

## Science and Technical Working Group Meeting

### Minutes of the June 14, 2019 Meeting

#### UMCES Annapolis Office 10-12

In Attendance: Peter Goodwin (Chair), Eric Davidson, Russ Dickerson, Jane Kirchling, Amir Sapkota, Dave Vanko, Dave Nemazie (staff)

Doyeon Ahn, Paul Berman, Suzanne Dorsey, Jason Dubow, Debbie Herr Cornwell, Brian Hug, Treasury Kopp, Kate McClure, Dorothy Morrison, Ryan Osco, Steve Pattison, Scott Zacharico,

#### *Welcome and Introductions*

Dr. Peter Goodwin, STWG Chair

#### *Update from the MCCC*

Brian Hug, MDE

Structure of GGRA will be released next week @ the 20 June MCCC, emission and economic models as they related to the plan are still being finalized then. On 16 July, the MWG will receive details on the emission modeling. *STWG members are encouraged to attend.*

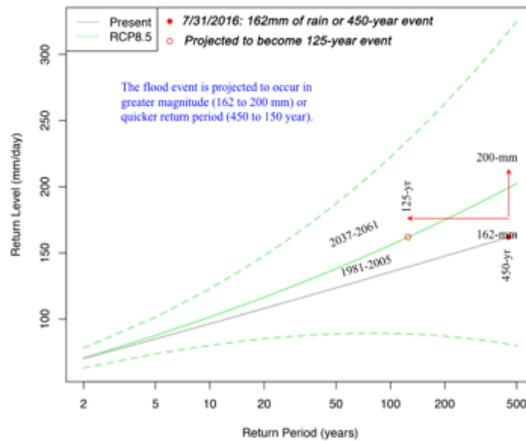
#### *Monitoring of Emissions*

Dr. Russ Dickerson, UMCP

Presented preliminary results from recent monitoring of emission for the region. Emissions of methane have not increased as tighter controls appear to be working (<1%). However, the delivery system seems to be leaking bad particularly in cities where old gas line infrastructure and sewage lines are leaking.

Inventories for CO<sub>2</sub> are in range of other estimates by MDE, EPA, and others.

Prof. Xin-Zhong Liang, UMD  
Ellicott City Return Level Projections



The causes of SLR and increases to perception remain the same – climate change caused by GHG emissions. Storminess is likely to increase. Feedback mechanisms are points to improve the models.

This led to a discussion on flooding regarding dam management and developing a risk (aka vulnerability) model. For example, there may be some high vulnerability but low hazard flooding, or high hazard flooding with a low probability. How and where to make these decisions. Consideration should go beyond dams and include power transmission, gas lines, roads and weirs, etc.

*Final Review of the 2019 Work Plan for the Science and Technical Work Group*  
Peter Goodwin

Waiting on the GGRA plan before finalizing

*Climate Change Impact on Human Health*  
Group Discussion

The STWG agreed to move forward on planning an initial meeting on the impact of climate change on human health to determine if past work should be updated based on new data (environmental and human) and information. An initial meeting will take place between a small group of STWG members (Jane Kirchling and Amir Sapkota) and a few external experts (such as Cliff Mitchell) and interested parties (such as Senator Lam).

*Review of the DRAFT Maryland Saltwater Intrusion Plan*  
Jason Dubow and Debbie Herr Cornwell, MDP

MDP led the development of a DRAFT report to adapt to saltwater intrusion that include input from Sea Grant, MDE, DNR, MDA, among others. This report was partially based on

interviewing subject matter experts. They are looking to a relatively fast technical review process by practitioners and scientists, particularly on the adaptation & research recommendations.

Particular areas for the STWG members to focus on include:

- Surface water – needs review – prioritization research needs
- Wetlands – needs review - prioritization research needs
- Coastal Forests – needs review- prioritization research needs

The DRAFT Saltwater Intrusion Plan was sent to STWG for review before 1 July.

#### *Coordination with the Chesapeake Bay Program STAC*

Peter Goodwin

There was a discussion about how to coordinate MCCC Work Group initiatives with the Chesapeake Bay Program STAC. Pursue the possibility of organizing a meeting between the various regional “climate change commissions” and the CBP.

#### *Coordinating the Schedule between the STWG and MCCC Meetings*

Dave Nemazie, UMCES

Future meetings of the STWG will likely be based on the GGRA release and updated timeline for review and input.

The Chair of the STWG will also review the membership either for specific expertise

#### *Wrap-Up and Next Steps*

Peter Goodwin

As the meeting was closing a few additional items came up for consideration:

- 1) The P3 lane expansion on 495 and 270 and its impact on emissions should be considered by experts in emissions and transportation planning as these projects are likely to last for 50-100 years. A small group meeting will be organized that includes expertise from the STWG (Russ Dickerson, Gerrit Knaap), and state agencies particularly MDOT and MDE.
- 2) A regional meeting of the Transportation and Climate Initiative will take place on 30 July in Baltimore with the focus on Low Carbon Investments, Strategies, and Outcomes. STWG member will be invited to attend. Space will be limited. Information and registration - [www.transportationandclimate.org/public-workshop-low-carbon-transportation-investments-strategies-and-outcomes](http://www.transportationandclimate.org/public-workshop-low-carbon-transportation-investments-strategies-and-outcomes)

11:50 Public Comments

None