

**MEETING OF ADVISORY COMMITTEE ON WATER INFORMATION'S (ACWI'S)
SUBCOMMITTEE ON HYDROLOGY (SOH)**

**9:00 a.m. – Noon, Eastern Time
October 21, 2010
Room 5140-S
USDA South Building
Washington, D.C.**

FINAL MINUTES

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| 1. Welcome and Introductions | Claudia C. Hoeft |
| 2. Review and Approval of Agenda | Claudia C. Hoeft |
| 3. Approval of Minutes from June 25, 2010 | Claudia C. Hoeft |
| 4. Status of Action Items from June 25, 2010 Meeting | Claudia C. Hoeft |
| 5. SOH Membership | Claudia C. Hoeft |
| a) Committee Chair / Vice-Chair | |
| b) Membership – Retired Federal Employee | |
| c) Membership – Global Ecosystem Center | |
| 6. Hydrologic Modeling Inventory | Don Frevert |
| 7. WaterSmart Strategic Implementation Plan | Claudia C. Hoeft |
| 8. Discussion – Extreme Rainfall Events White Paper | Robert Mason |
| 9. Water Data Work Group Status | Dave Goodrich |
| 10. Work Group Reports | |
| a) Hydrologic Modeling Work Group | Don Frevert |
| b) Hydrologic Frequency Analysis Work Group | Will Thomas |
| c) Hydrologic and Hydraulic GIS Applications Work Group | William Merkel |
| d) Extreme Storms Work Group | Tom Nicholson |
| e) Satellite Telemetry Interagency Workgroup | Charles Allen |
| 11. Current Events within Hydrologic Communities | All |
| 12. Announcements and Q&A on Business Reports from Member Organizations
<i>“The SOH CONNECTIONS” Newsletter Editor’s Report</i> | All |
| 13. Plans for Next Meeting | Claudia C. Hoeft |

Adjourn

ATTENDEES

Subcommittee on Hydrology Members

Martin Becker	Defenders of Property Rights (DPR)	<i>(phone)</i>
Brian Beucler	Federal Highway Administration	
Michael Eberle	Bureau of Land Management	
Ted Engman	National Aeronautics and Space Administration	
Joseph Giacinto	U.S. Nuclear Regulatory Commission	
Claudia Hoeft	USDA Natural Resources Conservation Service (NRCS)	
Victor Hom	National Oceanic and Atmospheric Administration (NOAA/NWS)	
John Hunter	U.S. Army Corps of Engineers	
Sam Lin	Federal Energy Regulatory Commission (FERC)	
Robert Mason	United States Geologic Survey (USGS)	<i>(phone)</i>
William Merkel	USDA Natural Resources Conservation Service (NRCS)	
Tom Nicholson	U.S. Nuclear Regulatory Commission	
Richard Raione	U.S. Nuclear Regulatory Commission	
Gene Stallings	National Hydrologic Warning Council (NHWC)	<i>(phone)</i>
Nancy Steinberger	Federal Emergency Management Agency (FEMA)	<i>(phone)</i>
David Wells	Environmental Protection Agency	
Donald Woodward	Global Ecosystems Center	

1. Welcome and Introductions

Claudia Hoeft, Vice-chair, welcomed members of the SOH present in person and via telephone to the South Ag Building for this meeting of the subcommittee. A moment of silence was observed in memory of Dr. Mary Greene, Chair of the Subcommittee on Hydrology, who passed away unexpectedly on July 16, 2010.

2. Review and Approval of Agenda

Claudia Hoeft proposed a change to the agenda to include a discussion of the draft WaterSMART Strategic Implementation plan to follow the discussion of the Hydrologic Modeling Inventory (item number 6 on the agenda).

3. Approval of Minutes from June 25, 2010

Several people submitted minor corrections to the minutes from the June 25, 2010 meeting to Claudia Hoeft via e-mail. Those corrections were incorporated and Claudia redistributed the minutes along with the meeting notice for this meeting. There were no further recommendations for revisions and the minutes were approved.

Action Item:

- *Claudia Hoeft: Send minutes from the April 29, 2010 meeting to Carol Lewis for posting on the SOH web-site.*

4. Status of Action Items from June 25, 2010 Meeting

Claudia C. Hoeft

1. Claudia Hoeft - send minutes from the April 29, 2010 meeting to Carol Lewis for posting on the SOH web-site. **Complete.**
2. SOH members - review slides for the ACWI presentation and return any comments or suggestions to Steve Blanchard by July 7, 2010. **Complete.**

3. Don Frevert - send Jerry Webb's and Joseph Giacinto's names forward to SOH for approval as HMWG chair and vice-chair. **Complete.**
4. Robert Mason - send streams and flood classification article from the ASFPM meeting to SOH members. **Complete.**
5. Claudia Hoeft - include discussion of stream and flood classification article on SOH agenda for October meeting. **Complete.**

5. SOH Membership

a) Committee Chair / Vice-Chair

Due to Mary Greene's unexpected death, the position of SOH Chair is currently vacant.

According to the Subcommittee Terms of Reference, "...*The Chair and the Vice Chair will serve until September 30 of the full year after the Subcommittee is formed. Biannually thereafter, the Vice Chair will become Chair and the members will elect a new Vice Chair to replace the Chair after two years. Also, the Vice Chair will serve in the absence of the Chair. A special election will be held if either the Chair or Vice Chair terminate their association with the Subcommittee before their terms expire..*"

Martin Becker proposed that Claudia Hoeft move into the position of Chair and that nominations for a new Vice-chair be submitted via e-mail and that that voting for the new Vice-chair be done either via e-mail or other electronic format in order that the new chairman be in place by the next meeting.

Bill Merkel asked if Claudia would move into the position of Chair for a full two-year term, or if it would be just to fill out the current term (until next fall). After much discussion, it was decided that Claudia will move into the Chair position to fill out Mary's remaining term and a new Vice-chair would be selected to complete this current term and then move into the Chair position next fall. This will ensure some consistency as the normal election cycle continues.

Tom Nicholson proposed that the request for nominations for vice-chair be open for a period of approximately 30 days. After that the list of candidates should be e-mailed to SOH members and they should be asked to respond to Claudia within a period of approximately 30 days.

Action Items:

- **Claudia Hoeft:** *Send out request for nominees (or volunteers) for Vice-Chair of SOH. Proposed due date: October 29, 2010.*
- **SOH Members:** *Submit names of nominees (or volunteers) for Vice-Chair of SOH to Claudia. Proposed due date: November 26, 2010..*
- **Claudia Hoeft:** *Contact nominees and/or volunteers to verify their willingness to serve. Proposed due date: December 3, 2010.*
- **SOH Members:** *Vote for Vice-chair. Proposed time-frame: December 6 through December 31, 2010.*
- **Claudia Hoeft:** *Contact new Vice-chair and notify SOH members of the selection. Proposed due date: January 6, 2010.*
- **Vice-chair:** *Assumes office at next SOH meeting on January 20, 2010.*

b) Membership

Don Woodward sent an e-mail Claudia Hoeft (dated August 11, 2010) which she later shared with the other members of SOH regarding membership of individuals on the SOH. Don was proposing that individuals should be allowed to serve as private sector representatives if they

wish to remain active on SOH. This prompted a great deal of discussion regarding private versus organizational membership on SOH.

The Terms of Reference state that, “*The Subcommittee will have a membership of Federal, Interstate, State, Tribal and local government agencies and private organizations.*” And goes on to further state that “*...each member organization will designate a representative and alternate to the Subcommittee.*”

Based on the Terms of Reference and a great deal of discussion, the SOH came to the following conclusions:

1. Individuals are certainly welcome and should be invited to attend meetings.
2. It is through representing an organization (governmental, NGO, private, or other) that individuals can request membership and become a member.
4. Future newsletters should include a note that the public is invited to attend upcoming meetings, but should contact the Chair in advance of the meeting so that membership can be made aware of potential guests.
5. Convene a team to look at the SOH and ACWI Terms of Reference to determine if any additional guidance is necessary regarding attendance of guests at meetings and to make further recommendations to SOH.

Action Items:

- ***Martin Becker, Don Woodward, Victor Hom and others interested: Review the SOH and ACWI Terms of Reference to determine if any additional guidance is necessary regarding attendance of guests at SOH meetings and to make further recommendations to SOH. Due date: Report back to SOH at January 2011 meeting.***

c) Membership – Global Ecosystem Center

Global Ecosystem Center (GEC) submitted a letter for membership in the SOH via e-mail on October 16, 2010. GEC operated for over 20 years as the Urban Forest Center which was part of the American Forests national non-profit organization. This past year American Forests reorganized and dissolved the Urban Forest Center. The GEC formed and the staff from the Urban Forest Center transferred to the new organization. GEC nominated Don Woodward and Kenneth Kay as their primary and alternate representatives, both of whom represented the Urban Forest Center previously.

The SOH members discussed this matter and made the decision that GEC would be welcome and accepted for membership immediately since they were a direct break off from American Forests rather than an entirely new organization.

Action Items:

- ***Claudia Hoefl: Determine whether SOH needs to send a letter confirming the membership of GEC into SOH or if documenting this in the meeting minutes is sufficient.***

d) Membership: Federal Highway Administration

Brian Beucler announced that he will serve as the primary representative to SOH of the Federal Highway Administration and that Joe Krolak will serve as the alternate.

6. Hydrologic Modeling Inventory

Don Frevert submitted for discussion the potential of SOH member organizations to provide funding to Texas A&M University for the Hydrologic Modeling Inventory developed and maintained by Dr.

Vijay Singh and his graduate students. The inventory contains in depth information on approximately 90 hydrologic models used throughout the world. It is an information tool for users who are seeking information on available hydrologic models and contact information along with software and data requirements. The inventory is accessible through the web-site at: <http://hydrologicmodels.tamu.edu/>

The Bureau of Reclamation funded the development of the web-site and has financially supported this effort in the past. Due to budget issues, however, the Bureau of Reclamation is not in a position to continue this support. Without funding, it is not possible to stay current on updates to the models currently listed - let alone add information on new models as they are developed.

It would be helpful if some of the other SOH member agencies could provide some funding. As little as \$50,000 would allow for a much needed update of the web-site.

Questions raised during the discussion of this item:

1. Is this \$50,000 per year, or in one lump sum?
2. Can information be provided on who uses the web-site and why? At a minimum, it would be helpful to know the number of hits the web-site sees.
3. Is this similar to the HMS(?) inventory/database that is maintained by WMO?

Action Items:

- **Bill Merkel will try to get information from Dr. Singh on web-site (database) usage and make a presentation on the Hydrologic Modeling Inventory web-site at the next SOH meeting in January.**
- **Victor Hom will check on the HMS inventory/database and report back at the next meeting in January.**

7. WaterSmart Strategic Implementation Plan

Claudia C. Hoeft

Wendy Norton sent a request for review of the draft WaterSMART program Implementation Plan to the SOH. Comments are due by Friday, November 19. Claudia Hoeft requested volunteers to review the plan and help compile a set of comments from SOH. Richard Raione volunteered to assist.

Action Items:

- **Claudia Hoeft to share the e-mail from Wendy Norton with SOH members with a request for comments. Comments are to be sent to Richard Raione or Claudia Hoeft by November 3, 2010.**
- **Claudia Hoeft and/or Richard Raione to compile comments and return via e-mail to Wendy Norton by November 19, 2010.**

8. Discussion – Extreme Rainfall Events White Paper

Robert Mason

A paper by Thomas M. Grisa, titled, “Relabeling Extreme Rainfall Events so the Public Understands Their Severity”, which was presented at an Association of State Floodplain Managers (ASFPM) conference was sent to SOH members for their review and comment.

In this paper, the Author is introducing an idea that is certainly an issue of concern and should be addressed. However, several SOH members expressed concerns over the focus on precipitation and a seeming tie to describing flood severity. Also expressed was this issue is applicable to all types of hydrologic events (for example flooding from snowmelt and flash flooding) and not just precipitation.

The National Weather Service is working at NOAA with and precipitation frequency experts to try to address this issue. Tom Nicholson, Chair, Extreme Storm Events work group requested that Victor Hom report back to the SOH in January, specifically to describe NWS work in classifying flood risk.

Martin Becker discouraged SOH from providing any type of endorsement to Mr. Grisa's paper. SOH should not be put into the position of taking a particular position, but should encourage Mr. Grisa to work with the appropriate agencies. In this case, FEMA and/or NOAA.

Action Items:

- **Victor Hom – Report to SOH on NOAA/NWS activities on risk based assessment and describing event severity at the next SOH meeting in January.**
- **Claudia Hoeft – Contact Wendy Norton to see how to submit a letter to Mr. Grisa thanking him for his paper.**

9. Water Data Work Group Status

Dave Goodrich

Dave Goodrich was unable to attend this meeting, however he did share an e-mail with the SOH members suggesting that we take Ilya Zaslavsky up on an offer to present information on the WaterML 2 activities. The team would like to do a series of WaterML 2 presentations for Federal Agencies to solicit feedback and involve them in future Hydrology Domain Working Group activities.

It is important to note that this could be an international standard by next year and that national standards in use by USGS and others could be over-ridden by this standard.

Action Items:

- **Claudia Hoeft – Discuss with Dave Goodrich next steps. Could we have Ilya present to SOH and ACWI?**

10. Work Group Reports

a) Hydrologic Modeling Work Group

Don Frevert submitted the following via e-mail on October 6, 2010:

My term as chair has ended and the main item for the subcommittee's attention is to ratify Jerry Webb as my successor (chair), and Joe Giacinto as vice-chair. I have obtained e-mail concurrence from the work group on our proposed incoming leadership. I have great confidence that Jerry and Joe will give excellent leadership to the work group. Once this ratification is complete, the website will need be updated with the appropriate contact information for Jerry and Joe.

Claudia Hoeft also reported that she has volunteered to serve as the technical chair of the 2014 Federal Interagency Hydrologic Modeling Conference.

The SOH members approved Jerry Webb as Chair and Joseph Giacinto as Vice-Chair of the Hydrologic Modeling Work Group.

Action Items:

- **Claudia Hoeft – Provide Carol Lewis the appropriate information to updated the SOH web-site.**

b) Hydrologic Frequency Analysis Work Group

Will Thomas

Will Thomas submitted the following report via e-mail:

Tim Cohn, USGS, has developed a Generalized Grubbs-Beck test for detecting multiple low outliers in a data set. Tim and his coauthors (John England, Charles Berenbrock, and Robert Mason) have prepared a Journal article describing the new test and its theoretical basis.

The new outlier test can be applied as part of the Expected Moments Algorithm (EMA) or in the Bulletin 17B technique in lieu of the Conditional Probability Adjustment. The new low outlier test will be evaluated in the EMA-Bulletin 17B testing for both procedures and results compared to those using the Conditional Probability Adjustment as part of the Bulletin 17B procedure. The purpose is to evaluate any improvements that the new low outlier test may afford over using the current Grubbs-Beck test in Bulletin 17B. The new low outlier test will be added to the EMA code. The testing results discussed at the November 19, 2009 meeting will be revised using the new low outlier test.

The core of people who were assigned action items at the November 19, 2009 meeting of the HFAWG have participated in four conference calls since the last Subcommittee on Hydrology meeting on June 25, 2010. The conference calls are to maintain progress and continuity on the EMA-Bulletin 17B testing. Those participating in the conference calls include Tim Cohn, USGS; John England, USBR; Nancy Steinberger, FEMA; Beth Faber, USACE; Robert Mason, USGS; and Will Thomas, Michael Baker.

Work is still progressing on the action items from the November 19, 2009 meeting and plans are to complete these action items by the end of the calendar year. The next meeting of the HFAWG will be in early 2011. The action items to complete include:

- Split-sampling analyses for observed flood data.
- Monte Carlo simulation analyses for two hypothetical frequency curves of mixed distributions.
- Summarizing Monte Carlo simulations from previously published papers.
- Summarizing frequency analyses for Bulletin 17B and EMA frequency analyses for stations with many zero flows, measurement error, multiple thresholds and interval data (in addition to the 82 stations being used in the testing).

c) Hydrologic and Hydraulic GIS Applications Work Group

Since the last SOH meeting, a paper was presented about the activities of the Work Group at the Federal Interagency Hydrologic Modeling Conference in Las Vegas in July. The paper is available for download from the Work Group web site (directly linked to the SOH web site). It is worth noting that there were at least 9 papers presented at JFIC on GIS related issues.

The CESU agreement between the Bureau of Reclamation and Texas A&M University has concluded with the posting of information and web links to a number of GIS

applications in hydrology and hydraulics. The Hydrologic Model Inventory web site is at <http://hydrologicmodels.tamu.edu>.

The next major item to address is a Work Group report summarizing activities and making recommendations on further actions. This will be discussed at the next Work Group teleconference.

d) **Extreme Storms Work Group**

Tom Nicholson shared the following report:

Via e-mail, John England provided the following list of activities for the Extreme Storms Work Group:

1. Held teleconference with members in late January. Gained members from TVA.
2. Visited NOAA-ESRL in Boulder (April 2010) to discuss mutual storm interests with Mike Alexander, Marty Ralph and USBR/NOAA post-doc Kelly Mahoney. Kelly is exploring climate change effects on extreme storms at fine spatial scales with WRF modeling in the mountains of Colorado.
3. Wrote and presented a paper at the Joint Federal Conferences FISC/FIHMC in Las Vegas in July. Solicited membership from Dr. D-J. Seo, formerly with NWS-OH, now Prof at UT-Arlington.
4. Continued coordination between USBR and USACE on storm catalog development efforts. Reclamation staff (Victoria Sankovich) visited Omaha for several days at the end of July. Doug Clemetson continues to develop data
5. Continued collaboration between USBR and NRC on extreme storm data set development in the Southeast US, including extreme storm PMP discussions with NWS at the March 2010 NRC RIC conference.
6. Participation in AGU fall meeting in December 2010 with the Atmospheric sciences section. John England and others are chairing the following session (Monday Dec. 13):
A52. Extreme Warm Season Precipitation in Mountainous Regions and its Hydrologic Impacts: Modeling and Observations for Climate Studies
7. Will be participating in AMS Annual Meeting 23–27 January 2011 in Seattle (Victoria Sankovich).
8. Next teleconference is tentatively scheduled for Thursday November 4.

The abstract and AGU session description mentioned in John's list are attached.

The Work Group's next meeting/teleconference will be November 4, 2010 at 10:00 a.m. EDST. Also please note the following item sent by Steve Blanchard, USGS yesterday, which was highlighted by Robert Mason, USGS in today's SOH meeting:

"In regards to the Extreme Storms Work Group (Tom Nicholson group) - the ACWI felt strongly that the HMRs and PMP should be updated using the many years of available new data. Jerry Webb (Corps) shared how critical this info is to their work and how they have been contributing funds to other agencies to do this work. Gary Carter (NWS) shared that their staff for this work has shrunk over the years and that there are new methods that should be incorporated to improve the process. ACWI asked how much it would cost to do the updating work. Jerry Webb estimated that using the old methods, it would probably cost about \$500K per year over several years. Gary

Carter thought it would cost about \$2M for an initial effort to develop the new methods, establish a team of people, and begin the updating process. ACWI asked SOH for:

- A concrete proposal on what is needed to update the HMRS/PMP report that should include a description of the old method and its short comings and the new method and its advantages. The proposal should include a description of resources and staff needed to accomplish the updating.
- A presentation, by WebEx or at an ACWI meeting on the proposal
- ACWI will issue a resolution on the importance of and need for this effort. The SOH will take the lead on drafting the resolution and work with Wendy Norton (ACWI Exec Secretary) to get it through ACWI and issued."

The RES Seminar on Risk and Uncertainty in Dam Safety was RES seminar #86. The featured speaker was Professor Gregory Baecher, University of Maryland. The panel members were Dr. Andy Zelinski, Ontario Power Generation, and Robert Patev, U.S. Army Corps of Engineers, New England District. For detailed information on the viewgraphs and DVD please contact Deonna Purdie, U.S. NRC/RES at 301-251-7470. (The URL site has an "internal" designation which may limit access to non-U.S.NRC users. The URL is: <http://www.internal.nrc.gov/RES/communication/Seminar/completed.html>.)

e) **Satellite Telemetry Interagency Workgroup**

Claudia Hoeft questioned whether or not this Work Group is still active or not. Under their charter, they are to report to SOH and there has been no report for them in well over a year. Several SOH members indicated that they are aware that the Work Group meets regularly. Victor Hom, Robert Mason and others agreed to try to contact STIWG and have someone get back with Claudia.

Action Items:

- ***Victor Hom and/or Robert Mason – Contact STIWG to find out who the current chair is and what their status might be.***

11. Current Events within Hydrologic Communities

Gene Stallings is planning to report out on activities of the Science Advisory Board under NOAA at the January 2010 meeting.

Gene Stallings will be reporting on the Environmental Information Services Work Group (EISWG) which is under the NOAA's Science Advisory Board. Gene will be covering the history of the EISWG and its purpose.

Tom Nicholson asked Victor Hom if there were any information on a briefing of the recent extreme storm events in North Carolina. John England is working on looking at the recent storm events in South Carolina. Tom and Victor will discuss this further .

David Wells, EPA, National Water Quality Model Summer Meeting presentation

Victor Hom reported on USGS/NWS flood mapping efforts to develop a common checklist for streamlining the creation of mapping of AHAD mapping. Templates have already been developed.

Richard Raione, NRC, reported that NRC has received a proposal for a new reactor to be located about 2 hours from the DC area. Information can be found on the NRC web-site. Richard also recommended that any agencies interested in summer hires or co-op students contact the University of Maryland. Finally Richard requested advice on what tools might be available to make reviews of

new reactor proposals more efficient since the NRC is seeing a lot of activity in their Advance Reactor Program. They are seeing proposals for much small reactors to replace large coal plants as the coal plants come off line.

12. Announcements and Q&A on Business Reports from Member Organizations

1) “The SOH CONNECTIONS” Newsletter Editor’s Report

Claudia Hoeft has announced that she will be unable to continue as Editor of the Newsletter if she is to take over as Chair of the SOH. She has asked Richard Raione to assume the role of Editor and asked for volunteers to help Richard. The last edition of the newsletter went out in August. It would be appropriate that the next edition come out prior to the SOH meeting in January.

2) Seminar on Dam Safety Hazard Analysis Risk Assessment.

Tom Nicholson reports that Greg Baecher’s, et.al, presentation are available on-line. Tom is sending the web-link to include in the minutes.

3) Trust fund for Mary Greene’s daughters

Sam Lin provided a reminder about the trust fund established for Mary Greene’s daughters. Trust fund donations may be made to:

The Mary Greene Memorial Fund
c/o U.S. Bank
P.O. Box 1170
Lake Oswego, OR 97035

4) NWS Verification of Flood Warning Products

Victor Hom reported that NWS is verifying on flood warning products. To date they are finding that lead times are typically on the order of 16 hours with an accuracy of 83% which exceeded initial goals. NWS continues to work towards improving lead times for warnings and accuracy of warnings.

13. Plans for Next Meeting

Claudia C. Hoeft

Next meeting will be Thursday, January 20, 2011 at 9:00 a.m. at the USDA South Ag Building.

ACTION ITEMS:

1. Claudia Hoeft: Send minutes from the April 29, 2010 meeting to Carol Lewis for posting on the SOH web-site.
2. Claudia Hoeft: Send request for nominees (or volunteers) for Vice-Chair of SOH. Proposed due date: October 29, 2010.
3. SOH Members: Submit names of nominees (or volunteers) for Vice-chair to Claudia. Proposed due date: November 26, 2010.
4. Claudia Hoeft: Contact nominees and/or volunteers to verify their willingness to serve. Proposed due date: December 3, 2010.
5. SOH Members: Vote for Vice-chair. Proposed time-frame: December 6 through December 31, 2010.
6. Claudia Hoeft: Contact new Vice-chair and notify SOH members of the selection. Proposed due date: January 6, 2010.
7. Vice-chair: Assumes office at next SOH meeting on January 20, 2010.
8. Martin Becker, Don Woodward, Victor Hom and other interested members: Review the SOH and ACWI Terms of Reference to determine if any additional guidance is necessary regarding attendance of guests at SOH meetings and to make further recommendations to SOH. Due date: Report back to SOH at January 2011 meeting.
9. Bill Merkel: Contact Dr. Singh regarding information on Hydrologic Model Inventory web-site (database) usage and make a presentation on the Hydrologic Modeling Inventory web-site at the next SOH meeting in January.
10. Victor Hom: Check on the HMS inventory/database and report back at the next meeting in January.
11. Claudia Hoeft: Share the e-mail from Wendy Norton with SOH members with a request for comments on the draft WaterSMART Implementation Plan. Comments are to be sent to Richard Raione or Claudia Hoeft by November 3, 2010.
12. Claudia Hoeft and/or Richard Raione: Compile comments on the draft WaterSMART Implementation Plan and return via e-mail to Wendy Norton by November 19, 2010.
13. Claudia Hoeft – Discuss with Dave Goodrich next steps. Could we have Ilya present to SOH at the next meeting or is that too late?
14. Victor Hom – Report to SOH on NOAA/NWS activities on risk based assessment and describing event severity at the next SOH meeting in January.
15. Claudia Hoeft: Contact Wendy Norton to see how to submit a letter to Mr. Grisa thanking him for his paper and encouraging this dialogue through SOH and ACWI.
16. Claudia Hoeft: Provide Carol Lewis the appropriate information to update the SOH web-site.
17. Victor Hom and/or Robert Mason: Contact STIWG to find out who the current chair is and what their status might be.