Agenda for CCIGW/NACP Workshop

Development of Predictive Carbon Cycle Science

Venue: NOAA NCWCP Conference Center (Rooms A, B, & C),
5830 University Research Court, College Park, Maryland 20740

Arrival on March 6

Day 1 (March 7)

8:30-9:30 Opening talks
Gyami Shrestha and CCIWG co-chairs (Nancy Cavallaro and Dan Stover), Overview of U.S.
 Carbon Cycle Science Program and charges to this workshop (10 mins)
Introduction of participants and their suggestions on how to develop predictive carbon cycle
 science (30 mins)
Yiqi Luo, Overview and objective of the workshop (20 mins)

9:30-10:10 Systems' intrinsic predictability (10 mins each**)**
Matthew Long: Ocean/coastal
Steven Davis: Emission/human dimensions
Trevor Keenan: Land
Anna Michalak: Atmosphere as an integral of the carbon cycle system

10:10-10:40: Coffee break

10:40-11:20 Predictive skills of current models (10 mins each**)**
Keith Moore: Ocean/coastal
Gretchen Keppel-Aleks: Atmosphere
Adam Schlosser: Emission/human dimensions
Deb Huntzinger: Land

11:20-12:00 Open discussion (50 mins)

Lunch 12:00-1:30

1:30-1:50 Discussion on SOCCR-2, Gyami Shrestha
1:50-2:10 Summary of survey on suggestions of how to develop predictive carbon cycle sciences

2:10-2:50 General talks (20 mins each)
Forrest Hoffman, Benchmark analysis toward better prediction
Tris West: predictive skills of models vs. effectiveness of policy-making support

2:50-3:20 Coffee break

3:20-5:00 Discussion session I Intrinsic predictability – the fundamental properties of the system that determine its future trajectory

Two or three discussion groups

5:00-5:30 Discussion group reports

6:30 Dinner

Day 2 (March 8)

8:30-9:10 Availability of experimental and observational data to constrain model prediction (10 mins each)
Wei-Jun Cai: Ocean/coastal
Ken Davis: Atmosphere
Kevin Gurney: Emission/human dimensions
Yude Pan: Land

9:10-11:30 Discussion session II Synthesis of experimental, observational, and modeling results to improve model predictive skills (coffee break included)

11:30-12:00 Reports

12:00-1:30 Lunch

1:30-1:50 General talk
Steve Wofsy, Predictive science in the context of global carbon research (20 mins)

1:50-2:30 Operational forecasting/prediction systems (10 mins each)
Jiang Jiang and Daniel Ricciuto, SPRUCE, Mike Dietze, PEcAn
Andy Jacobson, CarbonTracker
Ruoying He, Ocean/coastal
Klaus Hubacek, Emissions/human dimension

2:30-4:30 Discussion III Technical advances to realize the predictive carbon cycle science (coffee break included)

4:30-5:00 Group report

Dinner on your own

Day 3 Morning (March 9)
8:30-8:50 General talk
Scott Denning, Prediction as a research area for the next decade of NACP (20 mins)

8:50-10:30 Discussion VI Recommendations toward predictive carbon science

10:30-11:00 Coffee break

11:00-12:00 Reports and general discussion

12:00 *adjourn*