

Update of Maryland's DFIRM Products

Maryland Association of Floodplain and Stormwater Managers

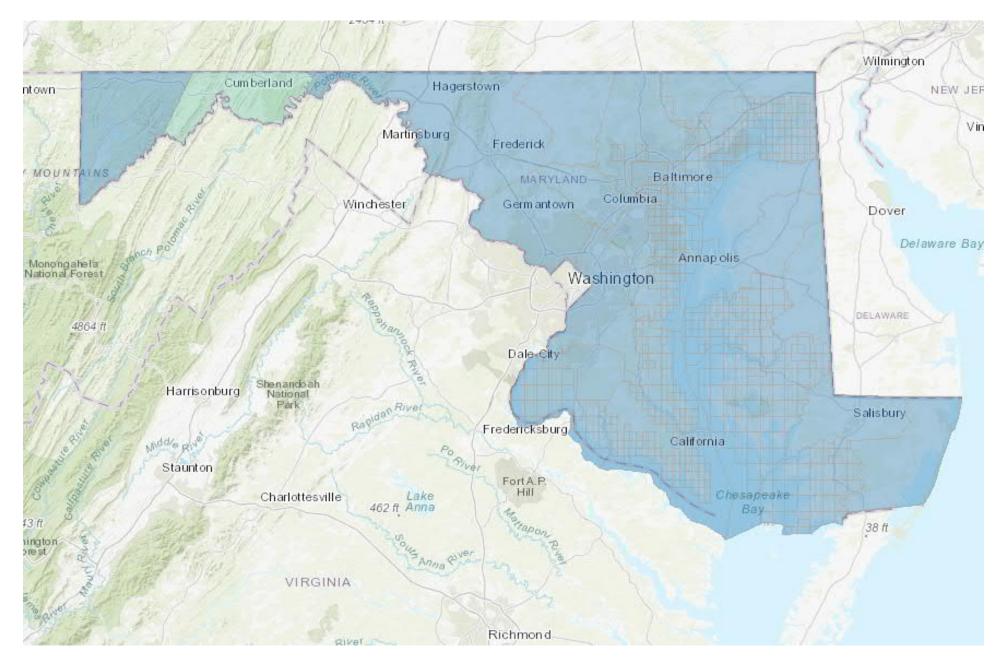
Dave Guignet, State NFIP Coordinator

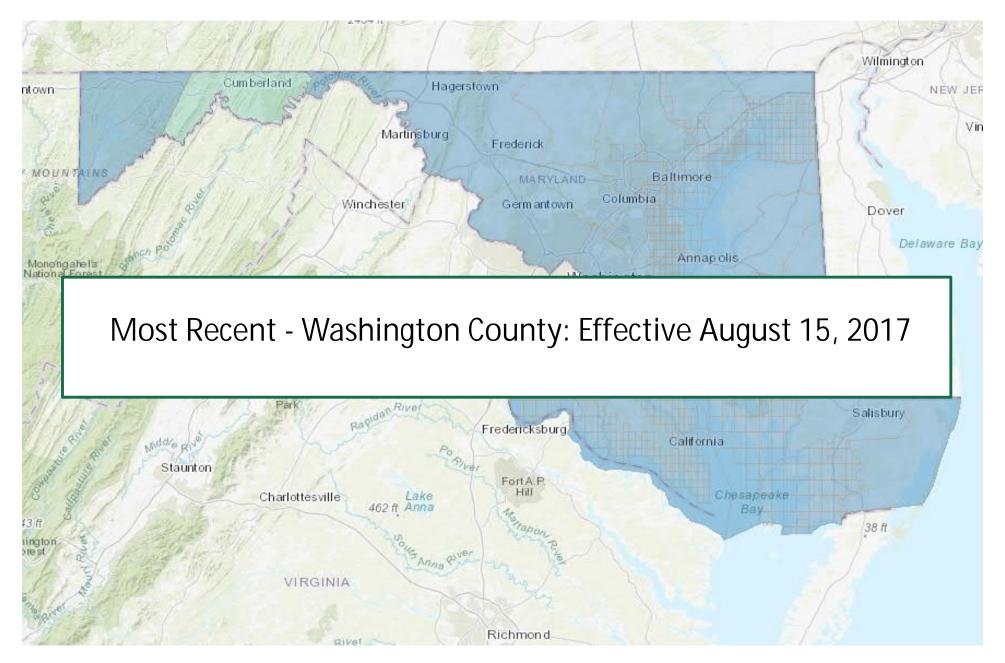
Maritime Institute October 12, 2017

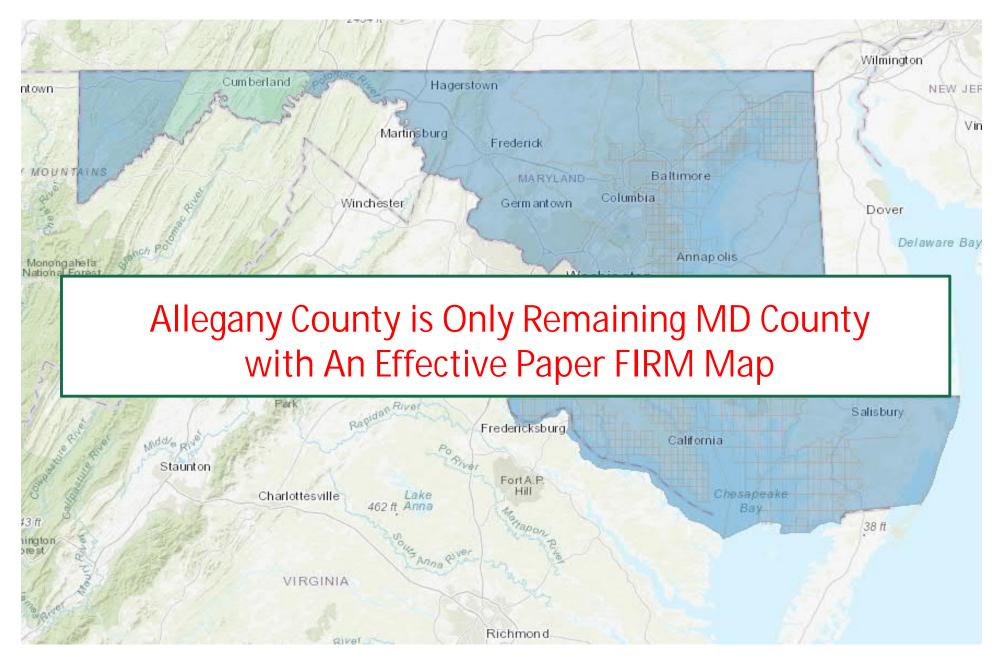
Agenda

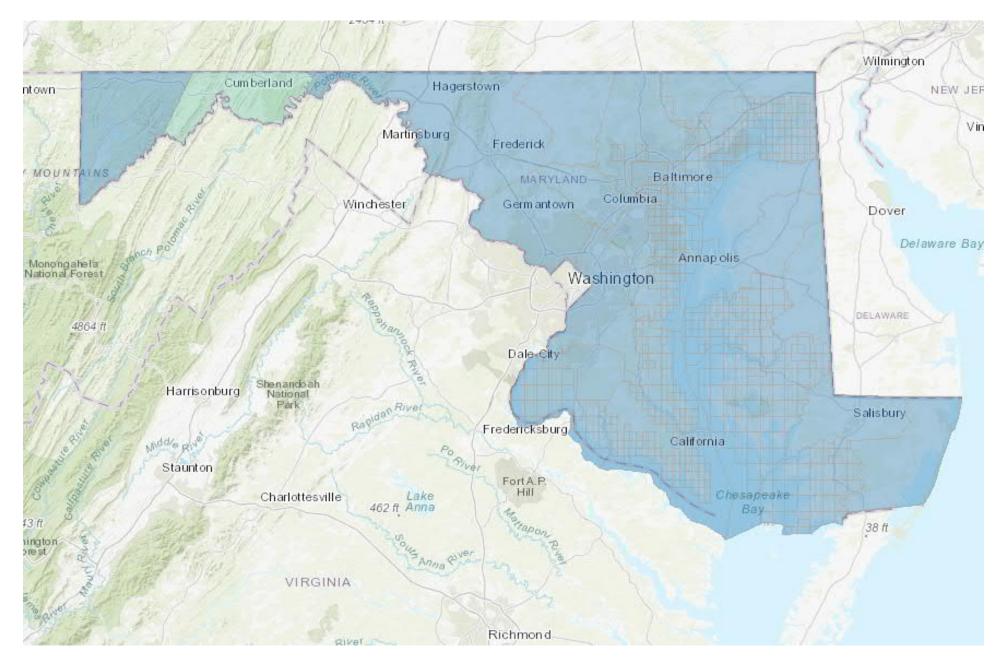
- Status of Maryland DFIRM Mapping Effort
- Projects Underway
- Benefits to date
- Caution on Restoration Projects
- Next Steps
- Open Discussion

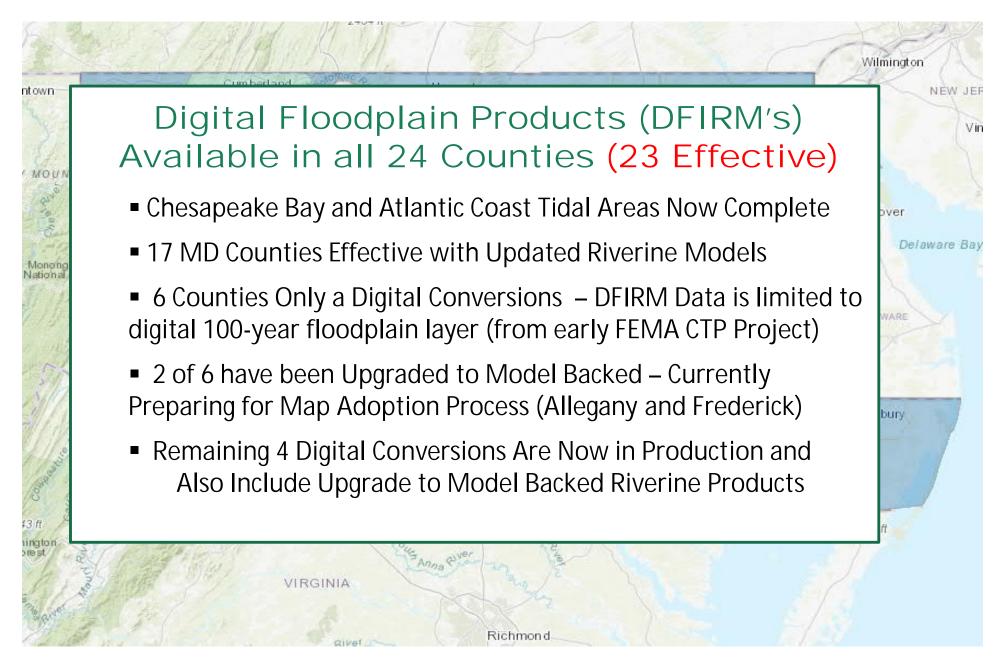


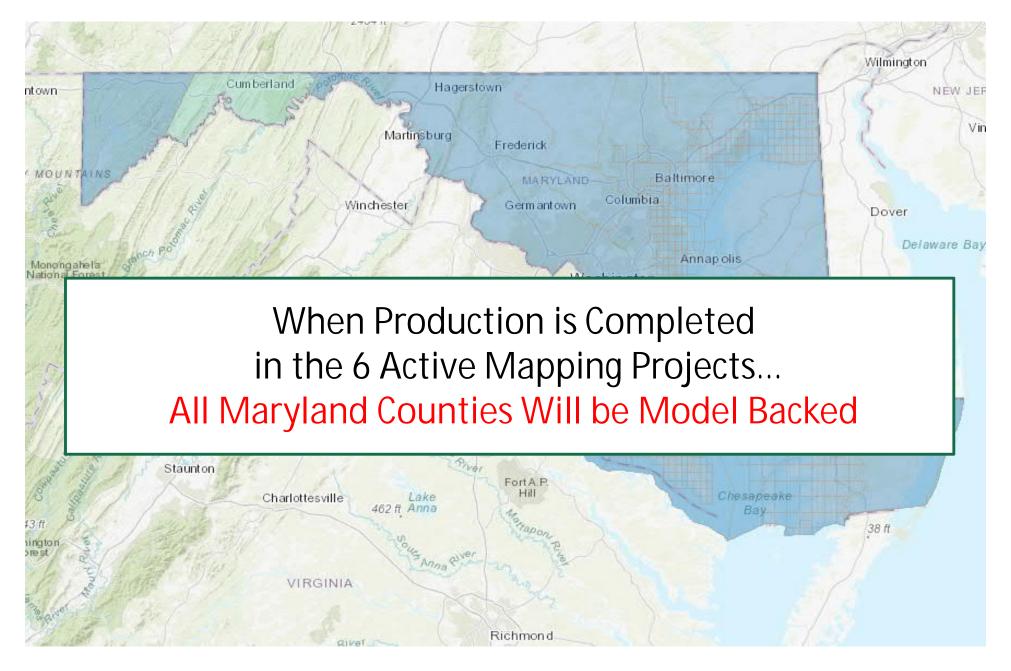












Recent Updates:

- Washington County:
 - Effective August 2017
- Allegany County:
 - LFD Scheduled for February 2018
 - Effective Scheduled for August 2018
- Frederick County by U.S. Army Corps of Engineers – Baltimore District (Using State Process)

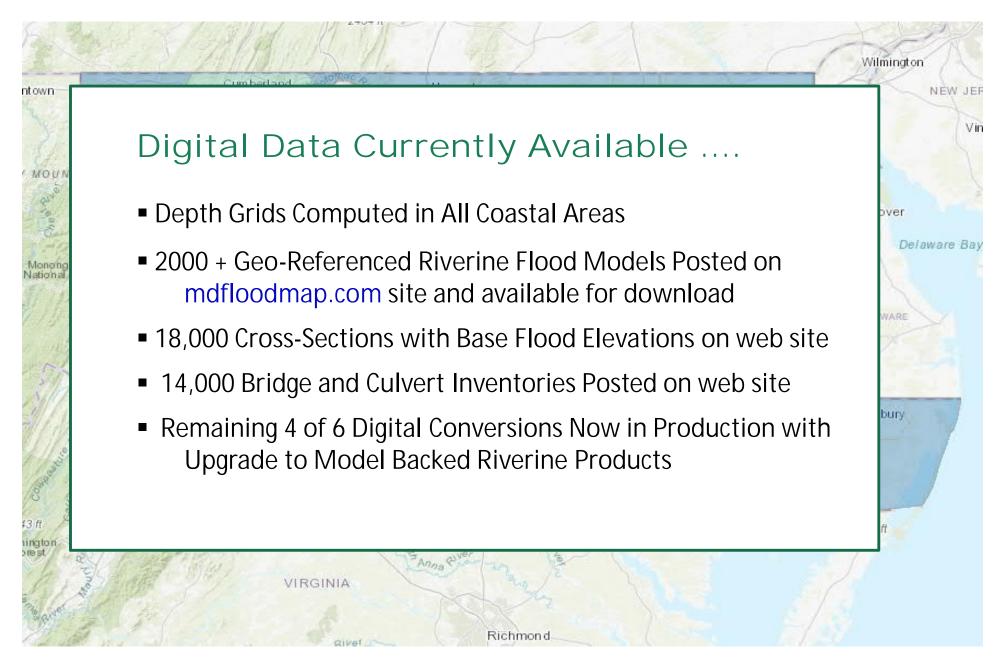
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Scheduled for Preliminary in 2018

Production Schedule

- Baltimore City by MDE (Using State Model Backed Process) Scheduled for Preliminary Summer 2018
- Baltimore County by MDE and County as CTP (Using State Process) Scheduled for Preliminary Summer 2018
- Montgomery County by MDE as CTP (Using State Process) Targeted for Preliminary Fall 2018
- Saint Mary's County (Riverine Product Update Using State Process) Partially funded – Planning Underway (Next Step – Bridges and Culverts)





Benefits to Date

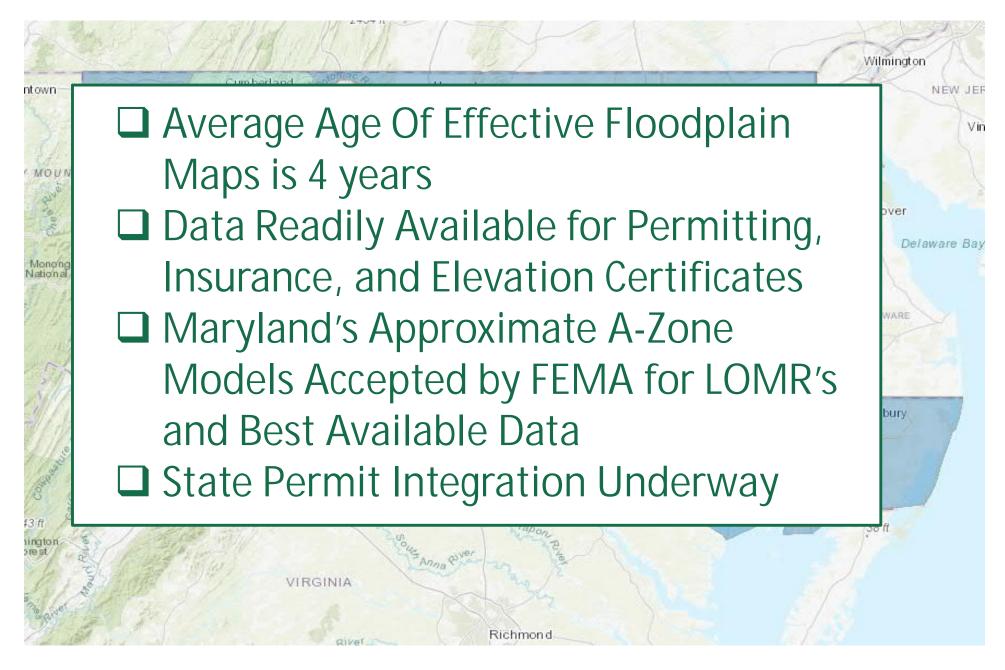
- Over 200,000 web hits (getting best available data and BFE's to evaluate Risk and Insurance)
- Model Downloads Readily Available for Integration Into Permit process
- IMAP Template Compatibility with other State Data Sets – Generated Resiliency Discussions and Collaboration.

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Others

"Maryland's 2006 Business Plan"

- "In Maryland <u>the average age of our</u> <u>floodplain maps is 18 years.</u>" (And the data used to produce those maps at 25 + years)
- Fast forward to 2017 If we had chosen digital conversions...The average age of the study and models would now be approaching 30 years!
- Current Mapping in Maryland Average age is under 4 years! (Also includes a Significant Upgrade in Floodplain Regulations – with Many Higher Standards!)



Caution on Stream Restoration Projects

- Communities that Participate in the NFIP Program Agree to Maintain Records of All Activities / Development within their floodplain
- That means Permitting All New Construction for Buildings AND...
- Notifying FEMA of Changes in their floodplain – Including Submitting LOMR for Stream Restoration Projects

Caution on Stream Restoration Projects

- Communities in Maryland Now Have Accurate Digital Record of Where Their Floodplains Are
- Communities have Models of their Floodplain Studies
- Communities MUST Notify FEMA of ALL Changes within the Floodplain.
- Stream Restoration Projects Typically Impact Floodplain Boundaries and Elevations

Maryland

Protecting \$ 14.5 Billion in Flood Coverage !

Upon Completion ...

- Model Backed Riverine Analysis Available via Download in 23 of 24 Counties
- Data is Available in 24th County but need to contact County Directly (for now)
- Working on a Process to Exchange Data (for Models) and Collaborate Review Process for Floodplain Studies between State Agencies Using Effective FEMA Models. (Goal is to Maintain Updated Flood Studies in State Permit Review Process / Roll into Local and FEMA Approvals)

Next Steps

- 2 foot and 3 foot freeboard layers (definite)
- Converting Site layer to Match NFHDL layer (still wrestling with text and formatting)
- Extracting Velocity Data from Models to Generate Stream Stability Indexes
- Rainfall / Floodplain Map Updates on the fly (Why Not – looking for A Process) / Experimental Pilot This Year

Next Steps ...

- 3D Viewer
- Building Footprints Where Available
- Elevation Certificates
- Others! (Suggestions / Ideas?)



Comments / Questions

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