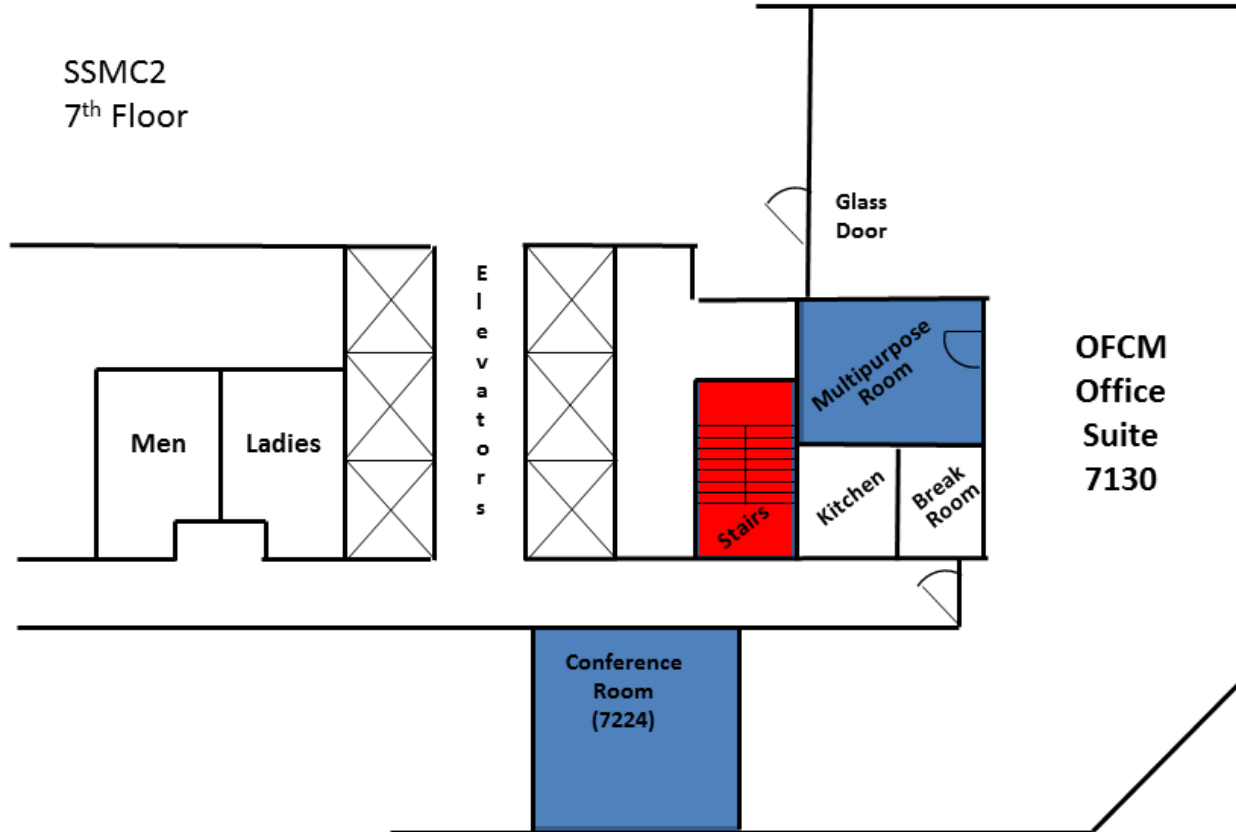

Interdepartmental Weather Research Coordination Committee Meeting 2018-1

Jan 19, 2018

Administrative Info

- **Meeting will be recorded in order to produce a Record of Actions**
- **Facilities**
- **Telecon / GoToMeeting**
 - Dial-in 1-888-680-9581, passcode 535430#
- **GoToMeeting:** <https://global.gotomeeting.com/join/648727085>
- **Slides to be posted at:**
<http://www.ofcm.gov/icmssr/meetings.htm>
 - **Please advise us of any sensitivities**

OFCM Floor Plan



Today's Agenda

- Chair's Opening remarks
- Administration
 - Chair Interest Items
 - Review Action Items
- Coordination Process Framework
- Strategic Plan Inputs
- ICMSSR Briefing
- Open Discussions
- Adjourn

Opening Remarks

Interdepartmental Committee for Meteorological Services and Supporting Research (ICMSSR)

Dr. John Cortinas (NOAA)
Dr. Tsengdar Lee (NASA)
Co-Chairs, IWRCC

- **Welcome**
- **Roll Call**
- **Approve Agenda.**

Chair's Items

- High Impact Weather Newsletter call for inputs
- Elucidating the role of cloud-circulation coupling in climate
<http://www.eurec4a.eu/>

Previous Action Items

Action Items from 16 November 2017 Meeting

2017-4.1: NSF will review ToR with their leadership and provide concurrence on the ToR, or provide a path for IWRCC to achieve concurrence.

2017-4.2: The three Working Group leaders will compile a list of prospective members and submit to IWRCC for review.

Previous Action Items

2017-4.3: Dr Waliser will provide information which would facilitate IWRCC member agencies providing financial support to ECMWF S2S database, specifically:

- a) An (approximate) itemization of how the \$50K would be spent.
- b) A description or listing of some research that has already benefited from access to this database.
- c) Identification of other potential fiscal partners (including other existing programs.)
- d) A commitment that the purpose of the database will continue to be scientific usage.
- e) An idea of the long term strategy for the data base, for example will there be a financial maintenance plan put in place, or will the database be taken off-line and archived, or are other end states envisioned. The concern here is that this does not become an open-ended financial commitment.

2017-4.4: Revise the draft coordination process diagram to include a clear separation of federal policy and community science activities.

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Research Coordination Process

Starter question: What will be the mechanics of the IWRCC?

- How do we decide on a research agenda?
- How do we communicate recommendations to the ICMSSR and the community at large?

From Summer meeting's Record of Actions:

Responding to Dr. Cortinas question of suggesting ways to improve effectiveness (of the IWRCC), Dr. Morgan suggested creating a “standing town hall” that focuses on these projects at AMS and/or AGU, and would alert communities to recent and expected near-future advancements. Other organizations have used monthly telecons to update others on research accomplishments, and some use web bulletin boards or ‘wikis’; these may be models we can use in the IWRCC and Working Group.

Science Working Group looks for existing efforts that relate to federal priorities and needs.

Federal agencies describe their research priorities and needs. (ICMSSR directed)

In an ongoing process, the IWRCC and Science Working Group trade information on federal priorities (as described by ICMSSR) and relevant projects/programs in the greater community, focusing on areas appropriate for interagency collaboration. Develop focus areas/agenda topics for the follow-on meeting (blue oval below.)

Previously, at the IWRCC.....

Science Working Group reports findings/identifies opportunities.

Federal agencies (program managers) advertise their ongoing & early-stage efforts.

This is a periodic (annual?) workshop or conference event organized by IWRCC/OFCM at which Program Managers and Science WG share ongoing and planned efforts on select areas of study. Loosely structured (vice a series of 15 minute presentations) to allow for max interaction.

Partnerships and coordinated efforts are established.

HiW S2S PPP Extended Range Etc, etc...

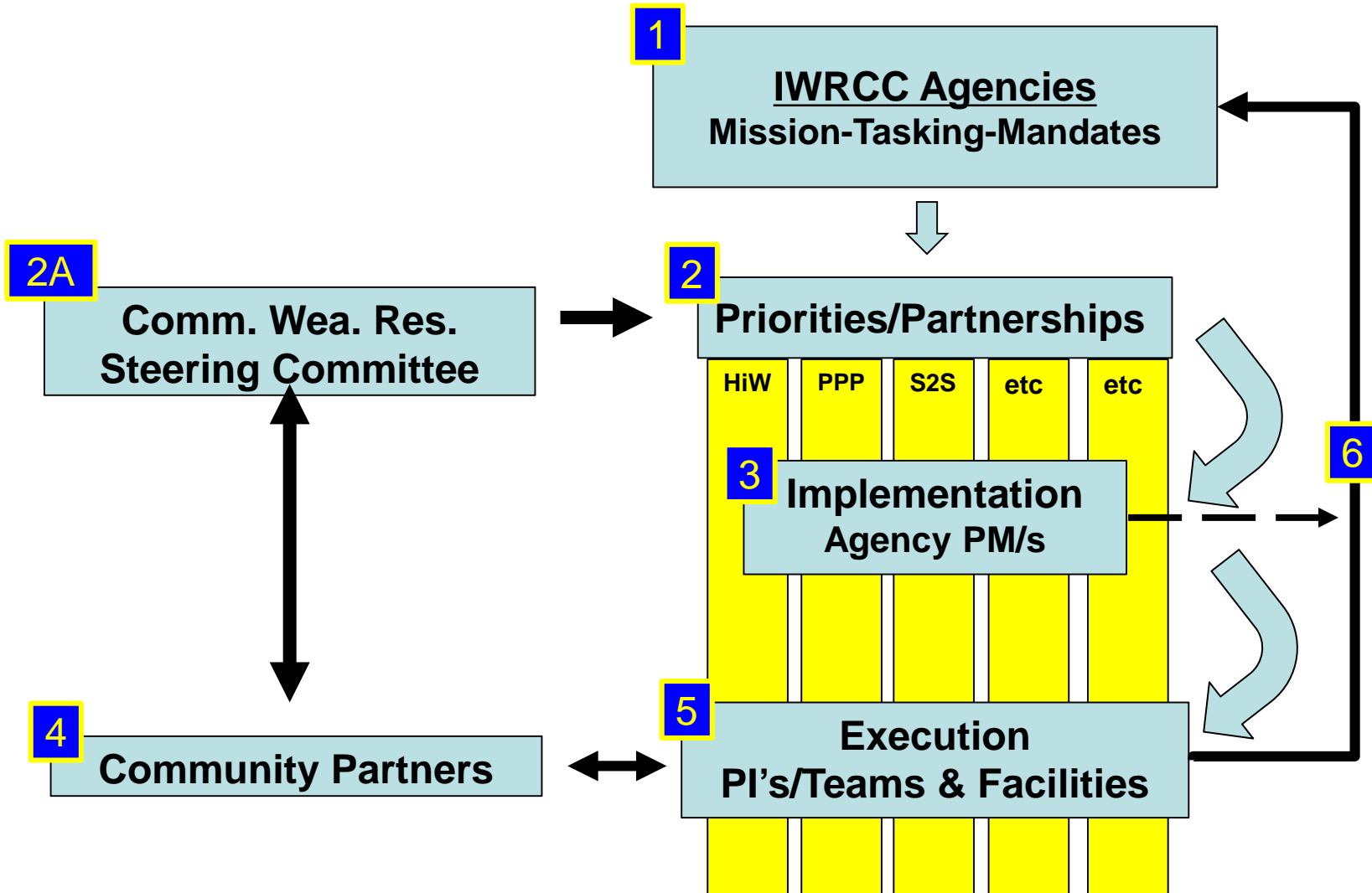
Hopefully investigators and PMs from multiple agencies find common interests and build partnerships that leverage resources (or at least prevent duplicative efforts.) Could satisfy some Weather Act mandates.

Project results/ongoing partnerships reviewed to assess effectiveness at meeting federal needs.

This is some type of mid-process check to see if this is a valuable exercise. (Still fuzzy on the particulars.) Could be a few pages included in the annual OFCM coordination activities report listing new partnerships/projects or results/endings of projects. Report on projects moving along the R2O continuum.

“DRAFT”
11/15/17

IWRCC and Science Working Group Coordination Model (DRAFT 1/19/2018)



IWRCC and Science Working Group Coordination Model **(DRAFT 1/19/2018)**

1

IWRCC: Helps to coordinate U.S. weather agency research priorities, promote U.S. interests in the participation of well-defined international projects, and explore and engage with new national and international weather research initiatives. At the top of this coordination model, agencies would make their research priorities known to all through discussion, aggregation on a web page, periodic reporting, or other means.

2

The IWRCC would identify the common priorities among federal agencies in key areas, and recommend to agency leadership the formation of (additional) beneficial partnerships (formal and informal) and the specifics of coordination in particular areas.

2A

Community Weather Research Steering Committee: Promotes Scientific Leadership for the Coordination of U.S. involvement in weather research projects. Informs the IWRCC on matters concerning scientific integrity and progress of such projects

3

Agency PMs implement their agencies' guidance, and implement IWRCC coordination advice as applicable.

4

The science community leaders interact with the CWRSC and provide input/feedback on research opportunities and progress.

5

Researchers and investigators perform the relevant research.

6

Feedback (w/PM oversight) to IWRCC regarding effectiveness of coordination and partnerships

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New Federal Coordination Documents

Old:



- Single publication
- Produced annually
- 200+ pages
- Multiple detailed spreadsheets
- Released in October
- No formal review

New :



First publication (proposed):

- Strategic Plan
- Published every four years
- Composed by interagency group
- Approved by FCMSSR



Second publication (published):

- Annual Report
- Smaller (~50 pages)
- Few tables (satisfies PL 87-843)
- **Progress towards Strategic Goals and Objectives (Agencies, Committees)**
- Released in March (normally, but not FY18 version)
- OMB Review

Strategic Plan: Proposed Way Ahead

Intended Actions:

- ~~Get cover letter signed by RDML Gallaudet (meeting 1 Dec).~~ (DONE)
- **Direct Federal Weather Enterprise Committees and Working Groups to ready a report of ongoing actions and existing plans within their subject matter areas that support the objectives of the Strategic Plan. Individual agencies will be given opportunity to add and/or comment.**
- Include these summaries in FY19 Annual Report. (Recurrs annually.)
- ICMSSR (OFCM) conduct gap analysis and issue directions to Committees/Working Groups as appropriate.
- Beginning CY20, revise/review Strategic Plan (via Joint Action Group), issue in CY21 for FY 22-26.

Strategic Plan for Federal Weather Enterprise Coordination

Through interagency collaboration and cooperation, including both formal and informal partnerships:

1. Improve the resolution, frequency, information content, and sustainability of global observing capabilities.
2. Make Federal forecasting processes more resilient for all relevant time and spatial scales.
3. Improve interagency collaboration to support effective and consistent decision-support products, information, and services.
- 4. Conduct productive, synergistic interagency research efforts.**
5. Develop, recruit, and sustain a diverse Federal weather workforce.
6. Coordinate messaging about FWE priorities and needs.

-- Seeking Cover Letter signed by new (acting) FCMSSR Chair --

Strategic Goal #4. Conduct productive, synergistic interagency research efforts. (IWRCC Inputs)

Objective 4.1: Exercise leadership in coordinating U.S. efforts in international weather research priorities including the current WMO Grand Challenges.

The Interdepartmental Weather Research Coordination Committee was re-chartered in 2017 to work within the Federal Weather Enterprise to “promote and help coordinate basic and applied U.S. research activities aimed at a better fundamental understanding and improved prediction” of important atmospheric phenomena. The IWRCC is developing a coordination process which will increase visibility among agencies of priorities and projects, with specific focus on the World Meteorological Organization focus areas of High-Impact Weather, Polar Prediction, and Seasonal to Subseasonal forecasting.

Objective 4.2: Foster interagency collaboration of research initiatives starting at the planning stage.

The IWRCC’s draft collaboration process includes sharing of interagency research priorities and to look for synergistic partnerships. In support of these efforts, the Community Weather Research Steering Committee (CWRSC) will provide advice, expertise and feedback on the scientific merit and integrity of these projects. The CWRSC is composed of academic and other scientific community experts in the fields under IWRCC’s areas of focus (i.e. High Impact Weather, Polar Prediction, and Seasonal forecasting.)

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ICMSSR Meeting (February)

Interdepartmental Weather Research Coordination Committee

- IWRCC Terms of Reference
- Science Working Group Terms of Reference
- Coordination Structure
- Current issues under consideration

IWRCC Charter: Purpose

The IWRCC promotes and helps to coordinate basic and applied U.S. research activities aimed at a better fundamental understanding and improved prediction of high-impact weather related to variations in atmospheric-ocean circulations over high latitudes and over subseasonal-to-seasonal time scales for future socioeconomic and environmental benefits, including applications in support of weather-sensitive decision making at Federal, State, and other agencies (i.e., “high impact weather research”). In particular, IWRCC helps to

- (a) coordinate U.S. agency weather research priorities,
- (b) promote U.S. interests in the participation of well-defined international projects, and
- (c) explore and engage with new national and international weather research initiatives, including those associated with the THORPEX legacy projects.

IWRCC provides a forum where agencies can best leverage efforts among themselves and in the international community to achieve agency goals.

Interdepartmental Weather Research Coordination Committee

IWRCC Charter: Roles and Responsibilities

- Promote coordination of U.S. agency and community involvement for a coherent national input and response to domestic and international projects, when possible.
- Map, where appropriate and needed, US agency programs and initiatives onto large interagency projects, including but not limited to the Interagency Arctic Research Policy Committee (IARPC), U.S. CLIVAR, U. S. Global Change Research Program (USGCRP), the National Earth System Prediction Capability (National ESPC), the Next Generation Global Prediction System (NGGPS) initiative led by NOAA, and the U.S. Group on Earth Observations (USGEO), as well as engage with relevant American Meteorological Society (AMS) activities and committees such as the AMS Policy Program.
- Enhance U.S. basic and applied weather research capabilities by fostering the development of coordinated agency - community initiatives related to large interagency projects.
- Facilitate the optimal and shared use of national and international research infrastructure such as data archives, evaluation tools, and testing environments in support of projects.
- Support the possible transition of weather research activities to improved environmental forecasting of extreme events at US operational agencies.
- Define its role, appoint its chairs and approve its membership, and oversee the activities of the Community Weather Research Steering Committee (CWRSC).
- Review progress and provide feedback to CWRSC and to others, as requested, in the execution of US research activities contributing to projects.
- Compile and share with agencies brief annual summaries of IWRCC plans, activities, and accomplishments including metrics of success when available.
- Keep the U.S. Permanent Representative to the World Meteorological Organization informed of the Committee's activities and plans.

IWRCC Charter: Members

Member Agencies

- NASA - Earth Science Division (ESD) (**current Co-Chair**)
- NOAA - Office of Oceanic and Atmospheric Research (OAR) (**current Chair**)
- NOAA - National Weather Service (NWS)
- NSF - Division of Atmospheric and Geospace Sciences
- US Navy - Office of Naval Research (ONR)
- US Navy – Oceanographer of the Navy (N2N6E)

Potential Future Member Agencies:

- Department of Energy (DOE)
- Federal Aviation Administration (FAA)
- United States Geological Survey (USGS)
- US Air Force
- Department of the Interior Bureau of Ocean Energy Management (BOEM)
- Environment Canada

Community Weather Research Steering Committee: Purpose

The CWRSC promotes scientific leadership for the coordination of U.S. involvement in the PPP, S2S and HIW efforts. Additionally, the CWRSC informs the IWRCC on matters concerning the scientific integrity and progress of such projects.*

*CWRSC ToR in draft, awaiting NSF approval.

Weather Research Steering Committee: Roles and Responsibilities

- Develop a conceptual framework for the coordination of US high impact weather related research in the context of the three projects, as well as coordinate the development of implementation plans for related national and international projects.
- Consult with appropriate Program Managers to Identify research in support of the three projects that potentially serves U.S. national interests, is aligned with agency plans with a potential for long-term benefits to society, the economy, and the environment, and has a high likelihood of transition to applications at US operational weather agencies.
- Engage the U.S. community in the three projects and present options for collaboration and coordination such as leveraging scientific community meetings, holding periodic open meetings or workshops, disseminating information on projects, opportunities, and changing priorities, and assimilating advice and suggestions from research communities at large.
- Interface with related and associated international activities through:
 - Representation of U.S. agency science interests and individuals of scientific expertise;
 - Relaying to the international projects U.S. national research priorities and expertise, socio-economic needs, and concepts for proposed field campaign and demonstration projects; and
 - Interaction with relevant WWRP and WCRP (World Climate Research Program) Working Groups
- Inform the IWRCC through periodic updates about ongoing international and US high impact weather research in the context of the three projects and other associated projects, possible future scientific directions, and related resource requirements.
- The Office of the Federal Coordinator will provide Executive Secretary services, to assist in creating meeting Records of Action, tracking action items, and coordinating meeting logistics.

Weather Research Steering Committee : Membership

MEMBERSHIP

- The CWRSC shall consist of no more than 18 members, including up to three Co-Chairs
- IWRCC will appoint the Co-Chair(s), and based on the Co-Chair(s)' recommendation, the members of the WRSWG for initial terms of up to three years, with the possibility of an extension for one additional term of three years.
- Expertise of the membership, to the extent possible, will span the scientific breadth of the impactful weather research including its societal component.
- Membership should include scientific experts from government, academia, private sector, and other North American weather research agencies.
- A member from each of the three project teams will be members of the WRSWG.
- In carrying out IRWCC roles and responsibilities as set forth in 3, above, members shall provide their individual opinions, advice and recommendations which shall be recorded as part of IRWCC deliberations on such matters. At no time will the CWRSC provide consensus opinions, advice and recommendations.*

*Language provided by NOAA Office of General Counsel

IWRCC Coordination Structure

Placeholder

IWRCC Current Issues Under Consideration

- S2S Database Support
- Community Science Working Group Roster
- Etc....(looking for IWRCC suggestions here....)

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Closing

- Review new action items
- Proposed agenda items and time for next meeting