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BYCATCH OF SEA TURTLES IN SURINAME AND GUYANA: SEEKING SOLUTIONS THROUGH GEAR TECHNOLOGY, FISHERIES MANAGEMENT AND FISHER EDUCATION.

WWF Guianas

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Guianas Marine Conservation Targets

- Marine Turtles: with priority on the conservation of representative populations of marine turtles nesting in the region.
- Fisheries: focused on sustainable tropical shrimp fisheries utilizing ecosystem based management (EBM) approaches.





Major Threats, Drivers & Challenges to Marine Turtle Conservation



Bycatch in Fisheries (from gill net and fish trawling)

 Threats to Habitat (coastal development, marine pollution, seismic exploration, light pollution and Climate Change, including impacts on nests, turtles and nesting sites)

Direct Exploitation (local consumption, predation)





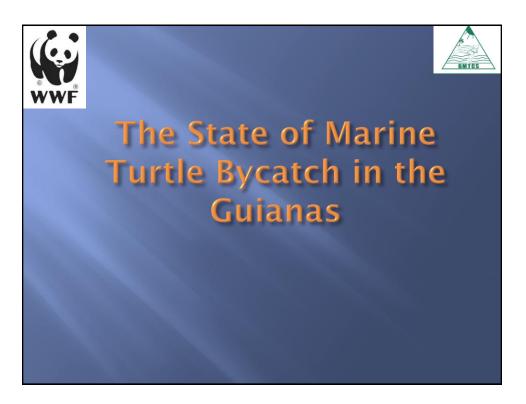






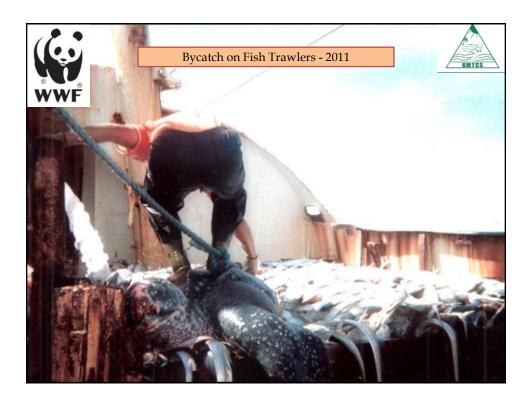


The In-board powered or closed type boats have an average size of 55' to 65' by 11' by 9'(18m by 3.3m by 2.72m). Powered by 125-150 engines. They are decked, have a cabin and builtin ice box with a capacity of approx. 5 ton ice.

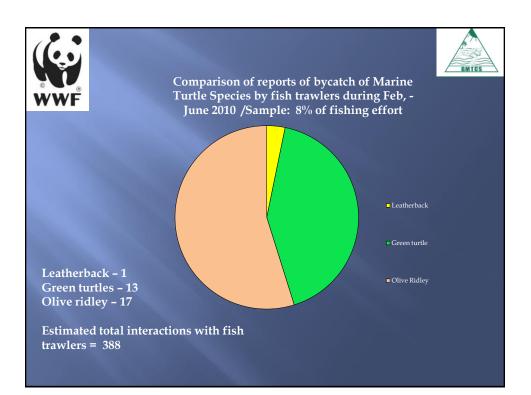




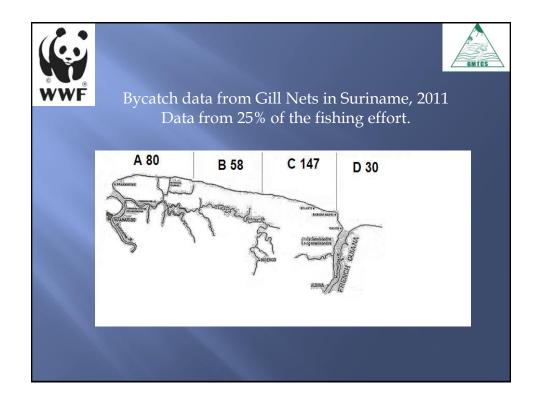








WWF	NUMBER OF TURTLES REPORTED CAUGHT IN GILL NETS PER LOCATION 2012										
	Month	А	В	с	D	Total					
	Feb		3								
	March			6							
	April	1			2						
100	May	21	13	22	7	63					
The Party of	June	31	23	48	3	105					
	July	18	13	46	16	93					
	August	9	6	21	2	38					
	Sept 15	-	-	4	-						
	Total	80	58	147	30	315					



Estimated total capture of marine turtles in the Suriname gill net fishery, nesting season 2011 (data also available for 2006 & 2010)									
	Month	No. of boats interviewed		Total number of boats	Total turtles caught	% Fleet sampled	Est. total turtles caught		
		open	decked						
	January	108	11	119	22	39	56		
	February	90	37	127	26	42	62		
	March	121	39	160	117	53	221		
	April	119	19	138	95	45	211		
	May	80	39	119	84	39	215		
	June	154	45	199	115	65	177		
	July	170	46	216	65	71	92		
	August	148	41	189	29	62	47		
	September	96	33	129	13	42	31		
	Total	1086	310				1112		





Main Activities: Fisheries Bycatch

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- Participation in regional and international fisheries management meetings, to identify sustainable fishing technologies.
- Conducting of, in collaboration with National Organizations / DOF, gear technology research.
- Implementation of **incentive measures** to secure **fisher interest** in participating in research on and offshore.
- Organization of consultations to enable fishers' involvement in research and adoption of new gears/ methodology.
- Hosting of regional exchanges to maximize information dissemination and sharing of data.





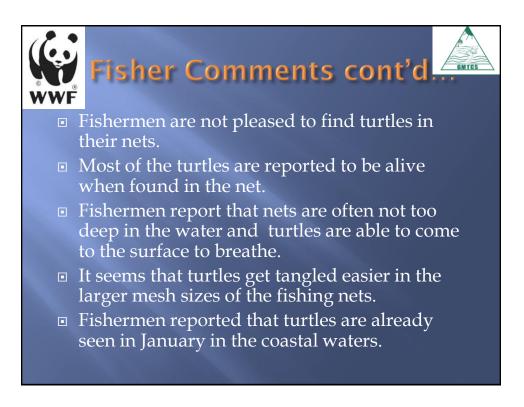




Fisher consultations (Guyana and Suriname) Some points.....



- Not all fishermen participated and provided data.
- The fish trawlers as well as the coastal fishermen are afraid of repercussions if they give info on bycatch.
- Fishermen fear that their sole source of livelihood may be restricted or banned if WWF or the DOFs feel that bycatch rates are too high, and propose time or spatial closures.





Fisher Feedback

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For the Gillnets Boats.

- When the fishermen are retrieving the net and find a turtle caught in the net, they bring the net alongside the boat.
- Because of the weight of the turtle they cannot lift it into the boat and have to cut the net around the turtle to release it.
- As a consequence of the above, fishing nets are often damaged.
- No-one receives compensation for damaged nets and other fish gear.



Fisher Recommendations Feb 2012

- Gill netters are concerned about the large number of illegal fishing boats and pirates in the Guianas' waters. They need the DOF to address this in order to reduce over fishing.
- Until such time fishers are too concerned about their personal safety and the security of the boats and engines, to entertain consideration to reduce fishing effort.
- Illegal fishermen will continue to exploit fish resources without constraints, hence registered fishermen fear that gill nets may continue to be lengthened.

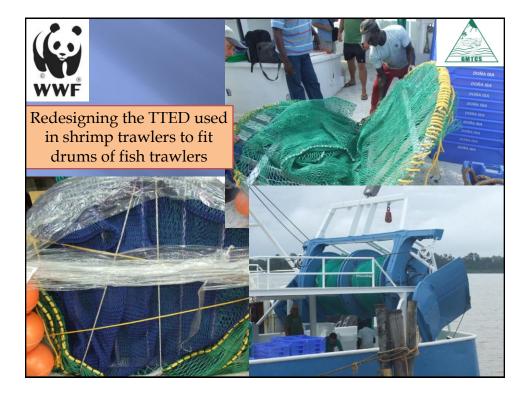


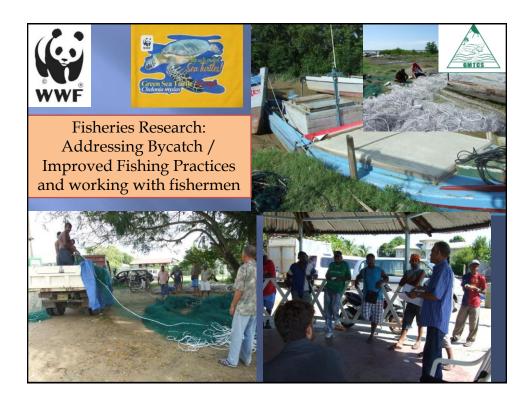
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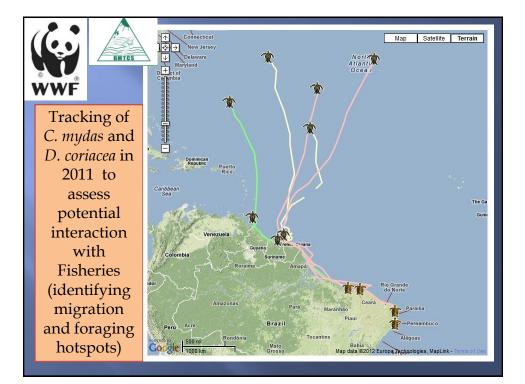


Seeking solutions through research adjusting net design and reducing net length









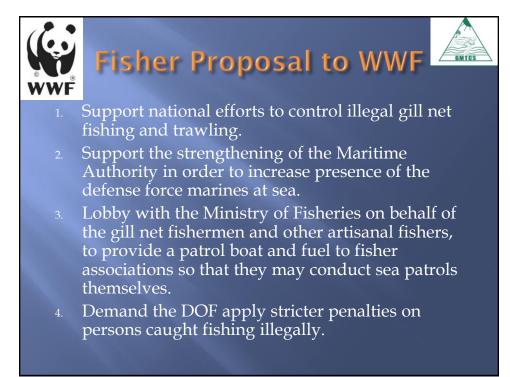




Results from Surveys and Research 2011

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- Adjusted gill nets (shorter and with escape gaps) caught significantly fewer fish than the normal nets.
- The flexible TED did not catch turtles but fishermen insist that fewer fish were caught. Fish trawlers request repeated testing, and preferably with another flexible TED design.
- Data collection in Guyana suggests that less than 20 turtles are caught annually in fish gear. However, there is a high chance that this data is well below actual figures.





Fisher Proposal to WWF cont'd

- 1. Provide assistance to the DOF so that it may seek to secure retirement benefits for fishermen who wish to retire and move out of gill net fishing.
- 2. Lobby to increase fish prices on domestic and international markets, reducing the need for fishers to over-exploit fragile fish stocks.
- 3. Support artisanal fishers in their quest to ban fish trawling which is reported to be devastating inshore fish resources.
- 4. Discuss the benefits of putting a moratorium on the issuing of fish permits (especially in Suriname).

