

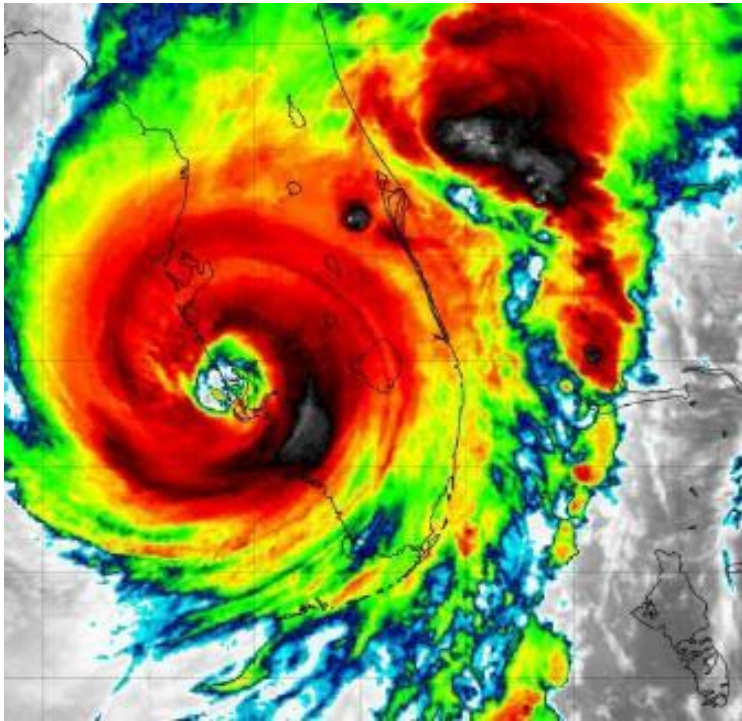
The Florida Senate
COMMITTEE MEETING EXPANDED AGENDA

SELECT COMMITTEE ON RESILIENCY
Senator Albritton, Chair
Senator Pizzo, Vice Chair

MEETING DATE: Wednesday, January 18, 2023
TIME: 3:30—5:30 p.m.
PLACE: *Pat Thomas Committee Room, 412 Knott Building*

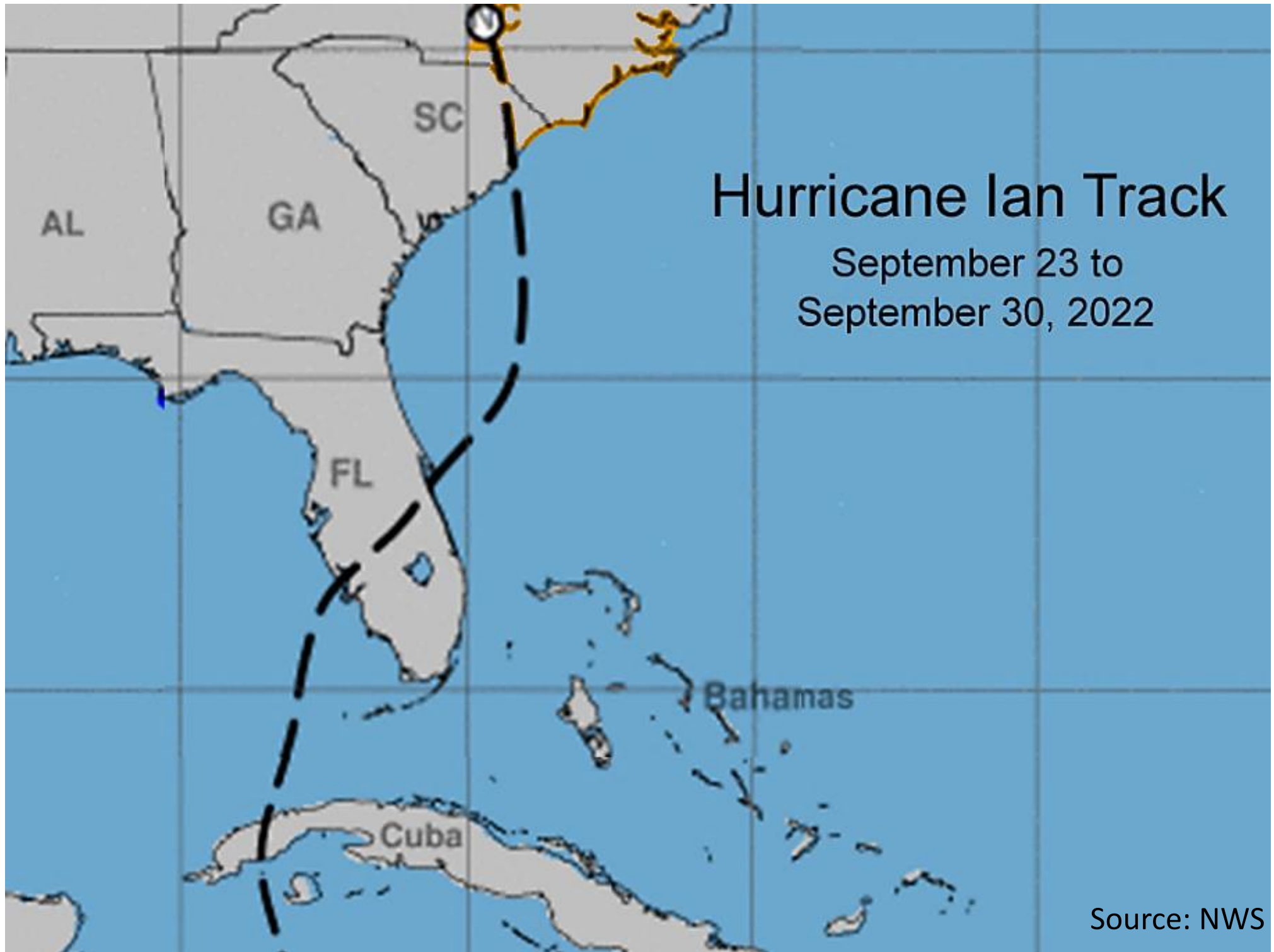
MEMBERS: Senator Albritton, Chair; Senator Pizzo, Vice Chair; Senators Avila, Berman, Bradley, Calatayud, Collins, Davis, Grall, Gruters, Harrell, Ingoglia, Martin, Polsky, Powell, Stewart, Thompson, Trumbull, and Wright

TAB	BILL NO. and INTRODUCER	BILL DESCRIPTION and SENATE COMMITTEE ACTIONS	COMMITTEE ACTION
1	Presentation by Local Governments Impacted by Hurricanes Ian and Nicole		Presented
2	Presentation by Florida Shore and Beach Preservation Association		Not Considered
Other Related Meeting Documents			



Collier County:

Hurricane Ian & Recovery

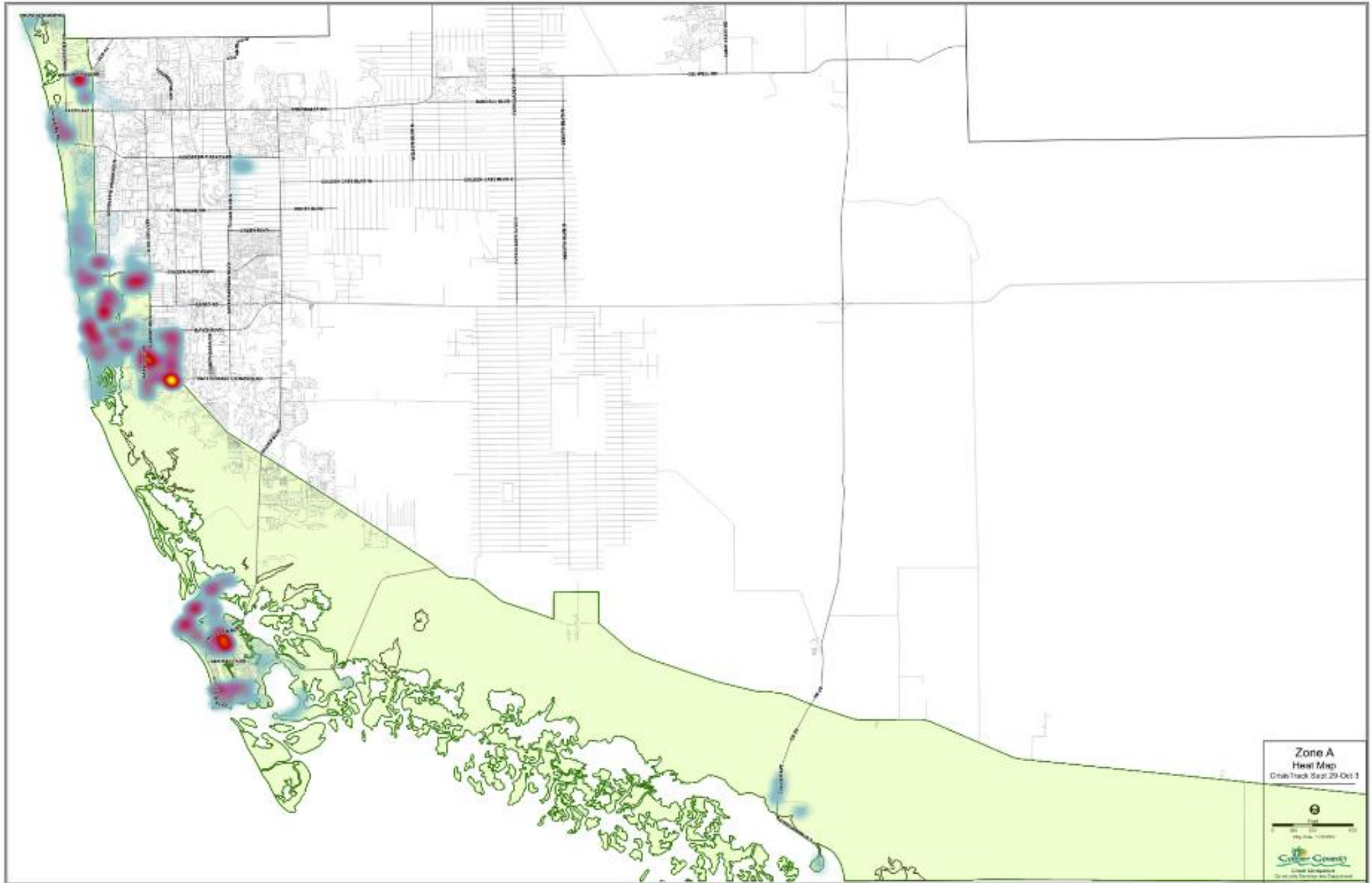


Hurricane Ian Track

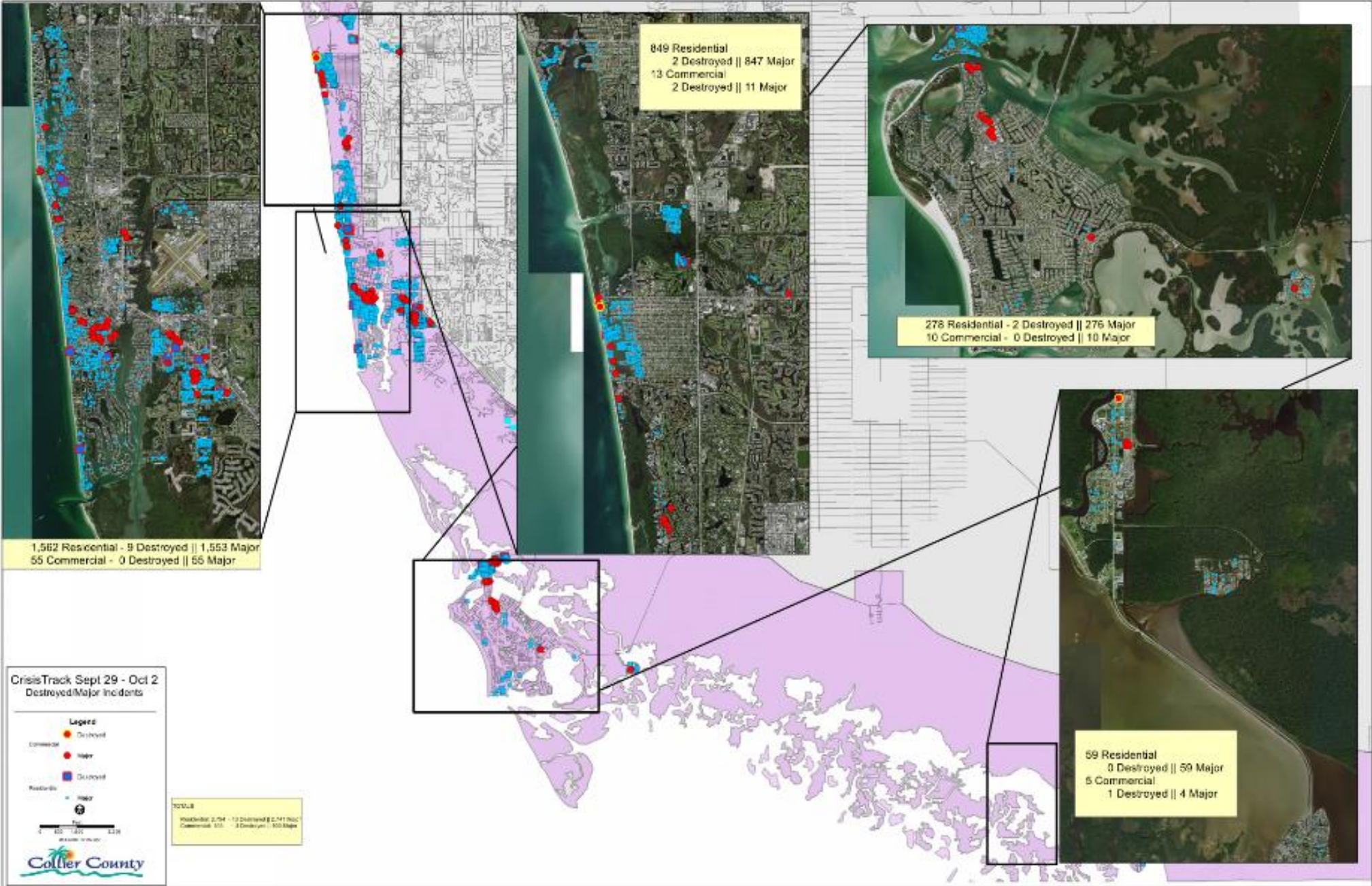
September 23 to
September 30, 2022

Source: NWS

Hurricane Ian - Observed Damage Heat Map

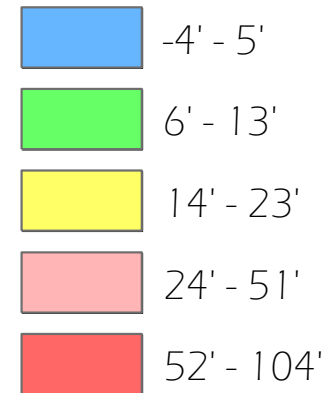


Hurricane Ian - Preliminary Damage Assessment

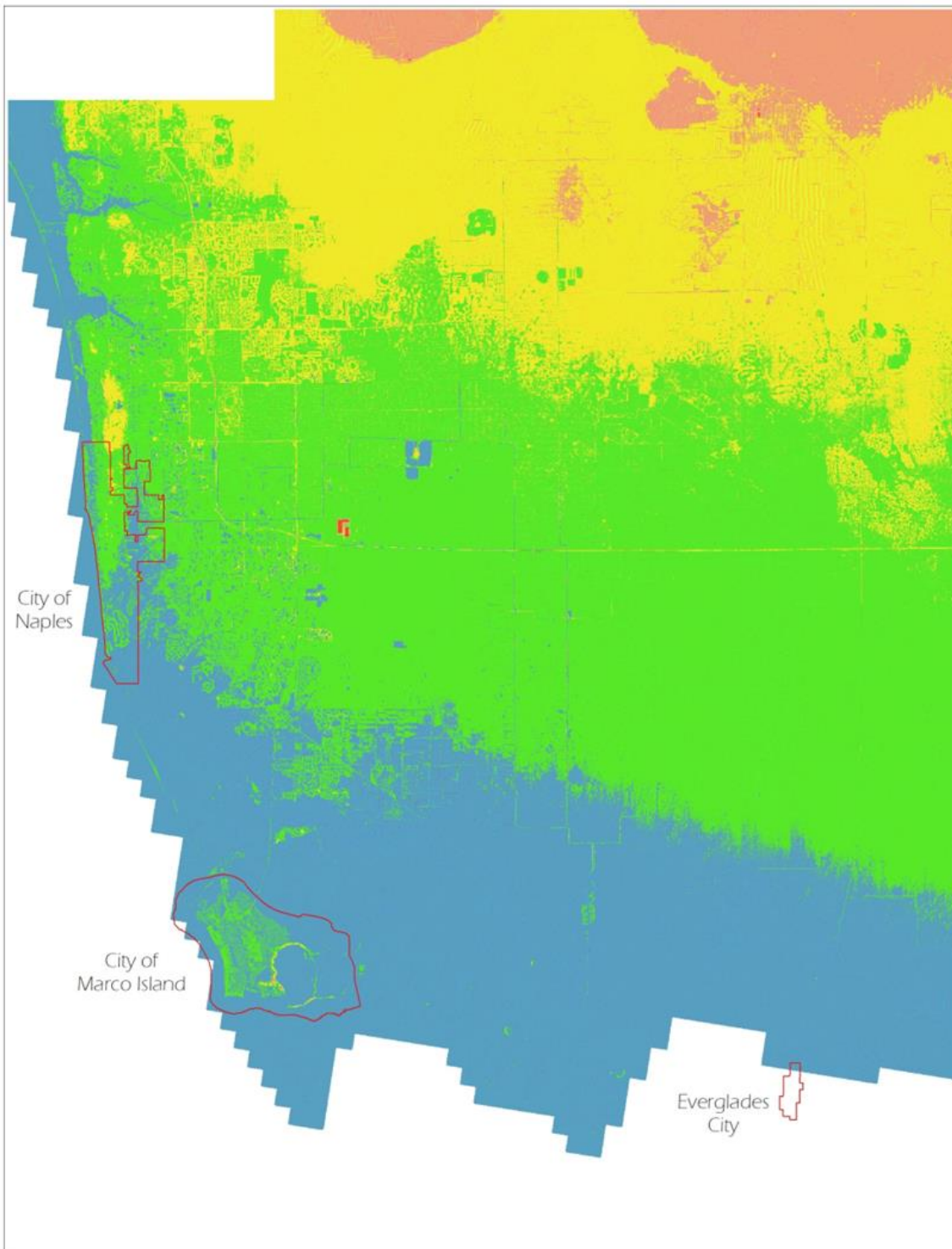
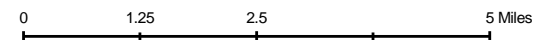
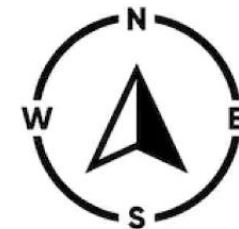


Collier County Elevation Profile

2018 LIDAR

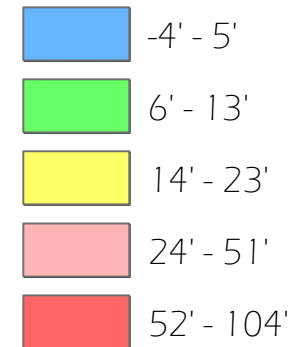


NAVD88



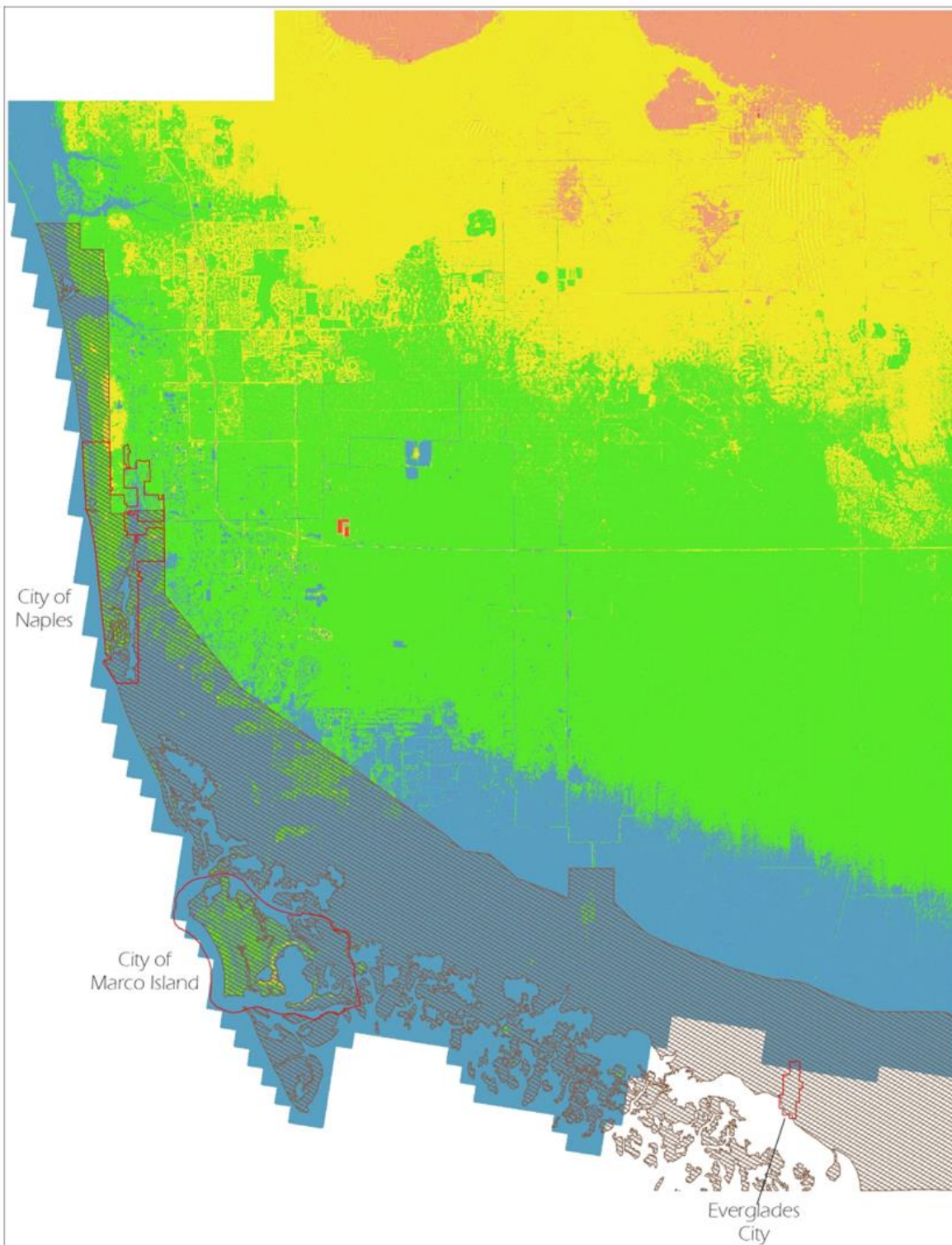
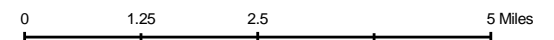
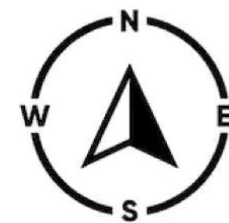
Collier County Evacuation Zone A

2018 LIDAR



NAVD88

 Evacuation Zone A



US 41 - Credit NPS



Preliminary Damage Assessment

City of Naples

Residential - \$977,719,686

Destroyed - 22

Major - 705

Minor - 1940

Commercial - \$11,673,255

Major - 31

Minor - 294

City of Marco Island

Residential - \$61,746,973

Destroyed - 0

Major - 41

Minor - 262

Commercial - \$194,515,080

Major - 20

Minor - 41

Unincorporated Collier County

Residential - \$663,017,382

Destroyed - 8

Major - 2,553

Minor - 1,339

Commercial - \$285,182,536

Destroyed - 2

Major - 121

Minor - 36

Everglades City

Residential - \$6,188,095

Destroyed - 0

Major - 40

Minor - 86

Commercial - \$932,641

Destroyed - 1

Major - 4

Minor - 2

Preliminary Damage Assessment Totals

Total - \$2,200,975,648

Residential - \$1,708,672,136

Destroyed - 30

Major - 3,339

Minor - 3,627

Commercial - \$492,303,512

Destroyed - 3

Major - 176

Minor - 373

Individual Assistance to Collier County Applicants

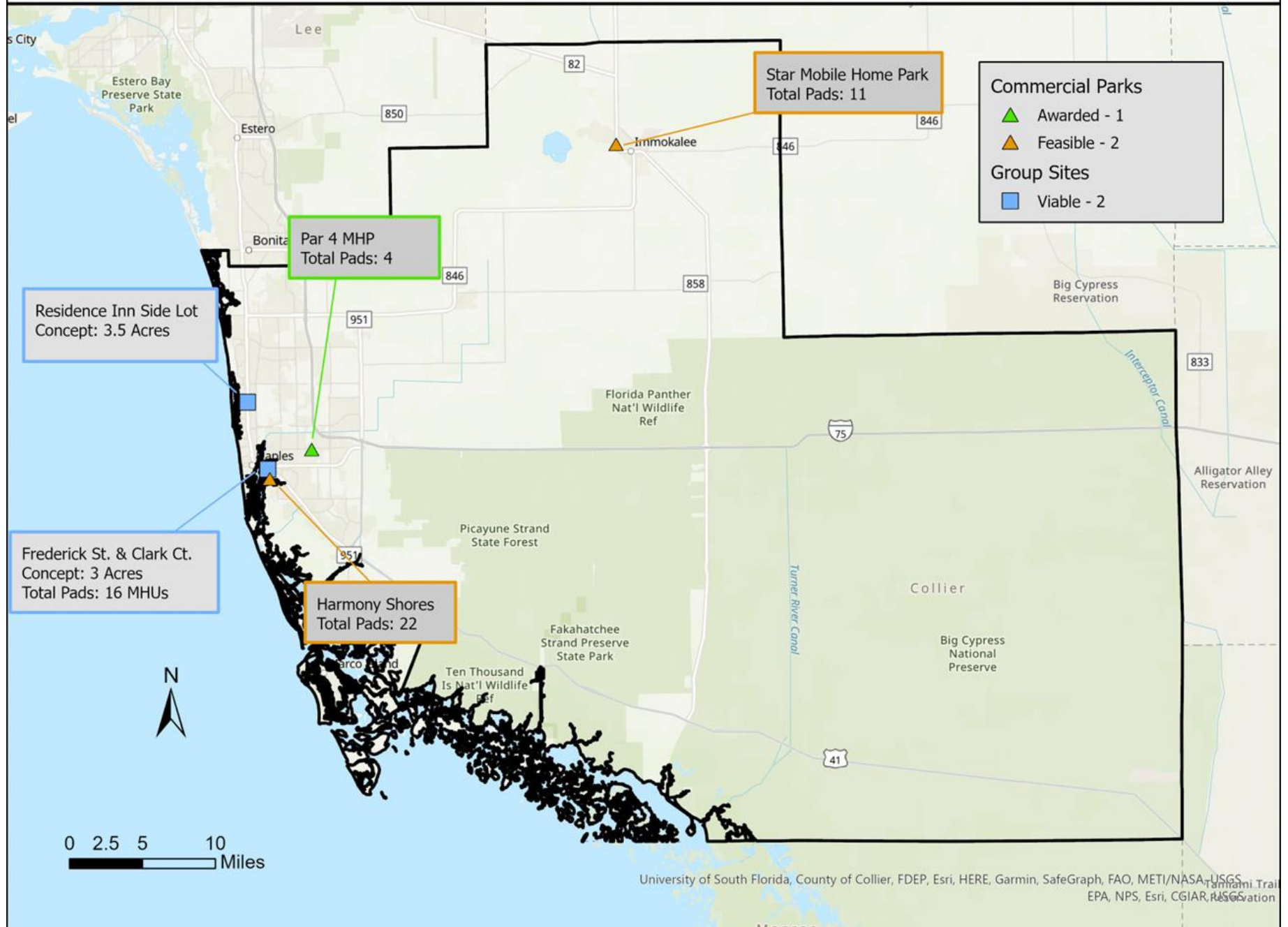


FEMA

Housing Assistance	\$30,895,011
Initial Rental Assistance	\$11,286,081
Repair & Replacement Assistance	\$19,553,498
Other Needs Assistance	\$13,553,734
Approved for Direct Housing	144 Households

As of COB 01/04/2023

Collier County: Commercial Parks and Group Sites



Collier County Growth Management Community Development Department



Hurricane Ian - Post Storm Repair Permitting

Collier County Growth Management Community Development Department (GMCDD) opened its doors 48 hours after Hurricane Ian's landfall in order to assist property owners with repair to damaged structures, begin the recovery process, and allow those areas not impacted by the storm to return to normal daily activities.

Understanding the importance of community recovery, GMCDD pre-identified storm damage properties within its permitting system to allow those storm related permitting activities to be given priority status.

Post Hurricane Ian Power Outage Concerns

- During post-Hurricane Ian efforts to restore electrical power, if a property had been determined to have sustained damage from wind or flooding, the electric service provider (FPL or LCEC) may require a structure to have the electrical service inspected by a licensed electrician with that licensed electrician's findings reviewed and approved by the Collier County Building Division before electrical services can be restored.
- To expedite this process, and so long as repairs are were not required, the Collier County Building Division did not require a permit for the electrical contractor to perform their safety check for reenergizing a structure's electrical service. When the licensed electrician completed their safety assessment and was ready for the power of a structure to be restored, they provided notice to the Building Division by notarized letter, indicating their license number on their company letterhead for quick review and forwarding to the electric service provider for restoration. County staff monitored emails from these licensed electrical contractors 7 days per week to ensure quick notification to electric service utility companies.

Post Hurricane Ian Power Outage Concerns

- If repairs were required to be made by the licensed electrical contractor while performing the safety check, work could begin immediately, the licensed electrical contractor applied for a building permit within 24 hours of the repair (online or in person) and scheduled an inspection upon completion. For storm-related electrical repairs, single-family homes could be inspected on the same day during daytime hours or as coordinated with the licensed electrician. Because of the potential complexity and to provide access to electrical service equipment, commercial and multifamily structures were coordinated with the licensed electrician and scheduled as requested. All repairs were required to conform to the Florida Building Code (FBC) and National Electric Code (NEC) to ensure safe and continuous service.
- All single family home storm related building permit fees were held in abeyance to ensure quick response and recovery

Waterway Debris Removal Suggested Improvements

- Clearly defined areas that the State will be responsible for versus local government
- Defined process - Who will head the effort along with points of contacts
- Unified communication to best manage expectations
- Pre-established waterway debris management sites inclusive of titled vehicles & vessels



Community Rating System

As a part of the National Flood Insurance Program (NFIP), the Community Rating System is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum program requirements.

As a result, flood insurance premium rates are discounted to reflect the reduced flood risk resulting from the community actions meeting the three goals of the Community Rating System:

- *Reduce flood damage to insurable property*
- *Strengthen and support the insurable aspects of the National Flood Insurance Program*
- *Encourage a comprehensive approach to floodplain management*



Collier County's Commitment to CRS Participation

Table 110-1. CRS classes, credit points, and premium discounts.

CRS Class	Credit Points (cT)	Premium Reduction	
		In SFHA	Outside SFHA
1	4,500+	45%	10%
2	4,000–4,499	40%	10%
3	3,500–3,999	35%	10%
4	3,000–3,499	30%	10%
5	2,500–2,999	25%	10%
6	2,000–2,499	20%	10%
7	1,500–1,999	15%	5%
8	1,000–1,499	10%	5%
9	500–999	5%	5%
10	0–499	0	0



Collier County
Rating 1/2023

SFHA: Zones A, AE, A1–A30, V, V1–V30, AO, and AH

Outside the SFHA: Zones X, B, C, A99, AR, and D

Preferred Risk Policies are not eligible for CRS premium discounts because they already have premiums lower than other policies. Preferred Risk Policies are available only in B, C, and X Zones for properties that are shown to have a minimal risk of flood damage.

Some minus-rated policies may not be eligible for CRS premium discounts.

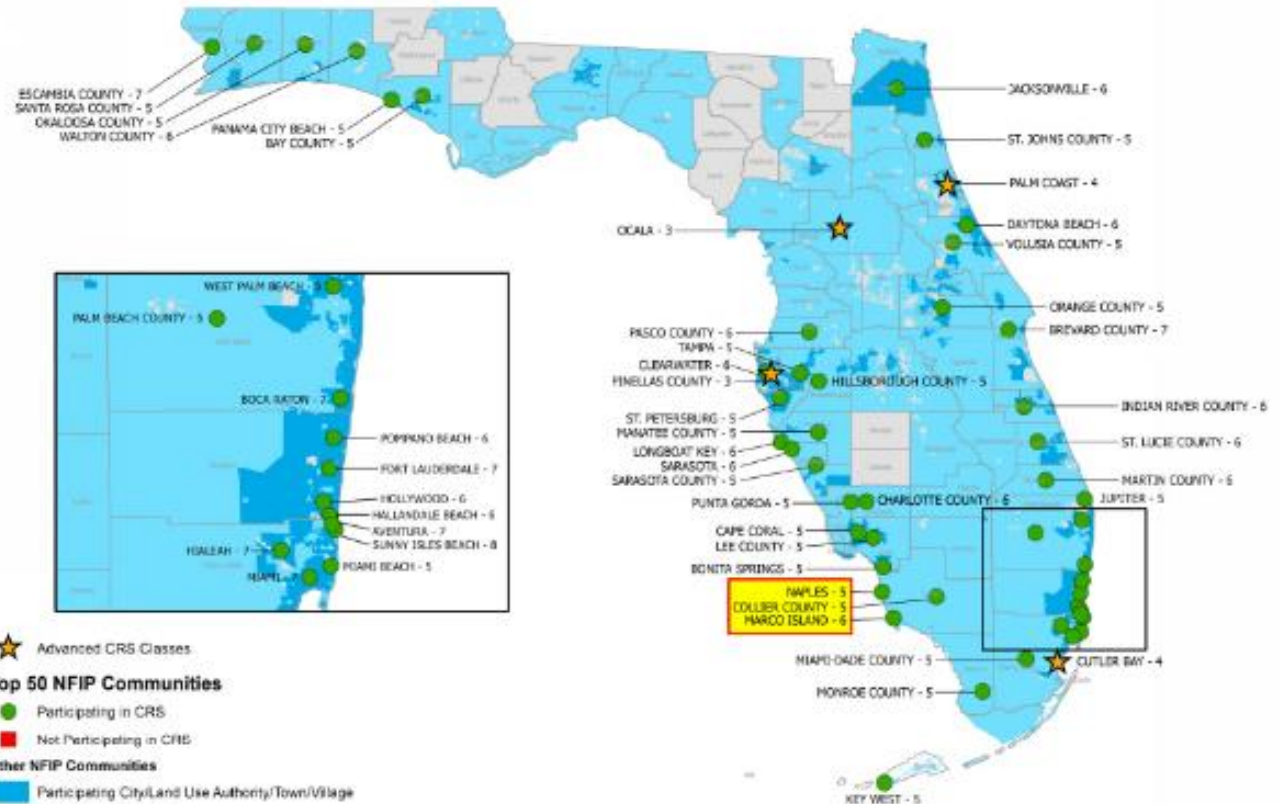
Premium discounts are subject to change.

Florida

Top 50 National Flood Insurance Program (NFIP) Policy Count Communities* and Community Rating System (CRS) Participation

*Ranked by the total number of NFIP insurance policies in-force

Rank	CID	Community Name	Policies	Class
1	120635	Miami-Dade County	120,481	5
2	120067	Collier County	74,374	5
3	125124	Lee County	65,716	5
4	120650	Miami	51,836	7
5	120651	Miami Beach	45,329	5
6	120192	Palm Beach County	40,523	5
7	125105	Fort Lauderdale	38,794	7
8	125144	Sarasota County	36,200	5
9	125095	Cape Coral	34,864	5
10	120112	Hillsborough County	34,841	5
11	125148	St. Petersburg	34,831	5
12	125139	Pinellas County	31,851	3
13	120061	Charlotte County	28,864	6
14	125147	St. Johns County	28,168	5
15	120114	Tampa	26,566	5
16	120077	Jacksonville	23,939	6
17	125092	Brevard County	22,840	7
18	125113	Hollywood	22,117	6
19	120153	Manatee County	21,442	5
20	120230	Pasco County	20,699	6
21	120676	Aventura	19,674	7
22	120317	Walton County	18,383	6
23	120055	Pompano Beach	18,227	6
24	125110	Hallandale Beach	17,373	6
25	120426	Marco Island	16,268	6
26	120195	Boca Raton	15,583	7
27	125130	Naples	15,342	5
28	120688	Sunny Isles Beach	15,198	8
29	120161	Martin County	14,837	6
30	125129	Monroe County	14,289	5
31	120643	Hialeah	14,278	7
32	120004	Bay County	14,189	5
33	120080	Escambia County	13,880	7
34	120119	Indian River County	12,994	6
35	120274	Santa Rosa County	12,802	5
36	120680	Bonita Springs	12,796	5
37	120013	Panama City Beach	11,825	5
38	125096	Clearwater	11,236	6
39	120173	Ocala	9,875	5
40	125126	Longboat Key	9,693	6
41	120285	St. Lucie County	9,102	6
42	120179	Orange County	8,758	5
43	125155	Volusia County	8,633	5
44	120062	Punta Gorda	8,519	5
45	125119	Jupiter	8,327	5
46	125150	Sarasota	8,115	6
47	125099	Daytona Beach	8,077	6
48	120168	Key West	8,062	5
49	120229	West Palm Beach	7,739	5
50	120218	Cuttler Bay	7,674	4



CRS Class Data: October 1, 2021 / Policy Data: July 31, 2021

For a full list of CRS communities, visit <https://www.fema.gov/flood-insurance/rules-legislation/community-rating-system>

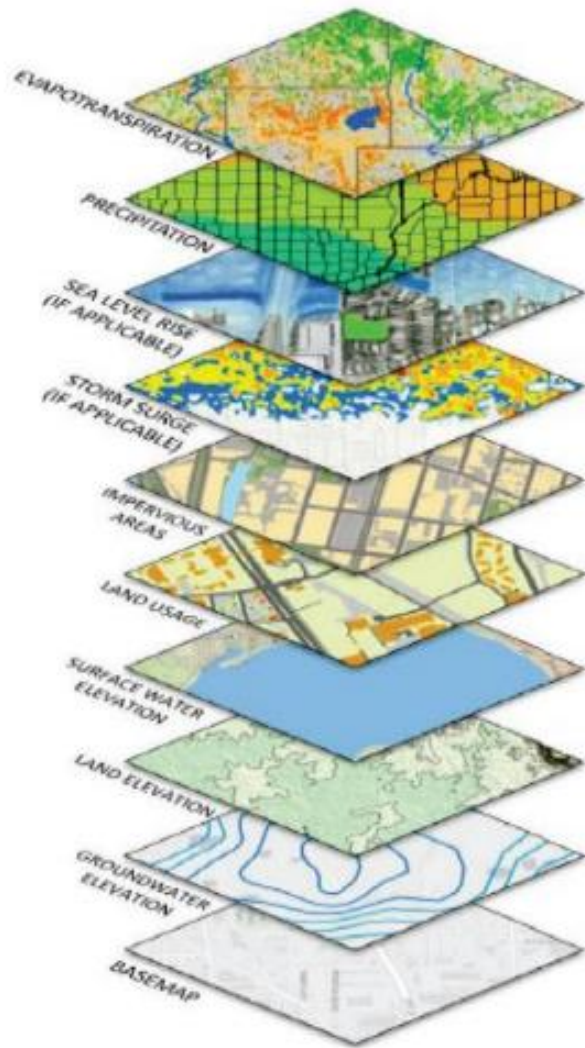
As of July 2021, 468 communities in Florida participate in the National Flood Insurance Program (NFIP). Of these communities, 244 (or 52%) participate in the Community Rating System (CRS). Of the top 50 Florida communities (in terms of flood insurance policies-in-force), 100% participate in CRS.

Benefits of Joining the CRS

- * Activities credited by the CRS provide direct benefits to the community, including enhanced public safety, reduction in flood damage, and environmental protection.
- * Residents know the community is working to protect them from flood losses.
- * Public information activities will build a knowledgeable constituency interested in supporting and improving flood protection measures.
- * Money stays in the community instead of being spent on insurance premiums.



Collier County Resiliency Kickoff - 2023



OMB No. 1660-0022
Expires: March 31, 2020

National Flood Insurance Program
Community Rating System

Coordinator's Manual

FIA-15/2017



FEMA



NFIP/CRS



FDEP Vulnerability Study

Repetitive Loss Area Analysis

Collier County Coastal Storm Risk Management Feasibility Study



The study investigates solutions to reduce risks within Collier County from future coastal storm events, especially storm surge, specifically to reduce economic damage, as well as risk to life and safety.

The study is planned for completion within three years (2022 to September 2025) and \$3 million. The study will develop, analyze and evaluate coastal storm risk management alternatives.

This study will result in the recommendation of a project authorized for construction. Collier County and its municipalities, with a total of about 380,000 people, lie in a relatively low-lying and flat coastal area. The region is well known for its coastal-flooding risk from hurricanes and tropical storms. Sea-level rise has increased these risks and will continue to do so in the future. Without plans to reduce coastal storm risk and increase resiliency, threats to life, property and the economy will continue to increase. This study will identify and evaluate coastal storm risk management measures for Collier County residents, industries and businesses.

Long Term Recovery Goals



Frontal Dune Restoration



Beach Restoration



Stormwater System Improvement

Thank you for the opportunity to present to this committee!

Q&A



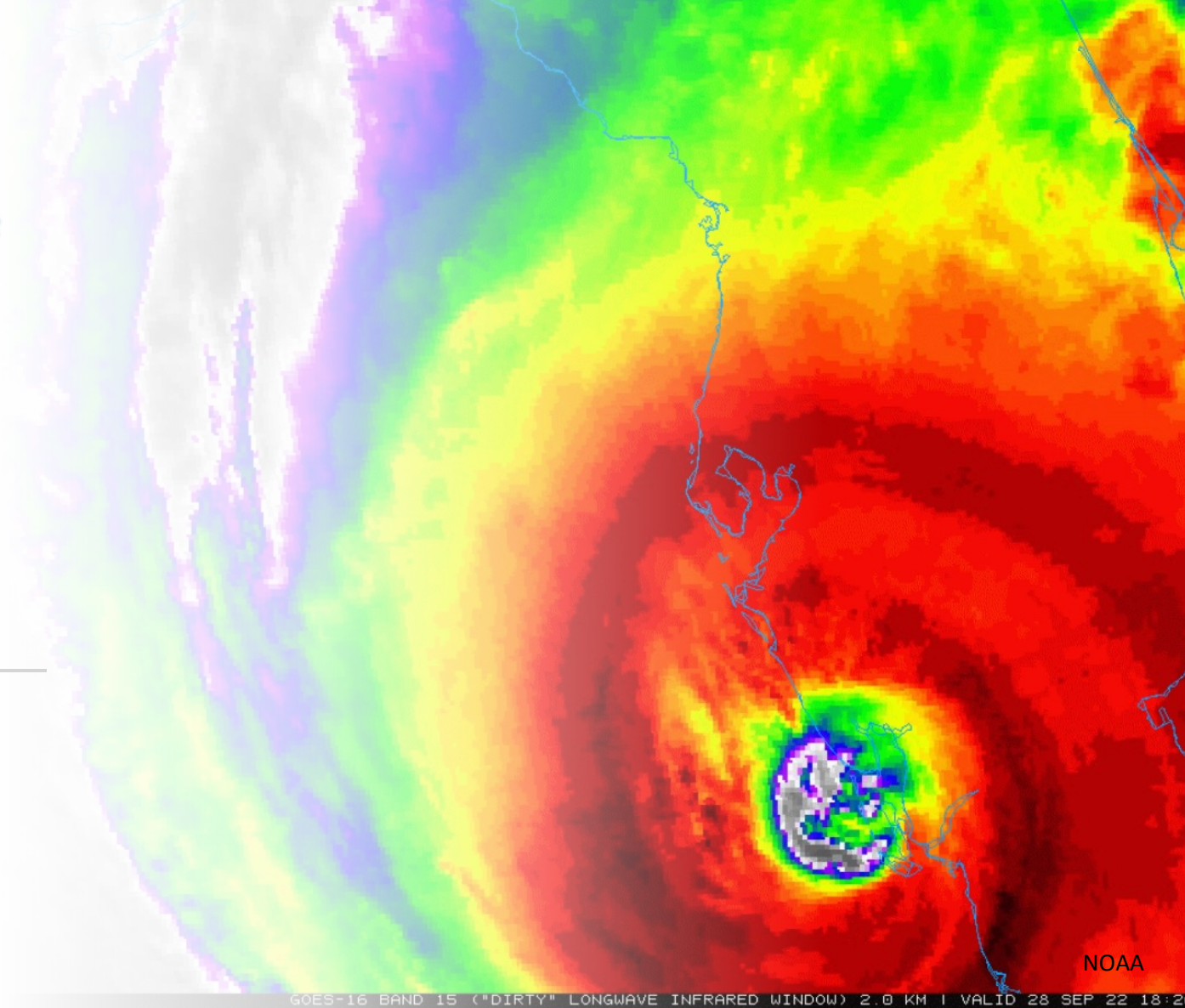
Florida's Coasts: On the front lines of resilience

Senate Select Committee
on Resiliency
January 18, 2023

Pepper Uchino, President



FLORIDA SHORE & BEACH
PRESERVATION ASSOCIATION
A League of Cities and Counties on Beach and Coastal Issues



Quick Facts: Florida's Coasts



Beaches and shores

- The longest coastline in the continental U.S. (~1200 miles)
- 825 miles of sandy beaches
- The fishing and boating capital of the world
- Beaches are the largest single economic driver in Florida
- Healthy beach & dune systems protect upland resources
- Beaches serve as critical habitat for many threatened and endangered species
- According to a 2015 report by EDR, beaches are Florida's most important brand identifier



Critical Erosion

- 426.3 miles of beach
- 9.1 miles of inlet shoreline
- Erosion is caused by human and natural processes
- Data provided by the 2022 DEP “Critically Eroded Beaches in Florida” Report.



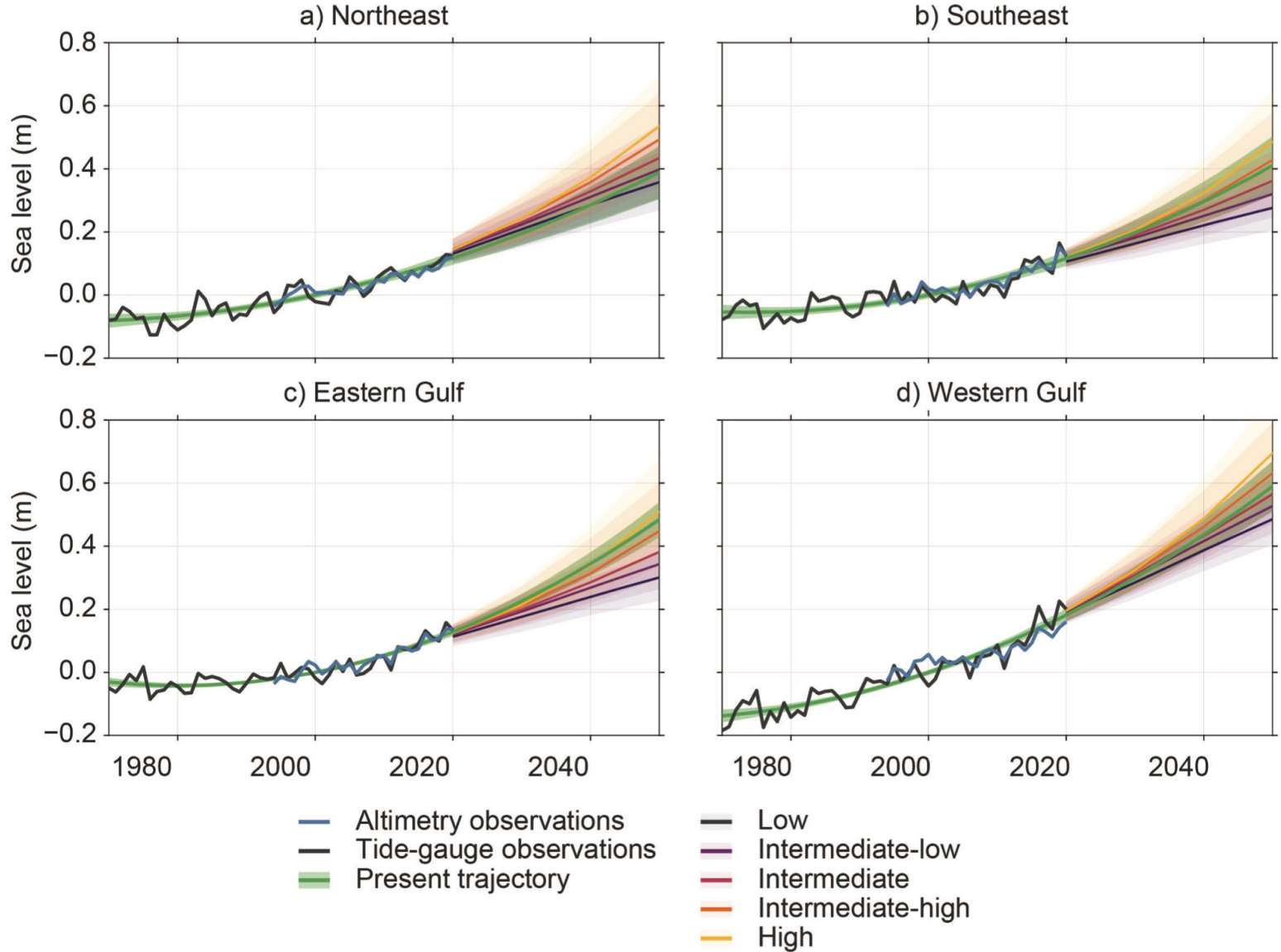


Sea Level Rise & Extreme Weather

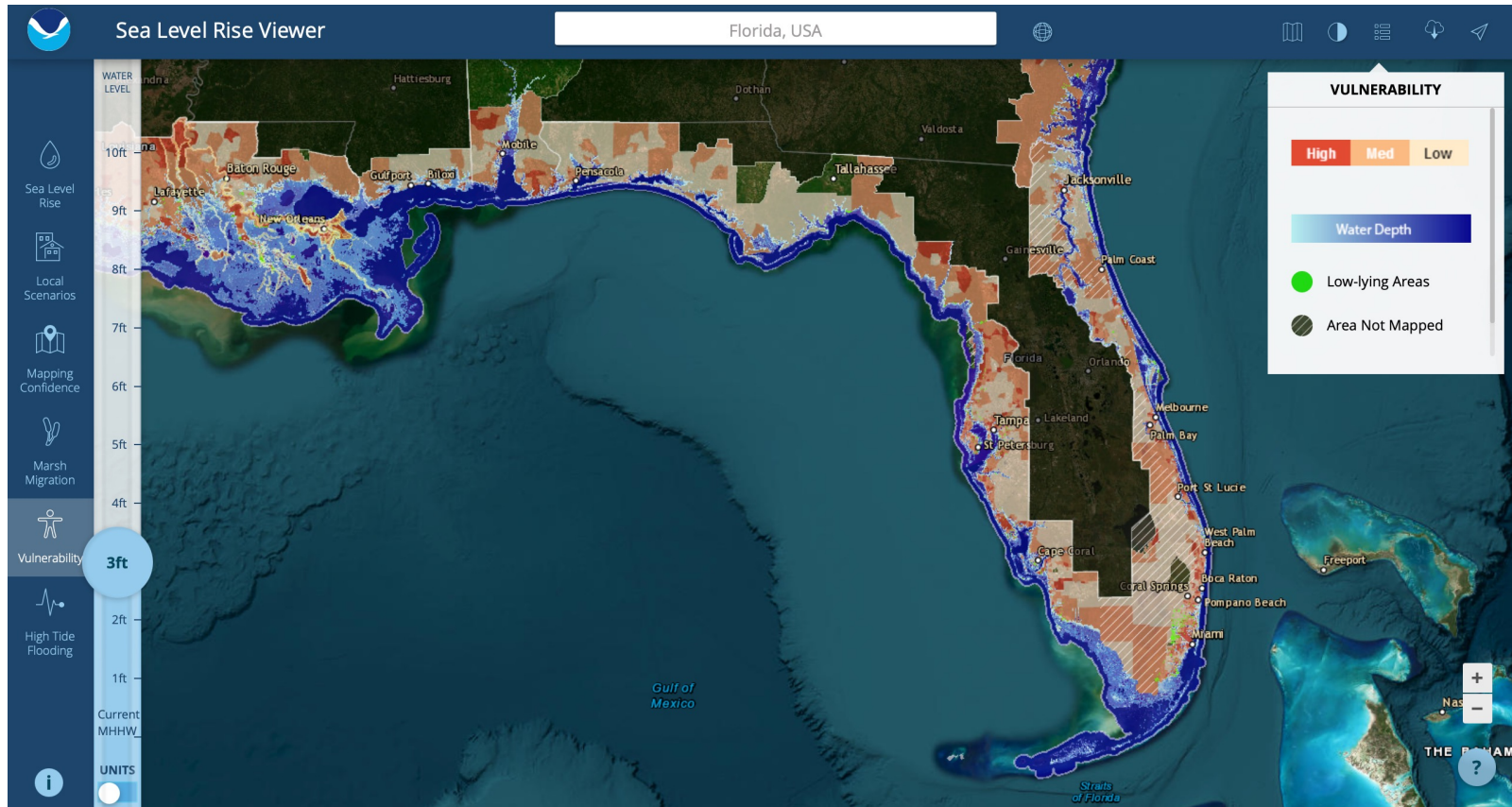
Florida's Coastal Resiliency Challenges



Projected sea level rise 2050



Map of NOAA's Intermediate 2100 Projection

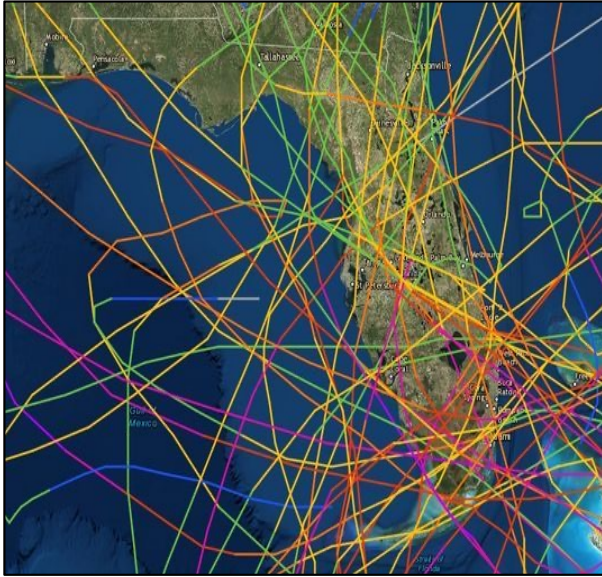


Sea Level Rise in Florida

- Approximately 17 million people live in Florida's coastal zone
- Key West Tide Gauge – 9" of rise since 1913...and it's accelerating
- Many communities are already experiencing sunny day flooding
- Worsening king tides
- Accelerating rates of coastal erosion
- More devastating storm surge



100 Years of Tropical Events

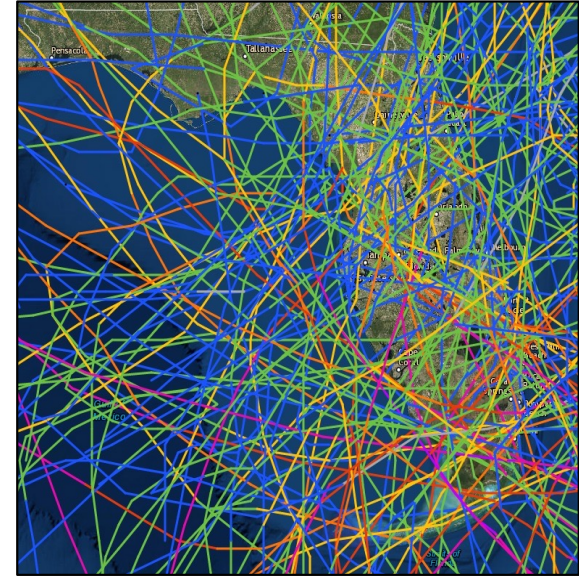


Hurricanes

(Photos: National Oceanic and Atmospheric Administration)



Tropical Storms



Tropical Depressions



Economic impacts in Florida



FLORIDA SHORE & BEACH
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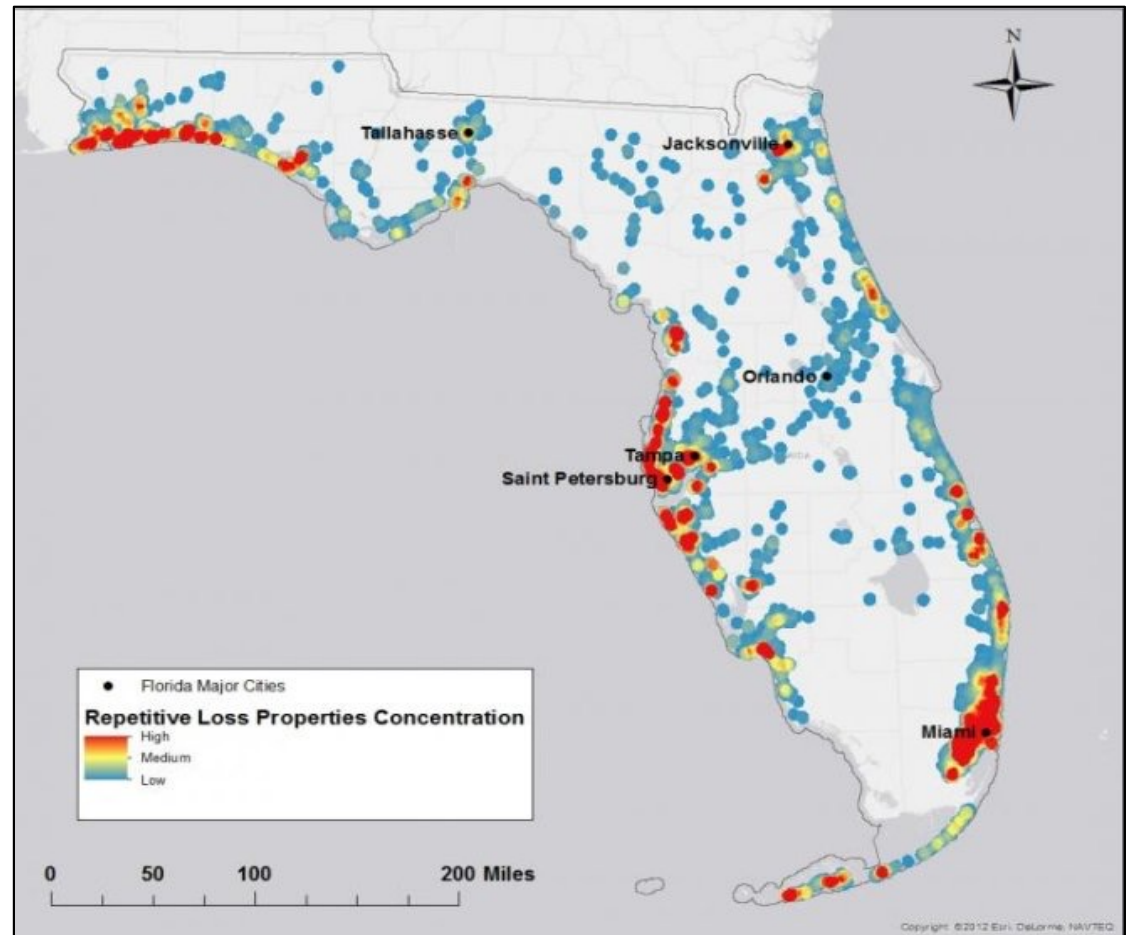
Top 20 Costliest Storms to Hit the US

Costliest tropical cyclones to impact the United States (cost values are based on the 2022 Consumer Price Index adjusted cost)

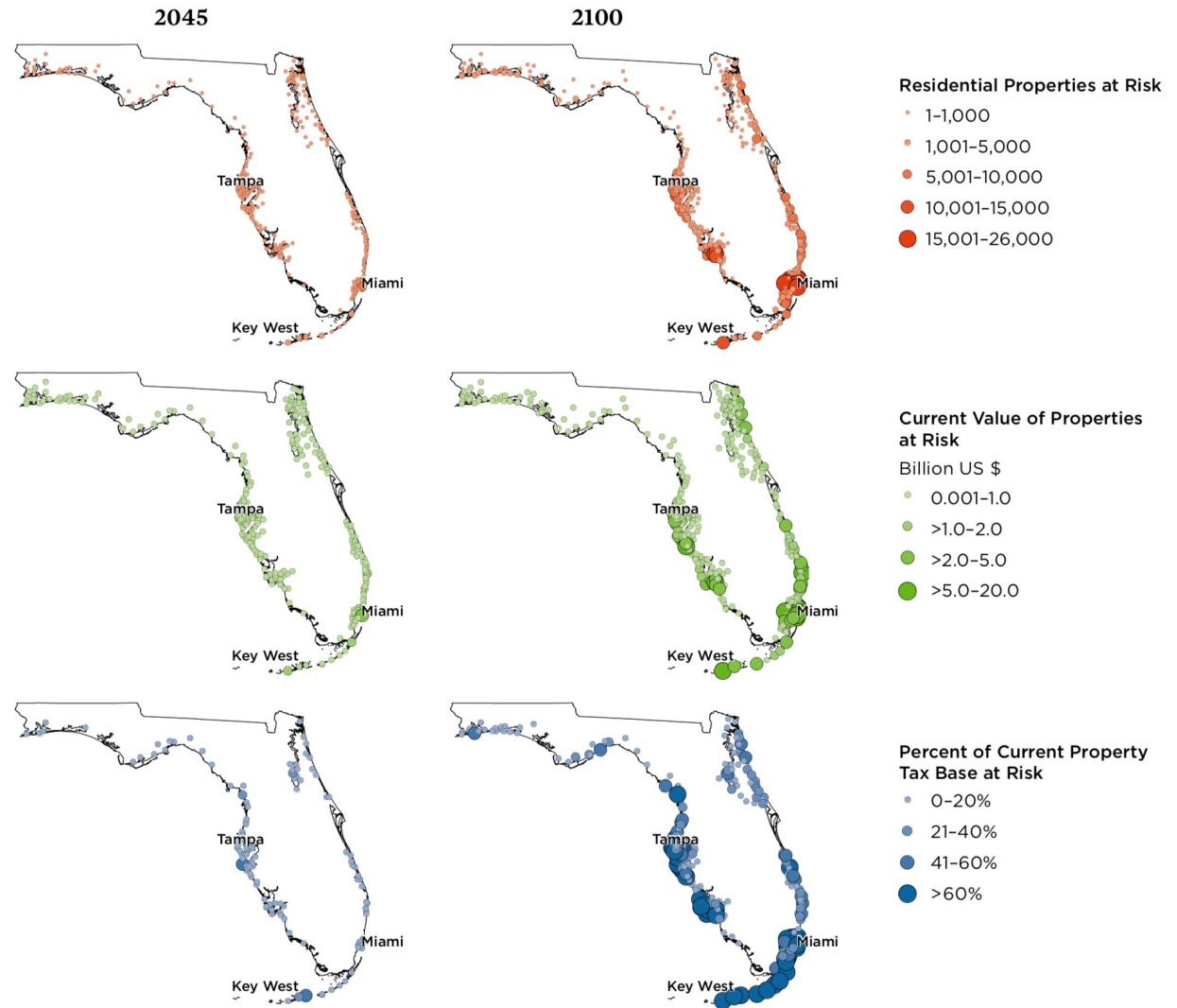
Tropical Cyclone	Year	Category	Adjusted Costs
Katrina*	2005	3	\$190.0B
Harvey	2017	4	\$151.3B
Ian	2022	4	\$112.9B
Maria	2017	4	\$108.9B
Sandy	2012	1	\$83.9B
Ida	2021	4	\$80.2B
Irma	2017	4	\$60.5B
Andrew	1992	5	\$57.0B
Ike	2008	2	\$40.8B
Ivan**	2004	3	\$32.2B
Michael	2018	5	\$29.5B
Florence	2018	1	\$28.3B
Wilma	2005	3	\$28.3B
Rita	2005	3	\$27.8B
Laura	2020	4	\$26.7B
Charley	2004	4	\$25.1B
Hugo	1989	4	\$21.4B
Irene	2011	1	\$17.7B
Frances	2004	2	\$15.4B
Agnes	1972	1	\$15.0B



Property Damage



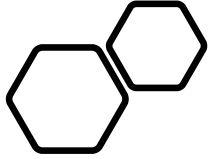
Potential economic fallout of sea level rise in Florida



Coastal Management



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A League of Cities and Counties on Beach and Coastal Issues



Beach Management Toolbox

- Beach nourishment using sand obtained from adjacent inlets, offshore or upland locations
- Sand bypassing
- Living shorelines
- Breakwaters, groins
- Managed retreat for multiple-loss properties

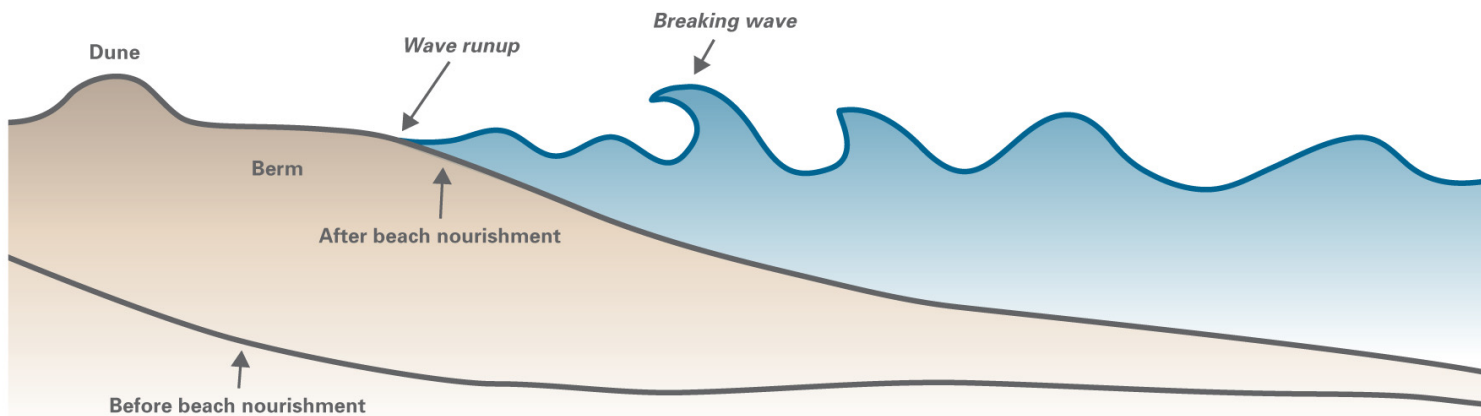


Benefits of Beach Nourishment

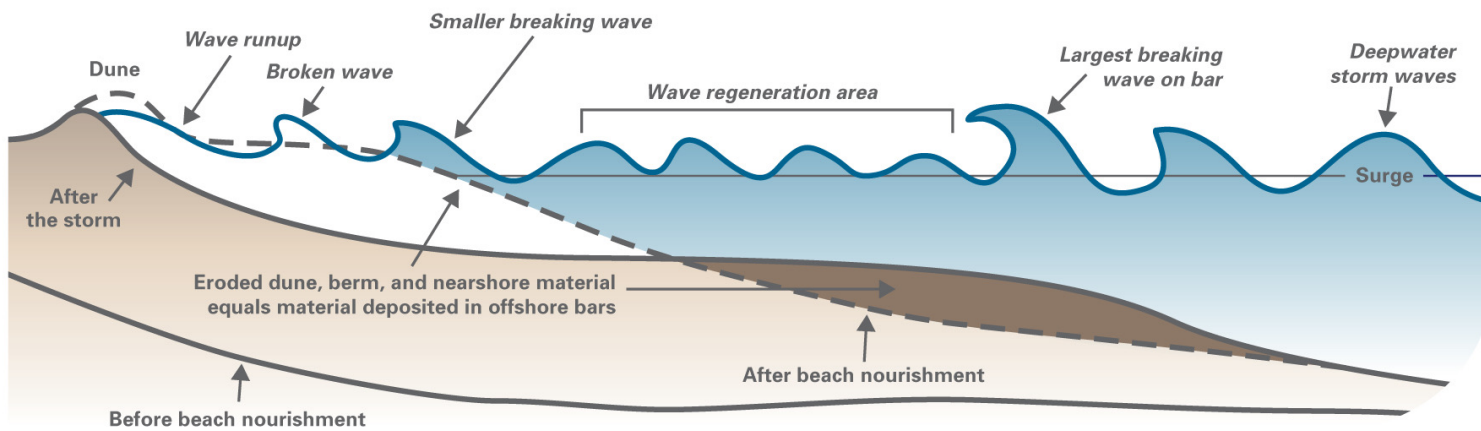
Generally, for eroding shorelines, beach nourishment is the best solution:

- Adds sand to the system helping both the nourished beach and downdrift areas
- Protects upland resources by pushing the mean high water line waterward
- Protects against storm surge
- Best environmental outcomes
- Increases tourism
- Protects taxable value and beach economies
- 5.4 ROI





■ A nourished beach (pre-storm)



■ A nourished beach (post-storm)

Behavior of
nourished
beach
during a
storm

Quick Facts: Coral Reefs



FLORIDA SHORE & BEACH
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A League of Cities and Counties on Beach and Coastal Issues

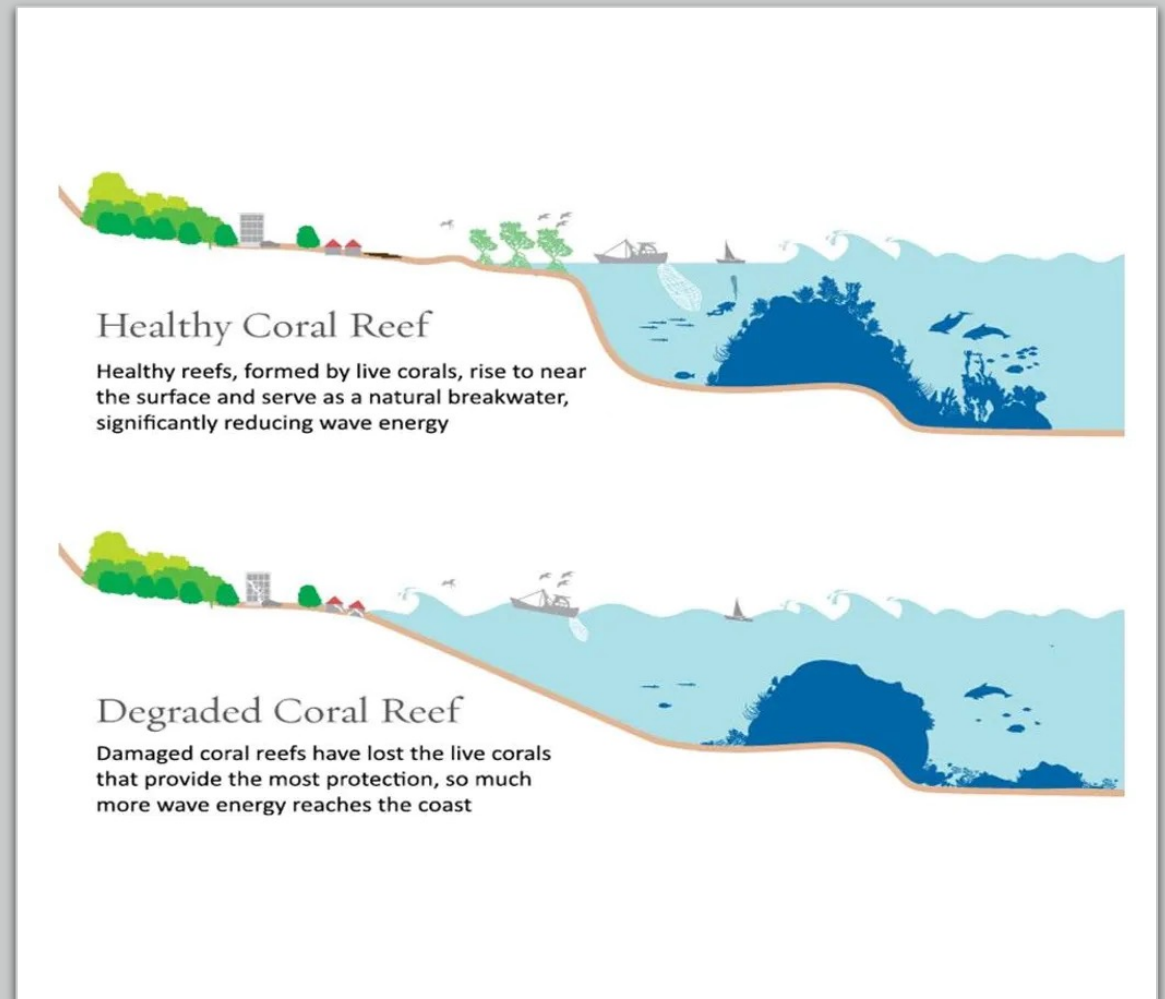
Our Coral Reef

- Extends 330 miles from St. Lucie Inlet to the Dry Tortugas
- Serves as an economic engine for commercial and recreational fishing as well as tourism
- Provides over \$1B in economic activity and supports ~71k jobs
- The only living coral barrier reef in the U.S.; 3rd largest in the world
- Important for biomedical research
- Devastated by stony coral tissue loss disease



Storm surge/flooding benefits of Florida's reef

- A 2014 study (Ferrario et al.) found that coral reefs dissipate 97% of wave energy and reduce wave height by 84%
- A 2019 study shows coral reefs provide more than \$355M/yr in flood protection benefits to buildings and protects nearly \$320 million in annual economic activity (Storelazzi et al.)



Recommendations to aid resilience and recovery

- Full funding for state share of DEP's Hurricane Recovery Plan – \$200-360M (approximately 70% from areas without a traditional beach management program)
- When possible, tighter coordination between federal/state for recovery funding timelines
- Coordinate state leadership efforts to support federal supplemental storm recovery funding
- Create a trust fund or give greater flexibility for existing trust funds to provide for contractual services
- Continue to provide dedicated funds for the BMFAP, a proven program to mitigate erosion
- Encourage communities without traditional beach management programs to initiate them
- Commission a study (OPPAGA?) on repetitive loss properties



Thank you

Questions?



FLORIDA SHORE & BEACH
PRESERVATION ASSOCIATION

A League of Cities and Counties on Beach and Coastal Issues

The Florida Senate

APPEARANCE RECORD

Deliver both copies of this form to
Senate professional staff conducting the meeting

Bill Number or Topic

Amendment Barcode (if applicable)

Meeting Date

11-17-22

Committee

Senate Res. Geny

Name

Ken Rume

Phone

239-273-0011

Address

6000 Tampa Estate Blvd

Email

krume@leg.state.fl.us

Street

Cap Coral

FL

33914

City

State

Zip

Speaking:

For

Against

Information

OR

Waive Speaking:

In Support

Against

PLEASE CHECK ONE OF THE FOLLOWING:

I am appearing without compensation or sponsorship.

I am a registered lobbyist, representing:

I am not a lobbyist, but received something of value for my appearance (travel, meals, lodging, etc.), sponsored by:

While it is a tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this hearing. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard. If you have questions about registering to lobby please see Fla. Stat. §11.045 and Joint Rule 1. [2020-2022 Joint Rules.pdf \(flsenate.gov\)](#)

This form is part of the public record for this meeting.

S-001 (08/10/2021)

The Florida Senate

APPEARANCE RECORD

Deliver both copies of this form to
Senate professional staff conducting the meeting

1/18/2023
Meeting Date

Resiliency
Committee

Bill Number or Topic

Amendment Barcode (if applicable)

Name JAMES FRENCH

Phone 239-272-2255

Address 510 21st St SW
Street

Email james.french@colliercountyfl.gov

Naples FL 34117
City State Zip

Speaking: For Against Information **OR** Waive Speaking: In Support Against

PLEASE CHECK ONE OF THE FOLLOWING:

I am appearing without compensation or sponsorship.

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1/18/23

Meeting Date

The Florida Senate APPEARANCE RECORD

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Senate professional staff conducting the meeting

Bill Number or Topic

Amendment Barcode (if applicable)

Committee
Name Hector Flores

Phone 904-204-3818

Address 27126 Harbourn Lakes Blvd

Email hector.flores@charlottecountyfl.gov

Street
Punta Gorda, FL 33983
City State Zip

Speaking: For Against Information **OR** Waive Speaking: In Support Against

PLEASE CHECK ONE OF THE FOLLOWING:

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The Florida Senate

APPEARANCE RECORD

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Hurricane Levee

Bill Number or Topic

1/18/23

Meeting Date

Resiliency Comm

Committee

Amendment Barcode (if applicable)

Name

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Phone

386 248 8072

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State

Zip

Speaking: For Against Information

OR

Waive Speaking: In Support Against

PLEASE CHECK ONE OF THE FOLLOWING:

I am appearing without compensation or sponsorship.

I am a registered lobbyist, representing:

I am not a lobbyist, but received something of value for my appearance (travel, meals, lodging, etc.), sponsored by:

While it is a tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this hearing. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard. If you have questions about registering to lobby please see Fla. Stat. §11.045 and Joint Rule 1. [2020-2022 Joint Rules.pdf \(flsenate.gov\)](#)

This form is part of the public record for this meeting.

S-001 (08/10/2021)

The Florida Senate

APPEARANCE RECORD

Deliver both copies of this form to
Senate professional staff conducting the meeting

Bill Number or Topic

Amendment Barcode (if applicable)

1-18-23

Meeting Date

Resilience

Committee

Name

Mayor DAN ALLERS

Phone

Address

City of Fort Myers Beach

Email

Street

Fort Myers Beach, FL

City

State

Zip

Speaking:

For

Against

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S-001 (08/10/2021)

CourtSmart Tag Report

Room: KB 412

Case No.: -

Type:

Caption: Select Committee on Resiliency

Judge:

Started: 1/18/2023 3:32:16 PM

Ends: 1/18/2023 5:29:37 PM

Length: 01:57:22

3:32:16 PM Michele, please call the roll
3:33:04 PM Pledge of Allegiance
3:33:46 PM Please turn off any device & fill out a speaker card if you wish to speak or waive
3:35:03 PM Sen. Wright is recognized for a comment
3:35:59 PM Sen. Pizzo is recognized
3:36:27 PM Tab 1 - Presentations by Local Governments Impacted by Hurricanes Ian & Nicole
3:37:20 PM First presenter is the Honorable Kevin Ruane, Lee Co. Cmsr.
3:46:15 PM Commissioner Ruane was asked by Chair to remain for questions
3:47:03 PM Vice Chair Pizzo is recognized for a question
3:47:26 PM Cmsr. Ruane responds
3:47:41 PM Follow-up from Sen. Pizzo
3:48:12 PM Cmsr. Ruane responds
3:48:25 PM Sen. Davis recognized for a question
3:48:51 PM Response by Cmsr. Ruane
3:49:21 PM Sen. Harrell recognized for a question
3:50:21 PM Chair Albritton follows up, asking Sen. Ingoglia to add to comment
3:50:52 PM Sen. Ingoglia speaks
3:55:32 PM Chair Albritton makes a comment
3:56:31 PM Thoughts of Cmsr. Ruane requested
3:56:45 PM Cmsr. Ruane responds
3:58:20 PM Follow-up comment from Sen. Ingoglia
3:59:23 PM Cmsr. Ruane responds
4:01:08 PM Chair asks for more questions
4:01:15 PM Sen. Pizzo is recognized
4:01:29 PM Cmsr. Ruane comments
4:02:18 PM Chair introduces 2nd speaker, Jamie French, Dept. Head of Growth Mngment. & Community Development for Collier Co.
4:17:18 PM Question by Chair Albritton
4:17:48 PM Response from Mr. French
4:18:44 PM Question from Albritton
4:19:35 PM Response from Mr. French
4:20:22 PM Sen. Pizzo recognized for question
4:20:40 PM Response from Mr. French
4:20:52 PM Follow-up from Sen. Pizzo
4:21:28 PM Response from Mr. French
4:22:23 PM Question from Sen. Pizzo again
4:22:33 PM Response from Mr. French
4:24:03 PM Third presenter is Hector Flores, Co. Administrator for Charlotte Co.
4:37:05 PM Sen. Harrell recognized for a question
4:37:47 PM Sen. Harrell recognized for a question re: nursing homes
4:37:55 PM Mr. Flores agrees to get Sen. Harrell more info
4:38:14 PM Chair Albritton had a question re: mobile homes
4:38:45 PM Chair has follow-up question
4:39:02 PM Mr. Flores responds
4:39:18 PM Fourth presenter is Jessica Fentress, Coastal Dir. from Volusia Co.
4:56:46 PM Chair Albritton has a question for Ms. Fentress
4:57:15 PM Response from Ms. Fentress
4:57:40 PM Follow-up question from Chair Albritton
4:58:38 PM Response from Ms. Fentress
5:01:35 PM Question from Chair
5:01:45 PM Response from Ms. Fentress
5:02:14 PM Vice Chair Pizzo adds a comment

5:02:31 PM Sen. Wright adds a comment
5:05:45 PM Sen. Wright recognized for a comment/question
5:09:38 PM Vice Chair Pizzo recognized for a comment
5:15:52 PM Back and forth between Pizzo and Ms. Fentress
5:18:34 PM Pepper Uchino, President of the Fla. Shore & Beach Preservation Assn., was deferred to later meeting
5:18:56 PM Dan Allers, Mayor of Ft. Myers Bch, is recognized
5:22:50 PM Vice Chair recognized for a question
5:23:10 PM Mayor Allers responds
5:24:43 PM Sen. Martin recognized for a comment/question
5:27:36 PM Comment by Chair Albritton
5:29:13 PM Sen. Stewart moves to adjourn