



General Information for the case study:

WRL reference	M05 D01	
Module	M05 Natural Resource Use and Sustainability	
Data set	D01 Identifying overfishing on Indonesian coral reefs	
Research questions	<ol style="list-style-type: none"> How have catches from fish fences changed between 2005 and 2011 in the Wakatobi Marine National Park? What does the data tell us about the sustainability of coral reef fisheries in the Wakatobi Marine National Park? 	
Keywords	Ecosystem; Coral Reef; Sustainable: over-fishing; statistics; case study; human impact; populations;	
Potential Biology Curriculum links (UK)	AQA	3.4.1; 3.6; 3.9 ; How Science Works.
	edexcel	Unit 4; App 10
	IB	G.3; G.5; 1.1.5
	Camb. Pre-U	5.2;
	OCR	5.3.1; 2.3.4; 5.3.2; App D
	WJEC	4.5; 5.8; BY6
	SQA	Case studies; FH2J (3); HOAL (1) : HOAM
	CCEA	2.3; 4.4; Maths and Stats knowledge
Summary	<p>In Asia many people rely on coral reef fish as a source of protein and a rapidly growing population has placed heavy demands on this already threatened ecosystem. This WRL study examines the evidence for over-fishing by looking at data collected from traditional Indonesian fish fences around Kalepuda island.</p> <p>Graphs are plotted, standard error calculated and a paired t-test applied to see if there have been any significant changes in the numbers of fish that have been caught in 2005 and 2011. This evidence is then used to consider the sustainability of coral reef fisheries in this area of Indonesia.</p> <p>Difficulty: Graphs and Statistics – 8/10 Discussion 6/10</p>	

