



Foreground: 5 years of water levels at NOAA's Sewells Point sensor; 📍 denotes SLR App mapping events

Background: Drone video captured by Drs. Thomas Alberts and Tom Allen, Old Dominion University

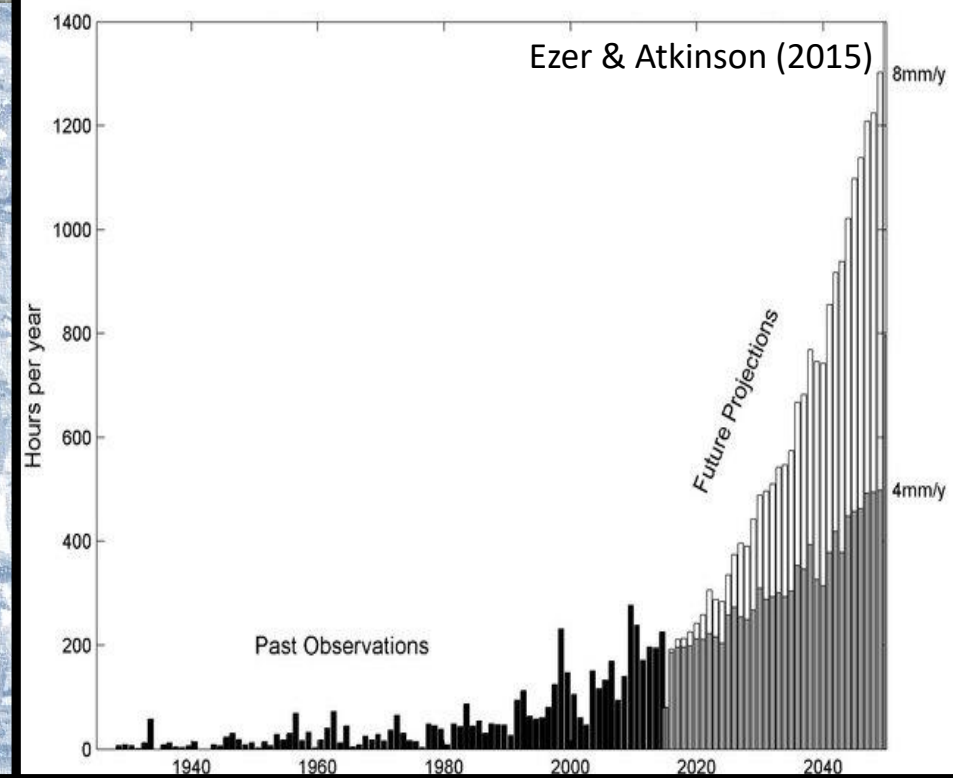
Outline

1. Thank You!

- A. Volunteers, Teachers, and Tide Captains
- B. To Our Enthusiastic Media Partners
- C. School Groups and Student Projects
- D. Modeling Researchers
- E. To the App Developers

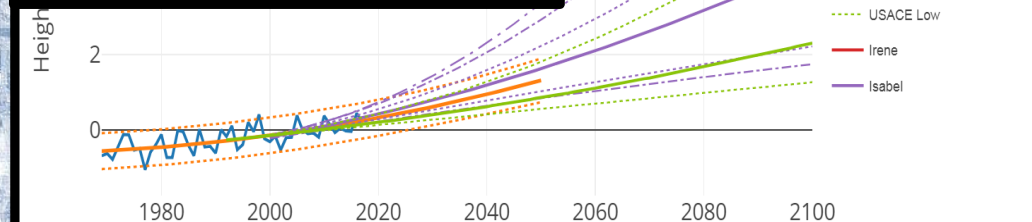
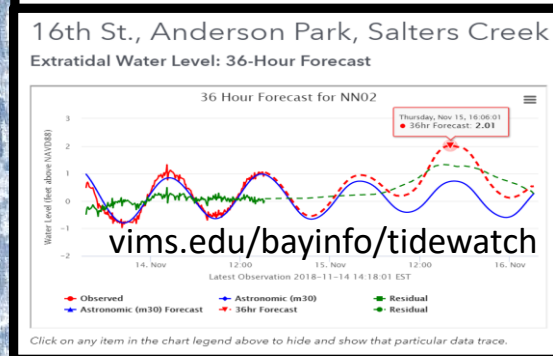
2. Data Review

- A. App Data and Model Comparison
- B. What We Learned
- C. Conclusions



Norfolk, VA (Sewells Point)

AdaptVA.org



Catch the King Tide 2018



Thank You & Review

1. Thank You To:

A. Our Volunteers


- B. Media Partners
- C. School Groups
- D. Flood Modelers
- E. App Developers

2. Review of:

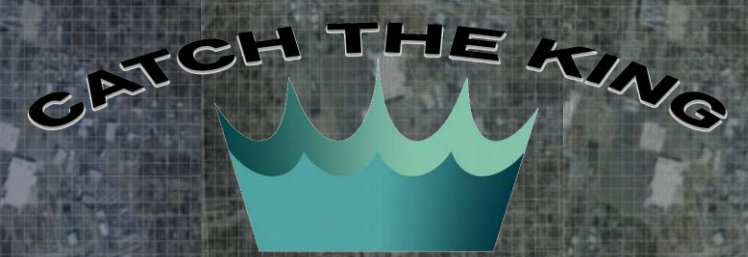
- A. App Data
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Thanks to Our Many Volunteers:

- We were able to validate and improve flood prediction models
- 42 unique volunteer training events around Hampton Roads resulted in:
 - 347 people on Sat., Oct. 27 caught 33,847 GPS max. flood extents & 1,126 chrono-geotagged pictures
 - 141 people on Fri. Oct. 26 caught 3,881 GPS max. flood extents & 136 chrono-geotagged pictures

|  Catch the King 10/27/2018 Rank By # of Volunteers | | | |
|--|---------------------------|------------|------------|
| Final Statistics based upon Participation by Locality via the Sea Level Rise App (as of 11/01/2018) | | | |
| # | Final Stats for 10/27 | GPS Points | Volunteers |
| 1 | Norfolk | 13078 | 121 |
| 2 | VA Beach | 8893 | 79 |
| 3 | Hampton | 2959 | 30 |
| 4 | Gloucester / Mathews | 2101 | 24 |
| 5 | York / Poquoson | 2428 | 21 |
| 6 | Chesapeake | 1241 | 20 |
| 7 | James City / Williamsburg | 1914 | 16 |
| 8 | Newport News | 531 | 12 |
| 9 | Portsmouth | 306 | 11 |
| 10 | Outside HR | 265 | 9 |
| 11 | Suffolk | 131 | 4 |
| TOTAL | | 33847 | 347 |
| Background Drone Imagery of Norfolk's Hague on Oct. 27, 2018 courtesy of Dr. Thomas Alberts, ODU | | | |

Thanks to Our Volunteers



Thank You & Review

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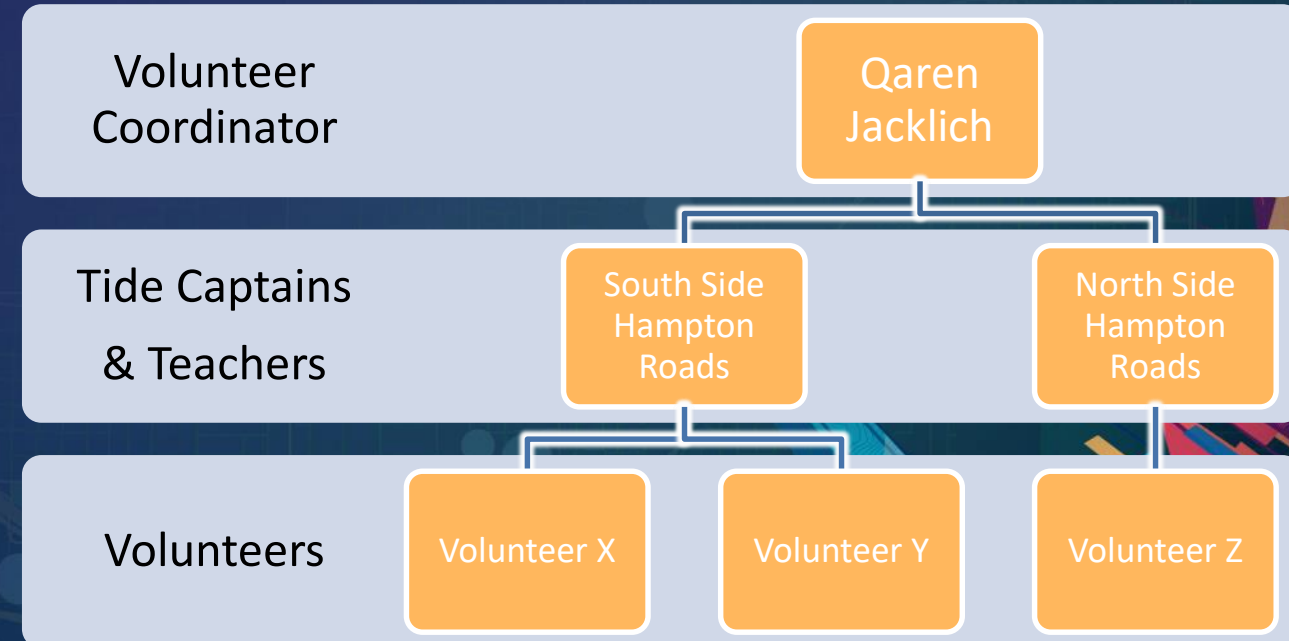
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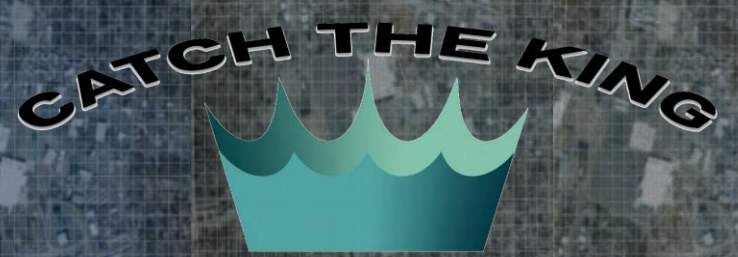


Thanks to You and Your Perseverance!

The sheer number of volunteers involved in this effort made organization tough:



Thanks to Our Volunteers



Thank You & Review

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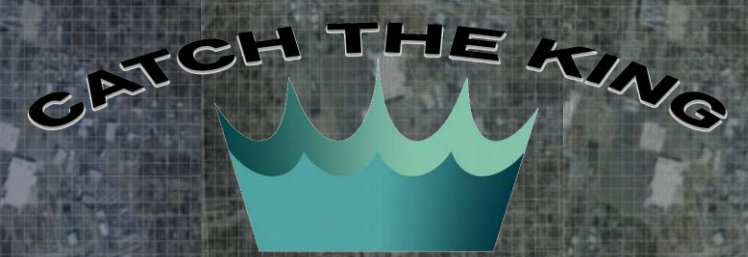
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A Big Thanks to This Year's Adept Tide Captains!

| Date Registered | Name | Region | Area of Interest | Preferred Location | Role |
|--------------------|-------------------------------|-------------------------|---------------------------------------|--|----------------------|
| 8/23/2017 11:22:49 | Dell young/West Shore Drivers | Virginia Beach | VB/Baylake | Baylake beach, between learner's bridge | Tide Captain |
| 7/10/2018 13:07 | Edgardo "Pete" Abreu | Virginia Beach | VB/Windsor Woods & Lynnhaven | No preference | Tide Captain |
| 7/10/2018 14:52 | Lynn Gilbert | Chesapeake | Chesapeake/Indian River | Indian River/ Ashburn Point | Tide Captain |
| 7/11/2018 10:28 | Patrick McGrath | Gloucester | Gloucester | Naxera | Tide Captain |
| 7/11/2018 12:33 | Diane Peters | Chesapeake | Chesapeake/Bells Mill and Camp Young | Riverwalk/ Fernwood Farms, but will go v | Tide Captain |
| 7/17/2018 9:52 | Karen Duhring | Gloucester | Gloucester | no preference | Tide Captain |
| 7/17/2018 10:15 | mike overstreet | Virginia Beach | VB/Thalia | Thalia | Tide Captain |
| 7/19/2018 11:32 | Monica Ward | Virginia Beach | VB/Rudee Inlet | No Preference | Tide Captain |
| 7/22/2018 15:18 | Peter Johnston | Norfolk | Norfolk/Downtown-HarborPark | | Tide Captain |
| 7/27/2018 11:03 | Dana Perry | Newport News | NN/Riverview Farm Park/Hilton Village | Riverview Farm Park | King Tide Captain |
| 7/27/2018 11:10 | Garry Harris | Portsmouth | Portsmouth | | King Tide Captain |
| 7/27/2018 12:31 | Karen Cifranick | Norfolk | Norfolk/Ocean View | Bayview | King Tide Captain |
| 8/1/2018 10:54 | Cheryl Loughran | Chesapeake | Chesapeake/Great Bridge | | King Tide Captain |
| 8/1/2018 13:01 | Jamie | Hampton | Hampton/Grandview | Grandview | King Tide Captain |
| 8/1/2018 17:34 | Lisa T Nickel | Williamsburg/James City | Williamsburg/James River | | King Tide Captain |
| 8/2/2018 9:45 | Bill Judge | Norfolk | Norfolk/East Ocean View | No preference | King Tide Captain |
| 8/2/2018 14:19 | Lisa White | Matthews | Gloucester | Mathews, Woodas Creek, East River | King Tide Captain |
| 8/2/2018 18:19 | Peter J Dreher | York/Poquoson | York/Poquoson | Williamsburg/ James City County | Teacher/Youth Leader |
| 8/2/2018 18:30 | jean kerry | Virginia Beach | VB/Thalia | | King Tide Captain |
| 8/3/2018 14:18 | Alfonso Macias-Tapia | Norfolk | Norfolk/Downtown-HarborPark | downtonwn Norfolk | King Tide Captain |
| 8/6/2018 19:20 | Betty Baucom | Norfolk | Norfolk/Barraud Park | Lindenwood/Barraud Park | King Tide Captain |
| 8/8/2018 12:31 | Michael D Claya | Norfolk | Norfolk/Ghent | No preference | King Tide Captain |
| 8/8/2018 13:44 | Awilda S. Velez Chambers | Suffolk | Suffolk | Somewhere in Isle of Wight | Teacher/Youth Leader |
| 8/27/2018 20:03 | Sarah McBride | Portsmouth | Portsmouth | Paradise Creek Nature Park | King Tide Captain |
| 9/11/2018 12:48 | Margaret R. Mulholland | Norfolk | MtM | Lafayette River - Measure the Muck | King Tide Captain |
| 9/13/2018 9:47 | Michelle Jackson | Virginia Beach | VB/Broad Bay | Areas around Great Neck Middle School | Teacher/Youth Leader |
| 9/13/2018 16:57 | Jordan Wooley | Norfolk | Norfolk/Ghent | Ghent | Teacher/Youth Leader |

Thanks to Media Partners



Thank You & Review

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Catch the King 2018 Graciously Supported By:

- WHRO Public Media
- The Virginian-Pilot
- Daily Press
- The Commonwealth Center for Recurrent Flooding Resiliency

Sponsored by:

- Hampton Roads Sanitation District
- Batten Environmental Education Initiative



Thanks to Media Partners



Thank You & Review

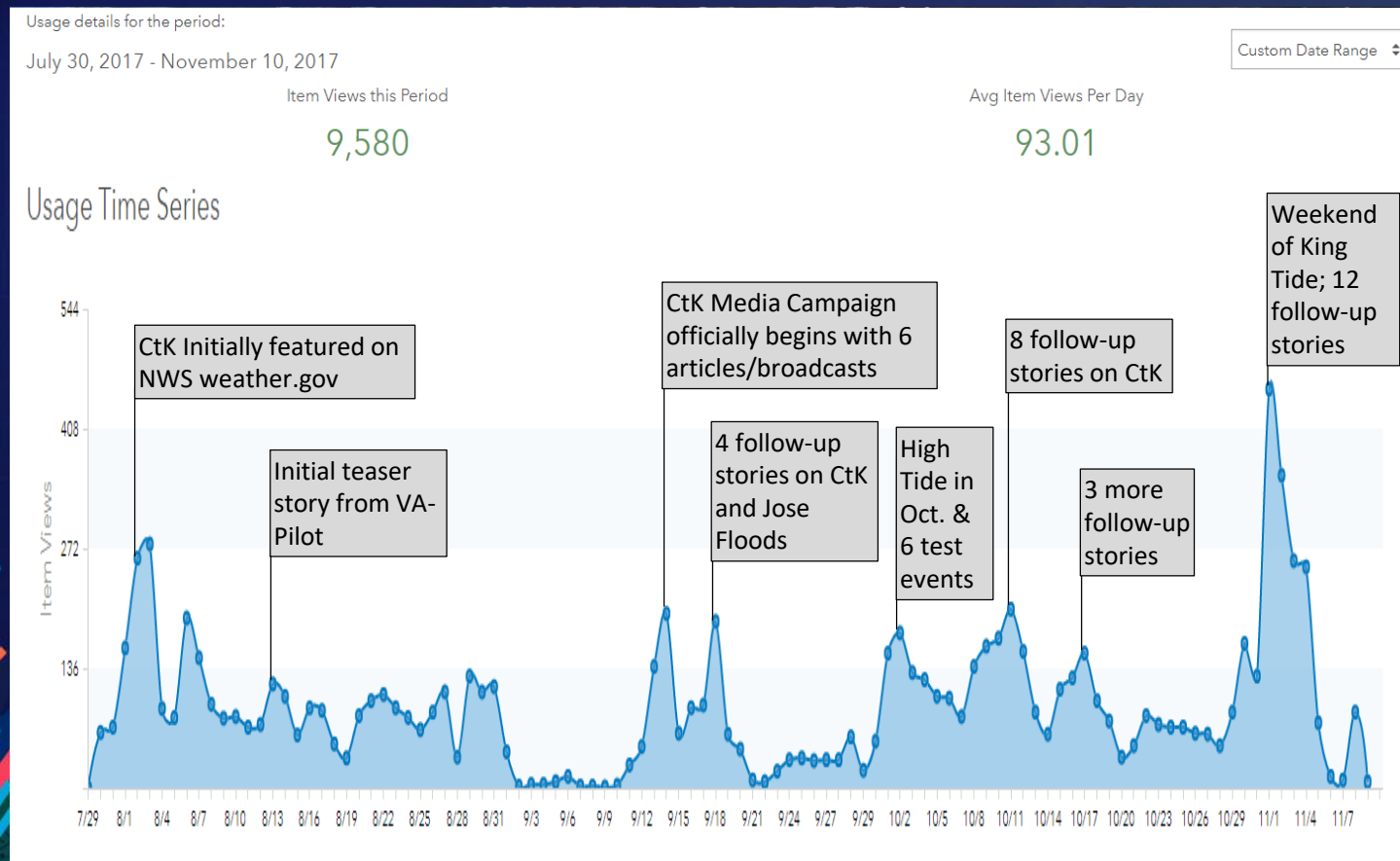
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- Embedded and linked to volunteer recruitment forms, App download, and interactive story map:



Volunteer Recruitment Story Map URL (2018):

http://www.vims.edu/people/loftis_jd/Catch%20the%20King/index.php



Thanks to Participating Schools



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- WHRO helped get >120 elementary, middle, and high schools choose Catch the King as their science class project.

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- The event touches on 6 major SOLs, including physics, geometry, chemistry, and water quality.



Thanks to Olivia and HRA



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Crabbing Hampton's Tidal Flooding

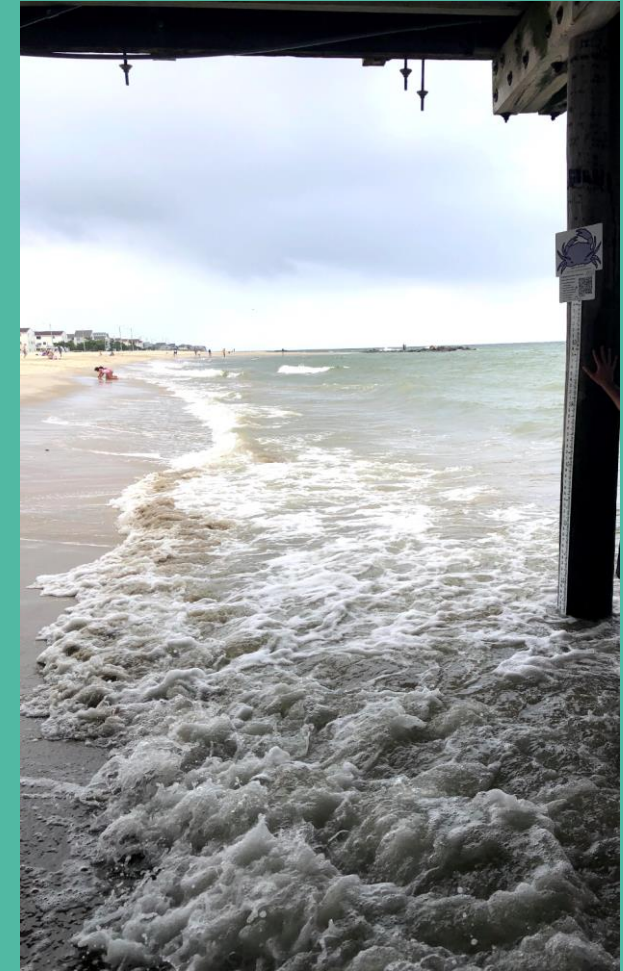
Six flood-monitoring gauges around
Hampton, Virginia installed Fall 2018 by
Olivia Basco



Goals

Accomplish the following within the 650\$ fund

- **Analyze effects of sea level rise in Hampton, Virginia** Look at the global problem primarily caused by polar ice melting, the Gulf Stream, and land subsidence through tidal flooding
- **Raise awareness about increased risks of tidal flooding** Involve citizen-scientists to collect data
- **Develop a three-dimensional flood map of Hampton, Virginia** Collect altitudinal measurements of tidal flooding to add to data outlining horizontal range of tidal flooding



The Gauges

components to each site

Signs



Crabbing Hampton's Tidal Floods

Help us track flooding!

1. Snap a flood photo of this gauge.
2. Scan the QR code above and upload pic
3. Enter the coordinates for this location:

Lat: 37.017374 Long: -76.352396

(or use your phone's location services)



Each gauge is a different crab which is Hampton's mascot.

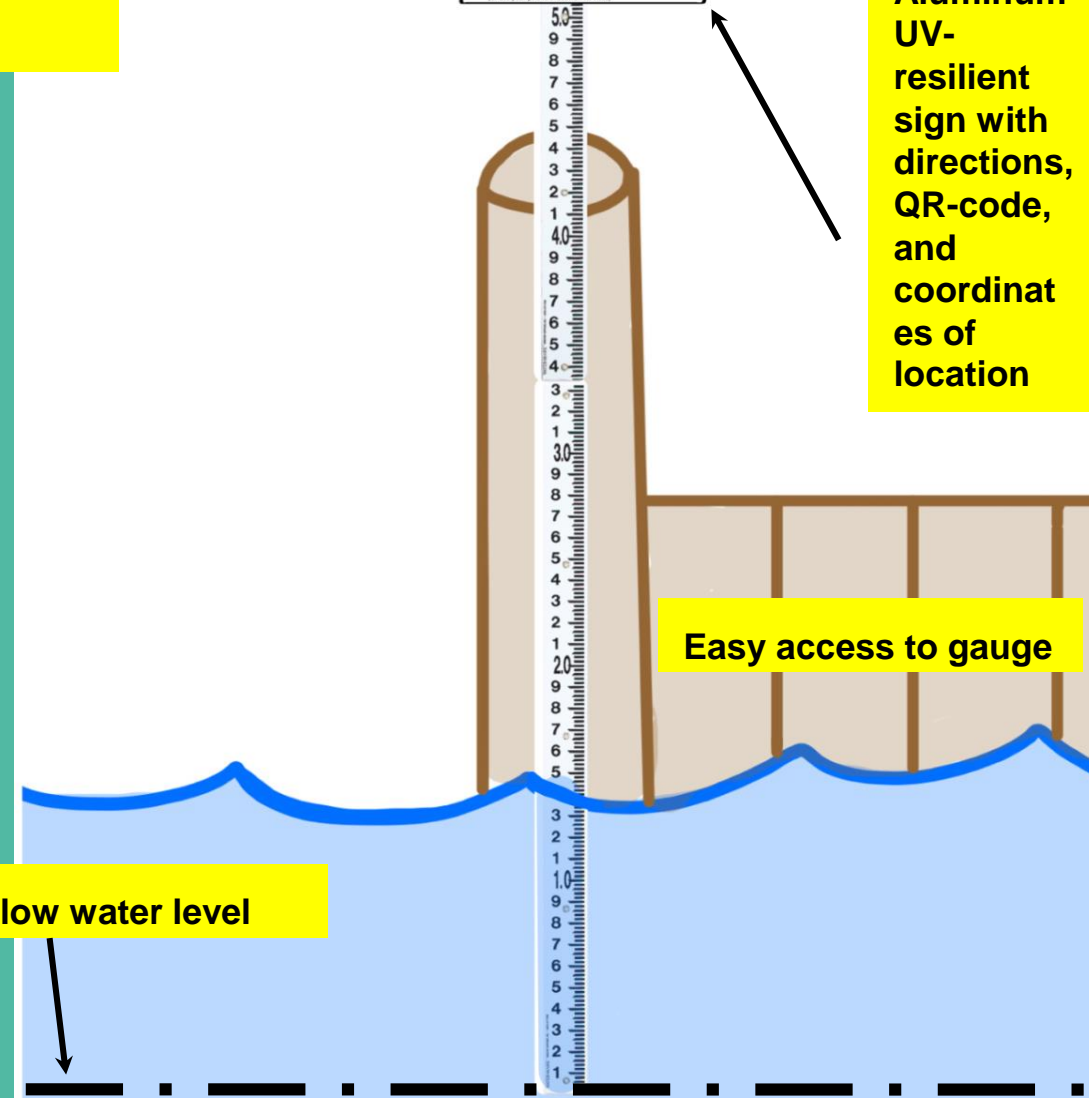
QR-code scannable with any smartphone camera

Aluminum UV-resilient crab sign with website for more information.

Aluminum UV-resilient sign with directions, QR-code, and coordinates of location

Easy access to gauge

Mean lower low water level
(0)



How it works

- 1) Hold smartphone camera up to QR code and follow the link to online form
- 2) Fill out the online form including a photo of the gauge
- 3) Data is compiled overtime in a large database shared with UNC and NOAA

Water Level Reporter

Please enter information below to report water levels in your community. Observations you share will be used to map water levels (flooded, normal, and low) regionally. Your inputs will be used by local, state, and national managers and scientists to learn more about high coastal water levels, their causes, and impacts. More on [photographing water levels](#) and [causes of coastal inundation](#).

1. Enter Information

Date and Time of Photo: (required)
October 24, 2018 2:40 PM
Select the date and time the photograph was taken.

What is affected by the water? (if any) (required)
Select...
If water levels are elevated, identify the primary structure or area affected by the water, if any. If nothing is affected, select 'nothing'.

Cause of observed water level?
Select...
Describe what you suspect to be the cause of the observed water level in your photograph.

Keyword describing conditions:
Select...
What keyword best describes the conditions displayed in your photograph.

Water Depth (in inches)
Add depth in inches here
If you are documenting a gauge or meter, please report the water depth (in inches).

Picture title:
Provide a brief title for your photograph and report.

2. Select Location

Specify the location for this entry by clicking/tapping the map or by using one of the following options.

Search Lat/Lon

Latitude (Y)
37.85313

Longitude (X)
-92.23575

Set Location

Latitude: 37.85313, Longitude: -92.23575

Map showing the location of the gauge. The map includes a topographic inset and a legend.

3. Complete Form

Add this information to the map.

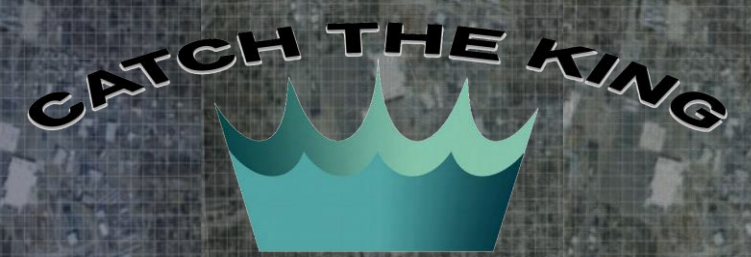
Submit entry and give permission to use my photo



More information

The project's website (tinyurl.com/floodgauge) features many pages with more information about the project including an in-depth explanation of the project, a page for each gauge, my biography, and the scientific importance of my project.

Thanks to Flood Forecasters



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Forecasts

Evidence-based planning for changing climate



Climate change is responsible for changes in water levels, temperature, and precipitation. Our ability to forecast these changes helps mitigate impacts and plan for resilient communities. Forecasting traditionally uses historic data to determine the direction of future trends. Uncertainty is introduced when processes affecting change are not static over long time periods. Strategic integration of information across planning horizons can allow communities to more effectively plan for the next tide, a catastrophic storm, or a future landscape that might look very different from today.



WATER LEVELS

Information on water levels now and into the future; real-time data, near and long-term predictions

[About VA Sea Level](#)

Historic data and projections

[Tidewatch](#)

Tidewatch network of 10 observing stations predicts a 36 hour water level forecast



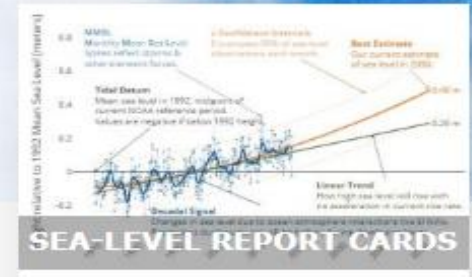
WATER LEVEL VIEWERS

How deep and where will the water be from various sea level rise scenarios

[Sea Level Projection Viewer](#)

See the 36 hour water level forecast. Currently functional for Hampton Roads.

[Tidewatch Viewer](#)



SEA-LEVEL REPORT CARDS

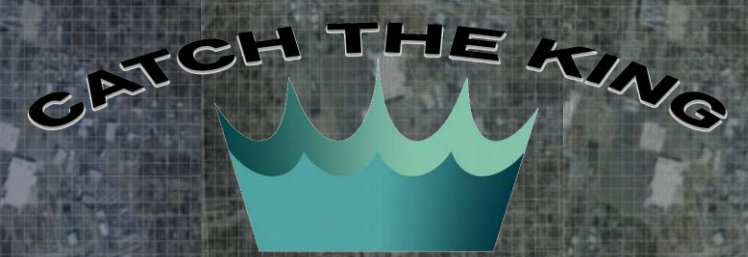
The Virginia Institute of Marine Science display of sea-level trends and projected sea-level height for 32 U.S. coastal locations

[Report Cards](#)

ADAPTVA

AdaptVA.org

Thanks to Flood Forecasters



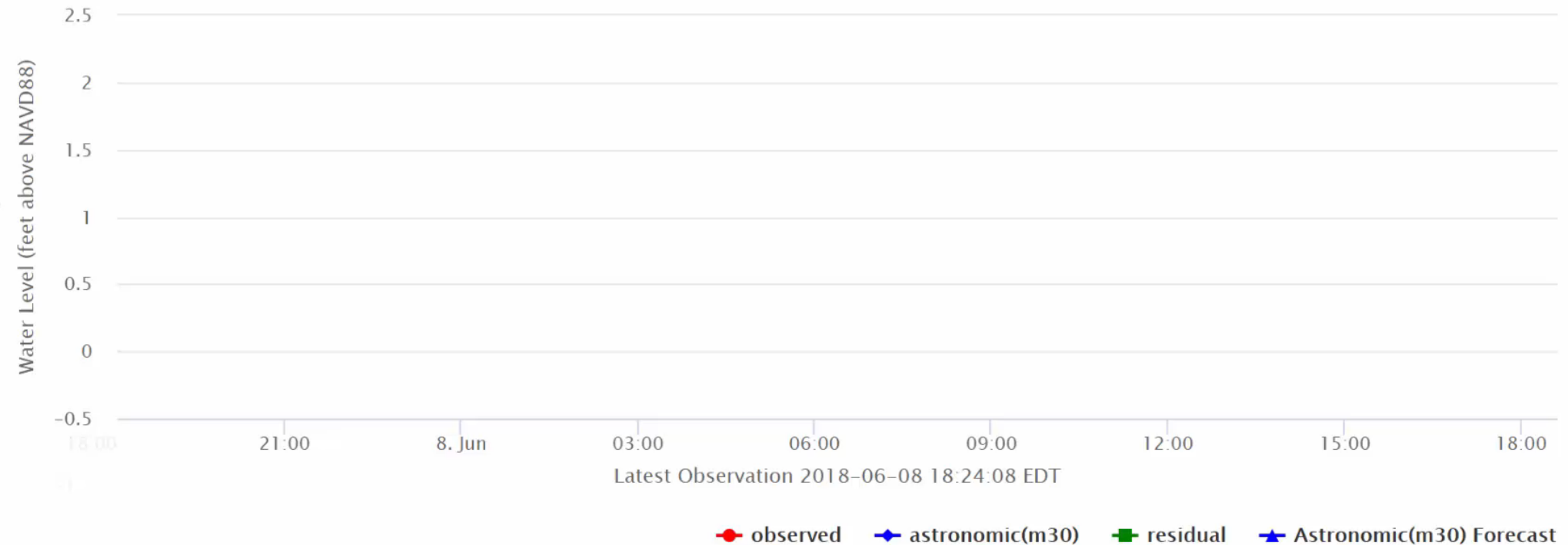
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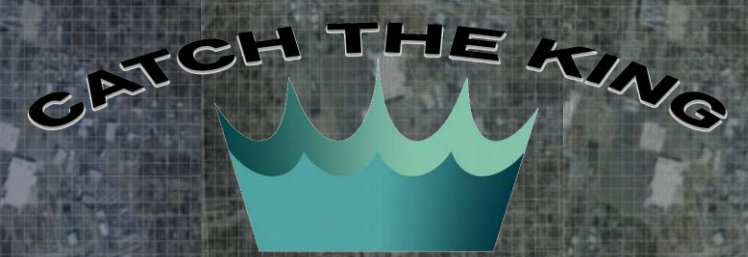
36 Hour Forecast for NN03



ADAPTVA

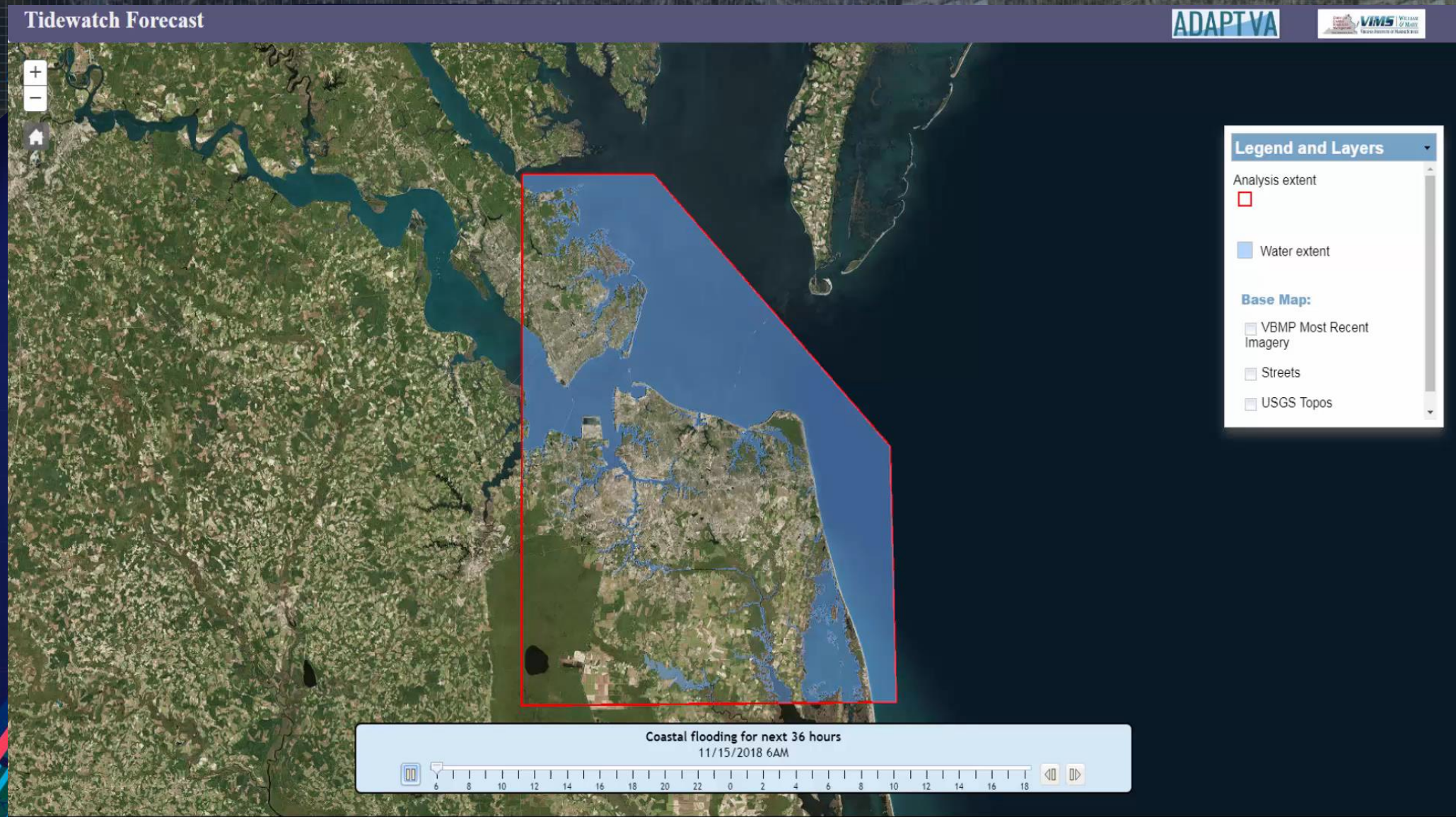
AdaptVA.org

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VIMS VIRGINIA INSTITUTE OF MARINE SCIENCE

DIRECTORY VISIT APPLY EVENTS

ABOUT RESEARCH & SERVICES EDUCATION PUBLIC PROGRAMS NEWS BAY INFO GIVING

BY LOCALITY

- Eastport, ME
- Portland, ME
- Boston, MA
- New York, NY
- Long Beach, CA

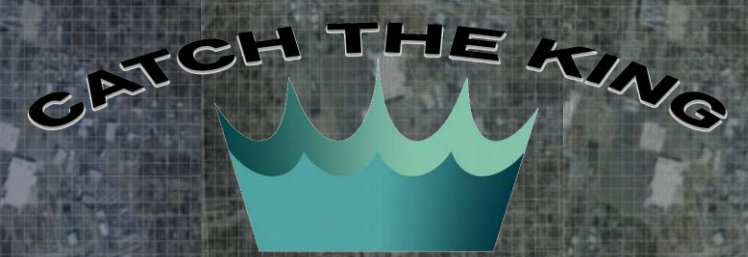
Home > Research & Services > Data Products > Sea-Level Report Cards > Localities > Norfolk, VA

Norfolk, Virginia

Sea-Level Report Card

2050 Projection

Thanks to App Developers



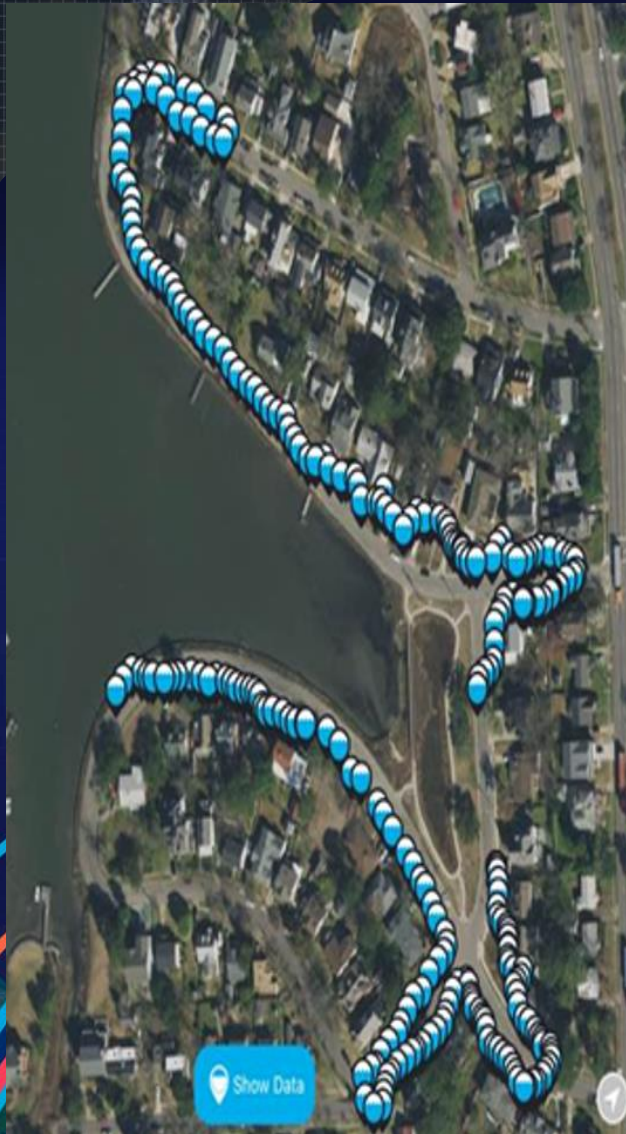
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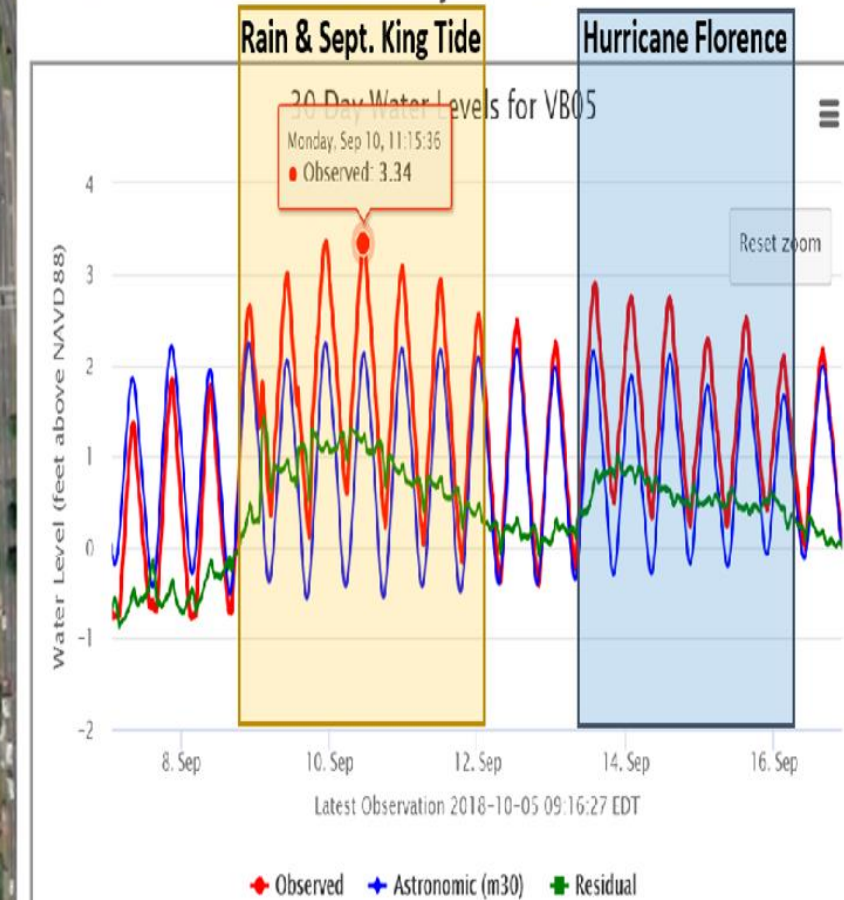
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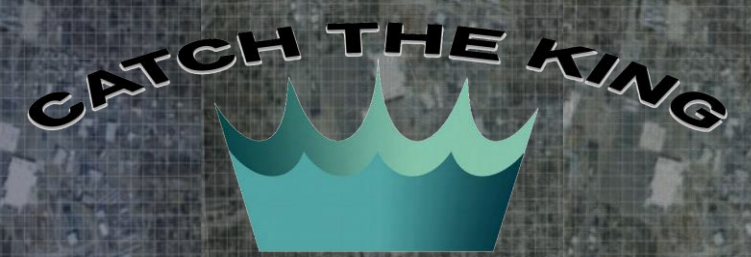


Mapleton Bridge, Bypass Canal

Extratidal Water Levels: 30-Day Observations



Thanks to App Developers



Thank You & Review

- Witnessed past King Tides and inundation events since 2014

Animation of Forecast Modeled Extents on September 27, 2015 in Surrey Crescent Plotted with Maximum Inundation Extents from Sea Level Rise App

1. Thank You To:

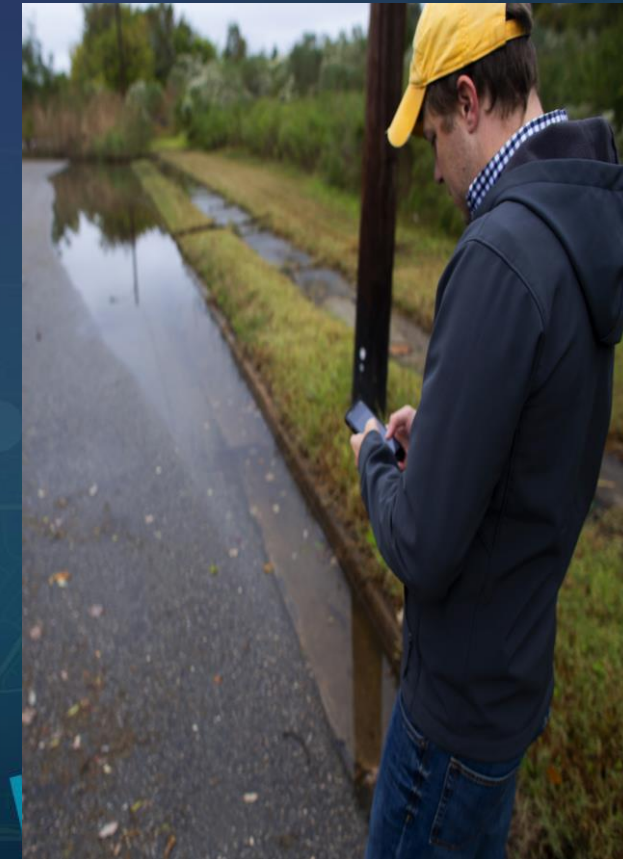
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Average Horizontal Distance Difference = 8.25m (n = 345 points)



Thanks to App Developers



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Changes Since Last Year's Catch the King

1. Now only request to join new regions- Not events too

- Removes a step in training sessions
- Can immediately collect data in a region's events once admitted by a manager

2. Image URLs now associated with points

- See pictures in a map popup by clicking on their associated data point
- View/download the images directly from the auto-generated app event URLs

3. Directional heading visualization added

- Images are more useful when superposed on a map with directional heading
- 3D street-level model results can be more readily compared with these data

Thanks to App Developers



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Changes Since Last Year's Catch the King

1. Mappers now only have to join a region to access all of its mapping events, and don't have to also request access to map in its events.

- Removes a step in training sessions
- Can immediately collect data in a region's events once admitted by a manager

Consequence: Ease of Use. Volunteers from last year's Catch the King didn't even have to join the king tide mapping event.

Just 5 seconds to open the app, tap the tools tab, and join that day's event to start mapping.

Thanks to App Developers



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2. Name your data

Changes Since Last Year's Catch the King

A screenshot of the 'Add an event' dialog box in the app. The dialog box is titled 'Add an event' and contains the text 'Adding a mapping event is easy and once you've created one you will be able to manage it.' Below the text are two buttons: 'Cancel' and 'Okay'. The dialog box is overlaid on a background showing a list of events under the heading 'My Regions 2018_KT_Newport News'. The events listed are 'High tide Newport News @Newport News' (Nov 7, 7:45 AM EST), '2018 Newport News CTK Kingtide Mapping @Newport News' (Oct 27, 10:45 AM EDT), and 'Newport News King Tide @Newport News' (Nov 5, 9:00 AM EST). The 'Name of location' field in the 'Add an event' form is highlighted with a yellow box. The form also includes fields for 'Nearby street address (required)', 'City (required)', 'State/Province (required)', 'Postal/Zip Code (required)', and 'Country' (set to 'UNITED STATES').

| | Cancel | Add an Event | Save |
|--|--------|---------------|--------------|
| Mapping starts | | Nov 10, 2018 | 12:00 PM EST |
| Mapping ends | | Nov 10, 2018 | 12:00 PM EST |
| Please fill out these details so that your mapping event shows up on the map | | | |
| Name of location | | | |
| Nearby street address (required) | | | |
| City (required) | | | |
| State/Province (required) | | | |
| Postal/Zip Code (required) | | | |
| Country | | UNITED STATES | |

| | Cancel | Add an Event | Save |
|--|--------|---------------|--------------|
| Mapping starts | | Nov 10, 2018 | 12:00 PM EST |
| Mapping ends | | Nov 10, 2018 | 12:00 PM EST |
| Please fill out these details so that your mapping event shows up on the map | | | |
| Park Outside | | | |
| City Hall | | | |
| Newport News | | | |
| VA | | | |
| 23606 | | | |
| Country | | UNITED STATES | |

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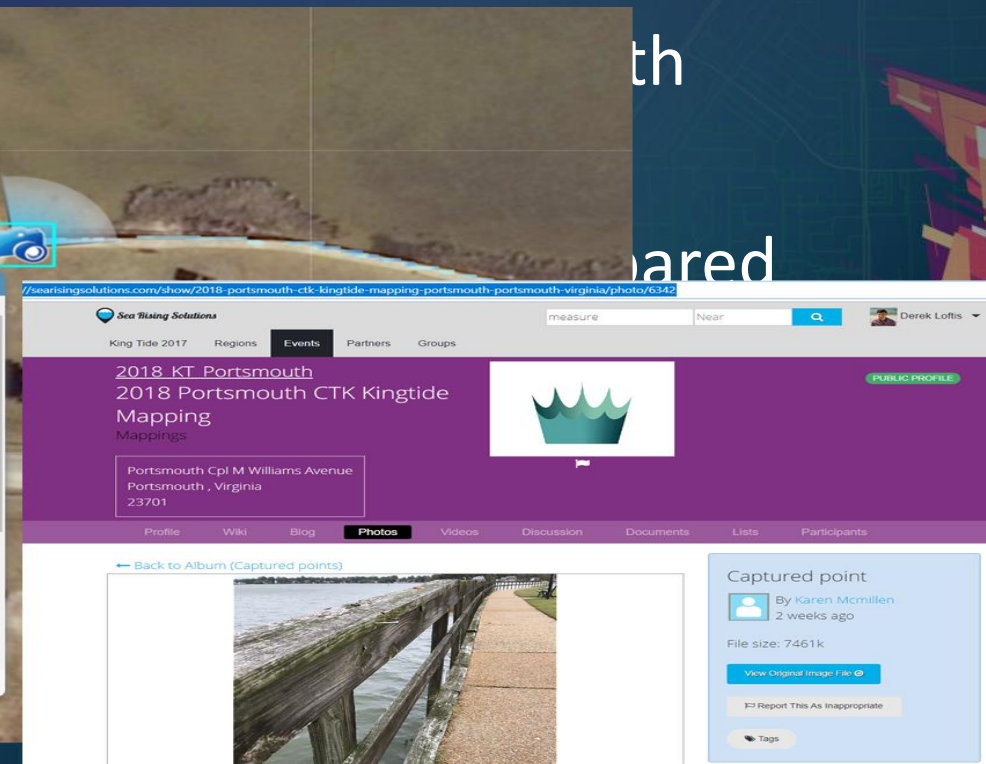
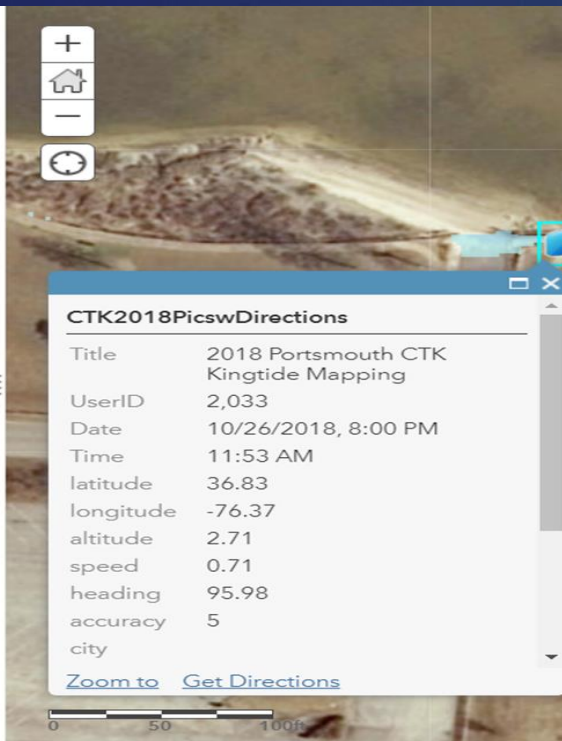
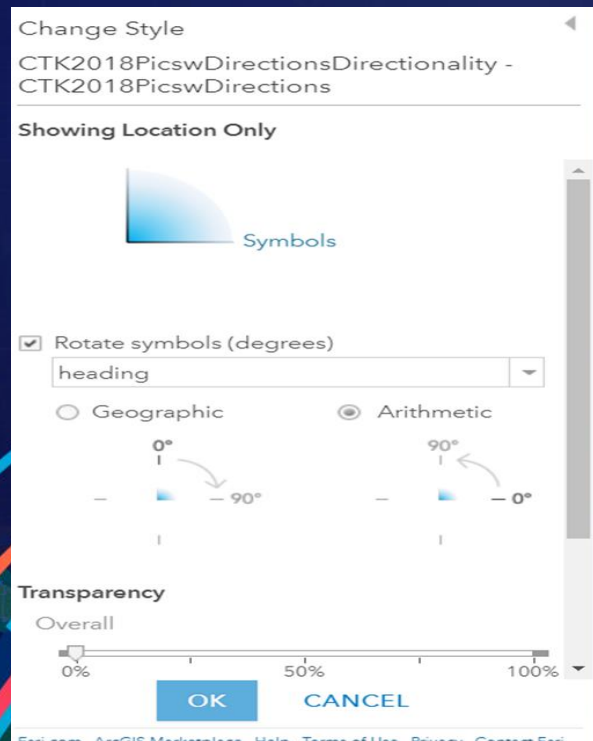
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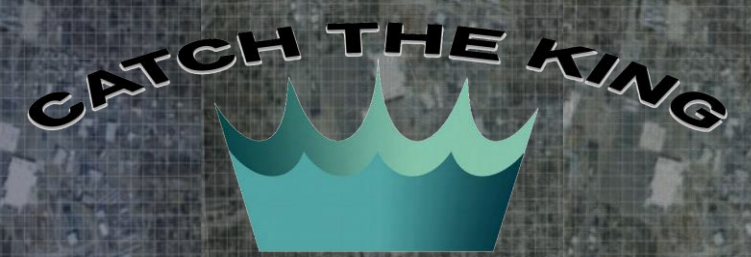
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Changes Since Last Year's Catch the King

3. Directional heading functionality is now incorporated into the App's internal metadata (from Concursive).



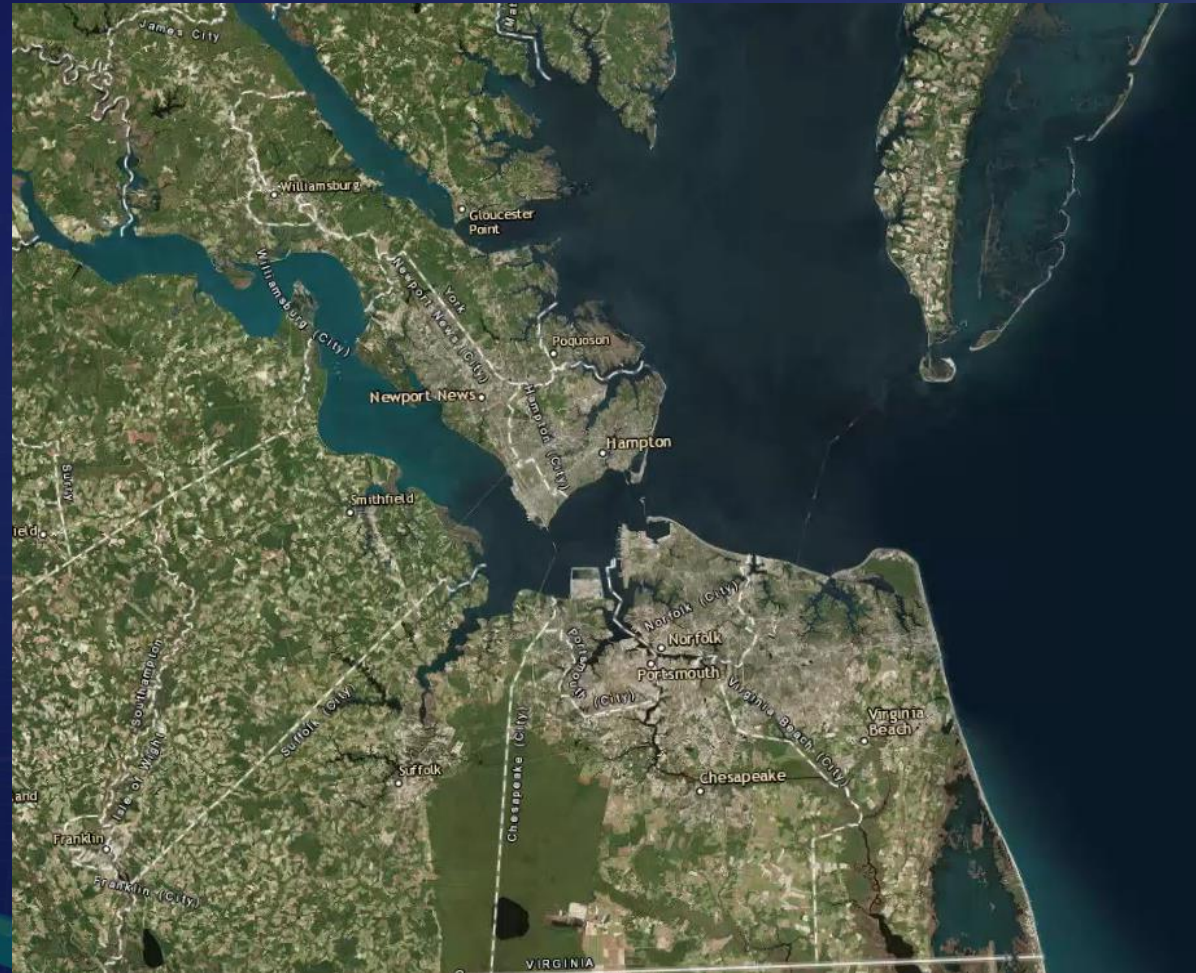
Review of App GPS Data



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Dynamic Time Lapse of GPS Data Entry on Oct. 27

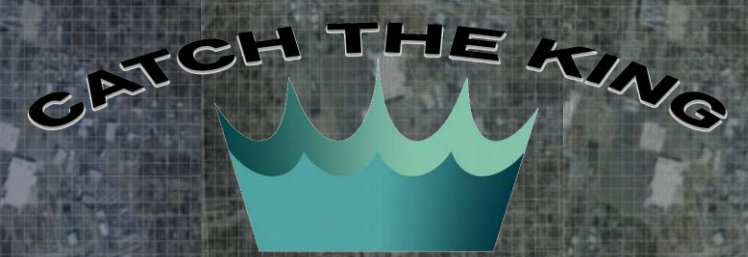


Interactive Flood Map Comparison

<http://bit.ly/2zcS7Ba>



Review of App GPS Data



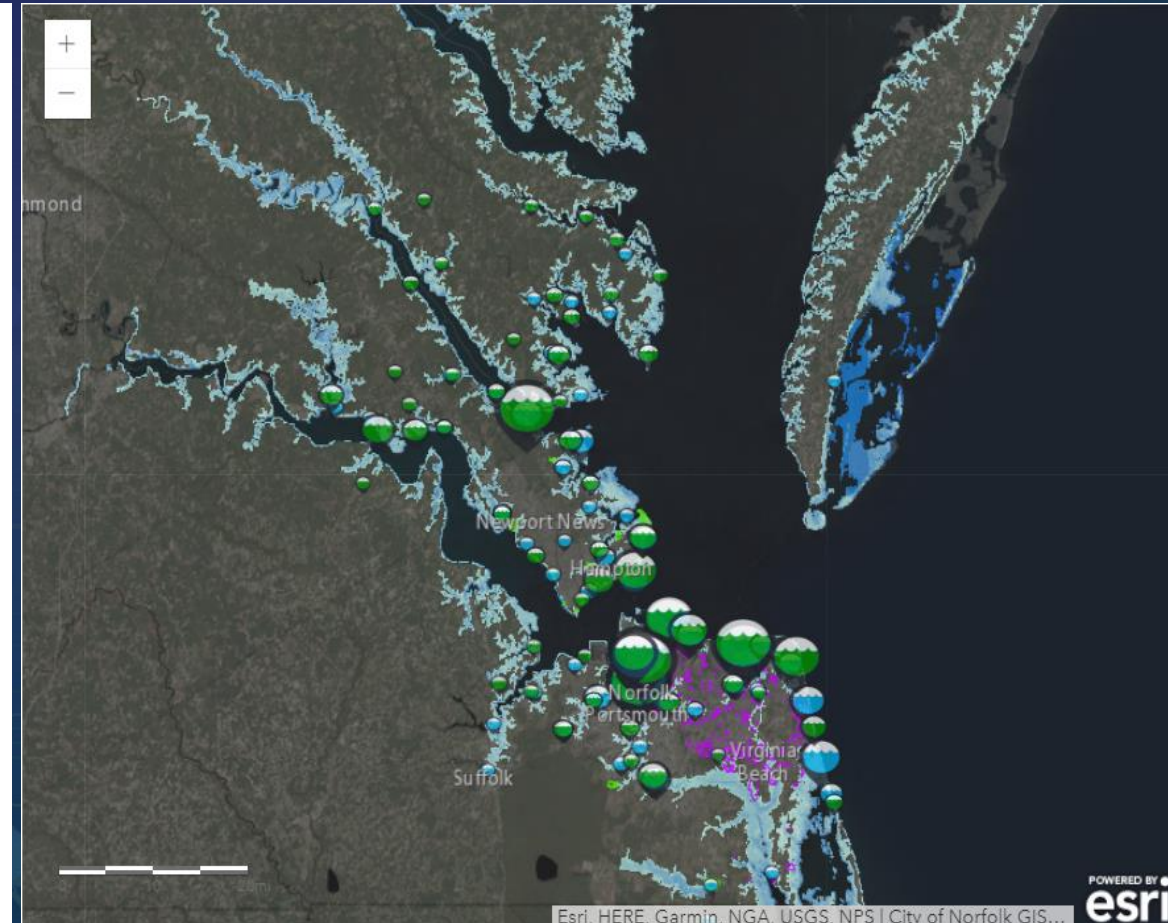
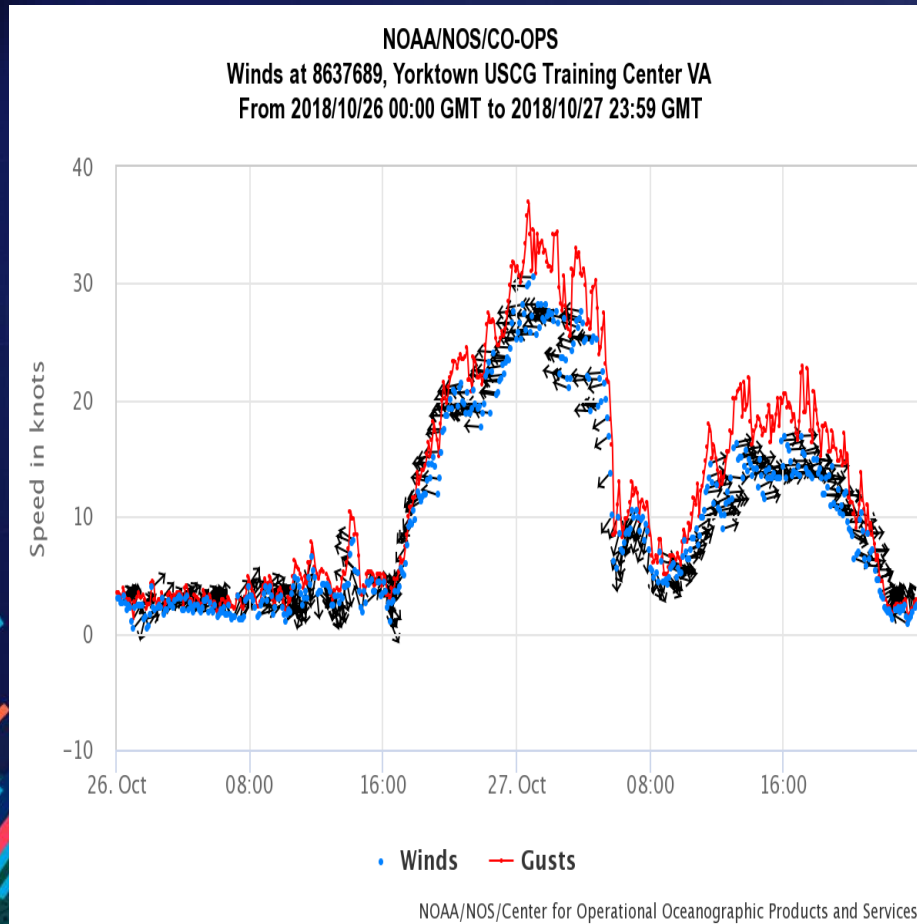
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Oct 27, 2018 King Tide Data Web Map:

(http://www.vims.edu/people/loftis_jd/Catch%20the%20King/index.php)



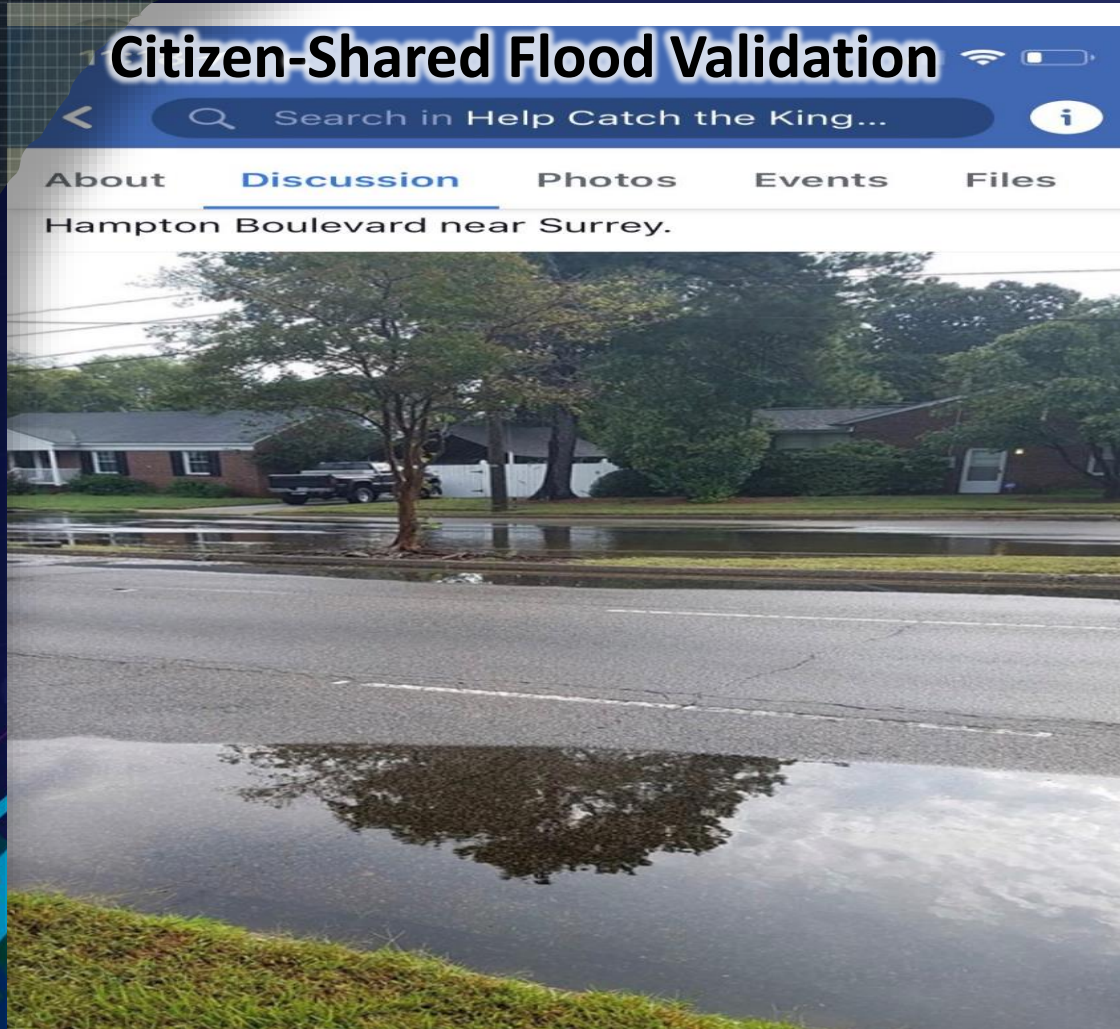
What We Learned from →



Thank You & Review

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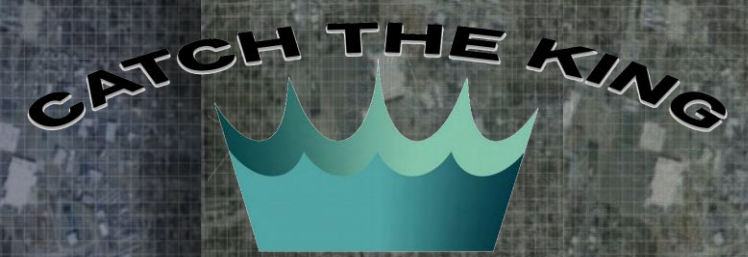
Citizen-Shared Flood Validation



VIMS SCHISM Tidewatch Forecast

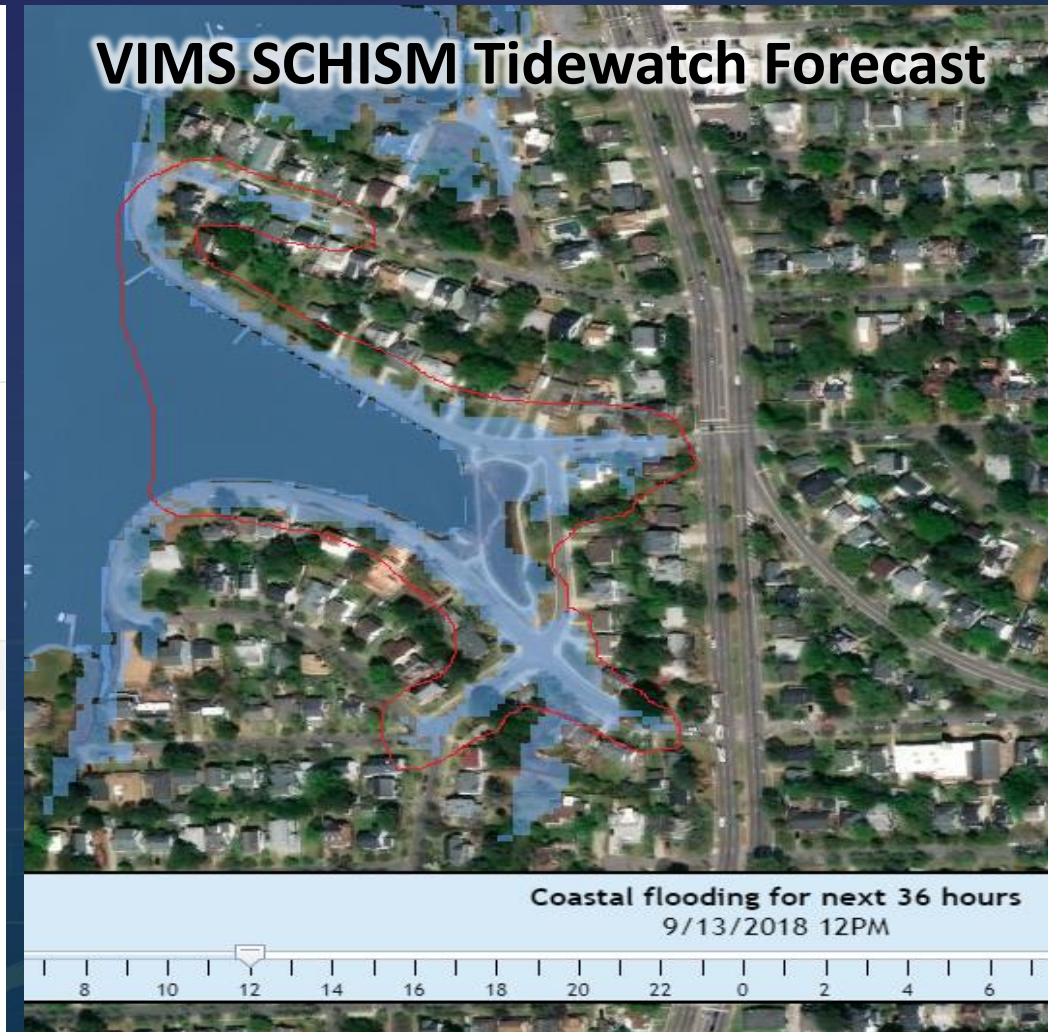
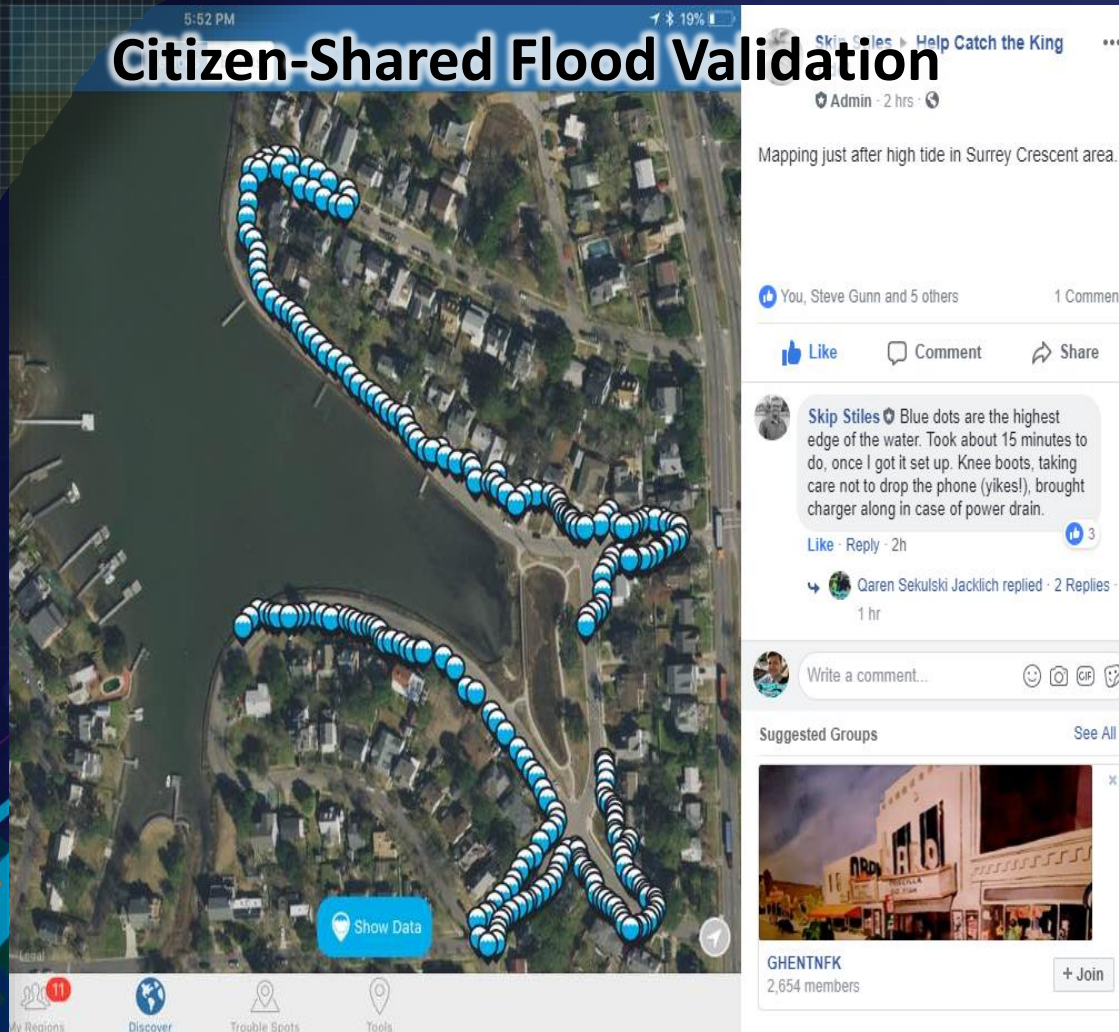


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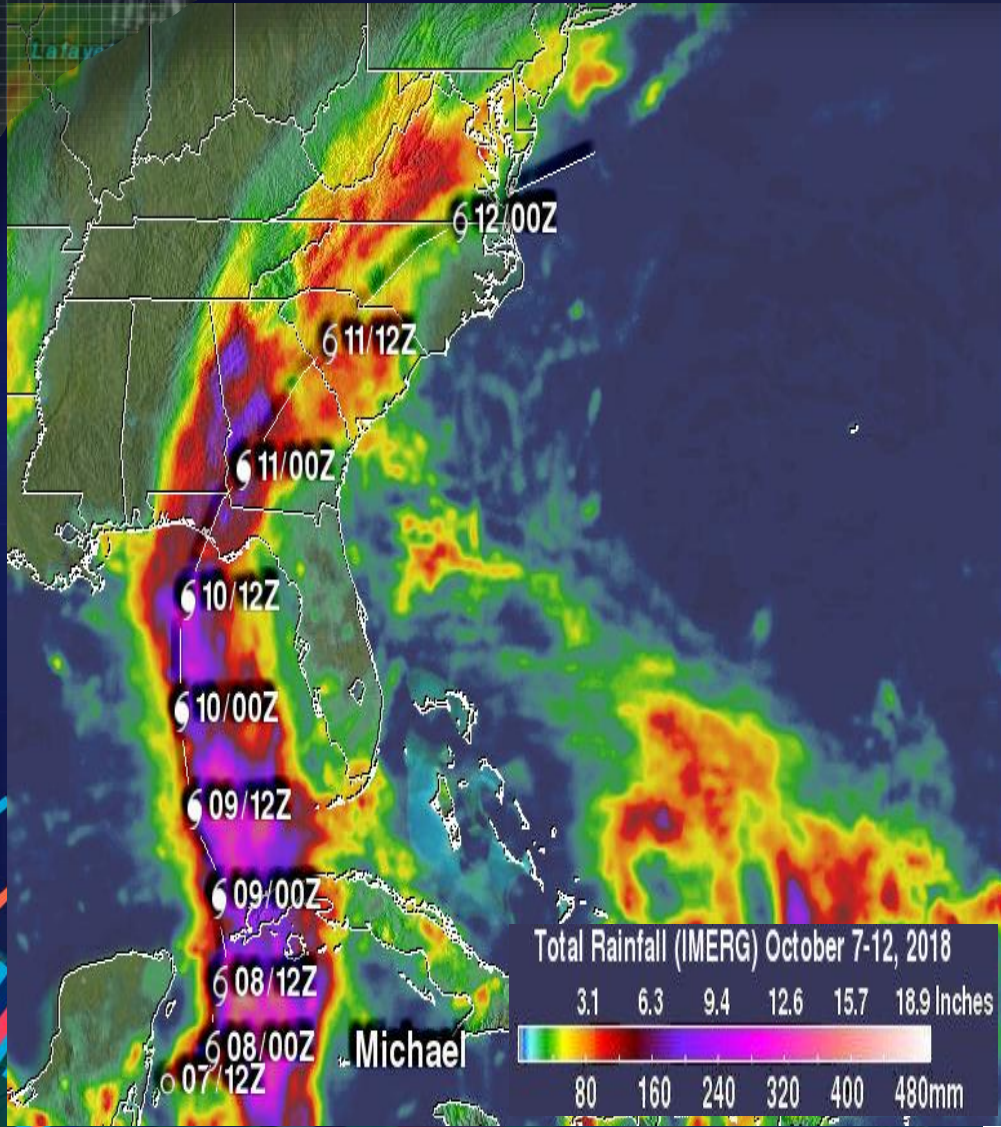


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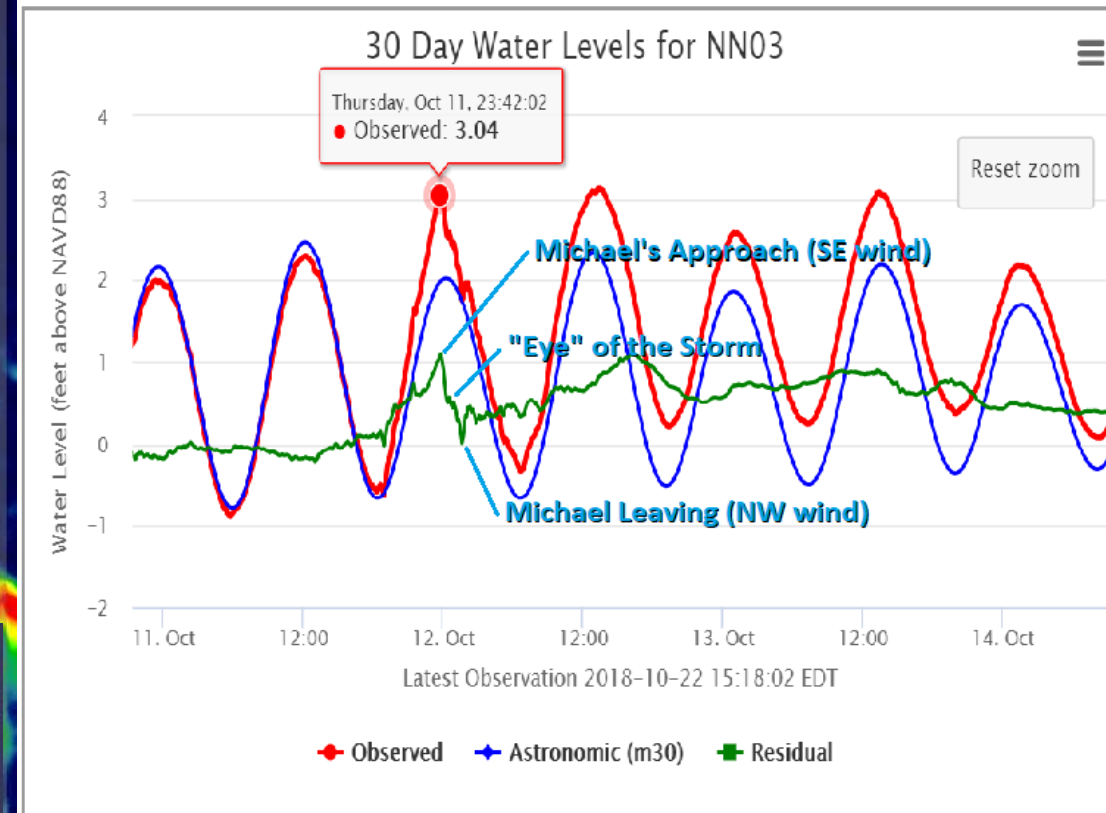
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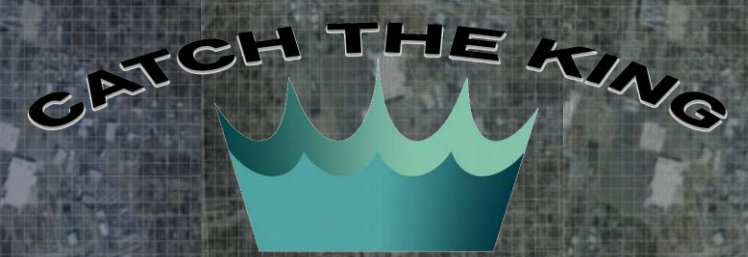


Leeward Marina, Huntington Park, James River

Extratidal Water Levels: 30-Day Observations



Review of App GPS Data



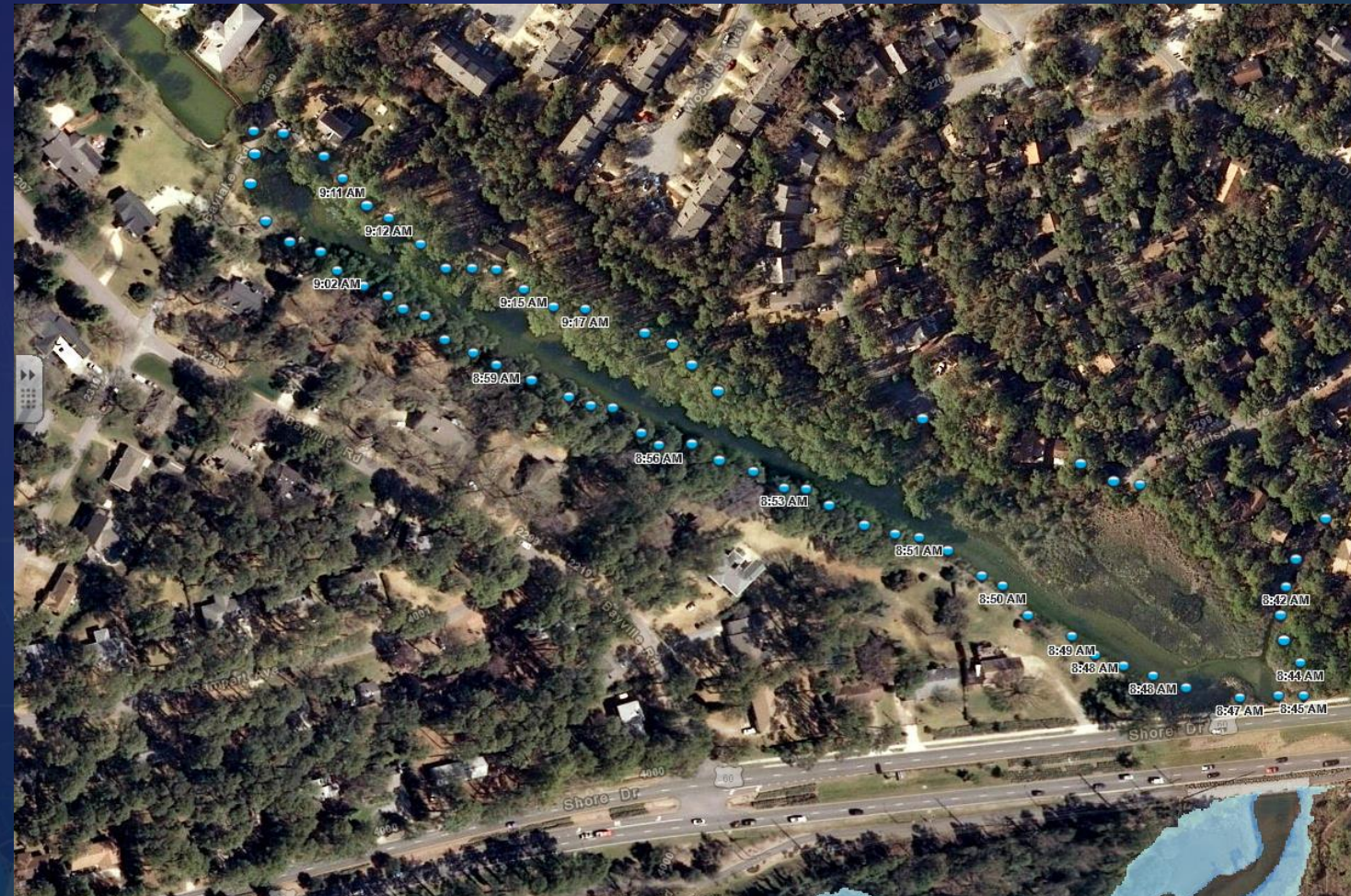
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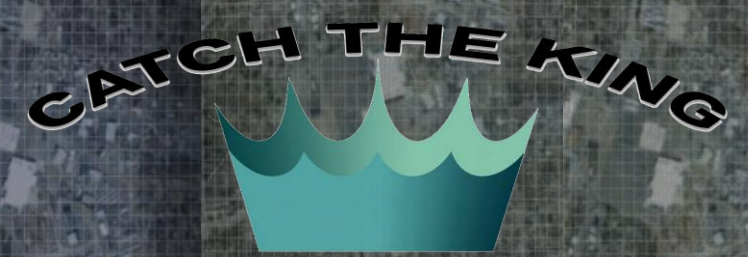
One of the biggest unanticipated benefits of Catch the King was the free hydrologic correction of fine-scale drainage features missing from aerial lidar surveys.

This can be laborious to fix and involves field surveys to confirm; often costing several \$100k for private firms to correct! VA got this for free through CtK.

Examples of Crowdsourced Hydrocorrection



In Conclusion



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- C. App Developers

2. Review of:

- A. App Data
- B. What We Learned

C. Conclusion

1. Year-round flood monitoring will help us better understand inundation from different types of events.
2. The results from Measure the Muck suggest that nutrients transported into the water system due to flooding events should be considered for a better estimation of TMDL.
3. VIMS' 2018 flood forecast was accurate:



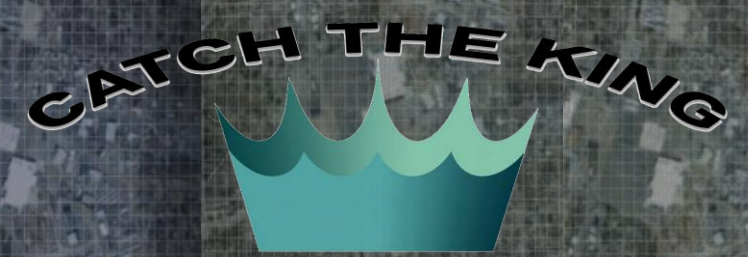
≈1.8 in. (3.7 cm)



≈24.6 ft. (6.2 m)



In Conclusion



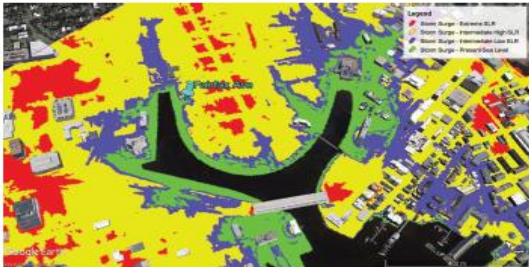
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1. Thank You To:
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 - B. Media Partners
 - C. App Developers
2. Review of:
 - A. App Data
 - B. What We Learned
 - C. Conclusion**
3. Catch the King effectively crowdsourced hydro-correction. Ground-truthing information is valuable. Some waterways weren't accurately represented by LiDAR:
 - Including ditches and narrow creeks
 - Areas canopied by trees during flyovers
4. Engaging the public affords scientists greater extensibility for these type of projects (i.e. private property access).
5. Year-round mapping efforts have been spearheaded by WHRO to keep mapping going through to Catch the King 2019



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