

INDIVIDUAL REPORT 2 – The Systems Storm

Student Name:
Student Email:
Student Number:

There are 25 marks in total for this report. This assessment will account for 25% of your total module mark.

The purpose of this report is to apply systems dynamics analysis to the challenge of Beddington's Perfect Storm (hereafter referred to as "The Perfect Storm"). As for Assessment 1 there are sections for this assessment, but this assessment will require longer more essay-like answers.

REFERENCES. You will need to cite appropriate peer-reviewed literature in order to support your work. At the end of the report provide an itemized bibliography in XXXX style (example given in the Bibliography section). In the main body text refer to an item thus: "...a review (Wood 2008) discussed this point...".

PLAGIARISM. You may choose to work on this assessment individually or with other students in the module. It is very important that this report is your own work and that you answer each question individually. Working on this assessment by, for example, Student 1 answering question 1, Student 2 answering question 2 and then Student's 1 & 2 incorporating their answers into their respective assessments may be judged to be an example of plagiarism. Discussion is good. Explaining answers to other students is good. Reproducing another student's answer as your own work is not good.

Q1

Describe the Perfect Storm. As well as Beddington's report, refer to relevant peer-reviewed publications.

Q2

Sketch out a systems dynamics diagram of the Perfect Storm.

Q3

Where are the feedback loops in the Perfect Storm? How do these feedback loops complicate our attempts to address these challenges? Are there any potential critical transitions and hysteresis?

Q4

Argue whether we are going to be able to successfully navigate the Perfect Storm.

Bibliography

Example reference

Wood, A. J., Ackland G. J., Dyke J. G., Williams H. T. P., and Lenton T. M. (2008). *Daisyworld: A review*. *Reviews of Geophysics*, 46, doi:10.1029/2006RG000217.

DRAFT