Sea-level Rise and Law: Local Government Actions, Challenges, and Implications



Thomas Ruppert Coastal Planning Specialist



Overview

- Takings Law Introduction
- Infrastructure and Law
 - Roads
 - Drainage
 - Seawalls
 - Sewer/septic (just beginning)
- Policy Considerations
 - Fairness and "Notice"
 - SLR as driver to consider property law from a larger perspective



Takings" in the U.S. Constitution

with the state of the state of

MARKET THE WAR

To morshall private property be taken for public use; without just compensation.

The water state of the special state of the state of the

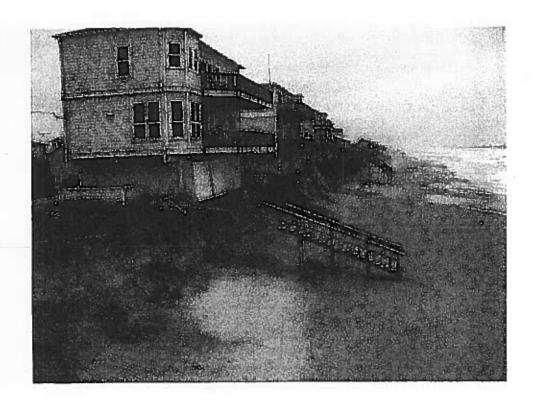
Bert J. Harris Act (Ch. 70)

- Inordinate burden on property
 - Lots of confusion due to similar language
- Focus on two types of "existing use"
 - Current
 - Future: rsbly foreseeable, non-spec, suitable for property, and compatible with adjacent land uses
- Definitions of "suitable" and "compatible" but no *in pari materia* interpretation
- Safest to regulate floodplains and flooding



Liability Takes Many Forms

- Refusal to permit
- Potential liability for permitting risky dev.
- Liability if local gov't causes flooding
 - Tort (civil damages) or
 "taking" of property (Drake v. Walton County, 6 So. 3d 717, 720-21 (1st DCA 2009))
 - Can be due to development approval
- Maintenance for new infrastructure in at-risk areas
- Increased costs for flood insurance







Jordan et al. v. St. Johns County

- 1950s Old A1A built after private properties purchased
- 1960 -- State of Florida reroutes to "New A1A"
- 1979 State deeds Old A1A to St. Johns County
- 2005 Temporary residential building moratorium enacted
- 2005 Complaint filed against St. Johns County
- 2008 Moratorium repealed
- May 2009 Summary Judgment for County granted on all Counts
- May 2011 Fifth DCA affirms in part (3 Counts) and reverses in part (2 Counts)
- December 2011 Florida Supreme Court declines review
- January 2013 Settlement Agreement with most property owners
- October 2016—Hurricane Matthew devastates area

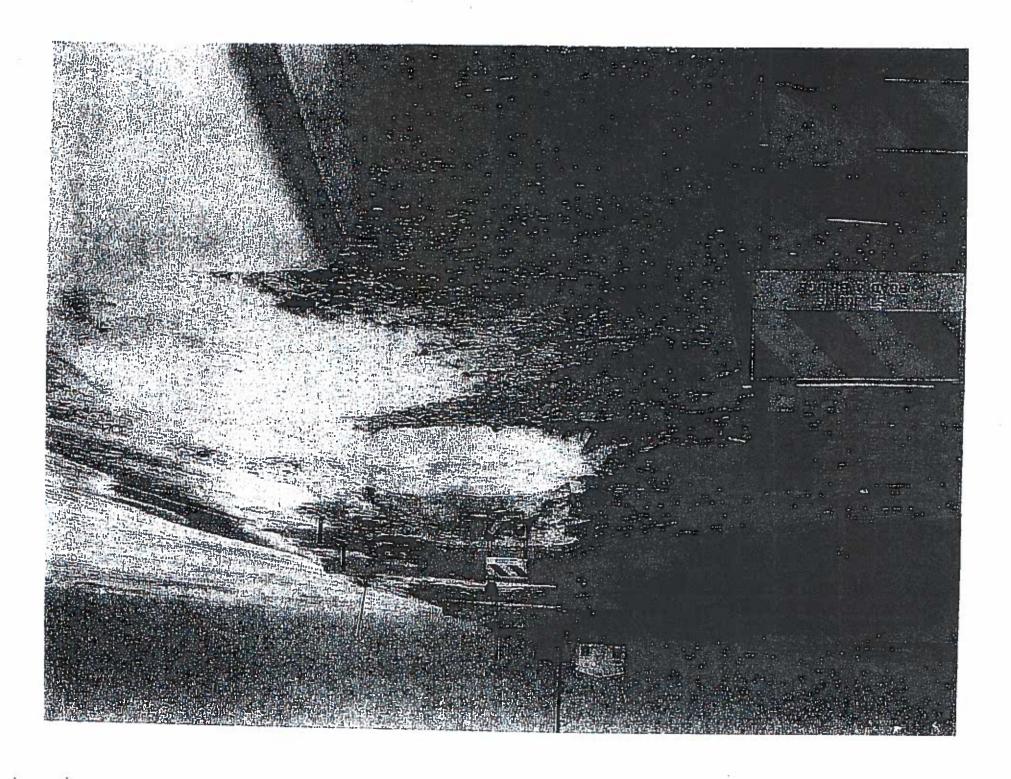


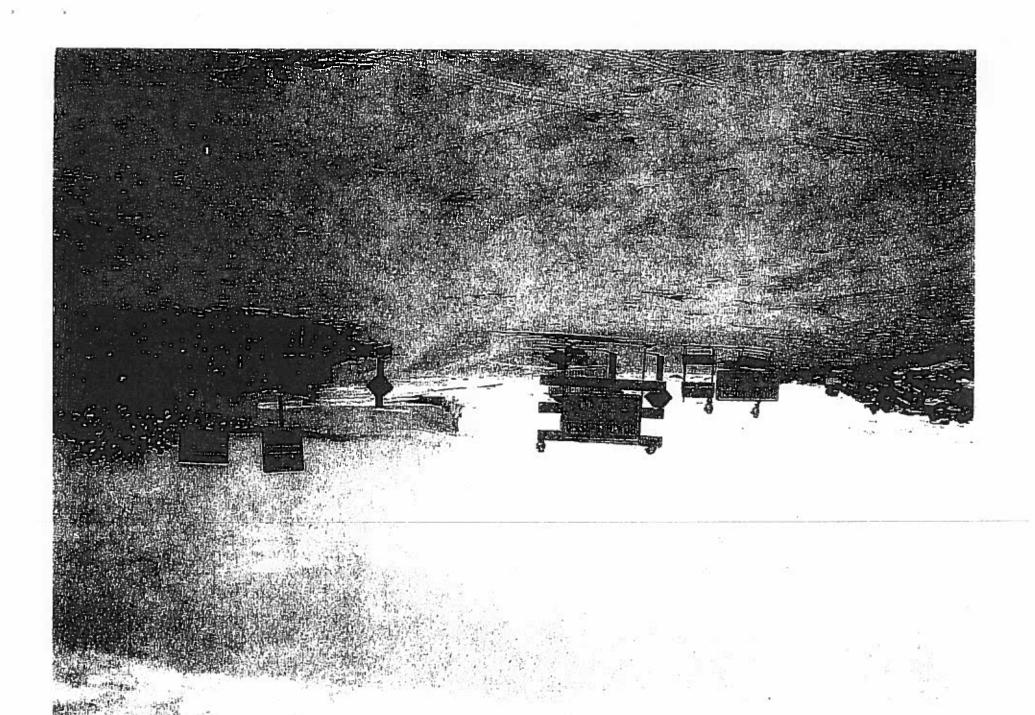
Some Key Facts

- 3 residences when County acquired in '79
- All owners that testified acquired <u>after</u> 1980
- Sporadic County maintenance
- County frustration expressed at meetings
 - Too expensive to maintain; study proving same
- More \$ from FEMA in 2000
- \$2.3 M from 2000-2005; avg. of \$244K/yr/mile
- 2008 study: ~\$13.1M plus \$5.7-8.5 M/3 yrs
- Responded to all emergency calls



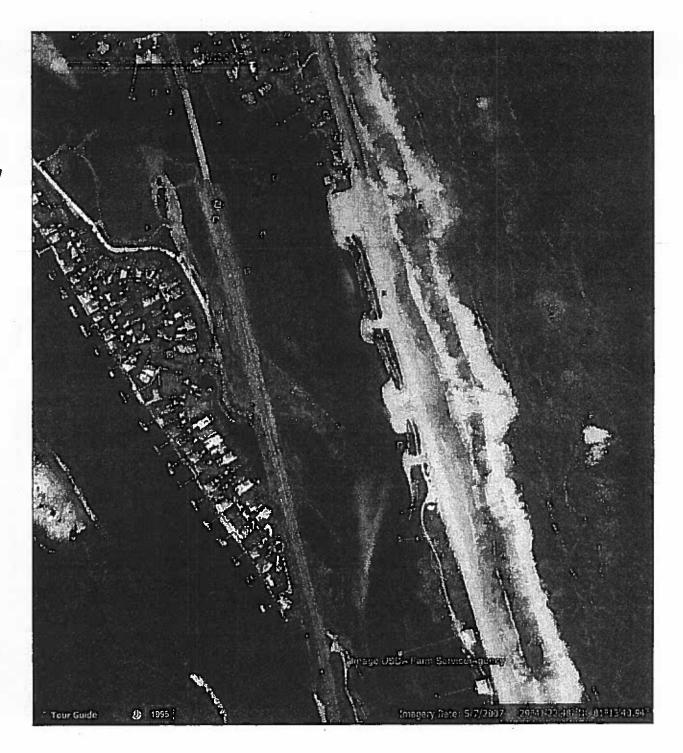






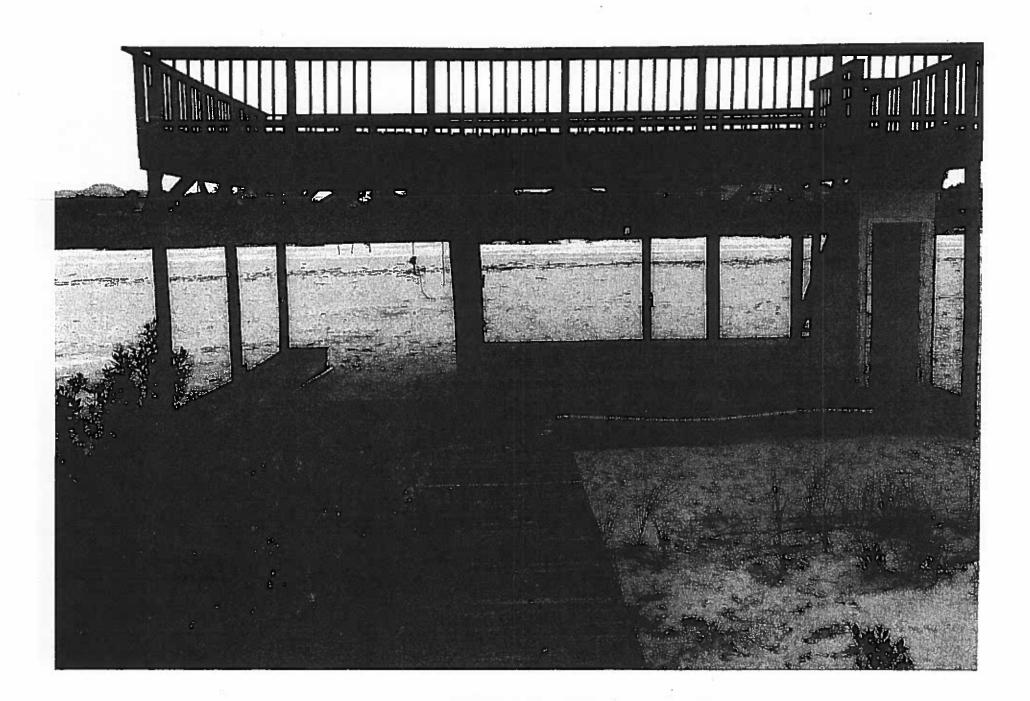


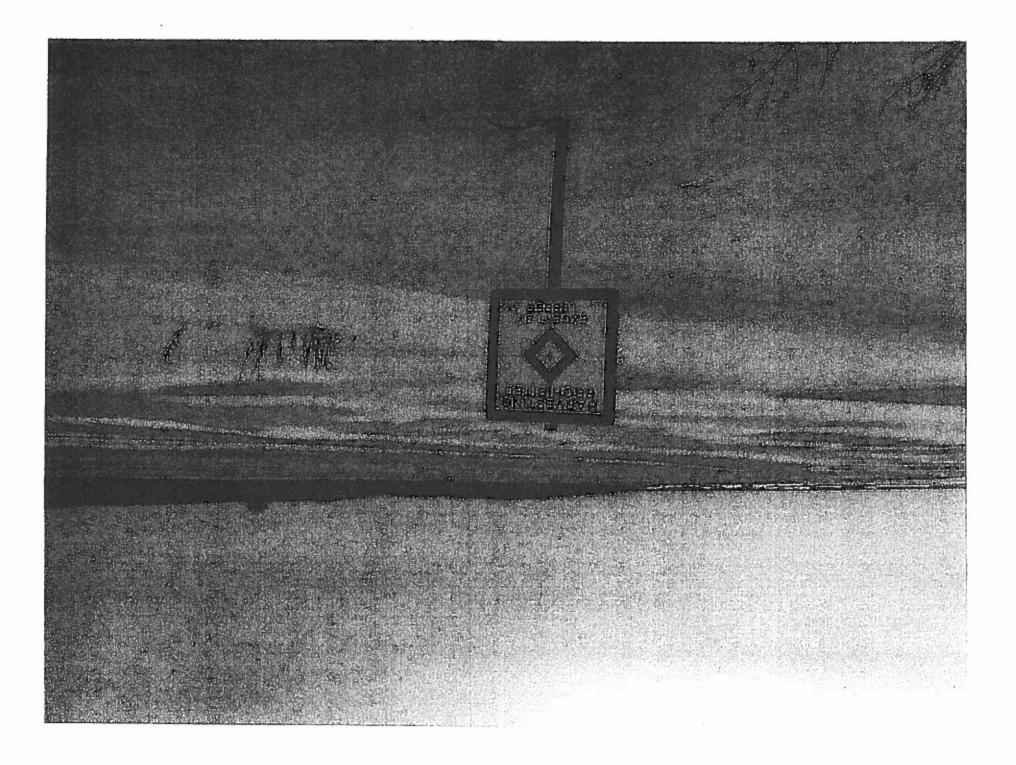
11.12.2007





15.6.2010





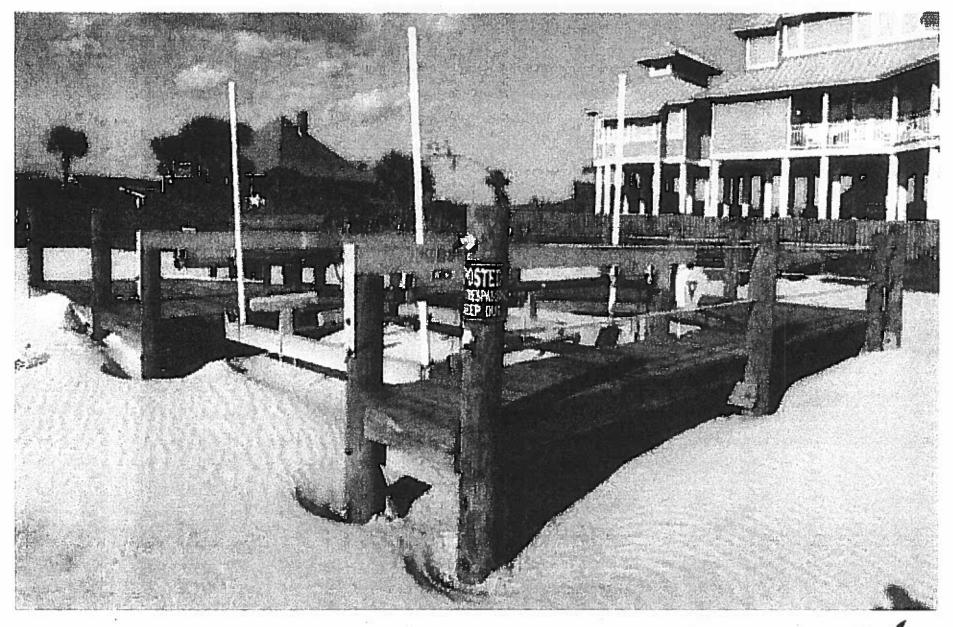
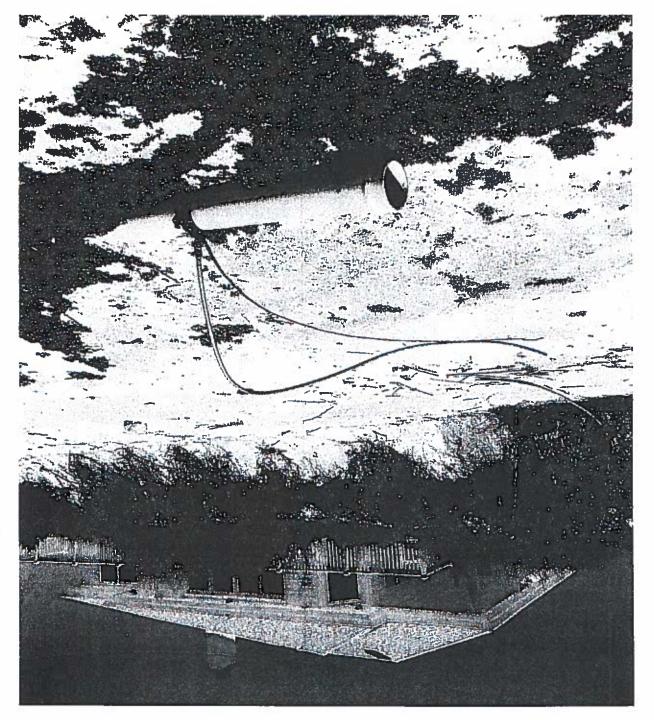


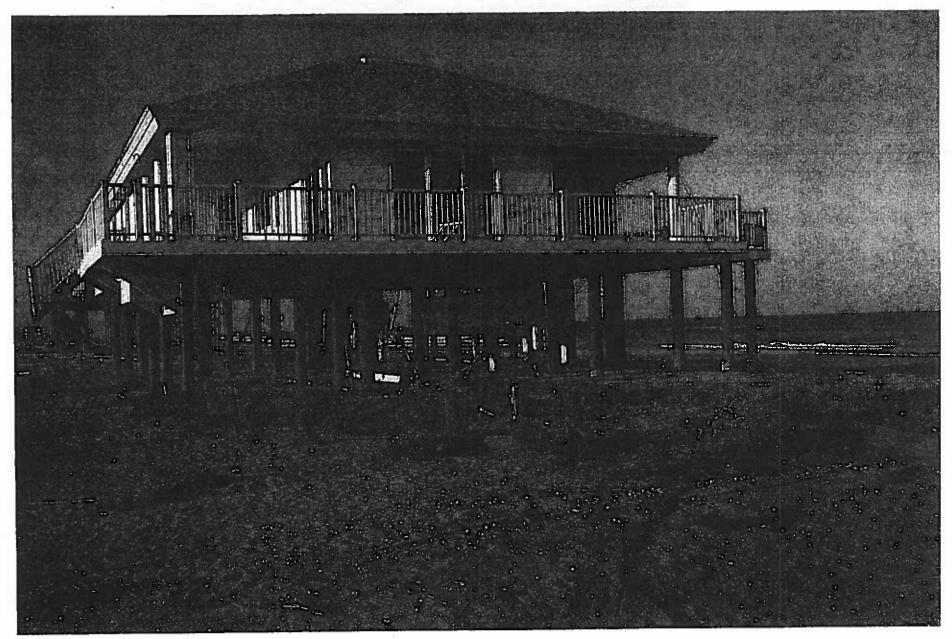
Photo: St. Augustine Record newspaper



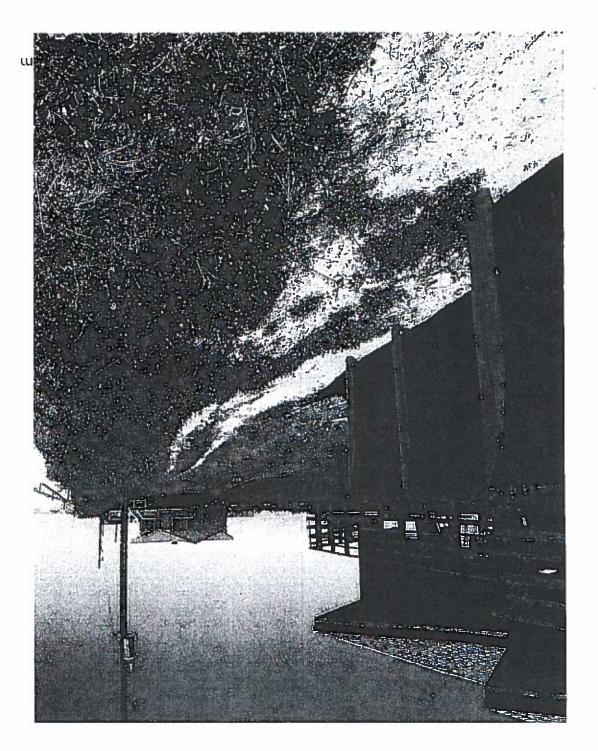


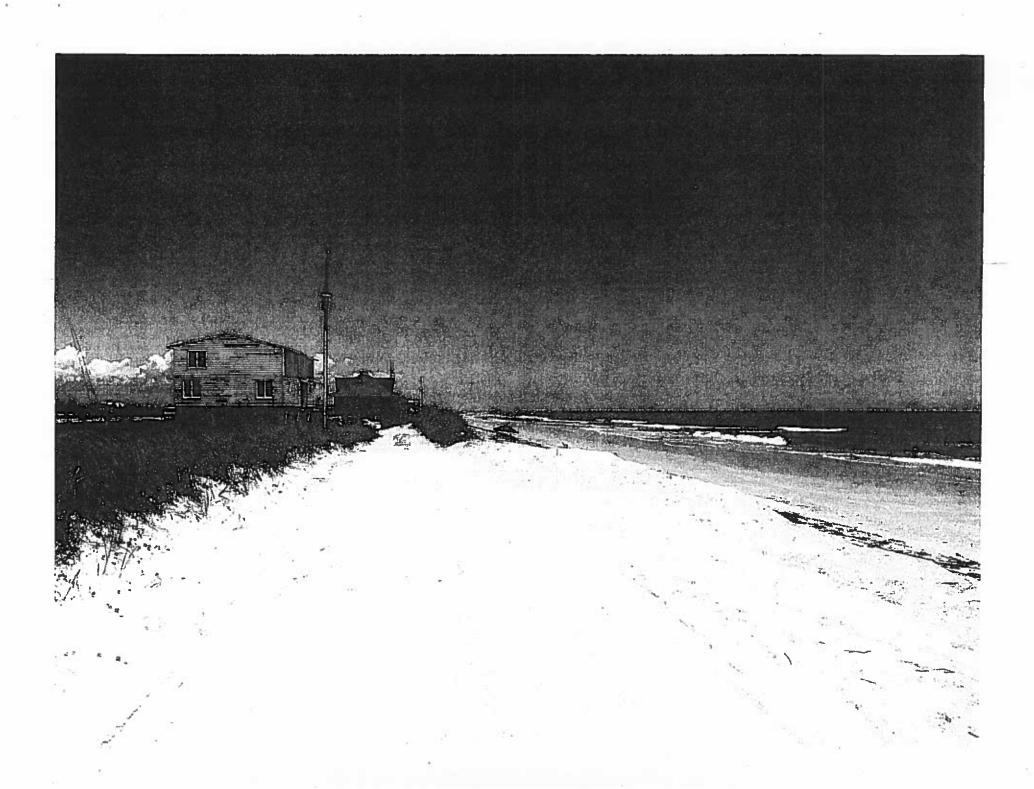


Same house after Hurricane Matthew









Trial Court

- Non-interference of courts:
 - "An action taken by the majority board of a county commissioners on any subject within the authority given such board by statute is not reviewable by courts, in absence of fraud or abuse of discretion clearly shown."
 - "A court cannot invade the administrative duties of a board of county commissioners, but can only determine whether their action was illegal vel non."
 - "The courts cannot interfere with a government's discretionary judgmental decisions."

Trial Court (cont.)

- Natural forces were "action" that deprived owners, not any action of county
 - "This Court is also unaware of any Florida case holding that governmental inaction can be the basis for a loss of access inverse condemnation claim."



"The decision to build or change a road, and all determinations inherent in such a decision, are of the judgmental, planning-level type. To hold otherwise would ... supplant the wisdom of the judicial branch for that of the governmental entities whose job it is to determine, fund, and supervise necessary road construction and improvements, thereby violating the separation of powers doctrine."

Dept. of Transp. v. Neilson, 419 So.2d 1071, 1077 (Fla. 1982)



DUTY TO MAINTAIN ACCESS (St. Johns County's View)

"It is well established that decisions concerning the maintenance of and need to construct roadways, bridges, and other similar services are political questions outside the purview of the courts."

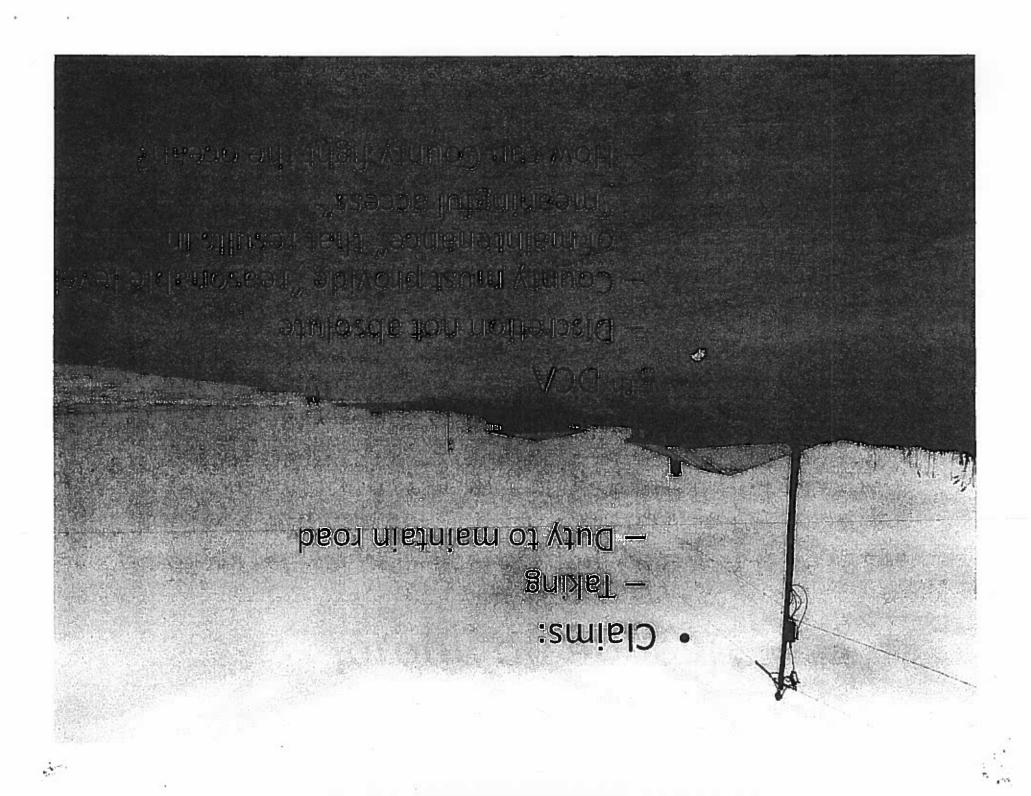
Gargano v. Lee County Board of County Commissioners, 921 So.2d 661 (Fla. 2d DCA 2006)



"A governmental entity's decision not to build or modernize a particular improvement is a discretionary judgmental function with which we have held that the courts cannot interfere."

Trianon Park Condo. Ass'n. v. City of Hileah, 468 So.2d 912, 920 (Fla. 1985)





Jordan on appeal?

State ex rel. White v. MacGibbon, 84 So. 91 (Fla. 1920)
Holding: BCC had standing to sue to force County Clerk
to expend funds for road construction that BCC had
authorized.

"Under our statutes, boards of county commissioners are given plenary power and authority over the location, building repairing, and keeping in order the public roads in their respective counties...

and it is made one of their continuous duties to locate, build, repair and keep roads in good order."

Id. at 82



Ecological Development, Inc. v. Walton County, 558 So.2d 1069 (Fla. 1st DCA 1990)

Holding: Walton County could not place county roads in a "no maintenance" status and retain them as public thoroughfares.

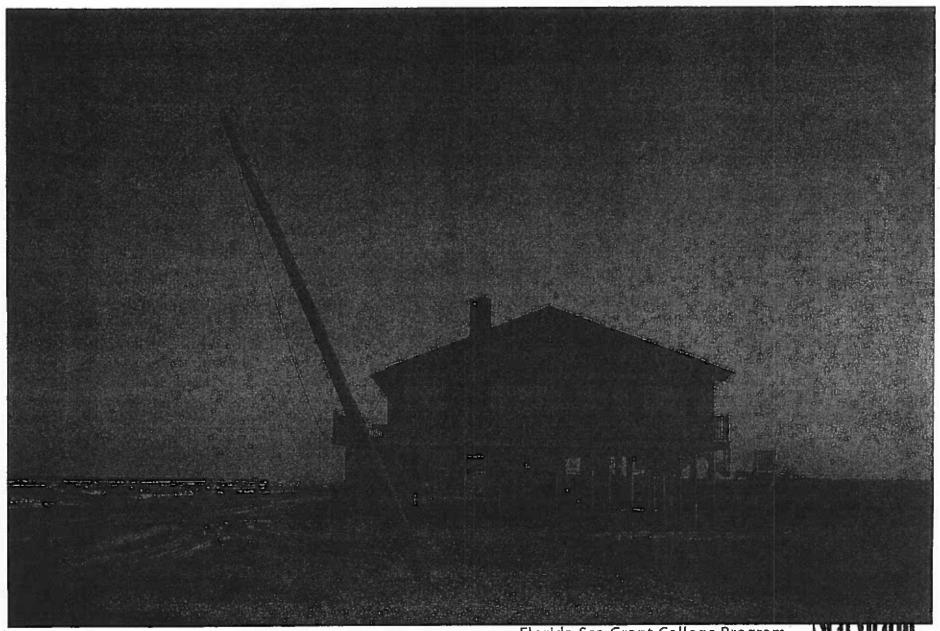
(Citing *MacGibbon* for that proposition)



Settlement Agreement Excerpt from Summer Haven Case

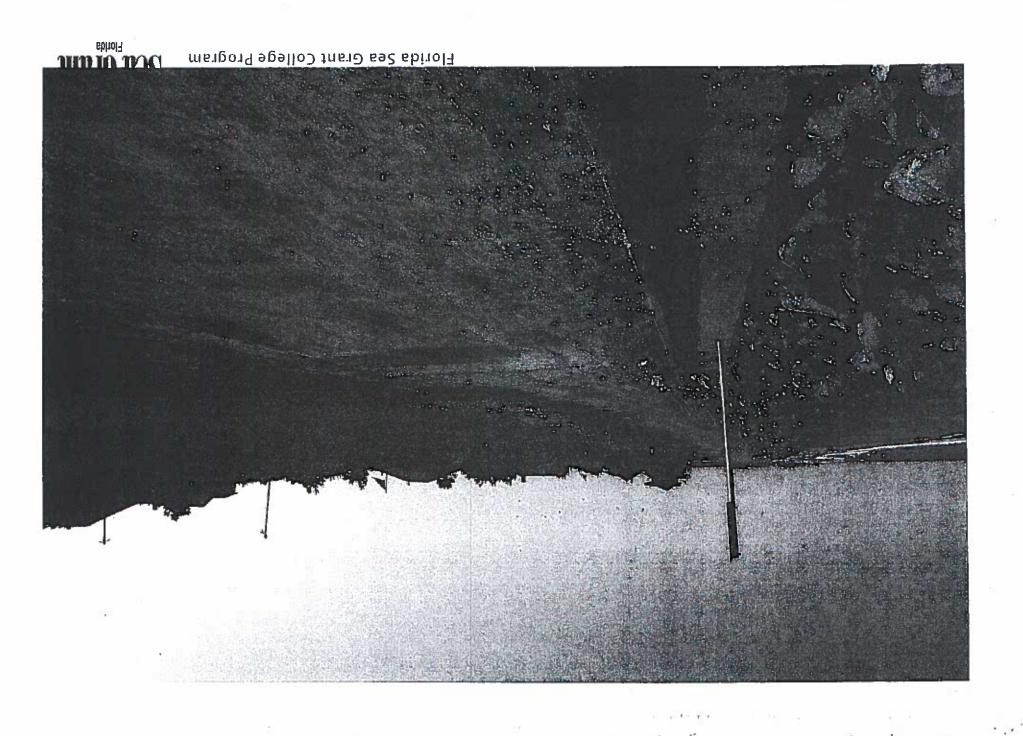
If a catastrophic weather event occurs that destroys a substantial portion of any part of the paved or unpaved portion of the Old A1A right-of-way from Blocks 66 to 23, the County agrees to make timely and good faith efforts to obtain State, Federal, and/or other available funds to restore, to the greatest extent reasonably possible, the condition of Old A1A from Block 66 to Block 23 as it existed as of the date of this Settlement Agreement and Release, subject to any regulatory limitations imposed upon the County in making this effort. The County also agrees that it will, prior to obtaining any available State or Federal funds, and subject to other demands placed upon the County resources by said catastrophic weather event, make timely and good faith efforts to provide temporary vehicular access to all properties from Block 66 to Block 23,





Florida Sea Grant College Program

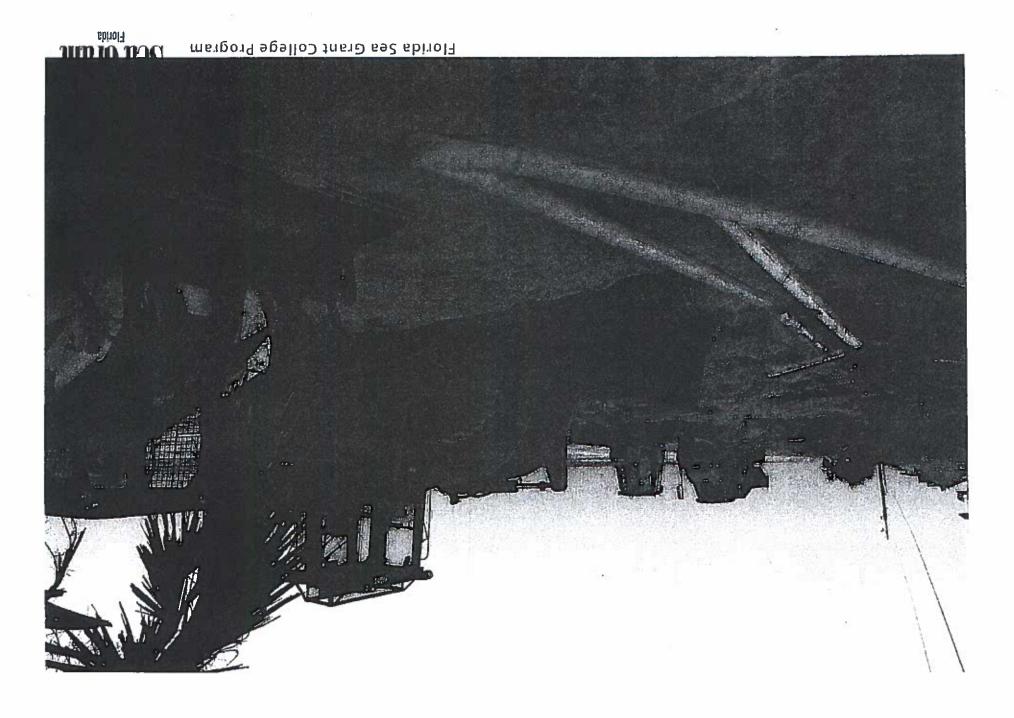
Scar VI WILL Florida



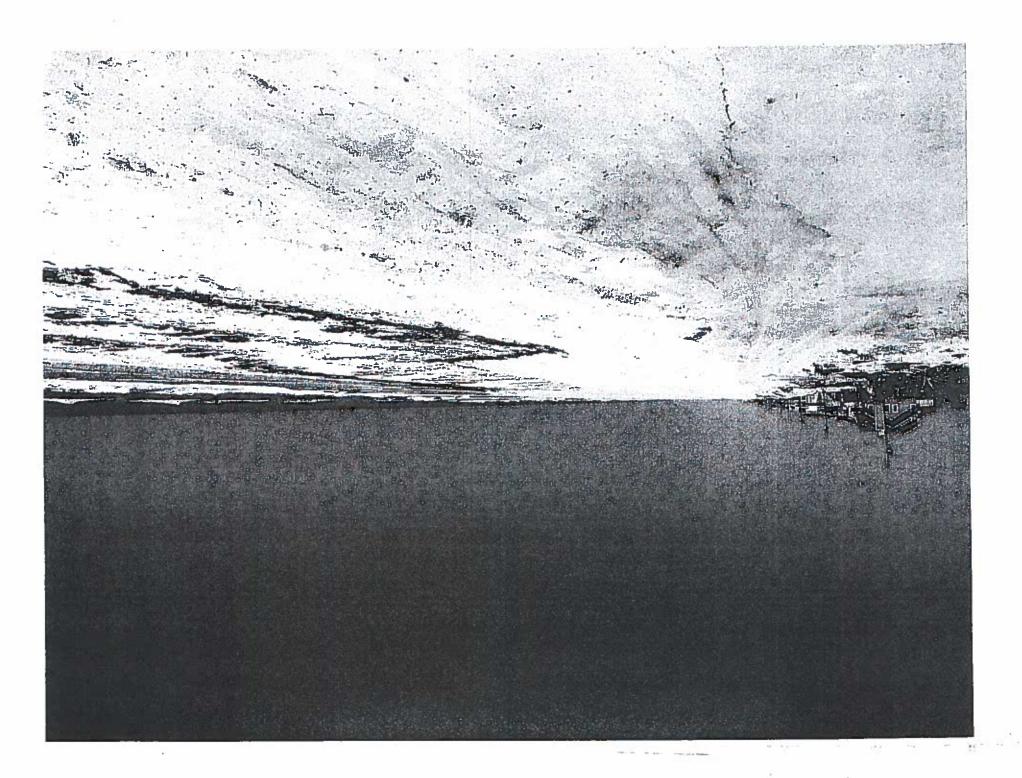


Florida Sea Grant College Program

Florida



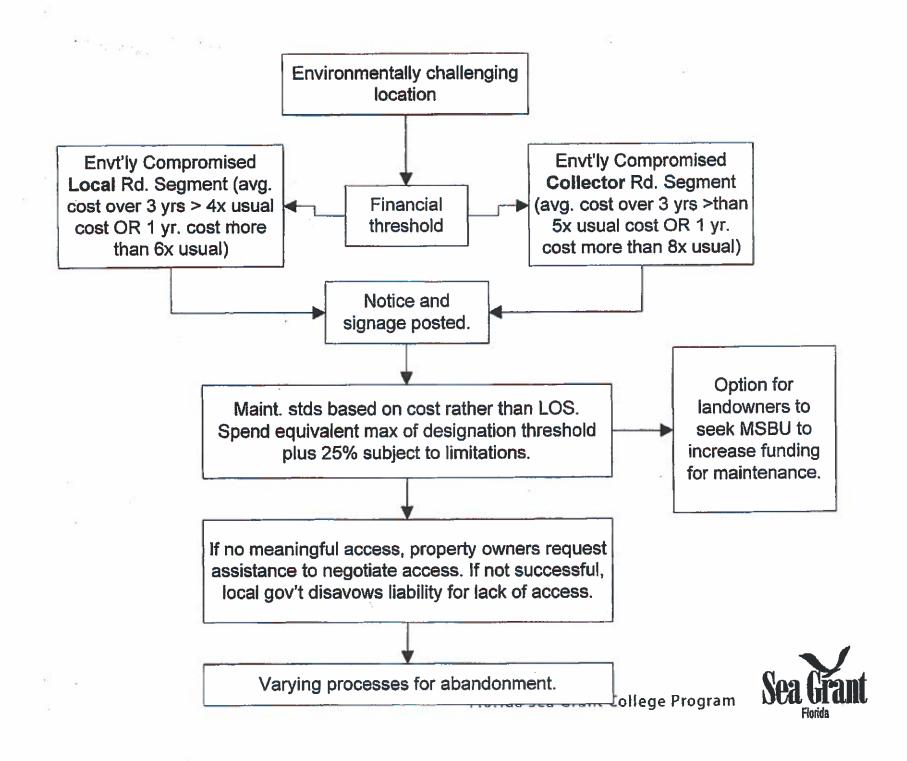




Overview of Ordinance

- Sets financial criteria thresholds
- Exceptions to LOS for "environmentally compromised road segment"
- Must add signage to designated roads
- Assistance in negotiation if a lack of "meaningful access"
- MSBU option for additional funding
- Abandonment procedures outlined





Definitions

- LOS: County-defined level of service for roads
- Envt'lly challenging location: typical road constr., maint.,
 or stds. infeasible to meet due to naturally occurring
 conditions
 - Repeatedly damage or threaten road to extent that not safe;
 - Repair, maint. requires materials, processes, or techniques not standard for other roads in county;
 - Presence, maint. or repair has detrimental impact on natural resources; or
 - Location of road requires permitting or mitigation from federal or state authorities for activities that otherwise are considered routine maintenance.



Definitions (cont.)

"Envt'lly compromised local road segment"

usual cost per mile

- Annual per-mile cost avg. over 3 yrs. for typical maint. is 4x
 or more usual cost per mile; or
- or more usual cost per mile; or Annual per-mile cost in 1 yr. for typical maint. Is 6x or more
- usual cost per mile "Envt'lly compromised collector road segment"
- Annual per-mile cost avg. over 3 yrs. for typical maint. is 5x
- or more usual cost per mile; or Annual per-mile cost in 1 yr. for typical maint. Is 8x or more
- Sea Grant

Purposeful Design

- Focus on PROCESS
- fiscal backstop
- minimize risk of successful legal claims
 - Possible sovereign immunity from tort claims
 - Takings claims difficult;
 only court decides





Limitations

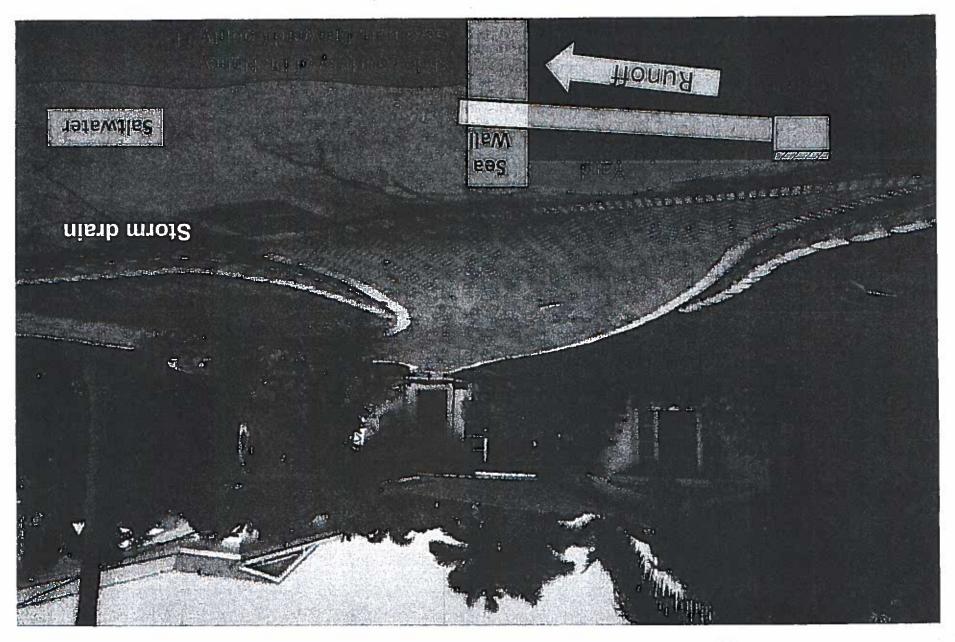
- No guarantee against lawsuits or judgments
- Varies in how appropriate it is for roads
 - Best for smaller roads and those that have some other route available
 - More difficult when only access or main thoroughfare



SLR, Drainage, and Local Governments



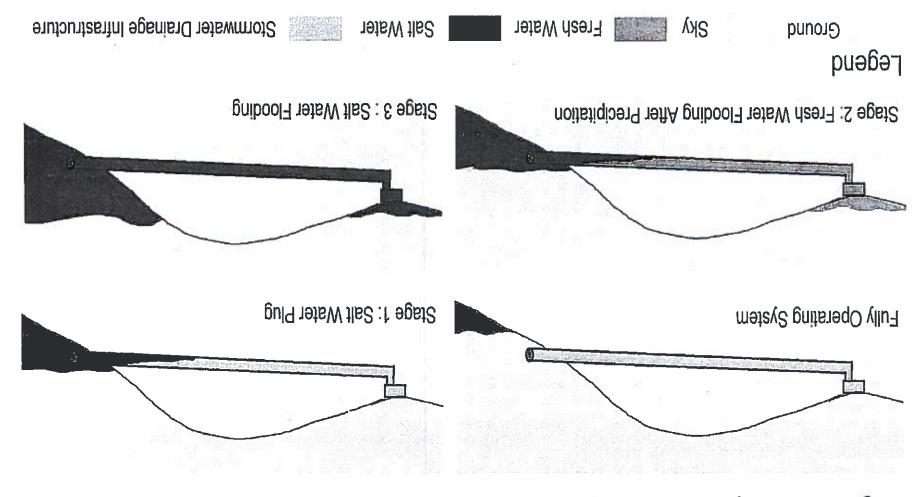
Drainage Under Average Tidal Conditions



Drainage Challenge with Sea Level Rise



Figure 1: Stages of Stormwater Infrastructure Failure due to Sea Level Rise





The Florida Bar Journal

Advertising Rates • Submission Guidelines • Archives • Subscribe • News

November, 2013 Volume 87, No. 9

Drowning in Place: Local Government Costs and Liabilities for Flooding Due to Sea-level Rise

by Thomas Ruppert and Carly Grimm

- No duty of local gov't to provide drainage
 - As with many services, authority or power to provide, but not duty (fire, police, etc.)
- However, if provided, duty to maintain arises
 - Maintenance must be done with reasonable care
 - Liability for failure to maintain



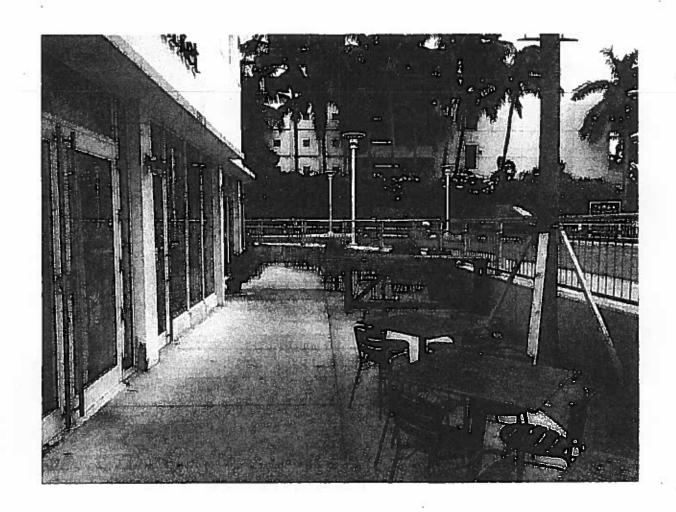
Maintenance vs. Upgrade

- Immunity through "planning" vs. "operational" distinction
 - Immunity for planning as this is legislative
 - No immunity for "operations;" always a duty to act with reasonable care to avoid harm to others



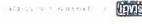
Florida Sea Grant College Program

The Miami Beach Example





The Miami Beach Example



Flood claim denied for restaurant turned 'basement' after Miami Beach raised street



Miami Beach to begin new \$100 million flood prevention project in face of sea level rise



During a breavy rainsform on the night of Oct. 3, the sidewalk cutaide Sardinia Enoteca Asicoranie in Mismi Boach Rooded, spilling water into the business alter the city falled to lurn on nearby stormwater pumps. Sardinia Enoteca Ristorante



miamibeach

cityvide

south beach

rind beach

homeowners to tie into stormwater system without charge

April 28, 2017



To Charge or Not to Charge?



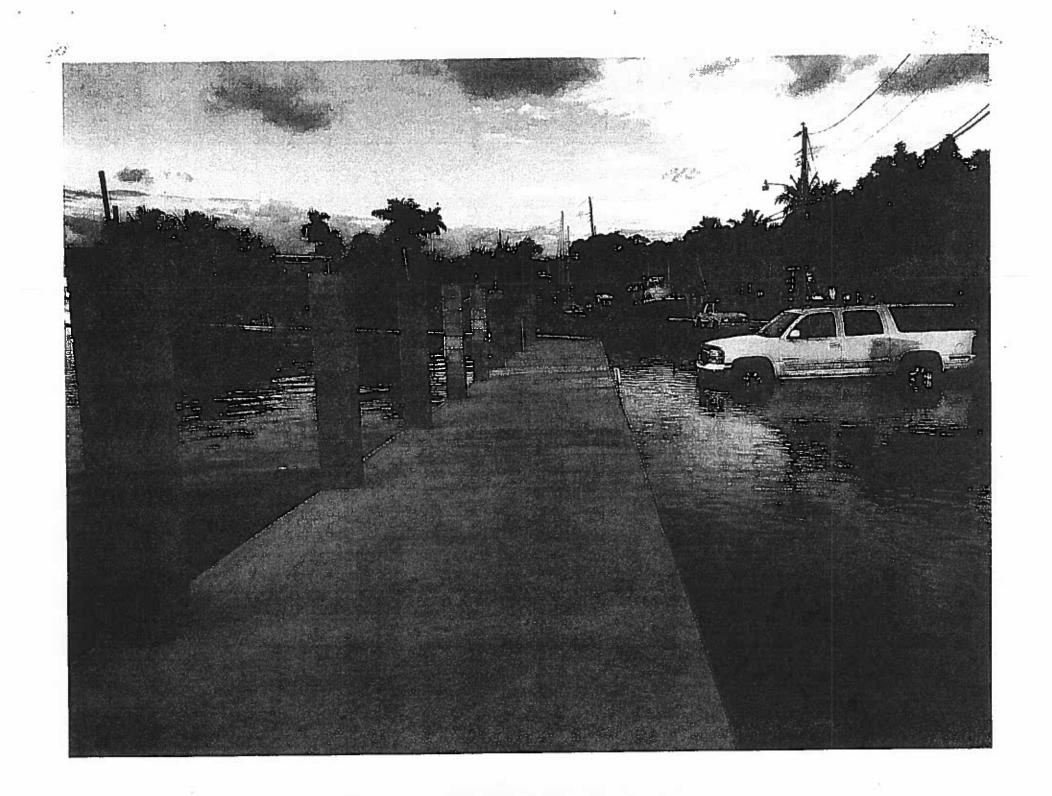
susan askew





SLR, Seawalls, and Local Governments









Memorandum

Memorandum No: 17-016

Date:

January 26, 2017

To:

Honorable Mayor and Commissioners

From:

Lee R. Feldman, ICMA-CM, City Manager Infilm

Re:

Enforcement of the City's Seawall Ordinance - ULDR Section 47-19.3

As you are aware, the City of Fort Lauderdale adopted amendments to ULDR Section 47-19.3 on June 21, 2016 (CAM #16-0662) to establish construction standards that ensured seawalls and similar structures contributed to coastal resilience and mitigated the effects of tidal flooding and sea level rise. The ordinance included two provisions under which a property owner may receive a code violation:

- 1. Failing to maintain a seawalls in good repair and setting a timeline of 365 days for completion of repairs if cited: and
- 2. Requiring owners to prevent tidal waters entering their property from impacting others properties or the public right of way and setting a timeline of 365 days for remedy if cited.

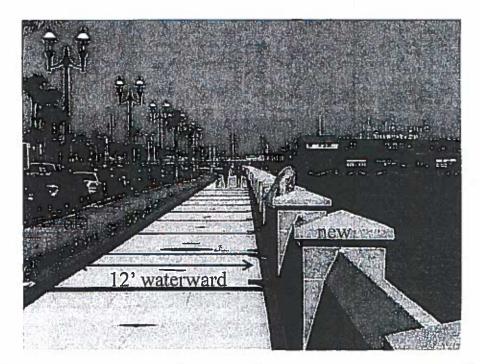
New Sea Wall Ordinances

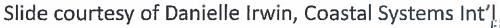
- Miami Beach
- Fort Lauderdale
 - Citation for allowing salt-water to flow over your property and flood others
- And many others already done or working to establish new minimum heights
- Who should have to pay?
- How do you balance the rights at stake?

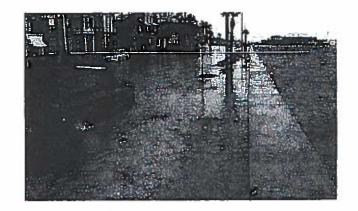


St. Augustine's Avenida Menendez Seawall becomes resilient

- Historic preservation / flood protection project
- Cat 1 storm surge (7.4' above MSL)
- Revamped drainage system, added promenade
- •1200' long; \$6.7M (FEMA & City funded)



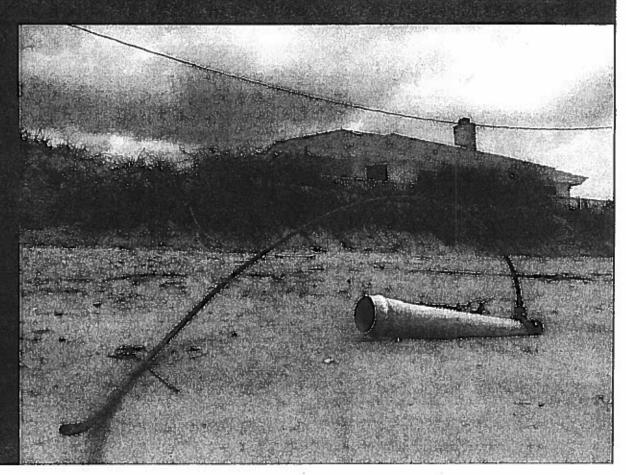








Septic, Sanitary Sewers, & Local Governments

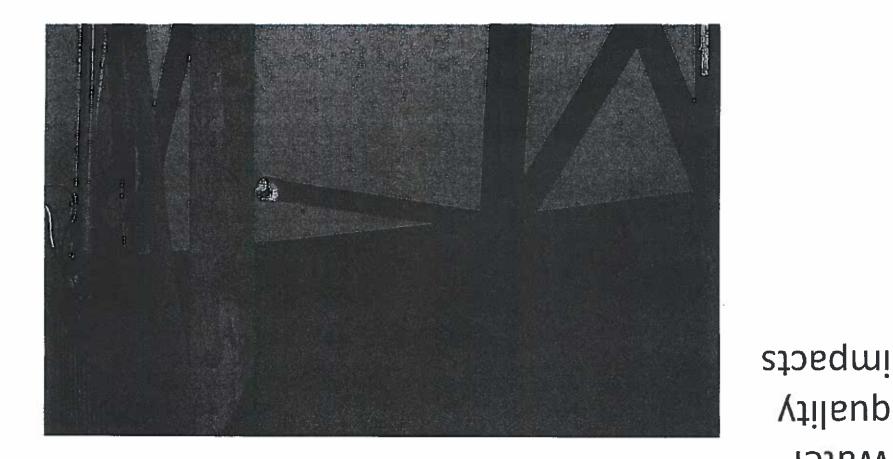


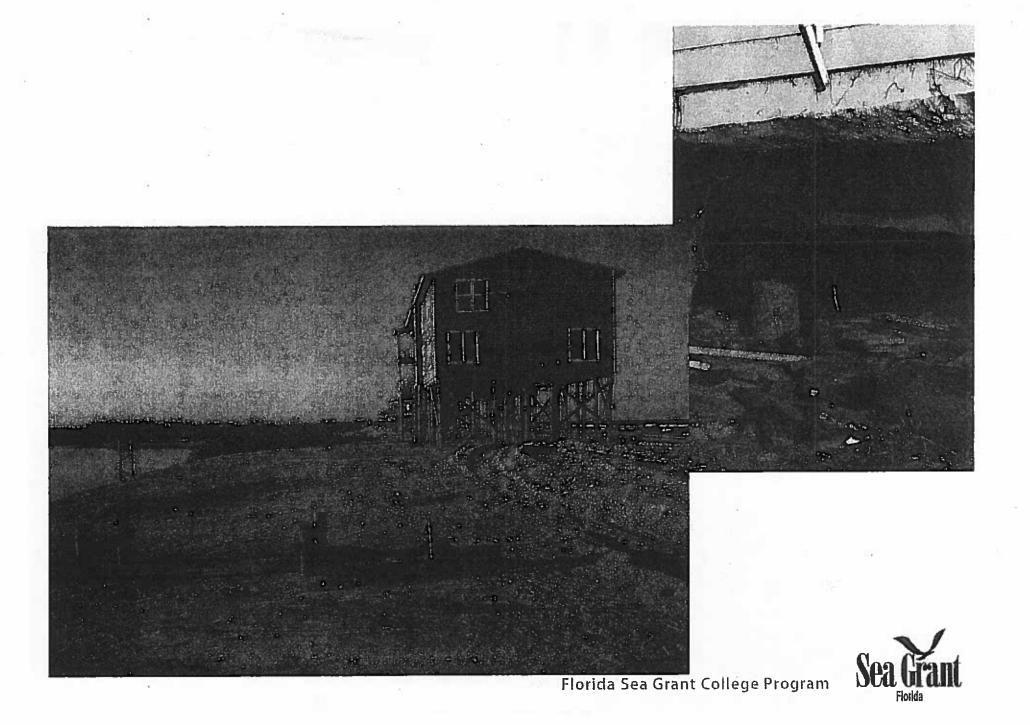
Why care about this?

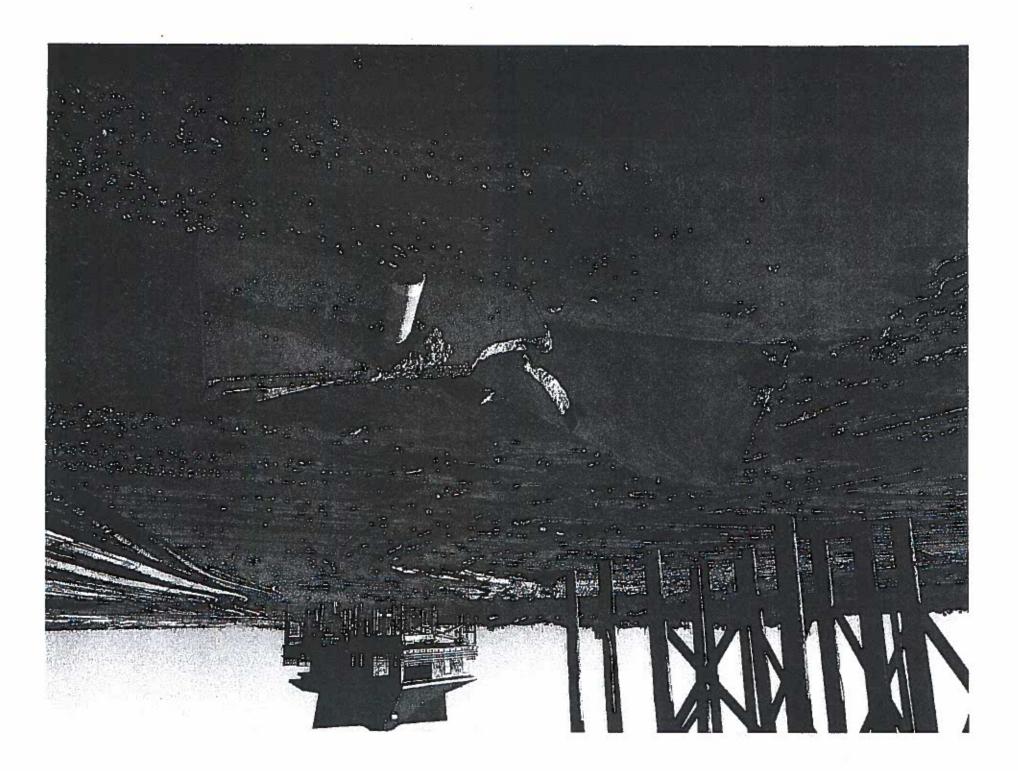
Cost and efficacy of systems

quality

Water







SLR, Finances, and Local Governments

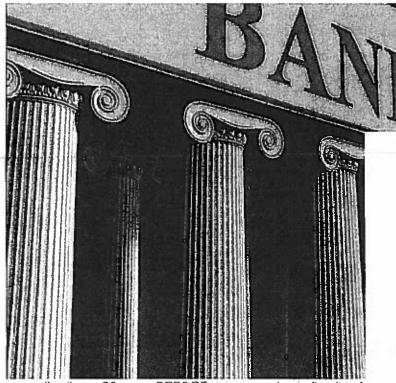
Florida Sea Grant College Program



Where's the Money?

- Increasing infrastructure costs
- Tax revenues decreasing?
- How to limit local gov't expenditures?
 - Model ordinance for environmentally compromised roads?
 - Increased use of MSBUs?
 - More bonds? Ratings linked to resilience?
 - Buyout programs? Additional issues. . . .





Florida real estate prices will collapse 30 years BEFORE rising seas begin flooding le

The Day the Banks Abandon Florida

http://m.dailykos.com/story/2015/12/20/1462300/-The-Day-the-Banks-Abandon-Florida

FitchRatings

Sea Level Rise May Pose Challenges For Some US Local Governments

Sea level rise already affects some communities and in the long term may pressure some communities' operations, capital funding requirements, and indebtedness.

Sea levis me la la mandestamio i di popus plinate idurige that in armadi, having distributio effects en conferences stanted accept the tim coasts. But a stante forgithmed descape data expends exerts south at himselfes and others anged recent risk) in actition to more remaining them previously there previously many and permanent total of their fine previously many admittances and for previously the property and the coasts and the coasts.

To their transcentions has early played a malescal rine of highly assessment of the hardomentar result that accepts of more distrated inverse. If their special terrors. Event Rose and Overall their Repairing players where desire there are trained from the first the effects of sea upon can upon random could be desired to desire the effects of sea upon can upon random could be desired to desire the entire trained trained to desire the entire trained to desire the entire trained to desire the entire trained train

Sea Level Rise Increasingly Important in Government Planning

Managal unity operation of constant and a consequence of the incidence of four two server is an affect order stants as vertail for reliable of which is sufficient to treat according and exploration observed on the desire of the desire of the according between the entering the content of the entering of the entering follower is not protecting to be inside properties and provide requirements and in the according to the light of the content of the entering of the entering properties and the entering the entering of the entering of the entering the entering of the entering the entering the entering of the entering the entering of the entering the entering the entering of the

Responding to Change: Coastal Areas

OFFICIAL FILE COPY CLERK OF THE BOARD OF COUNTY COMMISSIONERS MIAMI-DADE COUNTY, FLORIDA

MEMORANDUM

Agenda Item No. 11(A)(17)

TO:

Honorable Chairwoman Rebeca Sosa

and Members, Board of County Commissioners

DATE:

May 6, 2014

FROM:

R. A. Cuevas, Jr.

County Attorney

SUBJECT:

Resolution setting policy for Miami-Dade County; directing the Mayor to require all County infrastructure projects to consider potential impacts of sea level rise during all project phases

Resolution No. R-451-14



Satellite Beach

Objective 1.4A The City shall strive to reduce the exposure of human life and public and private property to natural hazards while reducing the cost of flood insurance.

Policy 1.4A.1 - The City shall initiate a public process to identify Adaptation Action Areas (AAAs) in accordance with Sections 163.3164(1) and 163.3177(6)(g)10 Florida Statutes. The purpose of the AAAs is to increase grant and other funding opportunities and identify creative solutions to achieve the following goals: • Protect the health, safety and welfare of residents, • Prevent damage to public and private property, and • Reduce National Flood Insurance Program premiums to property owners.

Summary and Commentary on Sea-Level Rise Adaptation Language in Florida Local Government Comprehensive Plans and Ordinances¹

By: Thomas Ruppert, Esq.² & Alexander Stewart³

July, 2015

https://www.flseagrant.org/wp-content/uploads/Ruppert-Updated-Sea-Level-Language 7.2.15.pc

I. In	troduction3	
II. Co	ounties8	
1)	Brevard County	
2)	Broward County 8	
3)	Charlotte County16	
4)	Collier County	
5)	Dade County 17	
6)	Monroe County	















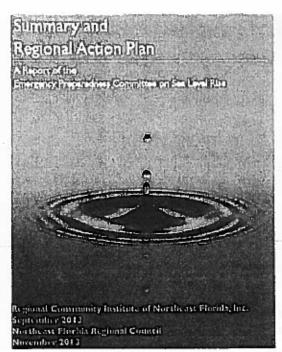


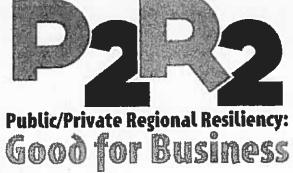




Florida Climate Institute







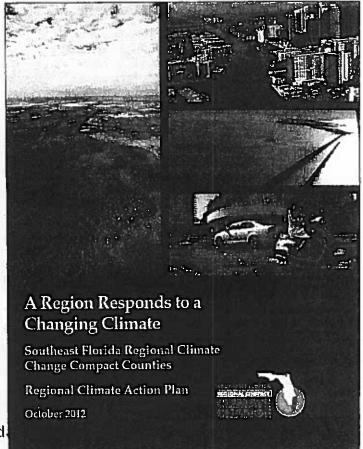
RECOMMENDATION FOR A UNIFIED PROJECTION OF SEA-LEVEL RISE IN THE TAMPA BAY REGION

Tampa Bay Climate
Science Advisory Panel



Libby Carnahan Sea Grant Agent





Laving Together and with Rising Waters



Millions projected to be at risk from sea-level rise in the continental United States

Mathew E. Hauer^{1*}, Jason M. Evans² and Deepak R. Mishra³

Sea-level rise (SLR) is one of the most apparent climate change stressors facing human society1. Although it is known that many people at present inhabit areas vulnerable to SLR^{2,3}, few studies have accounted for ongoing population growth when assessing the potential magnitude of future impacts4. Here we address this issue by coupling a small-area population projection with a SLR vulnerability assessment across all United States coastal counties. We find that a 2100 SLR of 0.9 m places a land area projected to house 4.2 million people at risk of inundation, whereas 1.8 m affects 13.1 million people—approximately three times larger than indicated by current populations. These results suggest that the absence of protective measures could lead to US population movements of a magnitude similar to the twentieth century Great Migration of southern African-Americans⁵. Furthermore, our population projection approach can be readily adapted to assess other hazards or to model future per capita economic impacts.

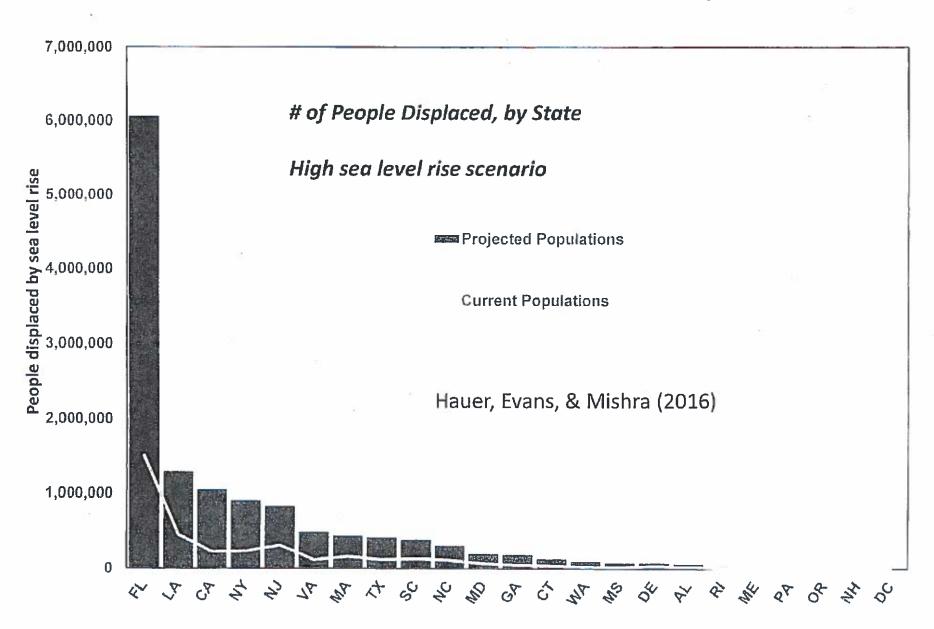
data (that is, elevation and associated flood risk) with small-area population projections developed with a modified version of the Hammer method^{17,18} in a dynamic flood hazard model. By spatially and temporally aligning small-area population projections from coastal states in the continental United States (US) to 2100, we are able to assess who could be at risk from future SLR.

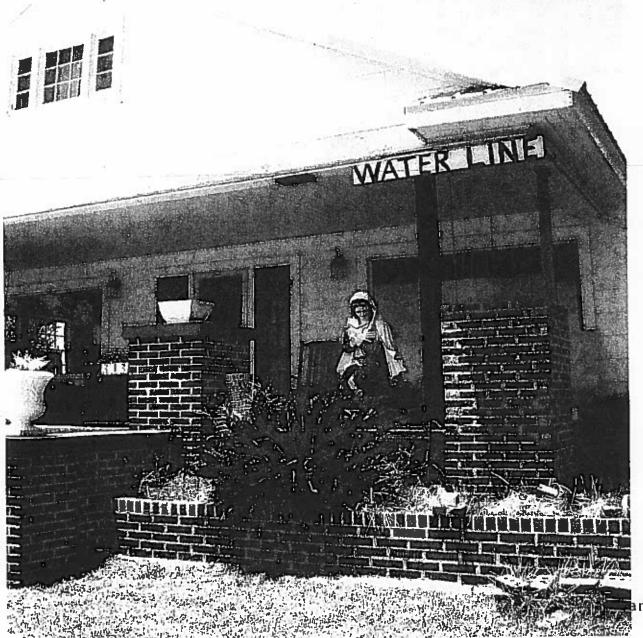
This approach addresses two fundamental questions concerning the vulnerability of future coastal populations in the United States: How many people are potentially at risk of impact from SLR? and What areas in the US are likely to experience the greatest population exposure to SLR? Accordingly, our results can be used to inform local adaptation infrastructure and growth management strategies, alerting officials to the areas where interventions and policies are most needed.

We assess the populations at risk of SLR by using the National Oceanic and Atmospheric Administration's (NOAA) 0 m through 1.8 m (6 feet) SLR data sets for twenty-two coastal states and the



Population growth = Underestimation of problem

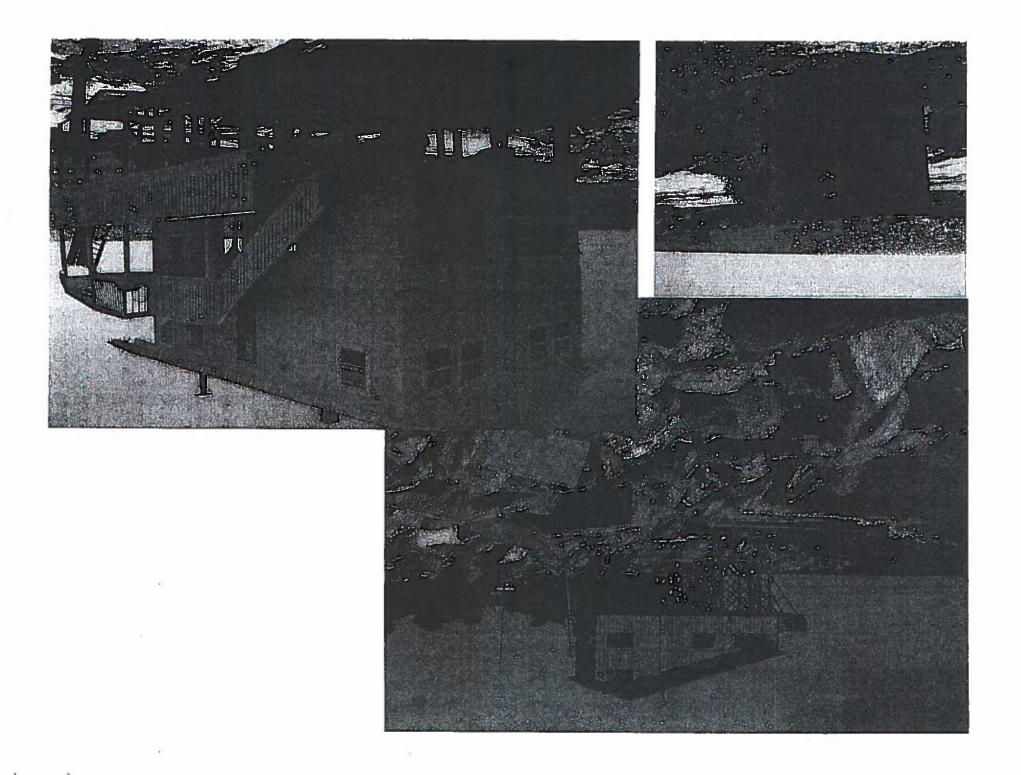




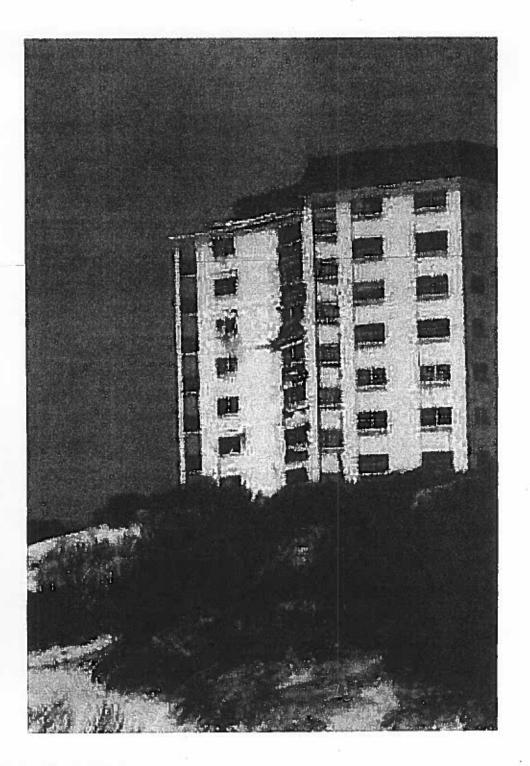
Is It Fair?

Hurricane Katrina high water mark





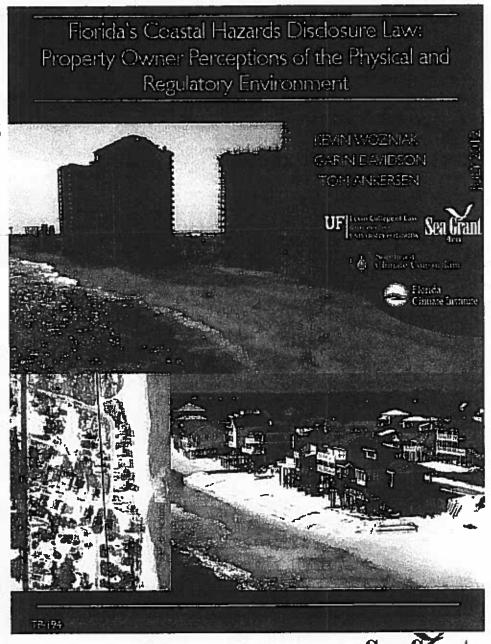






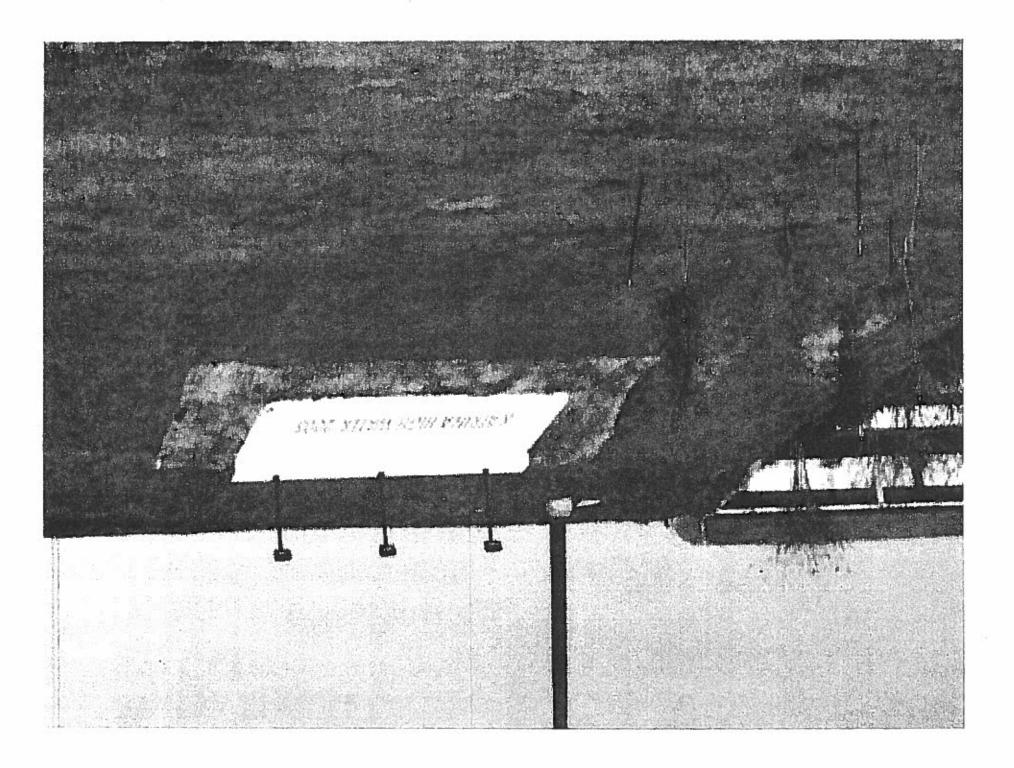
Florida Statute§161.57

"The Legislature finds that it is necessary to ensure that the purchasers of interests in real property located in coastal areas partially or totally seaward of the coastal construction control line as defined in s. 161.053 are fully apprised of the character of the regulation of the real property in such coastal areas and, in particular, that such lands are subject to frequent and severe fluctuations."



Florida Sea Grant College Program





Bay St. Louis officials oppose Hurricane Katrina high-water markers on highway

Published: Saturday, July 23, 2011, 9:00 PM

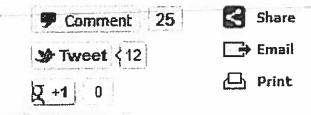


By The Associated Press

A Follow

Recommend

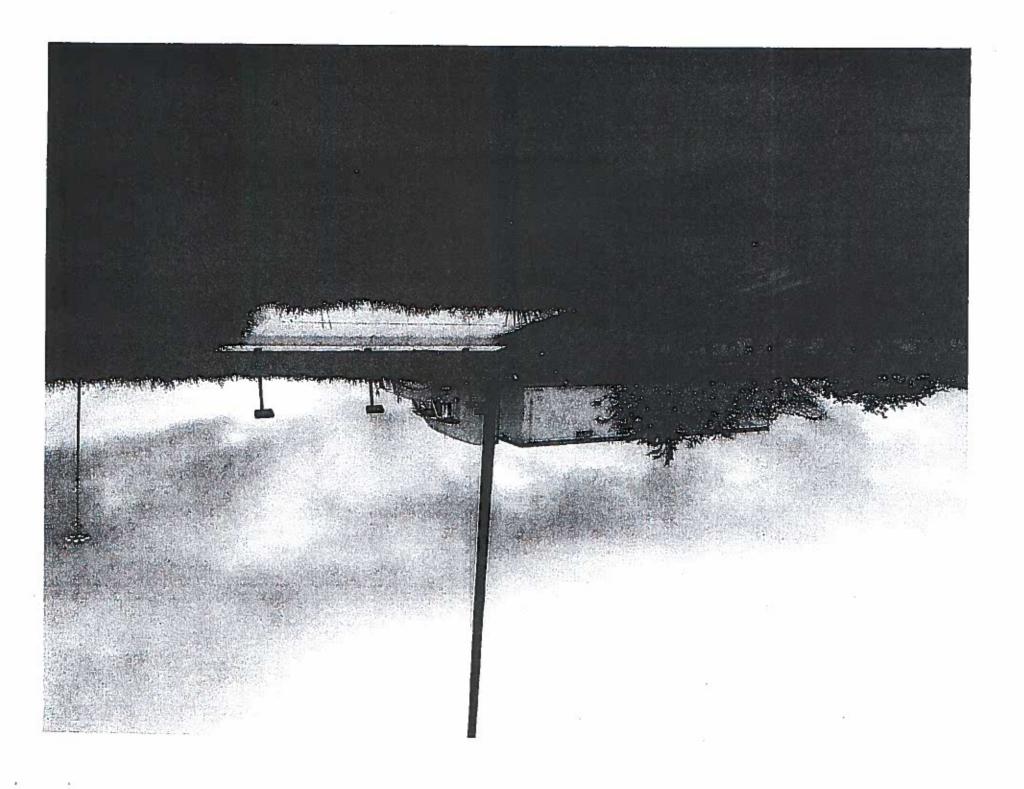
9 recommendations. Sign Up to see what your friends recommend.



Bay St. Louis, Miss., officials want **high-water markers** placed by the state at Mississippi Highway 603 and Interstate 10 camouflaged so they no longer commemorate the tragedies of **Hurricane**Katrina in 2005.



The Sea Coast Echo reports there are two high-water markers at the intersection, one facing north and the other facing south on Mississippi 603. They were placed there following Katrina to commemorate the area's comeback from the killer storm. In Katrina, water ran up the roadway so



Potential Legal Import of Notice

- Penn Central's 3-part analysis
- "Reasonable investment-backed expectations"
- How might notice affect expectations????
- "Acknowledgement" not a problem
- Questionable: waiver/release, assumption of the risk, hold harmless



California Coastal Com'n Permits

SPECIAL CONDITIONS

Assumption of Risk. Waiver of Liability and Indemnity

By acceptance of this permit, the applicant acknowledges and agrees (j) that the site may be subject to hazards from bluff and slope instability, erosion, landslides, waves, and sea level rise; (ii) to assume the risks to the applicant and the property that is the subject of this permit of injury and damage from such hazards in connection with this permitted development; (iii) to unconditionally waive any claim of damage or liability against the Commission, its officers, agents, and employees for injury or damage from such hazards; and (iv) to indemnify and hold harmless the Commission, its officers, agents, and employees with respect to the Commission's approval of the project against any and all liability, claims, demands, damages, costs (including costs and fees incurred in defense of such claims), expenses, and amounts paid in settlement arising from any injury or damage due to such hazards.



REASONABLE INVESTMENT-BACKED EXPECTATIONS: SHOULD NOTICE OF RISING SEAS LEAD TO FALLING EXPECTATIONS FOR COASTAL PROPERTY PURCHASERS?

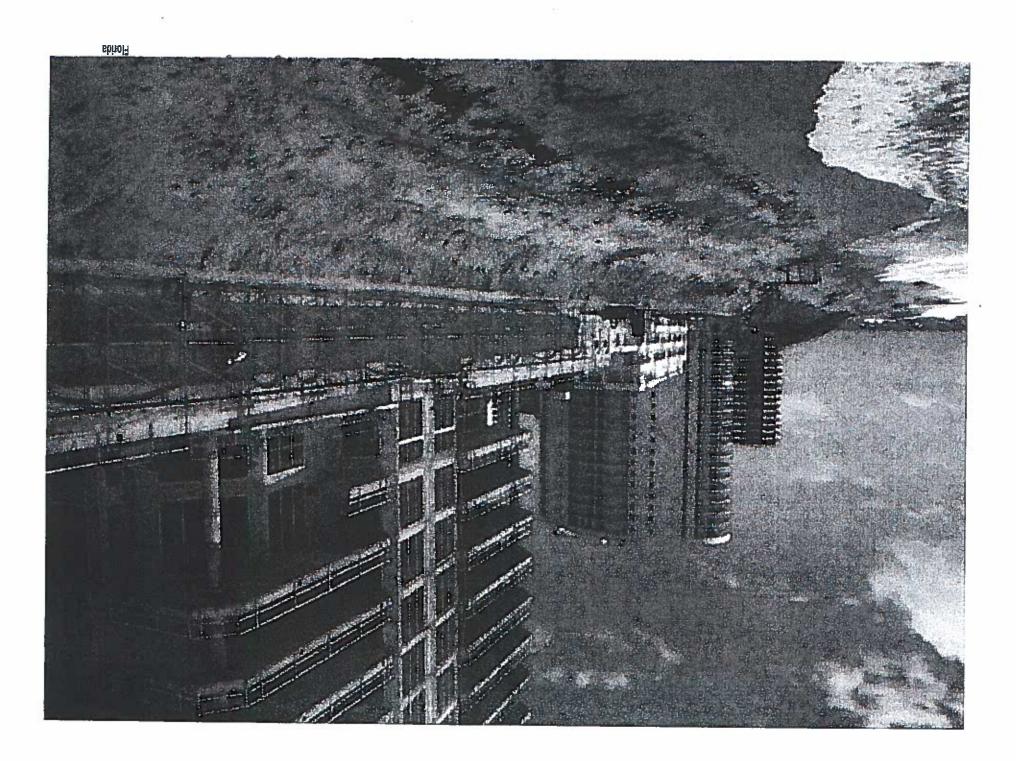
THOMAS RUPPERT

Disclosure Law:	I. II.	INTRODUCTION	. 239
of the Physical and	11.	COASTAL CHANGE	. 242
nnnent	Ш.	Takings Background	
	IV.	THE EVOLUTION OF REASONABLE INVESTMENT-BACKED	
		EXPECTATIONS	. 246
REVIN WOENIAK 2		A. Introduction to Reasonable Investment-Backed	
KEVIN WOZNIAK Z GARIN DAVIDSON Z		Expectations and Penn Central	. 246
TOWANKERSEN		B. Kaiser Aetna	
COMMINACINSE 4		C. Nollan	
replaced by a V.		D. Lucas	
UF Francisco Control Son Grant		E. Palazzolo v. Rhode Island	
. Sylved		F. Tahoe Sierra	
& Charle Correction		G. The State of RIBE Today	
Flenda	٧.	THE IMPACT OF "NOTICE" ON RIBE	
Clariete listinate	VI.	EXAMPLES OF NOTICE STATUTES AND RELATED CASES	
		A. Examples of Notice Statutes	
		B. Coastal Hazards Notice in Case Law	
	VII.	DRAFTING THE BEST POSSIBLE NOTICE REQUIREMENT	. 267
		A. What Property Is Affected	
		B. Which Property Transactions Are Affected	
and the state of t		C. Timing and Process Related to the Notice	
		D. Content and Form of Notice	. 272
		E. Results of Compliance with Notice Requirements	. 274
		F. Results of Non-Compliance with	
		Notice Requirements	. 274
	νш.	CONCLUSION AND RECOMMENDATIONS	. 275
		Q Q	~
		Florida Soa Grant College Program	

Florida's Coastal Hazards [Property Owner Perceptions Regulatory Enviro

Florida Sea Grant College Program





Michigan Law Review

Volume 113 | Issue 3

2014

Passive Takings: The State's Affirmative Duty to Protect Property

Christopher Serkin

Vanderbilt Law School, chris.serkin@vanderbilt.edu



Inaction as Taking

- Action vs. inaction
 - Negative vs. positive rights
- "Passive takings should arise when property is subject to such regulatory control that the government is understood to be responsible for the resulting harm, whether it acts or not.
 Or, to put it in affirmative terms, the government should have a constitutional duty to act when it is complicit in creating the conditions that are responsible for harm to property."

But, the U.S. Supreme Court says. . .

- No legal duty to protect private property other than maybe maintenance of existing

 infrastructure
 - "Like its counterpart in the Fifth Amendment, the Due Process Clause of the Fourteenth Amendment was intended to prevent government 'from abusing [its] power, or employing it as an instrument of oppression."
 - "[Constitutional protections] generally confer no affirmative right to governmental aid, even where such aid may be necessary to secure life, liberty, or property interests of which the government itself may not deprive the individual."

DeShaney vs. Winnebago Dept. of Social Services, 489 U.S. 189 (1989)



- Is It Fair? -- Reprise
- When there's loss, who should pay?
- What if it requires changing the law?
- Is it a taking?

• ۸۲۸ **٠**

- Should the law evolve?
- When? Why? By what method?

"...when [our current idea of property] emerged in the nineteenth century, it was greeted with considerable dissent and resistance. Far from being timeless, our image of ownership reflects the dominant values and aspirations of the industrial, frontier era. Lawmakers of that era revised ownership norms to help them achieve the development goals that then prevailed."

-Eric Freyfogle, On Private Property: Finding Common Ground on the Ownership of Land



"At the center of today's debate [about property] . . . Lies a collective failure on our part to think clearly and intently about the institution [of property], how it works, why it exists, and the many shapes it can take, in terms of landowner rights and responsibilities. . . . In operation, [the right to property] is less an individual right than a tool society uses to promote overall social good. Important truths about this arrangement have largely passed from our collective memory. We need to regain these truths."

-Eric Freyfogle, On Private Property: Finding Common Ground on the Ownership of Land

Sea Grant

SLR Resources for Local Governments: Florida Sea Grant's Coastal Planning Website

Florida Sea Grant College Program

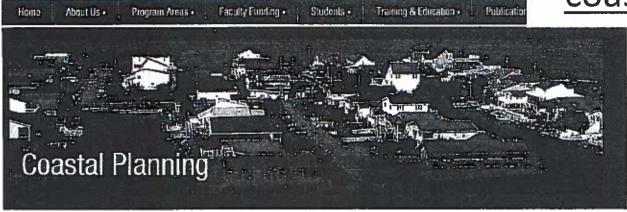


- Financing Options for SLR Adaptation
- SLR Language in Comp Plans
- Bert J. Harris, Jr., Property Rights Protection
- Many other resources....





www.flseagrant.org
/climatechange/
coastalplanning/



Home . Climate Change . Coastal Planning . Resources . Policy Tools

Example Sea-Level Rise Language & Case Studies

Insurance Issues

News

Policy Tools

No one-size-fits-all prescription for adapting to sea-level rise is possible for Florida's coastal communities. For example, while a community may have a responsibility to inform people about coastal hazards such as storm surge and sea-level rise, the community will also want to encourage economic development and





