

The Technical Mapping Advisory Council (TMAC)

Presented to National Association of Environmental Professionals

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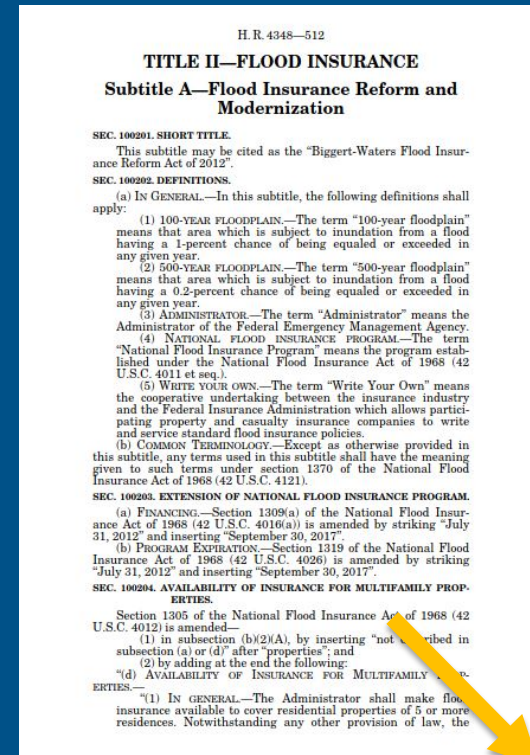
Presentation Agenda

- TMAC – When and Why?
- Who is on TMAC?
- Summary of Reports and Recommendations
- Current Efforts
- We want to hear from you



When and Why?

- TMAC was formed as part of the 2012 “Biggest Waters Flood Insurance Reform Act” – Section 100215
- Signed into Law Jul 6, 2012
- Duties include recommending to FEMA Administrator:
 - Mapping improvements
 - Performance metrics
 - Standards and Guidelines
 - Delegation Procedures
 - Interagency Coordination
 - Funding Strategies
 - Providing Annual Reports
- Special Reports
 - Future Conditions
 - Program Review



SEC. 100215. TECHNICAL MAPPING ADVISORY COUNCIL.

(a) **ESTABLISHMENT.**—There is established a council to be known as the Technical Mapping Advisory Council (in this section referred to as the “Council”).

(b) **MEMBERSHIP.**—

(1) **IN GENERAL.**—The Council shall consist of—

(A) the Administrator (or the designee thereof);

(B) the Secretary of the Interior (or the designee thereof);

(C) the Secretary of Agriculture (or the designee thereof);

(D) the Under Secretary of Commerce for Oceans and Atmosphere (or the designee thereof); and

(E) 16 additional members appointed by the Administrator or the designee of the Administrator, who shall be—

(i) a member of a recognized professional surveying association or organization;

(ii) a member of a recognized professional mapping association or organization;

(iii) a member of a recognized professional engineering association or organization;

(iv) a member of a recognized professional association or organization representing flood hazard determination firms;

(v) a representative of the United States Geological Survey;

Who?

- Federal Agencies (6)
 - FEMA
 - NOAA
 - Agriculture
 - USGS
 - DOI
 - USACE
- State/Local (7)
 - GIS
 - NFIP Coordinator
 - CTPs (2 state/2 local)
 - Hazard Mitigation Officer
- Associations/Organizations (7)
 - Surveying
 - Flood and Stormwater Management
 - Mapping
 - Engineering
 - Map Determination Industry
 - Floodplain Management
 - Risk Management



State/Local
Representatives



Associations/Organizations




Timeline of Publications

Year	2015				2016		2017	2018		2019	2020	
Report Title	<i>TMAC 2015 Future Conditions Risk Assessment and Modeling Report - Interim</i>	<i>TMAC 2015 Annual Report - Interim</i>	TMAC 2015 Annual Report	TMAC 2015 Future Conditions Risk Assessment and Modeling Report	<i>TMAC 2015 Annual Report Summary</i>	TMAC 2016 National Flood Mapping Program Review	<i>TMAC 2016 Annual Report</i>	<i>TMAC 2017 Annual Report</i>	<i>TMAC 2018 Annual Report Summary</i>	<i>TMAC 2018 Annual Report</i>	TMAC 2019 Annual Report	<i>TMAC 2020 Annual Report</i>
Report Type	Interim	Interim	Final	Final	Summary	Final	Final	Final	Summary	Final	Memo	Final
Publication Date	10/30/2015	11/25/2015	2/2/2016	2/8/2016	2/8/2016	9/22/2016	4/21/2017	3/14/2018	9/13/2018	12/5/2019	4/21/2020	7/6/2021

Key	# Recs
<i>Interim or Summary Report (4)</i>	-
Annual Reports (5)	67
Special Report (2+1)	65

132

Administrative Pause
No Quorum



Summary of Recommendations

Number of Recommendations

Topic	2015 - Annual Report	2015 - Future Conditions	2016 - Annual Report	2016 - Program Review Report	2017 - Annual Report	2020 - Annual Report	Grand Total
Erosion	1	3		1	2		7
Future Conditions	1	16		1	2	1	21
Binary to Graduated	2		7		4	1	14
Project Planning	2		1	1			4
Grand Total	6	19	8	3	8	2	46

- Binary to Graduated (14)
 - Assess risks and exposure at a structure specific scale
 - Work with stakeholders to identify needs and develop and test prototype products
 - More effectively communicate risk and hazards
- Future Conditions (21)
 - Engage stakeholders and test multiple approaches for meeting user needs when mapping future conditions
 - Develop a set of integrated floodplain management- and mitigation-focused prototype products and services that help stakeholders manage current and future flood risks.
 - Develop guidance for future conditions storm surge and wave modeling
 - Incorporate local Relative Sea Level Rise scenarios into the existing FEMA coastal flood insurance study process
- Erosion (7)
 - Develop prototype products, update existing methods, and develop new methods for mapping event driven and long-term coastal erosion areas
 - Consider scenario approaches
 - Any erosion products developed should be advisory (non-regulatory)
- Project Planning (4)
 - Develop a 5-year plan
 - Work with stakeholders on what factors to use for prioritizing studies
 - Shorten the study timeline

Current Tasking – Give us your input!

- Explore how Enterprise Risk Management concepts might be applied to managing flood risk
 - In meeting community goals
 - FEMA strategic planning elements
 - Provide examples
- Review 2015 Future Conditions Report recommendations
 - Which still apply given a move from binary to graduated risk
 - Identify additional recommendations
- Continue to engage stakeholders in formulating recommendations
<https://www.surveymonkey.com/r/TMAC2021>