



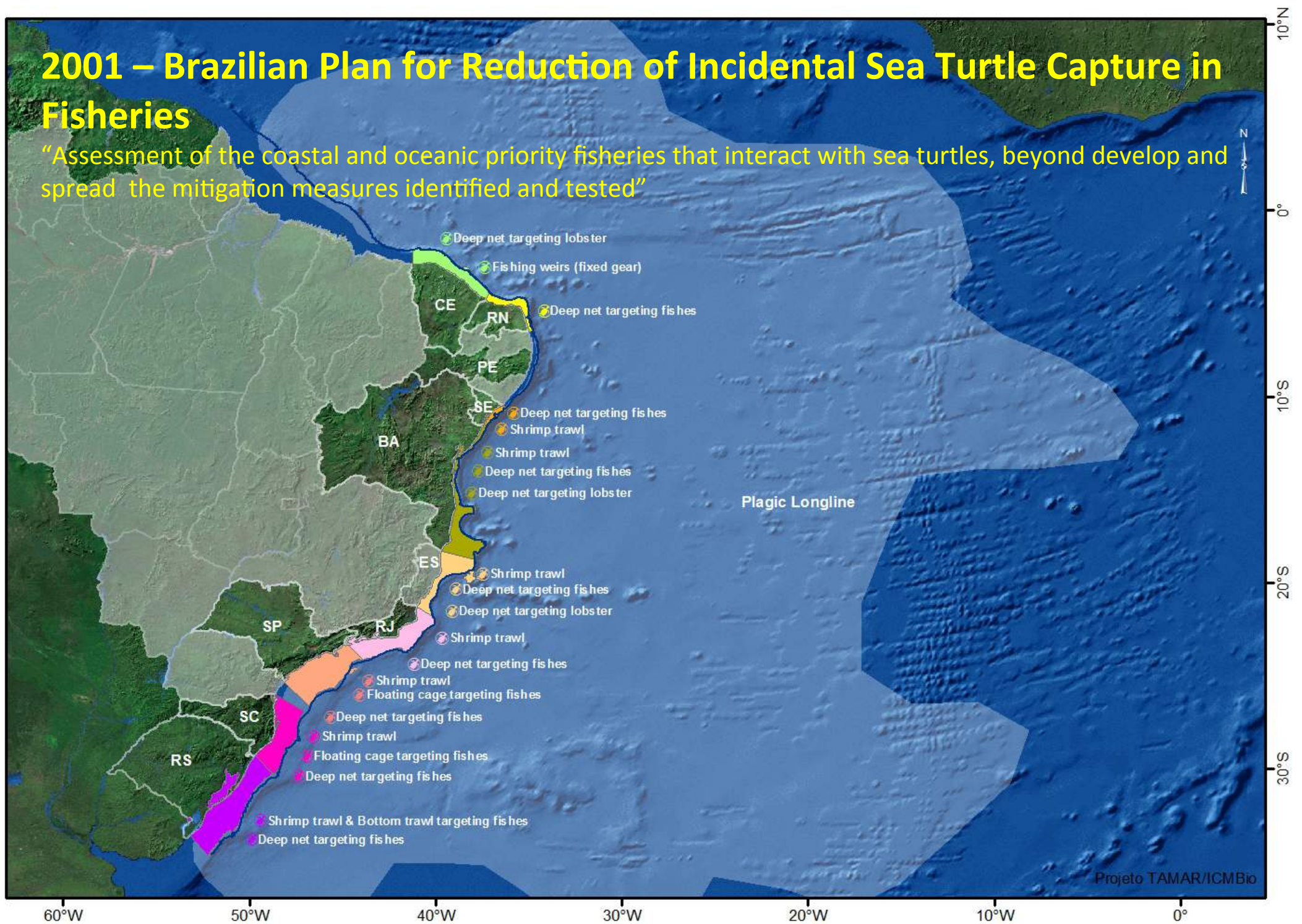
1991 : Establishment of two stations in foraging areas with high coastal fisheries interactions

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

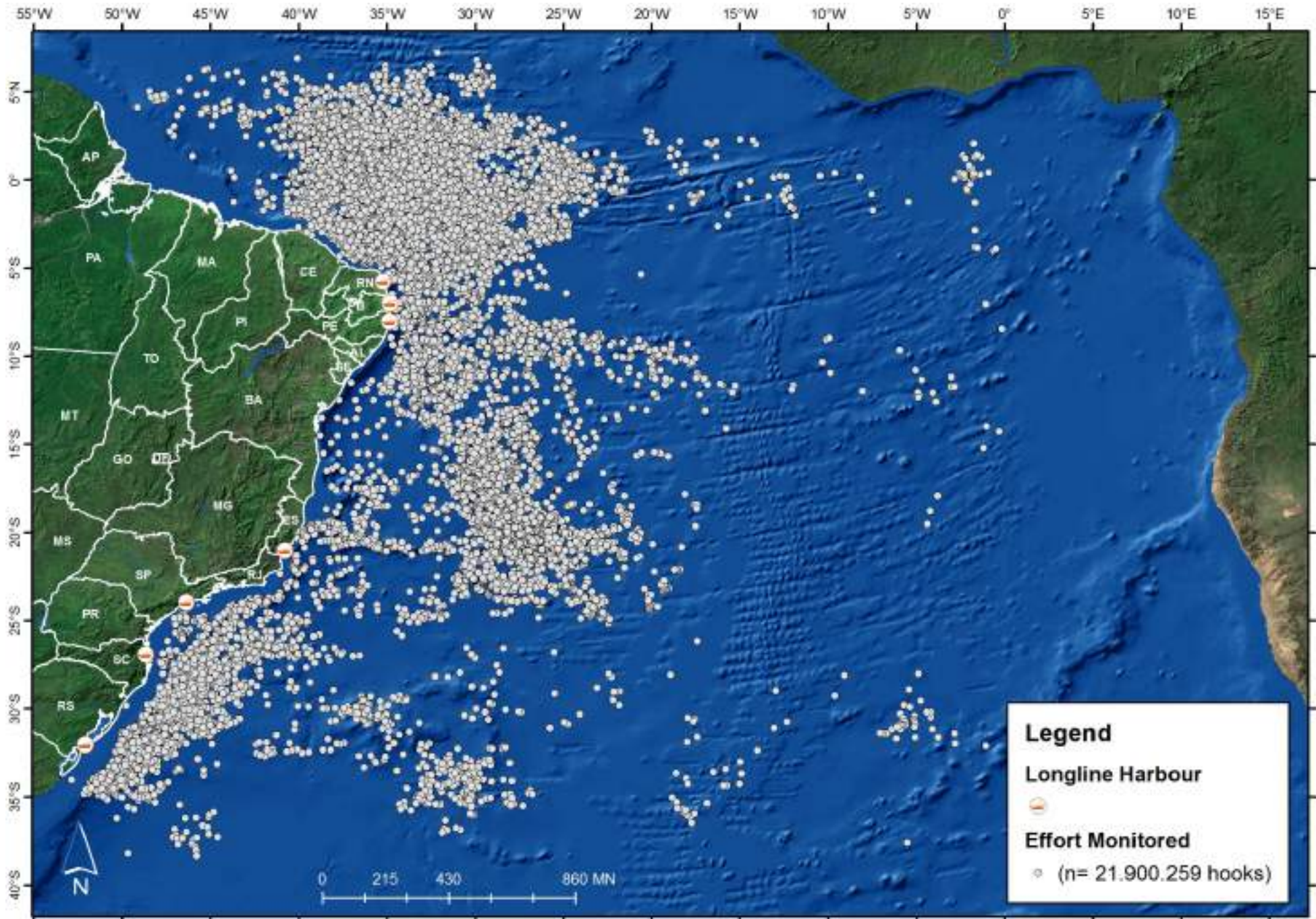


2001 – Brazilian Plan for Reduction of Incidental Sea Turtle Capture in Fisheries

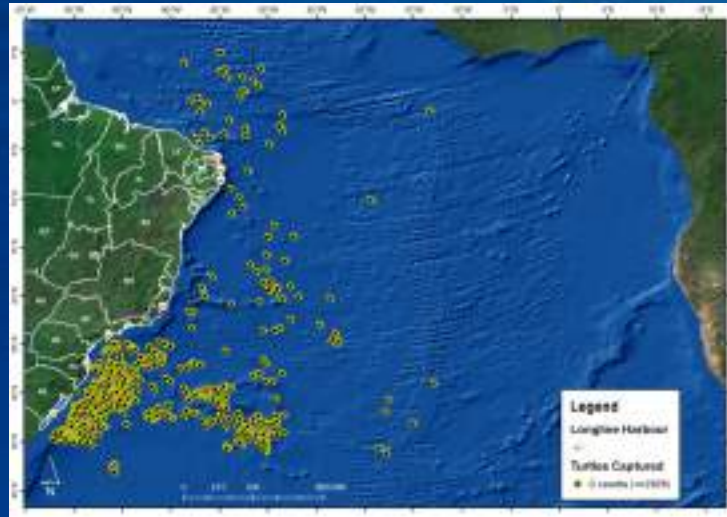
“Assessment of the coastal and oceanic priority fisheries that interact with sea turtles, beyond develop and spread the mitigation measures identified and tested”



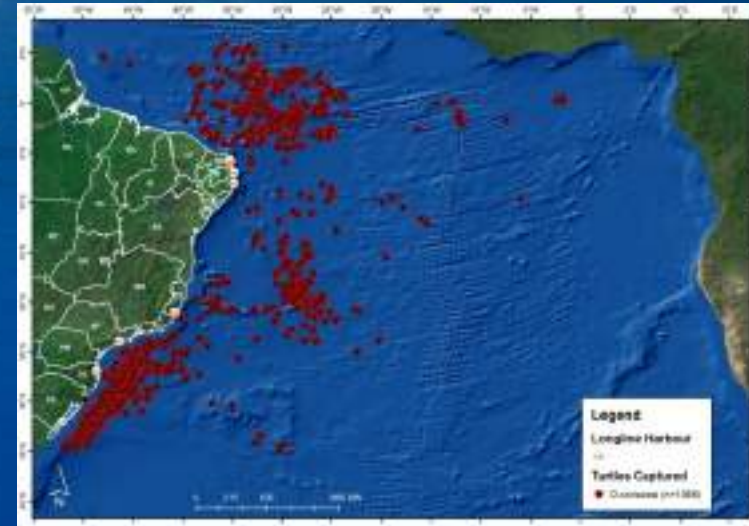
PELAGIC LONGLINE (1999-2013)



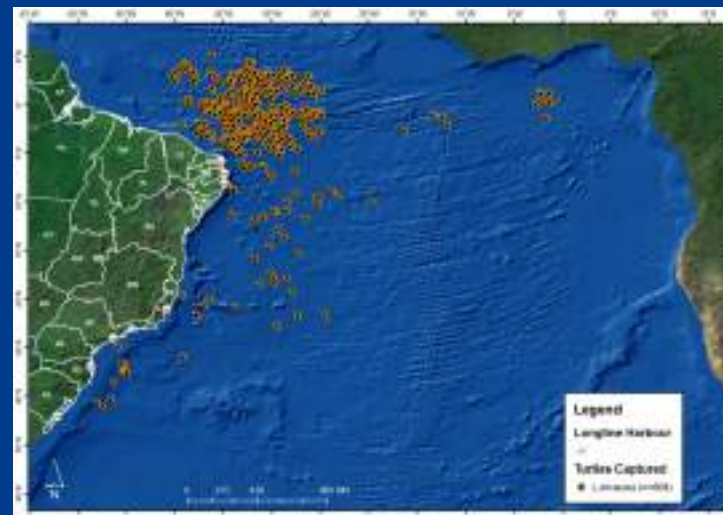
Caretta caretta (1999-2013)



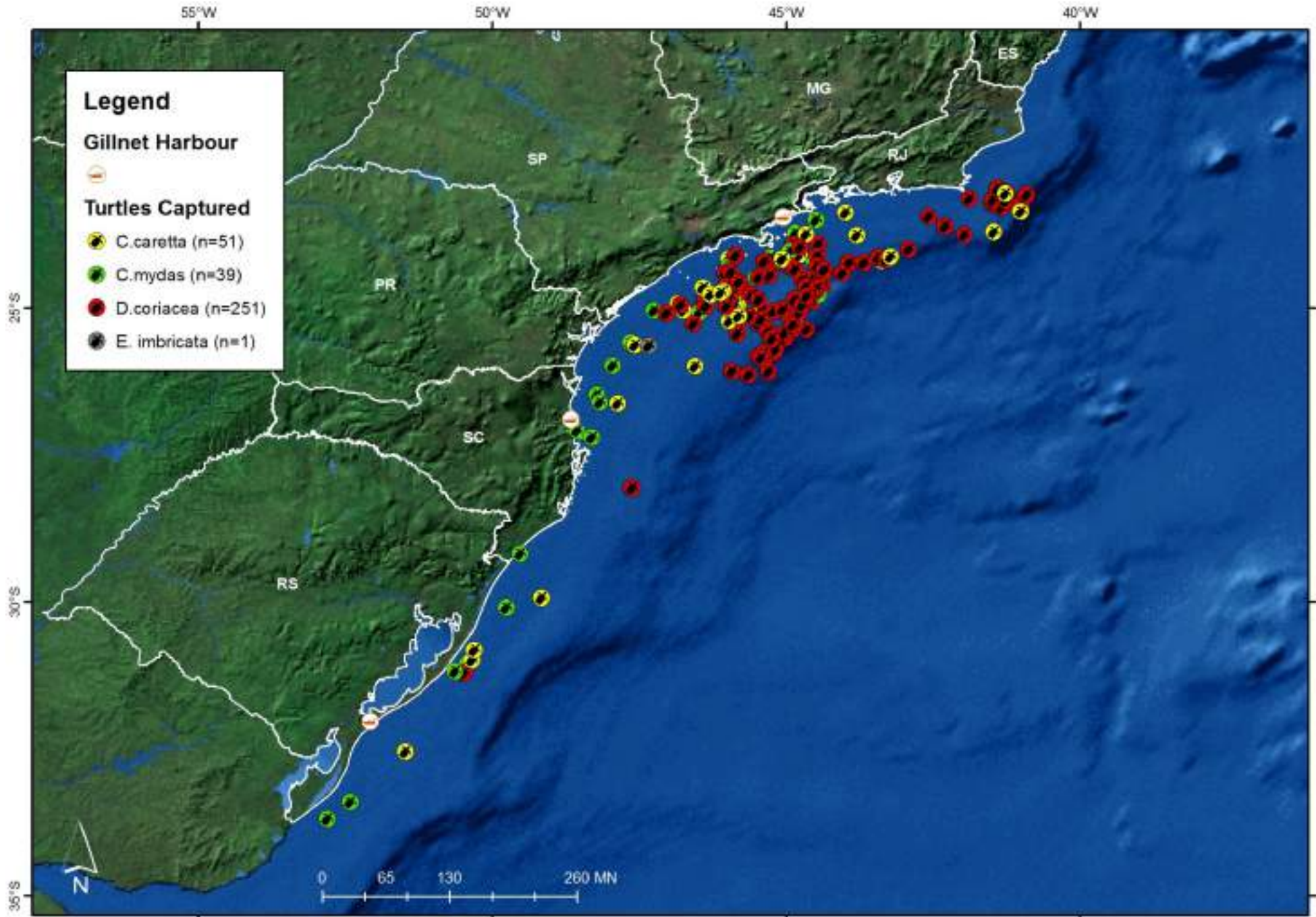
Dermochelys coriacea (1999-2013)



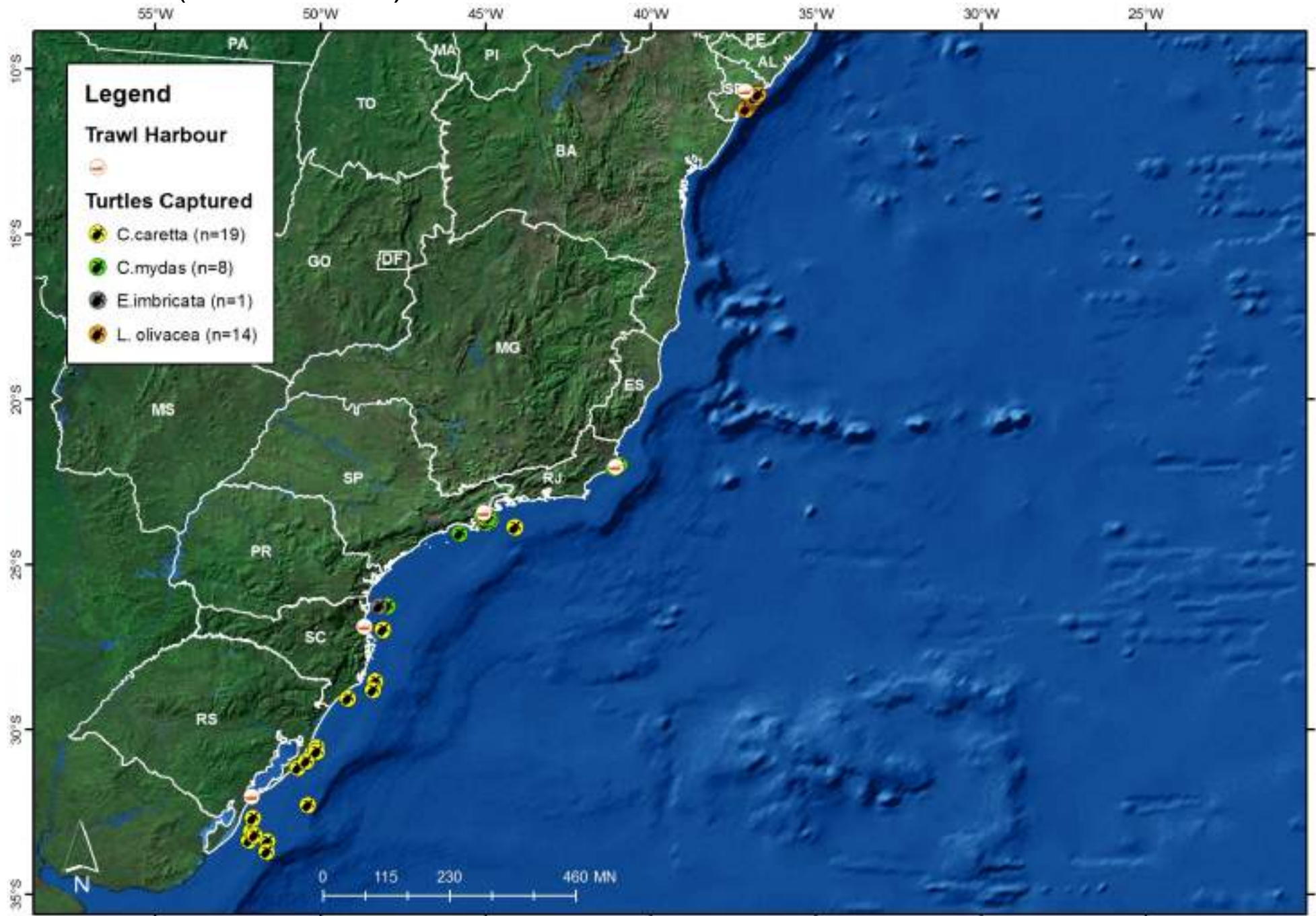
Lepidochelys olivacea (1999-2013)



GILLNETS (2002 – 2011)



TRAWLS (2000 – 2012)

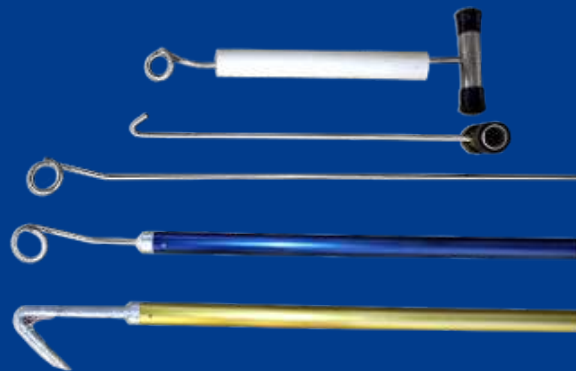


Mitigation Measures

“Assessment of the priority fisheries that interact with sea turtles, beyond develop and spread the mitigation measures identified and tested”

FISHERY	TURTLE SPECIE CAPTURED	BYCATCH AVOIDANCE METHOD	OBLIGATED BY LAW	IN USE
Longline	Cc, Dc, Lo, Cm	Circle hook	No	Partial
		Tools (line cutter/dehooker)	No	Partial
Gillnets	Cm, Cc, Lo, Ei, Dc	Time-area closure	Yes	Partial
Trawls	Lo, Cc, Cm, Ei	Time-area closure	Yes	Yes
		TED	Yes	No

Cc = *Caretta caretta*; Dc = *Dermochelys coriacea*; Lo = *Lepidochelys olivacea*; Cm = *Chelonia mydas*; Ei = *Eretmochelys imbricata*



UPDATE OF STANDARDIZED CATCH RATES OF LOGGERHEAD SEA TURTLES, *CARETTA CARETTA*, CAUGHT BY URUGUAYAN AND BRAZILIAN LONGLINE FLEETS (1998-2010).

Maire Pons^{1,2}, Andrés Domingo¹, Bruno Giffoni¹, Gilberto Sales¹ and Philip Miller^{1,3}

GERMENSALDE, BRUNO B. GIFFONI¹, FERNANDO N. FIEDLER, AENASIO AGUIAR, JOSE E. KOTAR⁴, YONAL SWIMMER⁵ and LEONARDO ORTEGA⁶

Circle hook effectiveness for the mitigation of sea turtle bycatch and capture of target species in a Brazilian pelagic longline fishery

Agencia Conservación Marina e Interiores
Avenida Costas del Atlántico, Puerto de las
Trincheras, Montevideo, Uruguay
www.marineros.gov.uy

CAPTURA INCIDENTAL DE TORTUGAS MARINAS (*Caretta caretta* y *Dermochelys coriacea*) POR LAS FLOTAS DE PALANGRE PELAGICO DE BRASIL Y URUGUAY

Bruno Giffoni¹, Andrés Domingo¹, Gilberto Sales¹, Felipe Pons^{1,2}, Philip Miller^{1,3}, Nilson de O. Junior⁴, Mariana de K. e Brito⁵, Luiz R. Macagnolo⁶

INTERACCIÓN DE TORTUGAS MARINAS (*Caretta caretta* y *Dermochelys coriacea*) CON LA PESCA DE PALANGRE PELAGICO EN EL ATLANTICO SUDOCIDENTAL: UNA PERSPECTIVA REGIONAL PARA LA CONSERVACION

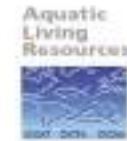
Bruno Giffoni¹, Andrés Domingo¹, Gilberto Sales¹, Fernando Niemeyer Fiedler¹, Philip Miller¹

SCRS/2006/134 Col. Vol. Sci. Pap. ICCAT, 60(6): 2094-2109 (2007)

DISTRIBUCIÓN Y COMPOSICIÓN DE TALLAS DE LAS TORTUGAS MARINAS (*CARETTA CARETTA* Y *DERMOCHELYS CORIACEA*) QUE INTERACTUAN CON EL PALANGRE PELAGICO EN EL ATLANTICO SUR

Milagros López-Muñoz¹, Gilberto Sales¹, Bruno Giffoni¹, Philip Miller¹, Fernando Niemeyer Fiedler¹ and Andrés Domingo¹

Aquatic Living Resources
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DOI: 10.1016/j.aqures.2011.08.001
www.elsevier.com/locate/aqures



Standardization of CPUE of loggerhead sea turtle (*Caretta caretta*) caught by pelagic longliners in the Southwestern Atlantic Ocean

Maire Pons^{1,2}, Andrés Domingo^{1,3,4}, Gilberto Sales¹, Fernando Niemeyer Fiedler¹, Philip Miller^{1,3}, Bruno Giffoni¹ and Marcelo Ortiz⁵

SCRS/2012/087
ESTIMATING TOTAL BY-CATCH OF LOGGERHEAD SEA TURTLES (*CARETTA CARETTA*) IN THE SOUTHWESTERN ATLANTIC OCEAN
Maire Pons^{1,2}, Philip Miller^{1,3}, Bruno Giffoni¹, Andrés Domingo¹ and Gilberto Sales¹

Vol. 476, pp. 258-266, 2012
doi:10.1016/j.fishres.2012.02.002

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Published April 11

High-use areas, seasonal movements and dive patterns of juvenile loggerhead sea turtles in the Southwestern Atlantic Ocean

Caren Barceló^{1,2,3,4,5}, Andrés Domingo¹, Philip Miller¹, Leonardo Ortega², Bruno Giffoni¹, Gilberto Sales¹, Liamne McNaughton⁶, Maria Marcovaldi¹, Selina S. Heppell¹, Yonal Swimmer⁸

Journal of the Marine Biological Association of the United Kingdom, vol. 92, pp. 113-126. © 2012 Marine Biological Association of the United Kingdom
doi:10.1017/S0025315311012622-0

Incidental catch of sea turtles by the Brazilian pelagic longline fishery

GILBERTO SALES¹, BRUNO B. GIFFONI² AND PAULO C.R. BARATA³

Biodiversity Conservation (2012), pp. 1-11
DOI: 10.1007/s10531-012-0227-0

ORIGINAL PAPER

Driftnet fishery threatens sea turtles in the Atlantic Ocean

Fernando N. Fiedler¹, Gilberto Sales¹, Bruno B. Giffoni¹, Emigdio L. A. Monteiro-Filho¹, Eduardo R. Secchi¹, Leandro Biagioni

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

Maria Angela Marcovaldi¹, Gilberto Sales¹, João C. A. Thoner², Angélica C. C. Dias da Silva¹, Brenner M.

G. Giffoni¹, Eduardo R. S. M. Lima¹, Eric F. Lima¹, Charles Griffin³

Hydrobiol. 2012, 684:1-11. doi:10.1007/s12038-012-9818-8

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ScienceDirect
Fisheries Research 111 (2012) 21-24



Potential bycatch of seabirds and turtles in hook-and-line fisheries of the Itaipava Fleet, Brazil
Leandro Biagioni^{1,2,3,4}, Tatiana S. Neves⁵, Nilson O. Leite Jr.⁶, Donatino Carvalho¹, Gilberto Sales¹, Roberto W. Frazzetta¹, Carlos E. Stein¹, Fabiano V. Peppers¹, Bruno B. Giffoni¹, Danielle S. Monteiro¹

SCRS/2011/068 Collect. Vol. Sci. Pap. ICCAT, 68(5): 1763-1768 (2012)

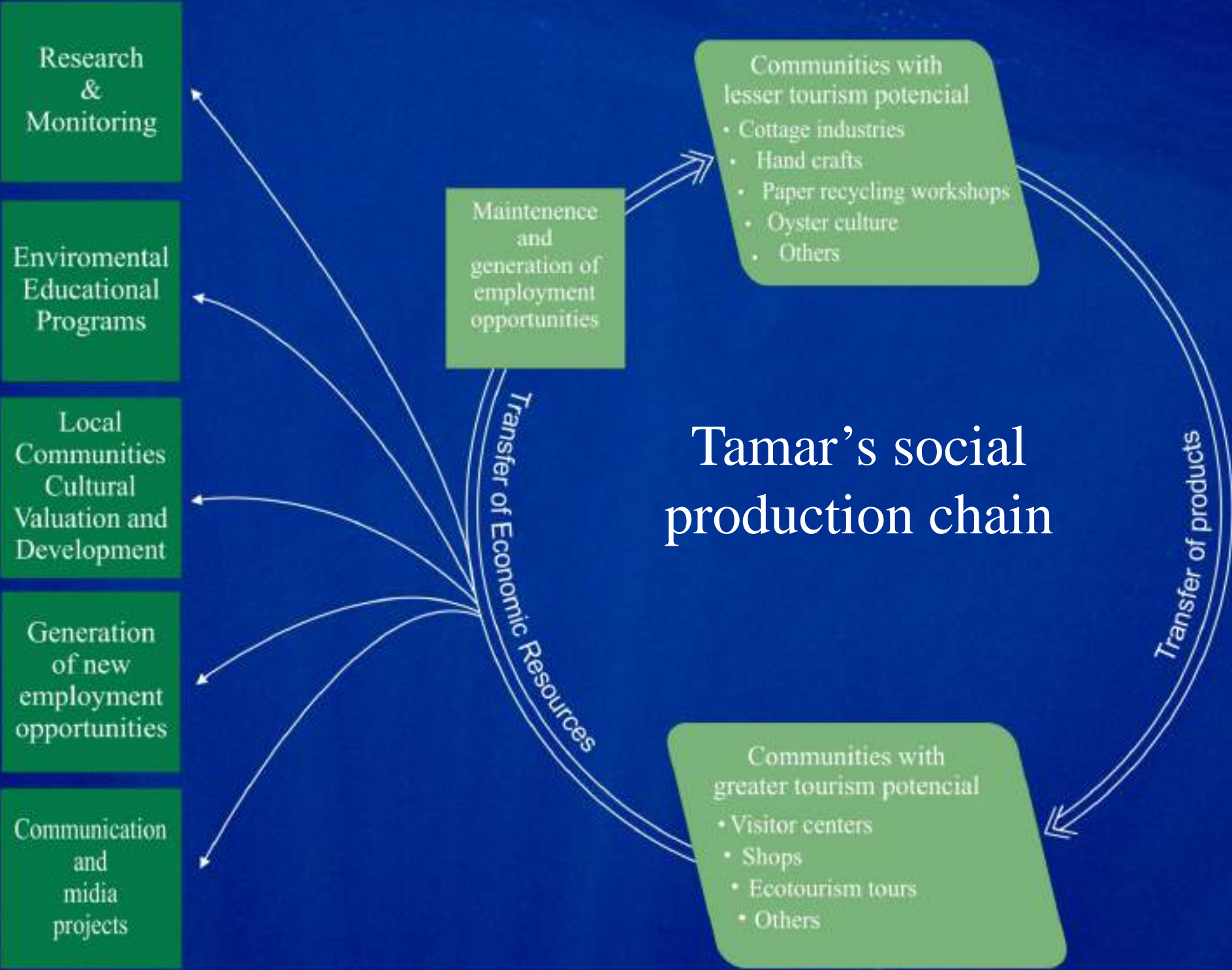
REVIEW OF ACTIONS BY BRAZIL IN MEETING THE BYC RECOMMENDATION 10-09 AND THE FAO GUIDELINES TO REDUCE SEA TURTLE MORTALITY IN FISHING OPERATIONS

Nilson de Oliveira Leite, Jr.¹, Bruno Giffoni¹, Fernando Niemeyer Fiedler¹, Gilberto Sales¹

Current Threats (2012)

- 
- **Longline** -> Leatherbacks (foraging) juv and adults (Domingo et al. 2006, Sales et al. 2008, Bugoni et al. 2010)
 - **Longline** -> Loggerheads (foraging) juv and adults (Domingo et al. 2006, Sales et al. 2008, Pons et al. 2010)
 - **Trawl fishery (shrimp)** in SE -> Lo (breeding) (Silva et al. 2010)
 - **Trawl fishery (finfish)** in RS and R. de la Plata -> Cc (foraging) (Monteiro 2004, Miller et al. 2006)
 - **Gillnets** along the coast -> greens (foraging) (Gallo et al. 2006, Marcovaldi et al. 2009, Lezama 2009, Lima et al. 2010, Gonzales-Carman et al. 2012, Rivas 2012)
 - **Gillnets** in ES (breeding)/Rio de la Plata (foraging) -> Dc (Fiedler et al. 2012, Perez & Wharlich, 2005, Vélez-Rubio, G. 2011, Gonzales-Carman et al. 2012)
 - **Coastal Development** (light pollution, beach use, dredging, ports) - main nesting beaches SE/NE coast of Brazil -> Cc, Dc, Lo, Ei adults and hatchlings (Revista Biodiversidade Brasileira 2011)
 - **Coastal Development** (dredging, ports) in Uruguay -> Cm juv
 - **Pollution** (marine litter) in R. de la Plata and South Brazil -> Cm juv (Baptistotte et al. In press, Murman 2011)

Tamar's social production chain



Social involvement and community outreach

1. Generation of employment opportunities
 - 1,300 people
2. Environmental education and awareness
 - 1,430,000 people/ year
3. Capacity building
 - 1,000 people/ year



“tartarugueiros”



Oyster culture

Job opportunities



Productive craft groups (lace, embroideries, aromatic cushions, etc.)



Productive groups involving fishermen families



Paper Recycling Workshop



T-shirt factories

Stores

