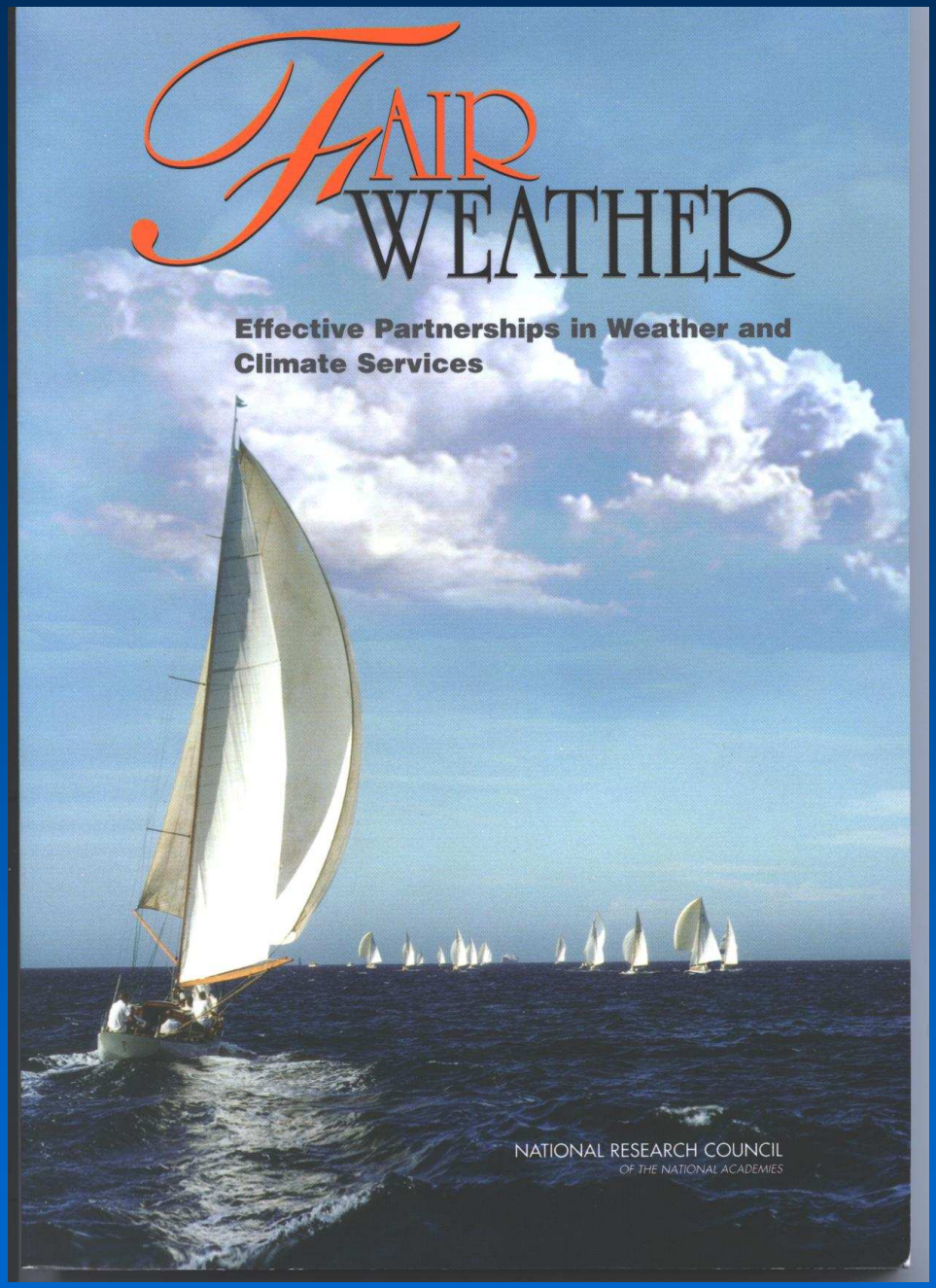
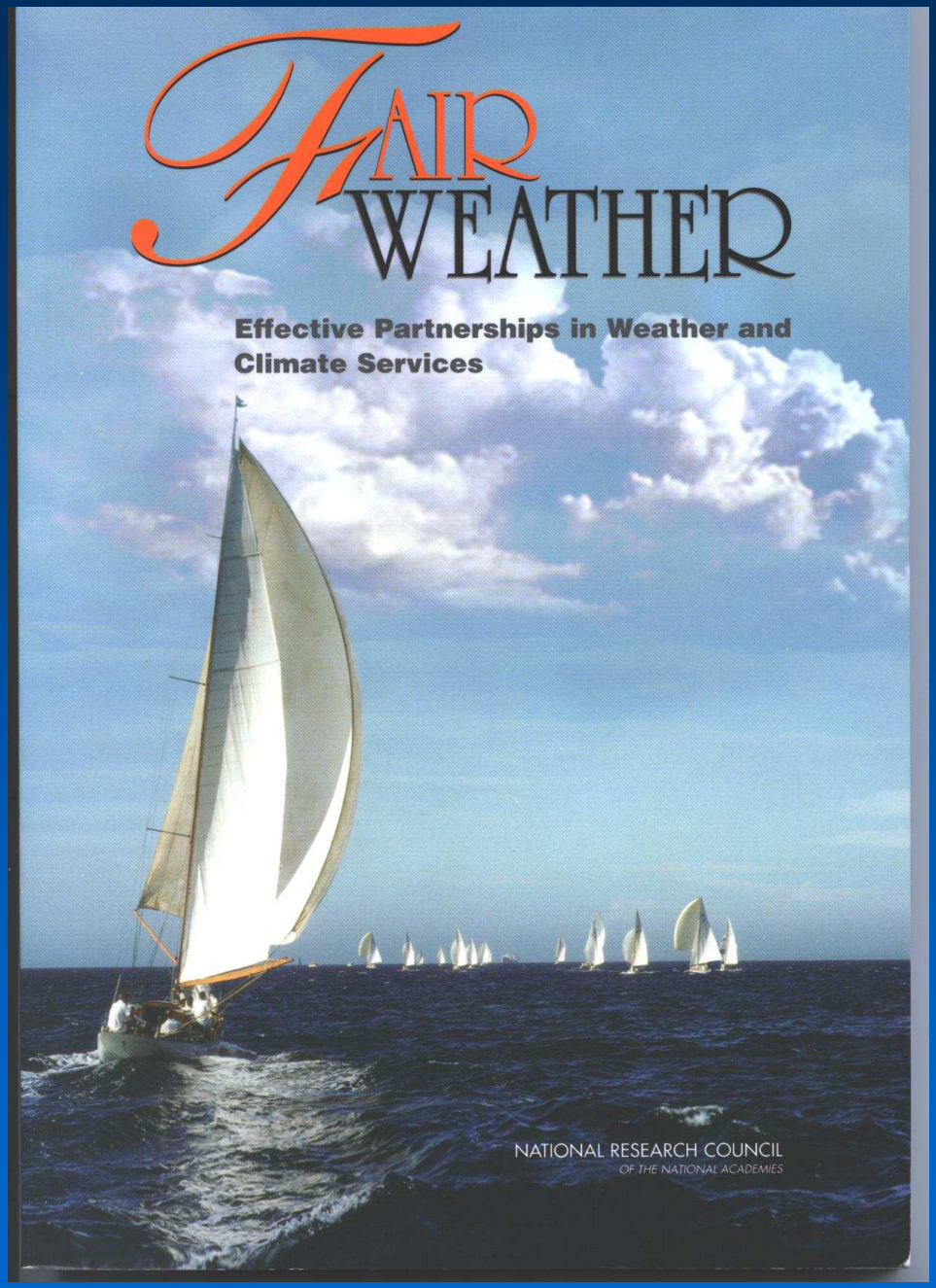
Overview of AMS Commission on the Weather and Climate Enterprise



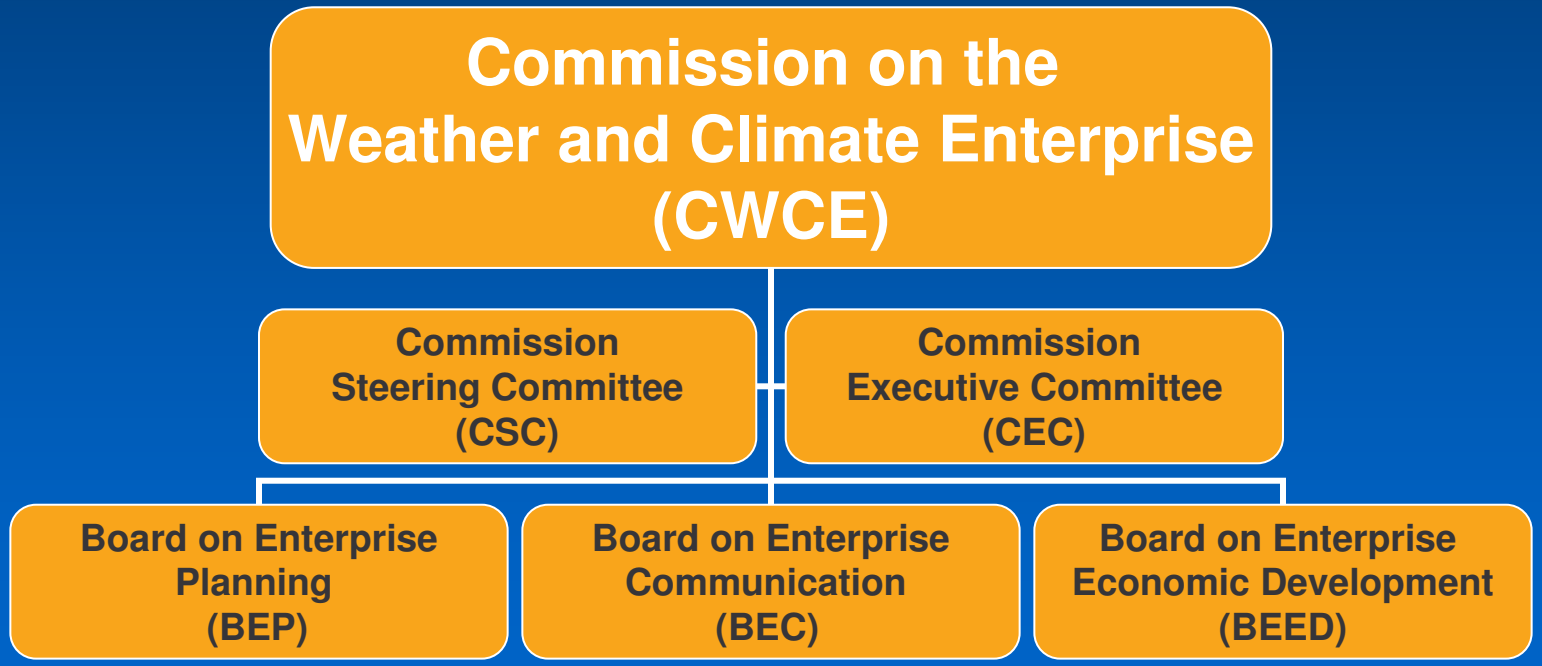
- **NRC Committee Formed in 2001 at the request of NOAA/NWS**
  - Decades of evolving policy regarding weather services have produced two results for the U.S.
    - 1. Scope and diversity of services **second to none**
    - 2. Overlapping roles and **occasional friction** between NWS and private service providers.
- **Study conclusions**
  - The NRC Committee judged this **friction to be an acceptable price to pay** for excellent weather services,
  - but also concluded that it could be **ameliorated.**



- **Report Contained 11 recommendations**
- **Recommendation 3**
  - *The NWS and relevant academic, state, and private organizations should seek a* ***neutral host****, such as the* ***American Meteorological Society,*** *to provide a* ***periodic dedicated venue*** *for the weather enterprise as a whole to discuss issues related to the public-private partnership.*

A New Commission For The American Meteorological Society

Approved



Guidelines

- The Commission provides **venues** for enterprise participants to meet and discuss issues of importance to the enterprise. All **findings and reports** resulting from Commission activities are **directed to the AMS Council**.
- The Commission and its activities **facilitate dialogue** between enterprise participants.
- Commission activities **operate within the overall mission of the American Meteorological Society** as a scientific and professional society.

Council Approved (Sep 05) Terms of Reference for Weather and Climate Enterprise Commission

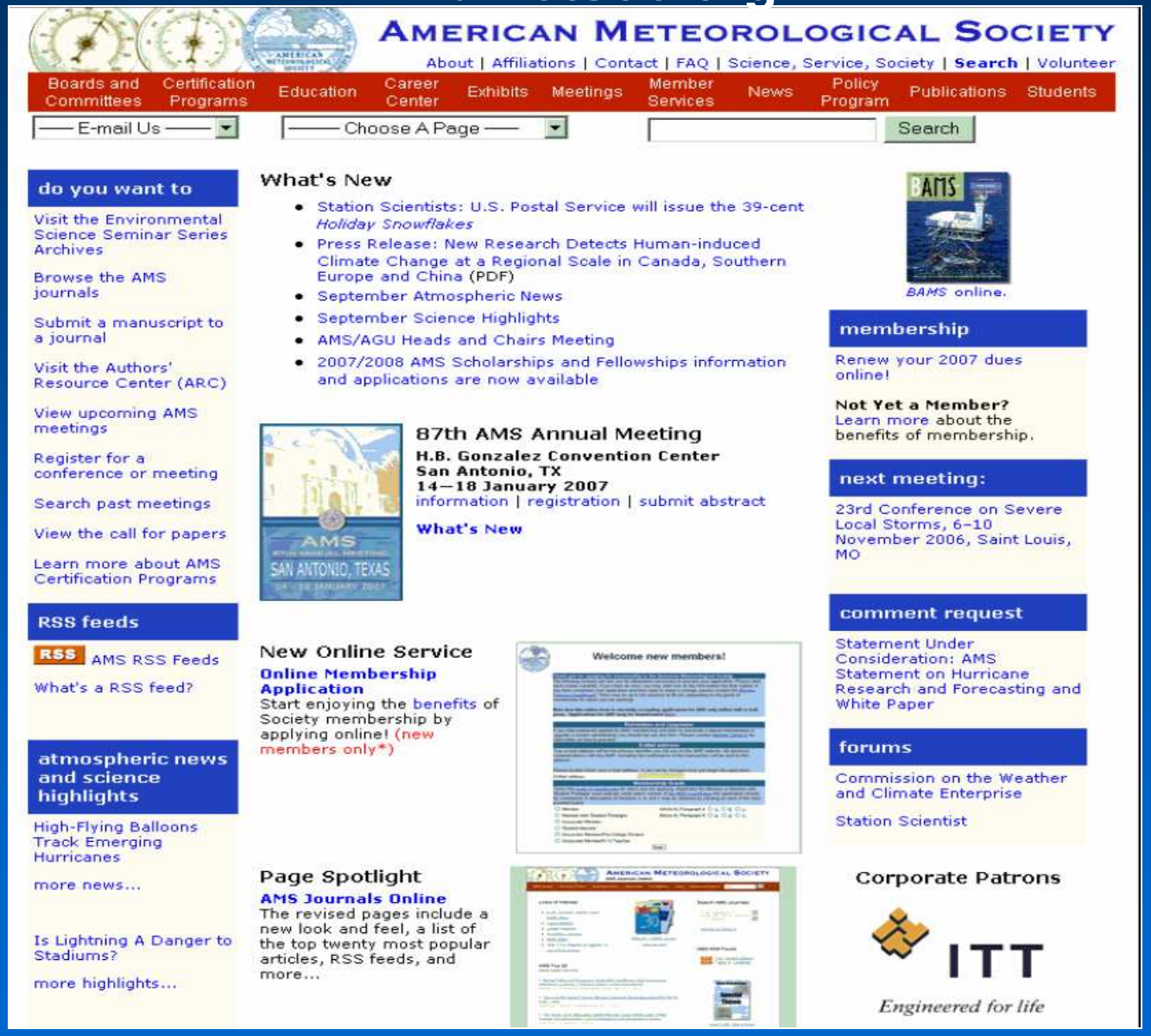
- Membership :
  - A Commissioner (three-year term on rotating basis from each sector)
  - The Chairpersons of the constituent Committees/Boards
- Special Responsibilities and Authority:
  - To develop and implement **programs that address the needs and concerns of all sectors** of the weather and climate enterprise;
  - **promote a sense of community** among government entities, private sector organizations, and universities;
  - **foster synergistic linkages** between and among the sectors;
  - **entrain and educate user communities** on the value of weather and climate information;
  - and provide appropriate **venues and opportunities for communications that foster frank, open, and balanced discussions** of points of contention and concern.

Venues & Outreach

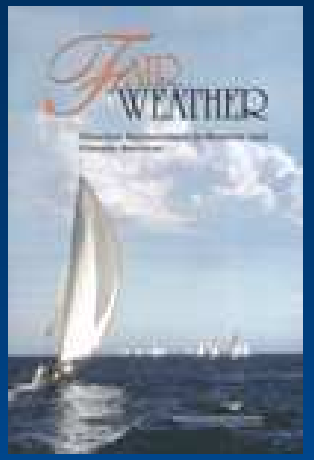
- **Venues** for the topic discussions will have a variety of formats-
  - **Workshops**
  - **Special Symposia**
  - **Conference Sessions**
  - **Web casts**
- **Outreach** activities to help identify user needs and promote the capabilities of the meteorological community include-
  - **Sponsoring corporate fora**
  - **Promoting support & services to weather sensitive industries**
  - **Advertising at tradeshows**
  - **Fostering favorable policies & procedures**
- Establishing a more **prominent web presence** for internal communication within the community on topics of interest, outcome of workshops, and other Commission activities.

Venues & Outreach

www.ametsoc.org



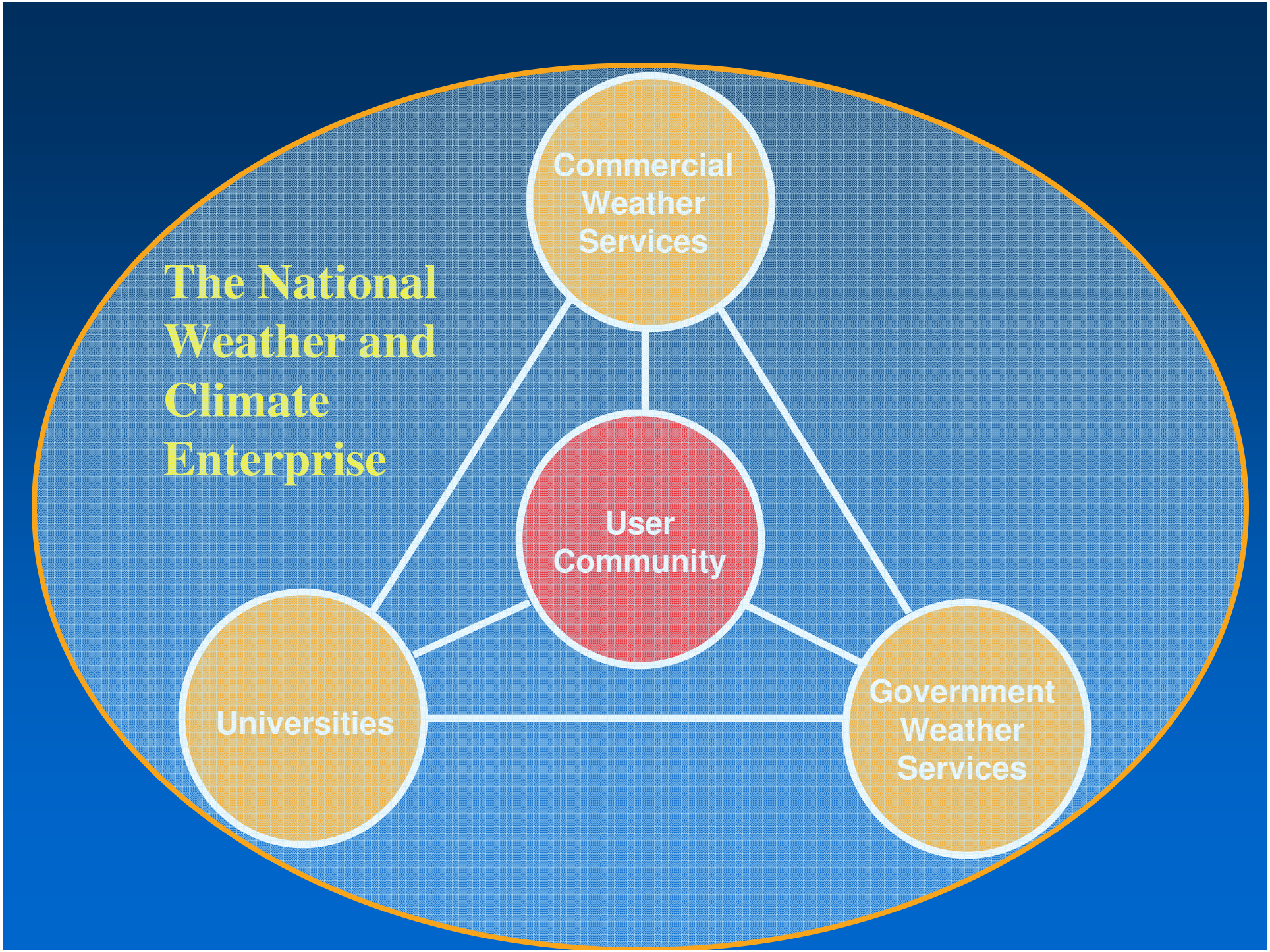
AMS Commission on the Weather and Climate Enterprise



Fair Weather report recommendation 3:

> *The NWS and relevant academic, state, and private organizations should seek a neutral host, such as the American Meteorological Society, to provide a periodic dedicated venue for the weather enterprise as a whole to discuss issues related to the public-private partnership.*

The Enterprise Commission will go well beyond the *Fair Weather* recommendation, to consider relevant issues throughout the enterprise and not just those associated with the NWS.

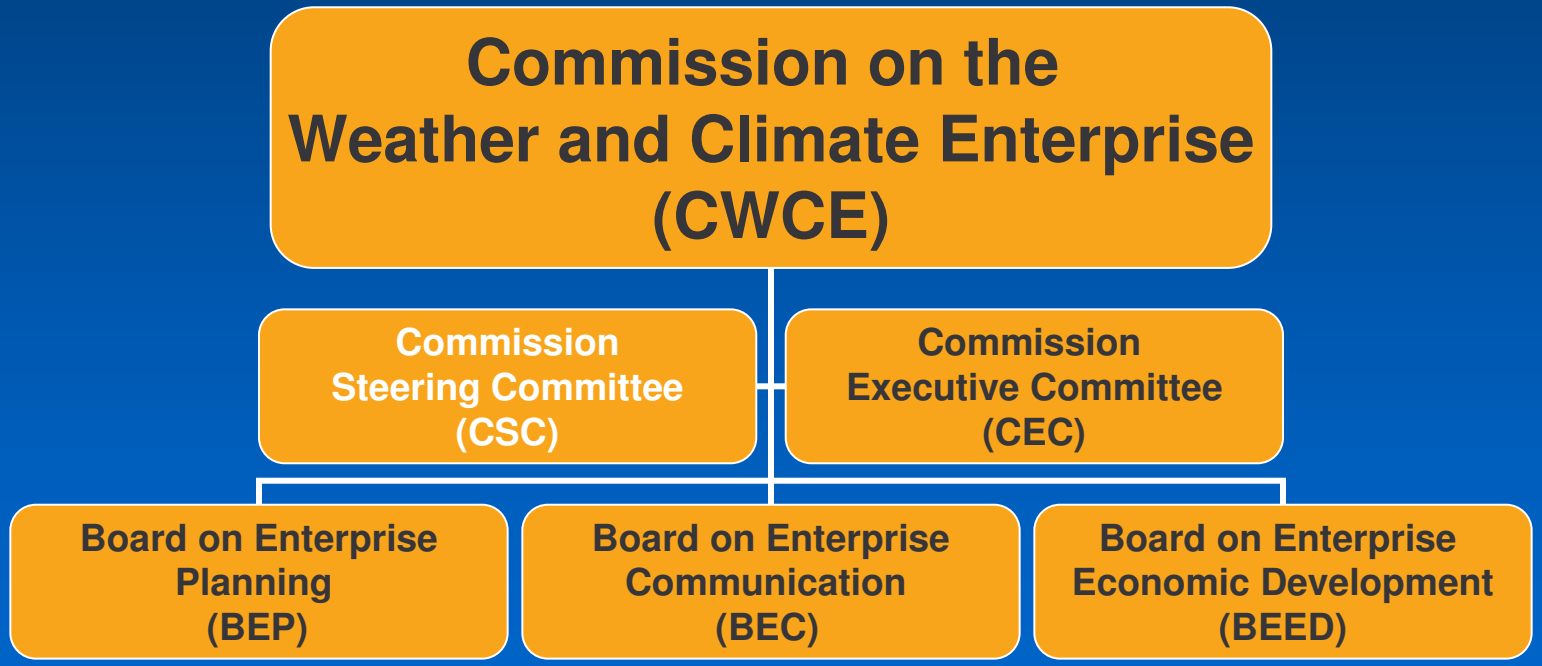

The National Weather and Climate Enterprise
Commercial Weather Services
User Community
Universities
Government Weather Services

The Weather and Climate Enterprise

The nation's weather and climate enterprise is conducted by many parties who ***provide*** information to many who ***use*** this information. For convenience in exposition, the **providers are** typically grouped into three sectors – **government, private sector, and the academic community** – although the enterprise as a whole **includes non-governmental organizations, international organizations, private citizens, and others**. Each of the **three provider "sectors"** is quite **diverse**: Government includes federal agencies (both civilian and military), as well as agencies at the state and local level. The private sector includes weather companies, practitioners working for private companies or as consultants, broadcasters, risk managers, and others. The academic sector includes both private and public educational institutions and specially chartered research organizations of various types. The community is also **diverse on the user side**, including a broad range of weather sensitive economic sectors (energy, agriculture, and transportation, to name three) as well as private citizens. In recognition of the breadth and diversity of these communities of providers and users of weather and climate information the use of **the term "weather and climate enterprise" encompasses all participants**

A New Commission For The American Meteorological Society

Approved



Commission Steering Committee

- Will consist of community leaders and the leaders of groups representing users of meteorological information plus members at large, meeting twice yearly
- Purpose of the CSC is to provide a forum for identification and discussion of issues of interest or concern to the meteorological community as a whole
- Will normally refer items requiring further action to one of the boards of the Commission

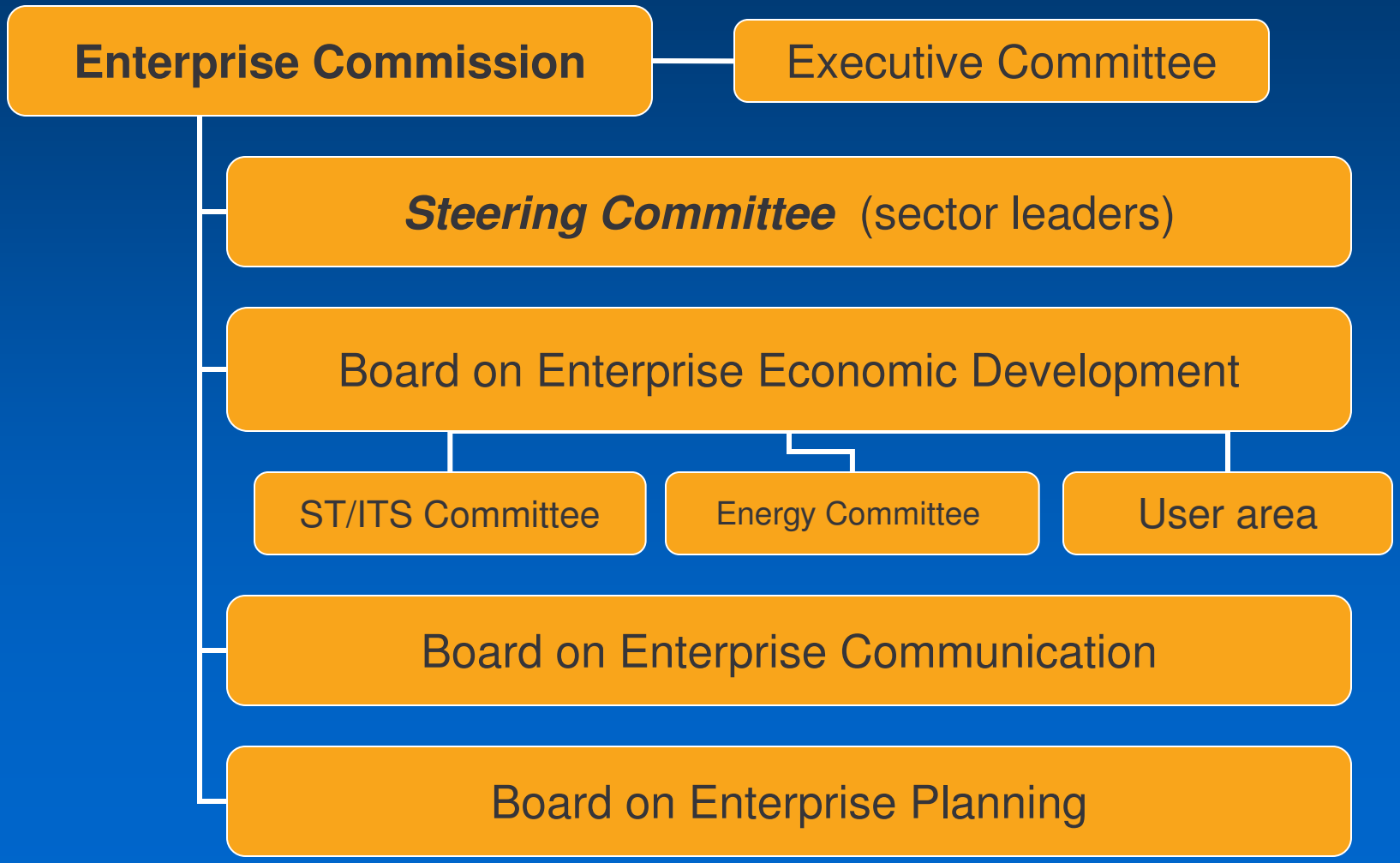
Members of the AMS Weather and Climate Enterprise Commission Steering Committee as of 1/28/06

- Voting members by position (4)
  - George Frederick, CSC Chair, WCEC Commissioner
  - Bill Mahoney, BEED Chair
  - Terry Tarbell, BEP Chair
  - Matt Parker, CCM, BEC Chair
- Senior members (voting) from the provider community (7)
  - Dr. Joel Myers, President and Founder of Accuweather
  - BGen DL Johnson, Director, NWS
  - TBD (Govt.)
  - Ray Ban, Sr. VP The Weather Channel
  - Steve Root, CCM, President WeatherBank & President CWSA
  - Chris Bedford, CCM, Sailing Weather Services and President NCIM
  - Bob Ryan, CCM, Chief Broadcast Meteorologist, NBC4
- Senior members (voting) from the user community (5)
  - Kevin Stewart, Chair of the National Hydrologic Warning Council
  - Dr. Denise Stephenson Hawk, The Stephenson Group
  - Dr. Mike Carter, DHS
  - John Stults, Western Governors Assn & State of Montana
  - TBD (Senior industry leader, ITT, LM, Raytheon, etc)
- At-large members (voting) to ensure diversity (4)
  - James Baker, Ret NOAA Administrator
  - Dr. John Snow, CCM, Dean, College of Atm & Geogr Sciences, University of Oklahoma
  - Kevin Lavin, Executive Director NWA
  - Dr. Susan Avery, CCM, University of Colorado
- Non-voting members by position
  - Walt Lyons, CCM, President AMS
  - Keith Seitter, CCM, Executive Director AMS
  - John Toohey-Morales, CCM, Professional Affairs Commissioner
  - Brad Colman, STAC Commissioner
  - Julie Ann Winkler, Education and Human Resources Commissioner

Commission Boards

- **Board on Enterprise Planning (BEP)** → strategic, long term focus; annual topic with ~2-year cycle time on studies
- **Board on Enterprise Communication (BEC)** → *internal* focus; will provide venues to bring together the meteorological community to learn about, discuss, and provide input concerning issues of short-term nature and of immediate interest to the community
- **Board on Enterprise Economic Development (BEED)** → *external* focus. will grow the economic base of the weather and climate enterprise by reaching out to the community of users, broadly defined

Organizational Structure of the Commission on the Weather and Climate Enterprise



The Enterprise Commission

- Provides venues for discussion
  - – ***Not*** a federal advisory committee
- Facilitates dialog between enterprise participants
  - – ***Not*** a mediator or adjudicator of disputes
- Operates within Society's mission
  - – ***Not*** a trade association

On Being a Neutral Host

- We must not compromise our ability to be a neutral host for enterprise discussions

- ***Balance*** is an important key
  - Committee and board appointments
  - Council composition
  - How we seek input and act on it

Ongoing & Future Activities

- Current/Recent—
  - Dialog on current hot topics
    - AMS Web Forum
  - Cosponsor "Weather Prediction Enterprise Community Meeting", Boulder 26-28 July 2005
  - Commission Steering Committee meeting #1&2, 26 July 2005, 28 Jan 2006
  - January 2006 — Activity at AMS Annual Meeting
    - Policy Forum on Partnership success stories
    - Users Conference—Transportation, Retail Trade, Energy
  - March 2006 — AMS Corporate Forum (BEED)
  - Jan-Apr 2006—Established 1st annual partnership topic (APT) (BEP)
  - 26-30 June 2006 — Community Meeting (BEC)
- In planning—
  - During 2006—Establish 2nd annual partnership topic (BEP)
  - January 2007—Commission fully fleshed out
  - 2007—Users Forum, Corporate Forum, Community Summit, Partnership Topic, etc

A New Commission For The American Meteorological Society

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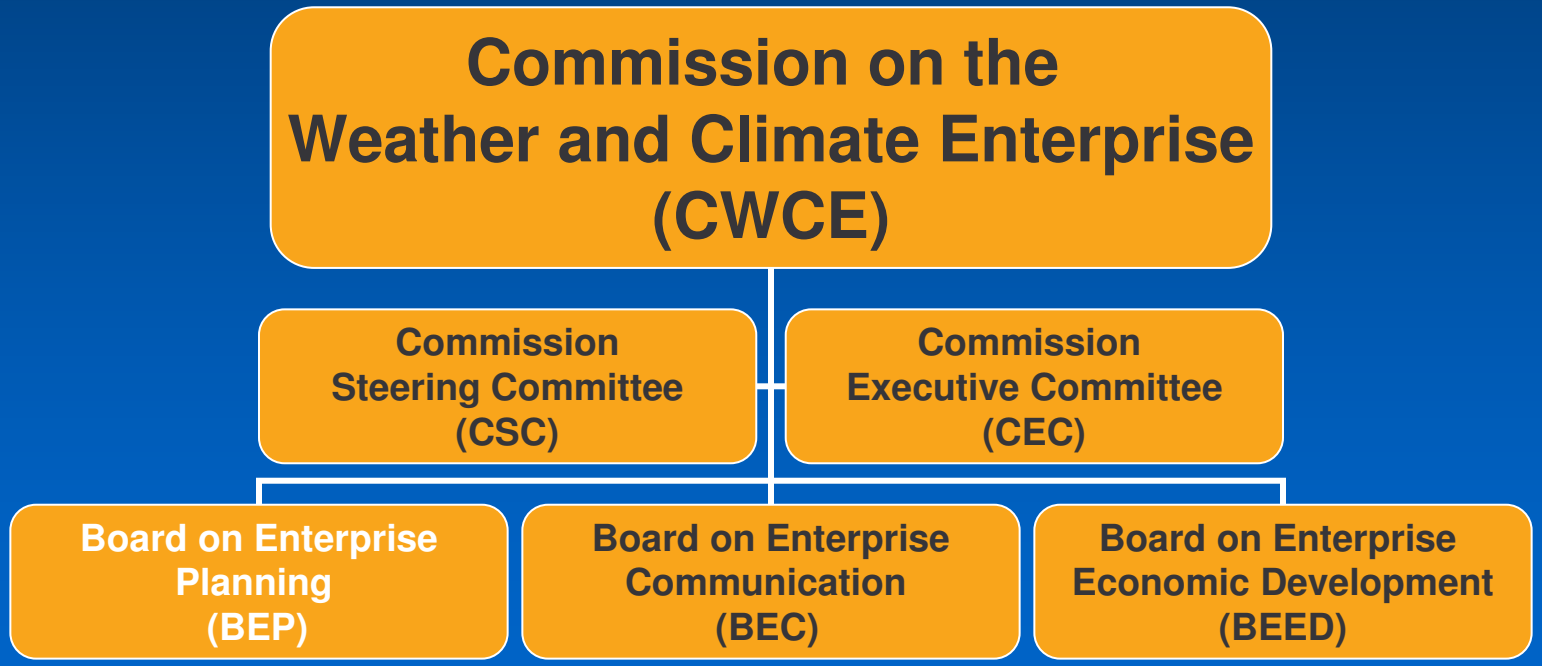

BEP Charter

- Review issues identified by the Steering Committee that are of long-term strategic nature with importance to the enterprise as a whole
- Focus on a selected topic annually
  - Annual Partnership Topic
  - Working Group for a specific topic
  - Annual Report to Steering Committee

BEP Membership

- Chair
- 13 members at large
- 3 Working Groups [WGs]
  - WG membership: Private, academic, and public sectors; user community
  - First WG: Tim Spangler, Don Winter, Bruce Telfeyan

Annual Partnership Topic [APT]

- Purpose
- Topic Selection
- Nominal Calendar Of Events
- Topic Selection Criteria
- BEP Functions
- Steering Committee Functions

Annual Partnership Topic Purpose

- Give all interested parties an opportunity to express their views on the selected topic
- Summarize those views in a concise report
- Identify consensus views when such consensus exists
- Clarify differences of opinion when consensus does not exist
- Offer recommendations to AMS itself and the enterprise as a whole based on the understanding of views gained during the study

APT Selection

- Annual Partnership Topic will be selected based on nominations received by AMS during an open nomination period
- Selection based on published selection criteria
- Selection made by Commission Steering Committee
- Any party may submit a nomination
- All nominations will be available for comment

Annual Partnership Topic Nominal Calendar of Events

- Year One:
  - Annual AMS Meeting – Issue call for nominations
  - Spring – Open comment period
  - Summer – Select topic, charge WG
  - Remainder of Year – Organize activities for Year Two
- Year Two:
  - Annual AMS Meeting – Frame topic
  - Remainder of Year – Conduct activities appropriate to topic
- Year Three:
  - Annual AMS Meeting – Conduct summary session on topic
  - Summer – WG presents final report for review/approval
  - Fall – Publish final report

Annual Partnership Topic
Topic Selection Criteria

1. Timeliness [30%]
   - Results of partnership topic activities must be relevant to the weather and climate enterprise in relation to a 2-3 year timeline
   - Topics which require results more rapidly will be rejected
   - Topics which have longer time frames will be considered
2. Breadth [25%]
   - Partnership topic will have broad impact and interest
   - Breadth judged on two factors:
     - Sectoral breadth [60%] [private, academic, government]
     - Disciplinary breadth [40%] [scientific, policy, etc]

Annual Partnership Topic
Topic Selection Criteria

3. Impact [20%]
   - Impact it is expected to have on the weather and climate enterprise and on society as a whole
   - May be evaluated in
     - Tangible terms [e.g., fraction of the U.S. economy affected]
     - Intangible terms [e.g., potential legal effects]
4. Interest [15%]
   - Estimate of the likelihood of:
     - Success in forming topic Working Group
     - Gaining multiple contributors to the topic
5. Linkage [10%]
   - Potential linkage to other planned activities [e.g., topic related to a planned activity by an organization other than AMS]

Annual Partnership Topic
BEP Functions

1. Organize the APT nomination process
   - Issue call, make public, collect comments
2. Evaluate nominations
   - "Score" each nomination
   - Draft charge for Topic Committee
3. Fill the Topic Committee
4. Review Report
5. Submit report to Steering Committee

Annual Partnership Topic
Steering Committee Functions

- Select Annual Partnership Topic
- Finalize Charge to Topic Committee
- Approve Final Report

Annual Partnership Topic in 2006-7

- Feasibility of Multi-Partner, Multifunctional Mesoscale Observing Networks

A New Commission For The American Meteorological Society

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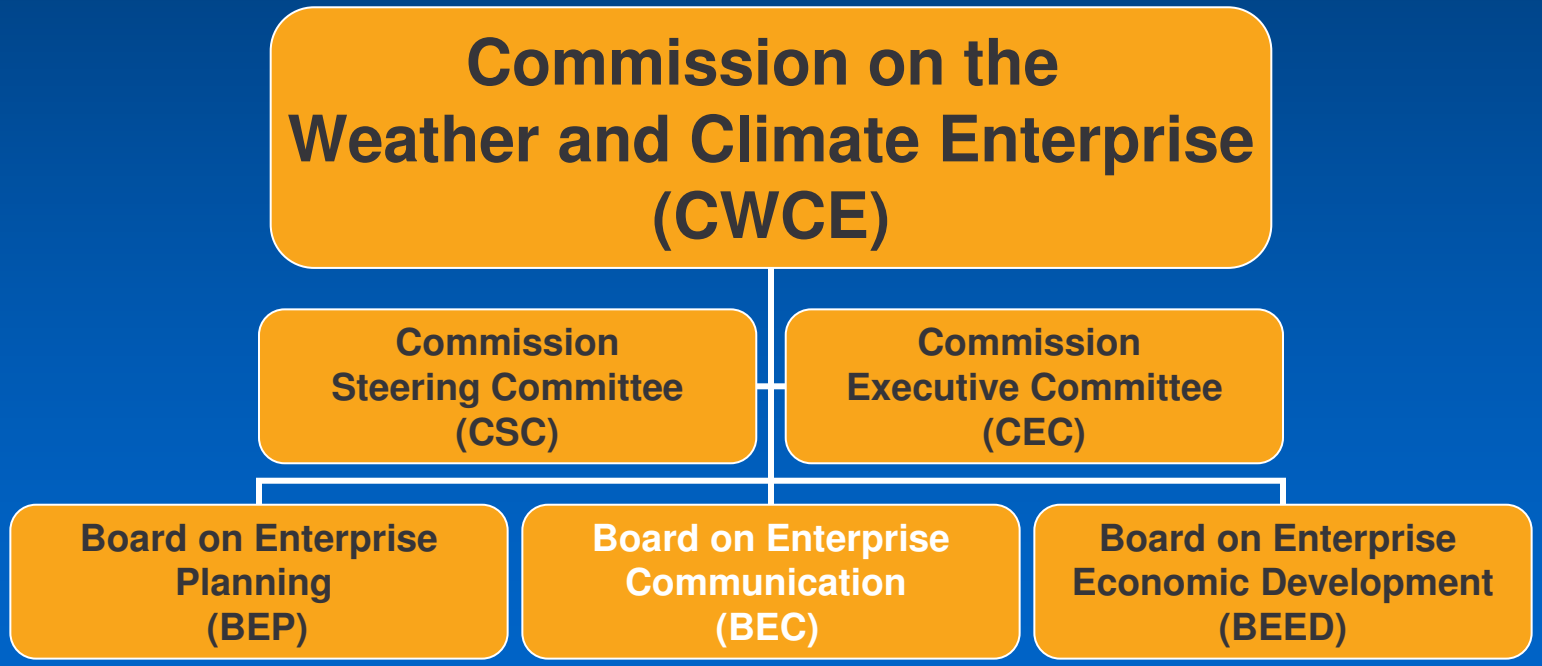

Board on Enterprise Communication

"The BEC will provide appropriate venues to bring together the provider and user communities to learn about, discuss, and provide input concerning issues of a short-term nature identified by the Steering Committee.

Venues may take a wide variety of formats, including workshops, special symposia, and conference sessions, depending on the nature and time-sensitivity of the topic to be discussed."

BEC Initiatives

- Ad Hoc Committee on Climate Services Formed
- Ad Hoc Planning Committee for Annual Community Meeting Being Formed
- Action Plan for helping develop Community Priorities with Weather Coalition and other organizations
- Community Outreach for CWEC

BEC Members

Considerations:

1. **Represent three sectors: Government, Academic, Private/commercial**
2. **Women and minorities**
3. **"New blood"**

Recommendations were used very successfully.

Member	Affliation and location	Term Ends	Academic	Government	Private
Matt Parker, CCM & Chair	SRNL, Aiken, SC	2008			X
Rebecca Morss	NCAR Boulder, CO	2009	X		
Greg Hakim	U of Washington, Seattle	2009	X		
Ron Jones	NOAA, Washington, DC	2009		X	
Tom Bellinger, CCM	BWXT Y-12, Oak Ridge, TN	2009			X
Veronica Johnson	NBC4 in Washington, DC	2009			X
Jay Titlow	Weather Flow, Inc., Poquoson, VA	2009			X
Ed O'Lenic*	NOAA, Washington, DC	2009		X	
Jan Null, CCM*	Golden Gate Weather, LLC, San Francisco	2009			X
	*ACCS = Co-Chair, Ad Hoc Committee on Climate Services				

Ad Hoc Committee on Climate Services

- Co-Chairs
  - Ed O'Lenic from NOAA
  - Jan Null, Golden Gate Weather Services, Inc.
- Membership 10-12 on Committee
- Determine venue / meeting types

A New Commission For The American Meteorological Society

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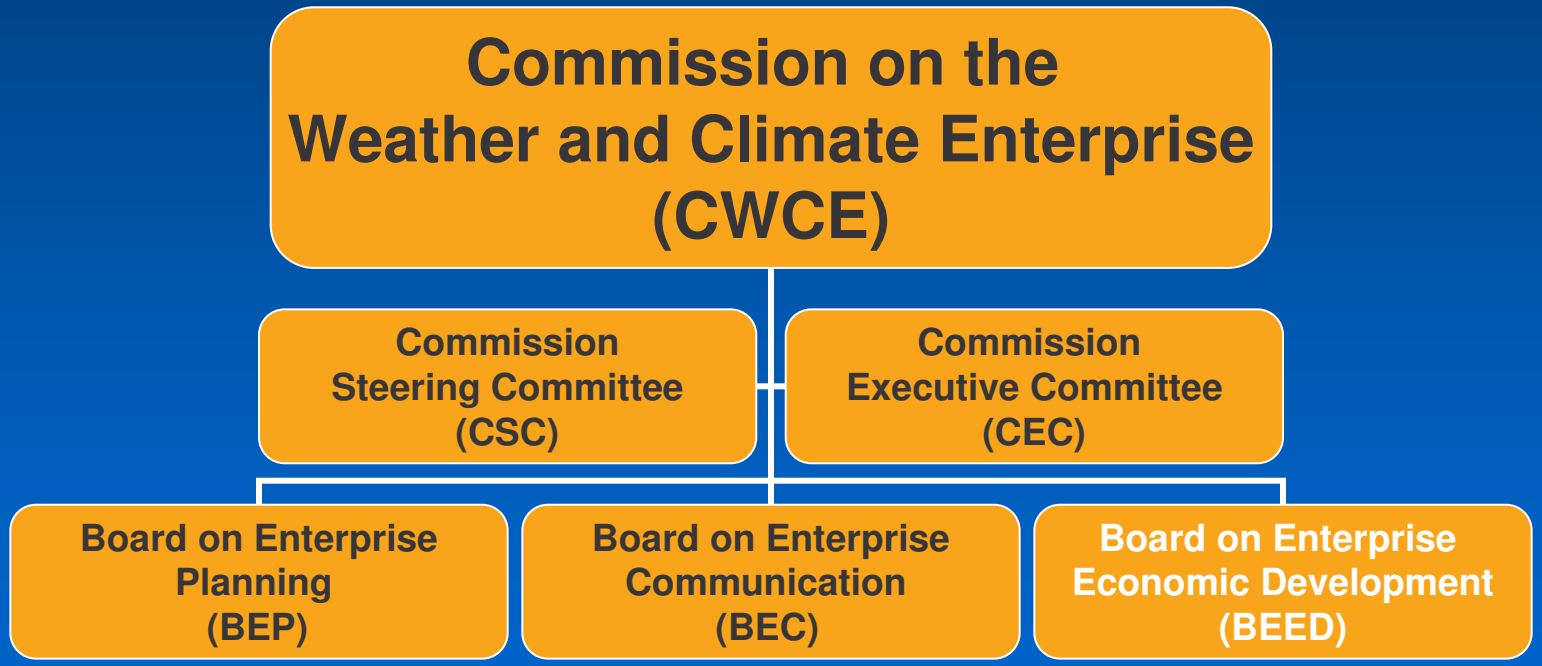


Mission

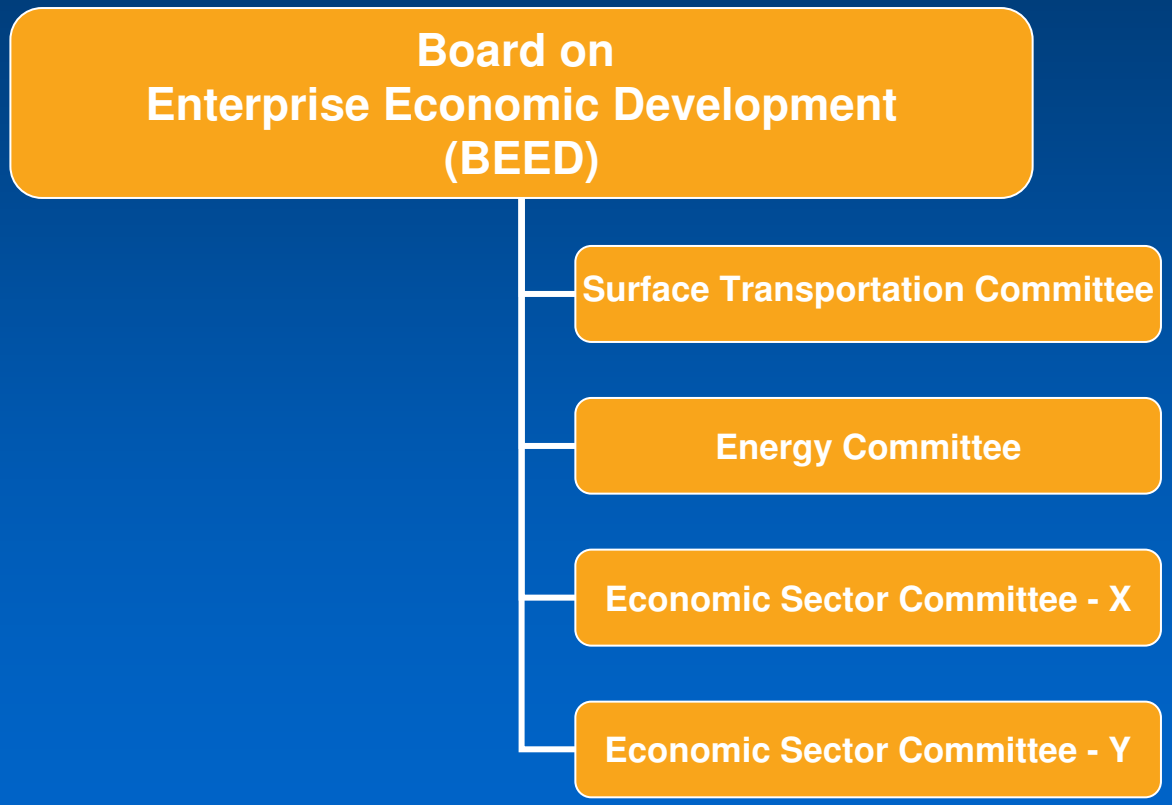
To promote growth in the economic base of the weather and climate enterprise by outreach to user communities.

History

Prior to the formation of the Commission, the BEED was the AMS Economic Development Committee, which reported to the AMS Executive Committee.

BEED Organization

External Focus



Board Members

As of January 2006

Name	Affiliation	Term Expiration
Chair, Bill Mahoney	UCAR	2008
1. Bill Bergen	Raytheon	2007
2. Heidi Cullen	The Weather Channel	2007
3. Kathy Lucas	Sonalysts	2007
4. Jean Vieux	Vieux & Associates	2007
5. Greg Wilson	Baron Environmental Services	2008
6. Josh Foster	NOAA	2008
7. Brenda Philips	ECS/UMASS	2008
8. Jim O'Sullivan	NOAA	2008
9. Bill Graham	NASA	2009
10. Jan Dutton	AWS	2009
11. John Zack	MESO, Inc.	2009
12. Pam Emch	Northrop	2009

Ex Officio Members:

Chair, AMS Surface Transportation and ITS – Paul Pisano (FHWA)
Chair, Energy Committee – Jon Davis (Chesapeake Energy)

Board Committees

In June 2006, two planning committees were formed from BEED members to help plan the Corporate and Users Forums.

Users Forum Planning Committee	**Corporate Forum Planning Committee**
Co-chairs: Michael Steinberg & Greg Wilson - John Zack - Bill Graham - Kathy Lucas - Jan Dutton	Co-chairs: Bill Bergen & Pam Emch - Josh Foster - Brenda Philips - Jim O'Sullivan - Jean Vieux

Corporate Forum

Brings together several key members of the community, government agencies, and policy makers, to discuss ongoing programs, new initiatives, and policy issues. The overall goal of the Forum is to identify business opportunities.

Next Corporate Forum: March 2007

2006 Corporate Forum

Participants include:

- Federal Government Agencies
  - NOAA
  - NASA
  - DOT
  - Congressional Staff
  - DHS

- 2006 Topics
  - GOESS
  - IOOS
  - Public/Private Partnership
  - National Competitiveness Initiative
  - NOAA Climate Services
  - Hurricane Response
  - NOAA Organic Act
  - Future Air Transport System
  - DOT/RITA
  - Federal Budget Outlook

Users Forum

Brings together Industry users and the weather and climate enterprise. Speakers asked to focus on industry needs for weather and climate information, recent successes and failures in the use of products, and other aspects of products and services as they relate to the end user and decision maker.

2006 Users Forum

Focus: Retail and Energy Industries

Participants included:

- Tennessee Valley Authority (TVA)
- Shell Oil
- The Home Depot
- Wal-Mart
- NOAA/NSF Societal Impacts Program

ITS & Surface Transportation Weather Committee

As of January 2006

Name	Affiliation	Term Expiration
Chair, Paul Pisano	FHWA	2008
1. Ed Boselley	Weather Solutions Group	2007
2. Jean Vieux	Vieux & Associates	2007
3. Mike Rosetti	Volpe	2007
4. Jean Vieux	Vieux & Associates	2007
5. Bob Hart	Meridian Environmental Technologies	2008
6. Brooke Pearson	Vaisala	2009
7. Renee McPherson	Oklahoma State University	2009
8. Robert Hallowell	MIT Lincoln Lab	2009
9. Mike Campbell	NOAA	2009
10. Kevin Petty	NCAR	2009
11. Pat Welsch	University of North Florida	2009
12. Ralph Patterson	Utah DOT	2009

Ex Officio Members:

Chair, Weather Information & Applications Special Interest Group, Intelligent Transportation Society of America – Art Handman (Ret. Hartford Transit Authority)

Energy Committee

As of 10 July 2006

Name	Affiliation	Term Expiration
1. Chair, Jon Davis	Chesapeake Energy	2009
2. Josh Dar	RMS	2009
3. Dave Changnon	Northern IL University	2009
4. Adam Stevens	Citigroup	2009
5. Marc Swartz	NREL	2008
6. Patrick Walsh	TVA	2008
7. Ken Reeves	AccuWeather	2008
8. Robert Mulloy	Shell	2008
9. Beth Stump	Chevron	2010

Energy Committee

- Approved by the AMS Council in January 2007
- First telecon meeting in July

- Focus on promoting growth in the economic base of the weather and climate community
- Closely interacting with the energy industry to the benefit of all parties.
- Identify synergistic opportunities for collaboration and business.

- Initial charge is to identify workshops, conferences, and symposia that may be of interest
- Organizing energy related meetings and conferences, probably starting with the 2008 AMS Annual Meeting in New Orleans.

Energy Committee

The committee current has 9 of its 12 members. The remaining members will be on-board by January 2007. Members represent a broad range of organizations including renewable energy, trading, electrical, university, oil, and private sector weather providers.

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