Climate Change and Christian Stewardship: Towards an Alternative Framework for Understanding Questions of Creation Care

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July 26, 2014

Slides version date: July 25, 2014. Presented at the ASA/CSCA/CiS Joint Annual Meeting, McMaster University, Hamilton, ON, Canada. Opinions expressed in this talk are the presenter’s own and do not represent the opinions of North Park University or the American Scientific Affiliation.
Main point: Determining the *content* of creation care is more difficult than commonly acknowledged.

What is climate change?

A limit to the Bible about the content of creation care

Towards a framework for “considered obedience”

Science epistemology and science-policy: Moving beyond policy-prescriptiveness

Conclusions
Past warming and possible future increases in global mean surface temperature

- **A2 scenario**: Heterogeneous world, fragmented growth.
- **A1B scenario**: Very rapid economic growth with balanced energy sources.
- **B1 scenario**: A1 scenario population but economy is focused on sustainability.
- **Constant composition**: Hold CO2 constant at year 2000 level.
- **Warming is relative to 1980–99.**
Why “simple obedience” is not possible for God’s creation care command I

- Human beings are commanded to serve and protect creation as stewards (e.g., Gen. 1:28).
- Obedience to a command requires clarity in these three criteria:
  - **Importance** of the command (e.g., is it optional, a required duty, contextually applied, etc.).
  - **Goals** of the command (e.g., what is the command trying to accomplish).
  - **Practice** of the command (e.g., what you actually do to obey the command).
Why “simple obedience” is not possible for God’s creation care command II

▶ “Simple obedience” is where the criteria for obedience is clear without additional analysis. Thus:

\[
\text{command} \rightarrow \text{obedience}
\]

It may or may not be easy to obey, but the connection between command and obedience is direct and clear.

▶ Clarity means either:

▶ Answers for the criteria are clear.
▶ It’s clear that detail in that criteria is unneeded for obedience.
Why “simple obedience” is not possible for God’s creation care command III

▶ Example of a command with such clarity: “Do not steal”
  ▶ Importance: It is required and context independent.
  ▶ Goals: Character development, social peace, love of neighbor, etc., but because of the non-negotiable importance, perfect clarity in goals is unneeded for obedience to be possible.
  ▶ Practice: Do not take that which you do not own.
Aside: If importance tells us it’s a non-negotiable duty, clarity in goals usually does not matter for obedience to be possible.

Creation care does not have such simple clarity:

- The Bible makes clear the importance of creation care.
- The goals and practice of creation care are only partially given in Scripture.
- This is particularly true for modern environmental problems which often involve modern technology and concepts (e.g., CO$_2$ is, of course, mentioned nowhere in the Bible).
Why “simple obedience” is not possible for God’s creation care command V

- We need more than the creation care command itself to figure out how to obey this command.
- Creation care is a command requiring “considered obedience.”
Considered obedience explicitly includes analysis of the criteria for obedience

\[
\text{command} \rightarrow \left\{ \begin{array}{c} \text{importance} \\ \text{goals} \\ \text{practice} \end{array} \right\} \rightarrow \text{obedience}
\]
Determinants and criteria

For creation care, the criteria for obedience are determined by the following determinants:

Determinants:
- worldview
- ethical theories
- science epistemology
- science-policy
- politics
- economics

Criteria:
- importance
- goals
- practice

↑ Scripture, reason, etc.

Unfortunately, most dialogue about creation care only covers a few of these determinants.
Preliminary thoughts on what the determinants tells us as applied to climate change I

▶ A full treatment of the determinants requires more time than I have.
▶ My book *The Nature of Environmental Stewardship*, which should be published by Wipf and Stock in 2015, will go in-depth on this.
▶ Preview: For science epistemology/policy, I’ll:
  ▶ Describe some question(s) we need to ask and answer about the determinant.
  ▶ Discuss how different answers can lead to different responses to climate change.
▶ Goal: Illustrate the process of considered obedience and identify possible alternative avenues for dialogue regarding climate change.
Science epistemology and science-policy: Moving beyond policy-prescriptiveness

Questions:

- What is the authority status of science?
- How should science be connected with policy?
Science epistemology and science-policy: Moving beyond policy-prescriptiveness II

Example: Climate change policy discussions tend to use science in a policy prescriptive way:

- Policy prescriptive = science determines policy.
- Conventional wisdom about ozone depletion fits this view of science: Scientists discovered the ozone hole and its cause, policy-makers listened to the scientists and banned CFCs, and the ozone hole was closed.

Stratospheric ozone on November 6, 2012. Credit: NASA Ozone Watch
Science epistemology and science-policy: Moving beyond policy-prescriptiveness III

- Discussions of climate change proposals, like the Kyoto Protocol, often follow this conventional wisdom understanding.

- What actually happened with ozone: Political action occurred even while the science was uncertain, tiered policies (instead of an all-out ban) helped stimulate research into alternatives, and creation of alternatives defused probable conflicts between stakeholders (Sarewitz 2004, Pielke 2007).
Science epistemology and science-policy: Moving beyond policy-prescriptiveness IV

Answers and responses:

- Policy prescriptive view of science only applies to most basic environmental issues.
- Policy prescriptive view of science turns value controversies into technical problems, preventing a value debate.
- Policy prescriptive view can feed a desire for “definitive” knowledge prior to political action and a tendency towards comprehensive solutions (Sarewitz 2004).
- A humbler role for science in policy can lead to incremental solutions (Sarewitz 2004) and solutions that incorporate more stakeholders (Mills & Clark 2001).
Conclusions I

- Creation care, over contentious issues, is not a command that lends itself to simple obedience.
- Much of the disagreement over what to do regarding climate change are over the determinants of the criteria for obedience and thus cannot be solved by appeal to Scripture.
- Science may not be policy prescriptive. Solutions arrived at using science in a non-policy prescriptive way may: meet the needs of more stakeholders, incorporate more kinds of solutions, and have greater stability.
- Lastly . . .