

SUMMATIVE IN-COURSE ASSESSMENT COVER SHEET

UNIT CODE: 69EG6517	UNIT TITLE: Impacts & Models of Climate Change
TITLE AND NUMBER OF ASSIGNMENT: Assignment 1: Climate modelling theory and results REPORT	WEIGHTING (%) 50%
<p style="text-align: center;">Assignment 1 Climate modelling theory and results SYNTHESIS REPORT</p> <p>During the first block of this course, you have been introduced to the basic principles of modelling theory, statistical and dynamical climate modelling and how models are run as well as their limitations. In addition, you have learned how to undertake basic environmental modelling and extract information from climate model simulations.</p> <p>For this assignment you are required to generate a SYNTHESIS REPORT. The report must allow you to demonstrate your understanding of the ideas and practical knowledge of modelling and climate model results. It must be written in the style of a briefing document suitable for a scientific readership similar to that you might find in a typical textbook. You should utilise both the theory and ideas introduced in the lectures (augmented by your own reading) and consideration of practical elements such as sensitivity testing and visualisation of climate model results covered in practicals.</p> <p>Your report should have a <u>logical structure</u>: (1) introductory section (historical overview and background to the subject etc), (2) multiple sections, each dealing with key areas of modelling theory, climate model formulation, limitations of models, practical needs of running climate models and some synthesised results of climate model experiments with appropriate commentary. Your report should then end with (3) a final conclusions section with an overview of where future scientific theory, modelling methods and results may lie. You must show evidence of having read widely around each topic. Do not merely rely on lecture notes! Avoid websites and use good peer-reviewed scientific journal articles as much as possible.</p> <p>Make use of diagrams, graphs and charts where appropriate – but don't 'swamp' the report with lots of graphs, charts and images without linked commentary.</p> <p>It is expected that text books and <u>scientific papers</u> will be used as the primary source of literature cited. Websites should be used to an absolute minimum or preferably not at all. Wikipedias and online reference sites must NOT be used.</p> <p>Resources: Unit handouts and support material (provided both electronically and on paper). All Saints library, Journals (both online with Science Direct and paper copies). Additional support materials can be found in the EG6517 section of http://www.ukscience.org.</p>	

Submission method: Submit in the usual way – via the coursework submission boxes located by ground floor reception areas of John Dalton Main and John Dalton East (see your student handbook for details)

Word/Page limit (*delete as appropriate*): Coursework that exceeds stated page limit will be penalised according to the following scheme:

- If your work exceeds the stated page limit by more than 10% your mark will be reduced by 10% (ie one degree class).
- If your work exceeds the stated page limit by more than 30% your mark will be capped at 40%.

WORD LIMIT: 2500 words

WORD PROCESSED: YES

DATE SET: September 2009

SUBMISSION DEADLINE: Assignments **MUST** be submitted before 12 NOON on:

Monday 14th December 2009

Work submitted later than this will be capped at 40%

ABSOLUTE DEADLINE: 12 NOON on:

Friday 18th December 2009

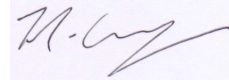
Work submitted later than this will be awarded 0%

NAME OF STAFF SETTING ASSIGNMENT: Dr Mark Cresswell

This assignment was moderated on (date): 15th September 2009

Moderated by (signature):

Unit Coordinator (signature):



Name of moderator:

Professor Dave Raper

Name of Unit Coordinator:

Dr Mark Cresswell