

DRAFT AGENDA

Last updated 10/08/15

NASA CMS Applications Workshop
The Westin Pasadena, Pasadena, California
Monday, November 16, 2015

NASA Carbon Monitoring System (CMS)

Goals of the CMS Applications Workshop:

- *Identify the challenges/needs of communities that are interested in carbon Measurement, Reporting and Verification (MRV) and related activities.*
- *Provide information on value of CMS products for MRV and related applications – including exploration of key “what?” and “how?” questions for carbon data.*
- *Link CMS community to active policy end users, decision makers and regulatory agencies to ensure maximum benefit of the projects to society.*
- *Identify CMS products that are relevant and ready for use by stakeholders and decision makers-update Application Readiness Levels (ARLs).*
- *Review the CMS Data & Products Fact Sheet and identify CMS data products that align with stakeholders. (Identify potential impact case studies).*

Expected Workshop Outcome:

- *Expose the Science Team members to decision makers and regulatory data users.*
- *Define a community of CMS scientists who are willing to serve as collaborators with future CMS impact studies.*
- *Identify potential stakeholders to demonstrate how CMS products may impact decision processes or what CMS products are needed in terms of carbon data at their facilities.*

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[Fountain Ballroom]

8:00am	CMS Applications Meeting Registration & Check-in	
8:30am	Meet and Greet and Poster Session	
10:00am	George Hurtt, <i>CMS Science Team Leader & Peter Griffith, Chief Scientist of NASA Carbon Cycle & Ecosystems Office</i>	CMS Science Team Meeting Welcome
10:15am	Ken Jucks, Kathy Hibbard, and Hank Margolis, <i>NASA HQ</i>	Welcome, Introduction of carbon cycle and CMS congressional direction
10:30am	Vanessa Escobar, <i>CMS Applications Coordinator</i>	CMS Applications Activity Welcome, CMS Applications Program, stakeholder engagement and CMS impact studies
10:45am	Brief around-the-room introductions facilitated by Vanessa Escobar <ul style="list-style-type: none">• Introduction of all stakeholders in the room• Stakeholders state their need/desired outcome(s) for CMS engagement.• Define the work you do and the decision you are trying to make. How/What type of carbon data from the CMS (potentially) provides decision support?	
11:15am	Lunch On Your Own	
	Speaker	Topic

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12:00pm	Ian Hanou, <i>Plan-It Geo, LLC</i> , and Matt Russell, <i>University of Minnesota</i>	<p>Forest biomass for local resource management</p> <p>Phone application for foresters that would rapidly summarize forest carbon attributes (based off of a gridded data product) within defined radii of a phone's location</p> <p>(PIs: Ganguly-01, Greenberg-01, Hudak-01, Hurtt-03, Williams-C-01, Cohen-02, Dubayah-04, Duren-01, Escobar-01)</p>
12:20pm	Mark Trice, <i>Maryland Department of Natural Resources</i>	<p>Local-scaled ocean acidification monitoring efforts</p> <p>(PIs: Bowman-02, Hurtt-03, Lohrenz-05, Duren-01, Escobar-01)</p>
12:40pm	Steve Crooks, <i>ESA</i>	<p>Wetlands in GHG inventory</p> <p>(PIs: Hurtt-03, Lohrenz-05, Windham-Myers-01, Duren-01, Escobar-01, Morton-02)</p>
1:00pm	Forestry Team, <i>Blue Source</i>	<p>Forest biomass for carbon markets</p> <p>(PIs: Fatoyinbo-01, Ganguly-01, Greenberg-01, Hudak-01, Hurtt-03, Lohrenz-05, Morton-01, Walker-W-01, Williams-C-01, Duren-01, Escobar-01, Graven-01, Stehman-01)</p>
1:20pm	Bart Croes and Elizabeth Scheehle, <i>California Air Resources Board</i>	<p>Perspectives on California's ambitious GHG mitigation targets</p> <p>(PIs: Andrews-03, Baker-01, Bowman-02, Ganguly-01, Greenberg-01, Hudak-01, Jacob-02, Williams-C-01, Windham-Myers-01, Dubayah-04, Duren-01, Escobar-01, Graven-01)</p>
Afternoon Break		
2:00pm	Panel: Q & A with Speakers	
2:30pm	WRI Initiative 20x20 Team, <i>World Resources Institute</i>	<p>International MRV in Latin America</p> <p>(PIs: Andrews-03, Morton-01, Walker-W-01, Asrar-West-04, Cochrane-01, Collatz-02, Dubey-01, Duren-01, Escobar-01, Hagen-01, Keller-01, Kellndorfer-03, Vargas-01, Houghton-02)</p>
2:50pm	Kate Larsen, <i>Rhodium Group</i>	The International and National MRV

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		Landscape (PIs: Andrews-02, Baker-01, Bowman-02, Fatoyinbo-01, Jacob-02, Morton-01, Ott-01, Walker-W-01, Williams-C-01, Windham-Myers-01, Asrar-West-04, Cochrane-01, Cohen-02, Collatz-02, Dubey-01, Duren-01 , Escobar-01, Hagen-01, Keller-01, Kellndorfer-03, Lauvaux-01, Stehman-01, Vargas-01)
3:10pm	Pending Speakers Confirmation Media Session	How GHG emission data might be interpreted and consumed by the media, public and policymakers?
3:30pm	Panel: Q & A with Speakers	
4:00pm	Afternoon Break	
4:15pm	Break Out Session	
	Discuss the details of individual CMS products and how they will/will not satisfy MRV, policy and GHG. Address what do stakeholders need/want?	
	<ol style="list-style-type: none"> 1. Breakout #1 <i>Room location</i> 2. Breakout #2 <i>Room location</i> 3. Breakout #3 <i>Room location</i> 4. Breakout #4 <i>Room location</i> 	
	Questions for each working group to address:	
	<ul style="list-style-type: none"> ➤ What are the specific stakeholder needs that could potentially be addressed by current or future CMS data products? ➤ What <i>actions can stakeholders take with NASA</i> to evaluate and/or incorporate CMS data products into decision making? ➤ What are the main challenges to expressing uncertainty for each theme? 	
	Outcomes:	
	<ul style="list-style-type: none"> ➤ Each group should create a list of challenges, opportunities, data format and requirements, uncertainty considerations, and a plan for implementation (if appropriate). ➤ Each group must <i>report at least two action items</i> (one designated for CMS, the other for the stakeholder) that identify the next step forward in helping connect the science to the decision process. 	
5:00pm	Reports back from groups (5 minutes each)	Designated reporter with 1 page report and action items moving forward
5:30pm	Open discussion and identification of actions forward for each policy MRV scale – Facilitated by George Hurtt and Vanessa Escobar	
6:00pm	Vanessa Escobar, <i>CMS Applications Coordinator</i>	Summary of workshop and actions moving forward. Closing remarks.
6:15pm	CMS Applications Social and Dinner at (Location TBD)	