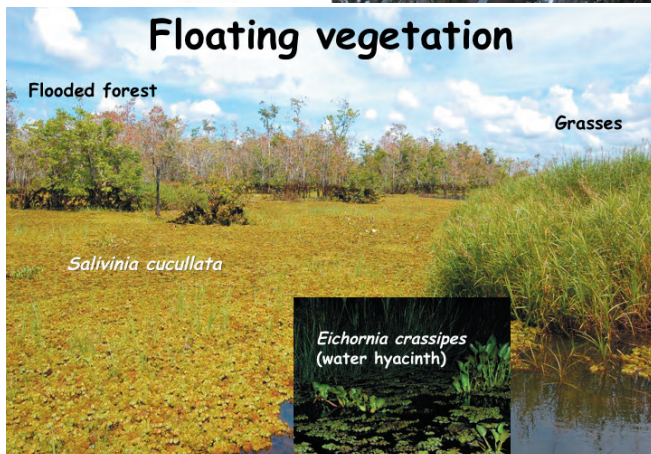
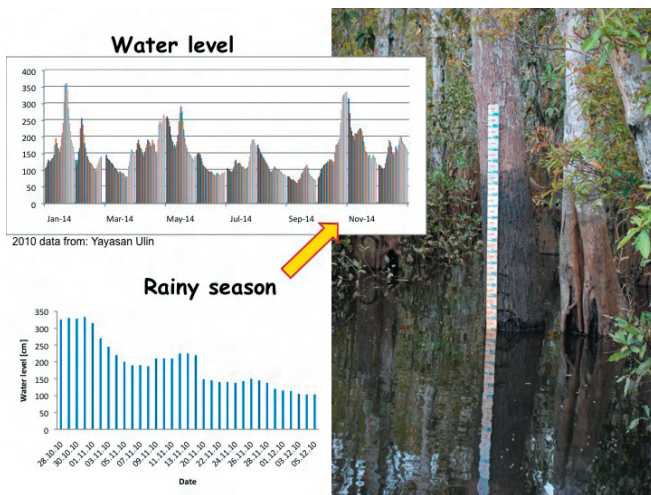
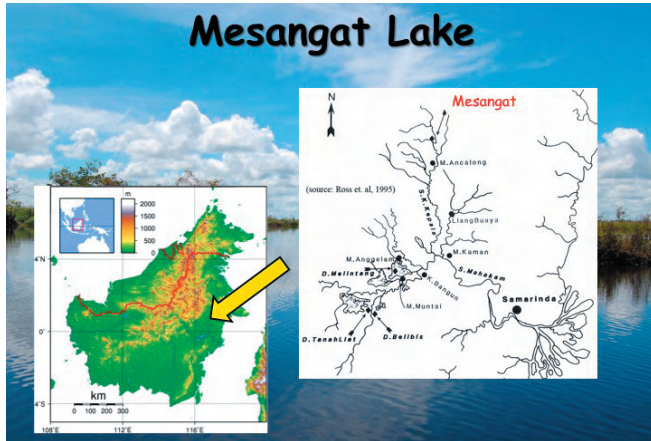


Crocodile Surveys in Mesangat Lake, East Kalimantan, Indonesia, October-December 2010

Agata Staniewicz
University of Bristol, UK

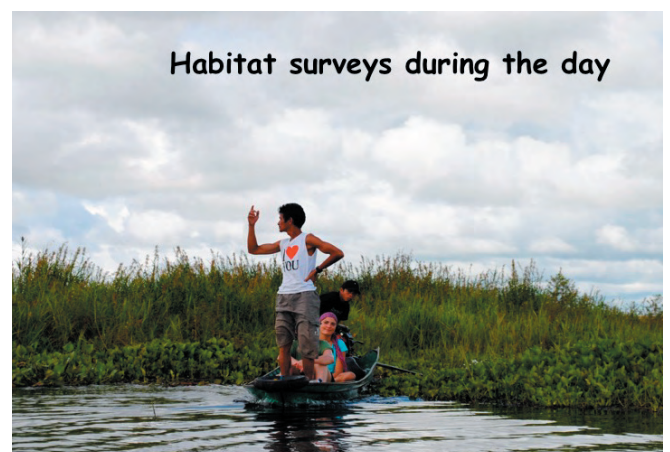
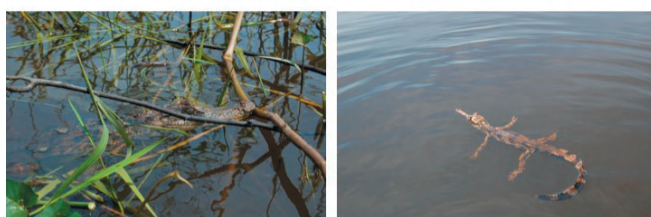
Survey Aims

1. Assess the population size and distribution of both species in the area
2. Obtain data on crocodile location in the rainy season for further studies of seasonal movements
3. Obtain information on general biology and feeding ecology of both species

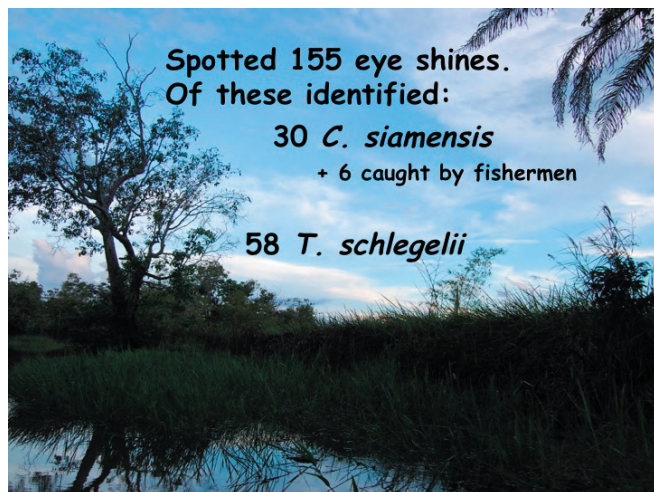


Crocodylus siamensis

Tomistoma schlegelii

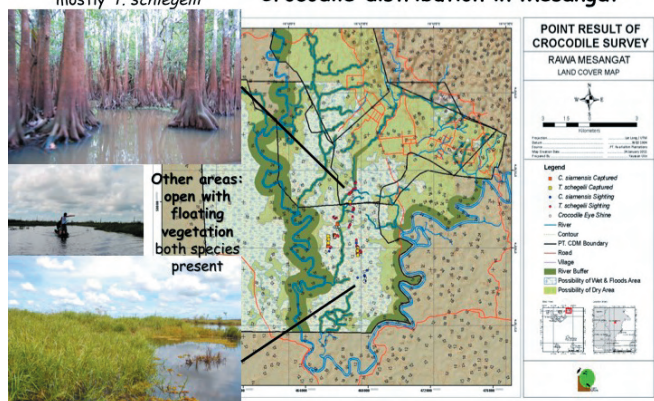






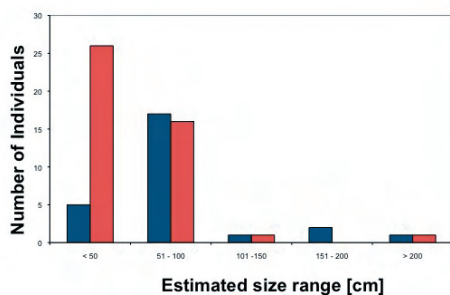
North: flooded forest
mostly *T. schlegelii*

Crocodile distribution in Mesangat



South: open with floating vegetation
mostly *C. siamensis*

Most *T. schlegelii* were smaller than *C. siamensis*



Diet

Species	No.	Total Length [cm]	Body Mass [g]	Stomach contents					
<i>T. schlegelii</i>	1	43	127		x				
	2	44.5	127	x					
	3	42.4	114		x				
	4	61.9	346		x			x	
<i>C. siamensis</i>	5	95	2370		x	x	x	x	
	6	59	430		x	x			x
	7	76.6	1230		x			x	x
	8	87.3	1730		x	x			x
	9	88.1	1800		x	x	x		
	10	80	1150		x				x

Preliminary Results - Summary

- 155 eyeshines spotted
- Both species present
- Some evidence for space partitioning:
 - *T. schlegelii* in flooded forest
 - Both species in open areas
- Different nesting seasons
- Prey shift with crocodile size

Future Work

- Surveys in dry season (2011)
- Seasonal differences in distribution and diet
- Nesting behaviour
- Long-term study of biology, ecology and behaviour of both species

Conservation Implications

- Mesangat Lake - unique habitat
- Two endangered croc species
- Main threats: habitat loss (human development), others?
- Information on biology, ecology and natural habitat - background for future conservation activities

Acknowledgements

Natascha Behler (*C. siamensis*)
 Landowner: PT. Cipta Davia Mandiri
 Supervisors:
 Gareth Jones (University of Bristol)
 Thomas Ziegler (Bonn University)
 Ralf Sommerlad, Rob Stuebing



Ibu Kiki
Ibu Suimah

Acknowledgements



Field assistants:
 Ingan Njuk, Sebastianus Enjau, Jackson Londah,
 Daud Lenjau, Sunardi, Deni Wahyudi, Kahang Aran

Fishermen in Mesangat and Senambah

