



Report #2
Sea Level Rise Conference

Sea Level Rise in Tampa: A Policy Approach

SEA-LEVEL RISE IN TAMPA: A POLICY APPROACH

FUNDED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

TUESDAY, JANUARY 12TH, 2021

9:00 A.M. - 12:30 P.M.

REGISTER ONLINE:

<https://register.gotowebinar.com/register/6960501652163916044>



WELCOME

Sea Level Rise In Tampa: A Policy Approach

The City of Tampa has been awarded a \$75k grant from The Florida Resilient Coastlines Program (FRCP) to study the impacts of sea level rise on our community and to identify key recommendations for resilience planning. With the grant, the Florida Center for Community Design and Research will complete an analysis of current land use, zoning, and building regulations and recommend strategies to prepare for projected sea level rise impacts.

This webinar will inform community stakeholders of the project and of the potential implications. We have assembled a great list of local and national experts on sea level rise to support our efforts. The agenda is found on the next page and will include session on:

- The State of Sea Level Rise In Tampa Bay
- Why Should We Be Concerned?
- What Areas of the City are most at risk to Sea Level Rise?
- What can we learn from other communities?
- Regulatory options in response to Sea Level Rise

For more information: <https://www.tampa.gov/city-planning/sea-level-rise-study>

AGENDA

Sea Level Rise In Tampa: A Policy Approach

January 12, 2021 9:00 AM – 12:30 PM

9:00 AM – 9:15 AM	Opening & Welcome	Randy Goers Director of City Planning
9:15 AM – 9:35 AM	State of Sea Level Rise Maya will present an overview of Sea Level Rise projections for the Tampa Bay region as recommended by the Tampa Bay Climate Science Advisory Panel.	Maya Burke Tampa Bay Estuary Program
9:35 AM – 9:55 AM	Why Should We Be Concerned? This session will provide a summary of the ways in which sea level rise will impact our community.	Forbes Tompkins The Pew Charitable Trusts
9:55 AM – 10:20 AM	Sea Level Rise In Tampa Maps of future sea level rise projections will be presented showing which areas of the city are at most risk and potentially when impacts might occur.	Brian Cook Florida Center of Community Design & Research
10:20 AM – 10:40 AM	Success Stories Andy will present lessons from Virginia, South Carolina and Louisiana as examples that could be pursued in Tampa.	Andy Sternad Waggoner and Ball
10:40 AM – 11:00 AM	Challenges & Opportunities in Tampa Brian will discuss potential land use approaches and regulations that could help mitigate the potential impacts.	Brian Cook Florida Center of Community Design & Research
11:00 AM – 12:00 PM	Discussion Forum Industry leaders discuss what they've heard and provide insights into how to create a consensus. Jennifer Motsinger, Tampa Bay Builders Association Jake Cremer, Stearns Weaver Daniel Parsons, Atkins Global Chris Zambito, Atkins Global Chris Ahern, Applied Technology & Management	Taryn Sabia, Moderator USF School of Architecture
12:00 PM – 12:30 PM	Questions & Next Steps	Randy Goers Director of City Planning

SPEAKERS AND PANELISTS

Sea Level Rise In Tampa: A Policy Approach

January 12, 2021 9:00 AM – 12:30 PM



Maya Burke, Tampa Bay Estuary Program

Maya is the Assistant Director of the Tampa Bay Estuary Program. She is responsible for strategic planning, grants management, and implementation reporting for the benefit of a healthy bay; she distills Tampa Bay-specific research for a broader audience; and facilitates working groups, including the Tampa Bay Nitrogen Management Consortium and the Tampa Bay Climate Science Advisory Panel. Maya has spent 15 years working in water resource management and environmental land use planning. Prior to working at the Tampa Bay Estuary Program, Maya worked for the Southwest Florida Water Management District and the Tampa Bay Regional Planning Council. She is a graduate of New College of Florida and a native Floridian.



Forbes Tompkins, The Pew Charitable Trust

Forbes manages the federal policy portfolio of Pew's flood-prepared communities initiative, which works to reform flood policy to better prepare people and property for future risks. In this role, he oversees the development of innovative policies that can make our nation's infrastructure more resilient to floods, reduce disaster damages, modernize the National Flood Insurance Program, and promote nature-based solutions. He also leads Pew's call on behalf of mayors, state legislators, and governors for the federal government to prioritize flood resilience as the United States works to modernize its crumbling infrastructure.

Before joining Pew, Tompkins was a research associate at the World Resources Institute, where he analyzed the effects of rising sea level and heavy precipitation on communities, local response efforts, and the need for national policy to mitigate damage. He also held positions at the Institute for Governance & Sustainable Development and on Capitol Hill as an environmental science and policy expert. Tompkins holds a bachelor's degree in meteorology from Florida State University and master's degrees in meteorology from the Florida Institute of Technology and energy policy and climate from Johns Hopkins University.



Brian Cook, MLA, ASLA, Florida Center for Community Design & Research

Brian is an assistant research professor in the Florida Center for Community Design and Research at the University of South Florida. He is also a registered landscape architect with 15 years of experience. As an educator, Brian has focused on landscape and urban design while teaching at the University of Colorado Boulder, University of Georgia and now at the University of South Florida. His work and research is focused on the site-specific nature of landscape as well as issues of coastal resiliency and infrastructure.



Andy Sternad, Waggonner and Ball

Andy is an architect and urban designer and a leader in Waggonner & Ball's resilience practice. He focuses on creating water design strategies at urban and building scales, seeking holistic solutions that reinforce character and addressing issues of climate, ecology, economy, and people. He is a graduate of Washington University in St. Louis and the Yale School of Architecture.

Andy was a key participant in the New Orleans Dutch Dialogues, Waggonner & Ball's novel collaboration between Dutch and American engineers, designers, and planners to re-envision the city's relationship to water after Hurricane Katrina that has since been refined and replicated in Virginia, Connecticut, Texas and South Carolina. Currently Andy manages the firm's work on the Isle de Jean Charles resettlement in Louisiana, a first-of-its-kind effort in the U.S. to relocate an entire coastal community. He also manages the firm's work in Charleston, analyzing land and water impacts for the City's comprehensive plan update and advising the City on the U.S. Army Corps of Engineers' study for storm surge protection.



Taryn Sabia, Florida Center for Community Design and Research

Taryn is Research Associate Professor and Director of the Florida Center for Community and Research at the University of South Florida's School of Architecture and Community Design. The Center provides design expertise, technical assistance, applied research, and community engagement services in Florida's growing communities to address urban challenges related to the built environment. Since 2014, she has overseen faculty, researchers, and graduate students to deliver the Center's mission to assist the citizens of Florida in Creating more livable and sustainable communities.

Taryn has advised over 30 mayors on sustainable development and has worked with elected bodies both nationally and internationally. Her professional work has spanned policy legislation for building and energy codes, urban transportation systems, implementation of CDBG, and resiliency and mitigation planning for Florida cities. Taryn has extensive experience building partnerships between community, organization, and government leaders. She serves on several national advisory committees.



Chris Ahern, Applied Technology and Management

Chris is an experienced Program and Project Manager on a variety of waterfront projects. He leads multi-discipline Project Teams to evaluate potential environmental impacts, perform feasibility studies, identify sustainable solutions to design challenges, execute permitting strategies, procure the necessary Contractors and ultimately deliver successful development projects. His experience is related to surface water quality, waterfront property or sites within 100 yards of a shoreline (i.e., beach, bulkhead or river bank) and he regularly identifies opportunities to improve resilience of waterfront infrastructure. He recently lead the \$21M redevelopment of Maximo Marina in St. Petersburg, FL.

As Development Manager, he was responsible for site assessments, feasibility studies, proformas, development strategy, procurement of Contractors, Construction Management, commissioning and handover to IGY Maximo Marina Operation Team. Chris' other significant waterfront development projects include reclaimed islands projects in Dubai, U.A.E. (i.e., Palm Jumeirah, Palm Jebel Ali and World Islands).



Jacob Cremer, Stearns Weaver

Jake counsels clients in their interactions with local, state, and federal governments on environmental, land use, and land development issues. He has been lead counsel on a variety of complex permitting and economic development matters. He excels in complicated matters requiring both environmental and land use permitting, including brownfield designations, urban redevelopment, and master-planned communities. He has extensive experience protecting environmental and land use permits against challenges, defending against government compliance and enforcement issues, and litigating property rights issues, including before the United States Supreme Court.

A sixth-generation Floridian, Jake grew up in Palatka working in his family's timber operations and has significant experience working with agriculture, silviculture, agribusiness, and heavy industry interests. Because of this personal experience, Jake routinely assists large agricultural landowners in defense of their greenbelt classifications and in asserting Right-to-Farm Act challenges to government overreach. He also assists them with long-term strategic planning for development entitlements and unlocking alternative income streams, including the use of wetland mitigation banks and conservation easements.

Jake began his law practice in Tallahassee, where he gained experience dealing with the legislative and regulatory process of state government. As a Gubernatorial Fellow at the Department of Community Affairs, he participated in executive-branch policymaking and developed relationships with state environmental and growth management regulators. This experience allows Jake to advise clients on whether permitting, litigation, or lobbying is the best approach for their needs.



Jennifer Motsinger, Tampa Bay Builders Association

Jennifer Motsinger is the Executive Vice President of the Tampa Bay Builders Association. Her role is to manage the day to day operations of the association and to be the voice of the building industry. The Tampa Bay Builders Association is one of the largest and influential trade organizations in the state of Florida representing members of the residential building community in Hillsborough, Pasco and Pinellas counties.

For over 20 years, Jennifer has worked through the governmental affairs process at all levels of and has experienced major changes in the planning and regulatory process. Her political roots go deep as she has worked in a variety of roles on numerous campaigns. Her experience includes working on national issues and presidential campaigns as well as state and local races. Jennifer helped to guide the TBBA's political activities working closely with candidates at all levels of government.

Jennifer is well respected and known throughout the Tampa Bay area and her leadership has led to many successes for the association as well as general improvement in public perception of the industry and better relationships with the media and regulatory community. She has served her on Hillsborough County's Economic Prosperity Committee, Tampa Economic Competitiveness Committee as well as Development Services Advisory Team, Pasco's School Infrastructure Task Force and is a member of the Urban Land Institute.

Attendee

Report: Tampa Sea Level Rise Conference

Report Generated:
01/13/2021 09:25 AM
EST

Actual	Start	Duration	# Registered	# Attended
Date/Time				
01/12/2021 08:36 AM EST		3 hours 59 minutes	287	216

Attendee Details

Attended	Last Name	First Name	Time in Session
Yes	Abberger	Robert	3 hours 33 minutes
Yes	Aborizk	Angela	3 hours 8 minutes
Yes	Alexander	Justin	3 hours 16 minutes
Yes	Allushuski	Ben	1 hour 53 minutes
Yes	Anisi	Amir	2 hours 59 minutes
Yes	Apostol	Kristy	1 hour 36 minutes
Yes	Araj	Elie	2 hours 40 minutes
Yes	Aude	Robert	29 minutes
Yes	Awad	Alex	3 hours 13 minutes
Yes	Ayala	Joseph	2 hours 33 minutes
Yes	Bacon	Richard	3 hours 33 minutes
Yes	Bailey	Glenn	3 hours 28 minutes
Yes	Bame	Jeffrey	2 hours 50 minutes
Yes	Banez	George	59 minutes
Yes	Baraoidan	Sean	5 minutes
Yes	Barker	Courtney	2 hours 32 minutes
Yes	Bartholomew	Lara	1 hour 43 minutes
Yes	Bennett	Carroll Ann	3 hours 31 minutes
Yes	Bhide	Vik	3 hours 31 minutes
Yes	Bird	Jason	48 minutes
Yes	Blankinship	Shannon	3 hours 10 minutes
Yes	Boutros	Lilian	3 hours 32 minutes
Yes	Brasier	Alana	1 hour 25 minutes
Yes	Brendis	Lindsay	1 hour 5 minutes
Yes	Britt	Austin	3 hours 32 minutes
Yes	Brookins	Sonja	1 hour 7 minutes
Yes	Brown	Joel	2 hours 19 minutes
Yes	Brown	Gary	43 minutes
Yes	CARNAHAN	LIBBY	3 hours 32 minutes
Yes	CHIU	HONG TING	4 minutes
Yes	CHRISTIE	JOHN	3 hours 33 minutes
Yes	Caouette	Joel	3 hours 32 minutes
Yes	Cely	Alfredo	1 hour 19 minutes

Yes	Ceron	Maria	1 hour 48 minutes
Yes	Chatman	Rodney	2 hours 15 minutes
Yes	Cheng	Ana	3 hours 33 minutes
Yes	Citro	Joseph	3 hours 30 minutes
Yes	College	Shawn	3 hours 32 minutes
Yes	Collman	Rod	2 hours 46 minutes
Yes	Colvin	Beth	3 hours 32 minutes
Yes	Conklin	Chuck	3 hours 13 minutes
Yes	Cox	Lori	3 hours 28 minutes
Yes	Cumby	Raina	3 hours 32 minutes
Yes	Current	Kelsey	1 hour 44 minutes
Yes	DE JESUS	JOSE	2 hours 2 minutes
Yes	Da Silva	Gabriella	2 hours 22 minutes
Yes	Davis	Christopher	3 hours 33 minutes
Yes	Davis	Braden	1 hour 41 minutes
Yes	DeBosier	Jeff	3 hours 33 minutes
Yes	Deady	Erin	3 hours 6 minutes
Yes	Dixon	Janien	3 hours 33 minutes
Yes	Dollman	Kyle	2 hours 25 minutes
Yes	Donnelly	Felicia	2 hours 27 minutes
Yes	Dozark	Tara Wood	3 hours 8 minutes
Yes	Duke	Mary	2 hours 39 minutes
Yes	Dunn	Elizabeth	2 hours 54 minutes
Yes	Edwards	Sarah	60 minutes
Yes	Errett	Brooke	52 minutes
Yes	Estrada	Mary-Elizabeth	2 hours 54 minutes
Yes	Evans	Dallas	47 minutes
Yes	Fagioli	Greg	19 minutes
Yes	Ferguson	John	3 hours 30 minutes
Yes	Fernandez	Steven	3 hours 9 minutes
Yes	Figanmese	Ayse	3 hours 33 minutes
Yes	Figueroa IV	Daniel	3 hours 30 minutes
Yes	Fisher	Linda	3 hours 17 minutes
Yes	Flores	Juan	2 hours 14 minutes
Yes	Flynn	Larry	3 hours 30 minutes
Yes	Foster	Lisa	2 hours 10 minutes
Yes	Freedman	Karen	2 hours 49 minutes
Yes	Fritz	Adam	17 minutes
Yes	Fultz	Melissa	3 hours 4 minutes
Yes	Garren	Sandra	3 hours 19 minutes
Yes	Giles	Beau	43 minutes
Yes	Glickman	Susan	3 hours 27 minutes
Yes	Gohl	Windeliz	2 hours 51 minutes
Yes	Goolsby	Matthew	56 minutes
Yes	Gotwald	Jonathan	3 hours 32 minutes
Yes	Greenwood	Andrew	3 hours 33 minutes
Yes	Gregory	Ron	3 hours 33 minutes

Yes	Greminger	Keith	3 hours 20 minutes
Yes	Grimm	thomas	3 hours 18 minutes
Yes	Grizzle	Cynthia	3 hours 21 minutes
Yes	Guerra	Diego	3 hours 33 minutes
Yes	Gustafson	Jon	2 hours 55 minutes
Yes	Guzman	Karloren	3 hours 33 minutes
Yes	Harris	Andrew	1 hour 50 minutes
Yes	Hauer	Eddy	1 hour 60 minutes
Yes	Hauerstein	Peter	3 hours 12 minutes
Yes	Heberlein	Tim	3 hours 23 minutes
Yes	Henika	Kevin	3 hours 2 minutes
Yes	Hernandez	Ileana	3 hours 27 minutes
Yes	Herron	Vicky	1 hour 33 minutes
Yes	Hodde	Hank	2 hours 57 minutes
Yes	Hoffman	Adina	2 hours 22 minutes
Yes	Hudgison	JC	3 hours 33 minutes
Yes	Hull	Ron	1 hour 38 minutes
Yes	Hummel	Christina	3 hours 27 minutes
Yes	Hyde	Josie	2 hours 24 minutes
Yes	Irizarry	Michelle	47 minutes
Yes	Ishii	Stephanie	3 hours 33 minutes
Yes	Johnsen	Oona	1 hour 54 minutes
Yes	Karki	Sarita	3 hours 33 minutes
Yes	Katz	Jonah	1 hour 10 minutes
Yes	Kauffman	Deborah	2 hours 44 minutes
Yes	Khargie	Janelle	19 minutes
Yes	KlausSmith	Susan	1 hour 39 minutes
Yes	Kleinschmidt	John	29 minutes
Yes	Kling	Rachel	1 hour 34 minutes
Yes	Kopp	Christina	2 hours 37 minutes
Yes	Kremers	Holly	44 minutes
Yes	Lamphier	Trevor	2 hours 18 minutes
Yes	Lane	Tiffany	2 hours 52 minutes
Yes	Latshaw	Patricia	3 hours 33 minutes
Yes	Lau	Celeste	2 hours 55 minutes
Yes	Lauber	Paul	3 hours 33 minutes
Yes	Lee	Susan	2 hours 19 minutes
Yes	Lenzen	Philip	3 hours 24 minutes
Yes	Linebrink	Corine	1 hour 44 minutes
Yes	Linkous	Evangeline	1 hour 37 minutes
Yes	Locke	Katrina	1 hour 56 minutes
Yes	Lynn	Nicole	3 hours 32 minutes
Yes	Mages	Dawn	1 hour 1 minute
Yes	Martin	Monica	3 hours 33 minutes
Yes	Matos	Christopher	3 hours 32 minutes
Yes	Maurino	Michael	2 hours 54 minutes
Yes	McCallister	Chris	3 hours 33 minutes

Yes	McCarthy	Brian	3 hours 27 minutes
Yes	McCue	Tara	55 minutes
Yes	Mendoza	Ronaldo	2 minutes
Yes	Milch	Frederick	3 hours 31 minutes
Yes	Miller	Alexis	3 hours 32 minutes
Yes	Miller	Trinity	60 minutes
Yes	Monk	Tony	3 hours 13 minutes
Yes	Moore	James	2 hours 57 minutes
Yes	Moore	Maxine	2 hours 26 minutes
Yes	Morlan	Marty	2 hours 50 minutes
Yes	Morrow	Everett	3 hours 5 minutes
Yes	Motto	Merry Lee	2 hours 27 minutes
Yes	Newborn	Steve	3 hours 32 minutes
Yes	Nguyen	Levy	3 hours 26 minutes
Yes	O'Kane	Siobhan	2 hours 23 minutes
Yes	Overman	Jeremiah	1 hour 8 minutes
Yes	Painter	Ashlee	3 hours 32 minutes
Yes	Pati	Swamy	2 hours 44 minutes
Yes	Patterson	Christopher	3 hours 32 minutes
Yes	Perotin	Manuel	1 hour 52 minutes
Yes	Persaud	Heidy	15 minutes
Yes	Poynor	Stephanie	3 hours 5 minutes
Yes	Preudhomme	Jeanne	3 hours 33 minutes
Yes	Prime	Ryan	40 minutes
Yes	Quevedo Garcia	Luis	3 hours 33 minutes
Yes	Quinn	Joseph	3 hours 32 minutes
Yes	Reynolds	CJ	3 hours 25 minutes
Yes	Rhode	Rachel	2 hours 5 minutes
Yes	Rodger	Bryan	3 hours 32 minutes
Yes	Roepnack	Thomas	3 hours 33 minutes
Yes	Rogers	Stephanie	1 hour 14 minutes
Yes	Ryan	Marty	3 hours 32 minutes
Yes	Sadiku	Tony	1 hour 26 minutes
Yes	Sadler	Chet	3 hours 14 minutes
Yes	Sadler	Chester	2 hours 42 minutes
Yes	Salisbury	Troy	3 hours 32 minutes
Yes	Sampson	Zack	2 hours 40 minutes
Yes	Saxton	Michael	3 hours 33 minutes
Yes	Scolaro	Sheila	1 hour 41 minutes
Yes	Scott	Jenna	3 hours 33 minutes
Yes	Segers	Tom	3 hours 33 minutes
Yes	Shaffer	Noah	1 hour 35 minutes
Yes	Shannon	Katie	3 hours 19 minutes
Yes	Shuler	Tricia	1 hour 24 minutes
Yes	Sides	Ken	3 hours 33 minutes
Yes	Smart	Kayla	3 hours 33 minutes
Yes	Smith	Ryan	3 hours 32 minutes

Yes	Spain Schwarz	Rebecca	3 hours 32 minutes
Yes	Srivastava	Vibhava	3 hours 32 minutes
Yes	Stein	Kelsey	1 hour 5 minutes
Yes	Stevens	Nancy	2 hours 14 minutes
Yes	Stocker	Allison	2 hours 26 minutes
Yes	Taylor	Justin	2 hours 29 minutes
Yes	Tegan-Tawney	Elliott	3 hours 21 minutes
Yes	Tharp	Ashley	3 hours 33 minutes
Yes	Thatcher	Michael	1 hour 14 minutes
Yes	Thomas Simpson	Tamica	3 hours 33 minutes
Yes	Thompson	Ron	3 minutes
Yes	Tinkler	Ken	3 hours 32 minutes
Yes	Trotz	Maya	2 hours 3 minutes
Yes	Tufaro	Nicholas	1 hour 60 minutes
Yes	Turner	Jerel	3 hours 21 minutes
Yes	Vallone	Anthony	3 hours 26 minutes
Yes	Vanek-Dasovich	Ann	3 hours 32 minutes
Yes	Virca	Cat	3 hours 19 minutes
Yes	Ware	Emily	3 hours 33 minutes
Yes	Washington	Jan	3 hours 33 minutes
Yes	Weaver	Ron	3 hours 33 minutes
Yes	Weiss	Bart	3 hours 33 minutes
Yes	Whitmer	Meg	2 hours 55 minutes
Yes	Whitmore	Cameron	1 hour 49 minutes
Yes	Wilhelm	Kristin	1 hour 60 minutes
Yes	Williams	Robert	2 hours 5 minutes
Yes	Wilson	Britton	2 hours 56 minutes
Yes	Winn	Justin	2 hours 49 minutes
Yes	Winter	Maggie	2 hours 39 minutes
Yes	Woerner	Kalah	1 hour 55 minutes
Yes	Wolfe	Brian	2 hours 37 minutes
Yes	Wong	Ray	3 hours 33 minutes
Yes	Wylie	Jenna	2 hours 37 minutes
Yes	Yeh	Allison	3 hours 29 minutes
Yes	Youssef	Steve	2 hours 47 minutes
Yes	Zielin	Ron	8 minutes
Yes	Zomermaand	Debbie	34 minutes
Yes	jenkins	michelle	3 hours 33 minutes
Yes	long	vickki	3 hours 19 minutes
Yes	maslowski	marcel	17 minutes
Yes	twaite	william	3 hours 29 minutes
Yes	walter	charles	3 hours 15 minutes
No	Ahern	Christopher	--
No	Arroyo	Leandro	--
No	Bogner-Norton	Linda	--
No	Bolint	Mary	--
No	Boren	Sarah	--

No	Bourgeois	Marie	--
No	Boyce	Laura	--
No	Bulleit	Edwin	--
No	Cabrera	Gonzalo	--
No	Carroll	Kathy	--
No	Cierra	Gerardo	--
No	Citro	Joseph	--
No	Colantuoni	Ian	--
No	Compton	Philip	--
No	Condran	Michael	--
No	Date	Alison	--
No	Davis	Luke	--
No	Dickie	Laurance	--
No	Estep	Kevin	--
No	Flannery	Kelly	--
No	Gorobei	Valeriu	--
No	Harris	Erica	--
No	Henke	Emily	--
No	Hill	Eddie	--
No	Jackson	Kendal	--
No	Jankel	Eric	--
No	Karki	Sarita	--
No	Khant	Neil	--
No	Kling	Rachel	--
No	Knobel	Shelby	--
No	Laine	Todd	--
No	Lauricello	Daniel	--
No	Layton	Brooke	--
No	Lee	Stephen	--
No	Mehmood	Tayyab	--
No	Miller	Julia	--
No	Mirabella	Jacob	--
No	Myers	Brendan	--
No	Olajide	Margaret Olajide	--
No	Paczkowski	Piotr	--
No	Palomino	Pedro	--
No	Parsons	Daniel	--
No	Pellizzetti	Cristina	--
No	Penn	Hunter	--
No	Perez	Tamara	--
No	Perez	Arnaldo	--
No	Pyle	Justin	--
No	Reed	Alex	--
No	Rex	Jeremy	--
No	Reynolds	Tom	--
No	Rosales	Maria	--
No	Rosenblum	Anna	--

No	Ross	David	--
No	Schrader	Sean	--
No	Sinclair	David	--
No	Solis	Diego	--
No	Stiller	Heidi	--
No	Taylor	Brook	--
No	Templeman	Sarah	--
No	Templeman	Sarah	--
No	Tippin	Tracy	--
No	Torres	Tonia	--
No	WILDE	KATE	--
No	Weber	Chuck	--
No	Wood Jr	James S	--
No	Zambito	Chris	--
No	blalock	adam	--
No	daniels	suchi	--
No	kehoe	martin	--
No	maia	shaza	--
No	prokop	john	01/06/2021 11:45 AM EST



Conference
Sea Level Rise In Tampa: A Policy Approach

Deliverable 2

Meeting Announcements & Advertisements

Randy Goers

From: Randy Goers
Sent: Tuesday, January 5, 2021 10:18 AM
To: 'elizabethbolint@gmail.com'; 'monicapetrella91@gmail.com'; 'aengelman@flup.us'; 'weisst@hillsboroughcounty.org'; Jan Washington; 'sonjabrookins@gmail.com'; 'spachhai@gmail.com'; 'oona@ojlandscapearchitecture.com'; 'julia111660@gmail.com'; 'cjreynolds@tbrpc.org'; 'MHSCHINE@GMAIL.COM'; 'jorgevincentuy@gmail.com'; 'mramsey643@gmail.com'; 'josh@wideopenoffice.com'; 'corey.clark@foxtv.com'; 'eadunn2@usf.edu'; 'perotinma@cdmsmith.com'; 'joshuawostal@yahoo.com'; 'rweaver@stearnsweaver.com'; 'risksmitigator@gmail.com'; 'morank@hillsboroughcounty.org'; 'NATALIA.FERNANDEZ@NBCUNI.COM'; 'snewborn@wusf.org'; 'twaitew@hillsboroughcounty.org'; 'hummelc@hcflgov.net'; 'salisbury@hillsboroughcounty.org'; Justin Winn; 'briona.arradondo@foxtv.com'; Ryan Smith; Tonia Torres; 'ileanah12@gmail.com'; 'cgonzalez159@hccfl.edu'; 'justin@phdesign.us'; 'anacheng1@usf.edu'; 'suchitramba@usf.edu'; 'katieshannon@vhb.com'; 'heyd@plancom.org'; 'BSKOURES@HOTMAIL.COM'; 'rpalmer15@hccfl.edu'; 'nshaffer@camnetlease.com'; 'levy@tryal.design'; 'nfrejah@gmail.com'; 'sean@realbuildingconsultants.com'; 'jimm11yy@gmail.com'; 'nicholas.tufaro.pmp@gmail.com'; 'reachmejp@gmail.com'; 'brook.taylor.re@gmail.com'; 'jolouise@fastmail.us'; 'maryhelenduke1@gmail.com'; 'mduke@pascocountyfl.net'; 'vickivwray@yahoo.com'; 'palaschak@msn.com'; 'colleges@plancom.org'; 'dzhome@tampabay.rr.com'; 'ale.stout@yahoo.com'; 'mjones@hazenandsawyer.com'; 'cmatos@hazenandsawyer.com'; 'jrivers@blueskycommunities.com'; 'adriennek@gwu.edu'; 'sishii@hazenandsawyer.com'; 'andrew.harris@patelgreene.com'; 'brianchatwin@gmail.com'; 'mrsstephaniepoynor@gmail.com'; 'kapostol@tecoenergy.com'; Marcus Marks; 'dsinclair47@gmail.com'; 'rpm4218@verizon.net'; 'silkaramirez@hotmail.com'; 'horatio.m.johnson22@gmail.com'; 'Michael_Phelps@golder.com'; 'drop@skyhho.com'; 'craig.wells@freese.com'; 'carrieclewell@gmail.com'; 'kristine.hernandez@milhaus.com'; 'tellison@hwlochner.com'; 'etegantawney@drmp.com'; 'taniaingermany@hotmail.com'; 'johnhmc21@gmail.com'; 'ellyne711@gmail.com'; 'mcole71@gmail.com'; 'kellynclark1030@gmail.com'; 'alondracponce@gmail.com'; 'john.gumula@gmail.com'; 'kelsey.current@gmail.com'; 'villarioja@gmail.com'; 'jblen58@outlook.com'; 'chris.zambito@atkingglobal.com'; Cate Wells; 'mmacchia@mac.com'; 'rrhode@edf.org'; 'radarscove@gmail.com'; 'presidentofinterbay-sog@outlook.com'; 'suncoastsd@verizon.net'; 'jcitro@me.com'; Jan McLean; Tim Heberlein; 'guerrad@plancom.org'; 'maurino@westshorealliance.org'; 'ayse.figanmese@gmail.com'; 'heidyv214@gmail.com'; 'meestrada97@gmail.com'; 'mlmotto@gmail.com'; 'cbrimo@cgasolutions.com'; 'holly.kremers@meadhunt.com'; 'david.crawley@aecom.com'; 'kkress@tampasdowntown.com'; Corine Linebrink-Wain; 'kmformscript@gmail.com'
Cc: Danielle Shepard
Subject: City of Tampa Sea Level Rise Webinar
Attachments: JAN 12 Meeting Flyer 01.pdf

Greetings

You're receiving this email because you registered for a previous meeting on the City's Sea Level Rise Project.

On January 12, from 9 am – 12 noon, the City of Tampa will host a 3 hour webinar on Sea Level Rise and the impact on development regulations. Using a grant provided by the Florida Department of Environmental Protection, the City is exploring how its land development regulations might be affected by rising seas. The webinar will cover the following topics and provide a road map for completing the project.

- The State of Sea Level Rise in Tampa
- Why Should We be Concerned?
- Projected Impacts on the City
- Success Stories from Other Communities
- Regulatory Challenges and Opportunities for Tampa
- Next Steps

Interested persons can register for the webinar at: <https://attendee.gotowebinar.com/register/6960501652163916044>. The webinar will be recorded and made available on the City Planning webpage if you're not able to make it to the live meeting.

Agenda details, including our speakers and sessions will be released shortly.

If you have any questions, please contact me.

Thank you!

Randy

Randy Goers

Director, City Planning Department

City of Tampa / 1400 North Boulevard/ Tampa, FL 33809

p: (813) 274-8694 / randy.goers@tampagov.net

Please note: This e-mail is public record.

Randy Goers

From: Randy Goers
Sent: Friday, January 8, 2021 3:31 PM
To: Randy Goers
Subject: Program & Agenda: Sea-Level Rise in Tampa: A Policy Approach Webinar
Attachments: Sea Level Rise Program - January 12.pdf

Thank you for registering for the webinar on “Sea Level Rise In Tampa: A Policy Approach.” Attached is the agenda and list of speakers & panelists for the event.

Please forward to your interested colleagues and friends. The registration link is: <https://attendee.gotowebinar.com/register/6960501652163916044>

If you have any questions, please let me know.

See you Tuesday!

Randy Goers

Director, City Planning Department

City of Tampa / 1400 North Boulevard/ Tampa, FL 33809

p: (813) 274-8694 / randy.goers@tampagov.net

Please note: This e-mail is public record.

Emailed to:

SEA-LEVEL RISE IN TAMPA: A POLICY APPROACH

FUNDED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

TUESDAY, JANUARY 12TH, 2021

9:00 A.M. - 12:30 P.M.

REGISTER ONLINE:

<https://register.gotowebinar.com/register/6960501652163916044>





Sea Level Rise In Tampa: A Policy Approach

The City of Tampa has been awarded a \$75k grant from The Florida Resilient Coastlines Program (FRCP) to study the impacts of sea level rise on our community and to identify key recommendations for resilience planning. With the grant, the Florida Center for Community Design and Research will complete an analysis of current land use, zoning, and building regulations and recommend strategies to prepare for projected sea level rise impacts.

This webinar will inform community stakeholders of the project and of the potential implications. We have assembled a great list of local and national experts on sea level rise to support our efforts. The agenda is found on the next page and will include session on:

- The State of Sea Level Rise In Tampa Bay
- Why Should We Be Concerned?
- What Areas of the City are most at risk to Sea Level Rise?
- What can we learn from other communities?
- Regulatory options in response to Sea Level Rise

More information: tampa.gov/city-planning/sea-level-rise-study

AGENDA

Sea Level Rise In Tampa: A Policy Approach

January 12, 2021 9:00 AM – 12:30 PM

9:00 AM – 9:15 AM	Opening & Welcome	Whit Remer Tampa Sustainability and Resilience Officer
9:15 AM – 9:35 AM	State of Sea Level Rise Maya will present an overview of Sea Level Rise projections for the Tampa Bay region as recommended by the Tampa Bay Climate Science Advisory Panel.	Maya Burke Tampa Bay Estuary Program
9:35 AM – 9:55 AM	Why Should We Be Concerned? This session will provide a summary of the ways in which sea level rise will impact our community.	Forbes Tompkins The Pew Charitable Trusts
9:55 AM – 10:20 AM	Sea Level Rise In Tampa Maps of future sea level rise projections will be presented showing which areas of the city are at most risk and potentially when impacts might occur.	Brian Cook Florida Center of Community Design & Research
10:20 AM – 10:40 AM	Success Stories Andy will present lessons from Virginia, South Carolina and Louisiana as examples that could be pursued in Tampa.	Andy Sternad Waggoner and Ball
10:40 AM – 11:00 AM	Opportunities for Regulatory Response in Tampa Brian will discuss potential land use approaches and regulations that could help mitigate the potential impacts.	Brian Cook Florida Center of Community Design & Research
11:00 AM – 12:00 PM	Discussion Forum Industry leaders discuss what they've heard and provide insights into how to create a consensus. Chris Ahern, Applied Technology & Management Chris Zambito, Atkins Global Daniel Parsons, Atkins Global Heidi Stiller, NOAA Jake Cremer, Stearns Weaver Jennifer Motsinger, Tampa Bay Builders Association	Taryn Sabia, Moderator USF School of Architecture
12:00 PM – 12:30 PM	Questions & Next Steps	Randy Goers Director of City Planning

SPEAKERS AND PANELISTS

Sea Level Rise in Tampa: A Policy Approach

January 12, 2021 9:00 AM – 12:30 PM



Maya Burke, Tampa Bay Estuary Program

Maya is the Assistant Director of the Tampa Bay Estuary Program. She is responsible for strategic planning, grants management, and implementation reporting for the benefit of a healthy bay; she distills Tampa Bay-specific research for a broader audience; and facilitates working groups, including the Tampa Bay Nitrogen Management Consortium and the Tampa Bay Climate Science Advisory Panel. Maya has spent 15 years working in water resource management and environmental land use planning. Prior to working at the Tampa Bay Estuary Program, Maya worked for the Southwest Florida Water Management District and the Tampa Bay Regional Planning Council. She is a graduate of New College of Florida and a native Floridian.



Forbes Tompkins, The Pew Charitable Trust

Forbes manages the federal policy portfolio of Pew's flood-prepared communities initiative, which works to reform flood policy to better prepare people and property for future risks. In this role, he oversees the development of innovative policies that can make our nation's infrastructure more resilient to floods, reduce disaster damages, modernize the National Flood Insurance Program, and promote nature-based solutions. He also leads Pew's call on behalf of mayors, state legislators, and governors for the federal government to prioritize flood resilience as the United States works to modernize its crumbling infrastructure.

Before joining Pew, Tompkins was a research associate at the World Resources Institute, where he analyzed the effects of rising sea level and heavy precipitation on communities, local response efforts, and the need for national policy to mitigate damage. He also held positions at the Institute for Governance & Sustainable Development and on Capitol Hill as an environmental science and policy expert. Tompkins holds a bachelor's degree in meteorology from Florida State University and master's degrees in meteorology from the Florida Institute of Technology and energy policy and climate from Johns Hopkins University.



Brian Cook, MLA, ASLA, Florida Center for Community Design & Research

Brian is an assistant research professor in the Florida Center for Community Design and Research at the University of South Florida. He is also a registered landscape architect with 15 years of experience. As an educator, Brian has focused on landscape and urban design while teaching at the University of Colorado Boulder, University of Georgia and now at the University of South Florida. His work and research is focused on the site-specific nature of landscape as well as issues of coastal resiliency and infrastructure.



Andy Sternad, Waggonner and Ball

Andy is an architect and urban designer and a leader in Waggonner & Ball's resilience practice. He focuses on creating water design strategies at urban and building scales, seeking holistic solutions that reinforce character and addressing issues of climate, ecology, economy, and people. He is a graduate of Washington University in St. Louis and the Yale School of Architecture.

Andy was a key participant in the New Orleans Dutch Dialogues, Waggonner & Ball's novel collaboration between Dutch and American engineers, designers, and planners to re-envision the city's relationship to water after Hurricane Katrina that has since been refined and replicated in Virginia, Connecticut, Texas and South Carolina. Currently Andy manages the firm's work on the Isle de Jean Charles resettlement in Louisiana, a first-of-its-kind effort in the U.S. to relocate an entire coastal community. He also manages the firm's work in Charleston, analyzing land and water impacts for the City's comprehensive plan update and advising the City on the U.S. Army Corps of Engineers' study for storm surge protection.



Taryn Sabia, Florida Center for Community Design and Research

Taryn is Research Associate Professor and Director of the Florida Center for Community and Research at the University of South Florida's School of Architecture and Community Design. The Center provides design expertise, technical assistance, applied research, and community engagement services in Florida's growing communities to address urban challenges related to the built environment. Since 2014, she has overseen faculty, researchers, and graduate students to deliver the Center's mission to assist the citizens of Florida in Creating more livable and sustainable communities.

Taryn has advised over 30 mayors on sustainable development and has worked with elected bodies both nationally and internationally. Her professional work has spanned policy legislation for building and energy codes, urban transportation systems, implementation of CDBG, and resiliency and mitigation planning for Florida cities. Taryn has extensive experience building partnerships between community, organization, and government leaders. She serves on several national advisory committees.



Chris Ahern, Applied Technology and Management

Chris is an experienced Program and Project Manager on a variety of waterfront projects. He leads multi-discipline Project Teams to evaluate potential environmental impacts, perform feasibility studies, identify sustainable solutions to design challenges, execute permitting strategies, procure the necessary Contractors and ultimately deliver successful development projects. His experience is related to surface water quality, waterfront property or sites within 100 yards of a shoreline (i.e., beach, bulkhead or riverbank) and he regularly identifies opportunities to improve resilience of waterfront infrastructure. He recently led the \$21M redevelopment of Maximo Marina in St. Petersburg, FL.

As Development Manager, he was responsible for site assessments, feasibility studies, proformas, development strategy, procurement of Contractors, Construction Management, commissioning and handover to IGY Maximo Marina Operation Team. Chris' other significant waterfront development projects include reclaimed islands projects in Dubai, U.A.E. (i.e., Palm Jumeirah, Palm Jebel Ali and World Islands).



Jacob Cremer, Stearns Weaver

Jake counsels clients in their interactions with local, state, and federal governments on environmental, land use, and land development issues. He has been lead counsel on a variety of complex permitting and economic development matters. He excels in complicated matters requiring both environmental and land use permitting, including brownfield designations, urban redevelopment, and master-planned communities. He has extensive experience protecting environmental and land use permits against challenges, defending against government compliance and enforcement issues, and litigating property rights issues, including before the United States Supreme Court.

A sixth-generation Floridian, Jake grew up in Palatka working in his family's timber operations and has significant experience working with agriculture, silviculture, agribusiness, and heavy industry interests. Because of this personal experience, Jake routinely assists large agricultural landowners in defense of their greenbelt classifications and in asserting Right-to-Farm Act challenges to government overreach. He also assists them with long-term strategic planning for development entitlements and unlocking alternative income streams, including the use of wetland mitigation banks and conservation easements.

Jake began his law practice in Tallahassee, where he gained experience dealing with the legislative and regulatory process of state government. As a Gubernatorial Fellow at the Department of Community Affairs, he participated in executive-branch policymaking and developed relationships with state environmental and growth management regulators. This experience allows Jake to advise clients on whether permitting, litigation, or lobbying is the best approach for their needs.



Jennifer Motsinger, Tampa Bay Builders Association

Jennifer Motsinger is the Executive Vice President of the Tampa Bay Builders Association. Her role is to manage the day to day operations of the association and to be the voice of the building industry. The Tampa Bay Builders Association is one of the largest and influential trade organizations in the state of Florida representing members of the residential building community in Hillsborough, Pasco and Pinellas counties.

For over 20 years, Jennifer has worked through the governmental affairs process at all levels of and has experienced major changes in the planning and regulatory process. Her political roots go deep as she has worked in a variety of roles on numerous campaigns. Her experience includes working on national issues and presidential campaigns as well as state and local races. Jennifer helped to guide the TBBA's political activities working closely with candidates at all levels of government.

Jennifer is well respected and known throughout the Tampa Bay area and her leadership has led to many successes for the association as well as general improvement in public perception of the industry and better relationships with the media and regulatory community. She has served her on Hillsborough County's Economic Prosperity Committee, Tampa Economic Competitiveness Committee as well as Development Services Advisory Team, Pasco's School Infrastructure Task Force and is a member of the Urban Land Institute.



Chris Zambito, Atkins Global

Chris is a Sr. Project Manager working for the consulting firm Atkins, where he helps strengthen communities through resilience initiatives. He has over 20 years of private and public sector expertise in national hazards planning and is a Past Chair of the Florida Floodplain Managers Association. Most recently, his team worked with communities in the Tampa Bay area to complete the 5-year updates to both Pinellas and Hillsborough County's Local Mitigation Strategies, keeping the cities and counties eligible for disaster funding. These strategies were further tailored to help lower flood insurance premiums for policy holders via FEMA's complimentary program known as the Community Rating System. As a true Tampa native, he will never turn down a good Cuban sandwich!



Daniel Parsons, Atkins Global

Daniel is a Sr. Project Manager with 15 years of experience in water resource engineering and GIS-related projects, specifically watershed management plans. Mr. Parsons specializes in completing watershed management plans and applying state-of-the-art hydrologic and hydraulic models to analyze watersheds throughout Florida, using and developing methodologies and applications for GIS to efficiently analyze and develop data for these models. Mr. Parsons has successfully taken small and large projects from initial concept through final design. Daniel led the design of the recently completed Upper Peninsula Drainage Improvements for the City of Tampa.



Heidi Stiller, NOAA National Ocean Service

Heidi is the South Regional Director for NOAA's National Ocean Service (NOS) Office for Coastal Management (OCM), and she is based in St. Petersburg, Florida. Heidi serves as a focal point for senior level coastal partner interaction at the regional, state, and local levels from North Carolina around to Texas and including the Caribbean. She helps to implement national and regional statutory and other coastal and ocean programs, responds to the needs of users, partners and coastal decision-makers, and delivers technical assistance to meet coastal and ocean challenges.

Before joining NOAA, Heidi worked for the North Carolina Division of Emergency Management, and spent three years at the Florida Coastal Management Program. Planning that incorporates hazard mitigation, climate adaptation, and natural resource sustainability is a focus of Heidi's work, including providing data and tools to help communities address and communicate coastal inundation risks. She has experience with post-disaster recovery planning, and recently served as an author on the coastal chapter of the Fourth National Climate Assessment.

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Randy Goers

Subject: Prep for Sea Level Rise Forum
Location: Microsoft Teams Meeting

Start: Mon 1/4/2021 2:00 PM
End: Mon 1/4/2021 3:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Randy Goers
Required Attendees

Thank you for agreeing to be part of the Sea Level Rise Forum on January 12. We hope to have the other panelists selected in the next couple of days. More information will be coming shortly.

Thanks.

Randy

Microsoft Teams meeting

Join on your computer or mobile app

[Click here to join the meeting](#)



<https://www.tampagov.net/>

[Learn More](#) | [Help](#) | [Meeting options](#) | [Legal](#)

Randy Goers

From: Randy Goers
Sent: Monday, January 4, 2021 3:42 PM
To: 'Maya Burke'; 'Forbes Tompkins'; 'Cook, Brian'; Sabia, Taryn
Subject: Prep for January 12 Sea Level Rise Conference

Hello Everyone –

Thanks again for agreeing to present at our January 12 Sea Level Rise Conference. I will be adding you to the GotoWebinar as presenters, so that you'll be able to access the system for the webinar. Look for the confirmation email.

Please confirm if you're available for a short meeting **this Thursday morning at 9 AM** so we can test the GoToWebinar system.

Here's our schedule for the event. We've all been through many video meetings and conferences. Our objective is deliver short and direct sessions to keep viewers interest and create a upbeat tempo.

Opening & Welcome	9:00 AM
Session 1: State of Sea Level Rise 15 mins + 5 mins for questions	9:15 AM: Maya Burke, CSA
Session 2: Why Should We Be Concerned Trusts 15 mins + 5 mins for questions	9:35 AM: Forbes Thompkins, The Pew Charitable
Session 2: SLR in Tampa 20 mins + 5 mins for questions	9:55 AM: Brian Cook, FCCD&R
Session 4: Success Stories 15 mins + 5 mins for questions	10:20 AM:
Session 5: Challenges & Opportunities in Tampa 15 mins + 5 mins for questions	10:40 AM: Brian Cook, FCCD&R
Session 5a: Discussion / Forum 45 mins + 15 mins for questions	11:00 AM: Taryn Sabia, Moderator
Recap and Close	12:00 PM

Randy Goers

Director, City Planning Department
City of Tampa / 1400 North Boulevard/ Tampa, FL 33809
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Please note: This e-mail is public record.

Randy Goers

From: Randy Goers
Sent: Tuesday, January 5, 2021 10:03 AM
To: 'esherwood@tbep.org'; 'mburke@tbep.org'; 'dawn@aiatampabay.com'; 'tarynsabia@usf.edu'; 'tampabaychair@aslaflorida.org'; 'siobhan.okane@uli.org'; 'GarsysL@HillsboroughCounty.ORG'; 'CLEO Institute'; 'jenkinsm@epchc.org'; 'joel.brown@watermatters.org'; 'dave.kramer@watermatters.org'; 'rocky.milburn@florida.sierraclub.org'; 'phil.compton@sierraclub.org'; 'heidi.stiller@noaa.gov'; 'larnahan@co.pinellas.fl.us'; 'cjreynolds@tbrpc.org'; 'yeha@plancom.org'; 'jennifer@tbba.net'; 'sdrinkard@tampasdowntown.com'; 'lremund@tampasdowntown.com'; 'kulig@westshorealliance.org'; 'james.rodriguez.8.ctr@us.af.mil'; 'weisst@hillsboroughcounty.org'; 'morank@hillsboroughcounty.org'; 'walter@organizeflorida.org'; 'hhodde@pinellascounty.org'; 'cook@flhousing.org'; 'chiefj9@cox.net'
Cc: 'Cook, Brian'
Subject: Sea Level Rise In Tampa - Conference on Development Regulations
Attachments: JAN 12 Meeting Flyer 01.pdf

Good Morning.

Happy New Year. I wanted to make you and your organization aware of an upcoming webinar on Sea Level Rise in Tampa.

On January 12, the City of Tampa will host a 3 hour webinar on Sea Level Rise and the impact on development regulations. Using a grant provided by the Florida Department of Environmental Protection, the City is exploring how its land development regulations might be affected by rising seas. The webinar will cover the following topics and provide a road map for completing the project.

- The State of Sea Level Rise in Tampa
- Why Should We be Concerned?
- Projected Impacts on the City
- Success Stories from Other Communities
- Regulatory Challenges and Opportunities for Tampa
- Next Steps

Can you please forward this email and announcement to your members and interested staff. Attendees can register for the webinar at: <https://attendee.gotowebinar.com/register/6960501652163916044>

Agenda details, including our speakers and sessions will be released shortly.

If you have any questions, please contact me.

Thank you!

Randy

Randy Goers

Director, City Planning Department

City of Tampa / 1400 North Boulevard/ Tampa, FL 33809

p: (813) 274-8694 / randy.goers@tampagov.net

SEA-LEVEL RISE IN TAMPA: A POLICY APPROACH

FUNDED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

TUESDAY, JANUARY 12TH, 2021

9:00 A.M. - 12:30 P.M.

REGISTER ONLINE:

<https://register.gotowebinar.com/register/6960501652163916044>





Conference
Sea Level Rise In Tampa: A Policy Approach

Deliverable 2

Presentations



Conference
Sea Level Rise In Tampa: A Policy Approach

Webinar Opening & Introductions



**SEA-LEVEL RISE IN TAMPA:
A POLICY APPROACH**

FUNDED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

TUESDAY, JANUARY 12TH, 2021
9:00 A.M. - 12:30 P.M.

REGISTER ONLINE:
<https://register.gotowebinar.com/register/6960501652163>

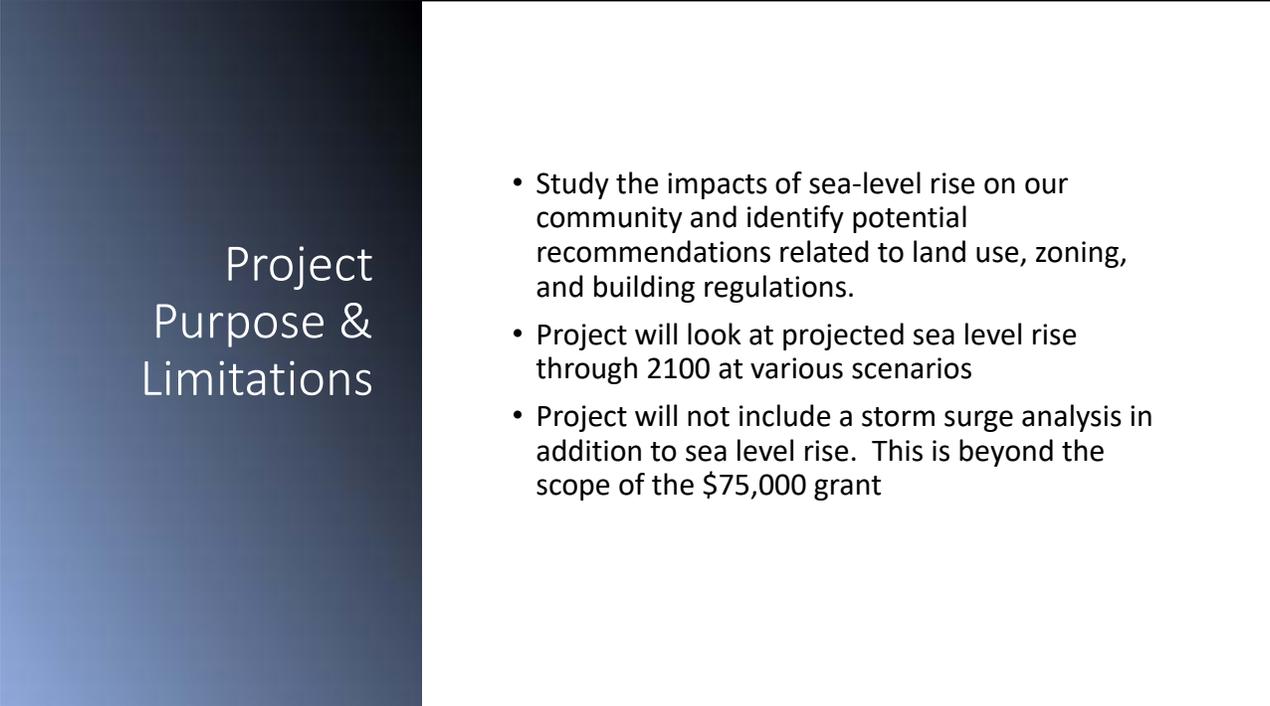
City of Tampa
Florida

City Planning

fccd+r
Florida Center for Community Design and Research

Welcome

1



Project Purpose & Limitations

- Study the impacts of sea-level rise on our community and identify potential recommendations related to land use, zoning, and building regulations.
- Project will look at projected sea level rise through 2100 at various scenarios
- Project will not include a storm surge analysis in addition to sea level rise. This is beyond the scope of the \$75,000 grant

2



Before We Begin ...

- We are recording this event for future play back
- Everyone should be on mute
- Designed to be concise, direct and up-tempo
- We will take 2-3 questions after each presentation
- A 30-minute Q&A session will conclude today's event
- Enter your comments or questions anytime in the questions window
- Leave comments on the Tampa City Planning website (Sea Level Rise Grant link)
- This is a new technology and there will be glitches.

3

Maya Burke Tampa Bay Estuary Program

State of Sea Level Rise

Maya is the Assistant Director of the Tampa Bay Estuary Program. She is responsible for strategic planning, grants management, and implementation reporting for the benefit of a healthy bay; she distills Tampa Bay-specific research for a broader audience; and facilitates working groups, including the Tampa Bay Nitrogen Management Consortium and the Tampa Bay Climate Science Advisory Panel.

Maya has spent 15 years working in water resource management and environmental land use planning. Prior to working at the Tampa Bay Estuary Program, Maya worked for the Southwest Florida Water Management District and the Tampa Bay Regional Planning Council. She is a graduate of New College of Florida and a native Floridian.



4

Forbes Tompkins, The Pew Charitable Trust

Why Should We Be Concerned?

Forbes manages the federal policy portfolio of Pew's flood-prepared communities initiative. In this role, he oversees the development of innovative policies that can make our nation's infrastructure more resilient to floods, reduce disaster damages, modernize the National Flood Insurance Program, and promote nature-based solutions.

Before joining Pew, Forbes was a research associate at the World Resources Institute, where he analyzed the effects of rising sea level and heavy precipitation on communities, local response efforts, and the need for national policy to mitigate damage. He holds a bachelor's degree in meteorology from Florida State University and master's degrees in meteorology from the Florida Institute of Technology and energy policy and climate from Johns Hopkins University.



5

Brian Cook, MLA, ASLA Florida Center for Community Design & Research

Sea Level Rise In Tampa Challenges and Opportunities in Tampa

Brian is an assistant research professor in the Florida Center for Community Design and Research at the University of South Florida. He is also a registered landscape architect with 15 years of experience. As an educator, Brian has focused on landscape and urban design while teaching at the University of Colorado Boulder, University of Georgia and now at the University of South Florida. His work and research is focused on the site-specific nature of landscape as well as issues of coastal resiliency and infrastructure.



6

Andy Sternad Waggoner and Ball

Success Stories

Andy is an architect and urban designer and a leader in Waggoner & Ball's resilience practice. He focuses on creating water design strategies at urban and building scales, seeking holistic solutions that reinforce character and addressing issues of climate, ecology, economy, and people. He is a graduate of Washington University in St. Louis and the Yale School of Architecture.

Andy was a key participant in the New Orleans Dutch Dialogues, which re-envisioned the city's relationship to water after Hurricane Katrina. This model has since been refined and replicated in Virginia, Connecticut, Texas and South Carolina. Andy currently manages the firm's work on the Isle de Jean Charles resettlement in Louisiana, a first-of-its-kind effort in the U.S. to relocate an entire coastal community. He also manages the firm's work in Charleston, analyzing land and water impacts and advising the City on the U.S. Army Corps of Engineers' study for storm surge protection.



7

Taryn Sabia Florida Center for Community Design & Research

Industry Forum

Taryn is Research Associate Professor and Director of the Florida Center for Community and Research at the University of South Florida's School of Architecture and Community Design. Since 2014, she has overseen faculty, researchers, and graduate students to deliver the Center's mission to assist the citizens of Florida in Creating more livable and sustainable communities.

Taryn has advised over 30 mayors on sustainable development and has worked with elected bodies both nationally and internationally. Her professional work spans policy legislation for building and energy codes, urban transportation systems, implementation of CDBG, and resiliency and mitigation planning for Florida cities. Taryn has extensive experience building partnerships between community, organization, and government leaders. She serves on several national advisory committees.



8

Industry Forum



Taryn Sabia
USF School of Architecture & Florida Center
for Community Design & Research



Chris Zambito
Adkins Global



Heidi Stiller
NOAA National Ocean Service



Jacob Cremer
Stearns Weaver



Daniel Parsons
Adkins Global



Chris Ahern
Applied Technology & Mgmt

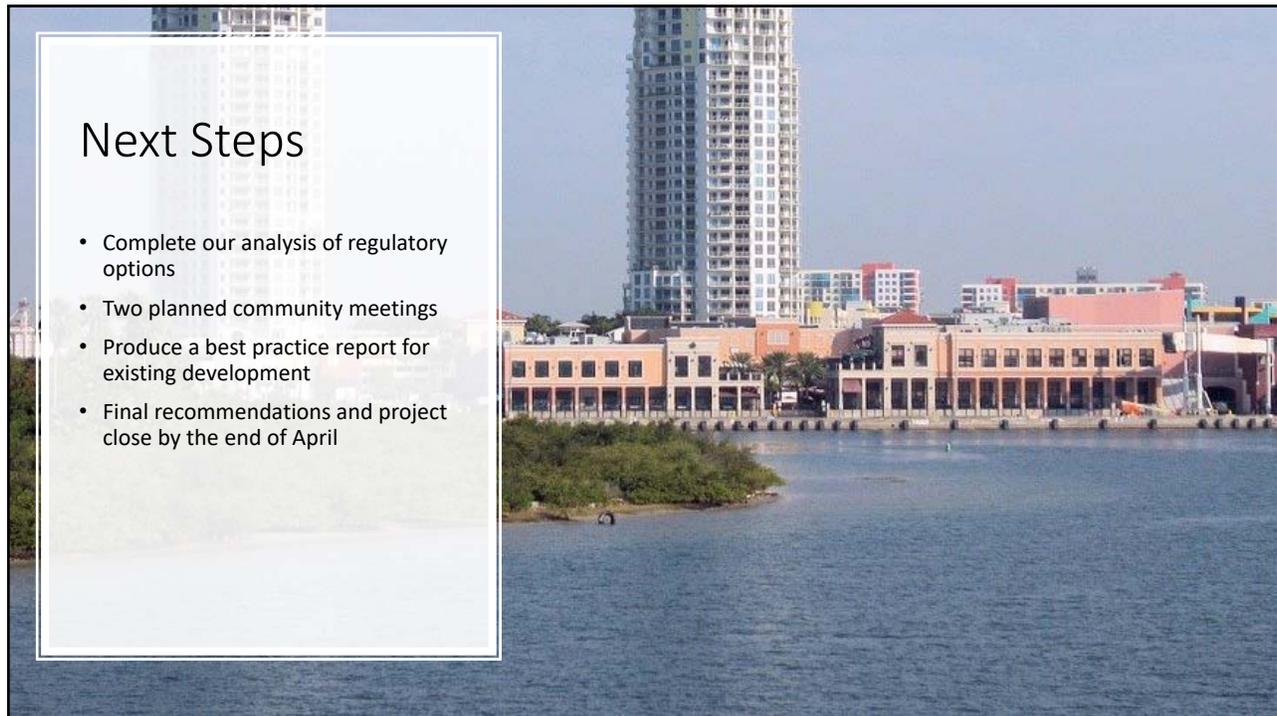


Jennifer Motsinger
Tampa Bay Builders Association

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Next Steps

- Complete our analysis of regulatory options
- Two planned community meetings
- Produce a best practice report for existing development
- Final recommendations and project close by the end of April

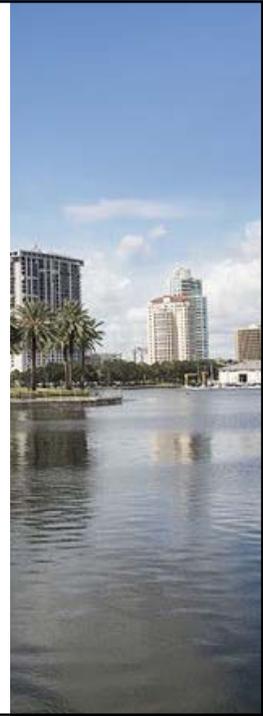


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Questions & Comments

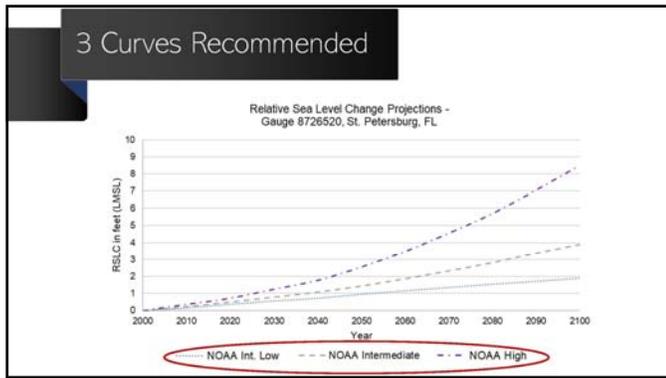
City Of Tampa Sea Level Rise Project



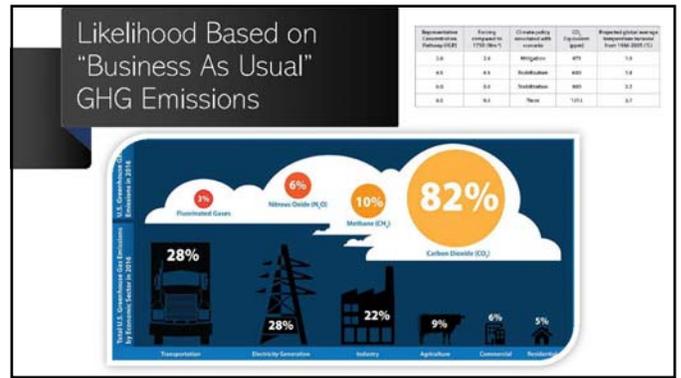


Conference
Sea Level Rise In Tampa: A Policy Approach

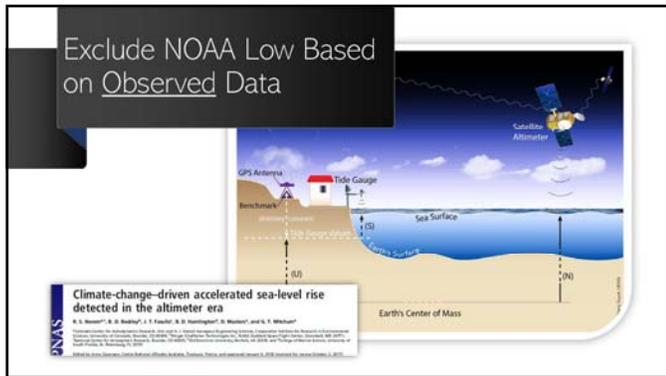
Maya Burke Presentation



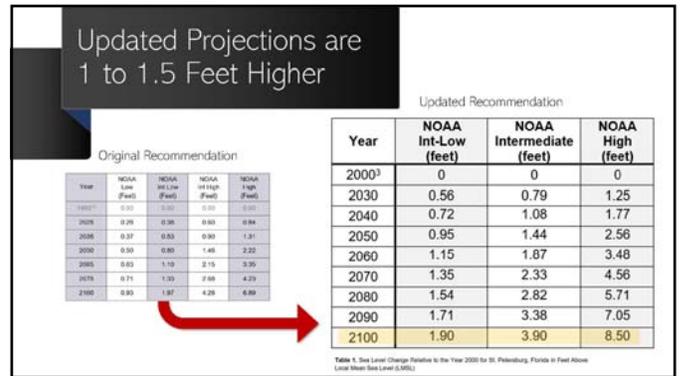
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4. Scenario-Based Adaptation Approach

- Location
- Project Life Cycle
- Risk Tolerance
- Cost
- Criticality of Function

11

Discussion?

Maya Burke
 727.893.2765
 mburke@tbep.org
 www.tbep.org

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Conference
Sea Level Rise In Tampa: A Policy Approach

Forbes Tomkins Presentation

Community Impacts of Sea Level Rise

Tampa Sea Level Rise Conference

January 12, 2021

Forbes Tompkins
Manager, Federal Policy
Flood-Prepared Communities

THE PEW CHARITABLE TRUSTS pewtrusts.org

1

DISASTER **INFRASTRUCTURE**

NATURE-BASED SOLUTIONS **FLOOD INSURANCE**

THE PEW CHARITABLE TRUSTS pewtrusts.org

2

Key Sea Level Rise Concerns

- Wide Range of Impacts
- Real Estate Devaluation
- Rising Insurance Rates
- Bond Ratings Implications

THE PEW CHARITABLE TRUSTS pewtrusts.org

3

Wide Range of Impacts

THE PEW CHARITABLE TRUSTS pewtrusts.org

4

Saltwater Intrusion

Fresh Water Aquifer

Salt Water

THE PEW CHARITABLE TRUSTS pewtrusts.org

5

Real Estate Devaluation

Greatest Losses in Relative Home Values
STATES RANKED BY TOTAL LOSS

RANK	STATE	LOSS	PERIOD
1	Florida	\$1.4 B	2005 - 2017
2	New Jersey	\$1.3 B	2005 - 2017
3	North York	\$1.3 B	2005 - 2017
4	South Carolina	\$1.1 B	2005 - 2017
5	Connecticut	\$10.2 B	2005 - 2017
6	North Carolina	\$10.2 B	2005 - 2017
7	Washington	\$10.2 B	2005 - 2017
8	Delaware	\$299.3 M	2005 - 2017
9	Virginia	\$280.3 M	2005 - 2017
10	Massachusetts	\$273.4 M	2005 - 2017
11	Mississippi	\$263.8 M	2005 - 2017
12	Alabama	\$175.8 M	2005 - 2017
13	Texas	\$176.4 M	2005 - 2017
14	Missou	\$169.3 M	2005 - 2017
15	Florida Island	\$147.7 M	2005 - 2017
16	Georgia	\$16.3 M	2005 - 2017
17	New Hampshire	\$15.2 M	2005 - 2017
18	Pennsylvania	\$10.1 M	2005 - 2017

THE PEW CHARITABLE TRUSTS pewtrusts.org

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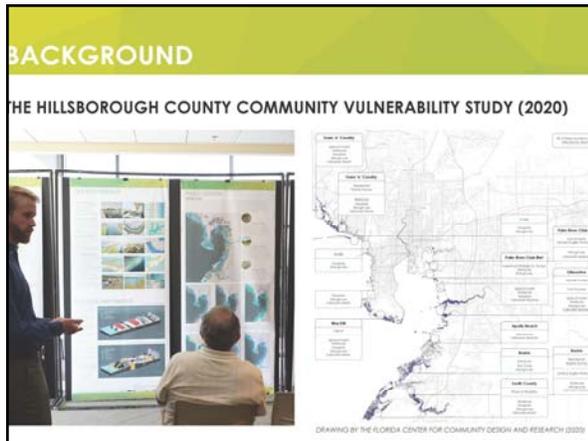
Brian Cook Presentation



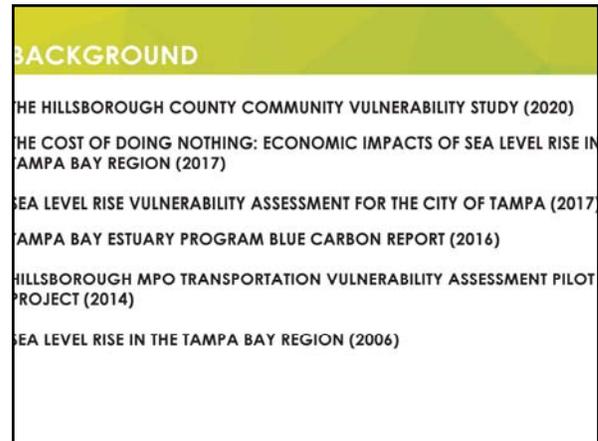
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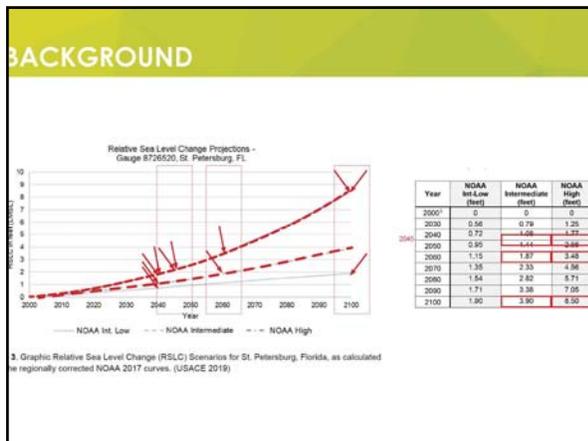
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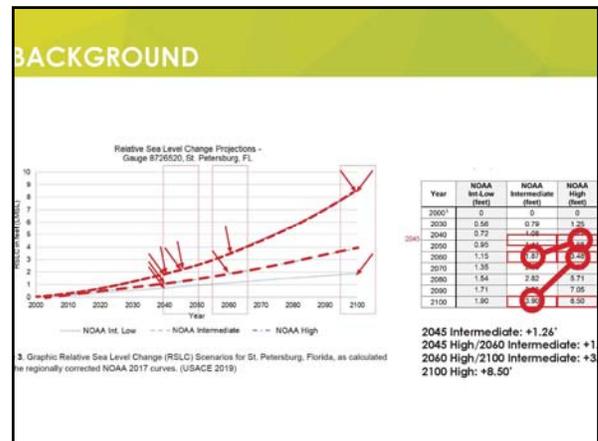
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SEA LEVEL RISE SCENARIOS IN TAMPA

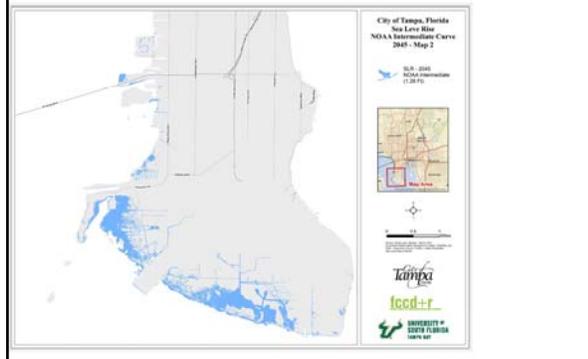
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SEA LEVEL RISE IN TAMPA



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SEA LEVEL RISE IN TAMPA



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SEA LEVEL RISE IN TAMPA



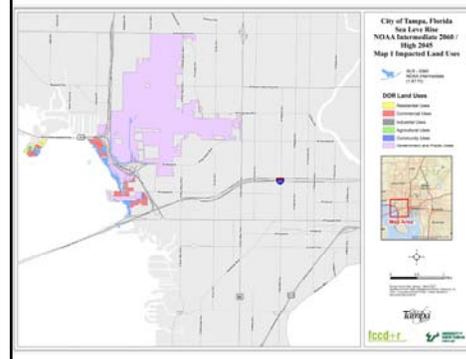
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SEA LEVEL RISE IN TAMPA



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SEA LEVEL RISE IN TAMPA



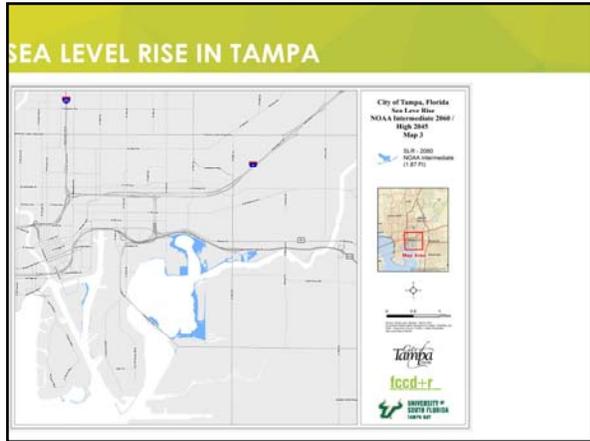
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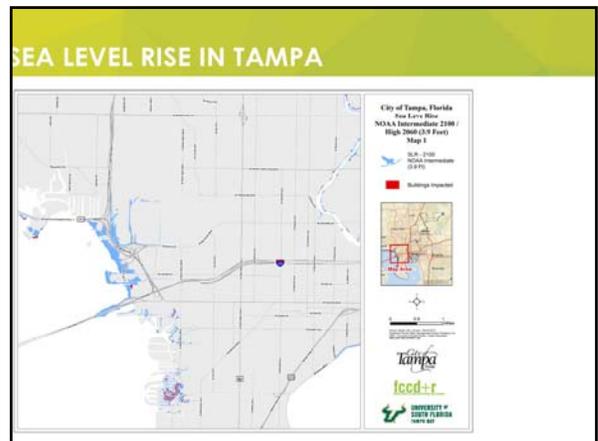
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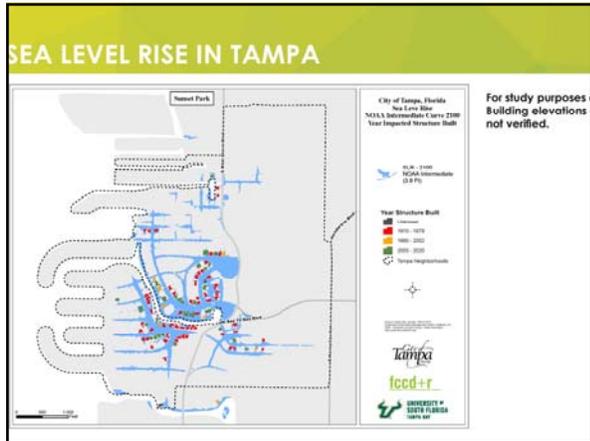
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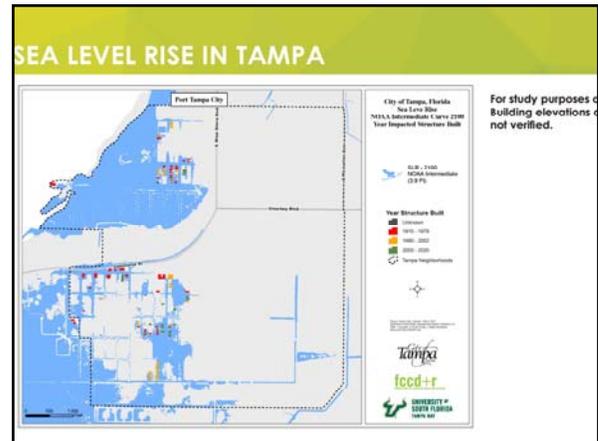
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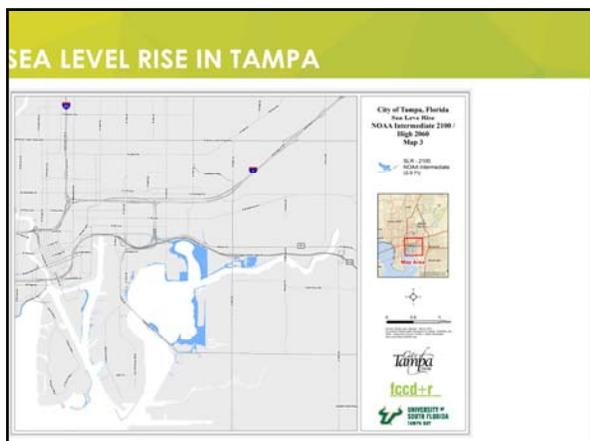
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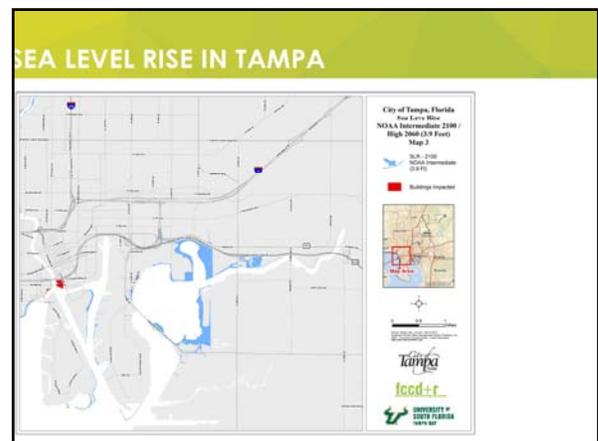
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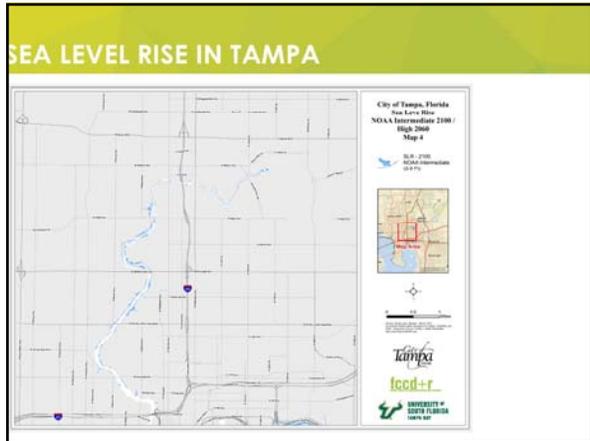
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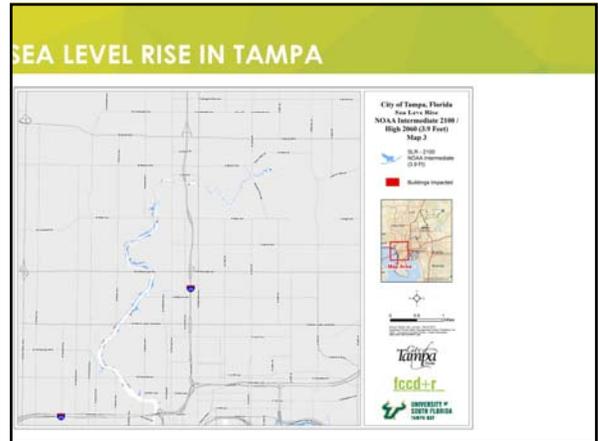
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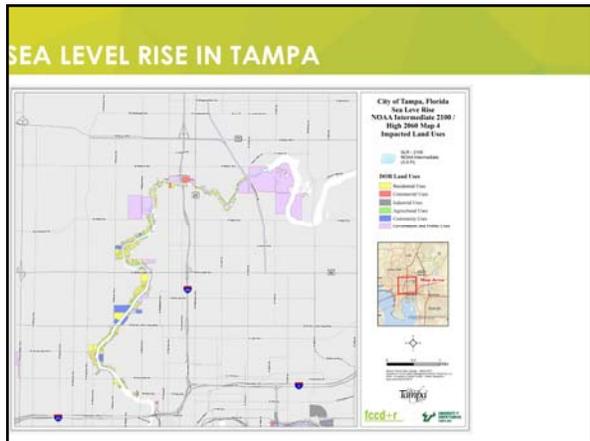
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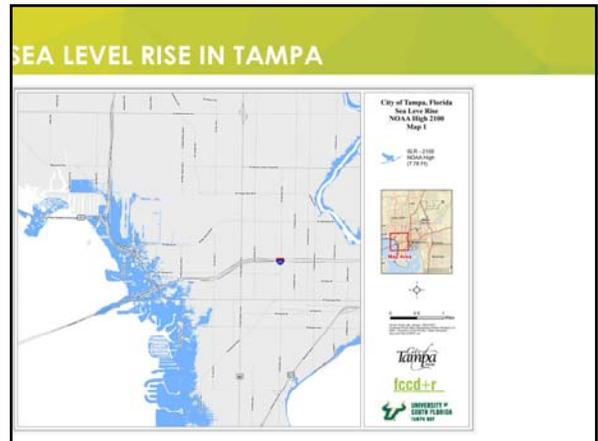
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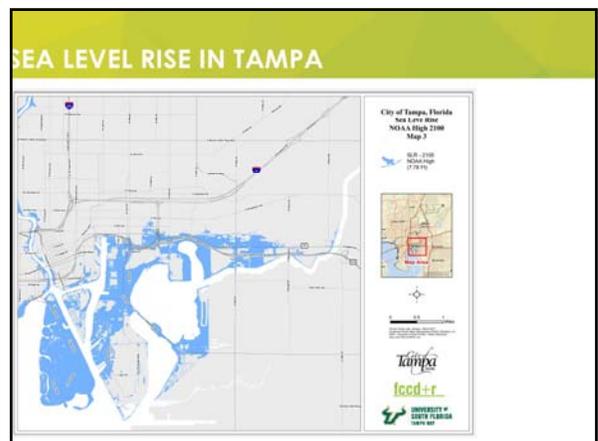
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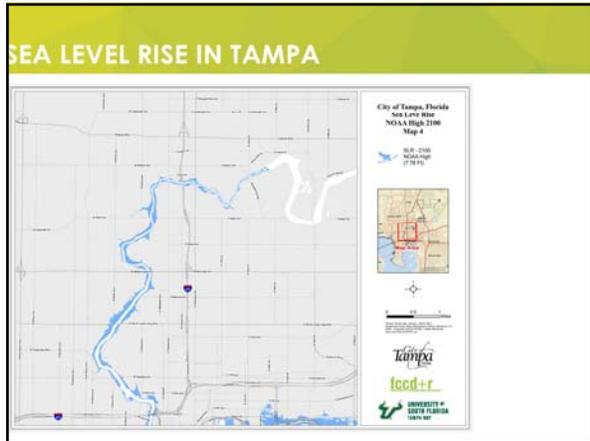
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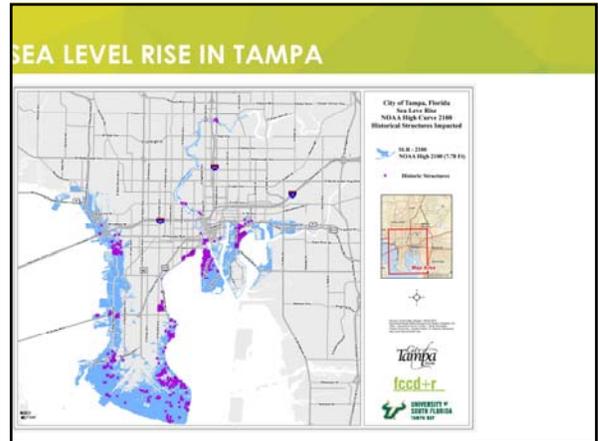
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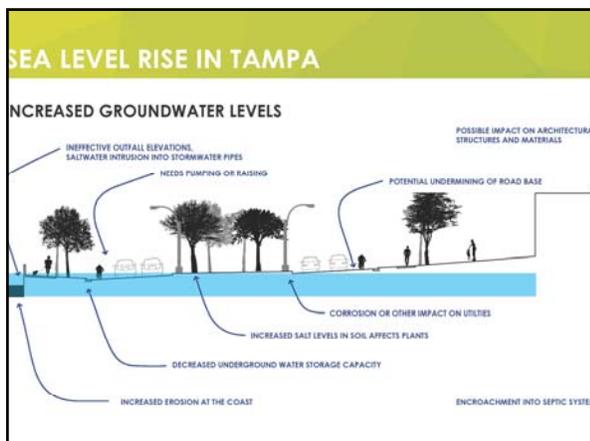
SEA LEVEL RISE IN TAMPA

OTHER BUILT ENVIRONMENT IMPACTS

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SEA LEVEL RISE IN TAMPA

ENVIRONMENTAL IMPACTS IN TAMPA BAY

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ENVIRONMENTAL

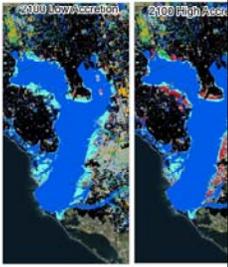
FROM THE TAMPA BAY BLUE CARBON ASSESSMENT (2016)

Structure will limit **habitat migration**

Coastal wetland, tidal flats, salt marsh and salt barrens are expected to experience the greatest loss

Mangrove habitat acreage is expected to increase, or could possibly be eliminated with other coastal wetlands

Seagrasses are extremely important to the overall ecology of Tampa Bay and understanding their response to sea-level rise is critical to developing future habitat management strategies



2050 Low Sea Rise 2050 High Sea Rise

Tampa Bay Blue Carbon

Download Link Wetland Productivity Wetland Resilience Wetland Loss

Download Link Mangrove Habitat Seagrass Habitat Seagrass Loss

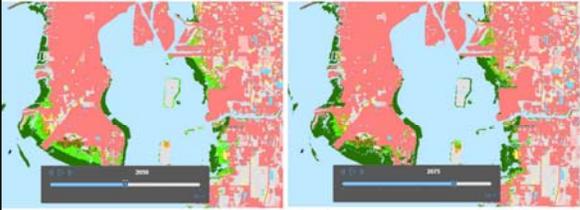
Download Link Mangroves Seagrasses High Salinity

Modelled Tampa Bay Under Two Different

37

ENVIRONMENTAL

FROM THE TAMPA BAY SEA LEVEL RISE AND HABITAT PROJECTIONS VIEWER (TAMPA BAY ESTUARY PROGRAM)



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SEA LEVEL RISE IN TAMPA

SOCIAL IMPACTS

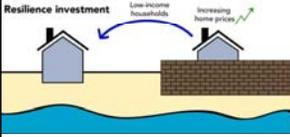
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SOCIAL

EXAMPLES OF CLIMATE GENTRIFICATION FROM RISING SEAS

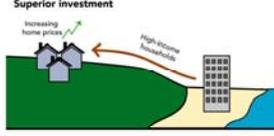
<http://slrn.hms.harvard.edu/flash/2019/1/04/climate-newest-gentrifying-force-effects-ready-re-shaping-cities/>

Resilience investment



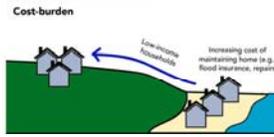
Low-income households Increasing home prices

Superior investment



Increasing home prices High-income households

Cost-burden



Low-income households Increasing cost of maintaining home (e.g., flood insurance, repairs)

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SEA LEVEL RISE IN TAMPA



fcd+r
Florida Coastal Development Research



saed
School of Advanced and Emerging Design



UNIVERSITY OF SOUTH FLORIDA

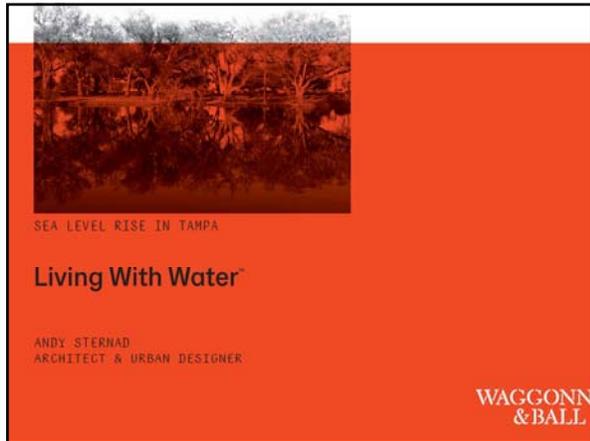
BRIANRAYCOOK@USF.EDU

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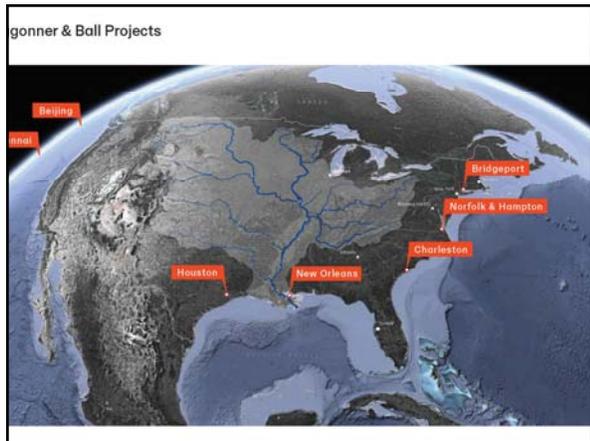
Andy Sternad Presentation



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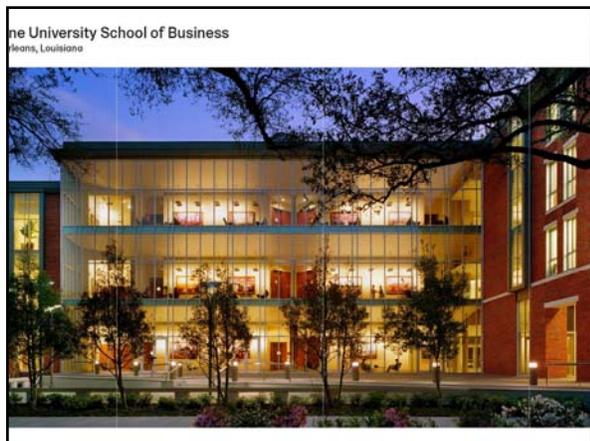
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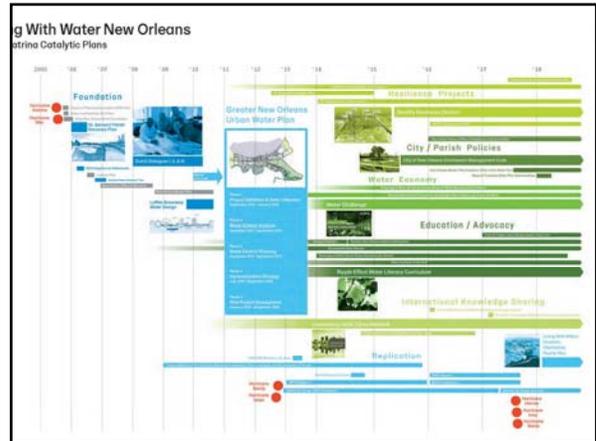
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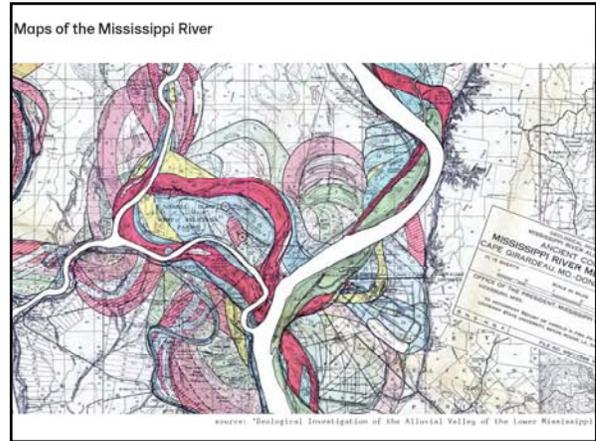
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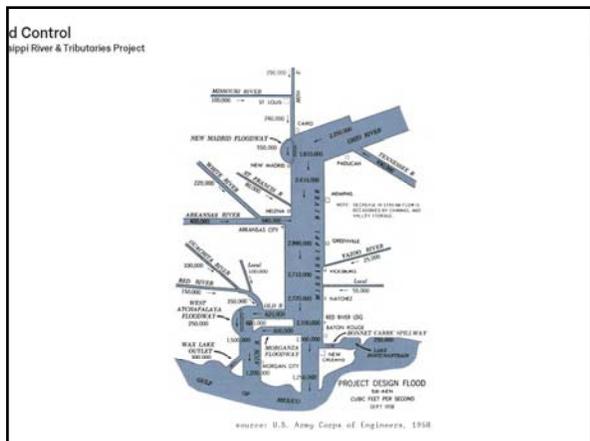
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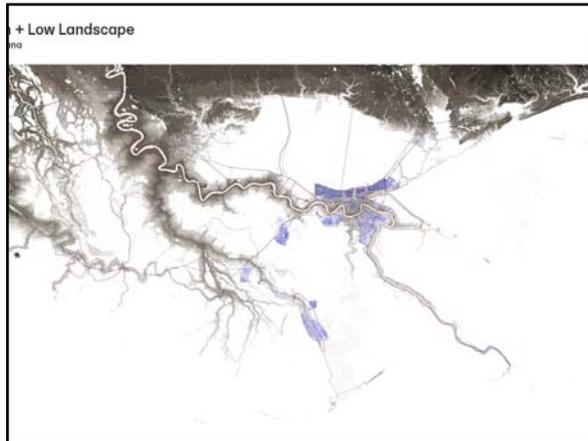
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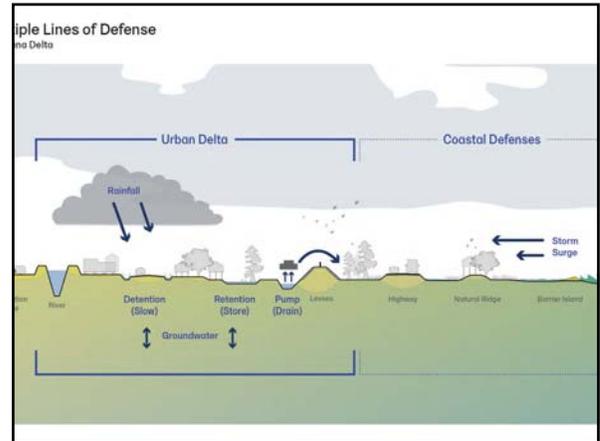
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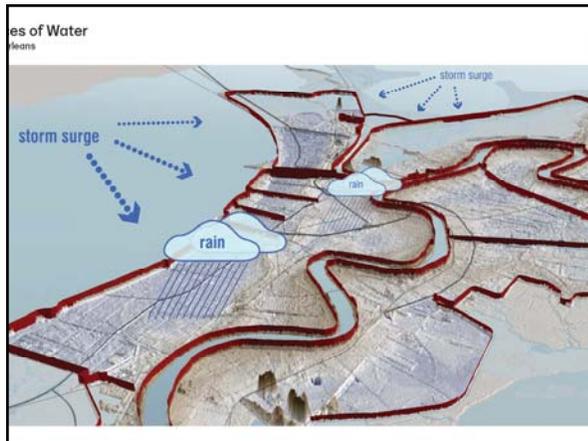
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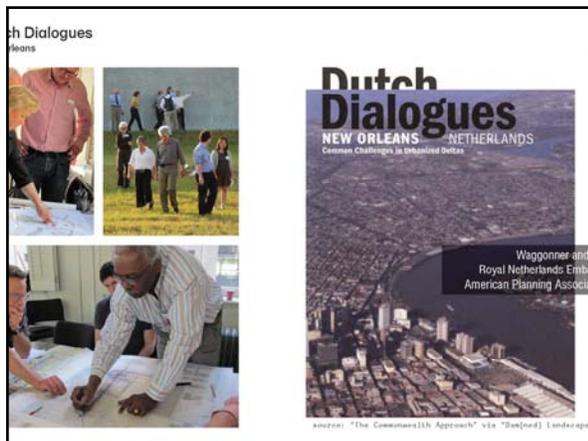
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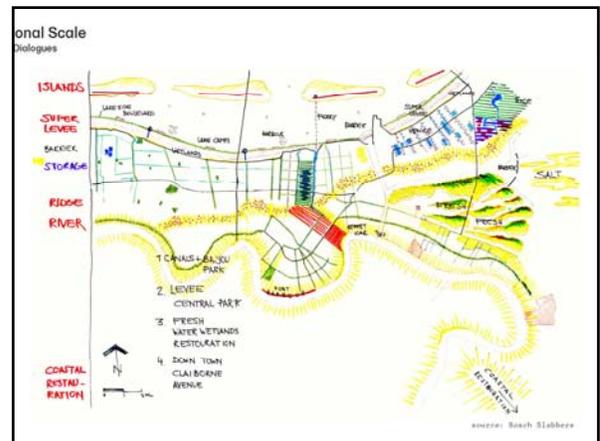
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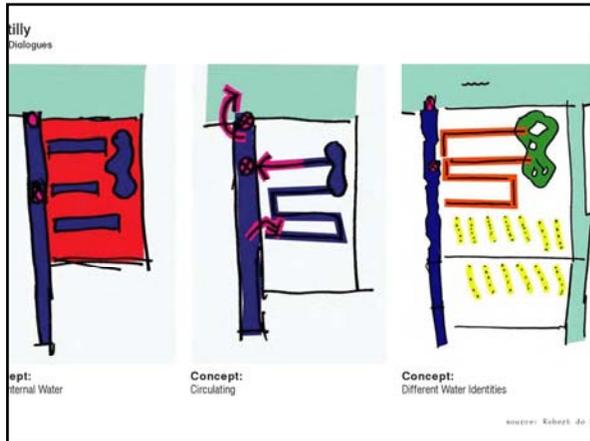
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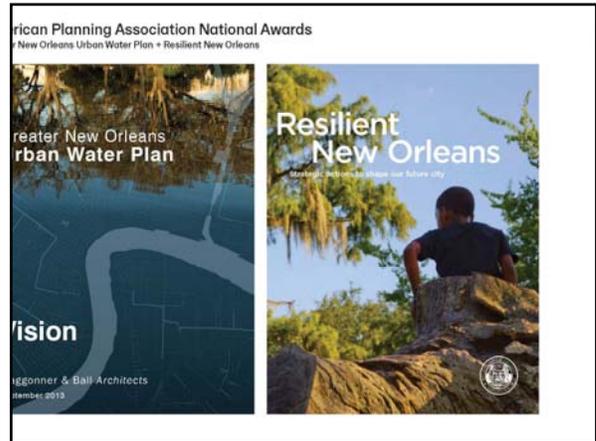
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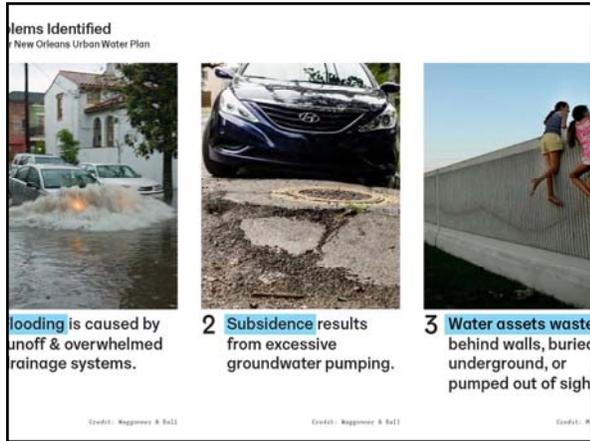
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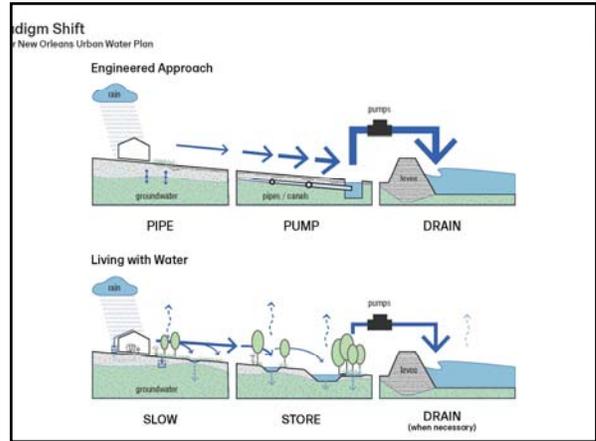
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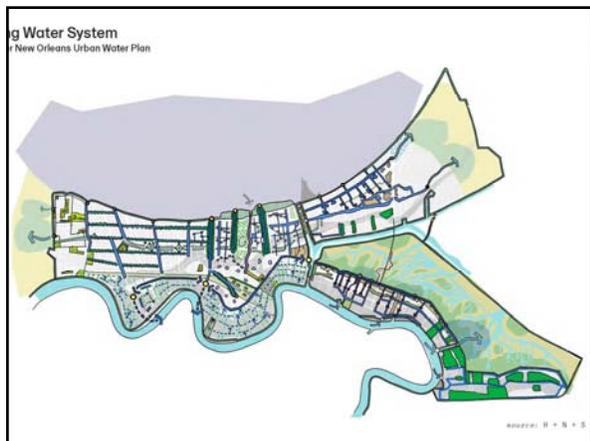
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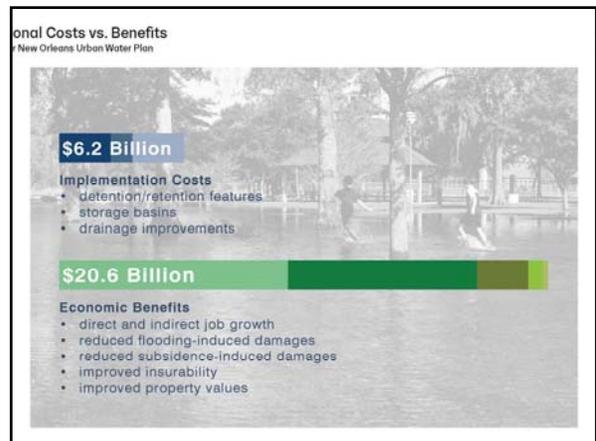
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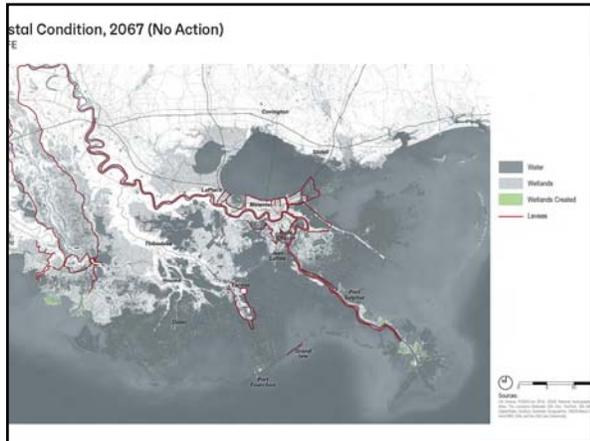
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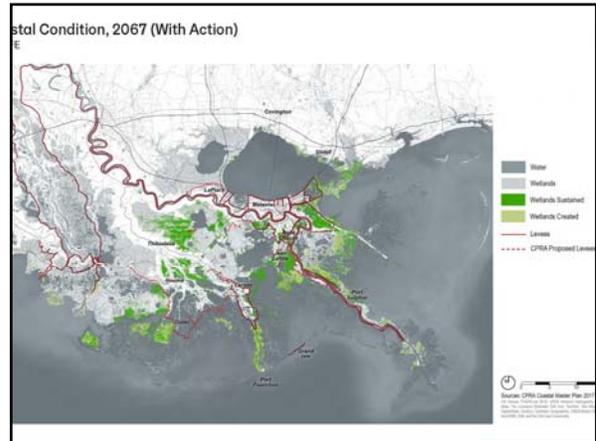
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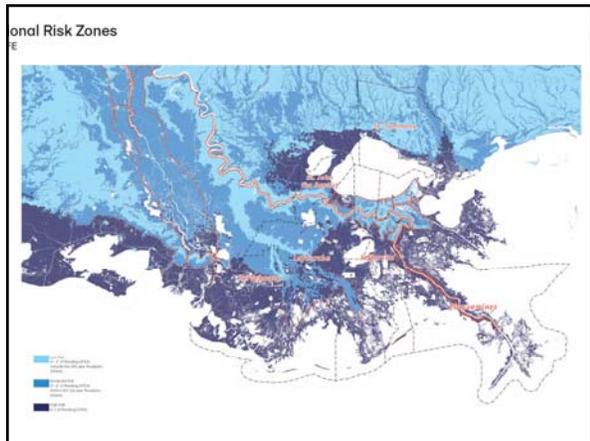
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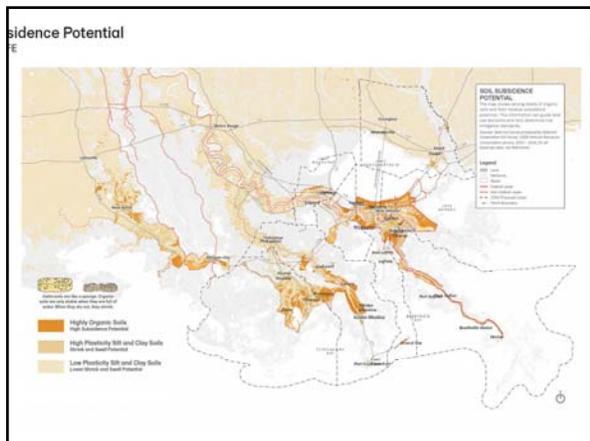


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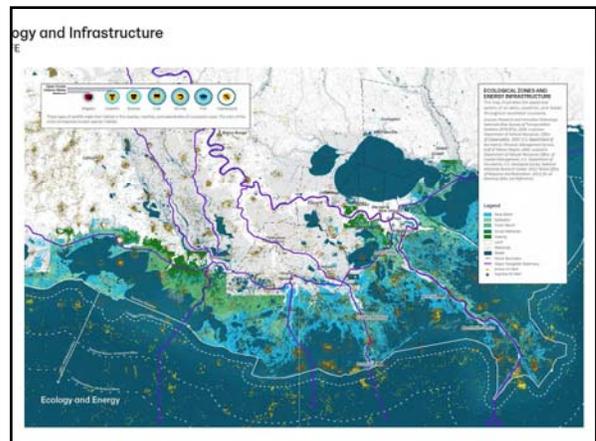
Near Vision by Risk Zone

<p>Low Risk 1-2' projected flood depths</p> <p>Develop New Growth Corridors and Centers</p> <p>These areas have development opportunities to populations and economic activity from flood-prone environments.</p>	<p>Moderate Risk 3-5' projected flood depths Within the 100-year floodplain</p> <p>Protect Assets and Establish Resilient Neighborhoods</p> <p>Areas conducive to maintaining current population levels and economic trends provided such communities orient future development and mitigation activities in alignment with future flood risk projections.</p>	<p>High Risk 6+ projected flood depths</p> <p>Enhance Economic Engines and Adapt to Rising Waters</p> <p>Areas that can expect to experience population decline and economic losses, up to and including full community-scale resettlement, as environmental conditions deteriorate and repetitive severe flood events take place.</p>
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Adaptation Goals & Strategies

-  **Goal 1: Manage Flooding and Subsidence**
-  **Goal 2: Direct Growth to Low Risk Areas**
-  **Goal 3: Improve Mobility throughout the Parish and Region**
-  **Goal 4: Strengthen and Diversify Local Economies**
-  **Goal 5: Protect and Promote Historic and Cultural Assets**

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Regional & Parish Adaptation Strategies



LAsAFE.la.gov

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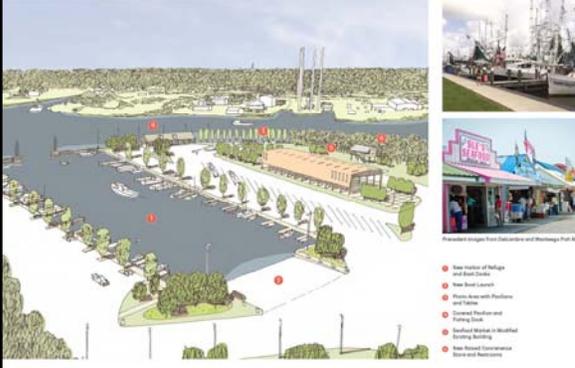
Future Vision
E. Terrebonne Parish



- Development**
 - Transportation
 - Levee
 - Flood Control Structure
 - Industrial Activity
 - Hardscape Retrofit
 - Stormwater Management
- Land**
 - High Ground (Low Flood Risk)
 - Intermediate Ground
 - Low Ground (High Flood Risk)
- Water**
 - Fresh Water
 - Salt/Brackish Water
 - Former Wetlands

39

Bayou Seafood Market & Harbor of Refuge
E. Terrebonne Parish

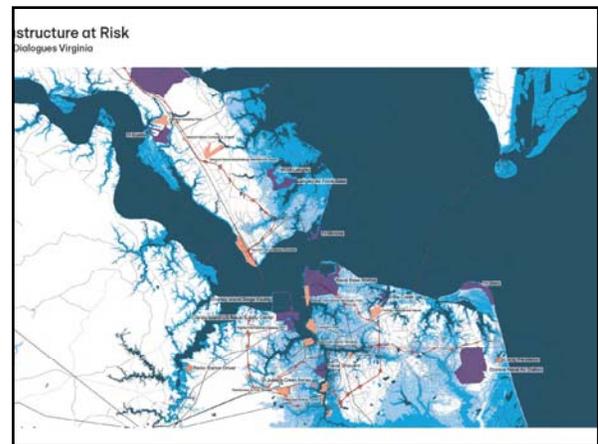


- Bayou Market & Harbor of Refuge
- Waterfront Levee
- Marina with Piers and Boat Lifts
- Shrimp Processing and Packing Plant
- Seafood Market & Modified Existing Building
- Bayou Market Development Area and Access

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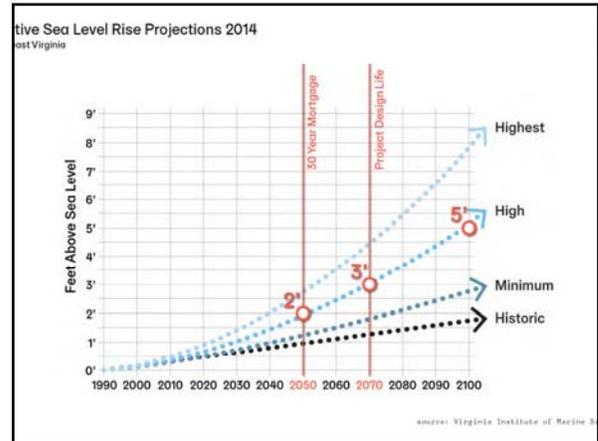
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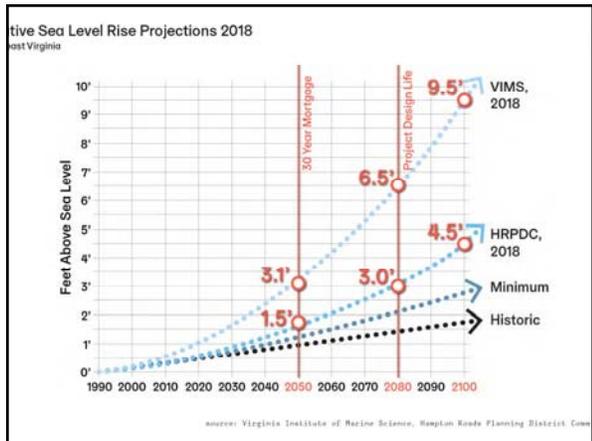
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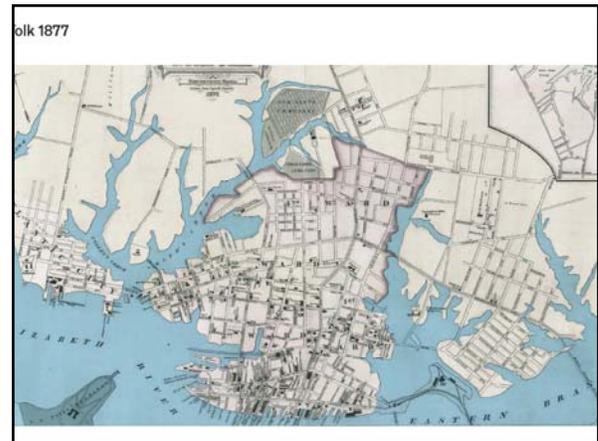
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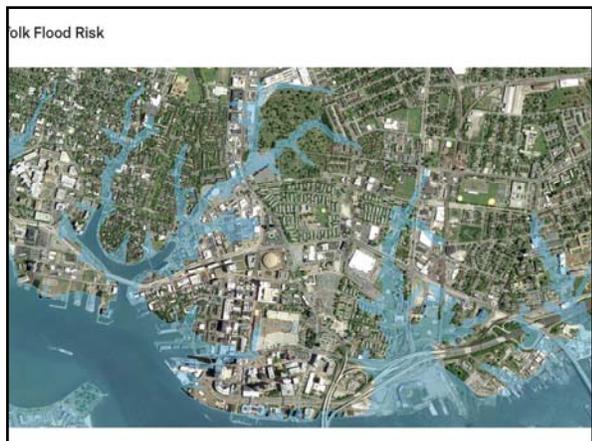
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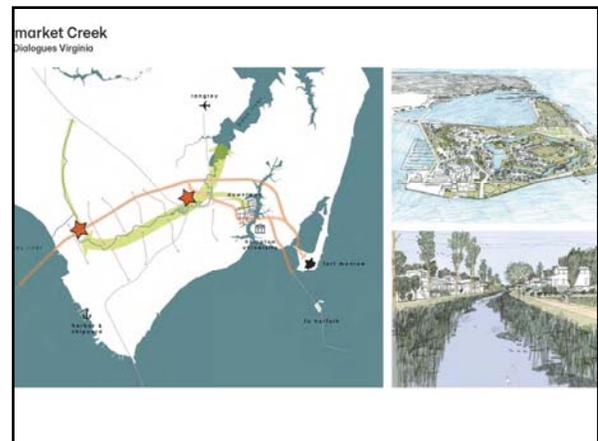
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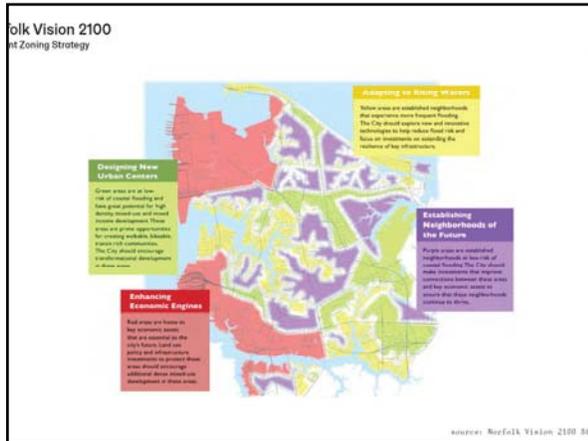
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Hampton EIB

Press Release
December 3, 2020

City of Hampton Fights Flooding with Issuance of Virginia's First Environmental Impact Bond

Hampton to Undertake Three Major Flood Resilience Projects with \$12 Million in Innovative Outcome-Based Financing

Media Contact:
Matt Lindsay, mlindsay@quantifiedventures.com, 202.425.1792

High-Resolution project renderings and a recording of the December 3 online press event are available at this link:
[Read the MSRB Issue Detail and Bond Official Statement.](#)

Lake Hampton, credit: Waggonner&Ball
Big Bottom Swamp, credit: Waggonner&Ball
North Arm Road, credit: Waggonner&Ball

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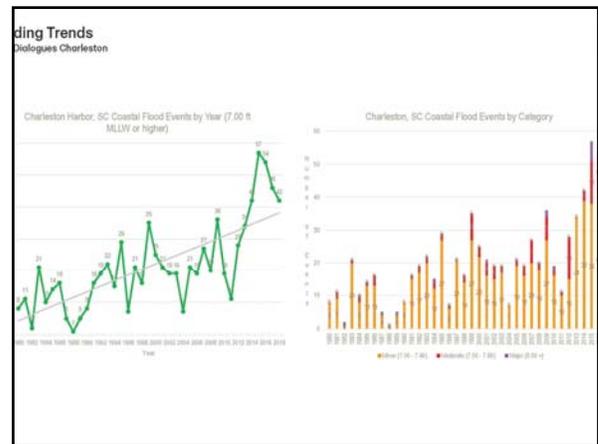
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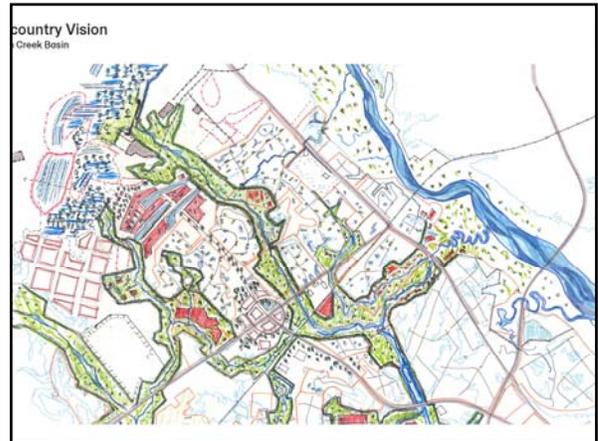
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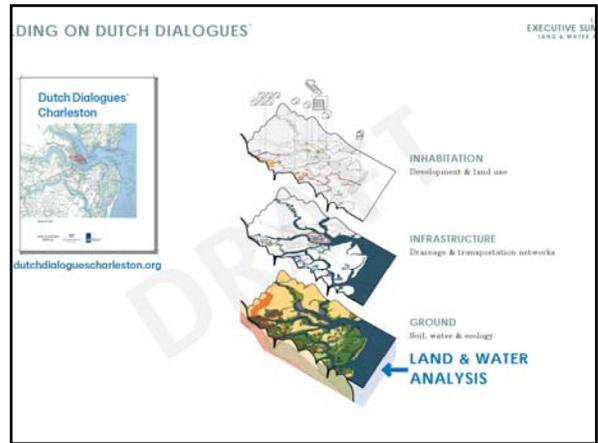
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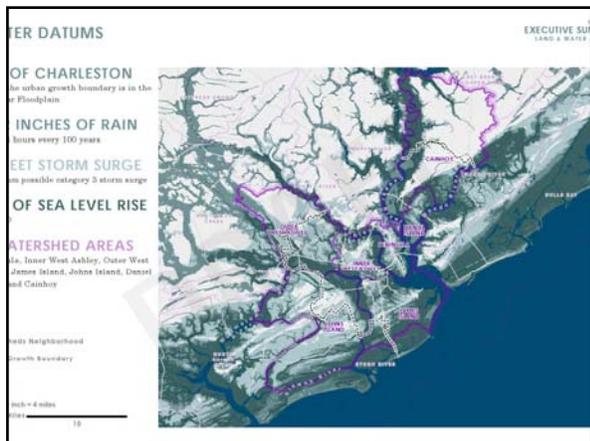
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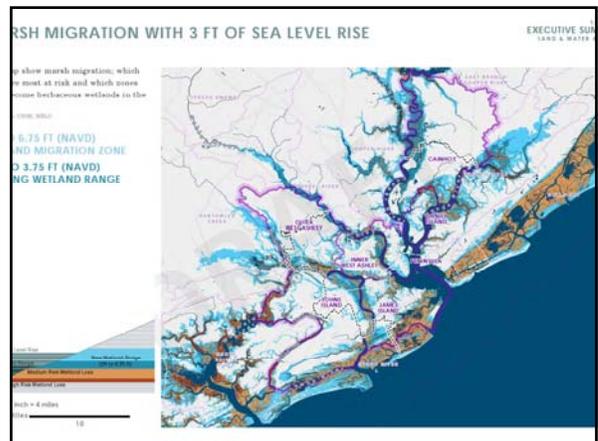
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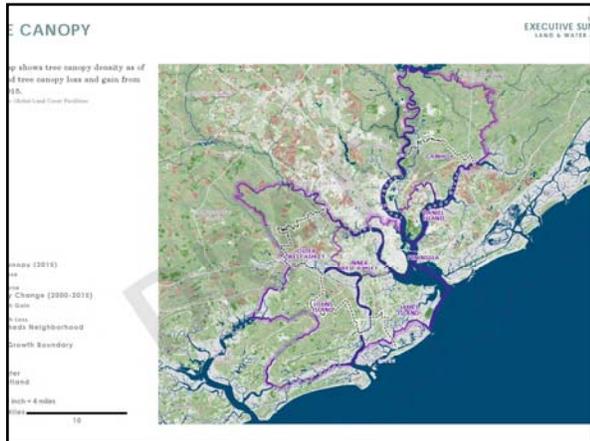
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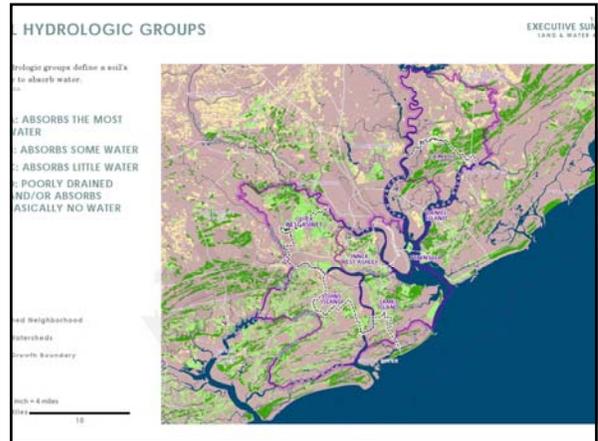
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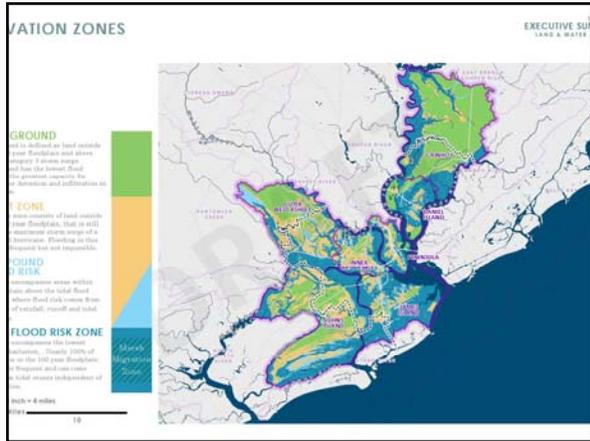
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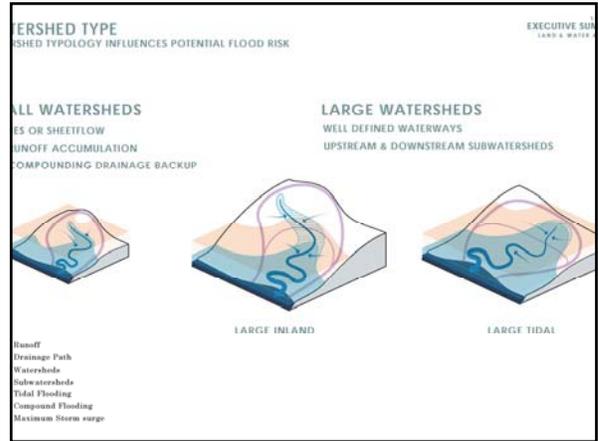
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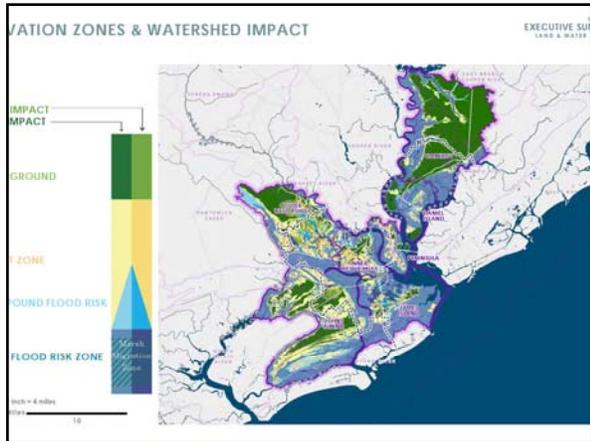
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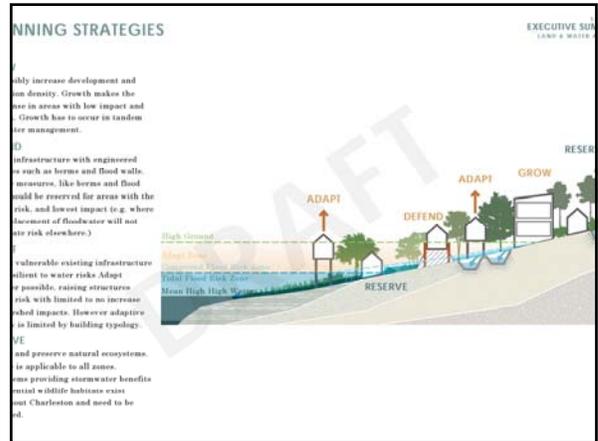
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PLANNING STRATEGIES

	Tidal Flood Risk Zone		Compound Flood Risk		Adapt Zone		High Ground	
	High Impact	Low Impact	High Impact	Low Impact	High Impact	Low Impact	High Impact	Low Impact
GROW					☉	☉	☉	●
DEFEND	☉	●	☉					
ADAPT	☉	☉	☉	☉	☉	☉		
RESERVE	●	●	●	☉	●	☉	☉	☉

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Ripple Effect
Literacy Program

Ripple Effect ABOUT PROCESS NEW ORLEANS IMPACT FOUNDATIONS TEAM CONTACT

Water literacy begins with our youngest citizens.

EC

● ● ● ●

Vision
We envision a future where all citizens have the knowledge and capability they need to strengthen their communities and live with water to its best advantage, change and sea level rise.

Mission
Ripple Effect prepares our youngest citizens to be tomorrow's environmental leaders by providing environmental education through place-based teaching, learning, research, and design.

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Conference
Sea Level Rise In Tampa: A Policy Approach

Brian Cook Presentation

OPPORTUNITIES FOR REGULATORY RESPONSE

BRIANRAYCOOK@USF.EDU



1

REGULATORY RESPONSE

RECAP OF ISSUES IN TAMPA (TOP 5?)

- 1 Open space and government land primarily impacted in near-fut
- 1 Clustered private lands impacted
- 1 Problems with hardened shorelines and habitat migration
- 1 Subsurface hydrology issues
- 1 Increased flooding hazard and flood insurance

2

REGULATORY RESPONSE



HOW ARE OTHER PLACES APPROACHING THE ISSUES OF SEA LEVEL RISE (THROUGH POLICY)?

FROM COASTAL RESILIENCE SOLUTIONS FOR EAST BOSTON AND CHARLESTOWN

3

REGULATORY RESPONSE

WHAT STRATEGIES ARE ALREADY IN PLACE?

4

REGULATORY RESPONSE

REGULATORY DOCUMENTS

- 1 The Comprehensive Plan
- 1 The Code of Ordinances, mostly Building + Land Development Co
- 1 Stormwater Technical Standards Manual, for Public and Private
- 1 Local Building Code Amendments
- 1 The Transportation Technical Manual
- 1 The Local Mitigation Strategy
- 1 The Post-Disaster Redevelopment Plan
- 1 The Environmental Protection Commission in Hillsborough County
- 1 Regional Water Management District policies and guidelines

1 Also, in Florida, Statewide mandates such as those found under Chapter 163, Intergovernmental Programs, which regulates policy su
bs Peril of Flood

5

REGULATORY RESPONSE

EXAMPLES

6

REGULATORY RESPONSE

COMMIT TO PLANNING AND PERMITTING TOWARD FUTURE SEA-LEVEL AND GROUNDWATER HEIGHT SCENARIOS (COMPREHENSIVE PLAN)

- Guarantee life-expectancy of projects
- Reduce risk for future tax payers

CONSIDER SECONDARY IMPACTS OF SEA-LEVEL RISE (COMPREHENSIVE PLAN)

- Hurricane storm surge and drainage issues are will be increased
- In addition to the impact to property and structures, there are environmental and social issues to address

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REGULATORY RESPONSE

MAPPING AND INVENTORY OF SUSCEPTIBLE INFRASTRUCTURE (COMPREHENSIVE PLAN)

- Publicly owned utilities, infrastructures and buildings
- Coastal shoreline protection

8

REGULATORY RESPONSE

MAPPING AND INVENTORY OF SUSCEPTIBLE INFRASTRUCTURE (COMPREHENSIVE PLAN)

- Publicly owned utilities, infrastructures and buildings
- Coastal shoreline protection



IMAGE FROM CITY OF TAMPA SEA LEVEL RISE VULNERABILITY ANALYSIS AND RESILIENCY STRATEGY REPORT
[HTTPS://WWW.TAMPA.GOV/SPECIAL-PUBS/SEA-LEVEL-RISE-VULNERABILITY-ANALYSIS-AND-RESILIENCY-STRATEGY-REPORT](https://www.tampa.gov/special-pubs/sea-level-rise-vulnerability-analysis-and-resiliency-strategy-report)

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REGULATORY RESPONSE

DEVELOP FLEXIBLE COASTLINE SPACE (COMPREHENSIVE PLAN)

- Allows for habitat migration
- Reduces wave action and erosion
- Allows for adaptation depending on future scenarios
- Equity of coastal access
- Value to adjacent properties



DRAWINGS FROM COASTAL RESILIENCE SOLUTIONS FOR EAST BOSTON AND CHAN...

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REGULATORY RESPONSE

DEVELOP FLEXIBLE COASTLINE SPACE (COMPREHENSIVE PLAN)



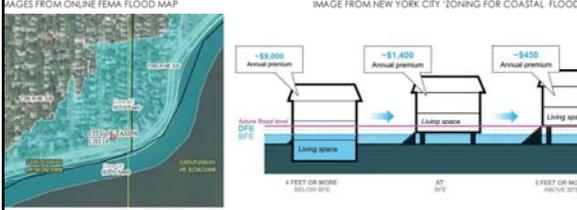
IMAGES OF HUNTER POINT SOUTH

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REGULATORY RESPONSE

CREATE OVERLAY ZONES (LAND DEVELOPMENT CODE, COMPREHENSIVE PLAN)

- Existing: FEMA Flood Insurance Rate Map zones
- Zones V, A, Coastal A (also a velocity zone), X



IMAGES FROM ONLINE FEMA FLOOD MAP

IMAGE FROM NEW YORK CITY 'ZONING FOR COASTAL FLOOD RISK'

Flood Zone	Annual Premium
Living space (4 feet or more below BFE)	~\$1,000
Living space (at BFE)	~\$1,400
Living space (3 feet or more above BFE)	~\$400

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REGULATORY RESPONSE

CREATE OVERLAY ZONES [COMPREHENSIVE PLAN]

Norfolk divided the city into 4 planning zones

High	Design New Urban Centers Green areas are at low-risk of flooding and have potential for high density, mixed-use, and walkable neighborhoods. The City should encourage transformational development in these areas.	Enhancing Economic Engines Red areas have key economic assets essential to the city's future. Major investment structural protection projects in these areas should encourage additional dense mixed-use development in these areas.
Present/Future Assets	Establishing Neighborhoods of the Future Purple areas are established neighborhoods at less-risk of flooding. The City should make investments that improve connections between these areas and less economic assets to ensure that the neighborhoods thrive.	Adapting to Rising Waters Yellow areas are established neighborhoods that experience more frequent flooding. Development is to gradually retreat from shorelines via housing buyouts, and maintaining but not expanding key sewer and water utilities, and roads.
Low	Flooding Risk	
	High	

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REGULATORY RESPONSE

CREATE OVERLAY ZONES [LAND DEVELOPMENT CODE, COMPREHENSIVE PLAN]

from Thomas Ankersen, University of Florida (and others)
https://www.law.ufl.edu/_pdf/academics/centers-clinics/clinics/conservation/sea_level_ris

- 1 A Protection Zone
- 1 An Accommodation Zone
- 1 A Managed Relocation Zone

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REGULATORY RESPONSE

CREATE OVERLAY ZONES [LAND DEVELOPMENT CODE, COMPREHENSIVE PLAN]

Can associate other stipulations, tax incentives, funding sources or disclosure policies with agreed upon planning and land development overlay zone

USES:
YEAR 2100 HIGH SCENARIO (66") PLUS 1% FLOOD EVENT (42") FOR A TOTAL OF 108" ABOVE TODAY'S AVERAGE HIGH

IMAGE FROM SAN FRANCISCO PLANNING
[HTTPS://SFPLANNING.ORG/SEA-LEVEL-RISE-ACTION-PLAN/VULNERABILITY](https://sfplanning.org/sea-level-rise-action-plan/vulnerability)

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REGULATORY RESPONSE

IN TAMPA, WE CURRENTLY HAVE:

- 1 5 Planning Districts (Central Tampa, Westshore, University, New Tampa and South Tampa)
- 1 Zoning Districts (Single Family, Commercial, Office...)
- 1 Special Zoning Districts (Municipal Airport, Ybor City...)
- 1 Overlays (In the Central Business District there is a Waterfront Overlay and the Riverwalk Overlay...)
- 1 Flood Overlays (The Coastal High Hazard Zone, Redlined Property...)
- 1 Community Redevelopment Areas (CRAs, such as Central Park, D Park, East Tampa...)

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REGULATORY RESPONSE

CONSIDER BUILDING HEIGHT (BOTTOM AND TOP) [LAND DEVELOPMENT CODE, BUILDING CODE]

Existing: FEMA Flood Insurance Rate Map and the Florida Building Code

IMAGES FROM ONLINE FEMA FLOOD MAP

IMAGES FROM FEMA, HOMEBUILDER'S GUIDE TO COASTAL CONSTRUCTION (2019)

Recommended Practice

A-Zones in Coastal Areas: Subject to Breaking Waves and Erosion During the Base Flood
 Lowest Horizontal Structural Member Above SFE (Freeboard)

V-Zones: Bottom of Lowest Horizontal Structural Member Above SFE (Freeboard)

Top of Lowest Floor
 SFE
 Freeboard
 Bottom of Lowest Floor (see callout 1) - This is the lowest floor used for occupancy and building contents.

A-Zone Building (Open Foundations)
 V-Zone Building (Open Foundations)

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REGULATORY RESPONSE

CONSIDER BUILDING HEIGHT (BOTTOM AND TOP) [LAND DEVELOPMENT CODE, BUILDING CODE]

Existing: Tampa building height maximums and associated codes

District	Maximum Height
RS-150	35'
RS-100	35'
RS-75	35'
RS-50	35'
RS-25	35'
RM-12	35'
RM-50	35'
RM-18	35'
RM-24	40' 0"
RM-33	120' 0"
RM-50	200' 0"
RM-75	300' 0"
RS-1	35'
RS-2	35'

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REGULATORY RESPONSE

DESIGN GUIDELINES (LAND DEVELOPMENT CODE)

- Integrate raised structures and maintain human scale

IMAGE FROM BOSTON PLANNING AND DEVELOPMENT AGENCY
[HTTP://WWW.BOSTONPLANS.ORG/GETATTACHMENT/D114318-1895-4-BC36-682F8594E682](http://www.bostonplans.org/getattachment/d114318-1895-4-BC36-682F8594E682)

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REGULATORY RESPONSE

EXPAND BUILDING ENVELOPE FOR SMALL LOTS (LAND DEVELOPMENT CODE)

- Encourage buildings to expand horizontally, to not be tall and narrow
- Allow them to encroach into side lot buffer space

IMAGE FROM NYC PLANNING
[HTTPS://WWW1.NYC.GOV/ASSETS/PLANNING/DOWNLOAD/PDF/PLANES/FLOOD-RESILIENCY-UPDATE/ZONING-FOR-FLOOD-RESILIENCY.PDF](https://www1.nyc.gov/assets/planning/download/pdf/plans/es/flood-resiliency-update/zoning-for-flood-resiliency.pdf)

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REGULATORY RESPONSE

PROVIDE FLEXIBILITY FOR LOCATION OF UTILITY SPACE (LAND DEVELOPMENT CODE)

- Do not count against for mechanical equipment or utilities that are raised or internalized

IMAGE FROM NYC PLANNING
[HTTPS://WWW1.NYC.GOV/ASSETS/PLANNING/DOWNLOAD/PDF/PLANES/FLOOD-RESILIENCY-UPDATE/ZONING-FOR-FLOOD-RESILIENCY.PDF](https://www1.nyc.gov/assets/planning/download/pdf/plans/es/flood-resiliency-update/zoning-for-flood-resiliency.pdf)

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REGULATORY RESPONSE

EXPAND APPLICABILITY OF OPTIONAL RULES, SO THAT PROPERTY OWNERS CAN BUILD TOWARD FUTURE CONDITIONS (LAND DEVELOPMENT CODE)

- Extend building flexibility from the most immediately vulnerable zones

From Zoning for Coastal Flood Resiliency (NYC)
<https://www1.nyc.gov/assets/planning/download/pdf/plans/es/flood-resiliency-update/proposal-study.pdf>

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REGULATORY RESPONSE

ESTABLISH (EROSION BASED) SETBACKS (LAND DEVELOPMENT CODE)

- Accommodate for future conditions
- Use historic erosion rates

Tampa Section 27-156
 (General provisions are included in table 4-2.)
 Setbacks for rear of lot varies between 0 to 20 feet, dependent on use and/or location. 20 feet is the maximum.

Section 27-286
 Setbacks from wetlands: 15'

IMAGE FROM BING AERIALS

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REGULATORY RESPONSE

ESTABLISH (EROSION BASED) SETBACKS (LAND DEVELOPMENT CODE)

- In North Carolina

$(\text{the annual coastal erosion rate}) \times (\text{a planning period representing economic lifetime of the coastal structure}) + (\text{an additional buffer})$

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REGULATORY RESPONSE

ESTABLISH SEA WALL STANDARDS (LAND DEVELOPMENT CODE, BUILDING CODE)

- 1. Create build-to standards
- 1. In Broward County structures must be at least 5 feet above NAVD83 (local mean sea level). The height applies to all new or substantially repaired or rehabilitated seawalls, banks and berms.
- 1. Sea walls must be in good repair or face fines



IMAGE BY BRIAN COOK

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REGULATORY RESPONSE

WORK TOWARD THE REMOVAL OF SEA WALLS (LAND DEVELOPMENT CODE, BUILDING CODE, COMPREHENSIVE PLAN)

- 1. Aids in habitat migration and ecosystem functionality



IMAGES BY BRIAN COOK

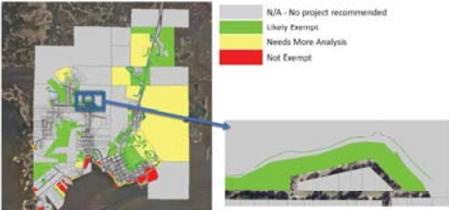
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REGULATORY RESPONSE

INCREASING LIVING SHORELINES (LAND DEVELOPMENT CODE, COMPREHENSIVE PLAN)

- 1. Cedar Key

Living Shoreline Suitability Model Results – Permitting Layer



[HTTPS://FLORIDA.DEF.GOV/SITES/DEFAULT/FILES/SAVANNA-BARRY-CEDAR-KEY-SHORELINE-MANAGEMENT-MASTER-PLAN.PDF](https://florida.def.gov/sites/default/files/savanna-barry-cedar-key-shoreline-management-master-plan.pdf)

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REGULATORY RESPONSE

WORK TOWARD THE REMOVAL OF SEA WALLS (COMPREHENSIVE PLAN)

- 1. Tampa: Coastal Management Element Policy 1.5.4

The use of seawalls and rip rap to stabilize beach shoreline is prohibited unless it can be demonstrated that without it, beach erosion would pose serious threats to human life and property. Tampa City Council make that determination based upon the analysis of an engineer."

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REGULATORY RESPONSE

INCREASING LIVING SHORELINES (LAND DEVELOPMENT CODE, BUILDING CODE, COMPREHENSIVE PLAN)

- 1. Increases ecosystem functionality and accretion
- 1. Dissipates wave action



IMAGE FROM HILLSBOROUGH COUNTY
[HTTP://WWW.PLANHILLSBOROUGH.ORG/LIVING-SHORELINES-ENHANCED-SEAWALLS-IMPROVE-THE-HILLSBOROUGH-RIVER/](http://www.planhillsborough.org/living-shorelines-enhanced-seawalls-improve-the-hillsborough-river/)

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REGULATORY RESPONSE

INCREASING LIVING SHORELINES (LAND DEVELOPMENT CODE, BUILDING CODE, COMPREHENSIVE PLAN)

- 1. The Tampa Bay Living Shoreline Suitability Model



[HTTPS://MYFWC.MAPS.ARCGIS.COM/APPS/WEBAPPVIEWER/INDEX.HTML?ID=E4D76FA267DC84BC97D407D205664E42](https://myfwc.maps.arcgis.com/apps/webappviewer/index.html?id=e4d76fa267dc84bc97d407d205664e42)

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REGULATORY RESPONSE

OPTIONS FOR MANAGED RELOCATION (LAND DEVELOPMENT CODE, COMPREHENSIVE PLAN)

- Planning and engagement is important
- Working within property rights

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REGULATORY RESPONSE

TRANSFER OF DEVELOPMENT RIGHTS (LAND DEVELOPMENT CODE, COMPREHENSIVE PLAN)

- Incentivize development in non-vulnerable locations

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REGULATORY RESPONSE

TRANSFER OF DEVELOPMENT RIGHTS (LAND DEVELOPMENT CODE, COMPREHENSIVE PLAN)

- Section 27-141 in Tampa Land Development Code defines Transfer of Development Rights (TDR), but locations are not defined and none have been utilized.
- Hillsborough County has a TDR program and map but it has not been used. See Carter and Burgess study in 2007.

<https://www.hillsboroughcounty.org/library/hillsborough/media-center/documents/emergency-management/24-pdtp-transfer-of-development-rights.pdf>

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REGULATORY RESPONSE

ROLLING EASEMENTS (LAND DEVELOPMENT CODE, COMPREHENSIVE PLAN)

<https://www.epa.gov/sites/production/files/documents/rollingeasementsprimer.pdf>

- Municipality purchases future easements and rights
- Must allow coastline to migrate
- Preserve for conservation or for future public access

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REGULATORY RESPONSE

IMPACT FEES (LAND DEVELOPMENT CODE, COMPREHENSIVE PLAN)

- For coastal development projects that may create future infrastructure costs to the City, or that may continue to increase coastal vulnerabilities (with sea walls, wetland reduction...)

TAX INCENTIVES (LAND DEVELOPMENT CODE, COMP PLANNING)

- For developing out of the floodway, or in non-vulnerable locations

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REGULATORY RESPONSE

REAL ESTATE DISCLOSURES (LAND DEVELOPMENT CODE, COMPREHENSIVE PLAN)

- For properties that have been impacted by flooding (State of Texas)
- If a property falls within an overly zone, whether from FEMA or otherwise (Pinellas County)

Broward County, Policy 2.21.7
[HTTPS://WWW.BROWARD.ORG/CLIMATE/PAGES/USACE.ASPX](https://www.broward.org/climate/pages/usace.aspx)

Owners must include:
 "This real estate is located in a tidally influenced area. The owner may be required by county or municipal ordinance to meet minimum tidal flood barrier elevation standards during construction or substantial repair or substantial rehabilitation of seawalls, banks, berms, and similar infrastructure or when required to abate nuisance flooding."

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REGULATORY RESPONSE

CONFRONT GLOBAL WARMING (COMP PLANNING)

- Los Angeles (with the pLAN) has made this the central focus of the planning and economy
https://plan.lamayor.org/sites/default/files/pLAN_2019_final.pdf
- The St. Petersburg Integrated Sustainability Action Plan (ISAP) defines specific targets for emissions reduction
https://www.stpete.org/sustainability/docs/ISAP_%20Highlights_for%20Print_FINAL.pdf

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REGULATORY RESPONSE

CREATING PROJECTS IN THE LOCAL MITIGATION STRATEGY (LMS)

- This document, created at the County level, defines vulnerabilities and includes a living project list to mitigate future hazards.

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REGULATORY RESPONSE

TOOLS AND GUIDES

- Georgetown Climate Center
<https://www.georgetownclimate.org/adaptation/toolkits/managed-retreat-toolkit/regulatory-tools.html> AND https://www.georgetownclimate.org/files/report/Adaptation_Tool_Kit_SLR.pdf
- Adaptation Clearinghouse, by Georgetown Climate Center
<https://www.adaptationclearinghouse.org/>
- South East Florida Regional Climate Compact
<https://southeastfloridaclimatecompact.org/regional-climate-action-plan/>
- Thomas Ankersen, University of Florida
https://www.law.ufl.edu/_pdf/academics/centers-clinics/clinics/conservation/sea_level_rise.pdf

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OPPORTUNITIES FOR REGULATORY RESPONSE

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USF UNIVERSITY OF SOUTH FLORIDA

sacd SCHOOL OF ADVANCED CLIMATE DESIGN & UNIVERSITY STRATEGY

fccd+r FLORIDA CENTER FOR CLIMATE CHANGE RESEARCH

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Conference
Sea Level Rise In Tampa: A Policy Approach

Deliverable 2

Conference Summary

Conference Summary

Date Held: January 12, 2021

Location: Webinar (due to Covid-19 social distancing restrictions)

Time: 9 am – 12:30 pm

Registrants: 287

Attendees: 216

of Panelists: 11 People (including the industry forum)

Articles: As of 1/15/21, one news article had been generated in response to the conference.

Key Points: The Conference was well attended with 216 participants. This is much higher than in-person meetings in our area, so the reach is considered to highly successful.

The speakers included experts from the local area as well as the national stage and were well versed with the issue.

The conference was recorded and will be uploaded to the City Planning webpage as soon as it is edited and processed.

Outcomes: The conference showed there is strong interest by the community in addressing sea level rise.

It also showed there is a high level of acceptance of the sea level rise projections.

We also learned that the development community is seeking certainty in the City's development regulations. They do not want to wait several years to find out where they can develop and where they cannot.

Comments Received During the Conference

Last Name	First Name	Question Asked	Answer Given
Yeh	Allison	CJ. Thanks for mentioning the Resilient Tampa Bay Transportation Pilot that Hillsborough, Pinellas, Pasco MPO, and TBRPC wrapped up this year. We do have a database of flooded segments of all three counties for the Storm Surge, SL, and heavy rainfall for 2045. We can provide that if that's of help this project. SLR was looked at separately and combined. Both vulnerability and criticality was considered including environmental justice areas.	Thanks. I'll refer to Brian.
Yeh	Allison	Thanks. Some of our SLR & Storm surge scenarios that TBRPC created for our project were provided for the USF CVS but we may want to see if the individual corridors identified matches with any CIP projects and potential grant based projects. The roads were screened for factors such as proximity to activity and economic center, evacuation routes, part of the LRTP, EJ, etc. The MPO would be happy to partner with Tampa on any grant opportunities. Segments identified in a FHWA report may result in some bonus points on applications.	
walter	charles	Speaker should make distinction between terrestrial flooding and sea-level rise	
walter	charles	The team should be looking at the value and particular details of the City of Tampa Assets. The community issues are valid but the effort should focus on public investments	Thanks Chuck. Good point.
walter	charles	Please discuss other Florida communities and efforts that may be more consistent with both geography and political solutions.	
Reynolds	CJ	Would it be possible for Andy to provide TB staff with the LA SAFE methodology for defining low, medium and high risk?	We'll ask.
Banez	George	Can you give us more information on PEW's initiative towards nature based solutions?	
Scott	Jenna	thank you	
Taylor	Justin	will we have access to any of these presentations after this?	Yes. The video will be placed on the City Planning website in about a week. As will the individual presentations.
Flynn	Larry	Terrific forum. Thank you. I'm trying to figure out where I can best get involved in the sea level rise effort. If you have suggestions, please let me know. -- Larry Flynn, American Institute of Steel Construction, based in St. Pete. flynn@aisc.org	
CARNAHAN	LIBBY	Thank you. This was a fantastic workshop. I am pleased that you reached out to the CSAP and Maya and I look forward to collaborating more closely in the future. -Libby Carnahan	Thanks Libby.
CARNAHAN	LIBBY	Stay tuned for announcement for February 5th 10am workshop on Flood Exposure and Drone Technology by UF Shimberg Center for Housing Studies, UF/IFAS Extension Pinellas County	
CARNAHAN	LIBBY	Also https://www.eventbrite.com/e/gulf-tree-train-the-trainer-workshop-tampa-bay-tickets-126553201031?aff=erelexpmlt	
CARNAHAN	LIBBY	There is still space in the January 19 Workshop.	
CARNAHAN	LIBBY	WOOHOO! Thanks for participation from all!	
Duke	Mary	FYI. Pasco is looking at a bond issue and is being required to fill out a questionnaire that informs of resiliency initiatives, policies, etc. This is already happening.	
Estrada	Mary-Elizabeth	What is your email Andy?	
Estrada	Mary-Elizabeth	Thanks!	
Estrada	Mary-Elizabeth	Making the connection between sea-level rise and gentrification, will assist in the equity aspect.	Yes. Thanks.
Trotz	Maya	Hi I had my hand raised.	Sorry Maya. Can you raise it again, so I check to make sure I can see it?
Trotz	Maya	The question was: How has the City of Tampa incorporated SLR projections with development of/investments in places along the riverfront? And what are the adaptation plans if any?	We have some policies in our comprehensive plan, and this project is one of the next steps. Our hope is that findings from this project will be integrated into our long range plans.
Trotz	Maya	Sorry I did not type as you said raise hand.	Yes. Agreed. Thanks for commenting.
Trotz	Maya	I typed it instead. It's above. Seems as though this presentation might answer question though.	
Trotz	Maya	Thanks. So places like Armature Works and the parks where we spent millions did not consider climate change scenarios? I think the new USF medical school considered some of this from a storm surge only perspective. Seems like bad business decisions to not consider and invest in parts of town that will be compromised.	
Trotz	Maya	What online tool would Brian recommend for citizens to check out SLR in Tampa, e.g. https://ss2.climatecentral.org/	Maya - Thanks for your observation. Are you aware of people who are working in the area of Sea Level Rise that we might reach out to?
Trotz	Maya	What online tool would Brian recommend for citizens to check out SLR in Tampa, e.g. https://ss2.climatecentral.org/	We'll find out and add the links to our Sea Level Rise Project Page.
Stevens	Nancy	thank you Maya and City of Tampa for acknowledging sea level rise and planning for it!!!!	
Lynn	Nicole	What are some strategies for implementing policy without scaring officials and complicating the process of the implementation of without locking out new development/redevelopment and gentrifying neighborhoods?	

Randy Goers

From: Randy Goers
Sent: Friday, December 11, 2020 1:50 PM
To: Randy Goers
Cc: Cook, Brian
Subject: Tampa Sea Level Rise Study - Follow Up

Greetings –

On behalf of the Tampa City Planning Department and the Florida Center for Community Design and Research, thank you for registering for the November 24 kick off meeting on the Sea Level Rise study. If you were not able to attend the meeting, it is now available on the City's YouTube channel at <https://www.youtube.com/watch?v=JoAQIgnHz7M&feature=youtu.be>.

Help Us Plan for the Future!

We are researching best practices from other cities in planning for and combatting sea level rise. We invite you to send us your ideas or suggestions. You can respond to this email and consider the following questions:

1. What is the idea or policy initiative?
2. Where have you seen this work?
3. Do you know of any studies or successful projects that we should review?

Thank you for your participation in this effort and for your interest in the Tampa Sea Level Rise Project.

Sincerely,

Randy Goers

Randy Goers

Director, City Planning Department

City of Tampa / 1400 North Boulevard/ Tampa, FL 33809

p: (813) 274-8694 / randy.goers@tampagov.net

Please note: This e-mail is public record.

Randy Goers

From: Zambito, Chris <Chris.Zambito@atkinsglobal.com>
Sent: Wednesday, December 23, 2020 10:19 AM
To: Kessler, Sarah; Matzke, Lauren; Moran, Kevin; Whit Remer; shawn Colledge; 'Foster, Lisa D'; Bowers, Wiatt F; Parsons, Daniel B; Cook, Brian; Randy Goers
Subject: [EXTERNAL] Flood Resiliency Building Guidelines & Zoning Overlay District Example from Boston

I'm not sure if you all have looked into something like this as part of the ongoing resilience/sustainability movements in the greater Tampa region. This looks like the more thorough/mature version of the Adaptation Action Area approach. Per the website:

<http://www.bostonplans.org/planning/planning-initiatives/flood-resiliency-building-guidelines-zoning-over>

“One of the primary goals of Climate Ready is to promote adapted buildings that will function to limit damage and displacement related to the impacts of a changing climate.

Among the most significant climate risks facing Boston is the danger to people and property from coastal flooding, which is predicted to increase over time with rising sea levels. To address this risk Climate Ready directed the BPDA to develop a set of design guidelines and a zoning overlay district to promote coastal flood resilience in vulnerable areas of the City.

In 2019 the BPDA developed and adopted Coastal Flood Risk Design Guidelines for new construction and building retrofits, as well as recommendations for a Flood Resiliency Zoning Overlay District. The Guidelines provide best practices for flood resistant design and are intended to be administered by BPDA staff for the review of projects within a proposed Flood Resilience Zoning Overlay District.”

Happy holidays -cz

Chris Zambito, CFM

Senior Project Manager
Engineering, Design and Project Management
Tel: 813 281 3637

Atkins, member of the SNC-Lavalin Group
4030 West Boy Scout Blvd, Suite 700, Tampa, FL 33607

www.atkinsglobal.com | www.snclavalin.com

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Consider the environment. Please don't print this e-mail unless you really need to.

Randy Goers

From: drop@skyhho.com
Sent: Tuesday, January 5, 2021 5:06 PM
To: Randy Goers
Subject: [EXTERNAL] Note from Chuck Walter

Hey Randy,

I hope this note finds you well. I hope you have the greatest success in the Sea-level rise project.

It's been a long time since we've had a chat. I'm still in the area mostly retired but keep my hand in the game though professional organizations and have been tracking this effort in particular. As you may imagine, when I was working on this back in 2007-8, there wasn't much political interest in the issue.

We did have some pretty solid work on the issue sans, the political interest. In particular; I hope you can share the thoughts below with the team. Give me a call if you would like to chat. (813) 380-6937. Be great if we could just meet for lunch. I can hardly wait to get to our new "normal".

1. The City's primary focus, should be prioritized. The prioritization process, can be a valuable step in your current effort. It can be discussed and negotiated within the team to have ownership in the outcome. A few details to get on the table: The "City" controlled properties should be mapped with a risk analysis. In particular: obviously, elevations and the rise prediction models as the base, lands within about 1,000' of the lowest rise risk should have classes like: ROW, Fee Simple, Parks, Easements, Passive uses.

2. Make the distinction on "public" ownership. The City does not have the highest value assets at risk. Address this with the team up-front as you like: Port Tampa and Port of Tampa, Tampa International Airport, MacDill AFB. Then, you get to the second tier assets, Waste to Energy, HFC WWTP, Convention Center and ROWs. Getting this on the table as an early action can be a "win" for the team. It has good value to help with building momentum for the effort over time. The other "public" entities with assets at risk are opportunities for low-pain, high-reward partnerships that residents love to see.

This is where you insert the political action plan. Get the legislative delegation involved next, cycle (start to form strategy Aug-Sept, roll out Oct-Nov)

Smaller public entities; not really at play but worth getting on the list. SWFWMD; Tampa Bypass Canal, School Board, FDOT, Expressway Authority, County, you know better than I know about any others)

3. For those more technical in their understanding of changes in hydrology that come with sea-level rise, there is often a conversation about changes in rainfall patterns. Avoid this rabbit hole. While changes in rainfall patterns are not only likely, they are significant and more prominent than most people realize (the old 1 in 25 yr, 24-hr storm was based on the rainfall record from about 1955-1984). This base, rainfall record is a function of FEMA floodplain mapping. Let the issue stay there, stay away from changes in rainfall. Recognize it, FEMA floodplain mapping has it, move on. Sea-level rise and terrestrial flooding are completely separate issues.

4. How to raise funds. See item 2, everybody thinks there is a magic money tree of grants. Only HMGP is out there now, more about that, in item 7. We saw Paving Program and Stormwater Ops as only existing and both are inadequate sources without major reconsideration of performance goals. We looked at Special Assessments to properties at risk. For instance: we created revenue models based on land, low-point (greater than 100sf); finished floor elevation if land is improved; and we looked at the lowest road, edge of pavement (EOP) elevation joining the property to include the lowest point for ingress egress (evacuation route).

We used the elevation of EOP for a few reasons. 4-5,5-6,6-7,7-8,8-9, 9-10. These 6 roadway classes get special consideration. In particular, as outlined in item 1, the ROW is the City's responsibility to maintain. Therefore, its value is one of the highest in the City's assets therefore, a priority for public expenditures in a risk reduction strategy. These properties also have "special benefit" as a pass/fail for use of special assessment.

a) Remember, you have the special case of "brick streets". I don't remember if any fell into these classes.

5. The strategy we came up with to protect the ROW was simple, but elegant. All the public ROW that will be maintained (there is some ROW, NW of MacDill that were never improved, it will be a special case you will need to address it). These roads, starting with the lowest class; 4-5' will be raised by .1' every 5 years, until they reach 10' +/- . The City asset, the Road, will be raised slowly, so joining property owners have time to adjust their driveways and they can raise their sites, as they see fit. We did think about providing fill for low properties, didn't work out (public funds for private benefit test).

In 25-40 years, when the asphalt black-base starts to get real thick, you'll have enough material, to much more economically mine, process and recycle the asphalt. Then, do a major road reconstruction including the community issues at that time. The special assessments help defray costs, residents get new, shiny roads, the community sees action.

6. Moving HFC, WWTP was always a big issue. Brad loves it, I think as much as his own children. Its pretty robust. Still, its in a bad risk location and has been the biggest problem in getting reclaimed water to the "right" users. Professionally; in my opinion, planning to move it should have started 10 years ago. Its a can of worms, avoid it if you can.

7. Prioritize Park Development for areas where lands are at highest risk. It allows you to use hazard mitigation funds (I think you know about FEMA Hazard Mitigation Grant Funds more like: lack there-of, still good to get this strategy into the HMGP) The HMGP is a living document updated annually with formal approval (I forget if the City and/or both County have votes on it).

8. The hard building assets like the waste to energy and convention center are easiest to create a strategy, use a typical depreciation model and prioritize the detailed planning effort for the respective department. They will each have their own stakeholders to get into their respective CIPs.

9. Hidden jewel: The older engineers in town know about this, good to memorialize it whenever it makes sense. The spoil islands in the Bay are a great "Fill" source. MacDill has had their eye on it. As you may know, there is a "Special Habitat" distinction that prevents the island's development. However, taking the fill, is up for grabs as its not in conflict with the wildlife. Whoever lays out a plan for it first, gets the political will behind them, gets it. Its the cheapest fill in the Tampa Bay region. Put it into a slurry, separate it by partial size, if you want. You can pump it to China if you want to.

At Your Service,
Chuck
(813) 380-6937

----- Original Message -----

Subject: Tampa Sea Level Rise Conference Confirmation
From: "Randy Goers" <customercare@gotowebinar.com>
Date: Tue, January 05, 2021 12:24 pm
To: drop@skyhho.com

Thank you for registering for "Tampa Sea Level Rise Conference".

The City of Tampa has been awarded a \$75k grant from The Florida Resilient Coastlines Program (FRCP) to study the impacts of sea level rise on our community and to identify key recommendations for resilience planning. With the grant, the City Planning Department will complete an analysis of current land use, zoning, and building regulations and recommend strategies to prepare for projected sea level rise impacts.

This webinar will inform community stakeholders of the project and of the potential implications. The agenda is being finalized, but the key topics and sessions include:

- The State of Sea Level Rise In Tampa Bay
- Why Should We Be Concerned?
- What Areas of the City are most at risk to Sea Level Rise?
- What can we learn from other communities?
- Regulatory options in response to Sea Level Rise

Please send your questions, comments and feedback to: randy.goers@tampagov.net

How To Join The Webinar

Tue, Jan 12, 2021 9:00 AM - 12:30 PM EST

Add to Calendar: [Outlook® Calendar](#) | [Google Calendar™](#) | [iCal®](#)

1. Click the link to join the webinar at the specified time and date:

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Note: This link should not be shared with others; it is unique to you.

Before joining, be sure to [check system requirements](#) to avoid any connection issues.

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If you prefer to use your phone, you must select "Use Telephone" after joining the webinar and call in using the numbers below.

United States: +1 (562) 247-8422

Access Code: 638-212-327

Audio PIN: Shown after joining the webinar

Webinar ID: 365-522-947

Randy Goers

From: admin@tampagov.net on behalf of TampaGov <autobot@tampagov.net>
Sent: Tuesday, November 24, 2020 7:27 PM
To: TampaPlanning
Subject: Sea Level Rise Project Public Comment

Submitted on Tuesday, November 24, 2020 - 7:27pm Submitted by anonymous user: 47.197.21.205 Submitted values are:

What do you feel are the top issues that the Planning Project should address? High density on coastal areas already in the CHHA and those that will be in the CHHA when new CHHA mapping is released What opportunities or ideas should the planning team pursue? Explore the ideas of water retention and slow release after storm events projects that may mitigate future flooding in the CHHA In regard to Sea Level Rise in the City of Tampa, what would you like to learn as part of this project? What new technology and innovative ways other communitites are utilizing to mitigate SLR, Will the study provide recommendations

The results of this submission may be viewed at:

https://urldefense.proofpoint.com/v2/url?u=https-3A__u4261532.ct.sendgrid.net_ls_click-3Fupn-3DKI3teTt2EXIUN5R6olrX7Q3h1l06-2D2BFYHHxOE4cwcaVs9mhJCQAiaub2ZuMdA1YTHsK2PpmWwakFMGjigm0U0l8cQMm7YUsFIOSF1qkY0tl-2D3DonIV-5FtXEnaKsppXUiYoCCSI8tv1-2D2BDScfMSPbm1CZT1GFN90fbZCuBVuOS-2D2Fwei5FIANN3cP80BXMObI5JN96CdIxbetZWH8xbQriQJhPNI5152yZANJneHzf6a4mYCdtTpgN784JLG11QbgeesY1SgLGQ5YjPAUdHhUsLVpqT2ijJNyph6yaLLq6XNOBKLNoXp7uxHp52HW4D-2D2FarorV2sBOSWbiczYdOtc2Z1B6S4WZkhUWA-2D3D&d=DwlCAg&c=XqATCztIzLCYon5OykG81w&r=A6w3amMJsbtK8pS4calGcTZa99QG0Na9NXC3KUa0sp4&m=xCWGv9vpp9p00QxTIMOnZM3vevY-peKIBK40pDDbRWA&s=3Tfrqdk7WiA0Q3f3IVMaBa-iG2XvKIYWm3W3M9Is4c8&e=

Randy Goers

From: admin@tampagov.net on behalf of TampaGov <autobot@tampagov.net>
Sent: Tuesday, November 24, 2020 7:28 PM
To: TampaPlanning
Subject: Sea Level Rise Project Public Comment

Submitted on Tuesday, November 24, 2020 - 7:28pm Submitted by anonymous user: 47.197.201.248 Submitted values are:

What do you feel are the top issues that the Planning Project should address? I live on the Hillsborough river in sulfur springs. Beautiful. I would like to share some pictures with you of recent tides What opportunities or ideas should the planning team pursue? Tidal changes in key sea level periods (storms). Nice show, good start!!!!
In regard to Sea Level Rise in the City of Tampa, what would you like to learn as part of this project? I meet FEMA 2018. What can I do to my property to benefit others? How do we address sea level rise together?

The results of this submission may be viewed at:

https://urldefense.proofpoint.com/v2/url?u=https-3A__u4261532.ct.sendgrid.net_ls_click-3Fupn-3DKl3teTt2EXlUN5R6oirX7Q3h1l06-2D2BFYHHxOE4cwcaVs9mhJCQAiaub2ZuMdA1YTH2Tm03-2D2FtPnwZ-2D2FjJWY2XiNTXbxFG6oHFT0-2D2FViAlhnbRZs-2D3Dqn-2Di-5FtXEnaKsppXUiYoCCSI8tv1-2D2BDScfMSPbm1CZT1GFN90db2lZGXeFqyYz9DqqfEf9uMCndZ8xCOrAH8m4EKG5kb62tosOCRpkdlydzfX4y8KxvQo5hRFDozvKeGYtpAqZoGRdNkgGUqnsNldWRYavi1-2D2FVQeX130Fyl1Std9FuLMwz1CKamj6yMoQ7LFSMOrpaTuuu6VPqOlt-2D2BSYDrOp3YoR-2D2FsKhmk5hyAuswuHKNJYMV-2D3D&d=DwICAg&c=XqATCztIzLCYon5OykG81w&r=A6w3amMJsbt8pS4calGcTZa99QG0Na9NXC3KUa0sp4&m=ggdxVH2ZXkaZZNi7z3mPren_yVIQMVZdkQxLdgwsbpE&s=t3sFCOE9Ad1gnBecCsN3TwXLa_mgMu8rE6W8qEQtt3o&e=

Randy Goers

From: admin@tampagov.net on behalf of TampaGov <autobot@tampagov.net>
Sent: Tuesday, November 24, 2020 7:31 PM
To: TampaPlanning
Subject: Sea Level Rise Project Public Comment

Submitted on Tuesday, November 24, 2020 - 7:30pm Submitted by anonymous user: 98.124.161.29 Submitted values are:

What do you feel are the top issues that the Planning Project should address? Currently new infrastructure (roads, utilities, etc.), underwater before the end of their useful life; how should we build What opportunities or ideas should the planning team pursue? What changes should be implemented; codes help prevent damage...proper siting avoids it entirely. Strategic retreat to New Tampa In regard to Sea Level Rise in the City of Tampa, what would you like to learn as part of this project? New building design & construction requirements to limit impact years from now when these buildings should still be functional

The results of this submission may be viewed at:

https://urldefense.proofpoint.com/v2/url?u=https-3A__u4261532.ct.sendgrid.net_ls_click-3Fupn-3DKI3teTt2EXIUN5R6olrX7Q3h1l06-2D2BFYHHxOE4cwcaVs9mhJCQAiaub2ZuMdA1YTHqb2ZBX1jcdYZx-2D2BMCqAhFb2WrKNWLyWp1dh-2D2BEYDjg9w-2D3Do6py-5FtXEnaKsppXUiYoCCSI8tv1-2D2BDScfMSPbm1CZT1GFN90ehCjSubQv0kYB7MVyH2F1GWXJPVVEuZmYxtMhsA6S5I79pl1UKUk-2D2B-2D2Be8q-2D2FtDWgeYfMfARMXrEn6HtyDW6Q6q4FhTOUbnveplZ-2D2BcF8Da7pfLr1qrPz0NER67pw6S-2D2FU-2D2Bz3etG0Mn4HfNRNbHBHaAW2gm5Tc46GsaZHxzggn3lAdvaP-2D2Boy-2D2FaXJ8653EzdRopuyOQ-2D3D&d=DwICAg&c=XqATCztIzLCYon5OykG81w&r=A6w3amMJsbtK8pS4calGcTZa99QG0Na9NXC3KUa0sp4&m=6RrQTays6EWaPv8IzAVbEaQwbXtsJhK8jh8dgErZj1c&s=qCTBD-9eTnTl6eBMw2xV-yhF2jmninA_gll_XJszYZ0&e=

Randy Goers

From: admin@tampagov.net on behalf of TampaGov <autobot@tampagov.net>
Sent: Tuesday, November 24, 2020 7:30 PM
To: TampaPlanning
Subject: Sea Level Rise Project Public Comment

Submitted on Tuesday, November 24, 2020 - 7:30pm Submitted by anonymous user: 34.99.115.112 Submitted values are:

What do you feel are the top issues that the Planning Project should address? Making sure the data used/referenced in the study are reliable and accurate so recommendations in the study are realistic.
What opportunities or ideas should the planning team pursue? Using parks, undeveloped natural areas and existing open space to help mitigate extreme high tides and sea level rise.
In regard to Sea Level Rise in the City of Tampa, what would you like to learn as part of this project? What will this study recommend and what are the anticipated costs to mitigate, retrofit and develop within the new future regs?

The results of this submission may be viewed at:

https://urldefense.proofpoint.com/v2/url?u=https-3A__u4261532.ct.sendgrid.net_ls_click-3Fupn-3DKI3teTt2EXIUN5R6olrX7Q3h1l06-2D2BFYHHxOE4cwcaVs9mhJCQAiaub2ZuMdA1YTHsxPY4dUMIkNxIDEvVSw-2D2BmFA8Xb6z1pxsO2XcZdFjEvs-2D3DKxRr-5FtXEnaKsppXUiYoCCSI8tv1-2D2BDScfMSPbm1CZT1GFN90dxeYkPjnXm4KUuaN-2D2B6kE7XQyGRDKU-2D2B1U0v6PnewNK9CLh4u8mG9U5N45b4vk5OJZ6y43b-2D2FFbP5vPKyysHvUJfo-2D2FH6mBXSpvrMSG4sUrOO2jsXn80Ot9py4j-2D2BtM3sYv48XDKPmTRETsr6rYr9-2D2BxqkKPIMMyiVVIK-2D2BSITE57o-2D2Fh6uvkKi2BCcu-2D2Bfc3IQ89IIHmQ-2D3D&d=DwICAg&c=XqATCztIzLCYon5OykG81w&r=A6w3amMJsbtK8pS4caIGcTZa99QG0Na9NXC3KUa0sp4&m=_fs2NpTKK_Y4VMiQ1Qeslayk4GvjN4e4e74zxyE6V6g&s=ab_CGcbUuBQmpRr7e6knczxSs9WLaR86L3blqSa6Ovw&e=

Randy Goers

From: dzhome@tampabay.rr.com
Sent: Friday, December 11, 2020 4:00 PM
To: Randy Goers
Subject: [EXTERNAL] RE: Tampa Sea Level Rise Study - Follow Up

Randy –

Have you read the book Disposable City by Mario Alejandro Ariza? I have just started the book but there a number of individuals identified that are addressing this issue in South Florida one of which is Jim Murley. I first met him when he was the DCA Secretary and always found him to be very knowledgeable and forthcoming. I know you are on top of things and probably know Jim as well, but if you haven't touched base with him he would probably be a great resource.

Regards,
Debbie Zomermaand

From: Randy Goers <Randy.Goers@tampagov.net>
Sent: Friday, December 11, 2020 1:50 PM
To: Randy Goers <Randy.Goers@tampagov.net>
Cc: Cook, Brian <brianraycook@usf.edu>
Subject: Tampa Sea Level Rise Study - Follow Up

Greetings –

On behalf of the Tampa City Planning Department and the Florida Center for Community Design and Research, thank you for registering for the November 24 kick off meeting on the Sea Level Rise study. If you were not able to attend the meeting, it is now available on the City's YouTube channel at <https://www.youtube.com/watch?v=JoAQlgnHz7M&feature=youtu.be>.

Help Us Plan for the Future!

We are researching best practices from other cities in planning for and combatting sea level rise. We invite you to send us your ideas or suggestions. You can respond to this email and consider the following questions:

1. What is the idea or policy initiative?
2. Where have you seen this work?
3. Do you know of any studies or successful projects that we should review?

Thank you for you participation in this effort and for your interest in the Tampa Sea Level Rise Project.

Sincerely,

Randy Goers

Randy Goers

From: Perotin, Manuel A. <perotinma@cdmsmith.com>
Sent: Monday, January 4, 2021 8:02 AM
To: Randy Goers
Cc: Cook, Brian
Subject: [EXTERNAL] RE: Tampa Sea Level Rise Study - Follow Up

Not sure how much this helps, doubt I am sharing anything you did not already know (tried to provide some links figured you likely already had most)

- Example ideas or initiatives
 - o The SLR Strategy in Charleston (<https://www.charleston-sc.gov/1981/Flooding-Sea-Level-Rise-Strategy>), Hampton, VA (<https://hampton.gov/DocumentCenter/View/20644/Resilient-Hampton-Phase-I-Report?bidId=>), San Diego (https://icleiusa.org/wp-content/uploads/2016/08/San_Diego_Bay_SLR_Adaptation_Strategy_Complete.pdf) came to mind...I am sure there are others (San Francisco Airport comes to mind too, I thought of TIA when I read
 - o NOAA Office for Coastal Management is a potential resource, Digital Coast and Sea Grant program too
 - o FFMA or ASFPM might be a good resource
- Where
 - o California has been publishing some guidance on this issue for years, up and down the east coast (<https://sealevelrise.org/states/massachusetts/>) several states are as well
 - o Following Sandy NYC has put more emphasis on coastal resilience...Boston too, Miami-Dade is focusing on this, Norfolk, VA comes to mind too...this is an area of emphasis for DOD too, not sure if MacDill has any ongoing initiatives (I know based on John S. McCain National Defense Authorization Act for Fiscal Year 2019, new DOD construction for non-mission-critical buildings and facilities, the structure must be built 2 feet above the base flood elevation and for mission-critical buildings, 3-feet above BFE)
 - <https://www1.nyc.gov/site/planning/plans/climate-resiliency/climate-resiliency.page>
 - <https://www1.nyc.gov/site/planning/plans/flood-resilience-zoning-text-update/flood-resilience-zoning-text-update.page>
- Success stories
 - o Personally I think most of these are still strategies and have not been completely implemented OR it is too soon to see a 'return on investment' and illustrate a case study
 - o I've been on a number of post event damage assessment deployments and a common theme is elevation and siting matters, with numerous examples. Generally speaking newer construction is performing better than older, but if you get the elevation wrong there is not much difference. In newer construction we are still struggling with wind driven rain/water intrusion, but that is outside this SLR Study.
 - o The NFIP, ICC/ASCE 24, and FBC (including Florida CCL) are minimum requirements, if you meet these you are not doing much for SLR
 - o Siting and elevation buildings is only one factor – those influence design and construction, what about the infrastructure roads and utilities that support those buildings...a building can potentially be surrounded by water and have limited damage, but the road and utilities that service it are likely going to suffer damage. Stormwater outfalls are another common issue/challenge and I know this is something the City of Tampa is/has already looked at.
 - o Challenging policy changes related to zoning, design and construction, retreat
 - o My observation is a performance based strategy is likely most effective (building areas below projected SLR limited to flood resistant uses – parking garages, common areas constructed of flood resistant materials; all critical systems MEP and occupied/habitable space in elevated areas...no new infrastructure in SLR areas – roads, utilities, etc....revisit current zoning, modify certain parcels to open

space/parks...reevaluate current land use policies and ordinances)...overall the sooner actionable items are implemented the better...seems like a lot of SLR strategies and plans are identifying the risk/vulnerabilities and recommending actions but they are not being implemented...easier said than done

Manny

Manny A. Perotin, PE, PMP, CFM | Senior Project Manager | CDM Smith
2002 N Lois Avenue, Suite 200 | Tampa, FL 33607 | T: 813.262.8853 | M: 813.786.7262 | perotinma@cdmsmith.com |
Connect with me on [Twitter](#) and [LinkedIn](#)

From: Randy Goers <Randy.Goers@tampagov.net>
Sent: Friday, December 11, 2020 1:50 PM
To: Randy Goers <Randy.Goers@tampagov.net>
Cc: Cook, Brian <brianraycook@usf.edu>
Subject: Tampa Sea Level Rise Study - Follow Up

Greetings –

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1. What is the idea or policy initiative?
2. Where have you seen this work?
3. Do you know of any studies or successful projects that we should review?

Thank you for your participation in this effort and for your interest in the Tampa Sea Level Rise Project.

Sincerely,

Randy Goers

Randy Goers

Director, City Planning Department
City of Tampa / 1400 North Boulevard/ Tampa, FL 33809
p: (813) 274-8694 / randy.goers@tampagov.net

Please note: This e-mail is public record.

Randy Goers

From: Jeremiah Overman <jeremiah.overman@kpiengineering.com>
Sent: Wednesday, January 13, 2021 1:19 PM
To: Randy Goers
Subject: [EXTERNAL] RE: Thank you for attending Tampa Sea Level Rise Conference

Hi Randy,

Good afternoon! Thank you for your follow-up email. I would like to access a recording of the conference and supporting presentation material. Please let me know when this is available. I really enjoyed the discussions and thanks again for your time.

Best Regards,

Jeremiah Overman
Senior Electrical Designer

KPI Engineering, Inc.

Mechanical | Electrical | Plumbing / Fire Protection

No matter the Scope, KPI has YOU Covered!

3203 Queen Palm Drive

Tampa, Florida 33619

Ph 813.241.6488 ext 205

Cell 813.476.2193

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From: Randy Goers <customercare@gotowebinar.com>
Sent: Wednesday, January 13, 2021 12:31 PM
To: Jeremiah Overman <jeremiah.overman@kpiengineering.com>
Subject: Thank you for attending Tampa Sea Level Rise Conference

We hope you enjoyed our webinar.

Please send your questions, comments and feedback to: randy.goers@tampagov.net.

You are receiving this email because you registered for this webinar. Your email address and personal information will be used by the Webinar organizer to communicate with you about this event and their other services. To review the organizer's privacy policy or stop receiving their communications, please contact the organizer directly.

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This email is sent on behalf of the organizer by GoToWebinar.

Randy Goers

From: Justin Taylor <justin@phdesign.us>
Sent: Monday, December 14, 2020 11:35 AM
To: Randy Goers
Cc: Cook, Brian
Subject: [EXTERNAL] Re: Tampa Sea Level Rise Study - Follow Up

Dear Mr. Randy Goers,

Thank you for the opportunity to reach out to you regarding this vital issue for our community. I enjoyed your presentation, and I'm glad to see the city taking steps to address the issue of sea level rise.

The main idea I would put forward is to think of rainwater as a resource that can be leveraged to create better urban infrastructure. Some time ago, I watched several presentations on the ways that Copenhagen was dealing with sea level rise, and they had a series of urban strategies to create rainwater retention basins within urban parks that took a holistic approach to moving rainwater after storms so that it lessened flooding. They also instituted an incentive for developments to create on-site rainwater retention strategies instead of tying it to sewer systems. It has been proving very effective, and the Danish government created a platform in order to disseminate these ideas for other cities to learn from them.

This platform is called 'State of Green', and it lists several urban strategies to deal with climate change. The links below are specifically about Sustainable Urban Drainage Systems, which they reference with the acronym 'SUDS'.

- Sustainable Urban Drainage Systems Paper highlighting examples:

<https://stateofgreen.com/en/uploads/2015/10/Sustainable-Urban-Drainage-Systems.pdf?time=1607511880>

- State of Green Website:

<https://stateofgreen.com/en/publications/sustainable-urban-drainage-systems-helps-increase-drinking-water/>

- Solutions for Sustainable Cities (Copenhagen)

<https://international.kk.dk/sites/international.kk.dk/files/Copenhagen%20Solutions%20for%20Sustainable%20cities.pdf>

I truly hope that this will be of assistance and am available to discuss this in more depth if interested.

Wishing you and yours a great holiday season.

All the best,

Justin

Justin R. Milliet R. Taylor
PROJECT MANAGER, CPHD, LEED GA

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On Dec 11, 2020, at 1:50 PM, Randy Goers <Randy.Goers@tampagov.net> wrote:

Greetings –

On behalf of the Tampa City Planning Department and the Florida Center for Community Design and Research, thank you for registering for the November 24 kick off meeting on the Sea Level Rise study. If you were not able to attend the meeting, it is now available on the City's YouTube channel at <https://www.youtube.com/watch?v=JoAQlgnHz7M&feature=youtu.be>.

Help Us Plan for the Future!

We are researching best practices from other cities in planning for and combatting sea level rise. We invite you to send us your ideas or suggestions. You can respond to this email and consider the following questions:

1. What is the idea or policy initiative?
2. Where have you seen this work?
3. Do you know of any studies or successful projects that we should review?

Thank you for your participation in this effort and for your interest in the Tampa Sea Level Rise Project.

Sincerely,

Randy Goers

Randy Goers

Director, City Planning Department

City of Tampa / 1400 North Boulevard/ Tampa, FL 33809

p: (813) 274-8694 / randy.goers@tampagov.net

Please note: This e-mail is public record.

Randy Goers

From: Flynn, Larry <flynn@aisc.org>
Sent: Wednesday, January 13, 2021 2:22 PM
To: Randy Goers
Subject: [EXTERNAL] Question about Sea Level Rise in Tampa webinar

Randy,

Thank you. I thought the webinar was overflowing -- so to speak -- with great information on the issue of sea level rise in Tampa and the many efforts underway to study, plan for and mitigate it.

If I can be of service in any way from the building materials side of things, I would be honored to be involved.

My question would be where will the recording of the webinar be able to be accessed when it is available? I'm guessing here perhaps? -- <https://www.tampa.gov/city-planning/sea-level-rise-study>

Best of luck with your efforts and I look forward to participating more actively going forward,
Larry

Larry Flynn
Structural Steel Specialist - Central Florida Market
American Institute of Steel Construction
St. Petersburg, Fla.

www.aisc.org | flynn@aisc.org
312.731.7511 (mobile)

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Randy Goers

From: Nicholas Tufaro <nicholas.tufaro.pmp@gmail.com>
Sent: Friday, December 11, 2020 6:17 PM
To: Randy Goers
Cc: 'Cook, Brian'
Subject: [EXTERNAL] RE: Tampa Sea Level Rise Study - Follow Up

Good Afternoon Randy and Brian,

Thank you for the e-mail and the link below. I am a project manager, certified by the Project Management Institute, Scrum Alliance and Lean Kanban University. With that said, I've got access to many resources, including talent, that can help move this effort forward. In so doing, I've just created a post within www.projectmanagement.com summarizing the 3 questions below. I'm expecting some responses within the next few days. As soon as I get them, I will let you know.

Regards,

Nicholas Tufaro, Jr.

"Transforming Your Project Management Experience to Gain Value Quickly"

Mobile: 727-543-9947

PMP (#2166304)

PMI-ACP (#2643601)

CSM (#1195646)

Website: <https://www.tufaroinformationsystems.com/>

LinkedIn: <https://www.linkedin.com/in/nicholastufaro>



From: Randy Goers <Randy.Goers@tampagov.net>
Sent: Friday, December 11, 2020 1:50 PM
To: Randy Goers <Randy.Goers@tampagov.net>
Cc: Cook, Brian <brianraycook@usf.edu>
Subject: Tampa Sea Level Rise Study - Follow Up

Greetings –

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Sincerely,

Randy Goers

Randy Goers

Director, City Planning Department

City of Tampa / 1400 North Boulevard/ Tampa, FL 33809

p: (813) 274-8694 / randy.goers@tampagov.net

Please note: This e-mail is public record.

Randy Goers

From: Steve <suncoastsd@verizon.net>
Sent: Friday, December 11, 2020 2:45 PM
To: Randy Goers
Subject: [EXTERNAL] Re: Tampa Sea Level Rise Study - Follow Up

New Orleans is the only city that I can think of in the U.S. Of course it was built below sea level. I have heard good things about the dikes in the Netherlands being a specific way to control flooding. I also think every new residence that is being built should have a water retention system under it at least equal to 1" of rain on the entire lot (in gallons). Not a retention pond.

Steve Meadows

On Dec 11, 2020, at 1:50 PM, Randy Goers <Randy.Goers@tampagov.net> wrote:

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Sincerely,

Randy Goers

Randy Goers

Director, City Planning Department
City of Tampa / 1400 North Boulevard/ Tampa, FL 33809
p: (813) 274-8694 / randy.goers@tampagov.net

Please note: This e-mail is public record.

Wong	Ray	Comment - Salt water intrusion could also have an incredibly impact on infrastructure in the form of impact to built-environment elements that contain any number of metal-type reinforcements (steel primarily). This would impact everything from roads, to buildings, infrastructure elements and equipment.	Yes. Agreed. Thanks for the comment.
Weaver	Ron	Great job, Andy, on all fronts. Email me rweaver@stearnsweaver.com how I can help you help some great audience follow up on social equity, and I have Urban League Board meeting tonight at 7 pm.	
Weaver	Ron	Good Point Jake about the Comp P Lan Velvet hammer. Whast did Fla Legislature provide in 2015 in Peril of Flood requirements for such Comp Plans, like Adaptation Action areas etc?	
Weaver	Ron	Thank you all.	
Edwards	Sarah	I live on Davis Islands where people are buying double and triple lots to build huge mansions- I don't think the message has gotten through! How do educate and bring along?	
Edwards	Sarah	Thanks, very interesting and important conversation.	
Poynor	Stephanie	I was only pointing out the sound was out. No worries about a question. Sorry, I just found the chat. =)	Are you able to hear the presentations now?
Poynor	Stephanie	Yes, it's went out more than once. But good now.	
Poynor	Stephanie	What is CRS rating? I missed what it stands for?	Communities that do certain things to promote sound flood mitigation policy are rated on a scale of 1-10. Homeowners that have National Flood Insurance are given a discount on their flood insurance based on the community rating. Tampa is rated 5, which ie vary high. Not many have a rating above this.
Poynor	Stephanie	Ok thank you	
Poynor	Stephanie	thanks!	
Glickman	Susan	Hi Forbes, can you touch on the need to reduce emissions to avoid the worst implications of climate change/sea level rise? Any thoughts on what Tampa can learn from places like Norfolk VA?	
Glickman	Susan	I wanted to pick up on how we avoid making this worse - picking up on Jake's comment on density and also Heidi's comment on creating jobs making homes more efficient.	



ABOUT

COPY WEBINAR

216
ATTENDED

STANDARD

Tampa Sea Level Rise Conference

TUE, JAN 12, 2021
09:00 AM - 12:30 PM EST
ENGLISH

The City of Tampa has been awarded a \$75k grant from The Florida Resilient Coastlines Program (FRCP) to study the impacts of sea level rise on our community and to identify key recommendations for resilience planning. With the grant, the City Planning Department will complete an analysis of current land use, zoning, and building regulations and recommend strategies to prepare for projected sea level rise impacts.

This webinar will inform community stakeholders of the project and of the potential implications. The agenda is being finalized, but the key topics and sessions

[Add webinar details to my calendar](#)

ORGANIZERS

RG Randy Goers

BC Brian Cook

PANELISTS

JM Jennifer Motsinger

TS Taryn Sabia

CA Chris Ahern

FT Forbes Thompkins

WR Whit Remer

HS Heidi Stiller

AS Andy Sternad

MB Maya Burke

DP Daniel Parsons

CZ Chris Zambito

JC Jake Cremer



Tampa Planning To Deal With Rising Seas

WUSF Public Media - WUSF 89.7 | By [Steve Newborn](#)

Published January 13, 2021 at 12:12 AM EST



Water surrounds downtown Tampa on three sides

Tampa is conducting a \$75,000 [study](#) to determine the city's risk from rising seas.

Planners will produce a report on best practices for both new developments and existing homeowners who live in low-lying areas and want to minimize any impact.

During a webinar update on the project, Forbes Tompkins of the Pew Charitable Trusts said the impacts of rising seas can be considerable.

"Sunny day flooding from high tides in low-lying communities, it can be flooded homes and businesses," he said. "Stormwater drainage systems can become overwhelmed -

WGCU
Here and Now

serving actually as an entry point for floodwaters during high tides events and coastal storms."

The state-funded study is looking at the question of what parts of the city will be most affected by the inexorable rise of the oceans, and how the city can plan for its impact. That includes creative land use planning, and restrictions and regulations on building in low-lying areas.

Randy Goers, the city's planning director, said they'll be using science as a basis for their planning changes.

"We think this is going to start a discussion on sea level rise and regulation - which we don't expect an answer in this project, we expect to maybe have some ideas - but it will take several months of communication with our community," he said.

Planners will produce a report on best practices for both new developments, as well as for existing homeowners, who will be impacted by rising seas and want to know what they can do over time to minimize the impact. The study is scheduled to be completed by the end of April

3 Curves Recommended

Relative Sea Level Change Projections -
Gauge 8726520, St. Petersburg, FL

