



*First Annual MIT Earth System Model (MESM) Science Retreat  
13-15 April 2016  
MIT Endicott House and Conference Center, Dedham, MA USA*

**Wednesday 13 April (Evening)**

5:00 PM	Arrival (early arrival/check-in anytime after 3:00 PM)
6:30-7:00	Reception in Main House Gun Room
7:00-8:30	Dinner in Main House Dining Room
8:30-10:00	Reception/Socializing in Main House Gun Room

**Thursday 14 April**

7:30-8:30 AM Breakfast in Main House Dining Room

**All working sessions held in Brooks Conference Center**

8:30	Opening remarks	<b>Presenter</b> Ronald Prinn
8:45	Introduction to the MESM framework (components, uncertainty)	Adam Schlosser
9:45	Science components & research summary	
	- Land biogeophysics/water (CLM)	Xiang Gao
10:15	- Land biogeochemistry (TEM framework)	David Kicklighter
10:45	Break	
11:00	- Ocean dynamics (MITgcm)	Jeff Scott
	- Ocean biogeochemistry & biology (DARWIN)	Stephanie Dutkiewicz
12:00-1:30 PM	Lunch in Main House Dining Room	
1:30	Science components & research summary ( <i>continued</i> )	
	- Atmosphere (2D+3D)	Erwan Monier
2:00	- Atmospheric chemistry (2D, GEOSCHEM, CAM-Chem)	Ben Brown-Steiner
2:30	High performance computing cluster (Svante)	Jeff Scott
2:50	Version control (GitHub)	Jeff Scott
3:15	Break	
3:30	Run MESM 2.2 (overnight run, with results)	Andrei Sokolov
	- results for a few sets of climate parameters	
	- benchmark of MESM 2.2 / MESM 2.3 / CAM / GEOSChem/...	
5:00	Adjourn	
6:00	Reception in Brooks Conference Center Lobby	
7:00	Dinner in Main House Dining Room	
	with distinguished Keynote speaker	Jerry Melillo
9:00	Team building/Socializing in Brooks Conference Center Lobby	All

**Friday 15 April**

7:30-8:30 AM Breakfast in Main House Dining Room

**All working sessions held in Brooks Conference Center**

8:30 AM	Results/post-processing of MESM 2.2 runs	Andrei Sokolov
9:00	Future development/research (introduction to 4 themes)	
	- model development	Erwan Monier
	- climate impacts	Adam Schlosser
	- uncertainty analysis	Andrei Sokolov
	- 2°C study	Ronald Prinn
10:30	Break	
[11:00	CHECK OUT from Endicott House overnight room- Luggage storage available]	
11:00	Open discussion with Joint Program Sponsors/Participants	Joshua Hodge
12:00-1:30 PM	Lunch in Main House Dining Room	
~1:30	Guided Tour of the Endicott House grounds	Endicott House staff
3:30	Adjourn	

*NOTE: To foster a convivial learning retreat environment, questions and discussion are encouraged at all times.*