



DRIHM2US

DISTRIBUTED RESEARCH INFRASTRUCTURE
FOR HYDRO-METEOROLOGY TO
UNITED STATES OF AMERICA

Workshop B1

Using Research Infrastructures for Integrated Environmental Modeling

Tues 17th June, iEMSs 2014, San Diego
Quillon Harpham, HR Wallingford
Bert Jagers, Deltares
Ilya Zaslavsky, SDSC



Workshop Description

- 🌀 Assembling model and data components;
- 🌀 Easy access to components;
- 🌀 Using recognized standards;
- 🌀 Collaboration between scientific and ICT communities.



Workshop Purpose

- 🌀 Demonstration;
- 🌀 Share experiences, debate and tease out issues;
- 🌀 Promote discussion (between scientists and ICT communities).





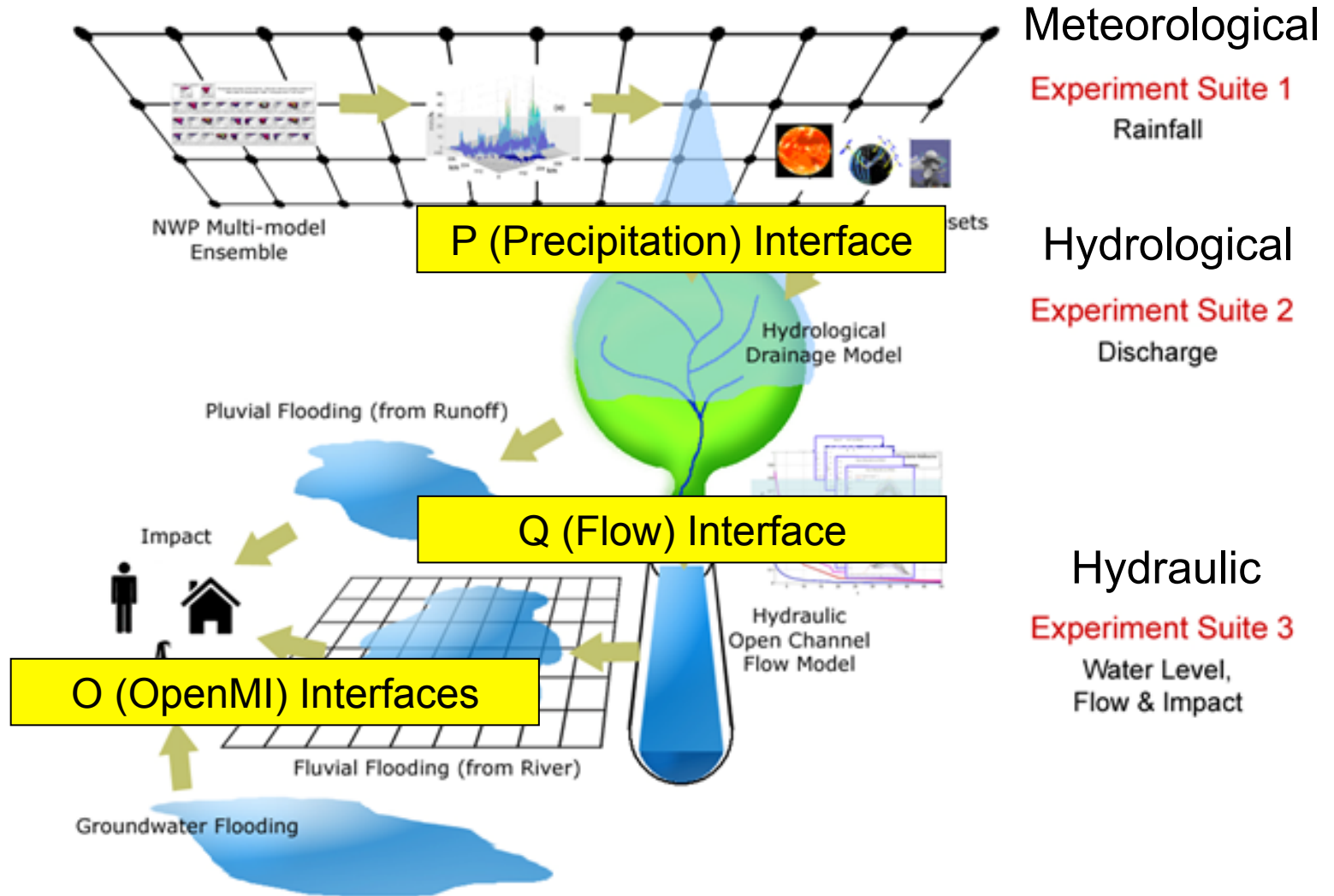
Agenda

- 9:00 – 9:05 Welcome and Introduction
- 9:05 – 9:20 Hydroshare Demonstration
- 9:20 – 9:35 FluidEarth Demonstration
- 9:35 – 9:40 DRIHM MAP
- 9:40 – 10:20 Discussion





DRIHM Use Case





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Demonstrations



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DRIHM MAP

M – Metadata, Documentation and Licence

- 🌀 How close are we to a metadata standard for describing numerical models? Do we need one?
- 🌀 How interoperable are current model catalogues?
- 🌀 Should catalogues of models sit alongside catalogues of supporting datasets?
- 🌀 Should we consider adopting a standard way of documenting models and supporting datasets?
- 🌀 There are good, standard open source licences (LGPL, New BSD), what about commercial licences?





DRIHM MAP

A – Adaptors (or Transforms or Bridges)

- 🌀 Are we close to agreeing a set of standards for file-based model outputs? What file standards exist?
- 🌀 Are we close to agreeing a set of standards for memory-based model outputs?
- 🌀 What must adaptors do? (spatial interpolation? temporal interpolation? unit transformations?)
- 🌀 Is there a case for a unified controlled vocabulary for environmental phenomena? If not then what?





DRIHM MAP

P – Portability (of technical components)

- 🌀 Are pathways to getting models working on different infrastructures similar?
- 🌀 How future-proof is a portable component?
- 🌀 Do we need a ‘portability’ standard?





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Discussion

DRIHM (www.drihm.eu),
DRIHM2US (www.drihm2us.eu)
SCIHM (scihm.org)

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