Conservation of leatherback turtles in the Andaman and Nicobar Islands and the Northern Indian Ocean





TAG and Data Portal





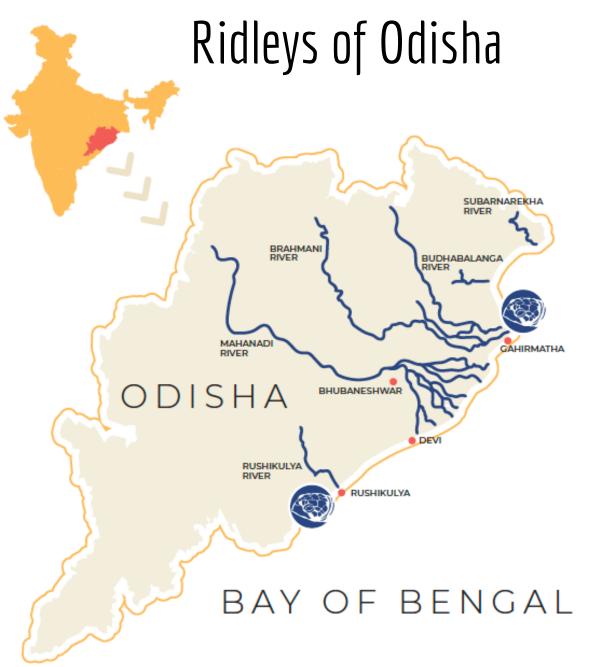
Sea Turtles of India | Data Portal

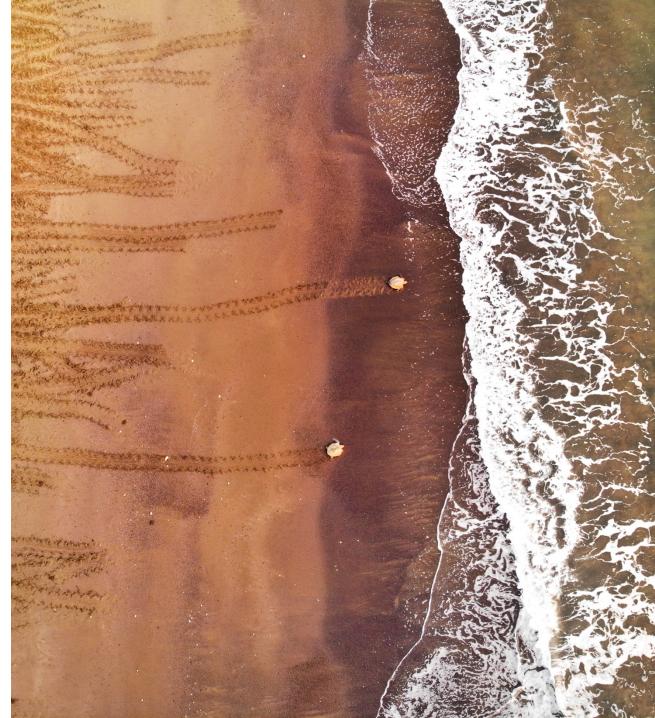
Home

Welcome!

Welcome to the Sea Turtles of India | Data Portal! You have successfully logged in. Please choose the appropriate form to fill/view data.

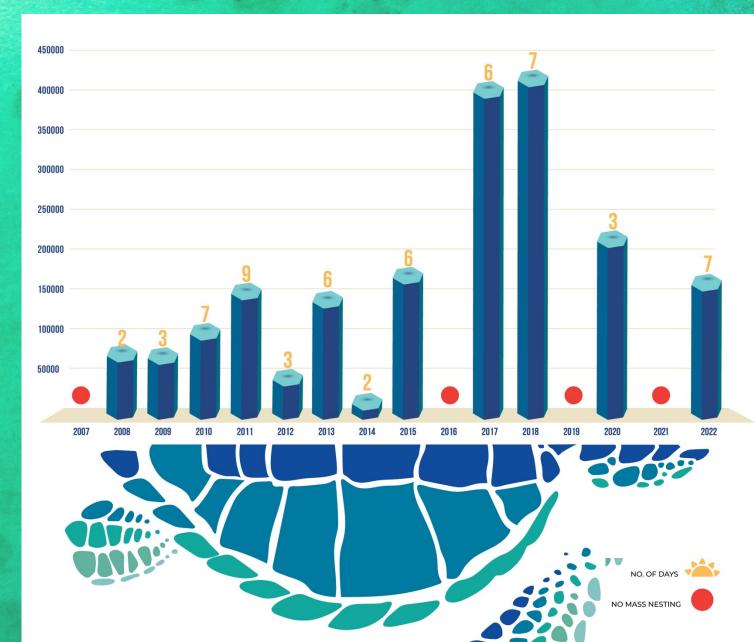
- 1. Preliminary Data Sheets (Independant datasheets):
 - Beach Profile Data
 - General profile of beach and it's properties
 - Turtle Mortality Data
 - Enter data if dead Turtle was encountered
- 2. Secondary Data sheets (For nest encountered):
 - o Enter Turtle Encounter Data
 - Enter data if live Turtle was encountered first (Nest id is generated if turtle is nesting and entry is automatically made in nest encounter data)
 - · Enter Nest Encounter Data
 - Enter data if Nest was encountered first (Enter first only if turtle wasn't encountered) Hatchery id generated if nest found in hatchery.



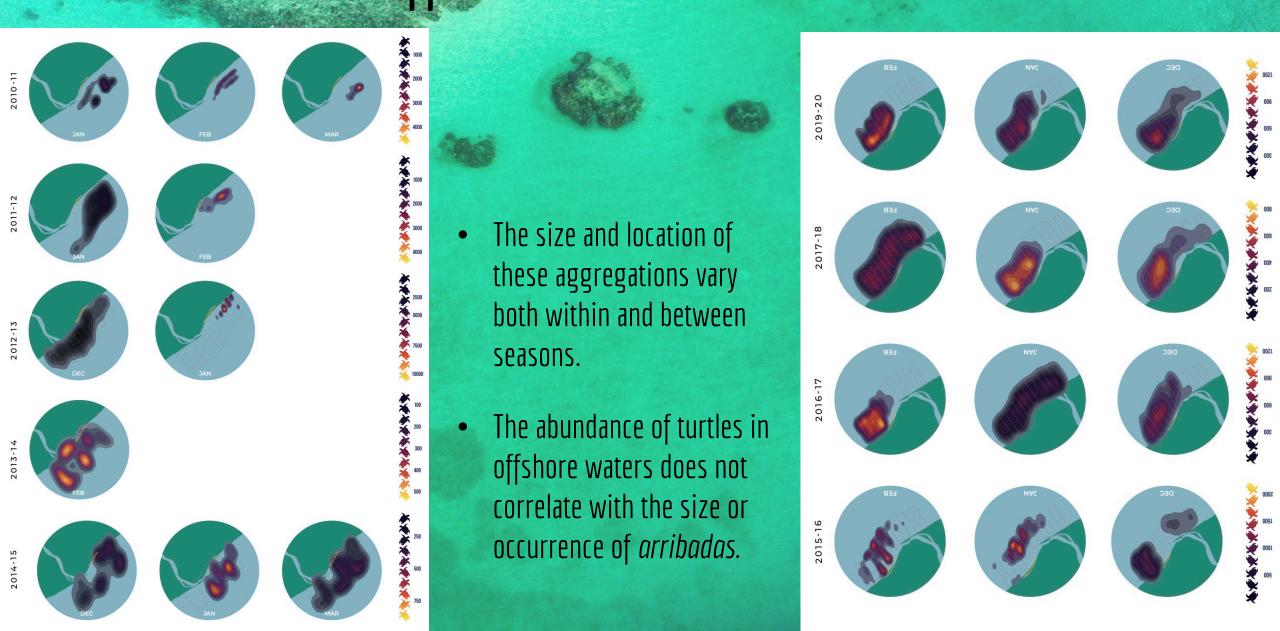


Mass Nesting Population Estimates

- Mass nesting occurs on a 4 km beach stretch extending north of the river mouth.
- Arribadas have occurred every year in Rushikulya since 2004 except in 2007, 2016, 2019, and 2021.
- There were two mass nesting events in 2018 that occurred two months apart.

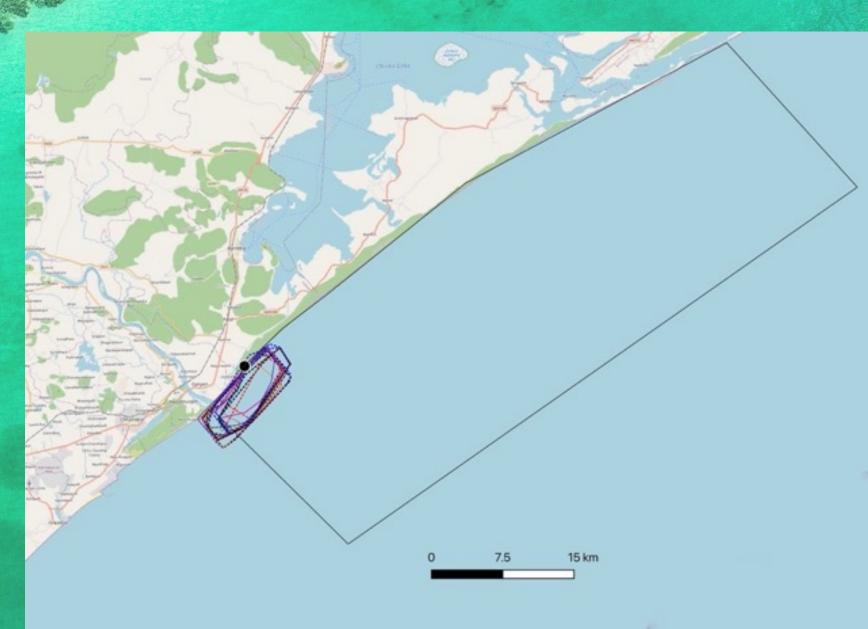


Offshore Distributions



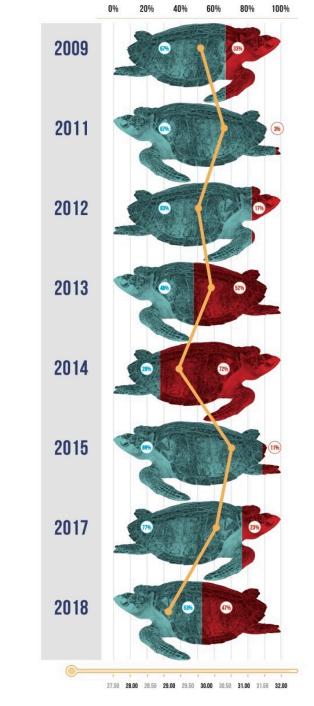
Offshore Distributions

 The main aggregations form a very small part of the total designated no-fishing zone, which suggests that these zones need to be rationalised for more efficient protection of turtles with minimal impacts on smallscale fishing.





- Histological analysis revealed that the sex ratios are skewed towards females.
- The hatchling sex ratios at Rushikulya were found to be 65% female on average.
- While some years had extremely female-biased sex ratios due to the high nest temperatures, a few years produced heavily male-biased sex ratios.



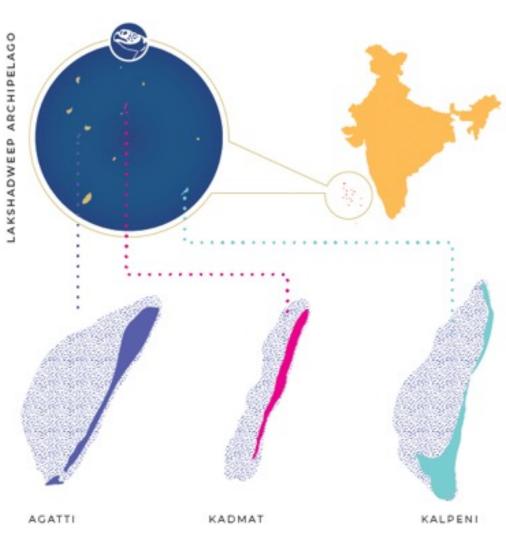
SEX RATIO

AND NEST

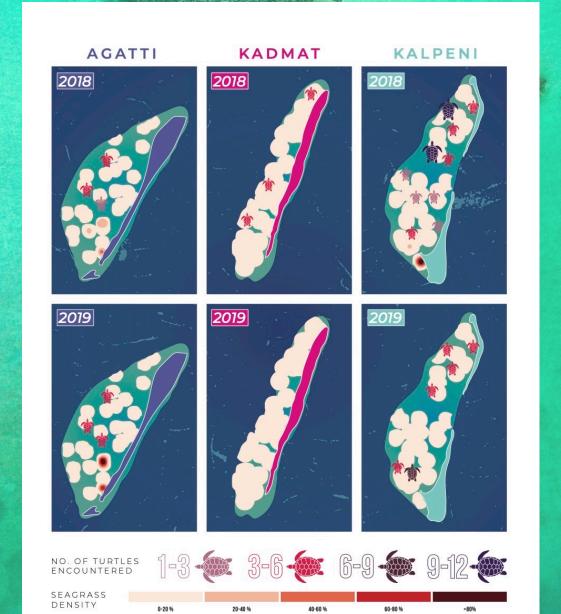
TEMPRATURES

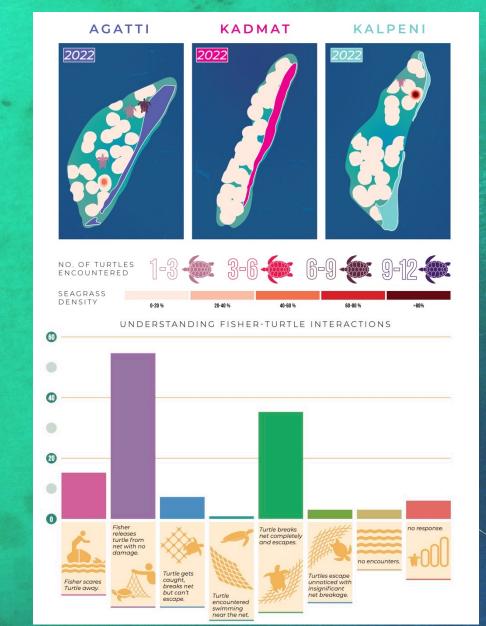
Green Turtles of Lakshadweep Islands





Green Turtle Densities, Seagrass and Conflict





Leatherbacks of the Andaman and Nicobar Islands



Satish Bhaskar: The Turtle Man



Satish Bhasker, a pioneer in sea turtle biology and conservation in India

Visited majority of the islands in the archipelago between 1978 and 1995

Many of the nesting beaches he surveyed are now recognised as important sites for protection

Galathea: 2000-2004





Objectives

Research and Monitoring

- Beach monitoring, tagging and nest protection at critical nesting sites
- Post-tsunami status of other sea turtle nesting sites

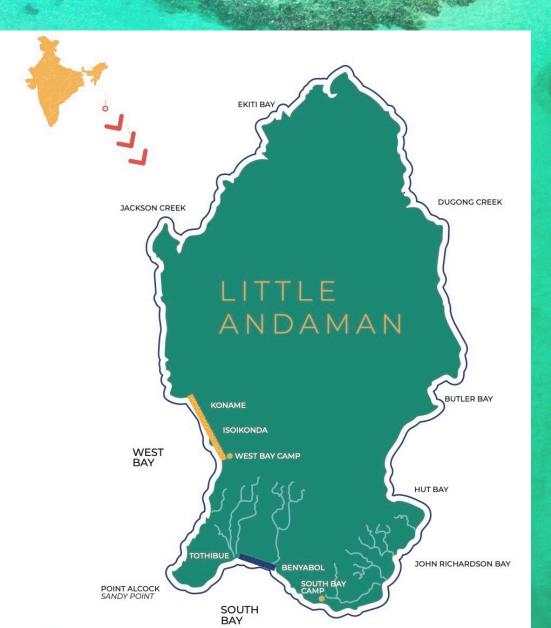
Education, Capacity Building and Outreach

- Raise awareness and sensitise local communities and stakeholder groups
- Strengthen collaboration with ANI Forest Department
- Provide recommendations to the state departments and ministry

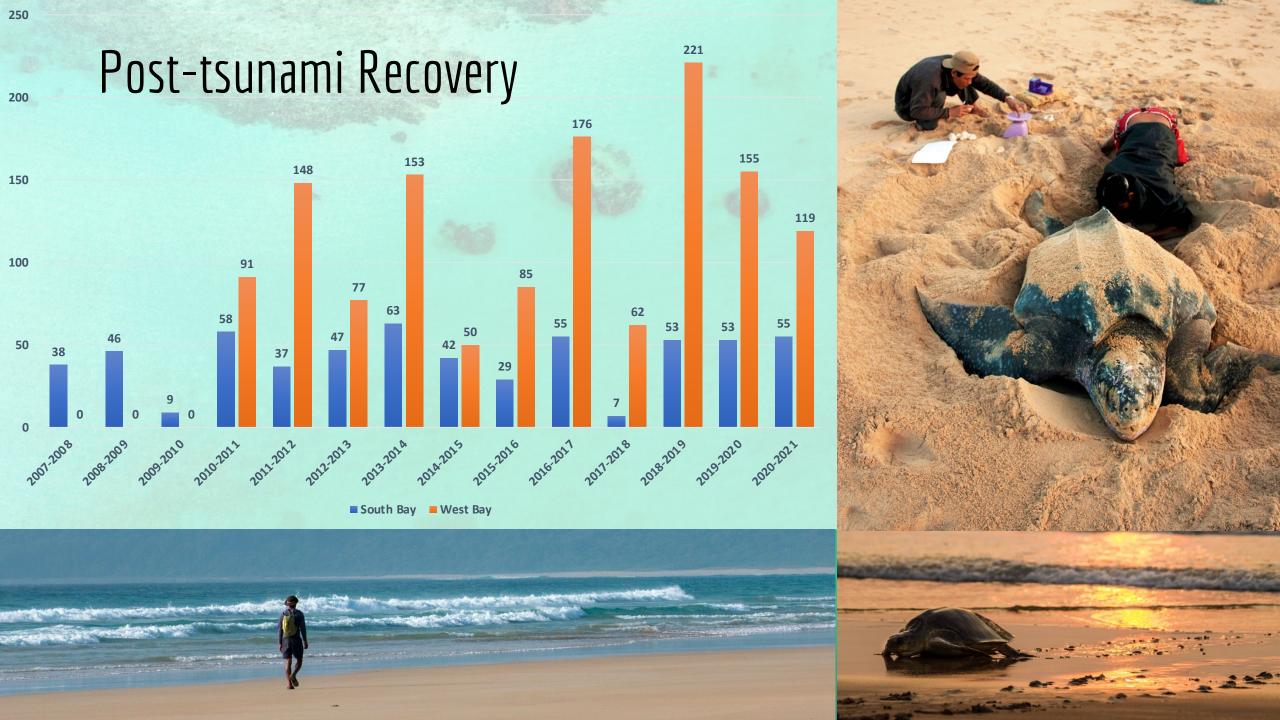
Community Engagement

 Engaging with stakeholder groups and increasing opportunities for local communities

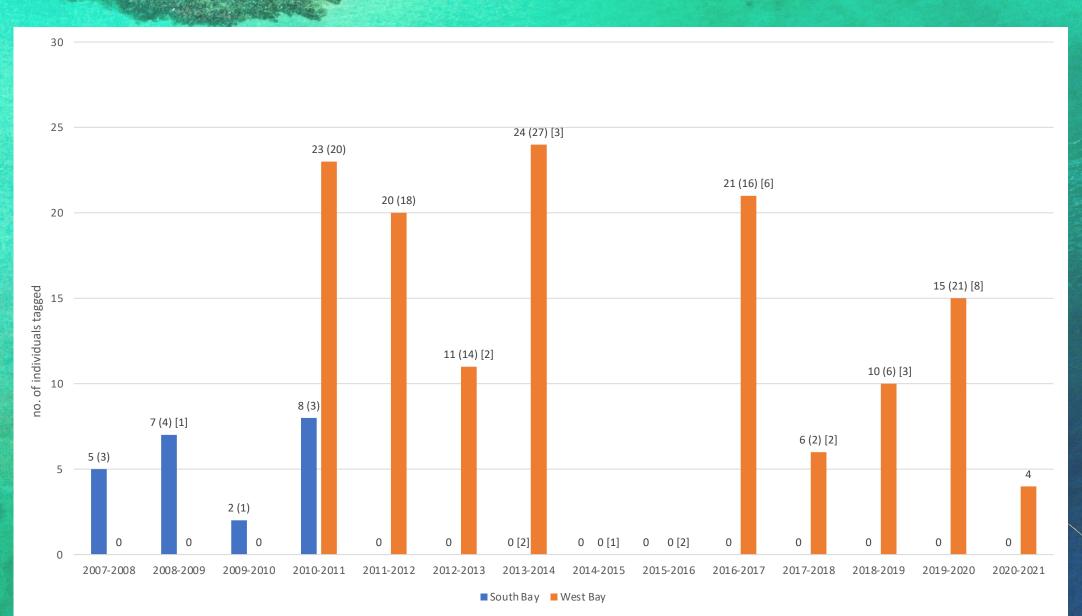
Little Andaman Island





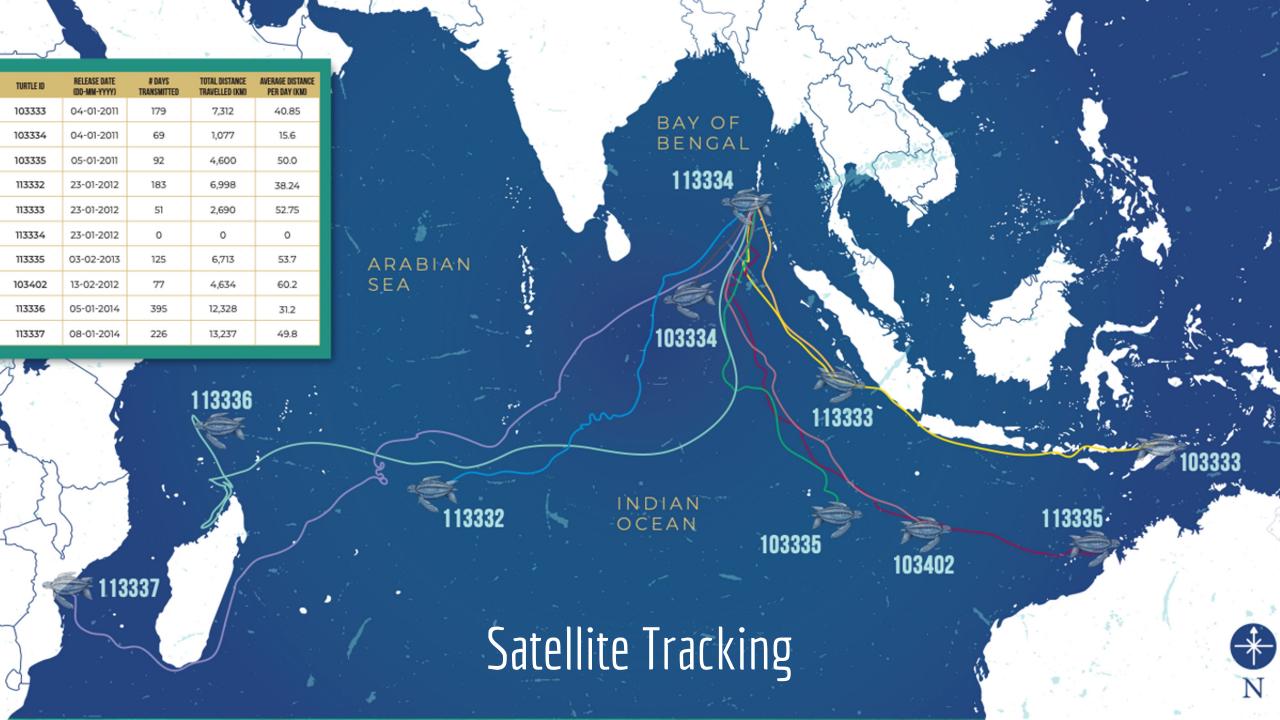


Tagging Data



Voyage of the Leatherback





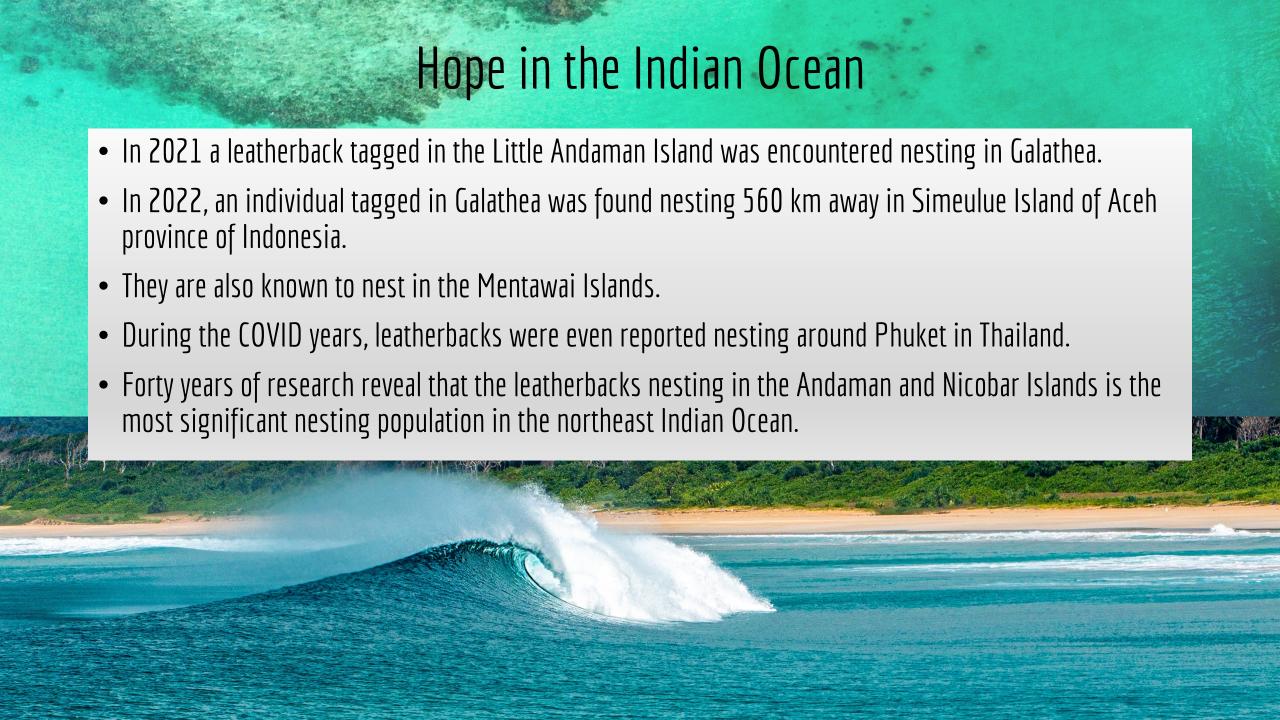
Nicobar Islands

	THE RESERVE AND PARTY AND PERSONS ASSESSED.		COLUMN TO A STATE OF THE STATE	The state of the s							AND A SECURE OF THE PARTY OF TH			
1978-	1001	1990-	1991-	1993-	1995-	1997-	2000-	2001-	2003-	2004-	2010-	2014-	2015-	2018-
1979	1991	1992	1994	1996	1998	2001	2002	2004	2005	2011	2015	2016	2019	
Great Nicobar Island														
		46	158	237	282	124	524	425	575	84	146	7	410	380
80	55	146	343				866						66	64
80	8	82	171				362						166	177
Little Nicobar Island														
		49		115									99	
				50									40	
	19 7 9 80	1979 1981 80 55	1979	1979 1981 1991 1992 46 158 80 55 146 343 80 8 82 171	1979 1981 1991 1992 1994 80 55 146 343 80 8 82 171	1979	1979	1979 1981 1991 1992 1994 1996 1998 2001 Great Nicobar Island 80 55 146 343 866 80 8 82 171 362 Little Nicobar Island 49 115	1979 1981 1991 1992 1994 1996 1998 2001 2002 Great Nicobar Island 80 46 158 237 282 124 524 425 80 55 146 343 866 80 8 82 171 362 Little Nicobar Island	1979 1981 1992 1994 1996 1998 2001 2002 2004 Great Nicobar Island 80 46 158 237 282 124 524 425 575 80 55 146 343 866 362 80 8 82 171 362 Little Nicobar Island	1979 1981 1992 1994 1996 1998 2001 2002 2004 2005 Great Nicobar Island 80 46 158 237 282 124 524 425 575 84 80 8 82 171 362 566	1979 1981 1992 1994 1996 1998 2001 2002 2004 2005 2011 Great Nicobar Island 80 46 158 237 282 124 524 425 575 84 146 80 55 146 343 866 <t< td=""><td>1979 1981 1991 1992 1994 1996 1998 2001 2002 2004 2005 2011 2015 Great Nicobar Island 80 46 158 237 282 124 524 425 575 84 146 7 80 55 146 343 866 80 8 82 171 362 Little Nicobar Island</td><td>1979 1991 1992 1994 1996 1998 2001 2002 2004 2005 2011 2015 2016 Great Nicobar Island 80 46 158 237 282 124 524 425 575 84 146 7 410 80 55 146 343 866 66 80 8 82 171 362 166 Little Nicobar Island 49 115</td></t<>	1979 1981 1991 1992 1994 1996 1998 2001 2002 2004 2005 2011 2015 Great Nicobar Island 80 46 158 237 282 124 524 425 575 84 146 7 80 55 146 343 866 80 8 82 171 362 Little Nicobar Island	1979 1991 1992 1994 1996 1998 2001 2002 2004 2005 2011 2015 2016 Great Nicobar Island 80 46 158 237 282 124 524 425 575 84 146 7 410 80 55 146 343 866 66 80 8 82 171 362 166 Little Nicobar Island 49 115











Research and Monitoring

- Continue long term monitoring in Little Andaman Island
- Satellite tracking
- Conduct periodic rapid surveys of GNI and LNI
- Conduct island wide surveys in the Andaman group of islands
- Mass nesting census

Future Plans

Education, Capacity Building and Outreach

- Annual capacity building programmes
- Interpretation centres
- Outreach programmes in Educational Institutions
- Sea turtle photo exhibition

Community Engagement

- Turtle Tours
- Coastal clean up
- Volunteer programme



Funding







Ministry of Environment, Forest and Climate Change

Government of India



The Team



Kartik Shanker



Debangini Roy



Chandana Pusapati



Rhea George



Vishrutha Rao



Srotoswini Majumdar



Hariprasath R

Muralidharan M Advisors: Andrea Phillott Mark Hammann

