

DRAFT

Updated October 22, 2014

NASA CMS Applications Workshop
Linking CMS Products to Decision Makers and Stakeholders
Double Tree Hotel, Bethesda Maryland
Wednesday, November 12, 2014

NASA Carbon Monitoring System (CMS)

Goals of the CMS Applications Workshop:

- *Identify the challenges and needs of communities that are interested in carbon Monitoring, Reporting and Verification (MRV) products, and provide information on value of CMS applications – including exploration of key “what?” and “how?” questions for carbon data.*
- *Link CMS community to policy end users, decision makers and regulatory agencies to ensure maximum benefit of the projects to society.*
- *Identify products that are relevant and ready for use by stakeholders and decision makers.*
- *Review the CMS product table and identify CMS data products that align with stakeholders (identifying potential Early Adopters).*

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 Early Adopters.*
- *Identify potential Early Adopters (stakeholders) to demonstrate how CMS products may impact decision processes or what CMS products are needed in terms of carbon data at their facilities.*

Wednesday, November 12th 2014

8:30am	Registration	
9:00am	George Hurtt, <i>CMS Science Team Leader</i> , & Peter Griffith, <i>Director of NASA Carbon Cycle & Ecosystems Office</i>	CMS Science Team Meeting Welcome
9:15am	Diane Wickland & Kenneth Jucks, <i>NASA HQ</i>	Welcome, Introduction of carbon cycle and CMS congressional direction
9:30am	Vanessa Escobar, <i>Missions Applications Deputy Coordinator</i>	CMS Applications Activity Welcome, CMS Applications Program, Early Adopters and the value of engagement of users for CMS science
9:30am - 10:00am	Brief round 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?	

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10:00-10:15am	Morning Break	
	Speaker	Topic
10:15am	Robert Feldt, <i>Maryland Department of Natural Resources Forest Service</i>	Example of an existing local biomass data user and the decision biomass products will support <i>(PIs: Dubayah, Ganguly, and Hurtt)</i>
10:35am	Bart Croes, <i>Research Division of California Air Resources Board</i>	Examples of carbon data needed for air quality policy <i>(PIs: Graven, French, Jacob, Collatz, Bowman, Pawson, Ott, Andrews, Huntzinger)</i>
10:55am	Tom Robinson and Karen Gaffney, <i>Sonoma County Agricultural Preservation and Open Space District</i>	Example of multi-CMS products integration for decision making at the local scale <i>(PIs: Dubayah, Greenberg, Saatchi, Ganguly, Williams, Kennedy, Graven, and/or Windham-Myers)</i>
11:15am	Kent Elliott, <i>Asia-Pacific Program at USDA Forest Service</i>	Example of REDD+ MRV use of biomass data <i>(PIs: Hagen, Cochrane, and Houghton)</i>
11:35am	Panel: Q & A with Speakers	
LUNCH 12:00pm-1:30pm at *Lunch Facility*		
1:30pm	Jeff Watters and Sarah Cooley, <i>Ocean Acidification Program of Ocean Conservancy</i>	Example of what ocean flux data can be used for decision support <i>(PIs: Lohrenz, Verdy, Pawson, Bowman, Ott, Behrenfeld, Balch)</i>
1:50pm	Leif Hockstad, <i>Climate Change Division of US EPA</i>	Example of how flux data will support policy. What is the timing for EPA to address next policy efforts – focus on energy and methane? (32 Projects: Flux & Biomass) <i>22 Land-Atm Flux (Emissions): Jacob-01, Jacob-02, French-03, Collatz-02, Saatchi-02, Williams-C-01, West-03, West-04, Graven-01, Nehr Korn-01, Lohrenz-04, Lohrenz-05, Windham-Myers-01, Bowman-01, Bowman-02, Pawson-01, Ott-01, Andrews-02, Andrews-03, Huntzinger-01, Baker-01, Dubey-01,</i> <i>8 Land Biomass (Sinks) + [2 Additional if including Alaska]: Ganguly-01, Dubayah-03, Dubayah-04, Hurtt-03, Kennedy-01, Cohen-02, Greenberg-01, Hudak-01 [Kasischke-03 and Nelson -03]</i>
2:10pm	Christine Dragisic, <i>REDD+ Focal Point of US State Department</i>	Example of data needs for land sector <i>(PIs: Hagen, Cochrane, Vargas, Healey, Houghton, Josef Kellndorfer, Keller, Fatoyinbo,</i>

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		<i>Morton, Walker, Hudak, Dubey, Miller, and Stehman</i>
2:30pm	Kate Larsen, <i>Rhodium Group</i>	<i>Example on climate policy and economic dimensions</i> <i>(PI: Tris West)</i>
2:50pm	<i>Panel: Q & A with Speakers</i>	
3:15pm	Afternoon Break	
3:30pm - 4:15pm	Break Out Session - Groups by Theme	
	<p>Discuss the details of individual CMS Products and how they will/will not satisfy groups and policies. Address what do stakeholders need/want?</p> <ol style="list-style-type: none"> 1. Subnational MRV 2. National MRV 3. International MRV 4. Oceans MRV <p>Questions to for each working group to address:</p> <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 actions can stakeholders take with NASA to evaluate and/or incorporate CMS data products into decision making? ➤ What are the main challenges to expressing uncertainty for each theme? <p>Outcomes:</p> <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 report at least two action items (one designated for CMS the other for the stakeholder) that identify the next step forward in helping connect the science to the decision process. 	
4:15pm	Reports back from groups (5 minutes each)	<i>Designated reporter with 1 page report and action items moving forward</i>
4:45pm	Open discussion and identification of actions forward for each policy MRV scale – Facilitated by George Hurtt and Vanessa Escobar	
5:40pm	Vanessa Escobar	<i>Summary of workshop and actions moving forward. Closing remarks.</i>
<i>CMS Applications Meeting Adjourn</i>		