SUMMARY & ACTION ITEMS FROM THE LAST USTEC, AND THE INAUGURAL INTERIM INTERAGENCY WEATHER RESEARCH COORDINATION COMMITTEE (IIWRCC) MEETINGS

Jan. 5, 2015

SUMMARY

1) On behalf of the USTEC and the US weather research community, Laura Furgione, US Permanent Representative to WMO, congratulates the following key US THOPEX contributors:

Mel Shapiro, David Parsons, Jim Hansen, Edmund Chang, Malaquias Pena, Istvan Szunyogh, Daryl Kleist, Tom Hamill, Walter Dabberdt, Rolf Langland, Rebecca Morss Pat Harr, Craig Bishop, Barbara Brown, Ron Gelaro, Mitch Moncrieff, Duane Waliser, Steve Worley, Doug Schuster, Glen Rutledge, Yuejian Zhu, Zoltan Toth

2) Laura Furgione ensures the research community of continued support from her and NOAA/NWS in its post-THORPEX endeavors, including the establishment of interim committees for a coordinated US response to the three WMO/WWRP international THORPEX legacy projects (PPP, S2S, HiWeather).

3) As a last act of official business, USTEC transforms itself into a new interim committee, after which both USTEC and USTSSC are formally dissolved; ongoing activities are transferred to the two interim committees (see below).

4) Recognizing the need for (1) continued national coordination of weather related research, (2) a coordinated US response to the three international THORPEX legacy projects (PPP, S2S, HiWeather), and (3) the efficient organization and use of weather research infrastructure, members of the former USTEC form the Interim Interagency Weather Research Coordination Committee (IIWRCC). The immediate objectives of the IIWRCC are to:

   a. Carry on ongoing overall interagency weather research coordination activities
   b. Develop a long term organizational structure for such coordination, including Terms of Reference (TORs)

5) The IIWRCC initiates the formation of the Interim Community Weather Research Planning Committee (ICWRPC). The main objective of the ICWRPC will be the development of a coordinated plan for US community contributions to the three THORPEX legacy (PPP, S2S, HiWeather) and other international (WWRP) and national projects for the consideration of IIWRCC.

6) The IIWRCC appointed Sharan Majumdar (Univ. Miami) and Carolyn Reynolds (NRL) as co-chairs of the ICWRC, with the possibility of the appointment of a third co-chair if needed.
ACTION ITEMS

ACTION ITEM #1: John will request NWS to formally nominate their representative for the IIWRCC (Feb 27)

ACTION ITEM #2: Pat Harr will invite to the IIWRCC representatives from other NSF organizations with PPP, S2S, and social science related research responsibilities (Feb 27, 2015)

ACTION ITEM #3: Based on Terms of Reference (TOR) for USTEC and USTSSC and IIWRCC discussions, Pat Harr will develop a draft of TOR for both IIWRCC and ICWRPC and share with IIWRCC members for discussion at the next IIWRCC meeting (Feb 27)

ACTION ITEM #4: IIWRCC asks the ICWRPC co-chairs to develop a list of potential ICWRPC members for IIWRCC’s review and approval, with a goal of a total of 10-15 active members (15 Febr). The IIWRCC will provide feedback and suggestions so the co-chairs can prepare a refined list (March IIWRCC meeting).

ACTION ITEM #5: IIWRCC asks Malaquias Pena to share new developments about US weather research coordination with weather research groups from the Americas to explore if there is enough interest to form a self-supporting regional research committee under WWRP to provide a regional forum after the THORPEX Regional Committees have been disbanded.

ACTION ITEM #6: IIWRCC asks the ICWRPC co-chairs to reach out to and engage with key US contributors to the three THORPEX legacy projects, with an intention to establish good connections with climate research as well (27 Feb).

ACTION ITEM 7: IIWRCC members share their agency’s list of priority hazards/threats and suggestions for the grouping of hazards/threats with their fellow IIWRCC members and the ICWRPC co-chairs (Feb 10)

ACTION ITEM #8: IIWRCC asks the ICWRPC co-chairs to further elaborate on the research approach, prioritized hazards list, and common infrastructure and report progress at the next IIWRCC meeting (March IIWRCC meeting)

ACTION ITEM #9: IIWRCC asks the ICWRPC co-chairs to provide an estimate of resources they will need for the organization of the June workshop and other committee related efforts in FY15 & FY16.

ACTION ITEM #10: IIWRCC asks the ICWRPC co-chairs to develop and execute a plan for the transition of the US THORPEX website from SUNY (Edmund Chang) to a US weather research coordination website maintained at the Univ. Miami (or other appropriate host, Mar 31)
**ACTION ITEM #11:** IIWRCC asks the ICWRPC co-chairs to identify archiving needs that could potentially be met by NCAR or other organizations in support of the THORPEX legacy projects and report to IIWRCC (June 30)

**ACTION ITEM #12:** Chungu and Carolyn will discuss the new US weather research coordination efforts with Tsengdar Lee from NASA Headquarters, and Zoltan will formally invite him (or his representative, possibly David Considine) to become a member of IIWRCC (March 31)

**ACTION ITEM #13:** All IIWRCC members and associates are asked to be ready to discuss the IIWRCC & ICWRPC weather research coordination activities at agency and community meetings (e.g., NOAA Satellite Science Week, Feb, Zoltan; NASA community input meeting, May, Carolyn and Pat; ongoing)

**ACTION ITEM #14:** Zoltan will set up a ~2 hour teleconference for the next IIWRCC meeting in first half of March (March 2015)
AGENDA FOR THE LAST USTEC, AND THE INAUGURAL INTERIM INTERAGENCY WEATHER RESEARCH COORDINATION COMMITTEE (IIWRCC) MEETINGS

Monday, 5 January 2015, 11 am – 2 pm

Sheraton Phoenix Downtown Hotel, South Mountain Room, 2nd Floor

1) Greetings, adoption of agenda (All, 5 mins)
2) Remarks by Laura Furgione (US Permanent Representative to WMO and Deputy Director, NWS) on US THORPEX accomplishments and post-THORPEX planning (20 mins, incl. discussion)
3) Presentation of Certificates to key US THORPEX contributors (L. Furgione & Awardees, 15 mins)
4) Review action items from last USTEC meeting (Zoltan Toth, all, 10 mins)
5) Closing of USTEC business (Z. Toth, all – 10 mins)
6) Launch of new ad-hoc US weather research coordination committee (ZT, All, 10 mins)
7) Discussion on post-THORPEX interim & long-term organizational structure (ZT, All, 40 mins)
   a. Ad-hoc interagency weather research coordination committee
      i. Overall interagency coordination
      ii. Membership, leadership
   b. Interim community weather research planning committee
      i. Subgroups contributing to WWRP projects
      ii. Coordination across projects
      iii. Common research infrastructure
      iv. Leadership, membership
   c. International links
      i. Three THORPEX legacy projects
      ii. Other WWRP projects
   d. Names of committees
   e. Roles & responsibilities
   f. Funding needs
   g. Discussion on planned long-term organizational structure
8) Discussion on coordinated US community weather research initiative (Sharan Majumdar and Carolyn Reynolds, 25 mins, incl discussion)
9) Potential new partners (Guests from other agencies, 20 mins)
10) Review of Action Items; Miscellaneous topics (All, 5 mins)
11) Next meeting (All, 5 mins)
   a. Date / location
   b. Proposed agenda
12) Executive session of new ad-hoc interagency weather research coordination committee to discuss leadership and membership of new interim community weather research planning committee (Agency representatives, 15 mins)
DETAILED NOTES FROM THE LAST USTEC, AND THE INAUGURAL INTERIM
INTERAGENCY WEATHER RESEARCH COORDINATION COMMITTEE (IIWRCC)
MEETINGS

JAN. 5, 2015

Participants:
Melinda Peng (USTEC Member, US Navy / NRL), John Cortinas (USTEC member,
NOAA/OAR, missed part of 2nd half of meeting), Jessie Carman (NOAA), Chungu Lu
(USTEC member, NSF), Pat Harr (NSF), Edmund Chang (USTSSC Chair), Malaquias
Pena (USTSSC Co-Chair, NOAA/NCEP), Sharan Majumdar (USTSSC associate, Univ.
Miami), Carolyn Reynolds (USTSSC associate, NRL), Zoltan Toth (USTEC Chair,
NOAA/OAR). The first part of the meeting (Agenda items 1-3) was also attended by:
Laura Furgione (US Permanent Representative to WMO, NOAA/NWS), Courtney
Draggon (NOAA/NWS International Activities), and David Parsons (Univ. Oklahoma).

1) Greetings, adoption of agenda (All, 5 mins)
20-min break after agenda item 5

2) Remarks by Laura Furgione (US Permanent Representative to WMO and Deputy
Director, NWS) on US THORPEX accomplishments and post-THORPEX
planning (20 mins, incl. discussion)

In her remarks, Ms. Furgione highlighted some US THORPEX successes, outlined US
operational needs for further research on weather forecasting, and ensured the
research community of continued support from her and NOAA/NWS in its post-
THORPEX endeavors, including the establishment of interim committees for a
coordinated US response to the three WMO/WWRP international THORPEX legacy
projects (PPP, S2S, HIWeather).

3) Presentation of Certificates to key US THORPEX contributors (L. Furgione &
Awardees, 15 mins)

On the culmination of THORPEX, Ms. Furgione congratulated and presented
Certificates of Accomplishments to 21 US scientists with key contributions to the
success of the program.
<table>
<thead>
<tr>
<th>NAME</th>
<th>AFFILIATION</th>
<th>CONTRIBUTION</th>
<th>COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mel Shapiro</td>
<td>NCAR (formerly NOAA)</td>
<td>Vision, international leadership, and multifaceted research</td>
<td>Mel was the key initiator and early leader of the international THORPEX program</td>
</tr>
<tr>
<td>David Parsons</td>
<td>Univ. Oklahoma (formerly WMO &amp; NCAR)</td>
<td>National and international leadership, management, and observing systems research</td>
<td>Dave was the US THORPEX project lead before he became Chief of WWRD/WMO overseeing THORPEX; now he is writing a final report on THORPEX for WMO &amp; BAMS</td>
</tr>
<tr>
<td>Jim Hansen</td>
<td>NRL</td>
<td>National leadership and forecast applications research</td>
<td>Jim successfully led the US THORPEX Science Steering Committee</td>
</tr>
<tr>
<td>Edmund Chang</td>
<td>SUNY</td>
<td>National leadership and atmospheric dynamics research</td>
<td>Edmund currently leads the US THORPEX Science Steering Committee</td>
</tr>
<tr>
<td>Malaquias Pena</td>
<td>IMSG at EMC/NCEP</td>
<td>International outreach and predictability research</td>
<td>Malaquias, as a co-chair of the US THORPEX Science Steering Committee, is the US liason to THORPEX activities in the Americas</td>
</tr>
<tr>
<td>Istvan Szunyogh</td>
<td>TAMU</td>
<td>International leadership and predictability and data assimilation research</td>
<td>Istvan led, from start to end, the THORPEX Predictability and Dynamical Processes Working Group</td>
</tr>
<tr>
<td>Daryl Kleist</td>
<td>Univ. MD (formerly NCEP)</td>
<td>International leadership and data assimilation research</td>
<td>Daryl contributed to the success of the international Data Assimilation and Observing Systems WG</td>
</tr>
<tr>
<td>Tom Hamill</td>
<td>NOAA/OAR/ESRL</td>
<td>National and international</td>
<td>Tom led the international Data</td>
</tr>
<tr>
<td>Name</td>
<td>Affiliation</td>
<td>Leadership and Research Focus</td>
<td>Contributions</td>
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<tr>
<td>Walter Dabberdt</td>
<td>Vaisala</td>
<td>Leadership and ensemble and data assimilation research</td>
<td>Walter led the international Observing Systems WG</td>
</tr>
<tr>
<td>Rolf Langland</td>
<td>NRL</td>
<td>International leadership and observing systems research</td>
<td>Rolf contributed to the success of the international Data Assimilation and Observing Systems WG and played a leadership role in national and international field campaigns</td>
</tr>
<tr>
<td>Rebecca Morss</td>
<td>NCAR</td>
<td>Leadership and research focused on the socio-economic applications of weather forecasts</td>
<td>Rebecca played a key role in galvanizing the national and international community’s engagement with the Socioeconomic Research Applications Working Group</td>
</tr>
<tr>
<td>Pat Harr</td>
<td>NSF (formerly NPS)</td>
<td>Leadership and research on the dynamics and lifecycle of tropical cyclones</td>
<td>Pat played a key role in the successful international THORPEX Pacific-Asian Regional Campaign</td>
</tr>
<tr>
<td>Craig Bishop</td>
<td>NRL</td>
<td>International leadership and predictability and data assimilation research</td>
<td>Craig was a key contributor to the Predictability and Dynamical Processes WG</td>
</tr>
<tr>
<td>Barbara Brown</td>
<td>NCAR</td>
<td>Leadership and forecast verification research</td>
<td>Barb led the Joint WWRP/WGNE Working Group on Forecast Verification Research, with</td>
</tr>
<tr>
<td>Name</td>
<td>Organization</td>
<td>Contributions</td>
<td>Description</td>
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</tr>
<tr>
<td>Ron Gelaro</td>
<td>NASA</td>
<td>International leadership and predictability and data assimilation research</td>
<td>Ron led the Data Assimilation and Observing Systems WG.</td>
</tr>
<tr>
<td>Mitch Moncrieff</td>
<td>NCAR</td>
<td>International leadership in developing the Year of Tropical Convection (YOTC) project</td>
<td>By developing the successful Year of Tropical Convection project, Mitch strengthened the much needed connections between weather and climate research.</td>
</tr>
<tr>
<td>Duane Waliser</td>
<td>NASA/JPL</td>
<td>International leadership in developing the Year of Tropical Convection (YOTC) project</td>
<td>Duane’s research and leadership in intraseasonal tropical variability and predictability was key to the success of the Year of Tropical Convection project.</td>
</tr>
<tr>
<td>Steve Worley</td>
<td>NCAR</td>
<td>National and international leadership in developing the THORPEX Interactive Grand Global Ensemble (TIGGE) archive</td>
<td>Steve’s technical expertise and leadership was key to the success of the TIGGE archive, the cornerstone of THORPEX accomplishments.</td>
</tr>
<tr>
<td>Doug Schuster</td>
<td>NCAR</td>
<td>National and international leadership in developing the THORPEX Interactive Grand Global Ensemble (TIGGE) archive</td>
<td>Doug’s dedication and leadership made NCAR’s contribution to TIGGE a success.</td>
</tr>
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</table>
4) Review action items from last USTEC meeting (Zoltan Toth, all, 10 mins)

Action Items 1, 3, 4, 5, 7, and 8 from the Nov. 12 USTEC meeting have been completed. Item 2 will be incorporated into Action Items from the current meeting; and item 6 will be on the agenda of our next meeting.

5) Closing of USTEC business (Z. Toth, all – 10 mins)

Chungu asks about the status of TIGGE archiving at NCAR. Zoltan explains that three copies of TIGGE archive at ECMWF, NCAR, and CMA have been redundant. Also the portal to the TIGGE archive at ECMWF has been more user friendly and therefore the NCAR archive has not been heavily used. Therefore NCAR plans to discontinue archiving new TIGGE data while maintaining the existing archive for a transitional period. The archiving of Tropical Cyclone data in CXML format is expected to continue.

NCAR has been asked to consider archiving critical data for HIWeather or some of the other new projects.

As a last act of official business, USTEC transforms itself into a new interim committee (see below), after which both USTEC and USTSSC are formally closed; ongoing activities are transferred to the two interim committees (see below).

20-min break

<table>
<thead>
<tr>
<th>Name</th>
<th>Agency</th>
<th>Contributions</th>
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<tbody>
<tr>
<td>Glen Rutledge</td>
<td>NOAA/NCDC</td>
<td>National leadership in developing the THORPEX Interactive Grand Global Ensemble (TIGGE) archive</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Glen’s information technology and data processing expertise and leadership made the US contributions to the TIGGE archive a success</td>
</tr>
<tr>
<td>Yuejian Zhu</td>
<td>NOAA/NCEP</td>
<td>National and international leadership and ensemble forecasting research</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yuejian has led the North American Ensemble Forecast System and made significant contributions to the international GIFS-TIGGE WG</td>
</tr>
<tr>
<td>Zoltan Toth</td>
<td>NOAA/GSD</td>
<td>National and international leadership and ensemble forecasting research</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Zoltan was NAEFS project co-lead, NOAA THORPEX manager, USTEC chair</td>
</tr>
</tbody>
</table>
6) Launch of new ad-hoc US weather research coordination committee (ZT, All, 10 mins)

Recognizing the need for (1) continued national coordination of weather related research, (2) a coordinated US response to the three international THORPEX legacy projects, and (3) the efficient organization and use of weather research infrastructure, members of the former USTEC form the Interim Interagency Weather Research Coordination Committee (IIWRCC). The objectives of IIWRCC are:

a) Carry on ongoing overall interagency weather research coordination activities
b) Develop a long term organizational structure, including Terms of References (TOR) for such in the coming 6-12 months

7) Discussion on post-THORPEX interim & long-term organizational structure (ZT, All, 40 mins)

   a. Interim Interagency Weather Research Coordination Committee
      i. Overall interagency coordination
      ii. Membership, leadership

   b. Interim community weather research planning committee
      i. Subgroups contributing to WWRP projects
      ii. Coordination across projects
      iii. Common research infrastructure
      iv. Leadership, membership

   c. International links
      i. Three THORPEX legacy projects
      ii. Other WWRP projects

   d. Names of committees

   e. Roles & responsibilities

   f. Funding needs

   g. Discussion on planned long-term organizational structure

IIWRCC will provide overall interagency coordination of US response to the three international THORPEX legacy projects (PPP, S2S, HIWeather) and other national and international weather research projects. The IIWRCC will attempt to reinvigorate US weather research by the development of coordinated agency – community initiative(s).

Each agency participating in the IIWRCC can have one or more formal representatives and alternates with one formal vote per agency. Initial membership of IIWRCC is:

a) NOAA – John Cortinas (OAR, Jessie Carman as Alternate), and a representative from NWS
b) NSF – Pat Harr (Chungu Lu as Alternate)
c) US Navy – Melinda Peng (NRL) and Daniel Eleutero (ONR)

The IIWRCC will be chaired by Zoltan Toth (NOAA/OAR, no vote).

**ACTION ITEM #1:** John will request NWS to formally nominate their representative for the IIWRCC (Febr 27)
ACTION ITEM #2: Pat Harr will invite to the IIWRCC representatives from other NSF organizations with PPP, S2S, and social science related research responsibilities (Feb 27, 2015)

ACTION ITEM #3: Based on Terms of References (TOR) for USTEC and USTSSC and IIWRCC discussions, Pat Harr will develop a draft of TOR for both IIWRCC and ICWRPC and share with IIWRCC members for discussion at the next IIWRCC meeting (Febr 27)

The IIWRCC initiates the formation of the Interim Community Weather Research Planning Committee (ICWRPC). The main objective of the ICWRPC will be the development of a coordinated plan for US community contributions to the three THORPEX legacy (PPP, S2S, HIWeather) and other WWRP projects.

The IIWRCC appointed Sharan Majumdar (Univ. Miami) and Carolyn Reynolds (NRL) as co-chairs of the ICWRPC, with the possibility of the appointment of a third co-chair if needed. Initially, the ICWRPC will be constituted from US academic community and agency research laboratory contributors to the three international THORPEX legacy projects and WWRP Working Groups, and other experts in weather research, including some from the former USTSSC for continuity. The ICWRPC may establish subgroups linked with the various projects and with common research infrastructure supporting all projects.

ACTION ITEM #4: IIWRCC asks the ICWRPC co-chairs to develop a list of potential ICWRPC members for IIWRCC’s review and approval, with a goal of a total of 10-15 active members (15 Febr). The IIWRCC will provide feedback and suggestions so the co-chairs can prepare a refined list (March IIWRCC meeting).

Malaquias Pena (Co-Chair of USTSSC for international cooperation) reports about some discussions with scientists from Brazil and Argentina, including topics about the Research and Development Project for improving the prediction of systems with heavy precipitation over La Plata Basin (LPB ReD).

ACTION ITEM #5: IIWRCC asks Malaquias Pena to share new developments about US weather research coordination with weather research groups from the Americas to explore if there is enough interest to form a self-supporting regional research committee under WWRP to provide a regional forum after the THORPEX Regional Committees have been disbanded.

The objective of an Americas regional weather research committee may include the identification of research areas of common interest in the region with a potential for jointly developing and launching WWRP RDPs or FDPs. Such a WWRP regional committee may meet in conjunction with biannual CBS Regional Associations III (South
America) and IV (North and Central America) meetings to foster research to operations connections.

8) Discussion on coordinated US community weather research initiative (Sharan Majumdar and Carolyn Reynolds, 25 mins, incl discussion)

Sharan Majumdar gave an overview of research planning activities on behalf of a planning team (Edmund Chang, Malaquias Pena, and Carolyn Reynolds). Sharan listed US scientists on the international steering groups of PPP (Chris Fairall, David Bromwich, Marika Holland, Donald Perovich) and S2S (Andrew Robertson – co-chair, Ben Kirtman, Arun Kumar, Duane Waliser, Paul Dirmeyer - liaison)

**ACTION ITEM #6:** IIW RCC asks the ICWRPC co-chairs to reach out to and engage with key US contributors to the three THORPEX legacy projects, with an intention to establish good connections with climate research as well (27 Febr).

The international HIWeather project reached out to a few US scientists. The ICWRC is expected to play an important role in coordinating US contributions to the various WWRP projects.

**Research approach.** Sharan presented an outline (see below) for defining stretch goals and an approach for socioeconomically relevant weather research that (a) are of high interest to the agencies and (b) pose a great challenge and offer a potentially galvanizing force for the community. Such an approach may provide a common basis across the three THORPEX legacy projects and may serve as a starting point for US weather initiative(s).
Set ‘stretch goals’ – what services / predictions are necessary?

1. **Define** the hazard
   - Multiple meteorological sources
   - Motivation and need driven by *socio-economic perspective*

2. **Assess state and identify gaps** in service and forecasting
   - Where and why are service and forecasting inadequate?

3. **Set targets and objectives** using metrics that define hazard

4. **End-to-end scientific approach**: Public response; communication; evaluation; vulnerability and risk; effective products; R2O; ensembles; modeling; assimilation; observations; predictability and processes
   - **Integrate** existing and new efforts
   - Collaborate with **international** PPP, S2S, HIWeather

**Hazard list.** Sharan discussed a list of hazards or threats associated with extreme weather, see below.
Pat thought a broad categorization of hazards such as that indicated by the ellipses on Sharan’s slide can be useful. Others commented on the need of prioritization of 4-6 hazards/threats for initial planning.

**ACTION ITEM 7:** IIWRCC members share their agency’s list of priority hazards/threats and suggestions for the grouping of hazards/threats with their fellow IIWRCC members and the ICWRPC co-chairs (Jan 30)

**Common infrastructure.** Sharan argued that to avoid stovepiping and duplication of effort, infrastructure that is needed by more projects should be developed in a coordinated fashion (see slide below).
Legacy Project Commonalities

- Legacy projects may require similar NWP advancements, techniques, stretch goals may overlap between different projects, common R2O protocols, SERA type research
- Use common approach and infrastructure
  - Observations
  - Reanalyses and reforecasts
  - Ensembles
  - Scripts, code, executables
  - Verification toolbox
  - GIS database
  - Visualization

**ACTION ITEM #8:** IIWRCC asks the ICWRPC co-chairs to further elaborate on the research approach, prioritized hazards list, and common infrastructure and report progress at the next IIWRCC meeting (March IIWRCC meeting)

Sharan and Carolyn plan to convene a planning workshop in summer (likely June) 2015 where key elements of a coordinated US weather research plan will be further refined and writing assignments and other details will be agreed upon.

**ACTION ITEM #9:** IIWRCC asks the ICWRPC co-chairs to provide an estimate of resources they will need for the organization of the June workshop and other committee related efforts in FY15 & FY16.

**ACTION ITEM #10:** IIWRCC asks the ICWRPC co-chairs to develop and execute a plan for the transition of the US THORPEX website from SUNY (Edmund Chang) to a US weather research coordination website maintained at the Univ. Miami (or other appropriate host, Mar 31)
**ACTION ITEM #11:** IIWRCC asks the ICWRPC co-chairs to identify archiving needs that could potentially be met by NCAR or other organizations in support of the THORPEX legacy projects and report to IIWRCC (June 30)

9) Potential new partners (Guests from other agencies, 20 mins)

Participants asked about NASA participation in USTEC and IIWRCC. Zoltan pointed out that partly due to successive reorganizations NASA participation in USTEC had gaps. The NASA seat remained vacant after the last representatives (Jared Entin and John Haynes) left USTEC ~2 years ago.

**ACTION ITEM #12:** Chungu and Carolyn will discuss the new US weather research coordination efforts with Tsengdar Lee from NASA Headquarters, and Zoltan will formally invite him (or his representative, possibly David Considine) to become a member of IIWRCC (March 31)

While acknowledging the need for national scale coordination of weather research, John suggested the IIWRCC clearly articulate its objectives relative to related agency and community organizations / initiatives (e.g., Office of Federal Coordinator for Meteorology, existing AMS committees, US CLIVAR, etc).

As discussed earlier, OFCM is not research focused; the AMS committees are broader and/or different in scope, US CLIVAR is not weather focused. Zoltan pointed out the unique role IIWRCC and ICWRPC can play in coordinating weather research on the national scale and linking it up with WMO/WWRP international activities.

Pat said he would reflect on above discussion about unique role of IIWRCC’s when preparing the “objectives” part of the draft TOR for IIWRCC.

**ACTION ITEM #13:** All IIWRCC members and associates are asked to be ready to discuss the IIWRCC & ICWRPC weather research coordination activities at agency and community meetings (e.g., NOAA Satellite Science Week, Febr, Zoltan; NASA community input meeting, May, Carolyn and Pat; ongoing)

Malaquias asked about the role of the private sector US weather research coordination. There was not enough time to discuss this item. It was mentioned that various AMS committees allow for active participation by the private sector. Perhaps interested companies can be invited to become stakeholders in various hazard/threat related projects.

10) Review of Action Items; Miscellaneous topics (All, 5 mins)

Action items are listed near the top of this document.

11) Next meeting (All, 5 mins)
   a. Date / location
b. Proposed agenda

**ACTION ITEM #14:** Zoltan will set up a ~2 hour teleconference for the next IIWRCC meeting in first half of March (March 2015)

Agenda items for next IIWRCC meeting:
- a) TORs for successor of IIWRCC & ICWRPC
- b) Approach to inviting participation in IIWRCC from other agencies; list of agencies to invite
- c) Update on planning activities from ICWRPC
- d) Discussion on proposed membership for ICWRPC
- e) Next steps

12) Executive session of new ad-hoc interagency weather research coordination committee to discuss leadership and membership of new interim community weather research planning committee (Agency representatives, 15 mins)

See notes above about IIWRCC’s decision on ICWRPC co-leads.