



Maryland Adaptation and Response Working Group

Meeting #3 – October 1, 2007

Maryland Department of Natural Resources
Maryland Department of Planning
The Center for Climate Strategies

Welcome and Introductions

- Maryland Department of Natural Resources
- Maryland Department of Planning
- Maryland Adaptation and Response Working Group (ARWG) Members
- Members of the Public
- Center for Climate Strategies

Agenda

- Welcome & Introductions
- Presentation from the Science & Technical Working Group on Climate Impacts Facing Maryland
– *Dr. Don Boesch, UMD-CES*
- ARWG TWGs, Process, and Schedule
- Draft Maryland Synthesis Report
- Draft Catalog of State Adaptation Options
- TWG Break-Out Sessions to Consider Catalog and Interim Report Recommendation
- Next Steps, Public Input, and Announcements
- Agenda, Time & Date for Next Meeting; Future Dates

October 1, 2007

www.mdclimatechange.us
© 2007 CCS

3

ARWG TWGs, Facilitators

ARWG Technical Work Groups (TWGs)	Facilitator
<i>Existing</i> Built Environment and Infrastructure	TBD (plus Kirstin Dow)
<i>Future</i> Growth and Development in Built Environment and Infrastructure	Kirstin Dow
Human Health, Safety, and Welfare	Kris Ebie
Natural Resources and Resource-Based Industries	Amy Luers

October 1, 2007

www.mdclimatechange.us
© 2007 CCS

4

ARWG Stepwise Planning Process

- | | |
|--|--------------|
| 1. Prepare Synthesis Report | - Ongoing |
| 2. Identify a full range of possible actions | - Oct. 1, 19 |
| <i>Next MCCC meeting</i> | - Oct. 17 |
| 3. Identify initial priority options for analysis
(including 4-5 solid fast-track policy options) | - Nov. 2 |
| <i>Interim Report to MCCC for approval</i> | - Nov. 14 |
| 4. Develop straw proposals for priority options | - Dec. 7 |
| 5. Analyze effectiveness | - |
| 6. Evaluate feasibility issues | - Jan. 11 |
| 7. Develop alternatives to address barriers | - Feb. 8 |
| 8. Aggregate results | - Mar. 7 |
| 9. Iterate to final agreements | - |
| 10. Finalize and report recommendations | - Apr. 11 |

October 1, 2007

www.mdclimatechange.us
© 2007 CCS

5

Draft Maryland Synthesis Report: *Maryland Vulnerable Sector Inventory and Adaptation Baseline*

- Introduction
- Climate Information
- Coastal Infrastructure and Resources
- Human Health
- Natural Resources and Aquatic Ecosystems
- Agriculture and Forestry
- Adaptation Metrics
- References and Appendices

October 1, 2007

www.mdclimatechange.us
© 2007 CCS

6

Full Range of Possible Actions: Catalog of State Adaptation Options

- Focus on sea level rise and associated impacts
- Actions undertaken or considered by a variety of US states (and elsewhere)
 - Broad array of sectors, issues
 - Broad array of implementation mechanisms
- Starting place for the ARWG to identify priority options for further consideration

October 1, 2007

www.mdclimatechange.us
© 2007 CCS

7

Key Initial Steps

- Option identification
 - Develop “catalog” of adaptation policy options
- Initial Screening
 - Conduct initial screening of adaptation options using qualitative evaluation metrics
- Prioritization
 - Select adaptation options for further analysis using targeted evaluation metrics

October 1, 2007

www.mdclimatechange.us
© 2007 CCS

8

Suggested Qualitative Metrics

- Capital Intensity
 - What are the costs of the measure?
- Flexibility
 - How readily can the measure accommodate future corrective actions?
- Adaptive Capacity
 - What is the degree of climate risk reduction achieved?

October 1, 2007

www.mdclimatechange.us
© 2007 CCS

9

Example of Initial Screening Using Suggested Qualitative Metrics

Option No.	Adaptation Policy Option	Flexibility	Capital Intensity	Adaptive Capacity	Option Prioritization	Level of Consensus	Notes
1	(Managed) Retreat						
1.1	Site industrial systems away from areas vulnerable to changes in weather conditions						
1.2	New building codes, design standards including setback zones and phased-out or no development in exposed areas						
1.3	Relocation of threatened structures						
1.4	Creating upland buffers						

Source:
UKCIP

October 1, 2007

www.mdclimatechange.us
© 2007 CCS

10

Categories of Options: Existing Built Environment and Infrastructure

- (Managed) Retreat
- Protection
- Accommodation

October 1, 2007

www.mdclimatechange.us
© 2007 CCS

11

Categories of Options: Future Growth and Development in Built Environment and Infrastructure

- (Managed) Retreat
- Protection
- Accommodation

October 1, 2007

www.mdclimatechange.us
© 2007 CCS

12

Categories of Human Health & Public Safety Options

- Disease Prevention: Vector-borne diseases, Water-borne diseases
- Acclimatization, resilience to thermal extremes
- Mitigate mortality and morbidity from extreme weather events

October 1, 2007

www.mdclimatechange.us
© 2007 CCS

13

Categories of Options: Human Health, Safety and Welfare

- Disease Prevention
- Acclimatization
- Mitigate Mortality and Morbidity from Extreme Weather Events

October 1, 2007

www.mdclimatechange.us
© 2007 CCS

14

Categories of Options: Natural Resources and Resource-Based Industries

- Agricultural Industries
- Terrestrial Resources
- Water Resources
- Marine Ecosystems

October 1, 2007

www.mdclimatechange.us
© 2007 CCS

15

Catalog of State Adaptation Options

- TWGs encouraged to add additional options
 - Maryland breaking new ground
 - Will set the standard
- After ARWG approval of catalog (based on comprehensive set of options), TWGs will screen options & recommend priorities for further analysis

October 1, 2007

www.mdclimatechange.us
© 2007 CCS

16

Break



October 1, 2007

www.mdclimatechange.us
© 2007 CCS

17

Next Steps

- Break-Out TWG Meetings Today
- TWG Teleconference Meetings
 - Review and expand catalog for ARWG approval
 - Prepare to recommend initial priorities
 - Interim Report Recommendations

October 1, 2007

www.mdclimatechange.us
© 2007 CCS

18

Next ARWG Meeting

- Date, Time and Location:
 - October 19, 2007
 - Time
 - Location TBD
- Agenda:
 - Add missing actions to catalog
 - Prepare to identify initial priorities for analysis
 - Consider recommendations for Interim Report



October 1, 2007

www.mdclimatechange.us
© 2007 CCS

19

Public Input, Announcements

October 1, 2007

www.mdclimatechange.us
© 2007 CCS

20