

Total points: 100
ATOC 1060-001 Project
Due Tuesday Nov. 16 2010

INSTRUCTIONS:

- **Your project must include all the following four parts, and each part should be in a separate paragraph. Missing one or more parts will result in corresponding points deductions.**
- **The project text should be single-spaced and is limited to 2 pages with 12pts font. The project must be typed. Figures and references are not counted toward the page limit.**

Assume that you are a member of the Science Advisory Council of a government agency. You are designated to assess global warming during the past few decades and its association with anthropogenic forcing. Your task is to write a “science assessment report”. In the report, you need to include the following four parts:

1. Observational evidence of global warming (25pts)

Discuss observational evidence of global warming in the past few decades, especially since the 1960s. Denote explicitly the sources of data that you use. For example, “(Bindoff et al. 2007)”. You may include any figures or charts that we covered during the classes, and you may also find that the IPCC AR4 Technical Summary is useful, which is posted on the class website under “project”. You are also encouraged to search the website for more observational evidence from other sources.

2. Linkage between global warming and anthropogenic forcing (25pts)

Discuss the possible linkage between anthropogenic forcing and global warming. You may agree or disagree the possible effects of anthropogenic forcing. No matter which standpoint you take, you should provide “evidence” to support your argument.

3. Possible impact (25pts)

Discuss the possible impact of the global warming on our future climate, economy, and social structure of our society. (Read textbook, Chapter 16.)

4. Suggestions to the policy makers (25pts)

Based on your discussions above, provide your suggestions to the policy makers regarding the actions and precautions that we should take. (Reference textbook, chapter 16.)