

Dear Colleagues,

Below you will find the agenda for our meeting in Washington next week. In designing the meeting we have organized discussions around three themes or topics. The themes are intended to encompass the questions and findings outlined in the summaries that were submitted to us. Because there is not enough time for each of us to present a talk we have asked several individuals to act as summarizers and discussion leaders for each of the discussion topics. These individuals may call upon people to comment or to share information that helps the discussion. As we mentioned previously, we'd like each of you to bring a few figures that would facilitate a discussion if the opportunity arises. Please also make sure to read each of the summaries prior to the meeting. We look forward to an interesting and lively discussion as we assess the current state of the Holocene initiative.

Holocene PIs Meeting Agenda

The three topics to be discussed at the meeting:

- 1) Is there a recurrent pattern of climate variability within the Holocene? Is a part of the 20th century change a part of the recurrent pattern?
- 2) Is the latest Holocene a unique climate interval within the Holocene? Is it unique compared to previous interglacials?
- 3) What is the origin of the observed Holocene climate variability?

- solar
- hydrologic cycle feedbacks
- atmosphere-ocean coupled system variability
- ocean overturning

May 16th

Participants Arrive

6:30-8:30PM Ice Breaker

For those participants arriving in time there will be an ice breaker at AGU Headquarters

May 17th

7:45-8:45AM Breakfast provided

9:00-9:30AM Meeting Begins

Opening Remarks and a History of the Holocene Program: Lowell and Bill

Welcome and Business: Dr. David Verardo and Dr. Amos Winter, NSF Earth System History (ESH) Program Directors.

9:30-10:00AM

Opening Remarks:

Dr. Thomas Guilderson (LLNL): Summary of Holocene Climate Forcing (^{14}C and ^{10}Be records, greenhouse gases from ice cores).

10:00-10:30AM

Dr. Noah Diffenbaugh (Purdue): The current generation of coupled ocean/atmospheric models; how they handle the time-varying changes in radiative forcing and how well (or poorly) the models handle feedbacks, particularly those acting on centennial to millennial time scales.

10:30-11:00AM

Dr. Mark Chandler (NASA-GISS): A desktop GCM demonstration

11:00-11:30AM

Discussion

Noon-12:45PM

Lunch

1:00-5:00PM

Discussion Session 1: 1) Is there a recurrent pattern of climate variability within the Holocene? Is a part of the 20th century change a part of the recurrent pattern?

Dr. Jeff Dorale (U. Iowa) and Dr. Terry Quinn (U. South Florida) Discussion Leaders

May 18th

7:45-8:45AM Breakfast provided by AGU

9:00-9:30AM

Opening Remarks: Dr. William Ruddiman (U. Virginia)—the Anthropocene

9:45-11:45AM

Discussion Session 2: Is the latest Holocene a unique climate interval within the Holocene? Is it unique compared to previous interglacials?

Dr. Jerry McManus (WHOI) and Dr. Bill Ruddiman (U. Va) Discussion Leaders

Noon-12:45PM

Lunch

1:00-5:00PM

Discussion Session 3: What is the origin of the observed Holocene climate variability?

- solar
- hydrologic cycle feedbacks
- atmosphere-ocean coupled system variability
- overturning

Dr. Jean Lynch-Stieglitz (Ga. Tech) and Dr. Mark Bush (FIT) Discussion Leaders

6:00PM Dinner Provided

May 19th

7:45-8:45AM Breakfast provided by AGU

9:00-11:45AM

Discussion Session 4: What are the important and urgent science questions that might be addressed by the community? And, how may this community proceed to address the questions?

Noon-12:45PM

Lunch