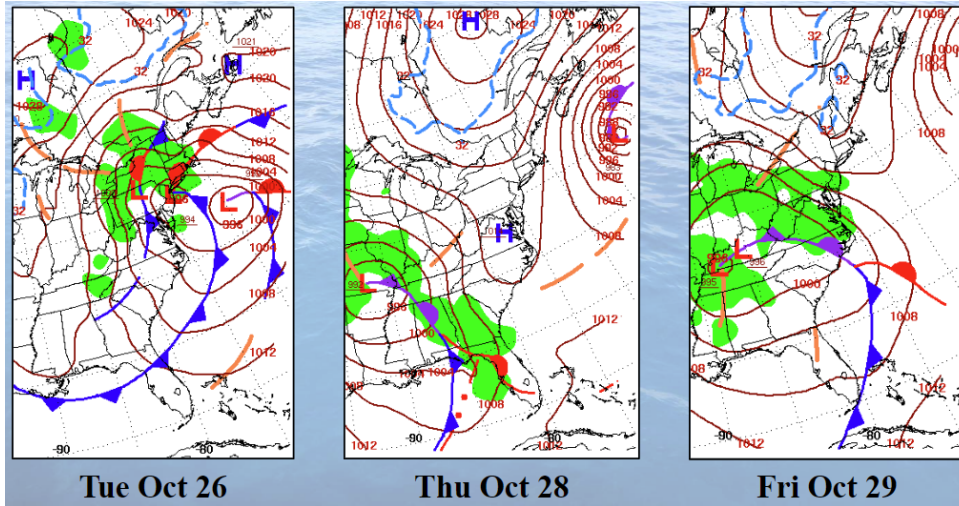


Event Synopsis

October 29-30, 2021 provided the region with a historic coastal flood event, with records broken that had stood since Hurricane Isabel back in 2003. Being that this wasn't even a tropical event made it all the more impressive. The setup was a very strong upper low that was positioned over the Ohio Valley, with a broad occluded surface low slowly moving from the Mississippi River Valley towards our region. Long duration and long fetch onshore flow into the Chesapeake Bay played a pivotal role in the level of impacts seen from this event.



Screenshot of surface analyses from Tuesday, Oct 26, 2021 & Thursday and Friday, Oct 28-29, 2021.

Below are a list of record crests at coastal flooding sites across the forecast area. Many of which broke records that had previously stood since Hurricane Isabel.

Coastal Flood Records Broken

October 29-30, 2021

SITE	PEAK STAGE	RECORD
DC/SW Waterfront	Major - 7.12' 3:24 PM 10/29	
DC/Georgetown	Moderate - 8.19' 3:24 PM 10/29	
Alexandria Dock	Moderate - 5.99' 3:24 PM 10/29	3rd Highest
Dahlgren	Moderate 5.64' 11:12 AM 10/29	Record Highest
Straits Point	Moderate 4.90' 10:00 PM 10/29	Record Highest
Solomons Island	Moderate 4.82' 10:00 PM 10/29	Record Highest
Annapolis	Moderate 4.90' 11:42 PM 10/29	4th Highest
Baltimore	Minor 4.92' 1:30 AM 10/30	
Havre de Grace	Moderate 5.59' 3:24 AM 10/30	3rd Highest
Chesapeake City	Minor 5.63' 8:48 PM 10/29	

*** All sites use MLLW except the Alexandria Dock, which uses NADV2
 *** The period of record varies from two to eight decades

Below are some images of the resulting impacts across our region from this event.



DC Tidal Basin near Jefferson Memorial



Images from the Wharf along the DC Waterfront via WTOP News



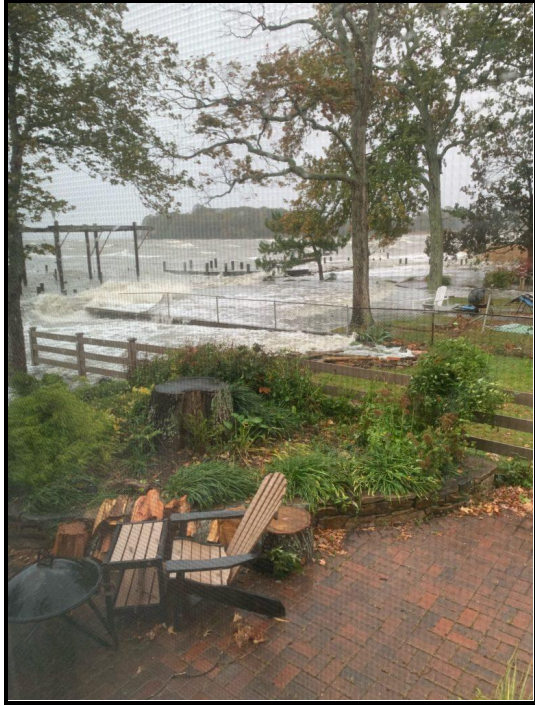
Image from Alexandria, VA via Alexandria Police.



Images from Bowleys Quarters (Left) and Thomas St. in Baltimore, MD (Right), both provided by the Baltimore Sun Newspaper.



Images from downtown Annapolis via Washington Post (Left) and MD Dept. of Natural Resources (Right)



Images from Shady Side, MD via MD Dept. of Natural Resources



Image from Solomons Island, MD via MD Dept. of Natural Resources