















- Listed in Schedule 1 of Indian Wildlife (Protection) Act, 1972 – maximum protection
- Orissa Marine Fishing Regulation Act (1982) and Rules (1983) prohibits all mechanised fishing within 5 km of
- Gahirmatha Marine Sanctuary (1997) prohibits all mechanised fishing within 20 km of Gahirmatha coast (35 km)
- OMFRA (1997) prohibits mechanised fishing within 20 km of coast in Devi River mouth and Rushikulya from January to May.
- Central Empowered Committee (of Supreme Court) (2003) recommends banning of gill net boats within 5 km of the three mass nesting beaches for three months.





What the turtle biologists say:

- Reduce mortality
- · Protect the reproductive patches
- Reproductive patches may vary in time, both within and between nesting seasons
- Monitor the nesting populations closely
- · Census mass nesting accurately
- Research on fishery related mortality what proportion of turtles strand ?













What the traditional fishworkers say:

- · Voluntary ban on use of certain gears
- Compensation and financial assistance for gear modification
- Stop prawn seedling collection and intensive aquaculture
- Strict implementation of the 5 km ban on all trawlers
- Traditional fishworkers to be made partners in conservation turtle monitoring committees
- · Formation of community reserves





Reduce mortality

- Protect the reproductive patches
- · Enforce the existing laws
- Improve enforcement by improving capacity and infrastructure of local enforcement agencies including Forest and Fisheries Departments, with help from Police and Coast Guard

What the CEC says:

· Buy more boats and guns











What the Forest Department says:

- Lack of infrastructure
- Lack of coordination between agencies, including Fisheries Department, Indian Coast Guard
- Declare Rushikulya and Devi River mouth as protected areas



What fisheries NGOs say:

- - Strict implementation of the 5-km near-shore 'non-mechanized fishing zone'
 Protection of reproductive patches
 - Protection of reproductive patchesRegulating/banning the use of certain gear
 - Compensation for livelihood opportunities foregone



- · Defining rights of safe passage
- Use of VMS and GPS for better implementation and enforcement



What has gone wrong

- Lack of implementation of existing laws and regulations
 - Lack of capacity in enforcement agencies
 - Lack of clarity for stakeholders about regulations
 - Lack of dialogue between stakeholders inadequate coordination between enforcement agencies (Fisheries and Forest Department, Coast Guard) and insufficient communication with fishing communities (Artisanal, Gill netters with outboard motors, Mechanised trawlers)
- No stakeholder participation in design of management
- Lack of appropriate monitoring and evaluation protocols



Potential mitigation measures



- Review of management measures (time area closures) in consultation with various stakeholders
- No fishing zones to be determined by monitoring reproductive patches of turtles
- VMS and GPS for monitoring gill netters and trawlers
- Awareness programs for fishing communities to comply with no fishing zones.
- Establishment of monitoring and evaluation by independent research agencies in collaboration with local Forest and Fisheries Departments and NGOs
- · Control of development near the mass nesting beaches





Immediate needs



Fisheries

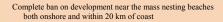


Review and clarifications of all management measures time area closures

Definition of No Fishing Zones near mass nesting areas Consultation with stakeholders



Development





Long Term Solutions



> Participation of local fishing communities in the conservation programmes



> Involvement of fisheries departments in designing and implementing sustainable harvesting strategies and promoting the use of TEDs



> Formulation of strategies that can protect the turtle along the entire coast rather than within designated sanctuaries





Towards a new philosophy of sea turtle conservation in Orissa

Compliance rather than enforcement

- · Self regulation by the fishing community
- · Involvement of sea turtle community in monitoring distributions of sea turtles
- Definitions of No Fishing Zones in dynamic terms during the course of the season
- Independent monitoring and evaluation of indicators of success



Towards fair zoning of fisheries to protect artisanal fishers, fish stocks and sea turtles

- · No restrictions on traditional fishing methods • Ban on certain types of gill nets
- New zoning regulations (table below)
- · Rights of safe passage for fishers







A	Recommendations for revised zoning – time area closures				
	Type of vessel	Detail	Area	Distance	Time
A SERVICE CO	Trawler	Large	Entire coast	10 km	Year round
		Small	Entire coast NFZ	5 km 10 km	Year round Nov – April
all 1	IBM Gill netter	Multifilament	Entire coast NFZ	5 km	Year round Nov – April
			NFZ	10 KM	Nov – Aprii
THE WAR	IBM Gill netter	Monofilament	NFZ	10 km	Nov – April
	OBM Gill netter	> 15 HP engine	NFZ	10 km	Nov – April
	OBM Gill netter	< 15 HP engine	NFZ	5 km	Mass nesting
11.3	No motorisation		NFZ	5 km	Mass nesting



Towards better monitoring of sea turtle populations and fishing

- VMS / GPS for gill netters and trawl vessels
- Monitoring by independent agencies of sea turtle nesting and mortality in collaboration with local Forest and Fisheries Departments and NGOs





Hopeless cause or cause for hope?

- Silas (1984) to Pandav (1998) to Shanker (2004) same old story
- Was the Hype and hysteria useful?
- Can anything be changed?
- What ? How ?
- Time for negotiation?

