



Maryland Adaptation and Response Working Group

Meeting #7 January 11, 2008

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

Agenda

- Welcome & Introductions
- MCCC Update
- ARWG Process and Goals for Today's Meeting
- Review and Approval of Proposed Common Options Process
- Overview of Straw Proposal Template
- Working Lunch
- Review and Approval of Common Options
- Review and Approval of Exclusive Options
 - Existing Built Environment & Infrastructure TWG
 - Future Built Environment & Infrastructure TWG
 - Natural Resources & Resource-Based Industries TWG
 - Human Health, Safety & Welfare TWG
- Public Input, Announcements, & Next Steps

Process and Goals

- Option identification (full catalog)
- Initial Screening, then Balloting by TWGs
- ARWG Approval of TWG proposed Priority Options (with recommendations for consolidation of common options)
- ARWG Approves process for addressing Common Options
- ARWG Approves Common & Exclusive Options conceptually as amended
- Full Characterization of Priority Options by TWGs (called Straw Proposals at this point)

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ARWG Planning Process Timeline

- | | |
|---|-----------|
| 1. Prepare Synthesis Report | - Ongoing |
| 2. Identify a full range of possible actions | - Oct. |
| <i>Identify 1-3 options for Interim Report</i> | - Nov. |
| 3. Identify priority options for analysis | - Dec. |
| 4. Develop straw proposals for priority options | - Jan. |
| 5. Analyze effectiveness | - Feb |
| 6. Evaluate feasibility issues | - |
| 7. Develop alternatives to address barriers | - Mar |
| 8. Aggregate results | - |
| 9. Iterate to final agreements | - Apr |
| 10. Finalize and report recommendations | - TBD |

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Common Issues Proposal

1. Issues common to 2 or more TWGs will be aggregated and assigned to one TWG for leadership
2. Volunteer sub-groups will prepare straw proposals
3. Sub-groups for common issues will include members from TWGs sharing interest in common issue

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Template for Characterizing Priority Options (Straw Proposals)

- Option Description
- Option Design (Target, Timing, Parties, etc.)
- Implementation Mechanisms
- Related Policies/Programs in Place
- Estimation of Adaptation Benefits & Costs
- Documentation of Adaptation Benefits & Costs
- Additional Benefits & Costs
- Feasibility Issues
- Status of Group Approval
- Barriers to Consensus

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Common Options

Existing Built Environment & Infrastructure

- **COASTAL PROTECTION EVALUATION**
EBEI – 6 Assessment of Coastal Zone
Adaptation Options + FBEI-7 Evaluate
Shoreline Protection Structures
- **BUILDING STANDARDS**
EBEI – 8 Building Code Revisions + FBEI-3
New Design Standards and Codes to Facilitate
Retreat, Avoid SLR Risks and Increase
Resilience

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Common Options (pg. 2)

Future Built Environment & Infrastructure

- **PLANNING**
FBEI-1 Integrated Planning for SLR and Associated
Coastal Hazards + RRI-5 Watershed Planning and
Management + RRI-2 Community Realignment Plans
+ EBEI – 7 Adaptation Planning
- **VULNERABLE AREA INVENTORY,
MAPPING AND MONITORING**
FBEI-6 Monitor, Map and Inventory SLR and
Vulnerable Areas and Properties + RRI-3 Monitoring
programs + EBEI- 5 Inventory of the Vulnerability of
Coastal Zone Infrastructure

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Common Options (pg. 3)

Human Health, Safety and Welfare

- **HAZARD PREPAREDNESS & EARLY WARNING SYSTEMS**

**HHSW-4 Emergency Capacity Support +
HHSW-6 Early Warning Systems + EBEI – 9
Hazard Preparedness**

- **PUBLIC AWARENESS**

**HHSW-10 Vector- and Waterborne Disease
Awareness and Education + RRI-6 New
Guidelines for Local Planning + EBEI - 1
Public Awareness**

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Common Options (pg. 4)

Human Health, Safety and Welfare (con.)

- **TRAINING AND CAPACITY BUILDING**

**HHSW-7 Education and Training for
Emergency Medical Services Personnel +
HHSW-11 Awareness and Early Warning (just
the part focusing on outreach to key
community leaders) + HHSW-8 Protection of
Service and Security Infrastructure + FBEI-9
Training and Capacity Building + HHSW-9
Vector-borne Surveillance and Control
Programs**

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Common Options (pg. 5)

Resources and Resource-Based Industries

- **REVISION AND DEVELOPMENT OF LEGISLATION RELATED TO SEA LEVEL RISE**

RRI 7 – Modify Environmental Protection Regulations + FBEI-2 Mandate Integration of MD CCC Findings and Recommendations into All Appropriate State and Local Programs

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Balancing Work Load

- EBEI - 4 exclusive + 2 common = 6
- FBEI - 3 exclusive + 2 common = 5
- HHSW- 7 exclusive + 3 common = 10
- RRI - 6 exclusive + 1 common = 7

Should 1 or more be shifted from HHSW and spread to other TWGs?

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Break



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Exclusive Options

Existing Built Environment & Infrastructure

- **EBEI - 2 Observation System for Changes in Coastal Zones**
- **EBEI - 3 Adaptation of Vulnerable Coastal Infrastructure**
- **EBEI – 4 Inundation Mapping**
- **EBEI – 10 Disclosure**

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Exclusive Options (pg. 2)

Future Built Environment & Infrastructure

- **FBEI-4 Preserve Underdeveloped, Vulnerable Lands**
- **FBEI-5 Create a Climate Change and Insurance Commission**
- **FBEI-8 Economic Development Initiative**

Exclusive Options (pg. 3)

Human Health, Safety and Welfare

- **HHSW-1 Health Impacts Assessments of the Climate Change Action Plan**
- **HHSW-2 Inter-governmental Coordination**
(new title - Coordination Across Agencies Responsible for Human Health and Safety)
- **HHSW-3 Uniform Indicators and Data Standards**

Exclusive Options (pg. 4)

Human Health, Safety and Welfare (con.)

- **HHSW-4 Emergency Capacity Support** (*revised title - Public Health Surge Capacity Support*) was under **Hazard Preparedness & Early Warning Systems**
- **HHSW-5 Coordinate Disaster Response Plans with Long Range Planning** (*revised title - Public Health Response Plans for Large Scale Floods, Storms & Storm Surges*)

Exclusive Options (pg. 5)

Human Health, Safety and Welfare (con.)

- **HHSW-9 Vector-borne Surveillance and Control Programs**
Request to re-instate:
- **HHSW-11 Heat Wave Awareness and Early Warning**

Exclusive Options (pg. 5)

Resources and Resource-Based Industries

- **RRI-1 New Criteria for Identifying Priority Protection Areas**
- **RRI-4 Forest Protection**
- **RRI-8 Impacts Assessment of Fish Stocks and Habitat**
- **RRI-9 Community Sustainability**
- **RRI-10 Promote Sustainable Shorelines**
- **RRI-11 Creation and Restoration of Wetlands**

Next Steps for TWGs

- Make any modifications to options framework as directed by ARWG
- Identify sub-groups to develop each straw proposal
- Ensure cross-TWG representation on common options
- Focus on Description, Design and Implementation Mechanisms.

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Next Steps for ARWG

- Approve/modify straw proposals developed by TWGs to characterize priority options
- Consider any necessary modifications to Draft Maryland Synthesis Report:
Maryland Vulnerable Sector Inventory and Adaptation Baseline

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Public Input, Announcements

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Next ARWG Meeting

- **Date, Time and Location:**
 - Friday, February 19, 2008
 - 10:00 AM to 4:00 PM
 - Location: TBD
- **Agenda:**
 - Approve work to date on straw proposals developed by TWGs
 - Consider any necessary modifications to Draft Maryland Synthesis Report:



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Future Meetings

February 8, 2008

March 7, 2008

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Thanks for coming!



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Human Health, Safety and Welfare

- HHSW-1: Health Impact Assessments
- HHSW-2: Inter-Governmental Coordination
- HHSW-3: Surge Capacity Across All Sectors
- HHSW-4: Uniform Data Standards
- HHSW-5: Surge Capacity Support
- HHSW-6: Disaster Response Plans
- HHSW-7: Early Warning Systems

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Human Health, Safety and Welfare

- HHSW-8: Education and Training for Emergency Medical Services Personnel
- HHSW-9: Protection of Service and Security Infrastructure
- HHSW-10: Vector-borne Surveillance and Control Programs
- HHSW-11: Vector- and Waterborne Disease Awareness and Education
- HHSW-12: Responding to Heat Wave Crises

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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

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