

DEVELOPMENT OF FLOOD STANDARDS:

METEOROLOGICAL/HYDROLOGICAL STANDARDS DISCUSSION

Florida Commission on Hurricane Loss Projection
Methodology

Date: 12/16/2014

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Chair, Flood Standards Development Committee

Discussion of General Flood Standards

Minor Issues to Resolve:

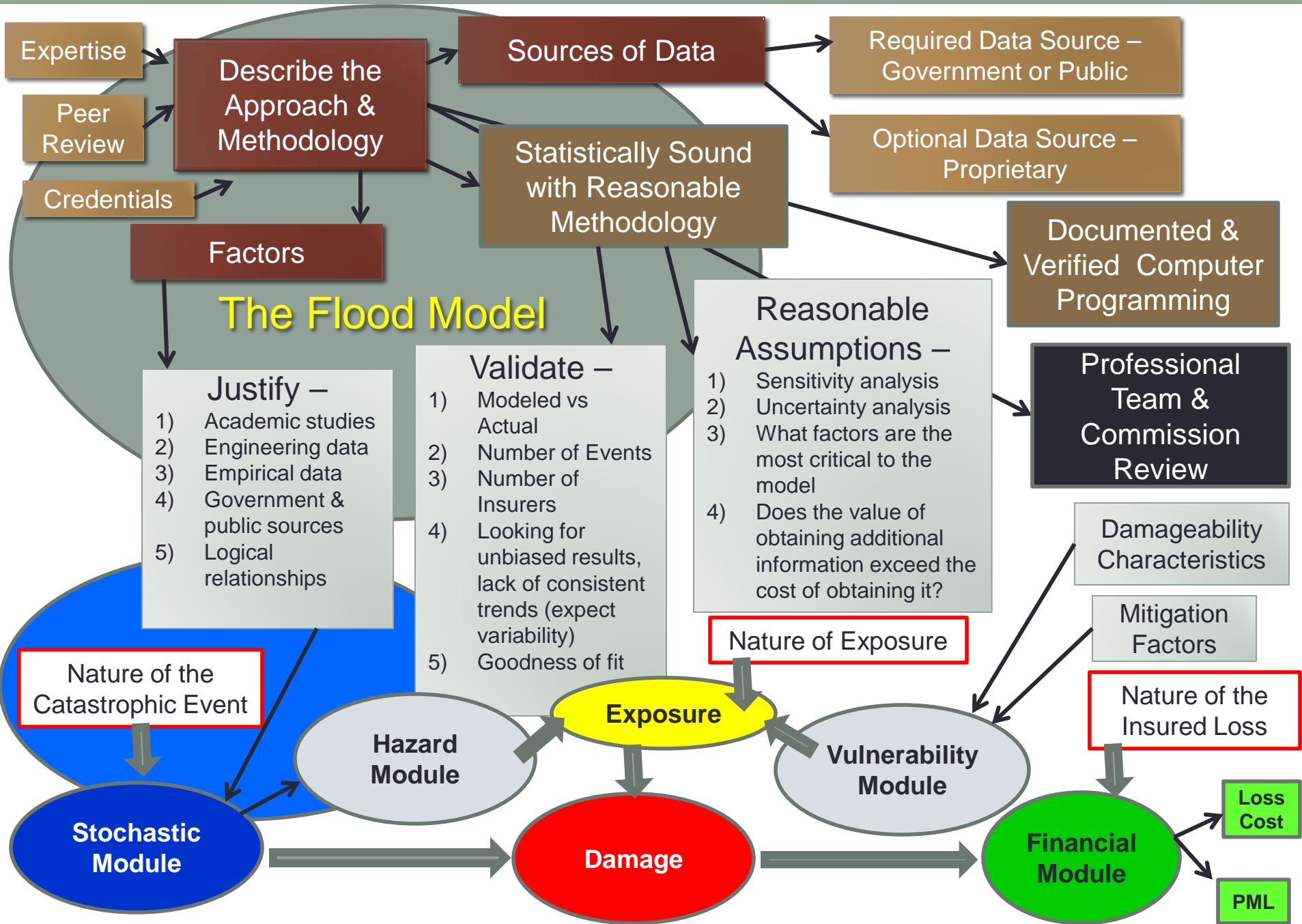
- **GF-1, Purpose** – 2nd paragraph, edits (Pro Team, suggestion)
- **GF-2, Standard** – B., one structural engineer and re-ordered language, (Jack Nicholson & Pro Team) therefore relevant form, Form GF-1, changes
- **GF-2, Disclosures** – minor edit changes, 1.B., 1.C., 3.A., 4, 8, 9 (deleted), 10 (re-numbered), 11 (re-numbered)
- **GF-2, Audit** – 1 (Pro Team, edit suggestion), 2 (Jack Nicholson, technical edit)
- **GF-5, Form GF-4** – (Jack Nicholson, technical, one form for structural engineer)

Discussion of General Flood Standards (con't):

Other Issues to Resolve (no language suggested):

- Issues of hurricane model and storm surge -- suggest that the Commission address this issue with the hurricane standards since work has started in that direction and all models have hurricane storm surge models for the purpose of eliminating flood from hurricane wind damage.
- Language will be recommended during the review of the hurricane model standards.

Discussion of Meteorological/Hydrological Flood Standards



The Catastrophe Flood Model Review & Evaluation

General Standards

Purpose, Disclosures, Audit, Forms

Meteorological/Hydrological Standards

Purpose, Disclosures, Audit, Forms

Vulnerability Standards

Purpose, Disclosures, Audit, Forms

Actuarial Standards

Purpose, Disclosures, Audit, Forms

Statistical Standards

Purpose, Disclosures, Audit, Forms

Computer Standards

Purpose, Disclosures, Audit, Forms

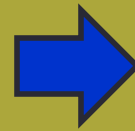
Professional Team

Commission

On Site Reviews

Closed Meetings

Public Meetings



Discussion of Meteorological/Hydrological Flood Standards:

- Standards to address the nature of the peril (flood) to be modeled.
 - **Sources of data meteorological, hydrological, and other**
 - **Parameters & characteristics for the flood model**
 - **Historical probability and severity of flooding**
 - **Flood profile (area, depth, footprint/shape, duration, etc.)**
 - **Mitigation and flood prevention measures**
 - **Failure of mitigation and flood prevention measures**
 - **Logical relationships of flood characteristics**

Meteorological/Hydrological Flood Standards (MHF)

- **MHF-1** Flood Event Data Sources
- **MHF-2** Flood Parameters and Characteristics
- **MHF-3** Flood Probabilities
- **MHF-4** Flood Profile Structure
- **MHF-5** Modeling of Natural and Man-Made Flood Mitigation and Prevention Measures
- **MHF-6** Modeling of the Failure of Flood Mitigation or Prevention Measures
- **MHF-7** Logical Relationships of Flood Characteristics

Several Issues:

- The Commission has to be sensitive to the “availability of data.”
- The Commission’s flood standards should not be “prescriptive” unless and until more is known about the flood modeling process.
- Should change language to avoid being prescriptive too early in the process. Prescriptive language may need to evolve over time if it is necessary at all.
- Change certain terminology: 1) “floodplain flooding” will be changed to “fluvial flooding,” 2) “non-floodplain flooding” will be changed to “pluvial flooding,” and 3) the term “flood profile” will be changed to “flood footprint.”

Several Issues (con't):

- Recommend to accept various suggested changes and bring a “clean” document forward for the January meeting. Believe this approach will be easier for everyone to work with.
- We'll make changes and have the “clean” document on the Commission's website very quickly so that everyone will have access to it and can make further suggestions based on “the revised draft” as opposed to the most recent posted draft which will be changing significantly.
- At the January meeting, we'll then proceed with editing the “new and revised” document.

Any Other Discussion or Comments