



1



2






Jonathan Poyner

jpoyner@scgov.net


941.915.1184

3



LEARNING OBJECTIVES

1. Be able to identify at least two benefits of the Florida coastal ecosystem
2. Be able to identify at least two challenges facing the Florida coastal ecosystem
3. Be able to identify at least two solutions to alleviate some of the pressure put upon the Florida coastal ecosystem



4

What makes these places special?

- Environment
- Health
- Community Building
- Economy



STANDING
TALL
THROUGH
IT ALL
100 YEARS OF ROPA
2022

5

What are the beaches battling?

- Water quality
- Ocean Acidification
- Development
- Coastal Erosion
- Extreme weather
- Marine debris
- Harmful algae blooms



STANDING
TALL
THROUGH
IT ALL
100 YEARS OF ROPA
2022

6

Water Quality and Quantity

- Complicated water control systems
- Dramatic change to the way freshwater flows through the state

Solutions :

- 1) Comprehensive Everglades restoration
- 2) Restoration of waterflow
- 3) Conservation and restoration of wetlands



STANDING
TALL
THROUGH
IT ALL
100 YEARS OF EPA
2022

7

Ocean Acidification

- Oysters, clams, and coral have trouble building shells and skeletons
- Wildlife and reefs are vital to economy

Solutions :

- 1) Reduce carbon footprint
- 2) Join causes that address climate change
- 3) Projects for coral restoration



STANDING
TALL
THROUGH
IT ALL
100 YEARS OF EPA
2022

8

Development

- Loss of habitat
- Sewage treatment and storm water systems
- Prevents island movement

Solutions :

- 1) Conversations for reasonable rate of growth that still protects the natural world
- 2) Restore dunes, native plant growth, manage foot traffic



9

Coastal Erosion

- Upland development
- Recreation and cultural resources
- Wildlife habitat

Solutions :

- 1) Living shoreline
- 2) Soft engineering
- 3) Hard engineering



10

Extreme Weather

- Most hurricanes making landfall
- Highest precipitation rates and lightning strikes
- Homes, businesses, and community infrastructure destroyed

Solutions:

- 1) Green infrastructure
- 2) Planning for building codes
- 3) Funding and help for cleanup after storms



STANDING
TALL
THROUGH
IT ALL
100 YEARS OF EPA
2022

11

Marine Debris

- Environmental impact
- Social and public impact
- Economic impact

Solutions :

- 1) Refuse, reduce, reuse, recycle
- 2) Research, education and outreach for litter prevention
- 3) Host “green and clean” events



STANDING
TALL
THROUGH
IT ALL
100 YEARS OF EPA
2022

12

Harmful Algae Blooms

- Toxins that sicken animals and people
- Starve aquatic life of oxygen and sunlight
- Economic impact

Solutions :

- 1) Control nutrient inputs
- 2) Support outreach into causes, impacts and mitigation
- 3) Marsh restoration, wetland parks, redirecting wastewater



STANDING
TALL
THROUGH
IT ALL
80 years of EPA
2022

13

Working together, we can help save beaches!



STANDING
TALL
THROUGH
IT ALL
80 years of EPA
2022

14



Thank You!

Jonathan Poyner

941.915.1184

jpoyner@scgov.net

FRPA
FLORIDA RECREATION
& PARK ASSOCIATION

For more information about the
Florida Recreation and Park Association
visit frpa.org