



Climate Change: Geophysical Puzzles and Some Answers

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Climate change is a complex subject, involving many disciplines of geophysics – from geodynamics and meteorology to solar-terrestrial relationships and solar-planetary dynamics. We will discuss a number of scientific puzzles, many still unanswered:

- How much of climate change of the past century is anthropogenic and how much is caused by Nature?
- How reliable are temperature data of the atmosphere and of the surface, including sea surface?
- How reliable are climate models used to calculate future temperatures?
- How good is the evidence for solar forcing of climate?
- On a decadal time scale, is natural forcing mainly solar or due to internal oscillations?
- Can the 1500-year cycle discovered in ice cores explain the Medieval Warming and Little Ice Age?
- Why does sea level rise show no acceleration – and how to account for its observed magnitude?

Much of the presentation is based on the NIPCC report “Nature – Not Human Activity – Rules the Climate”
http://www.sepp.org/publications/NIPCC_final.pdf