



NTNU – Trondheim
Norwegian University of
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Department of Geography

Examination paper for GEOG2007 - Effects of Climate Change

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Examination time:	4 hours
Credits:	7.5
Grades to be announced on:	4th July, 2016
Permitted examination support material:	None
Language:	English
Number of pages:	2
Number of pages enclosed:	0

The exam consists of four tasks. It is expected that you do them all. The weighting is indicated with percentages. You may answer in Norwegian.

Task 1: Explain short but concise the following concepts (20%)

- a) Representative Concentration Pathways
- b) Radiative forcing
- c) Climate change adaptation versus climate change mitigation

Task 2: Regional warming (25%)

Estimates of regional warming due to increased greenhouse gases are generally larger over land areas than over ocean areas. What might be the reasons for this?

Task 3: Why should we be concerned? (25%)

It has been said that it is not easy for humans to make connection, especially of a moral kind, between taking a trip in an aircraft and a flooding disaster in Bangladesh. Can you suggest how this connection can be presented so that it appears relevant?

Task 4: Renewable energy (30%)

List the various environmental impacts of different renewable energy sources, biomass, wind, solar PV and marine (tidal and wave). How would you assess the seriousness of these impacts compared with the advantages to the environment of the contribution from these sources to the reduction of greenhouse gas emissions?