

General Information for the case study:

M01 D02	
M01 Ecosystems – Coral Reefs	
D02 Variation in habitat quality between two Indonesian coral	
reefs	
1. How does the habitat quality differ between the two study reefs (Pak	
Kasims and Kaledupa Double Spur)?	
2. Is there evider	nce of increased human pressure or habitat
	either of the reefs?
I	niotic; coral; environmental monitoring; error bars;
1	an effects; human activities; indicator species; over
fishing; transect: sampling; standard deviation; standard error ential AQA 3.2.1; 3.2.11; 3.4.3; 3.4.6; how science works I & J	
AQA	3.2.1; 3.2.11; 3.4.3; 3.4.6; how science works I & J
edexcel	4.11; 7.3-11; 9.3-2; How science works - 5
IB	Topic5; Option G.3
Camb.Pre-U	Unit 5; App 3: Maths requirements.
OCR	2.3.1; app. 2- 2 (e); 5.3.1
WJEC	5.8; app 3 – handling data
SQA	Case studies; FH2H (2); FH2J (2); H0AL; H0AM
CCEA	2.2; 2.3; 4.4; Maths and Stats knowledge
Two Indonesian coral reefs are compared using video footage taken along 6 transects. Keen students can do the full analysis of the raw data although data sheets are provided with the analysis completed. Video clips are provided for realism. The footage is then looked at for evidence of possible human activity. The analysis can be set at a number of different levels and includes plotting graphs, calculation of standard deviation and error and error bars. A 'walk-through' method on how research scientists actual analyze large sets of complex data is also provided and will appeal to the more able students who might be keen to carry out research as a career or at University. Difficulty: Research Q1 - 7/10 (lots of data to process) Research Q2 - 9/10	
	M01 Ecosystem D02 Variation in reefs 1. How does the Kasims and Kaled 2. Is there evider deterioration at 6 Biome; abiotic; becosystem; huminishing; transect: AQA edexcel IB Camb.Pre-U OCR WJEC SQA CCEA Two Indonesian along 6 transects although data she clips are provided of possible human different levels a deviation and erresearch scientis provided and will to carry out rese Difficulty: Research Q1 - 7/

