

WICP Water Information Coordination Program
ACWI Advisory Committee on Water Information

Subcommittee on Hydrology (SOH)

ACWI-SOH Quarterly
Thursday 01/22/2015
USDA South Building
1400 Independence Ave
Washington, DC 20250

Victor Hom, SOH Chair
NOAA National Weather Service

Robert Mason, SOH Vice-Chair
United States Geological Survey

Remote Participants:

1. Log-into: <https://global.gotomeeting.com/join/330325369> (Meeting ID: 2330-325-369) and
2. dial toll-free line: 1-877-989-4696 with Passcode: 1547347.
3. If PC fails, please download the slides and follow along.

01/22/2015 SOH Quarterly 1

WICP Water Information Coordination Program
ACWI Advisory Committee on Water Information



- **Water Information Coordination Program**
The WICP ensures collaborative efforts among Federal Agencies to improve water information for decision-making about natural resources management and environmental protection.
- **Advisory Committee on Water Information**
The ACWI represents the interests of water-information users and professionals in advising the Federal Government on Federal water-information programs and their effectiveness in meeting the Nation's water-information needs.

01/22/2015 SOH Activities 2

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SOH Member Organizations

1. Agricultural Research Service (ARS)	11. National Aeronautics and Space Administration (NASA)
2. Association of State Floodplain Managers (ASFPM)	12. National Hydrologic Warning Council (NHWC)
3. BECKER	13. National Science Foundation (NSF)
4. <i>Bureau of Land Management (BLM)</i>	14. Natural Resources Conservation Service (NRCS)
5. <i>Bureau of Reclamation (USBR)</i>	15. NOAA National Weather Service (NWS)
6. Environmental Protection Agency (EPA)	16. Nuclear Regulatory Commission (NRC)
7. Federal Emergency Management Agency (FEMA)	17. Office of Surface Mining (OSMRE)
8. Federal Energy Regulatory Commission (FERC)	18. U.S. Army Corps of Engineers (USACE)
9. Federal Highway Administration (FHWA)	19. United States Geological Survey (USGS)
10. Forest Service (USFS)	

01/22/2015 SOH Activities 3

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Subcommittee On Hydrology

Purpose
 Improve the availability and reliability of surface-water quantity information needed for hazard mitigation, water supply and demand management, and environmental protection.

Activities
 Quarterly Meetings, Workgroups, Workgroup Meetings, Newsletters, Conferences.

Website
<http://acwi.gov/hydrology/index.html>

01/22/2015 SOH Activities 4

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SOH Workgroups

- Hydrologic Frequency Analysis Work Group (HFAWG)
- Extreme Storm Events Work Group (ESEWG)
- Hydrologic Modeling Work Group (HMWG)
- Satellite Telemetry Interagency Work Group (STIWG)

01/22/2015 SOH Activities 5

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SOH Activities

- Quarterly Meetings hosted by Member Agencies
- Participation by Senior Officials, Advisors, Staff of the Host Agency, SOH Members, and Guests
- Formal Presentation on a Topic of Mutual Interest
- SOH Review of Workgroup Activities
- Member Agency reports
- Cross collaboration with other ACWI Subcommittees

01/22/2015 SOH Activities 6

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USDA
United States Department of Agriculture

Words From our Host



NRCS
Natural Resources Conservation Service



Welcome to USDA Washington, DC

About USDA

- [Natural Resources Conservation Service](#)
 - [Agricultural Research Service](#)
 - [Forest Service](#)

Key Attendees

Emergency Procedures

Facilities



01/22/2015
SOH Activities
9

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SOH Quarterly Meeting Agenda

- Welcome and Background on SOH (5 mins)
- Words from our Host (10 mins)
- Roll-Call (Remote Participants/In-Person Attendees)
- Review and Approval of Agenda (2 mins)
- Review Past Meeting Summary (2 mins)
- Review Action Items from Past Meeting (5 mins)
- Feature Presentation (~60 mins)
 - **David Toll, NCDC**
 - [Overview of NASA's Earth Observation Systems for Hydrology](#) (1:05 – 1:50 PM)
 - **Q&A/Discussion** (1:50 – 2:05 PM)
- **Announcements (10 mins)**
 - Business Reports,
 - [ACWI SEDHYD Conference – April 19-23, 2015](#)
 - Other Conferences
- **BREAK (2:15 – 2:30 PM)**
- **News from the SOH Workgroups (30 mins)**
 - HFAWG, ESEWG, HMWG, STIWG
 - STIWG Terms of Reference
- **Review Actions and Plans for next SOH meeting (15 mins)**
- **Meeting Adjourn (Around 3:30 pm)**

01/22/2015
SOH Activities
10

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ACWI Advisory Committee on Water Information

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01/22/2015 SOH Activities 11

WICP Water Information Coordination Program
ACWI Advisory Committee on Water Information

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01/22/2015 SOH Activities 12

WICP Water Information Coordination Program
ACWI Advisory Committee on Water Information

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01/22/2015 SOH Activities 13

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ACWI Advisory Committee on Water Information

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01/22/2015 SOH Activities 14

WICP Water Information Coordination Program
ACWI Advisory Committee on Water Information

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01/22/2015 SOH Activities 15

WICP Water Information Coordination Program
ACWI Advisory Committee on Water Information

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 - **Dongsoo Kim, NCDC**
 - **NCDC Precipitation Data** (1:05 – 1:50 PM)
 - **Q&A/Discussion** (1:50 – 2:05 PM)

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01/22/2015 SOH Activities 16

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ACWI Advisory Committee on Water Information

SOH Hydrologic Frequency Analysis Workgroup (HFAWG)

- **Will Thomas, Chair** Baker/ASFPM
- **John England, Vice-Chair**, US Bureau of Reclamation (USBR)

Purpose and Goals:

- recommend procedures to increase the usefulness of the current guidelines for Hydrologic Frequency Analysis computations,
- evaluate other procedures for frequency analysis of hydrologic phenomena, and
- forward draft papers and recommendations to the Subcommittee on Hydrology of ACWI for appropriate action.

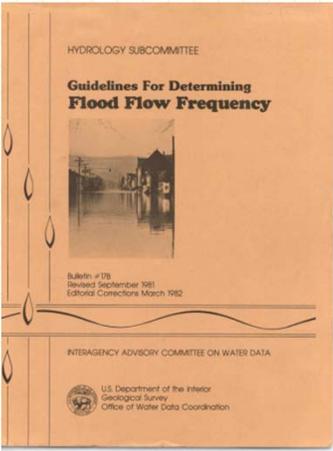
01/22/2015
SOH Activities
17

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SOH Hydrologic Frequency Analysis Workgroup (HFAWG)

Updating Bulletin 17B Guidelines:

- Published in March 1982, based on research from 1960s and 1970s
- HFAWG is updating Bulletin 17B using pertinent research since 1982
- Incorporating new statistical procedures for analyzing historical floods and nonstandard flood data and adjusting for low floods
- http://water.usgs.gov/osw/bulletin17b/bulletin_17B.html



01/22/2015
SOH Activities
18

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ACWI Advisory Committee on Water Information

SOH Hydrologic Frequency Analysis Workgroup (HFAWG)

Progress since July 2012 ACWI meeting

- * June 2013 – HFAWG voted to accept recommended revisions to B17B
- * August 2013 – SOH voted in favor of HFAWG drafting a new B17C
- * April 2014 – completed the testing report on “Evaluation of Recommended Revisions to Bulletin 17B” – to be published as USGS report
- * USGS developed PeakFQ 7.0 program that implements EMA/MGB with new confidence intervals
- * Currently drafting a new Bulletin 17C to be published as USGS Circular – effort being lead by USBR, USGS, and USACE

01/22/2015 SOH Activities 19

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ACWI Advisory Committee on Water Information

SOH Hydrologic Frequency Analysis Workgroup (HFAWG)

Draft Bulletin 17C

USGS
Prepared in cooperation with the Hydrologic Frequency Analysis Work Group, Subcommittee of Hydrology

Guidelines for Determining Flood Flow Frequency

Bulletin 17C



Circular XXXX – DRAFT for review purposes only

U.S. Department of the Interior
U.S. Geological Survey

01/22/2015 SOH Activities 20

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ACWI Advisory Committee on Water Information

SOH Hydrologic Modeling Workgroup (HMWG)

- **Jerry Webb, Chair** US Army Corp of Engineers (USACE),
- **Joe Giacinto, Vice-Chair**, Nuclear Regulatory Commission (USNRC)

Purpose and Goals:

- Promote sharing of information on modeling tools and modeling systems in hydrology and water resources.
- Plans, organizes, and promotes the Federal Interagency Hydrologic Modeling Conference every four years and
- Engages in other modeling related activities as appropriate.

01/22/2015
SOH Activities
21

WICP Water Information Coordination Program
ACWI Advisory Committee on Water Information

SOH Hydrologic Modeling Workgroup (HMWG)

- **Jerry Webb, Chair** US Army Corp of Engineers
- **Joe Giacinto, Vice-Chair**, Nuclear Regulatory Commission (USNRC)



Actions/Accomplishments:

- SEDHYD 2015 (April 19-23, 2015) - www.sedhyd.org/2015/
- Joint 10th Federal Interagency Sedimentation and 5th Hydrologic Modeling Conference.
- 250 abstracts, 20 posters, 10 model demos, short courses, student program, and 5 technical field explorations/reconnaissance surveys of our changing world.

01/22/2015
SOH Activities
22

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ACWI Advisory Committee on Water Information

SOH Extreme Storm Events Workgroup (ESEWG)

- **Thomas J. Nicholson, Chair** US Nuclear Regulatory Commission (US-NRC)
- **Vacant, Vice-Chair**

Purpose and Goals:

- ❑ coordinate studies and databases for reviewing and improving methodologies and data collection techniques used to develop design precipitation estimates of large storm events up to and including the Probable Maximum Precipitation (PMP).
- ❑ develop a detailed scope of work/plan of study, and
- ❑ determine the necessary funding requirements to update the Catalog of Extreme Storms and Hydrometeorological Reports (HMR) for estimating PMP.

01/22/2015 SOH Activities 23

WICP Water Information Coordination Program
ACWI Advisory Committee on Water Information

SOH Extreme Storm Events Workgroup (ESEWG)

- **Thomas J. Nicholson, Chair** Nuclear Regulatory Commission (US-NRC)



Actions/Accomplishments:

- ❑ ESEWG Workshop on May 15, 2014
 - ❑ *defined needed extreme precipitation products*
 - ❑ *collected feedback from Federal, State agencies, and member organizations of the ICODS and NDSRB on their user needs for Extreme Storm data and services, and*
 - ❑ *established ESEWG Proposal Writing Team (PWT)*
- ❑ Workshop on Probabilistic Flood Hazard Assessment on January 29-31, 2013 in Rockville, MD

01/22/2015 SOH Activities 24

WICP Water Information Coordination Program
ACWI Advisory Committee on Water Information

SOH Satellite Telemetry Interagency Workgroup (STIWG)

- **Dan Schwitalla, Outgoing Chair** USGS
- **LySanias Broyles, Incoming Chair** USACE

Purpose and Goals:

- User group for the Geostationary Operational Environmental Satellite (GOES) Data Collection System (DCS).
- Advises NOAA National Environmental Satellite, Data, and Information Service (NESDIS) on matters concerning satellite data relay user requirements
- Undertakes projects to benefit the GOES DCS community

01/22/2015
SOH Activities
25

WICP Water Information Coordination Program
ACWI Advisory Committee on Water Information

SOH Satellite Telemetry Interagency Workgroup (STIWG)

- **Dan Schwitalla, Outgoing Chair** USGS
- **LySanias Broyles, Incoming Chair** USACE

Actions/Accomplishments:

- 118th STIWG Meeting - May 2014
 - DCS Administration and Data Distribution System (DADDS)
 - Emergency Data Distribution Network (EDDN)
 - Domestic Communications Satellite (DOMSAT)
- 100 baud DCP Transmitters to be replaced by May 2015
- Low Rate Information Transmission (LRIT) - alternative to DOMSAT



01/22/2015
SOH Activities
26

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ACWI Advisory Committee on Water Information

SOH Satellite Telemetry Interagency Workgroup (STIWG)

- **Dan Schwitalla, Outgoing Chair** USGS
- **LySanias Broyles, Incoming Chair** USACE

Actions/Accomplishments:

Updated 2006 Terms of Reference for SOH Review

- STIWG Membership (III B and C)*
- Joint Sponsorship of STIWG with Interdepartmental Committee for Meteorological Services and Supporting Research (ICMSSR)*
- Role of NESDIS and Support from OFCM (III C)*
- Recommendation to Biennial Rotation (III E)*
- Voting (IV C)*

01/22/2015 SOH Activities 27

WICP Water Information Coordination Program
ACWI Advisory Committee on Water Information

Plans for Upcoming Meetings

Thursday April 23, 2015

- Joint Federal Interagency Conference April 2015 - www.sedhyd.org/2015/

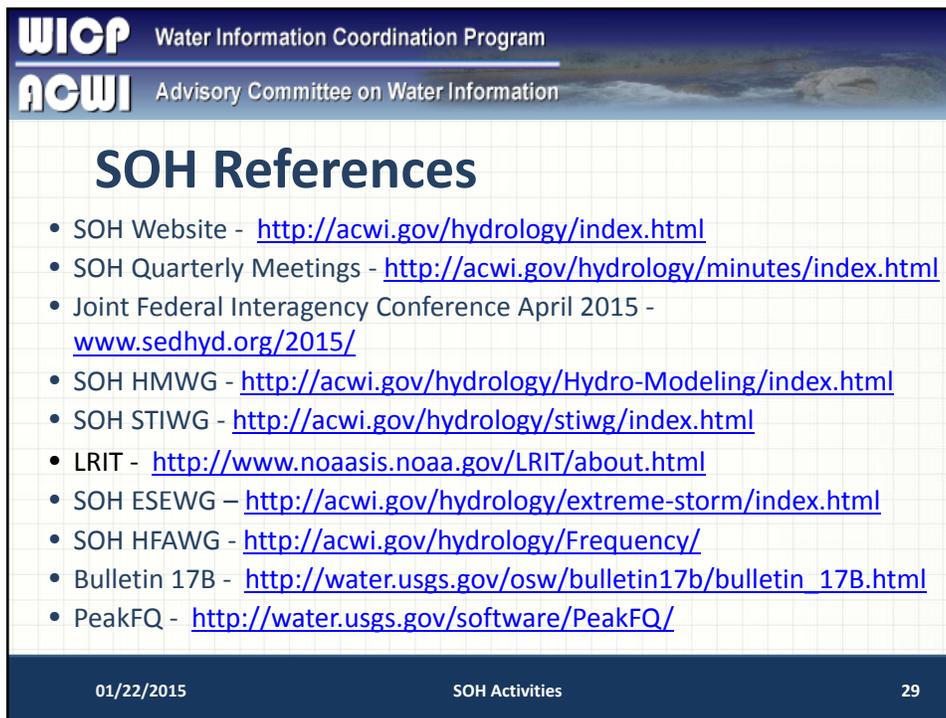
Thursday April 30, 2015

- SOH Quarterly at [Turner Fairbank Highway Research Lab](#) - McLean, VA
[Highways in the Coastal Environment and Assessing Extreme Events](#)

Thursday July 23, 2015

- 1230PM-330PM Eastern
- in DC Area – Suggestions? Host?
- Topics (HFAWG and ESEWG Presentations), Prep for ACWI Annual

01/22/2015 SOH Activities 28



WICP Water Information Coordination Program
ACWI Advisory Committee on Water Information

SOH References

- SOH Website - <http://acwi.gov/hydrology/index.html>
- SOH Quarterly Meetings - <http://acwi.gov/hydrology/minutes/index.html>
- Joint Federal Interagency Conference April 2015 - www.sedhyd.org/2015/
- SOH HMWG - <http://acwi.gov/hydrology/Hydro-Modeling/index.html>
- SOH STIWG - <http://acwi.gov/hydrology/stiwg/index.html>
- LRIT - <http://www.noaasis.noaa.gov/LRIT/about.html>
- SOH ESEWG – <http://acwi.gov/hydrology/extreme-storm/index.html>
- SOH HFAWG - <http://acwi.gov/hydrology/Frequency/>
- Bulletin 17B - http://water.usgs.gov/osw/bulletin17b/bulletin_17B.html
- PeakFQ - <http://water.usgs.gov/software/PeakFQ/>

01/22/2015 SOH Activities 29