nets for turtles
- Bringing captured animals to research team (tagging, biometry, species identification, recapture information)





2001- Brazilian National Plan to Reduce the Incidental Capture of Sea Turtle in the Fisheries

Marine Turtle Newsletter

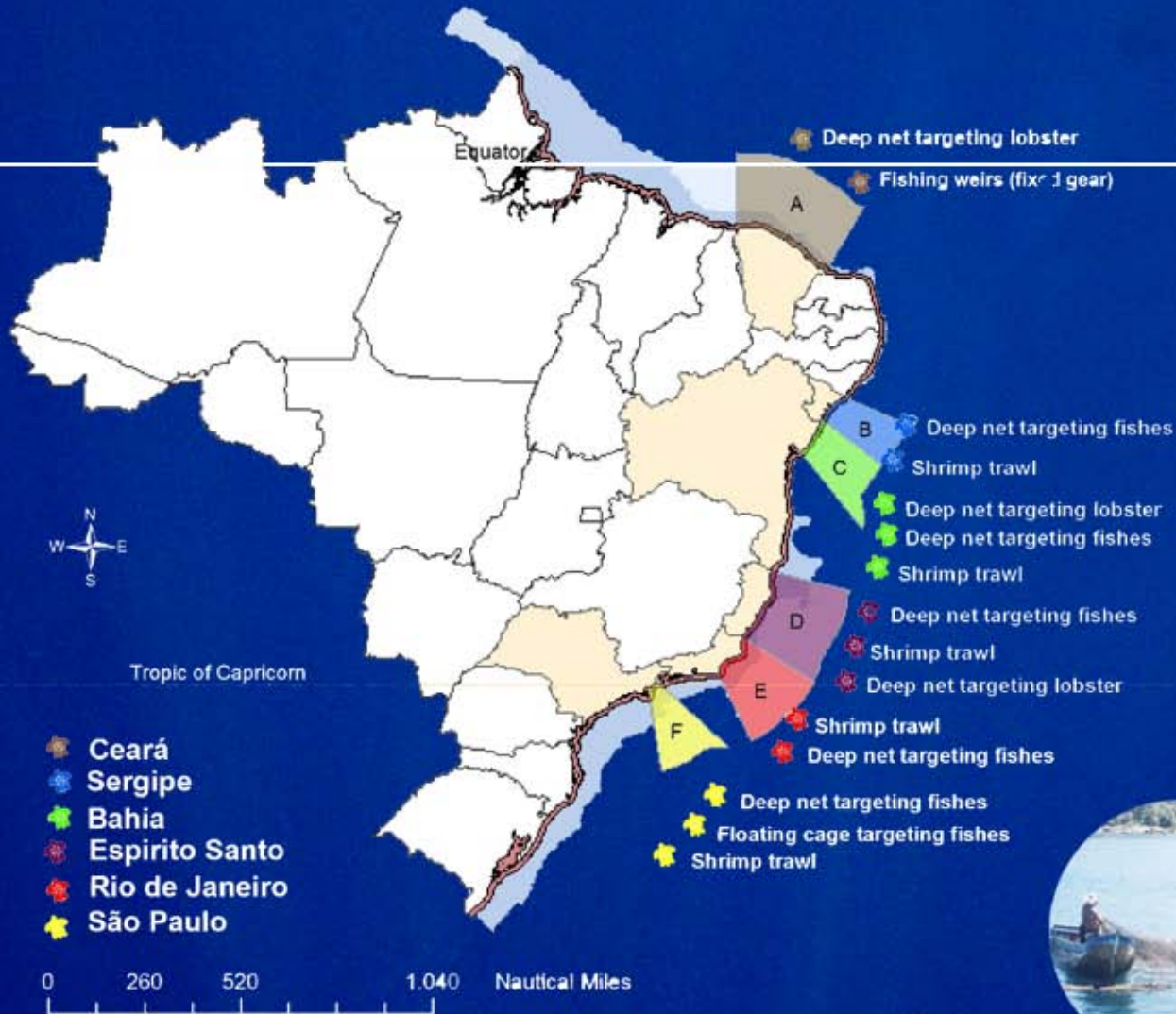
Sea Turtles and Fishery Interactions in Brazil: Identifying and Mitigating Potential Conflicts

Maria Ângela Marcovaldi²*, Gilberto Sales¹†, João C. A. Thomé¹, Augusto C. C. Dias da Silva², Berenice M. G. Gallo², Eduardo H. S. M. Lima², Eron P. Lima², Cláudio Bellini¹

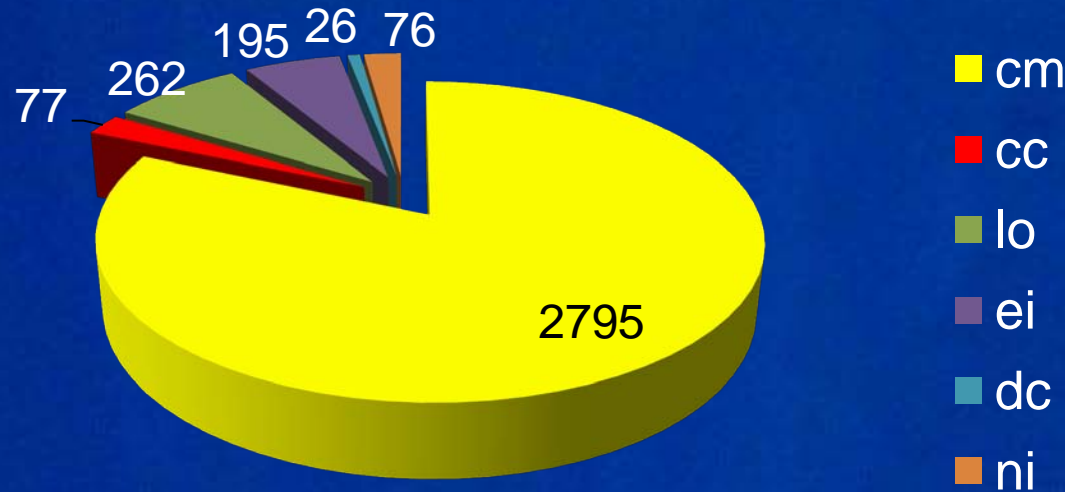
¹Projeto TAMAR-IBAMA. Caixa Postal 2219 Rio Vermelho, Salvador, Bahia, Brazil

²Fundação Pró-TAMAR. Caixa Postal 2219 Rio Vermelho, Salvador, Bahia, Brazil
(E-mail: *neca@tamar.org.br; †fgil-sales@tamar.org.br)

Coastal fisheries that interact with sea turtles in Brazil



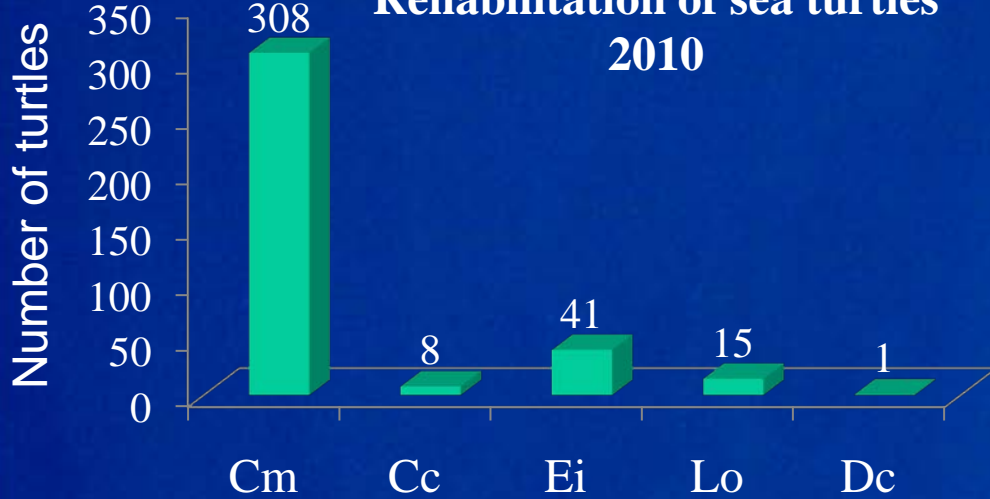
Strandings / Species (2010)



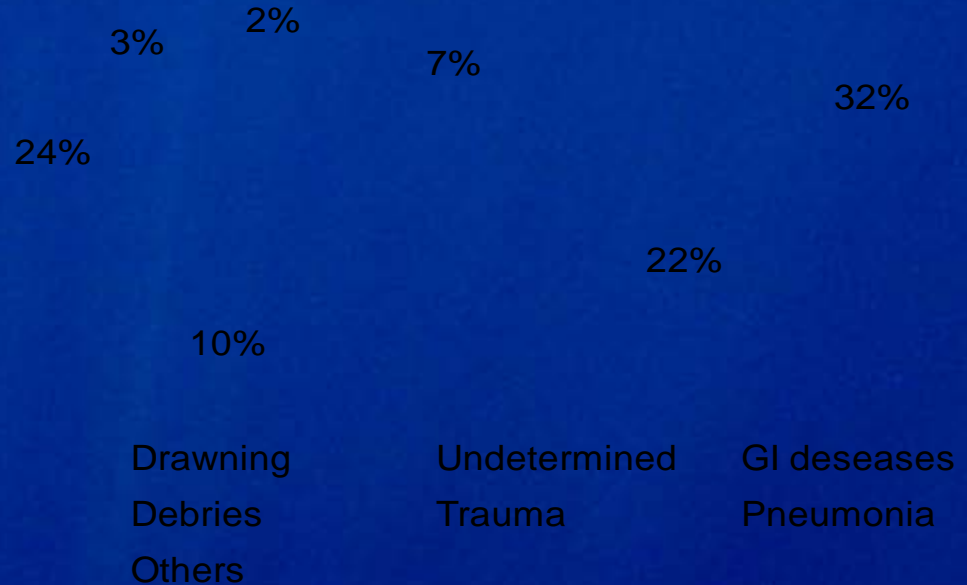
Coastal fisheries are the main cause
Green turtles - more than 80% of the strandings
Juveniles
Set nets

Vet and Conservation

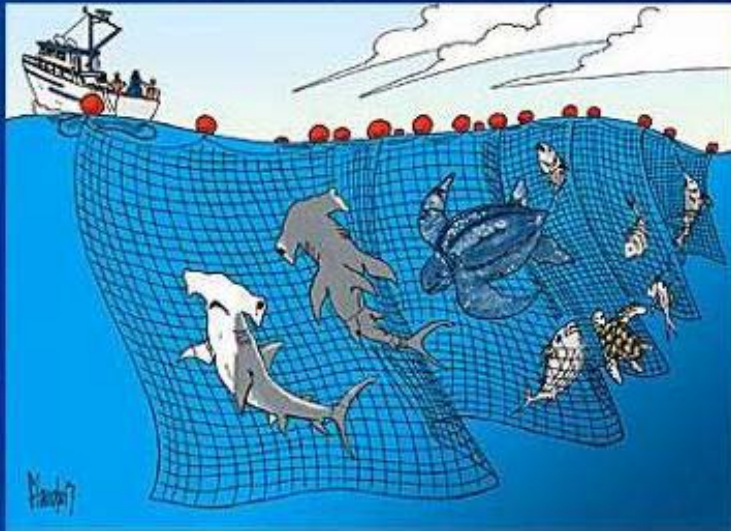
Rehabilitation of sea turtles
2010



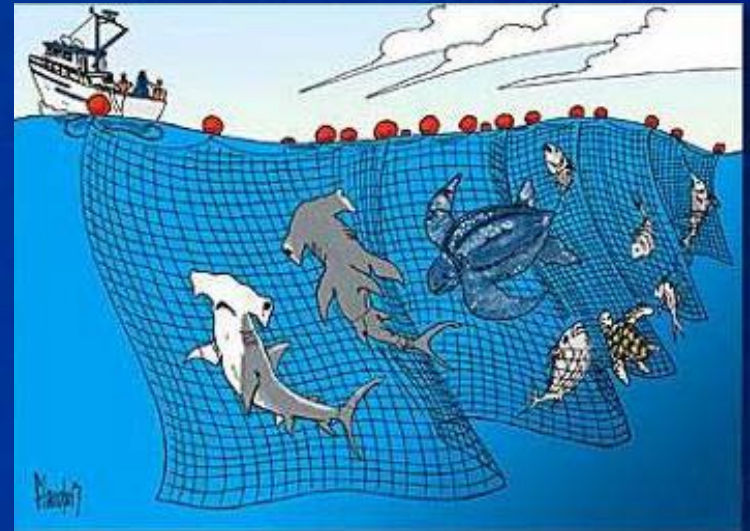
Necropsy findings 2010 (n= 370)



Oceanic fisheries that interact with sea turtles in Brazil



Pelagic longline



Driftnets

Research and Mitigation



Dip net



De-hookers and line cutters

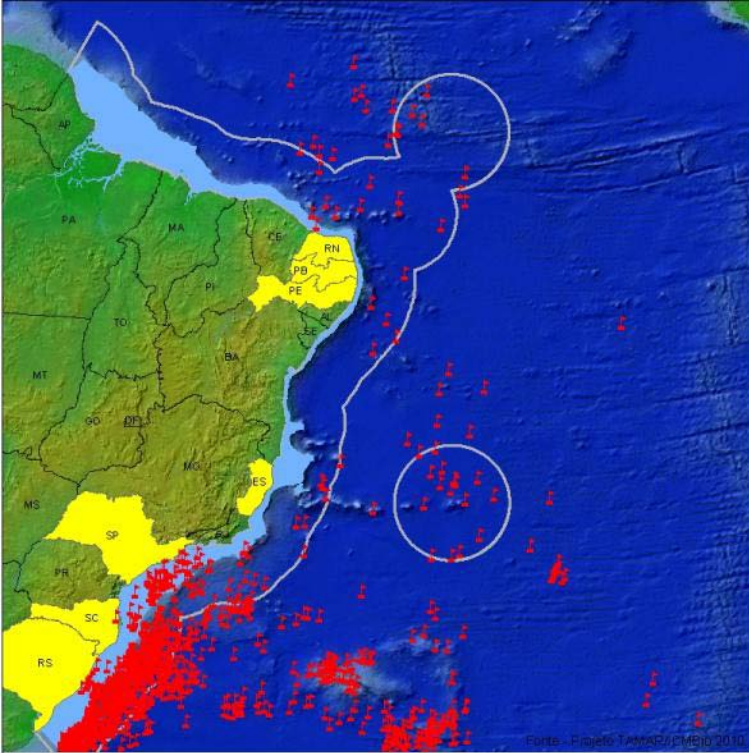


On board observers

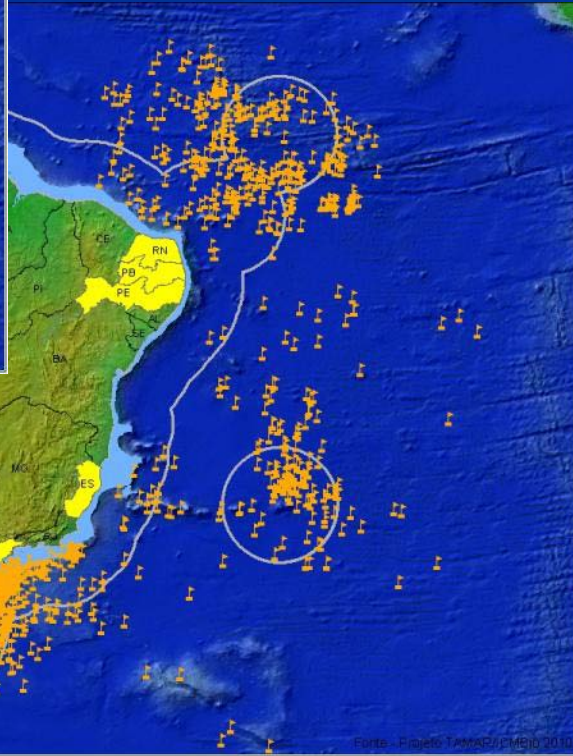
Records of incidental capture of turtles in oceanic fisheries

2001-2010

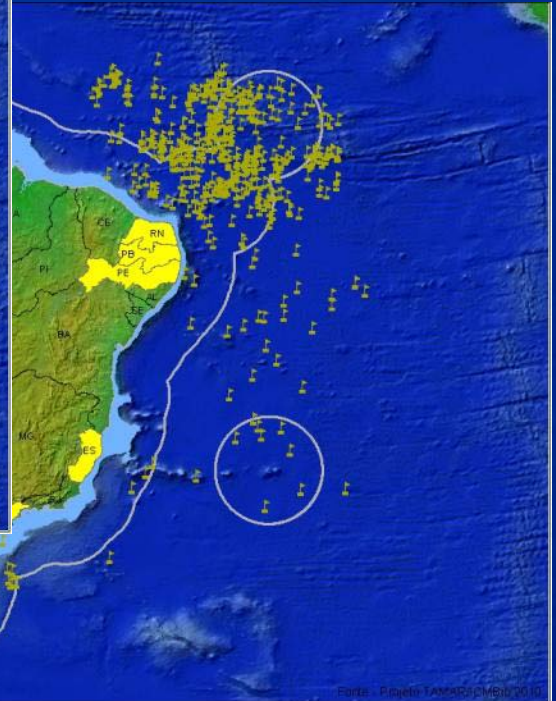
n = 15663 sets



C. caretta

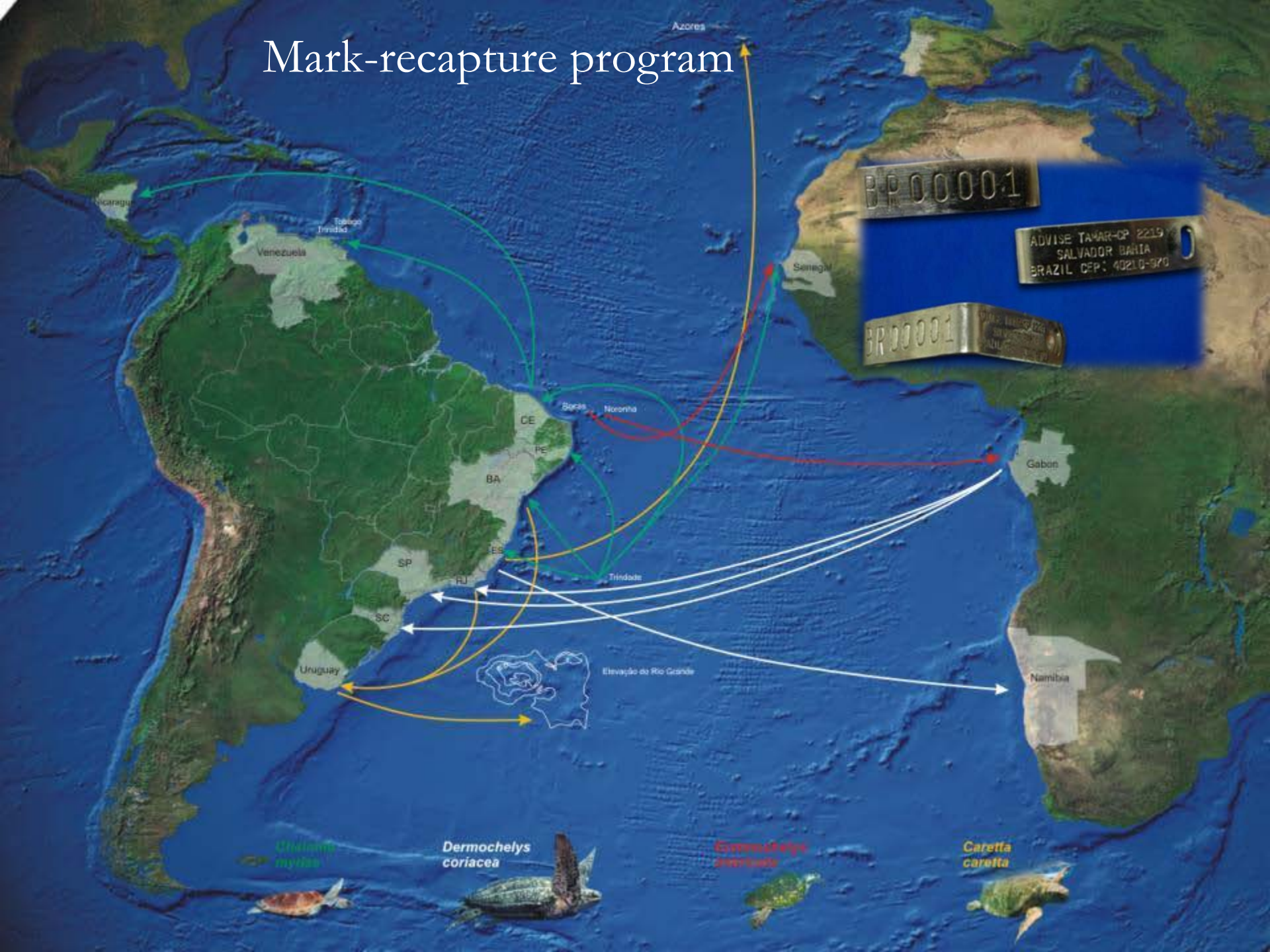


D. coriacea



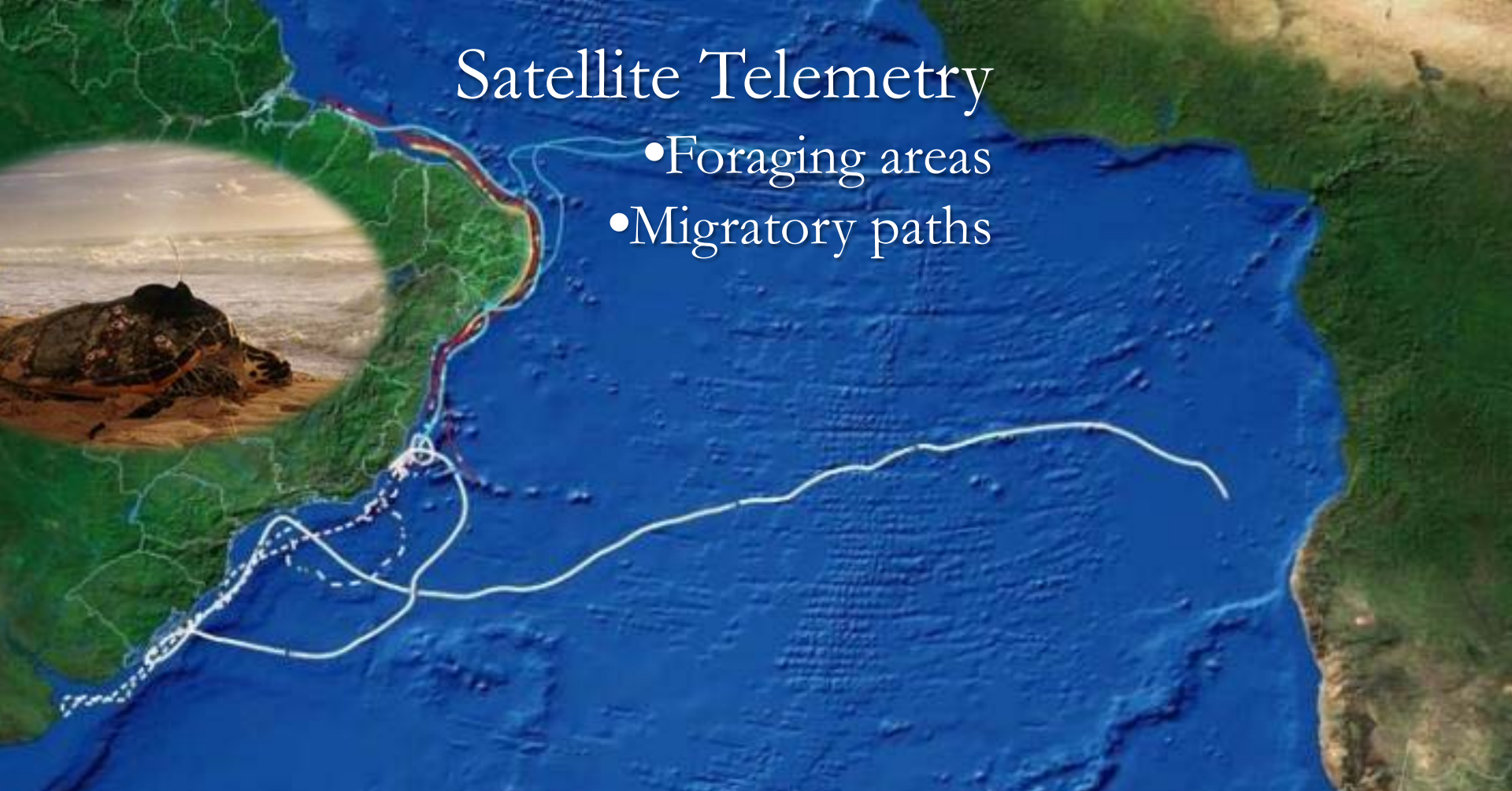
L. olivacea

Mark-recapture program



Satellite Telemetry

- Foraging areas
- Migratory paths



Tartaruga de couro
Leatherback turtle
Tortuga laúd
(*Dermochelys coriacea*)



Tartaruga cabeçuda
Loggerhead turtle
Tortuga caguama
(*Caretta caretta*)



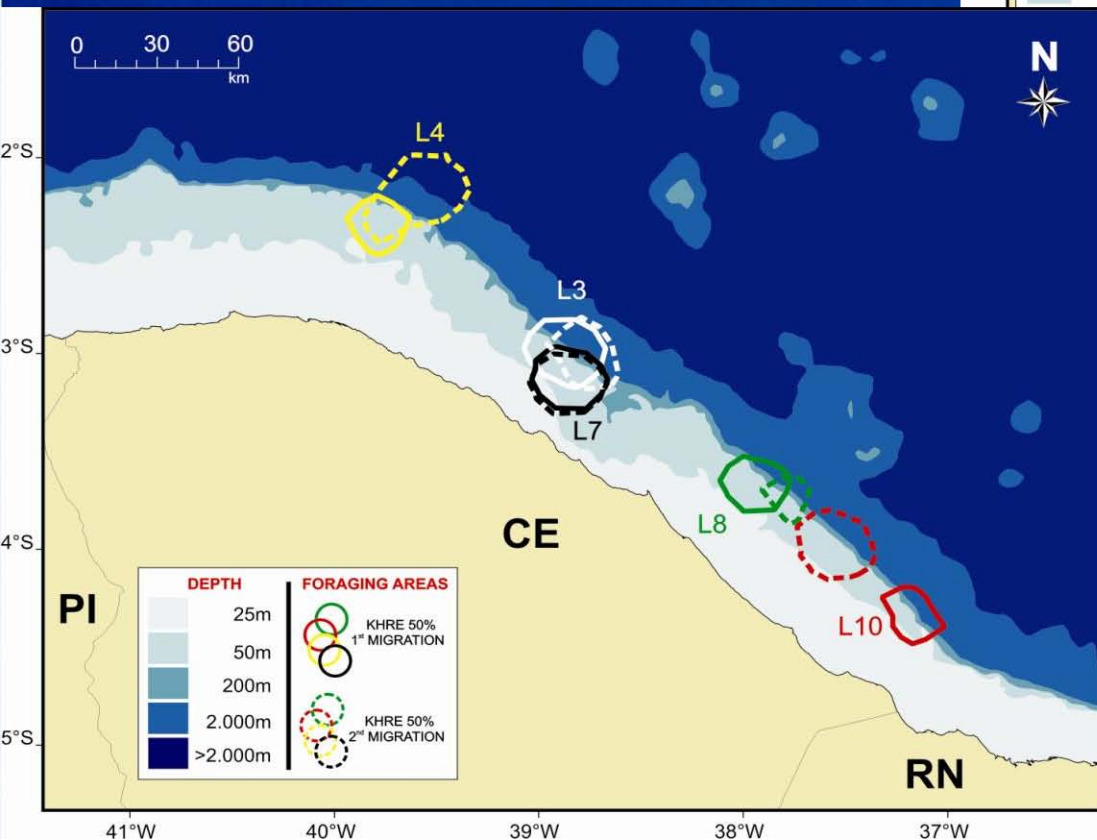
Tartaruga de pente
Hawksbill turtle
Tortuga carey
(*Eretmochelys imbricata*)



Tartaruga oliva
Olive-ridley turtle
Tortuga lora
(*Lepidochelys olivacea*)

Loggerhead Foraging areas

- North & Northeastern Brazil
- Fidelity after subsequent nesting seasons

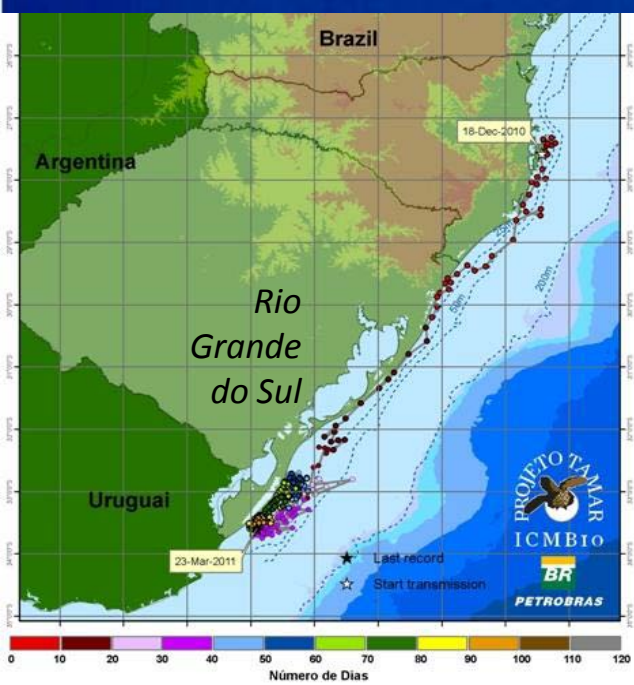


Loggerhead Foraging áreas

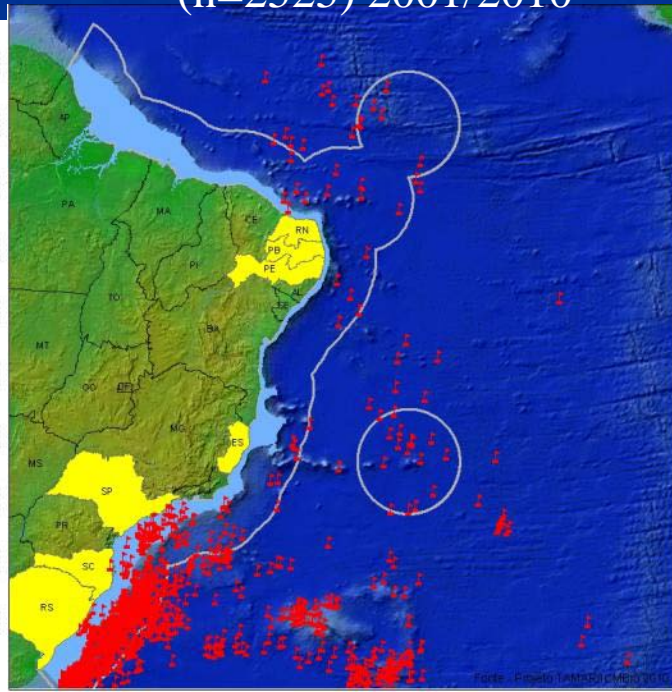
- ✓ Satellite telemetry
- ✓ Mark-recapture (5 last year)
- ✓ Strandings (330 records Cc along– 355km in RS during 2010)
- ✓ Incidental capture (trawls and longliners)

Provide strong evidence about the presence of foraging áreas along the southern coast of Brazil (continental shelf and break)

Satellite telemetry of an adult Cc



Incidental capture records of Cc in longliners (n=2525) 2001/2010



Satellite telemetry of juvenile and sub-adult Cc





SITAMAR

Cadastro de Ocorrência

Sub-base:

Campanha:

Ocorrência Biótico Fotografia Amostra DNA

Número do Registro:

Data ocorrência: Hora: Confiável?

Município:

Praia: Km:

Local:

Observador: Coordenada:

Tipo de registro: Forma: Malha: (Em cm)

Afogada: Origem:

Observação:

Salvar

Excluir

Cancelar

Registro de Ocorrências

Cadastro de Ocorrências

Verificar Ocorrências

Consulta de Ocorrências

Registro de Ocorrências

Registro de Ocorrências

Reprodutivo



All results are published in scientific journals and other media directed to the public in general .
www.tamar30anos.org.br

Conservation Programme based upon community involvement

- ✿ Ecologically sound economic alternatives
- ✿ Social Inclusion
- ✿ Better live standards
- ✿ Capacity Building (Marcovaldi *et al.*, 2005)



PROJETO TAMAR-IBAMA:

Twenty-five Years Protecting Brazilian Sea Turtles Through a Community-Based Conservation Programme

Maria Ângela Marcovaldi,* Victor Patiri,** and João Carlos Thomé***



1300 job opportunities (local communities)
2 T-shirt factories: Regencia - 40 employees / Pirambú - 17 employees
Education Campaigns - " *Not all that is caught by a Net is a Fish*", " *Our waters always clean - Friends of the Sea* "; Tamar Site; / **400,000**
estimated web visitors
13 productive craft groups/ 150 people benefited
13 social and cultural programs / 680 people benefited

Training Programs:

400 fishermen in the field activities
200 trainees / year
60 On board observers
Tamarzinhos (18 children)
Nursery school - 300 children
Ostreiculture



Products, Stores & T-shirt Factory



Raising money for social programs
related to conservation

Visitors Centers



Promote environmental education and public awareness, capacity building and rehabilitation of sea turtles; generate hundreds of jobs and revenue for the region where they operate and serve as a tool for raising funds for conservation

Casco Cabeça - A banda do Tamar

Abertura oficial 30 Anos do Tamar - Nov. 2009 - Praia do Forte



Participação das crianças nos shows da banda Casco Cabeça

Musical Concerts (TAMAR 30 yr celebration)



Obrigada!