



Welcome



1000-1005 **Roll Call/Welcome – Michelle Griggs**

1005-1020 **COVID-19 Summary**

- Adjusted Meeting Plans
- Regional Impacts (ALL)

1020-1025 **Space Force/Command Update**

- Space Florida Stakeholder Engagement Program (SEP)

1025-1040 **Gulf Range Update**

1040-1050 **Regional Updates (ALL)**

1050-1100 **Plan for May/June Meetings and Workshops**

- Focus on Resilience

1100 **Adjourn**



FDA COVID-19 Adjusted 2020 Schedule

In-Person Meetings:

- 16 September 2020 - Tallahassee
- 18 November 2020 - Orlando
- Both day before FDSTF Meetings

Webinar Sessions AM:

- 20 May 2020
- 17 June 2020



**“ALL RIGHT, THEY’RE ON OUR LEFT,
THEY’RE ON OUR RIGHT, THEY’RE IN
FRONT OF US, THEY’RE BEHIND US ...
THEY CAN’T GET AWAY THIS TIME”**

SPACE FLORIDA



Stakeholder Engagement Planning (SEP) Program

Stakeholder Engagement Planning

SPACE FLORIDA

- Space Florida Sponsored Program Design to *Facilitate* Community, Business and Academic Support of the the United States Space Force (USSF)
- Seeks to Anticipate and Qualify USSF Market Potential for Florida Stakeholder
- Provides a Forum to Understand and Document Stakeholder Capabilities and Future Objectives
- Works to Match Stakeholder Capabilities to USSF Requirements and Existing Florida-based Resources



U.S. SPACE FORCE

KEY POINTS FOR ESTABLISHMENT

Fundamentally transform our approach to space from a combat support function to a warfighting domain.

Establish the U.S. Space Force as a separate military service inside the Department of the Air Force.

Maximize warfighting capacity and advocacy for space while minimizing bureaucracy.

Outpace future threats by reenergizing the Defense Department's space development culture to rapidly build, deploy, operate and innovate at low cost.

Bring a full-time operational focus to defend our vital national interests in space.



S. 2657 American Energy Innovation Act of 2020

SA 1442. Mr. RUBIO (for himself and Mr. SCOTT of Florida) submitted an amendment intended to be proposed to amendment SA 1407 submitted by Ms. MURKOWSKI and intended to be proposed to the bill S. 2657, to support innovation in advanced geothermal research and development, and for other purposes; which was ordered to lie on the table; as follows:

At the appropriate place, insert the following: SEC. III. MORATORIUM ON OIL AND GAS LEASING IN CERTAIN AREAS OF GULF OF MEXICO. Section 104(a) of the Gulf of Mexico Energy Security Act of 2006 (43 U.S.C. 1331 note; Public Law 109–432) is amended in the matter preceding paragraph (1) by striking “June 30, 2022” and inserting “June 30, 2032”.



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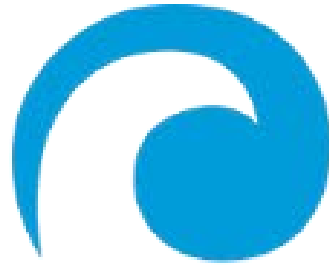
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The National Center for Simulation

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[linkedin.com/company/national-center-for-simulation](https://www.linkedin.com/company/national-center-for-simulation)

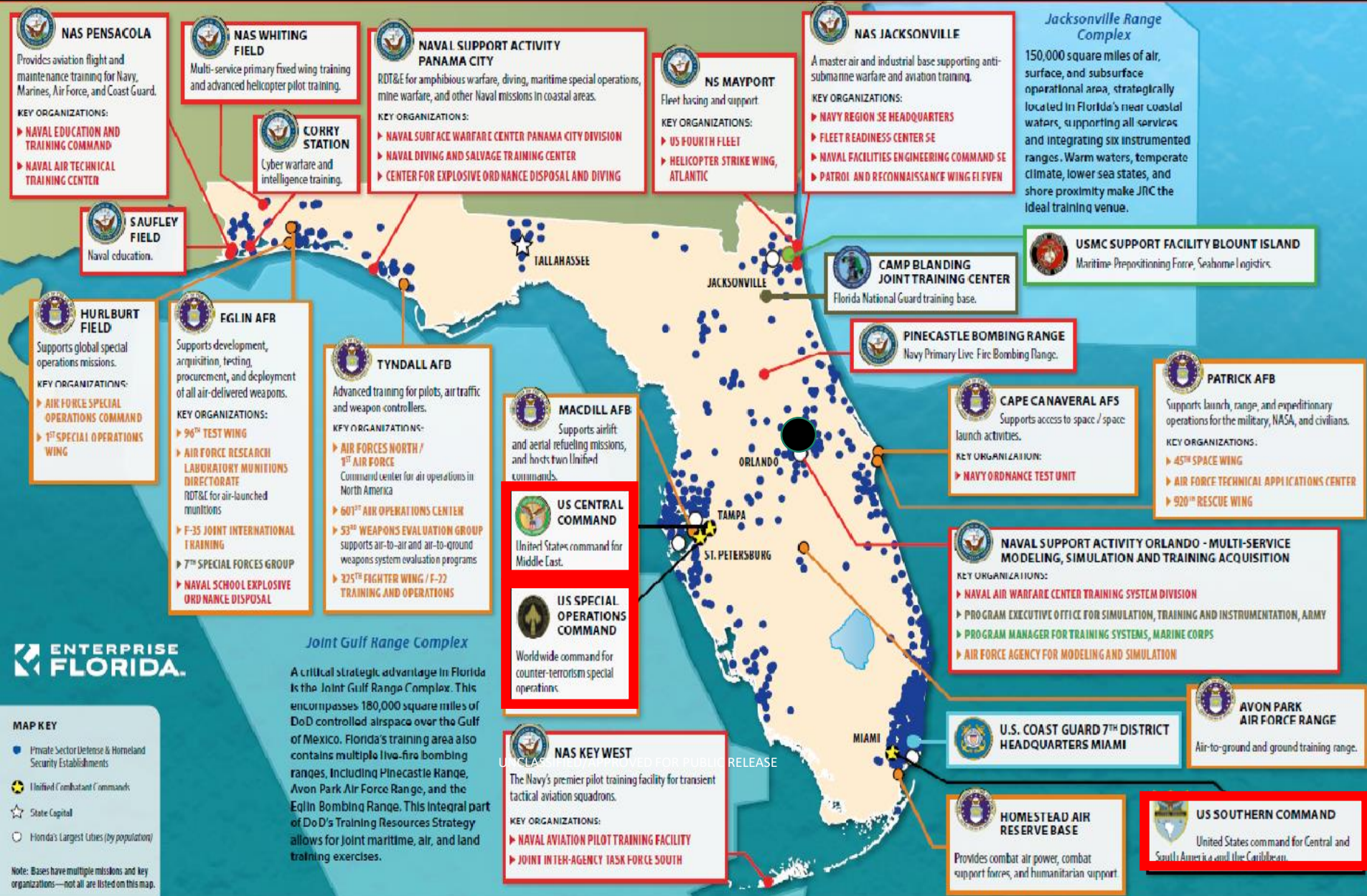
www.simulationinformation.com

George E. Cheros
President & CEO

Neal M. Finkelstein, Ph.D.
Chief Operating Officer

May '20

Department of Defense Bases, Agencies, & Headquarters'



Florida DoD State Impact

Now 2020
\$94.9 Billion

Then 2017
\$84.9 Billion

REF: University of West Florida HASS Center Florida Defense Alliance Working Group Study



The National Center for Simulation (www.simulationinformation.com)

How We Work In Partnership



COLLABORATIVE ALLIANCE



ALL SUPPORTED BY
GOVERNMENT OFFICES
AND COMMITTEES

**LOCAL
STATE
FEDERAL**

SUPPLEMENTED,
SUPPORTED AND
AUGMENTED BY


THE NATIONAL CENTER
FOR SIMULATION
NCS and 240+
Industry Leading
Businesses


University of
Central Florida
and Others
from Academia


THE
CORRIDOR
Regional High
Tech Interests


ORLANDO
ECONOMIC
PARTNERSHIP

UNIQUE COLLABORATION
OF LEADING MILITARY
SIMULATION COMMANDS


STR I



Important Mission

Modeling



Time

Simulation

==
saves
==

Money

&

&

Training



Lives



NCS Membership Growing



INDUSTRY RESOURCES



THE NATIONAL CENTER
FOR SIMULATION

PLUS OVER
260
PLAYERS
INCLUDING...

AEgis	Huntington Ingalls
AVT Simulation	Industrial Smoke & Mirrors
Boeing	Kratos
Bohemia Interactive Simulations	Lockheed Martin
CAE	Luminar
Cole Engineering Services	Nemours Children's Hospital
Cubic	Nova Technologies
Dignitas	Polhemus
Disney	Rockwell Collins
Elbit Systems	Schlumberger
Engineering & Computing Simulations	Shell
Flight Safety International	Serious Simulations
General Dynamics	SIMETRI



Advocate For MS&T Technology Transfer



Transportation



Energy



Cyber



Homeland Security



Medical City – Lake Nona



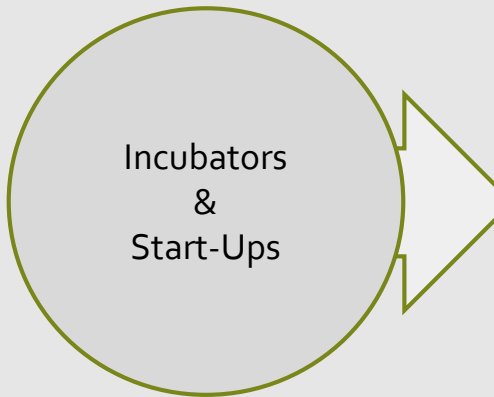
Space Coast



Gaming & Digital Media
Downtown



Chips & Optics
Manufacturing



Education



Cyber Security Capability in the National Security Space Domain

SPACE FLORIDA

2 Goals

- Short Term – Capture the HQ of the US Space Command
 - How does Florida's cyber capability provide a competitive advantage to capturing USSPACECOM?
- Long Term – Capture more National Security Space Cyber Programs, Missions & Units
 - How can we best leverage that capability to capture more of the US space enterprise cyber funding in the next 3-10 years?

Cyber Security Capability in the National Security Space Domain

SPACE FLORIDA

- Strengths
 - Depth and breadth of capability
- Weaknesses
 - Diversity of applications spread across the state
 - Is it a sufficiently known strength within the offices in the Pentagon making the USSPACECOM HQ decision?





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Bring a full-time operational focus to defend our vital national interests in space.

Accelerating Job Placement In Classified Positions (cybersecurity as an example sector)

Retaining the value and investment in existing security clearance holders



Office of Military
Engagement
UNIVERSITY of WEST FLORIDA



University of West Florida
CAPT Christopher A. Middleton, USN, ret.
cmiddleton@uwf.edu
(360) 632-7636

In partnership with the
West Florida Defense Alliance
and the
Tampa Bay Defense Alliance
Maj. Gen. Larry Martin, USAF, ret.
Mr. Tim Jones, CEO, Cybrix Group

Overview (for technology employers)

- **Problem: Workforce shortfalls for contracting pipeline**
- **Opportunity: Improve readiness-to-hire at time-of-hire**
 - **Delays cost employers in downtime (12-18 months for security clearance processing)**
 - **Example for a defense company in a low-cost area: \$48K salary x 2.0 wrap = \$96K (plus HR ovhd = \$100K or more)**
- **Method:**
 - **Inventory the candidate - skills, employment, military occupation, military experience and learning history**
 - **Identify precision hiring, upskilling, placement**
 - **Acknowledge barriers in timing, cost and access in the legacy OPM process required by 5 CFR 731, 732 and 736**
 - **Accelerate the process within existing regulations**
 - **Leverage Tentative Job Offer (TJO) and Provisional Degree from higher-education institution to submit SF-86 or SF-85**

UWF Multidisciplinary Cybersecurity Programs

Undergraduate Programs

- BS in [Cybersecurity: NSA/DHS CAE Program](#)
- BS in Information Technology: [Cybersecurity](#)
- BS in [Computer Science & Software Development](#)
- BA in International Studies: [Security and Diplomacy](#)

Graduate Programs

- MS in [Cybersecurity](#)
- MS in Information Technology: [Cybersecurity](#)
- MS in [Computer Science](#)
- MBA: [Information Security Management](#)
- MA in Political Science: [Security and Diplomacy](#)

Certificate Programs

- [Cybersecurity](#)
- [Intelligence Analysis](#)
- [Information Security Management](#)

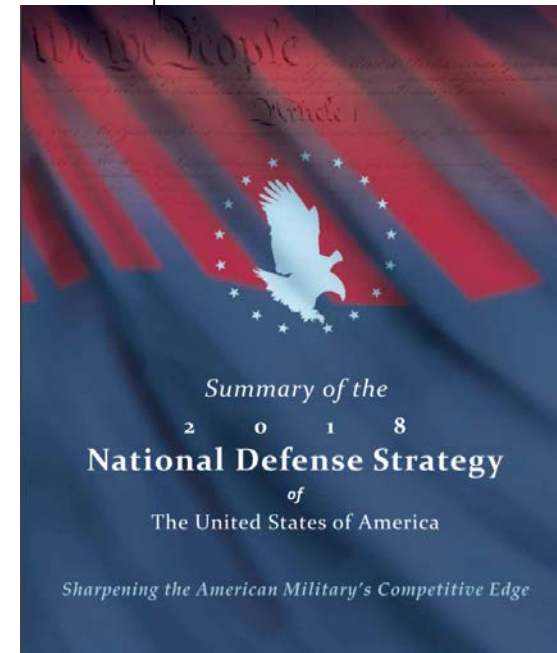


Strategic alignment

- Increased Executive and Federal focus on Cybersecurity readiness and talent shortfall
- Security clearances have significant value to Federal hiring base and industry
- Identifying, aggregating, preserving and placing members with clearances will accelerate the hiring cycle
- Speed, agility and public-private partnerships, including academia, are supported by nested executive and strategic imperatives
- Available Federal regulations exist to maintain program integrity and risk management

18125
Presidential Documents
Executive Order 13869 of April 24, 2019 Transferring Responsibility for Background Investigations to the Department of Defense

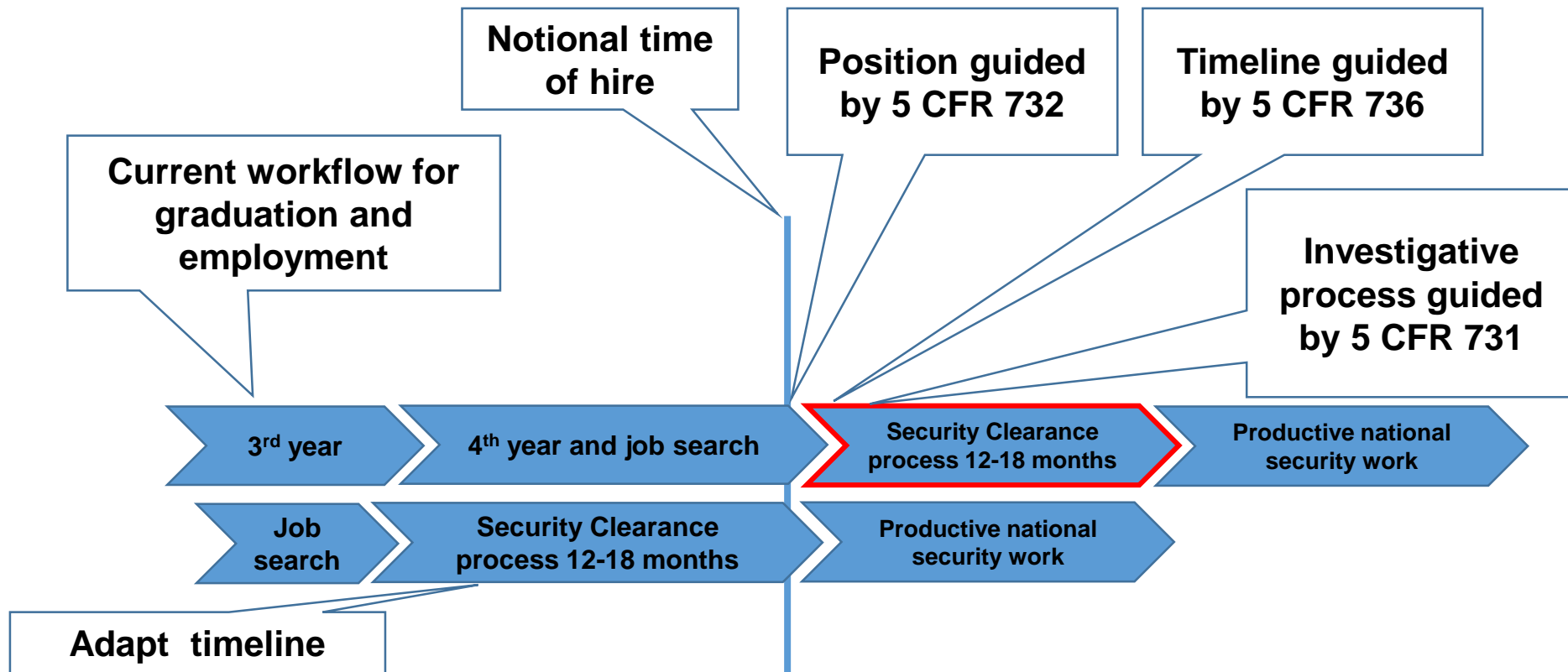
20523
Presidential Documents
Executive Order 13870 of May 2, 2019 America's Cybersecurity Workforce



stitution and the continued American way of life as hereby ordered as

is a strategic asset of the American way of life. The Department of Defense emphasizes that the Cybersecurity Workforce will serve the national interest and the United States Government security practitioners contributions made to the development of cyber-operations that America can lead in the 21st century.

Process opportunity: 5 CFR 731, 732, 736



- Risk management intact
- Student is in a cyber track
- TJO is conditional on degree
- Provisional degree indicates progress (lowers risk)
- SF-86 or SF-85 is submitted

- Private industry gains a ready pool of talent to support response to RFPs
- NSA/DHS CAE system guides learning content for cyber example
- Student and veteran profiles are inventoried and tracked for timing

Proposed: Pilot program (example cyber)

- **Select 100-1000 cybersecurity students across the FL SUS in their third year or within one year of graduating from a NSA/DHS CAE RRC institution**
- **Inventory candidate readiness, qualifications, credentials, credits and skills sets**
- **Use existing regulations to offer a tentative job offer (TJO) and have a FL SUS institution issue a provisional degree**
- **With both a TJO and a provisional degree, then use available OPM regulations to submit SF-86 or SF-85**
 - **No system risk introduced or increased**
 - **Clearance is still adjudicated at time of hire, not sooner**
 - **5 CFR investigative process advanced, in time only, to close the gap between degree or certificate complete and hire**
- **Dual-track with private industry and veteran hiring**
- **Assess and report outcomes**

Innovations to inventory a member

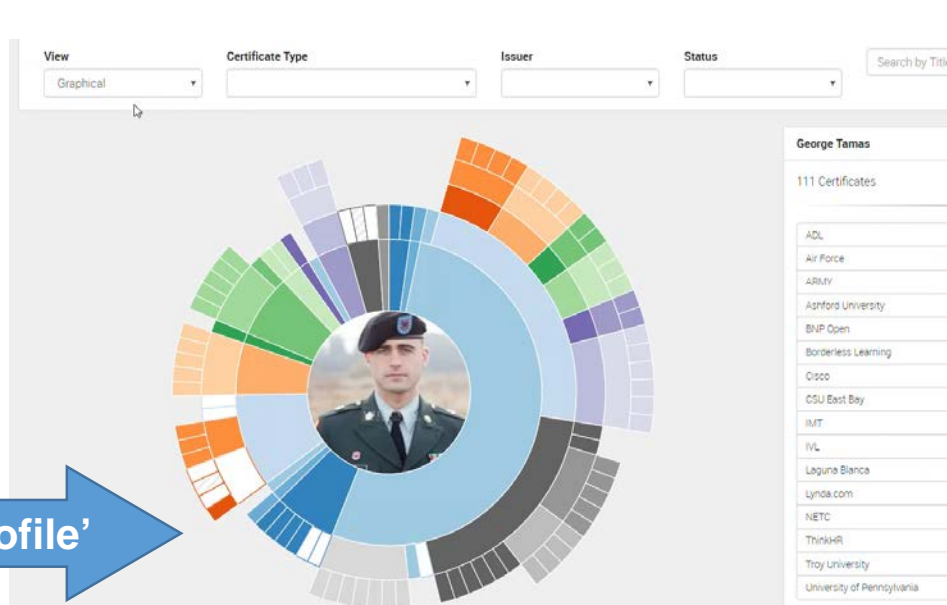
- A single-page, digital, authenticated, visual and mobile-enabled platform that can document workplace and education experience, and occupational or military training and deployments
- LearnX builds off numerous existing Federal and Industrial Policy initiatives to harness emerging technologies and standards in the talent marketplace
- LearnX specifically accelerates precision hiring, advancing the education and workforce industry efforts with more effective pathway management

LEARNX

George Tamas

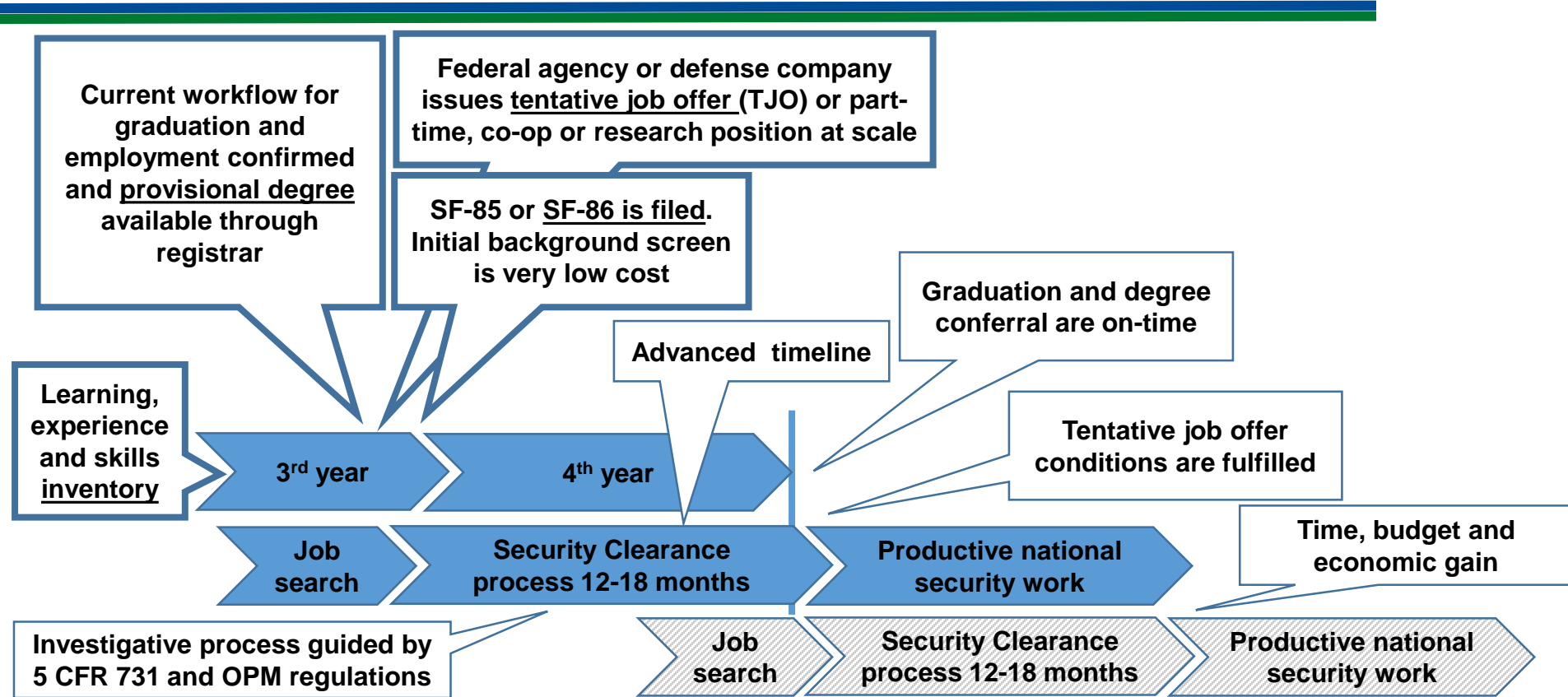
Item	Issuer	Course/Topic	Start Date	End Date	Details	Certificate
OMM 432 Managing in Social Change	armies university	Civ Education: Course/Topic	Certification 07-13-2009	Planned 07-13-2009	Details	Certificate
OMM 434 Innovation & Entrepreneurship	armies university	Civ Education: Course/Topic	Certification 06-04-2009	Planned 08-24-2009	Details	Certificate
OMM 425 Learning Organization & Effectiveness	armies university	Civ Education: Course/Topic	Planned 10-15-2009		Details	Certificate
OMM 445 Business Ethics & Social Responsibility	armies university	Civ Education: Course/Topic	Planned 11-16-2009		Details	Certificate
NCO Evaluation Report: Duty Description	army	M/J Performance Review/NSA Eval	Certification 06-06-2013		Details	Certificate
NCO Evaluation Report: Army Values	army	M/J Performance Review/NSA Eval	Certification 06-06-2013		Details	Certificate
NCO Evaluation Report: Competence	army	M/J Performance Review/NSA Eval	Certification 06-06-2013		Details	Certificate
NCO Evaluation Report: Physical Fitness & Military Bearing	army	M/J Performance Review/NSA Eval	Certification 06-06-2013		Details	Certificate
NCO Evaluation Report: Leadership	army	M/J Performance Review/NSA Eval	Certification 06-06-2013		Details	Certificate
NCO Evaluation Report: Training	army	M/J Performance Review/NSA Eval	Certification 06-06-2013		Details	Certificate
NCO Evaluation Report: Responsibility & Accountability	army	M/J Performance Review/NSA Eval	Certification 06-06-2013		Details	Certificate
NCO Evaluation Report: 1204: OVERALL PERFORMANCE AND POTENTIAL	army	M/J Performance Review/NSA Eval	Certification 06-06-2013		Details	Certificate
Publications: "From One Leader to Another"	army	Publication	Certification 01-01-2013		Details	Certificate

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Accelerate - evolve from 'resume lists' to 'profile'

Pilot program flow and timing



- Risk management intact
- Student is in a cyber track
- TJO is conditional on degree
- Provisional degree indicates progress (lowers risk)
- SF-86 or SF-85 is submitted

- Private industry has a pool of talent to support response to RFPs
- NSA/DHS CAE system or similar, guides learning content
- Student and veteran profiles are inventoried and tracked for timing



DEO Cybersecurity Training and Awareness Program for FL Defense Contractors

Grant awarded by the DoD Office of Economic
Adjustment

Statewide Rollout Plan

DEO has received a grant by the DoD to create a cybersecurity training and assistance program for FL Defense Contractors.

Over the next year DEO will:

- Promote awareness of and aid Florida's Defense Industrial Base (DIB) in implementing the current DFARS and NIST 800-171 Standards for cybersecurity requirements, as well as general business continuity, risk management and resilience principles, and
- Allow members of the Florida DIB to understand and prepare for the Cybersecurity Maturity Model Certification (CMMC) requirements currently being developed by the DoD for implementation by all contractors doing business with the DoD beginning this year (and fully implemented within 5 years).

Education and Awareness Events

Conduct Regional Bootcamps:

- DEO will work with strategic local partners to engage the defense supplier community. National, state and local resources in cybersecurity training and technical assistance will also be encouraged to participate, following initial vetting and evaluation.
- Virtual or webinar capabilities will be available to allow us to conduct these sessions online as necessary during the present Covid situation.

Tools for Small Businesses

- The grant will allow us to provide funding and assistance for FL Defense Contractors to comply with the current DFARS and NIST 800-171 Standards for cybersecurity.
- We will also provide additional resources for companies within the FL defense supply chain to assist them in developing best practices and planning for business continuity and resiliency.

Please Join Us!

- Partner on a Regional Event
- Host a training Boot Camp for Defense Contractors
- Host a Webinar Training Session
- Invite us to speak to your organization
- Help us spread the word to Florida's Defense Industrial Base



Questions?

Resiliency & Encroachment Panel

1025 - 1115

That look when your coworker is trying to talk on the Zoom meeting but doesn't realize they are muted

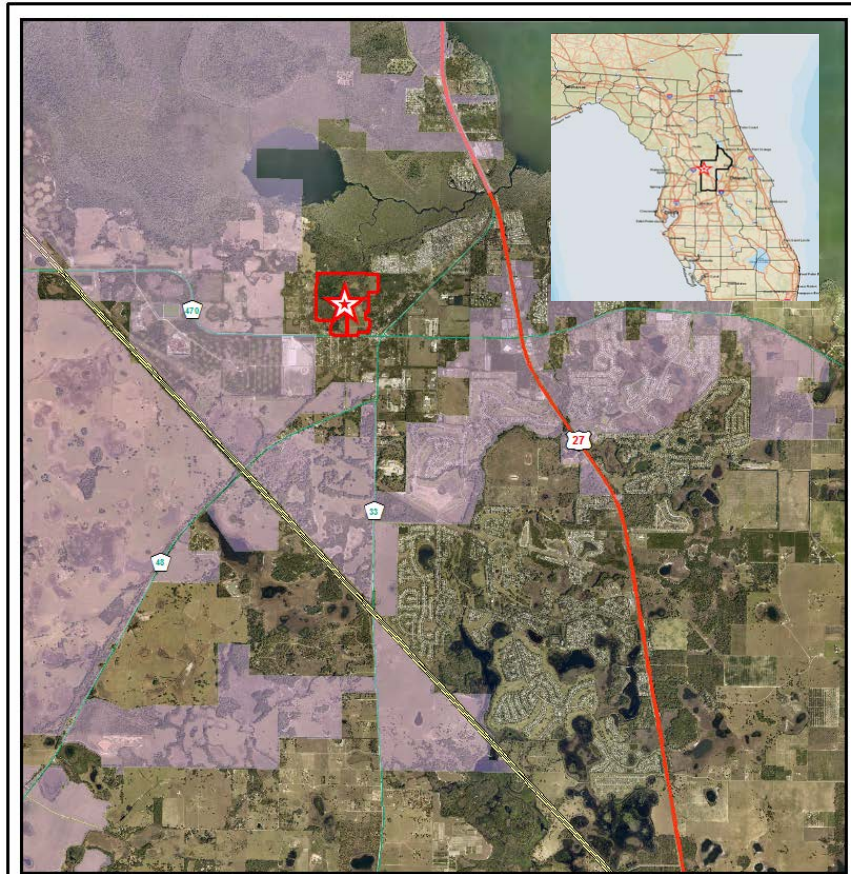





- **Dave Dahl, Mission Sustainment Officer, Navy Region Southeast**
 - Naval Undersea Warfare Command Leesburg Facility
 - Bugg Spring Mission Assurance Efforts
- **Randy Roy, Community Planning Liaison Officer, NAS Whiting Field**
 - NAS Whiting Field / City of Milton Wastewater Plant
 - DCIP Facilities Resilience Application
- **CAPT Harry Mautte, USCG, Commanding Officer, Base Miami Beach**
 - USCG Encroachment and Incompatible Development Challenges
 - Base Miami Beach / D7 HQ / Richmond Heights
- **Matt Schellhorn, Community Planning Liaison Officer, NAS JAX & Don Heaton, Range Director, FCASFAXJAX**
 - Pinecastle Range Complex
 - Operations and Outreach



Naval Undersea Warfare Center Leesburg Facility, Okahumpka FL



Lake County



0.75 0.375 0 Miles
1:54000


Florida's First Magnitude Springs Florida Forever Project Bugg Spring Additions Okahumpka, Florida

City of Leesburg

The St. Johns River Water Management District prepares and uses the information for its own purposes and the information may not be suitable for other purposes. This information is provided as is. Further documentation of this data can be obtained by contacting: St. Johns River Water Management District, Geographic Information Systems, Program Management, P.O. Box 1428, 4049 Reid Street Palatka, Florida 32178-1429 Tel: (386) 329-4176.



Lake County



0.06 0.03 0 Miles
1:4493

Florida's First Magnitude Springs Florida Forever Project Bugg Spring Additions Okahumpka, Florida

Bugg Spring Additions

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K:\all Path: U:\Real Estate Services\Special Projects\Bugg Spring-Naval Undersea Warfare Center Okahumpka\001A20XX-XX-Bug\Map\Application\Map\BuggSpring-Regional.mxd 5/21/2019

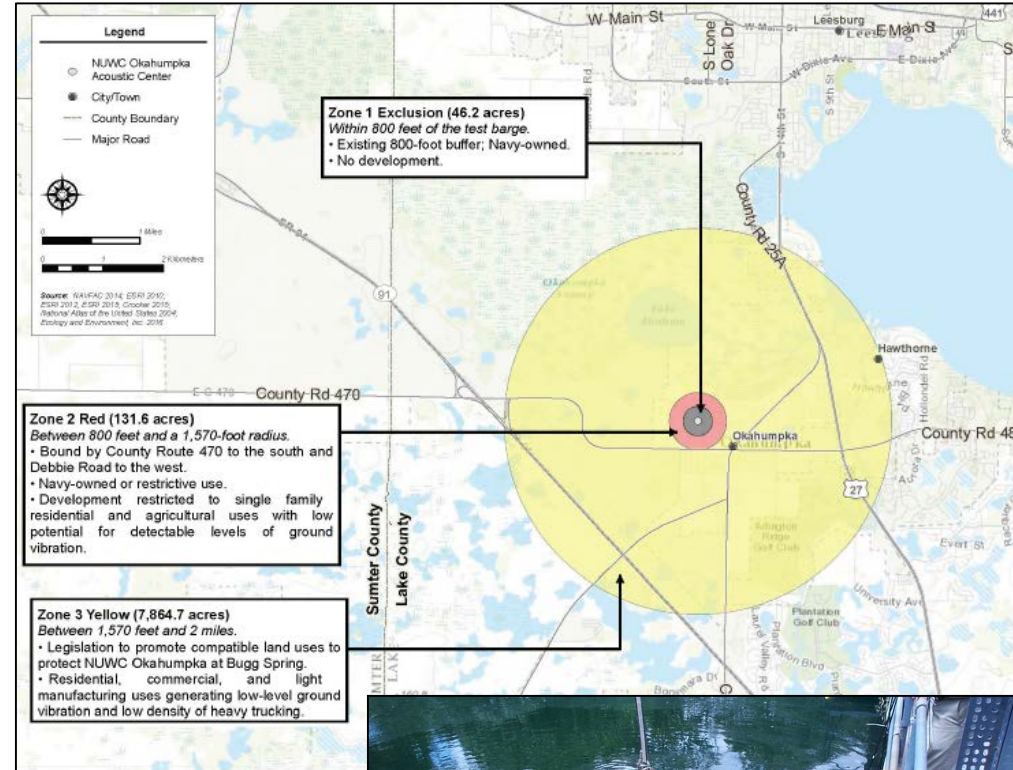
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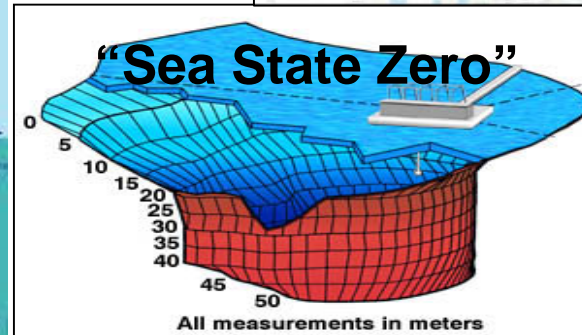
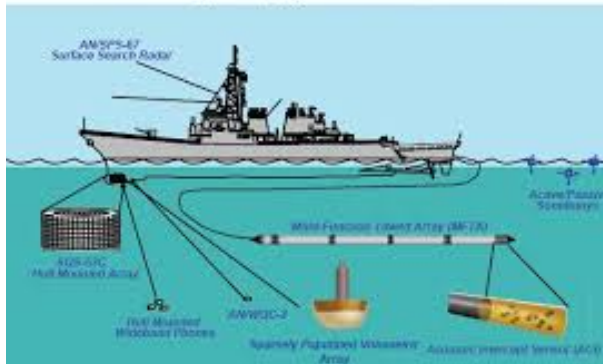
Naval Undersea Warfare Center Leesburg Facility, Okahumpka FL



- Naval Undersea Warfare Center (NUWC) maintains an open water facility at Bugg Spring in Okahumpka
- Acoustic measurements performed in Bugg Spring serve critical functions in the research, development and in service support of Navy SONAR systems
 - Only location that calibrates towed SONAR arrays
 - Research and development will bring next generation of advanced SONAR systems to the fleet
- Dense vegetation surrounding the spring and its somewhat isolated location contribute to the low noise levels and integrity of the spring



AN/SQQ-89A(V)15 Sensor Suite





Lake County/Leesburg Overlay District



Land Use Buffer at Naval Undersea Warfare Center Okahumpka

Compatibility Issues

Maintaining an environment with little noise and vibration is critical to the mission at Naval Undersea Warfare Center (NUWC) Okahumpka. The Department of the Navy (DON) owns the land within an existing 800-foot buffer to help maintain an environment conducive to the mission of NUWC Okahumpka; however, given the sensitivity of testing equipment and anticipated growth in the region, DON would like to partner with Lake County, Sumter County, and the City of Leesburg to promote compatible land use within an extended buffer area to protect NUWC Okahumpka without impacting nearby economic development.

Background

Dr. Steven Crocker, a noise specialist, assisted DON in developing land use compatibility zones beyond the existing 800-foot buffer. These zones correspond to areas within which land uses that produce noise or vibration could affect NUWC Okahumpka. The map on the right depicts these land use compatibility zones.

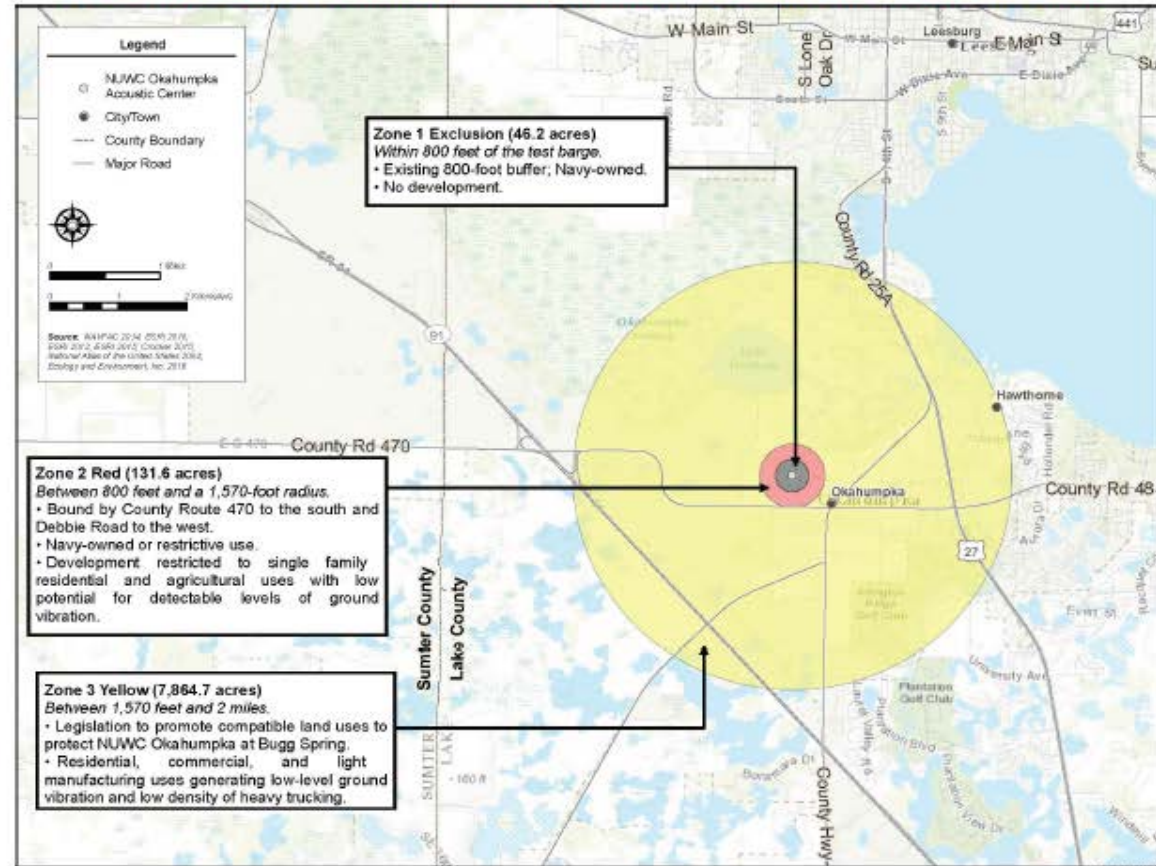
Discussion

Recommended compatible and incompatible land uses within each zone are based on the American Planning Association's (APA's) Land Based Classification Standards (<https://www.planning.org/lbcs/>). The list of compatible and incompatible land uses are included on the back of this handout. Column headings represent each zone in the buffer. Row headings represent land uses. If a given land use is compatible in a zone of the buffer, the data cell intersection will include a "Y" for yes, compatible. If a given land use is incompatible in a zone of the buffer, the data cell intersection will include an "N" for no, incompatible.

Recommendation

- Lake County, Sumter County, and the City of Leesburg should incorporate buffer zone data as a standard layer in the county or city GIS dataset for reference in planning efforts.
- DON should partner with Lake County, Sumter County, and the City of Leesburg to draft and sign a formal agreement that the counties and city will incorporate the buffer in planning decisions.
- Lake County, Sumter County, and the City of Leesburg should incorporate the APA-based land uses on the back of this handout in planning efforts and approvals.

Proposed Buffer Zones Surrounding Naval Undersea Warfare Center Okahumpka, State of Florida





NAVAL AIR STATION WHITING FIELD

Providing for our nation's future





Defense Community Infrastructure Pilot (DCIP) Program

Naval Air Station Whiting Field has been engaged with the City of Milton and Santa Rosa County with respect to the Office of Economic Adjustment (OEA) DCIP grant program.

- ✓ Facility located on over 43,000 acres (67 square miles).
- ✓ Operational since the 1960s.
- ✓ Footprint encompasses NAS Whiting Field, Whiting Aviation Par and Whiting Pines Navy Family Housing.
- ✓ Existing facility is above 80% capacity and projected to reach maximum capacity by 2024.



Located downtown Milton in Santa Rosa County.

DCIP Request:

\$6M



OEA grant application coordination/viability:

- ✓ Project is viable and essential – FEMA has already invested over \$12M to protect and maximize capacity of existing facility. The State of Florida, Santa Rosa County and City of Milton have appropriated funds or approved budgets toward the site expansion project.
- ✓ Project requires approximately \$31.1M to complete – the request of \$6M under the OEA grant will provide the budget \$\$ gap to complete.
- ✓ New facility will increase capacity by 140% - providing a capability and need to handle economic and military development/growth in central Santa Rosa County for decades to come.
- ✓ Completed project will be sustained through dedicated Enterprise Funds and projected revenue in anticipated community and business growth.



Summary:

- ✓ Grant opportunity would address an aging and “near capacity” wastewater treatment facility that dates back to the 1960s.
- ✓ City’s proposed project has completed several long-lead items to include match funding, design, permitting/planning and required grant program criteria elements that make it feasible, reasonable and allocable.
- ✓ Targeted “shovel-ready” project (if approved) will help enhance the installation’s planned mission growth and resiliency to sustain personnel, pilot training and required infrastructure.
- ✓ City of Milton contributions toward the effort is approximately 80% - well above the required 50% match as directed in the NDAA and OEA grant application requirements.
- ✓ Completed facility will eliminate 100% of treated water discharge into the Blackwater River Forest.



QUESTIONS





Encroachment on Coast Guard Facilities



Base Miami Beach: Proposed Rezoning and Residential Condo
Tower Development on Terminal Island

CG Seventh District: Downtown Miami Development

CG Communications Facility: County Acquisition Attempts



Base Miami Beach and Terminal Island



City Fleet Mgmt
Facility

Terminal Island
Proposed Location
of Development



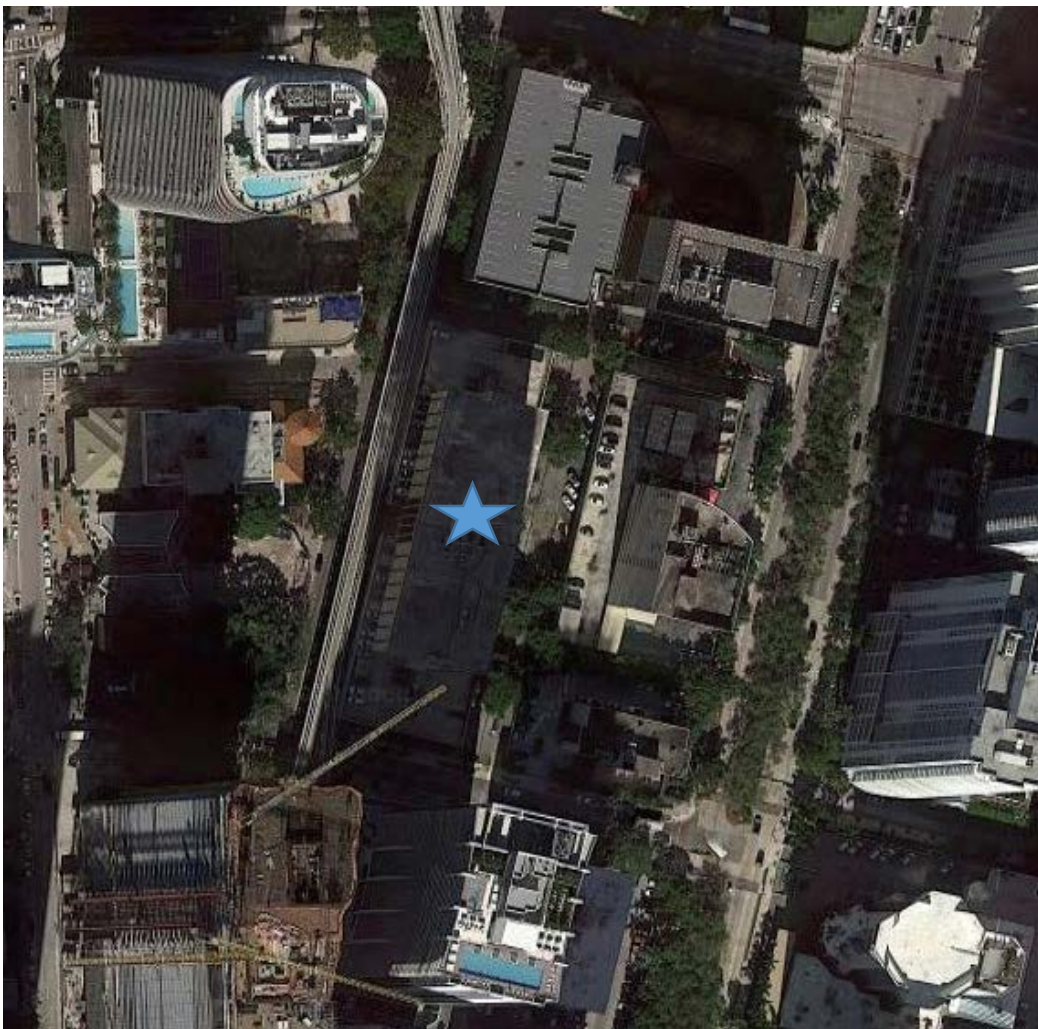


Proposed Development





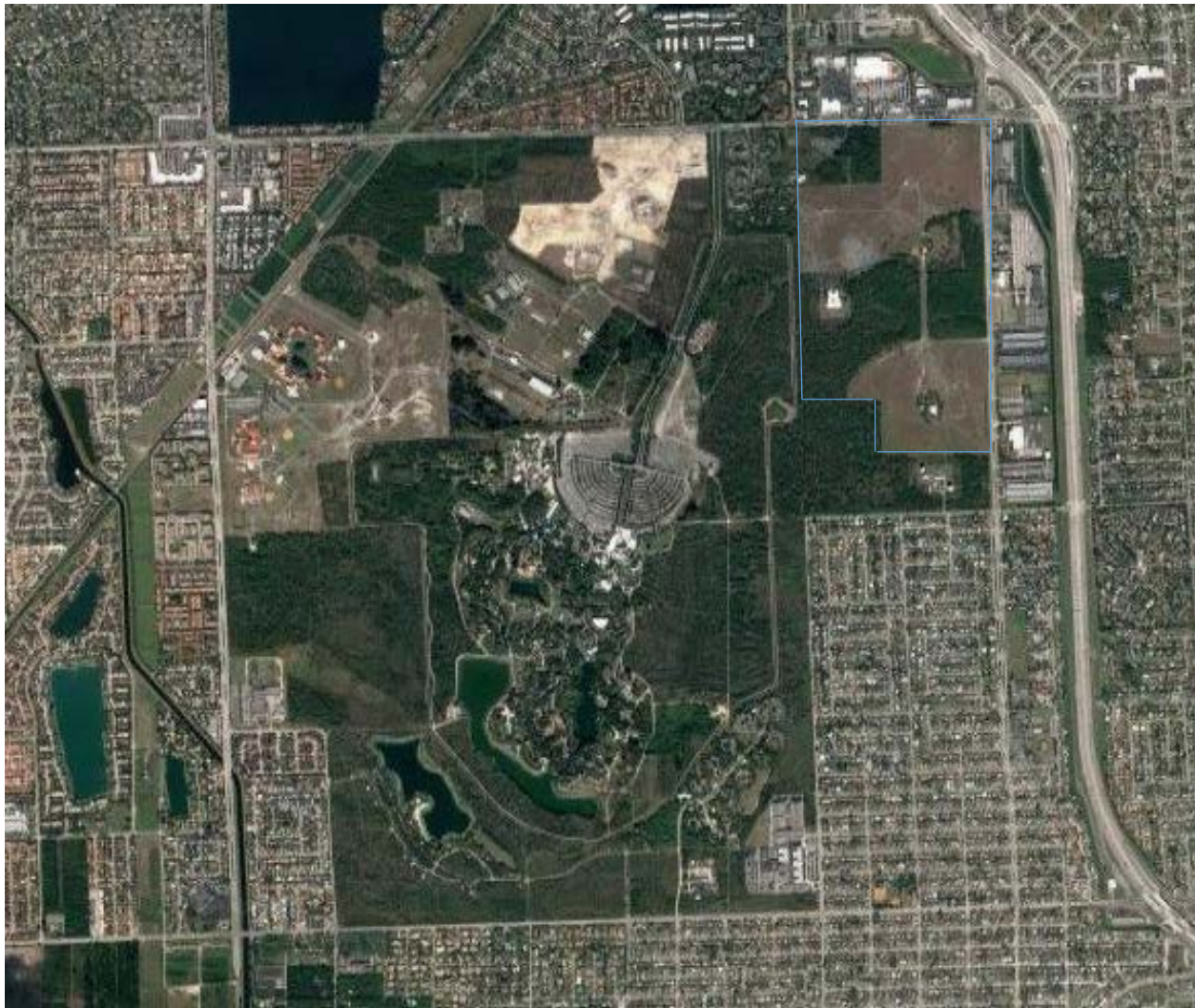
District 7 GSA Federal Building



D7



Base Miami Beach Richmond Height Detachment



- Civil Engineering Unit Miami
- Base Personnel Servicing Office
- Area Housing Office
- Personal Property Shipping Office
- Medium Frequency Transmitters
- HF Transmitters & Receivers air to ground communications
- NOAA Satellite Receiver for EPIRB



FLEET AREA CONTROL AND SURVEILLANCE FACILITY JACKSONVILLE



PINECASTLE RANGE COMPLEX BRIEF

20 MAY 2020

Brief Presenter: Don Heaton, Director, FACSFACJAX
Matt Schellhorn, CPLO NAS Jacksonville

Pinecastle Range Complex
Commanding Officer: CDR Doug "Spooner" Hale

UNCLASSIFIED



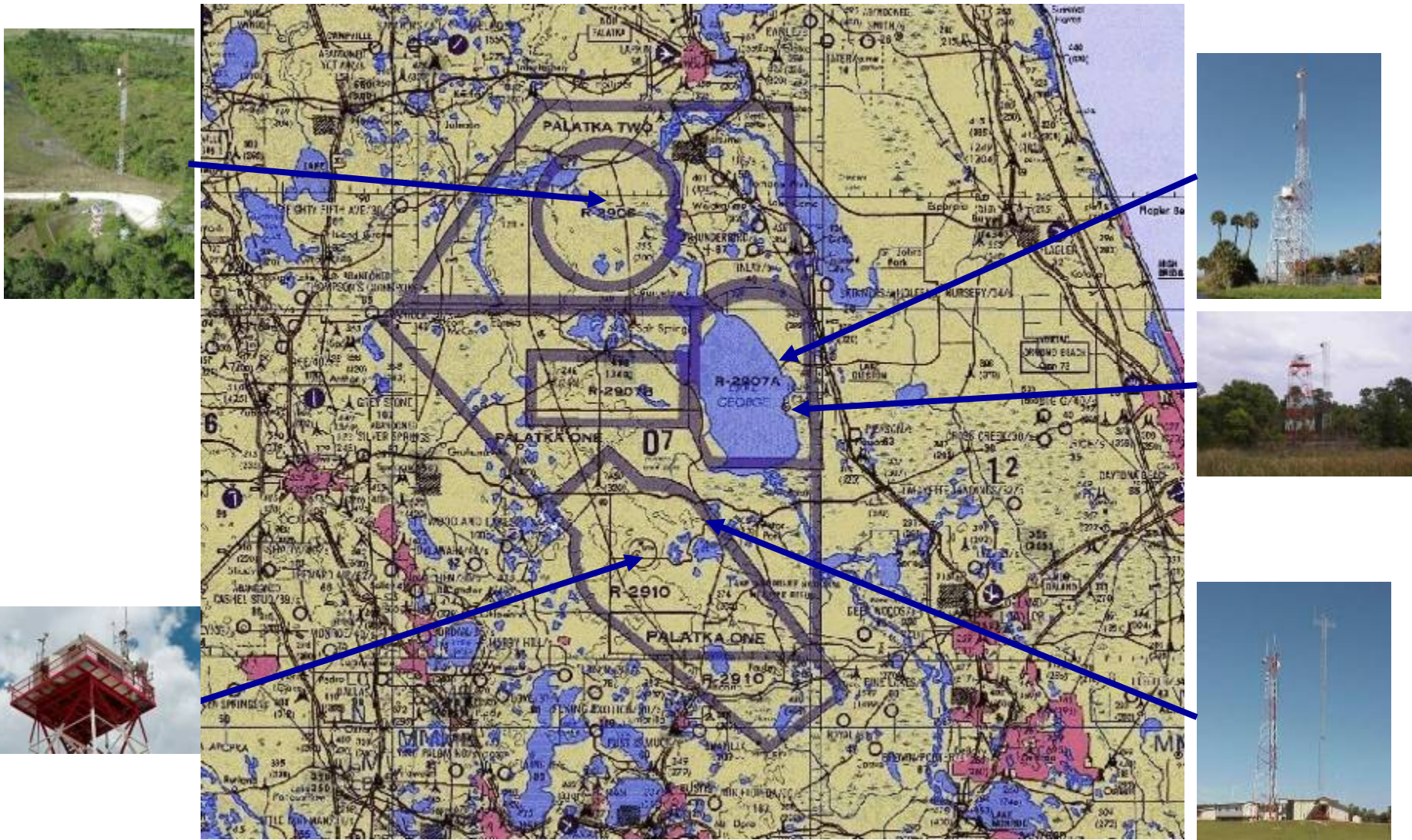
HISTORY



- Early 1940s, the War Department acquired 40,587 acres of Ocala National Forest for the Lake Bryant Bombing and Gunnery Range.
- June 27, 1941 A Temporary Use Permit allowed 23,167 acres for training.
- January 11, 1943 Two (2) Memoranda of Understanding to use additional 17,420 acres.
- During World War II, the range was used by U.S. Army Air Forces Command and was under Jurisdiction of the Pinecastle Army Air Field and the Orlando Army Air Base.
- Following World War II, the War Department determined the range was no longer required and relinquished to the U.S. Department of Agriculture by letter of transfer on May 20, 1947.
- August 2, 1951 U.S. Navy reacquired use of a portion of the original range (5,698 acres).



PINECASTLE RANGE COMPLEX





PINECASTLE RANGE SYSTEMS



- Weapons Impact Scoring Set (WISS)
 - Pinecastle



LIVE IMPACT AREA (LIA)



RUNWAY TARGET



URBAN COMPLEX TARGET



LAKE GEORGE TARGETS



LAKE GEORGE WATER RANGE

Training Events

- Utilized for MINEX events
- Utilized to support AMM events
- Utilized to support Helicopter advanced tactics

Approved Use

- Inert ordnance drops
- Helicopter flares

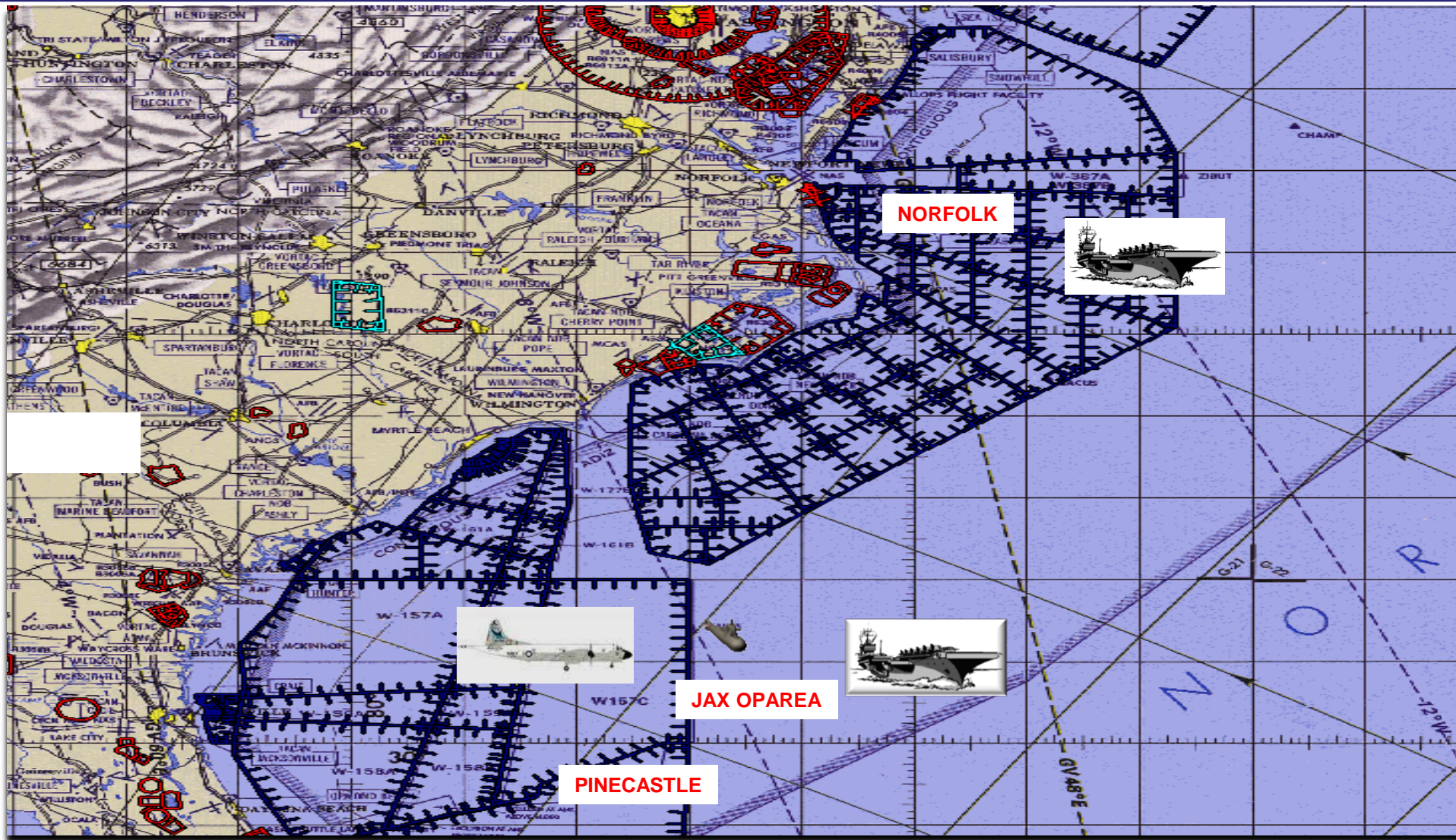
Size

- 2 miles X 7 miles.





FLEET TRAINING SUPPORT





NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) COMPLIANCE



NUMEROUS teams combine efforts to support the mission at the Pinacastle Range Complex. From left, Pinacastle staff includes Aaron Bessell, Lee Shultz, NAF Environmental Division Hazardous Waste Assistant Manager John Smith, NAF Environmental Division Natural Resources Manager Angela Class, Pinacastle Range Director Don Houston, U.S. Forest Service District Ranger Chris Beaser, Pinacastle Range Maintenance Supervisor Charles Tomson and Fleet Area Control and Surveillance Facility Air Commanding Officer Capt. Scott Campbell.



NAF Environmental Division Hazardous Waste Assistant Manager John Smith (right) inspects barrels of methachloro waste with Glenn Hughes, an AFCEC technician at the Pinacastle Range Complex. Smith travels to Pinacastle twice a month for inspection.

Chad DeLauriers, an electronic technician from Ground Electronic Maintenance Division, inspects the Automated Surface Observing System at the Pinacastle Range.

Pinacastle Range Complex continues to protect environment

By Julie M. Lucas
10/10 Jacksonville Public Affairs

In 1951, the U.S. Navy began using Pinacastle Range Complex, located in the middle of the Ocala National Forest. Today, it continues to be the only range on the East Coast for live ordnance used by the Navy, as well as the Air Force, Marine Corps and Army.

The range is approximately 5,000 acres of a 383,000-acre national forest that is home to animals on the state species special concerns list. Due to the activities that take place, NAF Jacksonville's Environmental Division staff makes it their mission to check on the land and local animals.

With rolling, sandy hills on the range, the gopher tortoise had to make its home at Pinacastle. According to NAF Jacksonville's Environmental Division Natural Resources Manager Angela Class, if the tortoises were bothered by the insect and fire bombs they would move away.

"These are solitary animals and can move freely around the range, therefore this is a favorable habitat for them," she said.

Class uses GPS to record the burrow locations and inserts a small camera to determine if the burrow is active. Measurements are taken at the site of the burrow, which can show the size of the tortoise.

An estimated 500 gopher tortoises live on Pinacastle, NAF Jacksonville, Redman Range and Outlying Landing



ETZ Examine Range, formerly with Ground Electronic Maintenance Division, performs routine maintenance on an Automated Surface Observing System that alerts aviation with weather information.

Field Whitehouse. Other local protected species include the Florida scrub jay and Eastern Indigo bunting. The end of Ocala National Forest is home to wild burrs and deer that the U.S. Fish and Wildlife Service estimates 100,000 visitors per year enjoy on

is located 40 miles north of Pinacastle.

Along with protecting wild life, steps are taken to preserve the environment. Prescribed burns are performed through-out the Ocala National Forest and Redman range, which

new habitats and old to prevent large uncontrolled fires that can occur from a variety of things, especially lightning strikes the hazardous fuels such as old pine needles and

- Pinacastle Environmental Impact Statement (EIS) – 2002
- Jacksonville Range Complex EIS – 2009
- Pinacastle Supplemental Environmental Impact Statement (SEIS) – 2010
- Environmental Assessment Addressing the Expansion of the Pinacastle Range Complex Restricted Area - 2012
- Pinacastle Range Complex Environmental Assessment (EA) – Started 2018



Naval Aviation War-fighting readiness for our National Security.





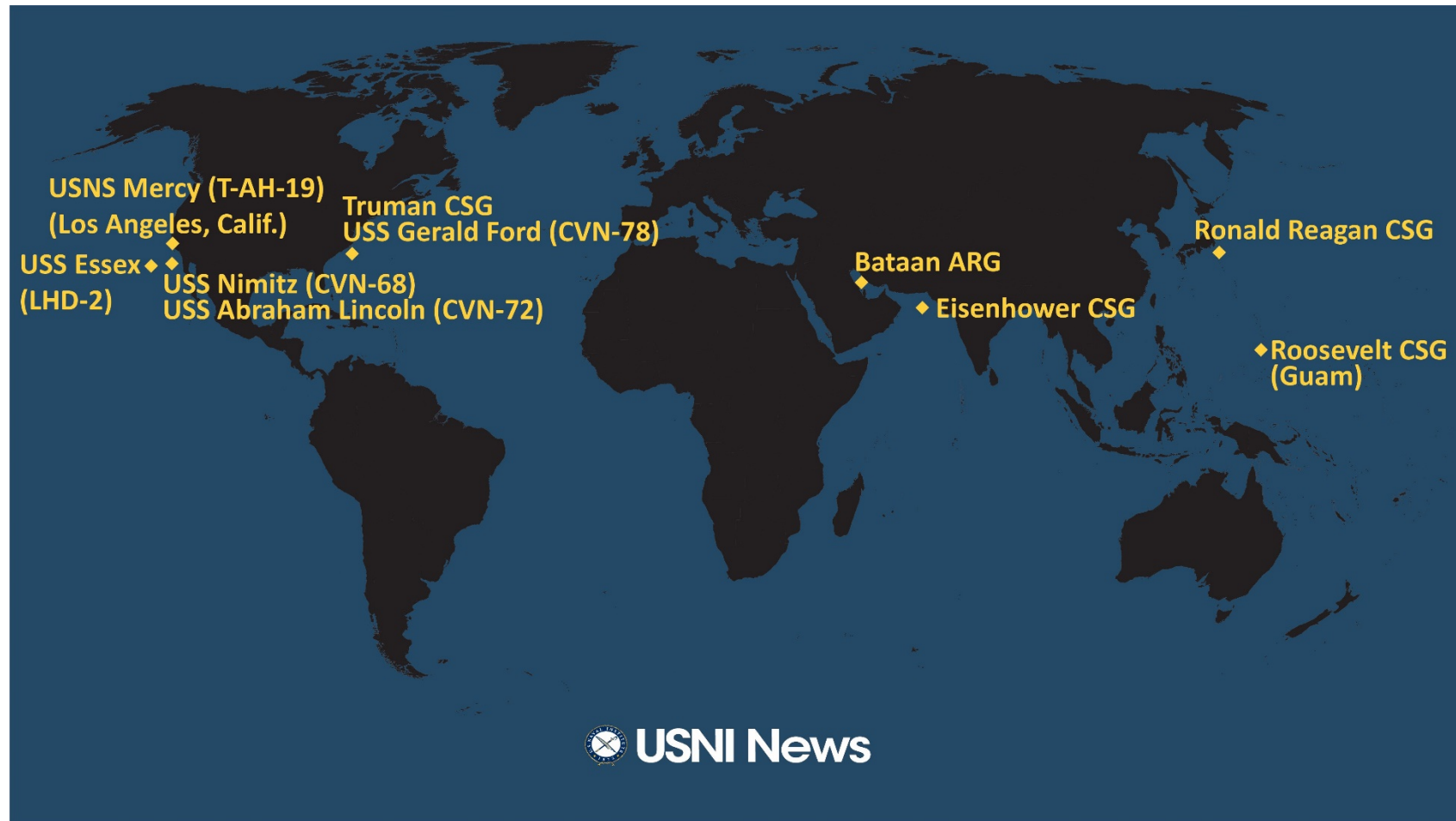
2019 Fleet Exercises



- USS ABRAHAM LINCOLN COMPTUEX
 - USS HARRY S TRUMAN COMPTUEX
 - USS DWIGHT D EISENHOWER TSTA
 - USS BATAAN ARG COMPTUEX
 - 849 training missions
 - 2,427 sorties
 - 158,288 ordnance dropped: 278 Live High Explosive, 1,249 inert, and 156,761 20MM/30MM/50Cal/.62MM
 - HMS QUEEN ELIZABETH WESTLANT 19 – UK F-35 live drops
- ****COMPTUEX – Composite Training Unit Exercise
- ****TSTA – Tailored Ships Training Availability

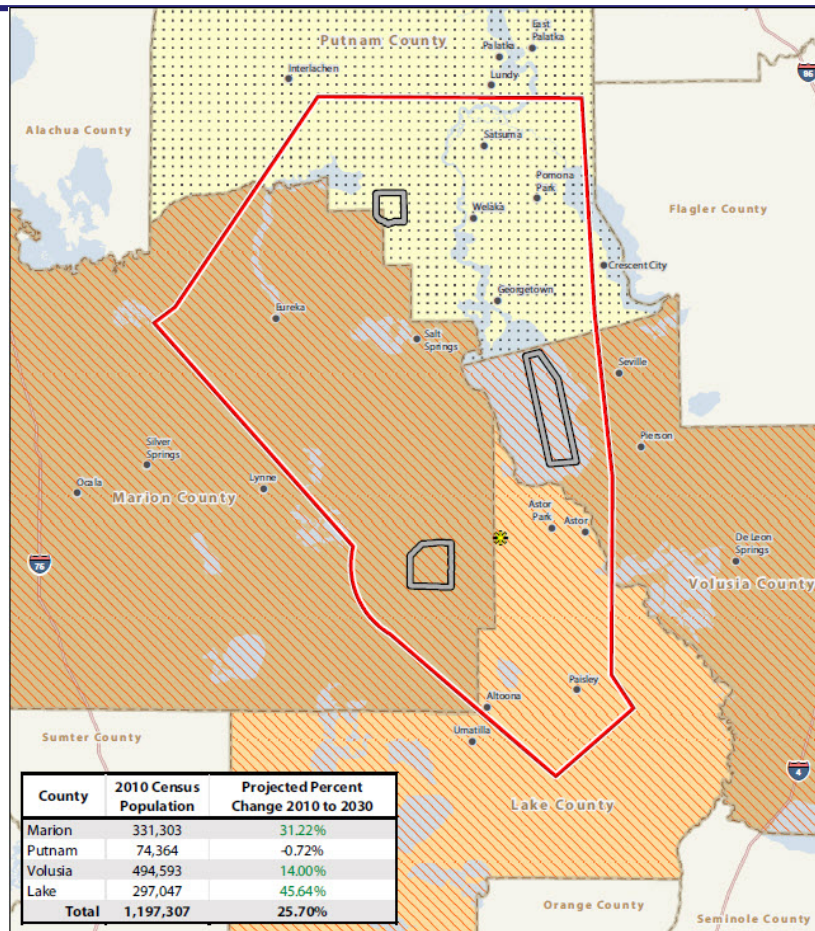


Fleet Tracker

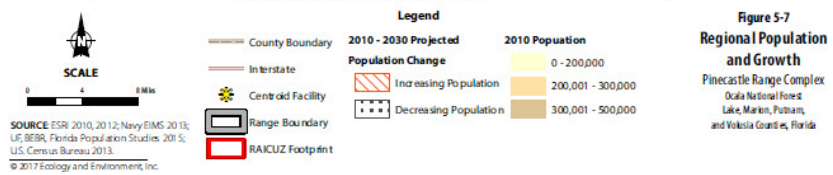




RANGE SUSTAINMENT ENCROACHMENT CONTROL



- Active with CPLO to monitor County Planning and Zoning Board activity.
- Lake, Marion, Volusia and Putman County adopted comprehensive land use restrictions to prevent encroachment.
- Designated Ex-Officio, Non-Voting Military Representative.



SOURCE: ESRI 2010, 2012; Navy EIMS 2013; U.S. BEIR, Florida Population Studies 2013; U.S. Census Bureau 2013.
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QUESTIONS?

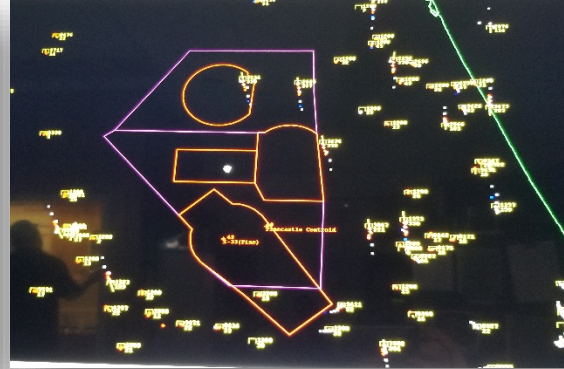




RANGE SYSTEMS



Improved Remote Srafe Scoring System (IRSS).
- High/Low angle targets
- 20-30MM Target Practice (TP).



Radar Acquisition Display (RADS).



MANPADS Integrated Threat Simulator/Stimulator (MITSS) SA-18 FME.



Laser Evaluator System (LES).



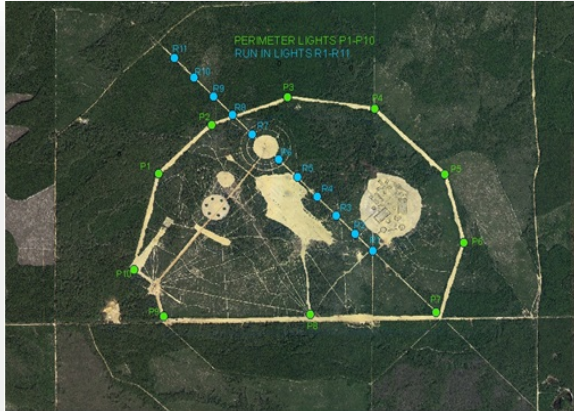
Plotted Ordnance drops on Master Range Map



Plot provided to warfighters after mission.



RANGE SYSTEMS cont.



Range Safety Lighting System (RSLS)



Target Lighting Conventional Day/Night Target



Moving Improved Remote Strafe Scoring System (IRSSS).
- Moving target controlled remotely
- Small arms Sniper/Marksman Qual



Laser Evaluator System - Mobile (LES-M)



Laser Scoring/Evaluator System (LSVRS)



Moving Land Target (MLT)



361 Aircraft in 7 Hours



Hacking for Defense (H4D)



Overview

Hacking for Defense (H4D) is a semester-long course at top-tier research universities that offers the U.S. Department of Defense (DOD) leaders with the opportunity to collaborate with talented student teams to develop innovative solutions to their most pressing national security problems. The course teaches students to apply the Lean Startup methodology to solve real national security problems. Through student teams, the DOD is provided an avenue to connect with problem-solvers from academia, the private sector, and other non-traditional DOD actors.

Student Teams Working on Real-World Defense Problems

In H4D courses, interdisciplinary student teams are provided with real-world national security problems sourced from DOD agencies. Teams are instructed in and apply Lean Startup principles in order to iteratively develop and test potential solutions. (failing fast and failing forward) By the end of the course, student teams will have conducted at least 100 stakeholder interviews and developed a mini viable product (MVP) concept that addresses the needs of their DOD problem sponsor.

From Immersive Learning to Validated Insights

For students, H4D represents an unparalleled opportunity to work on real-world national security problems in close collaboration with DOD personnel and agencies. In addition to offering this unique academic experience, partner universities have received significant publicity from engagement in H4D in top news outlets, including Foreign Policy, Forbes, Wired, Bloomberg, and the Washington Post.

For problem sponsors, involvement in H4D is a force multiplier for their toughest problems. By the end of the course, sponsors will have their problems fully validated and be provided with an MVP that aims to address their needs in addition to gaining exposure to a novel problem-solving framework and creative, outside thinking on their problem topic. In addition, problem sponsors will receive a more refined and curated problem set by the end of the course.

Past government problem topics have come from a range of organizations including the Joint Improvised Threat Defeat Organization (JIDO), U.S. Navy 3rd Fleet, the Army Asymmetric Warfare Group, the Marine Corps Warfighting Laboratory, U.S. Special Operations Command, Army Cyber Command, Air Force Office of Energy Assurance, and the National Security Agency (NSA).

For more information on participating in Hacking for Defense, email h4d@nsin.us.

More About NSIN

The National Security Innovation Network (NSIN) is a program of the U.S. Department of Defense (DoD) that collaborates with major universities and the venture community to develop solutions that drive national security innovation.

We operate three portfolios of programs and services: National Service, Collaboration, and Acceleration. Together, these portfolios form a pipeline of activities and solutions that accelerate the pace of defense innovation.

National Security Innovation Network

Got a tough hardware/software/policy problem your unit needs solved in 2020? Would you like 500 hours of free help from the best and brightest students in the U.S.? Deadline to submit your problem to be worked by NSIN is in two weeks, June 1. [Apply here if you want to be considered.](https://nsin.wufoo.com/forms/h4d-problem-submission/) <https://nsin.wufoo.com/forms/h4d-problem-submission/>

The National Security Innovation Network, a DOD program office within the Defense Innovation Unit, is here to help with **Hacking for Defense (H4D)**. **H4D applies the innovative techniques employed by leading startups to your problems.** We use interdisciplinary teams of talented students--**MBA's, law, engineering, medicine, comp sci, policy**--from **the nation's top research institutions**, putting 500 free student hours against your hardware/software problems to generate prototypes and solutions. **In addition, we have partnered with existing senior capstone design programs to expand out our problem solving to more schools, faster.**

Across the country this past semester **NSIN did dozens of projects**, like helping the Air Force predict part failure, improved the Navy's medical inventory management, assisted Army Rangers in designing new UGVs and created apps to detect radio jamming for JTACs (the course was [featured on NPR](#) and this [great video explains the course](#))

Next semester, we want to help you either through Hacking for Defense or other programs. The courses will be taught at over 20 schools nationwide, including UCF. **If you want help this year, the deadline to apply is June 1st.** [Please click here today to be considered for the elite institutions where H4D is taught.](#)

Or contact Mike Macedonia, mrm@ucf.edu or Tommy Sowers, tsowers@nsin.us , <https://www.nsin.us/hacking-for-defense/>

Military Child Education Coalition



FDA Meeting
September 29, 2020

For the sake of the Child

MCEC Vision: Every military-connected child is college, workforce, and life-ready.

MCEC Mission: To ensure inclusive, quality educational opportunities for all military-connected children affected by mobility, transition, deployments and family separation.

...Serving the children of those who serve us all.

Advancing Our Mission

Advocate – Collaborate – Educate

The outcomes we seek are...

1. **Students thrive** and succeed in our education system and become college, workforce, and life-ready
2. **Parents are empowered** to be informed, proactive supporters, making positive impact in the academic, social, and emotional needs of their children
3. **Education professionals** possess the knowledge to identify, reinforce strengths and **respond** to complex needs of children whose parents serve in our Armed Forces or are Veterans
4. **State and local communities are responsive** in supporting military and veteran-connected children during times of transition, family separation, or trauma
5. **The educational needs are recognized** at a national level and receive appropriate support

Purple Star School Designation Program

- Ask that you consider **advocating for a Purple Star School Designation Program** in Florida.
- The Purple Star School movement is a grassroots effort to **support the many military-connected children who transition into new schools** whenever their active-duty parent receives a relocation order.
- Purple Star programs **certify K-12 schools** as friendly to, and familiar with, the unique education and social-emotional needs of the 1.2 million students who must move every two to three years.
- To date, only **Texas, Tennessee, Virginia, Ohio, Arkansas, South Carolina, North Carolina, Georgia** (called Military Flagship Schools), **Montana and Indiana**, have Purple Star School programs.

Purple Star School Designation Program

- Established by a **state's education authority** or by an **individual school district**.
- May formally create the program **through legislation** or less formally **through administrative procedures** from the state capitol or at the individual school district level.
- Establishes an **application process** inviting state or district-wide K-12 public and/or charter schools to seek designation as a Purple Star School. The **state or district sets the requirements** individual schools must meet for designation.
- There is **no one-size-fits all** for these programs, however, **MCEC recommends** four study-driven requirements. These include requiring that schools:
 - Designate a staff point of contact for military students and families. The individual can be a counselor, administrator, teacher, or other staff member.
 - Establish and maintain a dedicated page on its website featuring information and resources for military families.
 - Maintain a student-led transition program.
 - Provide professional development for additional staff on special considerations for military students and families.
- In addition to these four criteria, **states may choose an additional criterion**.

Why Start a Purple Star School Designation Program

- It will help **protect your bases and state revenue.**
- It will **support the military service members** who make their home in your state while they serve our country.
- It is consistent with your **state's obligation** for helping military-connected children transition into new schools.



Purple Star Schools: Your Questions Answered

PSSDP Virtual Townhall Meeting

Tuesday 6 Oct, 1-3pm CT

RSVP: at this link here,
<https://bit.ly/2FToB8v>.

Event Password is **purple**

- ✓ What is a Purple Star School?
- ✓ How does your state start a Purple Star Program?
- ✓ What are the requirements for a Purple Star School?
- ✓ Why does America need Purple Star Schools?
- ✓ How does a Purple Star School program help meet state obligations?
- ✓ MCEC Purple Star School contact and resources for starting a Purple Star School program.

<https://www.militarychild.org/purplestarschools>



2019 MILITARY FAMILY LIFESTYLE SURVEY

Funding for the 2019 Military Family Lifestyle Survey is provided through the generosity of our presenting sponsor USAA and from supporting sponsors Lockheed Martin Corporation, Craig Newmark Philanthropies, CSX Corporation, Hunt Companies, OptumServe, AARP, BAE Systems, Booz Allen Hamilton, Northrop Grumman Corporation, Walmart, and Army & Air Force Exchange Service.

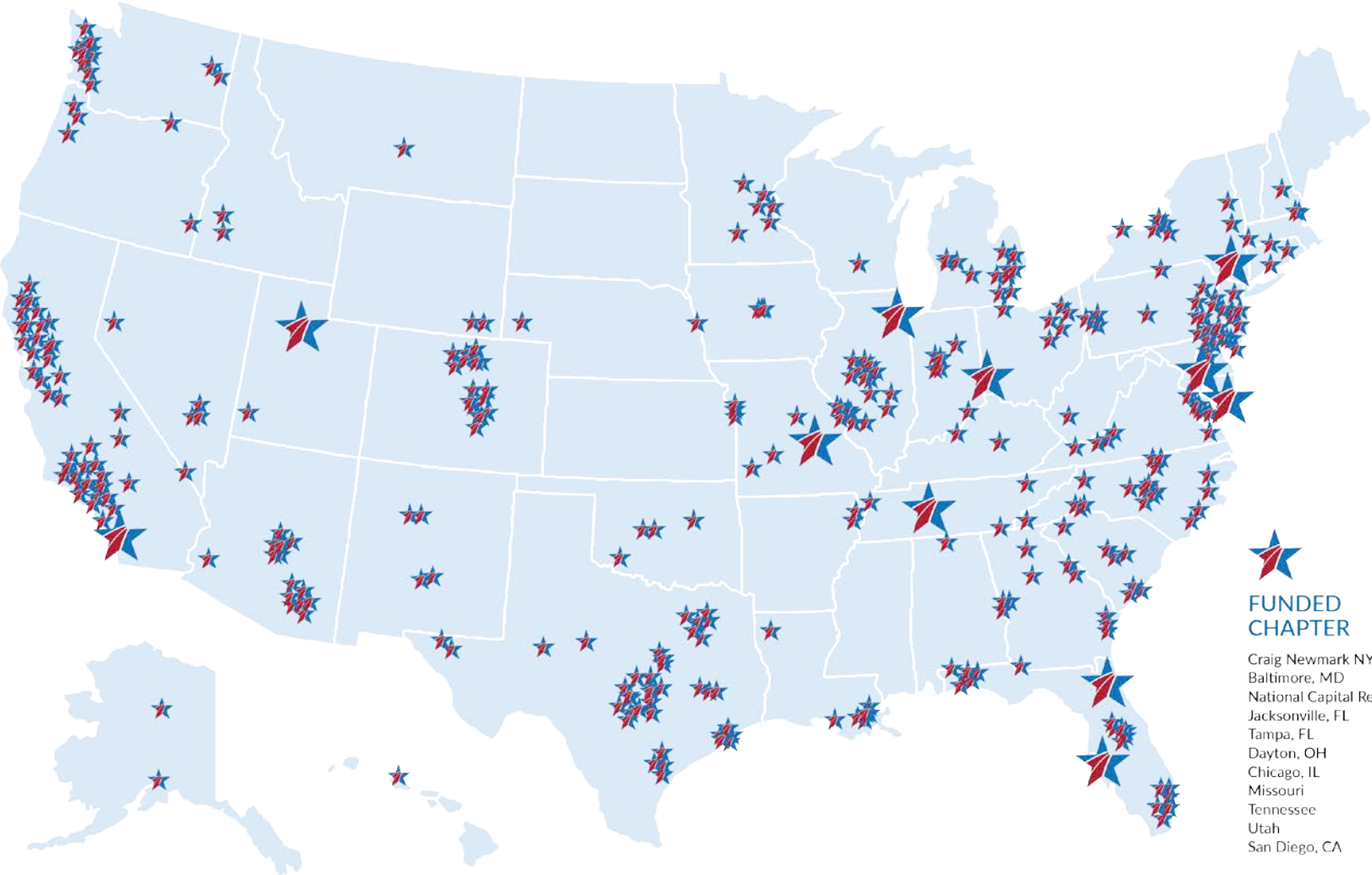




Founded in 2009 by military spouses with you in mind, we empower military families to thrive by connecting them with their civilian neighbors – both people and organizations – to create strong communities of support.

For more information, visit bluestarfam.org

BLUE STAR NATION: BUILDING COMMUNITY-BASED SOLUTIONS



For more information, visit bluestarfam.org

BLUE STAR FAMILIES PROGRAMS AND RESOURCES



Blue Star Connected
Communities



Blue Star Careers
*Spouseforce, Networks Live, Blue
Star Business Council*



Blue Star Books
*START Book Clubs (Serving, Thriving,
and Reading Together)*



Blue Star Museums



Blue Star Parks



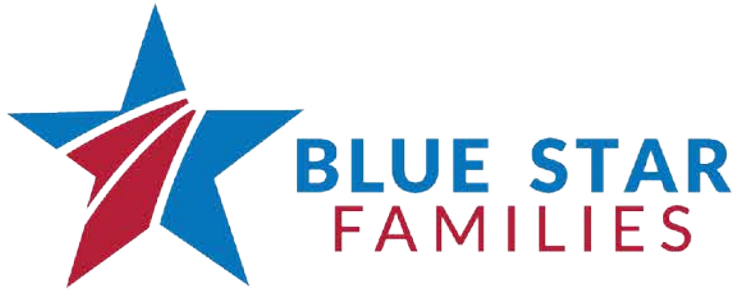
Blue Star Neighbors



Annual Military Family
Lifestyle Survey

For more information, visit bluestarfam.org

TELLING THE STORY



ANNUAL MILITARY FAMILY LIFESTYLE SURVEY

In collaboration with



For more information, visit bluestarfam.org/survey



LISTEN

Our Survey has a proven track record of elevating the voices of those who serve to the leaders and decision makers who can enhance their lives.



SHARE

We lead the field in launching conversations and fostering collaboration among different sectors, organizations, and institutions.



ACT

We translate our Survey's data into action for our military families—from implementing programs to increasing dialogue surrounding various challenges, informing legislative changes, and more.

TOP ISSUES FOR ACTIVE DUTY MILITARY FAMILIES

Time away from family

45%

Military spouse employment

45%

Dependent children's education

42%

Military family stability/quality of life

42%

Lack of control over military career/uncertainty that accompanies military life

35%



For more information, visit bluestarfam.org/survey

TOP STRESSORS FOR ACTIVE DUTY MILITARY FAMILIES

Financial issues/stress 48%

Relocation issues 46%

Isolation from family/friends 43%

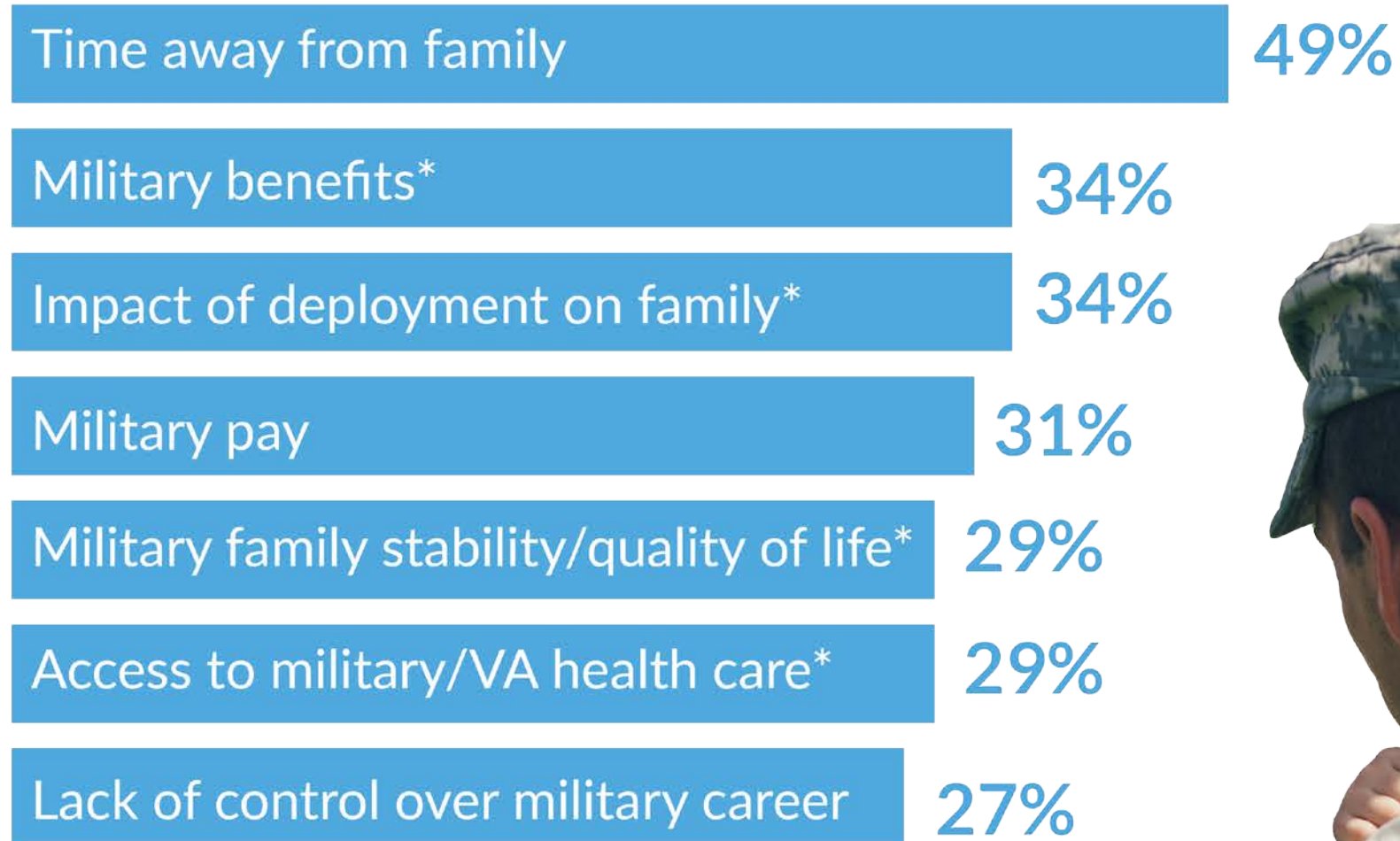
Deployments 37%

My/my civilian spouse's employment challenges/inability of our family to reliably earn two incomes 34%

For more information, visit bluestarfam.org/survey



TOP ISSUES FOR NATIONAL GUARD FAMILIES



*Tied

For more information, visit bluestarfam.org/survey



TOP ISSUES FOR RESERVE FAMILIES



For more information, visit bluestarfam.org/survey

NATIONAL GUARD & RESERVE FAMILY CONCERNS



*of National
Guard families*



*of Reserve
families*

feel local civilian support agencies aren't effectively addressing their needs

For more information, visit bluestarfam.org/survey

SUPPORTING THE MILITARY FAMILY ACROSS FAMILY SEPARATIONS



**39% 6+ months
of separation in
last 18 months**



find friends most helpful
during separation



no one in local community
to talk to



no one to ask for a favor

For more information, visit bluestarfam.org/survey

LIMITED UNDERSTANDING AND AWARENESS

8%

feel the general public *understands* their sacrifices; 7% have no opinion

12%

feel the general public *is aware of* the challenges that military service places on families; 7% have no opinion

Questions were asked differently in 2018

For more information, visit bluestarfam.org/survey



SENSE OF BELONGING IN LOCAL COMMUNITIES



do not feel a sense of belonging to their local civilian community

Increased perceived **military family lifestyle cultural competency** in the community



Increased **sense of belonging** in the community

For more information, visit bluestarfam.org/survey

“I feel like there is indifference in my civilian community and see opportunity for growth in providing education and resources for community leaders in accommodating, accepting, and assimilating military connected families into their community.”

– Marine Corps Spouse

SERVICE MEMBER OPERATIONAL TEMPO IMPACTS THE WHOLE FAMILY



68%

feel the current OPTEMPO exerts an
unacceptable level of stress

Families with orders **2 months or less** in advance of their move had significantly less belonging to local community than families with more notice

Top barrier to employment for military spouses: service member's **day-to-day** job demands

For more information, visit bluestarfam.org/survey

SPOUSE EMPLOYMENT BARRIERS DIFFER WHEN CHILDREN ARE PRESENT

24%

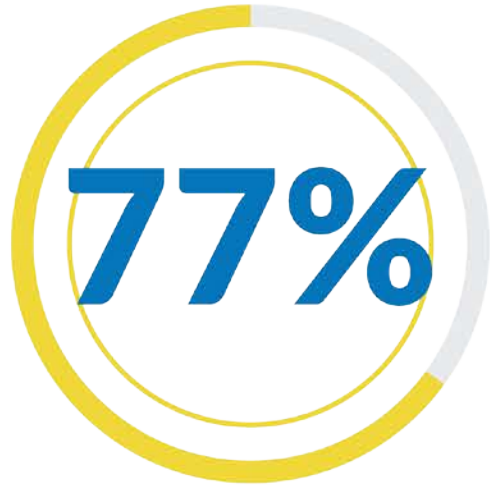
of military spouses are unemployed (in labor force and actively seeking work in the past 4 weeks)

TOP REASONS FOR UNEMPLOYMENT AMONG MILITARY SPOUSES SHIFTS WITH PRESENCE OF CHILDREN IN THE HOME

	Unemployed Spouses With Children	Unemployed Spouses Without Children
1	51% Service member's day-to-day job demands make it too difficult	52% Overqualified for positions in my local area
2	44% Childcare is too expensive	40% I am recovering from a PCS move
3	35% Overqualified for positions in my local area	25% Service member's day-to-day job demands make it too difficult

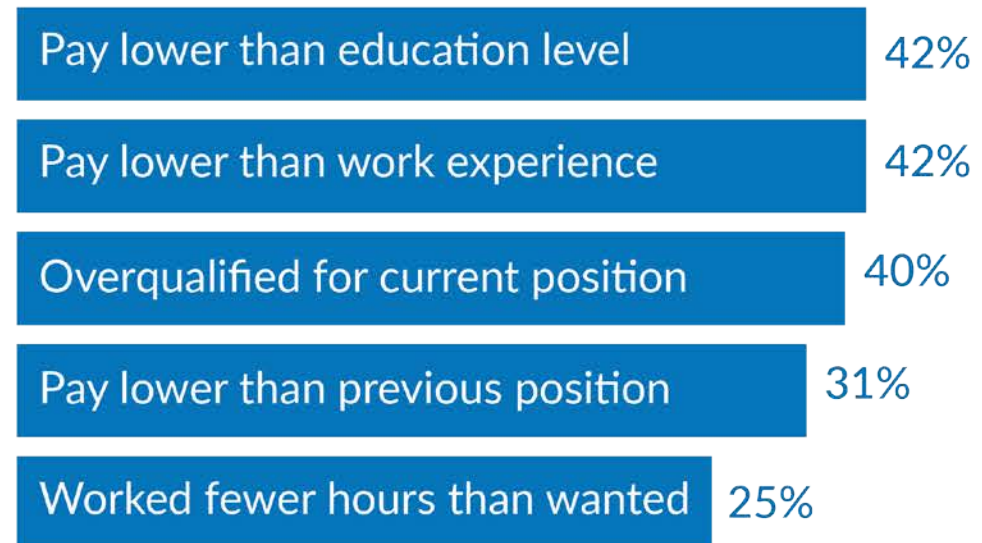
For more information, visit bluestarfam.org/survey

MILITARY SPOUSE UNDEREMPLOYMENT



of employed military spouses
are underemployed

Underemployment Circumstances



For more information, visit bluestarfam.org/survey

HIRING INITIATIVES MAY NOT SPEAK TO MILITARY SPOUSES AS THEY DO TO VETERANS

	Military Spouses	Veterans
Felt employers in their local area were not eager to hire military-affiliated individuals	40%	23%
Believed that employers in the local community would not accommodate the needs of military-affiliated employees	35%	22%

Military spouses want flexible work = flexible scheduling, remote/telework

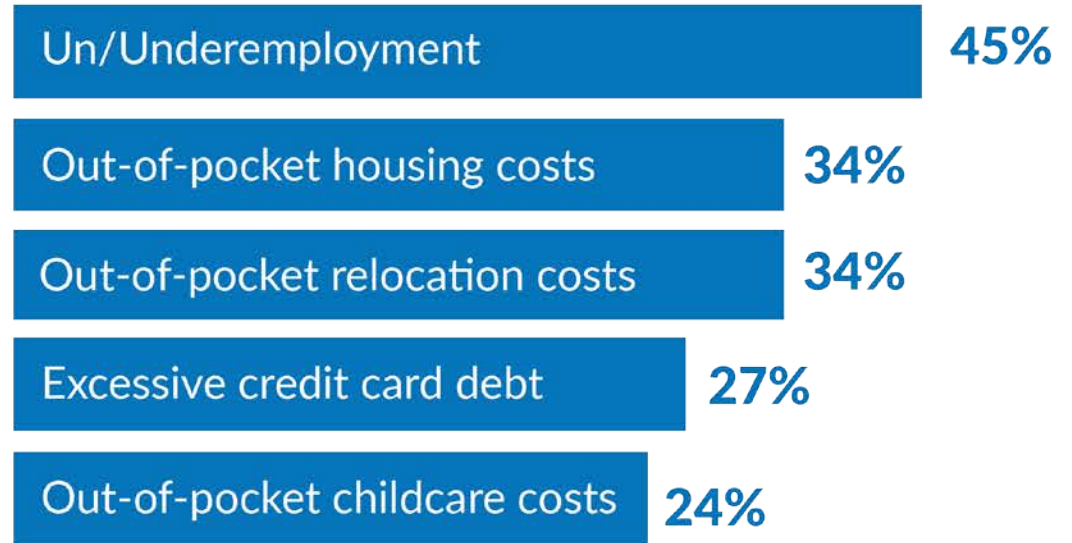
For more information, visit bluestarfam.org/survey

FINANCIAL STRESS



experience stress due to current financial situation

TOP CONTRIBUTORS TO CURRENT FINANCIAL STRESS



For more information, visit bluestarfam.org/survey

CHILDCARE AFFORDABILITY IS A BARRIER FOR SERVICE MEMBERS



of **female**
service
members



of **male**
service
members

feel lack of childcare impacted their pursuit of education/employment

AFFORDABILITY OF CHILDCARE ISN'T JUST A FEMALE SERVICE MEMBER ISSUE

Top Reasons Childcare Problems Moderately to Completely Impact Service Members' Pursuit of Education/Employment		
Male Service Members	52% Difficulty Finding an Affordable Provider	35% Limited Childcare Availability
Female Service Members	48% Hours of Operation	46% Difficulty Finding an Affordable Provider

For more information, visit bluestarfam.org/survey

RELOCATION IS CHALLENGING FOR FAMILIES ENROLLED IN EXCEPTIONAL FAMILY MEMBER PROGRAM (EFMP)

40%

cannot receive a referral
and see a specialist in a
reasonable amount of time
after a relocation

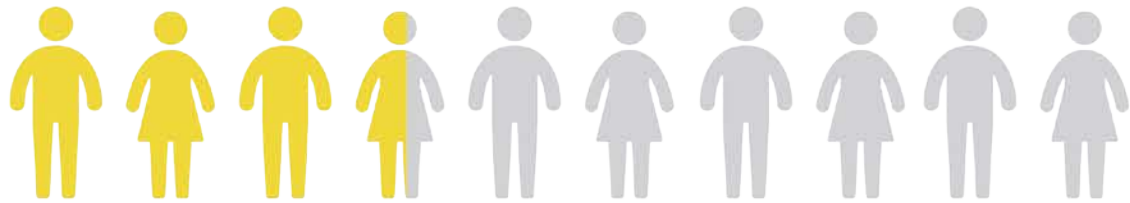
In an open-ended question,
***9% bypassed the system
or went without treatment***
due to difficulties in
obtaining referrals

For more information, visit bluestarfam.org/survey

*“We PCSed here due to EFMP
reassignment and had to wait months
to get the care we were sent here for.”*

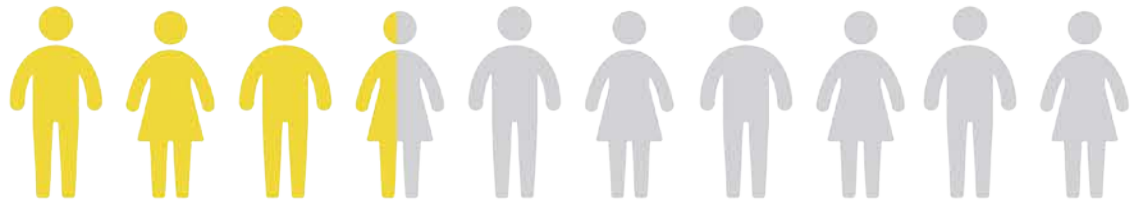
- Air Force Spouse

FAMILIES OF CHILDREN WITH SPECIAL NEEDS DON'T HAVE RESOURCES THEY NEED



36%

say community does not have all the **resources** their family needs



34%

cannot find **childcare** that meets their needs

For more information, visit bluestarfam.org/survey

“I [...] have a special needs child and my community was not equipped to deal while I was full-time employed and a single parent while my [service] member has been absent.”

– Air Force Spouse

MILITARY FAMILIES ACT TO CREATE STABILITY FOR CHILDREN'S EDUCATION



are homeschooling

Of those who lived apart in the last five years,



lived apart due to **child's education**

For more information, visit bluestarfam.org/survey

SCHOOLS: BUILDING A SENSE OF BELONGING FOR MILITARY FAMILIES AND CHILDREN



of families with oldest child eligible for K-12 experienced 2+ school transitions due to a military move



believe their child has a strong sense of belonging to the school

Opportunities to improve: (1) course and program placement, (2) welcoming practices, and (3) extracurricular participation within and outside of the Interstate Compact

Top training for schools: understanding impact of frequent moves on children

TRANSITIONING REMAINS DIFFICULT FOR VETERANS, HAS LONG-TERM IMPACTS

56%

feel transition was
difficult or very
difficult

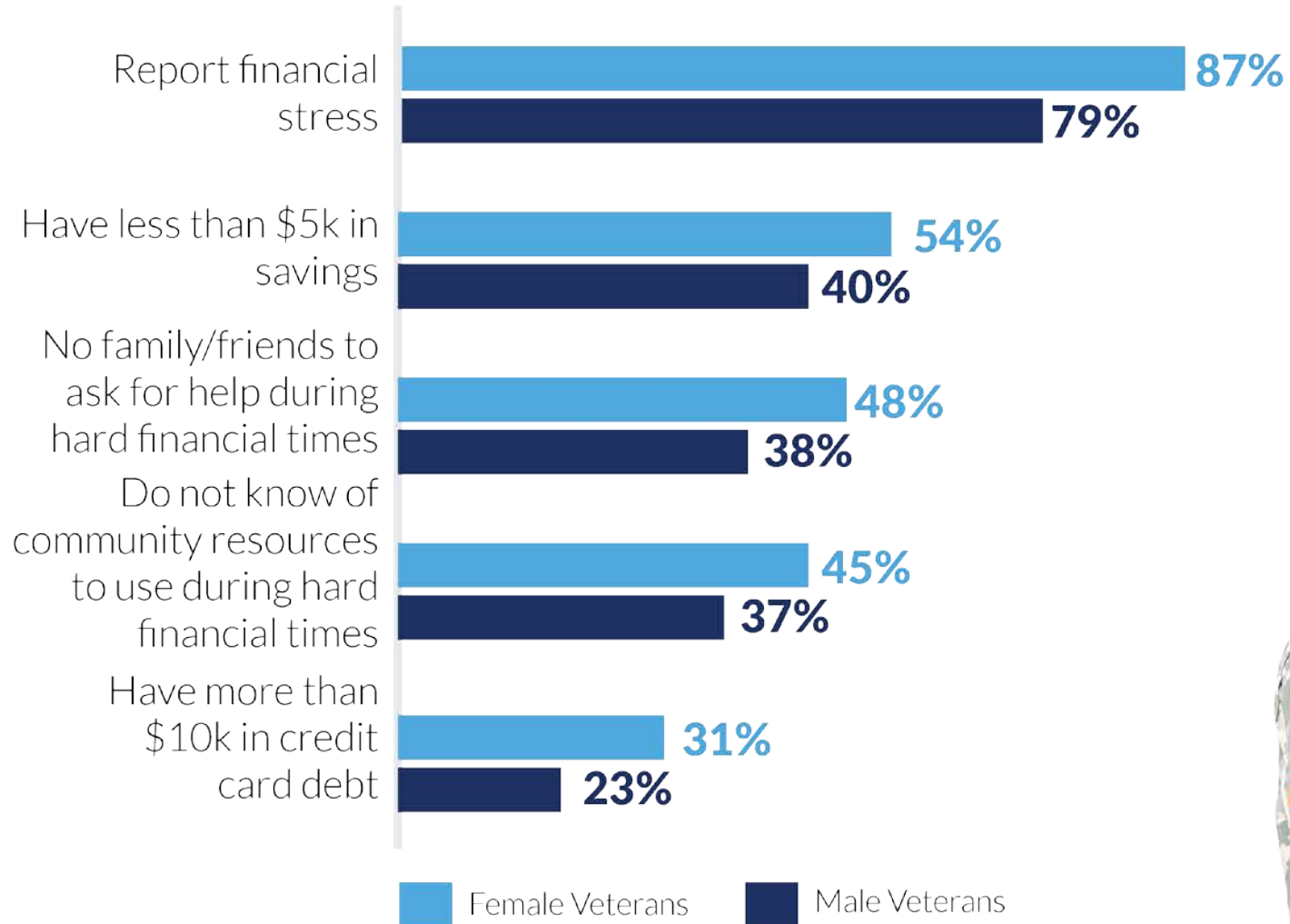
42%

feel they are not well
prepared to navigate
transition

Social isolation is **highest** in those who felt unprepared for transition and those who had a difficult transition

For more information, visit bluestarfam.org/survey

TRANSITIONING IS HARDER FOR FEMALE VETERANS



For more information, visit bluestarfam.org/survey

“Women veterans have different challenges in the civilian community. Many of them go unrecognized in their status as veterans or if they are married to a male veteran, he gets the recognition and they are ignored [...] Looking into how the military and civilian community can better identify and support female veterans would be meaningful.”

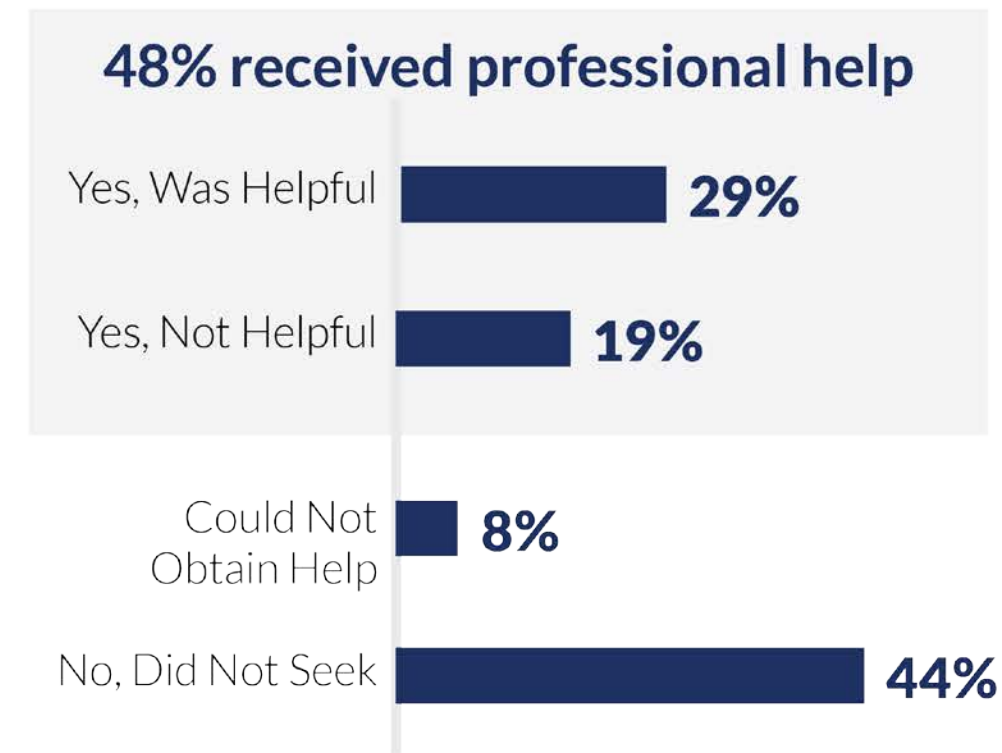
- Female Navy Veteran

MENTAL HEALTH TREATMENT AFTER SUICIDAL THOUGHTS OR ATTEMPTS



active-duty, National Guard and Reserve families who experienced suicidal thoughts/attempts didn't seek help due to fear of harming service member's career

HELP-SEEKING AMONG MILITARY, VETERAN, NATIONAL GUARD, AND RESERVE FAMILIES WHO HAD SERIOUSLY CONSIDERED SUICIDE/HAD ATTEMPTED SUICIDE WITHIN THE PAST YEAR



For more information, visit bluestarfam.org/survey

SUPPORT FROM MILITARY LEADERSHIP



Military leaders at all levels can continue to

- work to build trust
- increase career control
- create predictability
- refine processes

...to improve outcomes for all military family members.

For more information, visit bluestarfam.org/survey

ENGAGEMENT IN LOCAL CIVILIAN COMMUNITIES



have participated in
a local group in their
civilian community
in the past year



feel most people in their
local civilian community
are willing to help each
other

For more information, visit bluestarfam.org/survey





Connect with us.

bluestarfam.org

bluestarfam.org/survey

Facebook: @BlueStarFamilies

Twitter: @BlueStarFamily

Six-Month Engagement Plan

	FDSTF	FDA	Mission Sustain	Family Support
October 2020	15 th – Thur	--	22 nd – Thur	29 th – Thur
November 2020	19 th – Thur	18 th – Wed	5 th – Thur / 18 th	18 th
December 2020	--	--	3 rd – Thur	--
January 2021	21 st – Thur (Panama City)	--	14 th – Thur	28 th – Thur
February 2021	18 th – Thur	TBD	TBD	TBD
March 2021	18 th – Thur (Tallahassee)	17 th – Wed	17 th – Wed	17 th – Wed

Red – Virtual Session

Green – In-person Session

Regional Coordination Calls Sep – Oct

Mission Sustainment WG

- 9:00 – 9:10 Resilience Introduction/Overview
- 9:10 – 9:30 Guest Speaker: Regional Resilience Approaches & Opportunities for Military-Community Engagement
 - Rod Braun, Manager for Climate and Coastal Resiliency - The Nature Conservancy; SE Florida Regional Climate Change Compact
- 9:30 – 10:00 Round-Table Discussion with Q&A
- 10:00 – 10:15 Update/Review Post-Election Engagement Strategy
- 10:15 – 10:30 Update/Review of Gulf Range Protection Way-Forward
- 10:30 Adjourn

Resilience Defined

FY19 NDAA

Military installation resilience is defined as:

the capability of a military installation to avoid, prepare for, minimize the effect of, adapt to, and recover from extreme weather events, or from anticipated or unanticipated changes in environmental conditions, that do, or have the potential to, adversely affect the military installation or essential transportation, logistical, or other necessary resources outside of the military installation that are necessary in order to maintain, improve, or rapidly reestablish installation mission assurance and mission-essential functions.

DoD & Congressional Direction Increasingly Points to Resilience

A FEW HIGHLIGHTS...

• FY18 NDAA

- Recognition of climate change problem
- Directed to identify *Top-10* challenged sites

• 2018 DoD Installation Climate Risk Report

- > 50% of DoD installations at-risk
- Highlighted multiple environmental risk factors

• FY19 NDAA

- Resilience formally includes climate changes
- Climate change in UFC
- Floodplain requirements
- Installation Master Plan changes
- Various new spending authorities to support

• 2019 DoD Climate Change Report

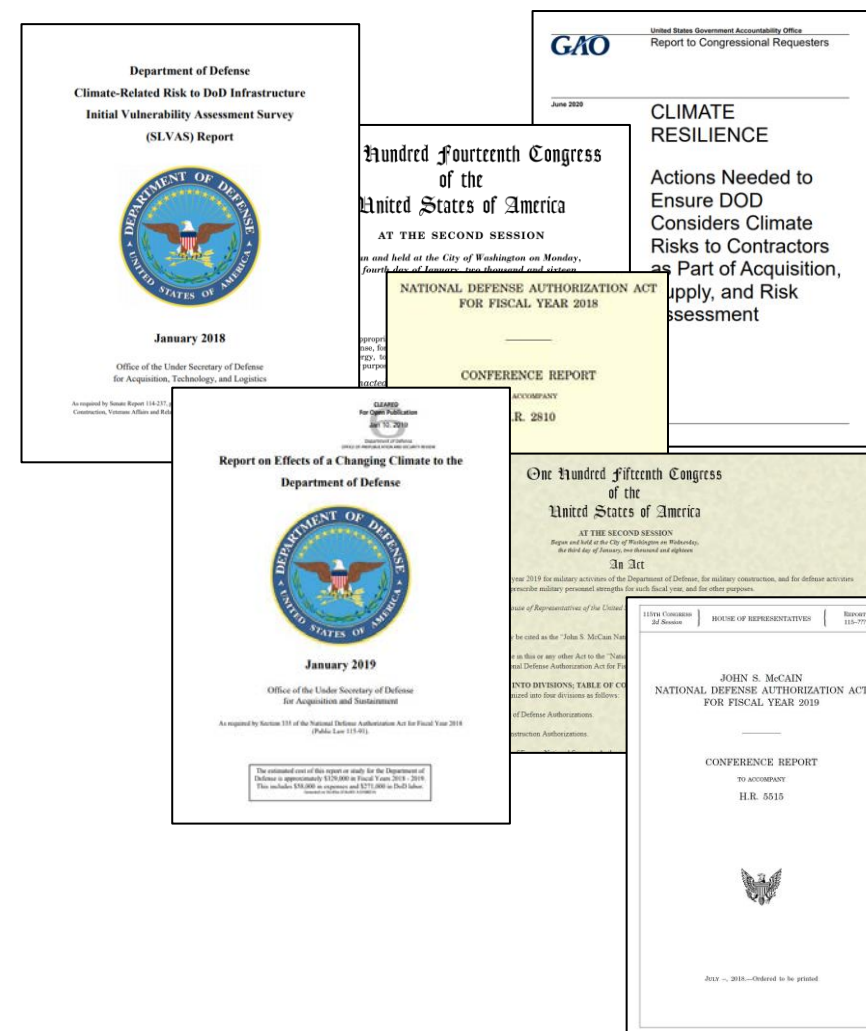
- Florida & South Florida installations are high risk
- Highlighted benefits of regional collaboration

• FY20 NDAA

- Directs installation resilience plans
- Improved building codes (UFC)
- Floodplain / sea-level rise linkage and restrictions
- Increased funding authorities

• FY21 NDAA

- Update climate change adaptation roadmap
- Improve installation water management
- Perform USCG vulnerability assessment
- COCOM installation climate risk assessment
- Increased funding authorities



Key Florida Installations in Resilience “Cross-Hairs”



OSD Report - USA

1. Fort Hood, TX
2. **SOUTHCOM/USAG-M, FL**
3. MOTCO, CA
4. NGIC, VA
5. Camp Roberts, CA
6. Reagan Ops Center, AL
7. Pine Bluff Arsenal, AR
8. Fort Gordon, GA
9. Fort Shafter, HI
10. Fort Detrick, MD

OSD Report - USN

1. **NAS Key West, FL**
2. NSB Kings Bay, GA
3. NB, Guam
4. JB Pearl Harbor, HI
5. Wahiawa Annex, HI
6. NAVMAG Indian Id, WA
7. NB Coronado, CA
8. NB San Diego, CA
9. JB Anacostia, DC
10. Washington Navy YD, DC

OSD Report - USAF

1. Hill AFB, UT
2. Beale AFB, CA
3. Vandenberg AFB, CA
4. Greeley ANG Station, CO
5. **Eglin AFB, FL**
6. **Patrick AFB, FL**
7. JB Andrews, MD
8. Malmstrom AFB, MT
9. Tinker AFB, OK
10. Shaw AFB, SC

U.S. Air Force List

1. Vandenberg AFB, CA
2. **Eglin AFB, FL**
3. **Hurlburt Field, FL**
4. **Patrick AFB, FL**
5. JB Charleston, SC
6. Dover AFB, DE
7. **Homestead ARB, FL**
8. **MacDill AFB, FL**
9. **Tyndall AFB, FL**
10. JB Langley-Eustis, VA

USMC

Support Facility Blount Island, FL

Key Florida Installations in Resilience “Cross-Hairs”



OSD Report - USA

1. Fort Hood, TX
2. **SOUTHCOM/USAG-M, FL**
3. MOTCO, CA
4. NGIC, VA
5. Camp Roberts, CA
6. Reagan Ops Center, AL
7. Pine Bluff Arsenal, AR
8. Fort Gordon, GA
9. Fort Shafter, HI
10. Fort Detrick, MD

OSD Report - USN

1. **NAS Key West, FL**
2. NSB Kings Bay, GA
3. NB, Guam
4. JB Pearl Harbor, HI
5. Wahiawa Annex, HI
6. NAVMAG Indian Id, WA
7. NB Coronado, CA
8. NB San Diego, CA
9. JB Anacostia, DC
10. Washington Navy YD, DC

OSD Report - USAF

1. Hill AFB, UT
2. Beale AFB, CA
3. Vandenberg AFB, CA
4. Greeley ANG Station, CO
5. **Eglin AFB, FL**
6. **Patrick AFB, FL**
7. JB Andrews, MD
8. Malmstrom AFB, MT
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1. **Support Facility Blount Island, FL**

Sea-Level Rise

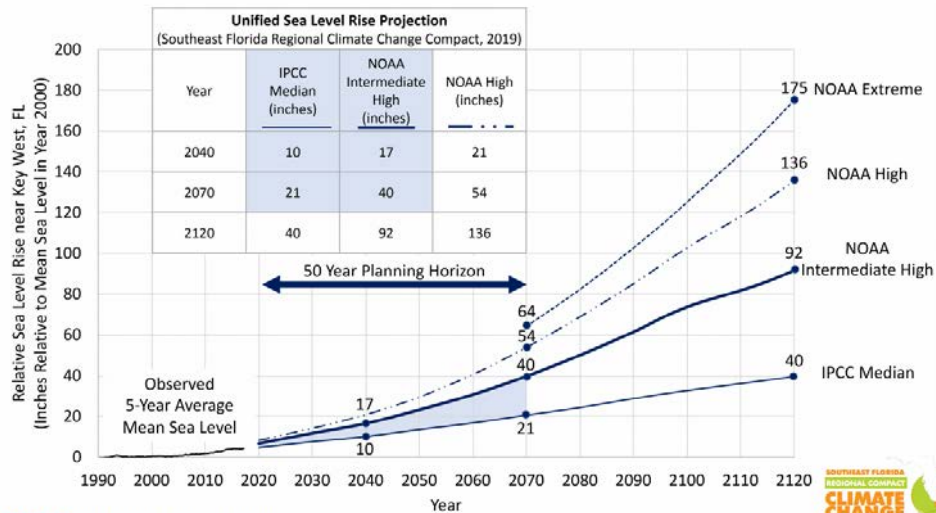


FIGURE 1: Unified Sea Level Rise Projection

Think

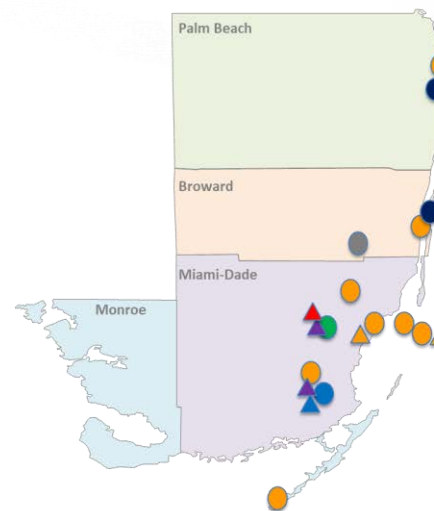
The New

Encroachment...

Regional Approach

SOUTHEAST FLORIDA
REGIONAL COMPACT

CLIMATE
CHANGE



DISCUSSION TOPICS

- **Engagement**
 - Federal / State / Local officials
 - Staff!!!
 - Local Issues + State-wide core themes

- **Gulf Range Protection Legislative Way-ahead Discussion**



Florida Climate Collaboratives and Nature-Based Solutions

Rod Braun
Climate & Coastal Resilience Program Manager, Florida

November 5, 2020

Our **mission** is to protect the lands and waters on which all life depends.



Who We Are



GLOBAL REACH

The largest conservation non-profit in the world



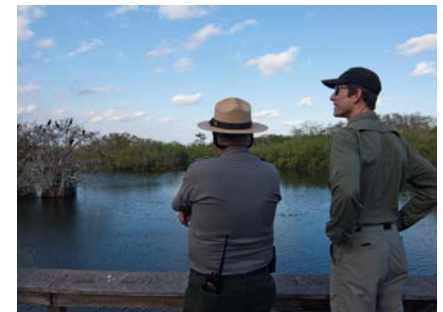
PLACE BASED

At work across the U.S. and 79 countries



SCIENCE BASED

Home to more than 600 scientists



RELATIONSHIP BASED

Powered by our partners, 1,350 trustees, and over one million members



Florida: Since 1961
100,000+ supporters
Protected more than 1.3
million acres
Manage roughly 55,000
acres across Florida

OUR CLIMATE GOALS



Limit global warming to below 2°C



Strengthen resilience to climate change impacts

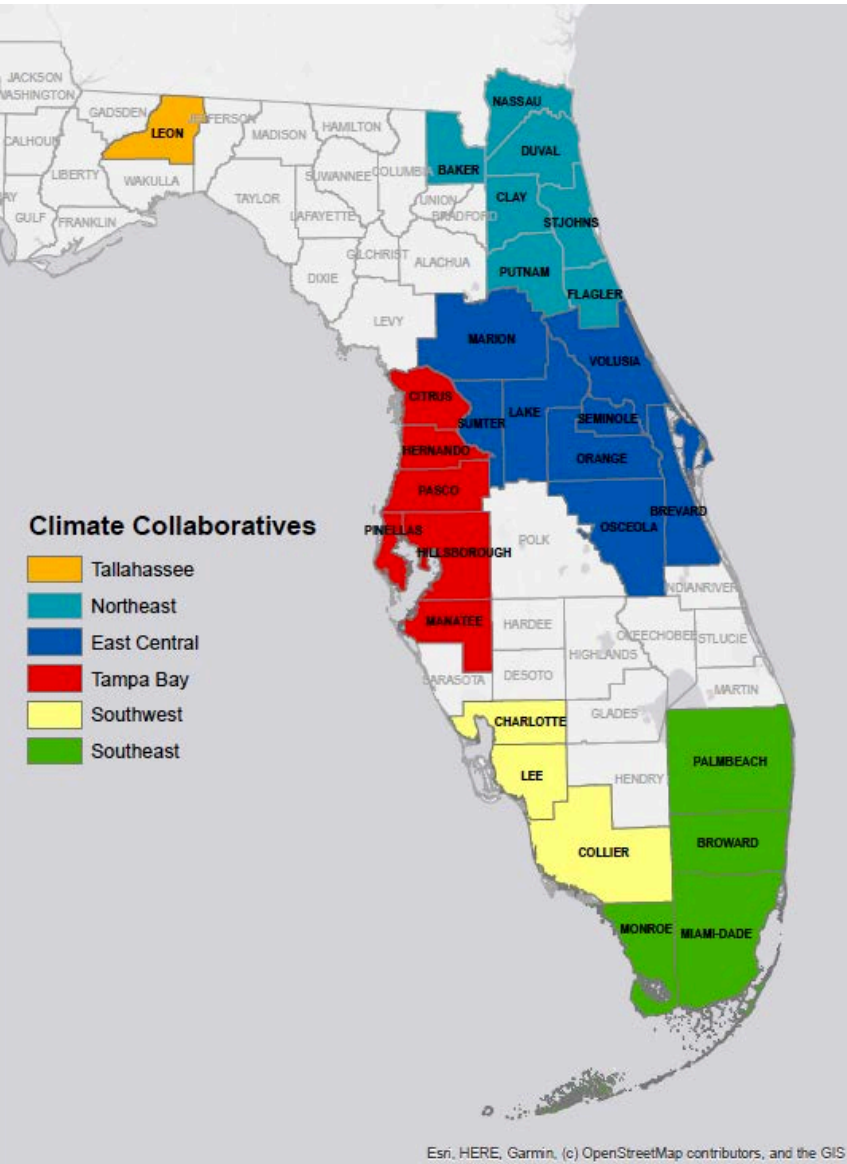


Photo: NY Times

CLIMATE & RESILIENCE COLLABORATIVES

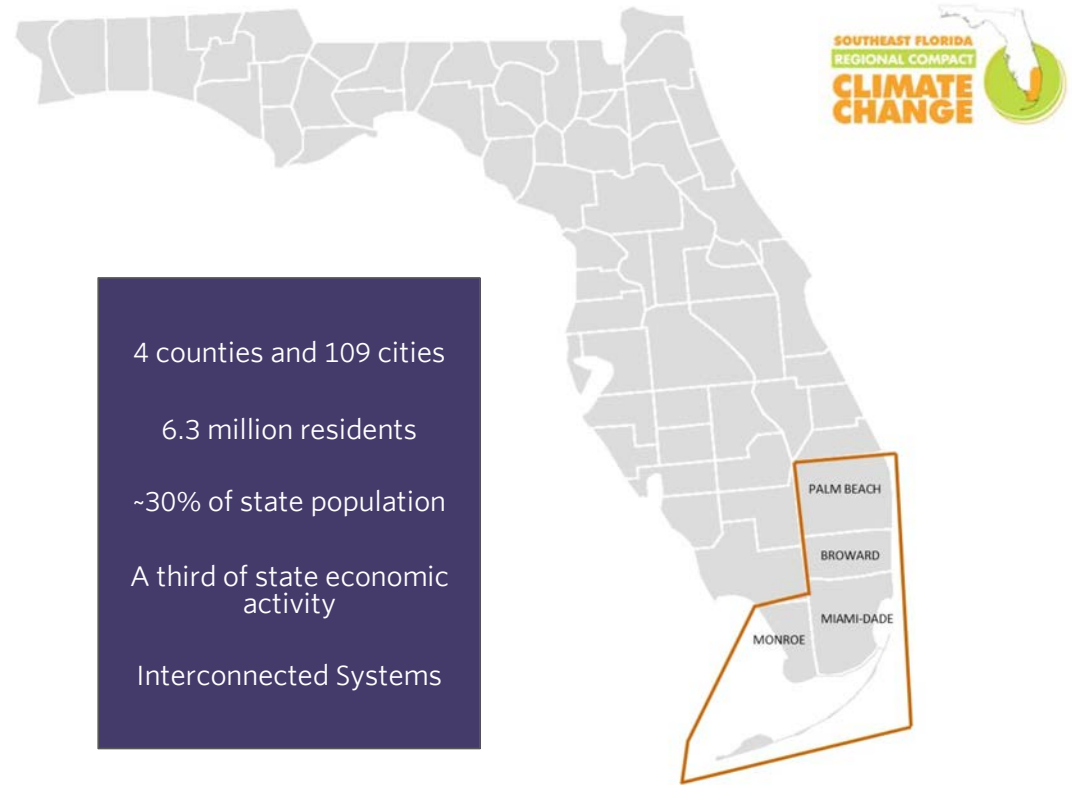
Six regional collaboratives

- SE FL Regional Climate Compact
- Tampa Bay Regional Resiliency Coalition
- East Central FL Regional Resilience Collaborative
- Public/Private Regional Resiliency (P2R2) Committee
- Capital Area Sustainability Compact
- SW FL Regional Resiliency Compact
- 17.7 million people (82%)



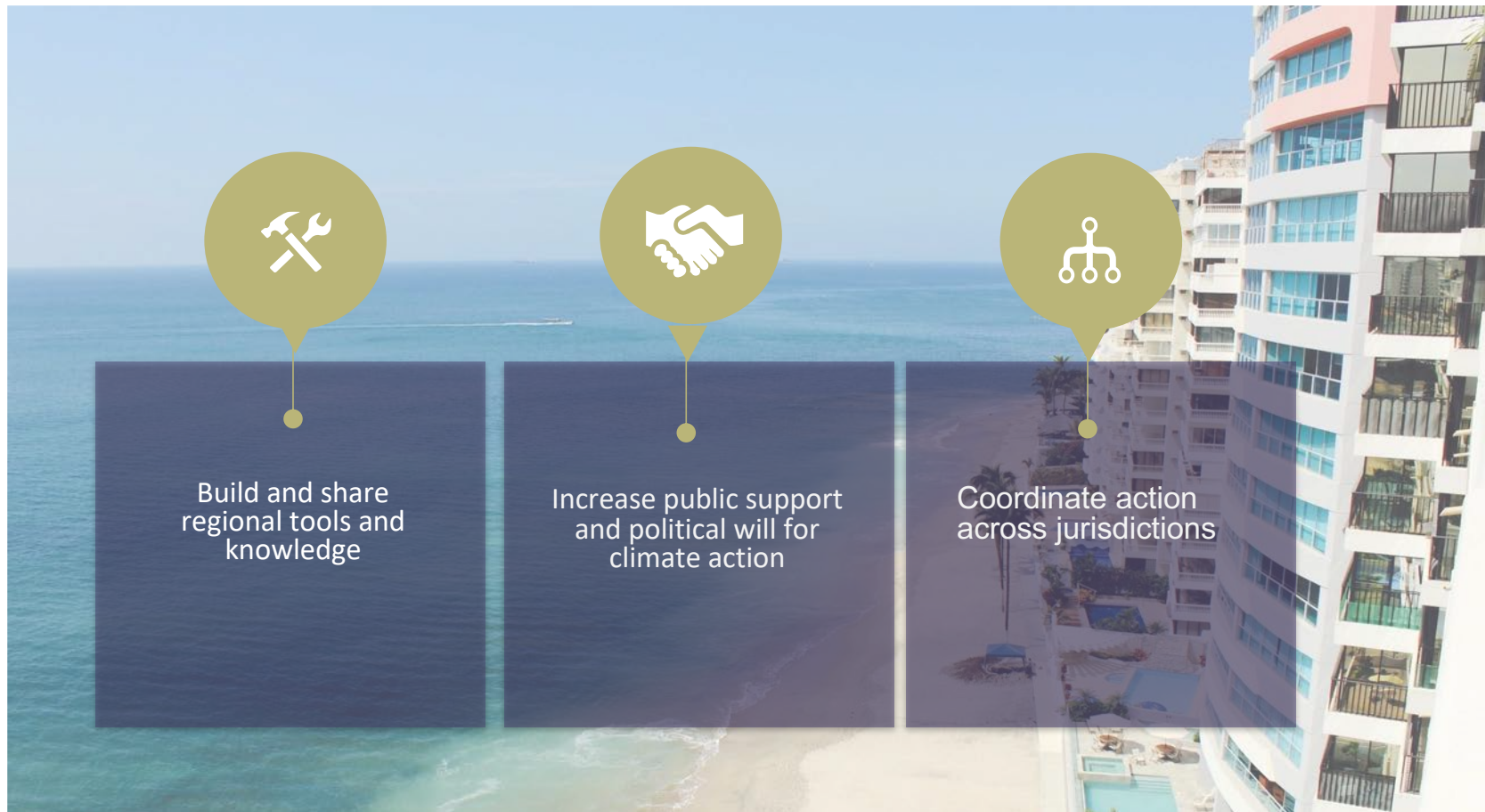
Southeast FL Regional Climate Change Compact

- Regional collaboration allows local government to address climate impacts and solutions at scales beyond its boundaries
- Voluntary response to shared challenges, needs and opportunities
- Climate Compact fully ratified January 2010



www.southeastfloridaclimatecompact.org

Compact Objectives



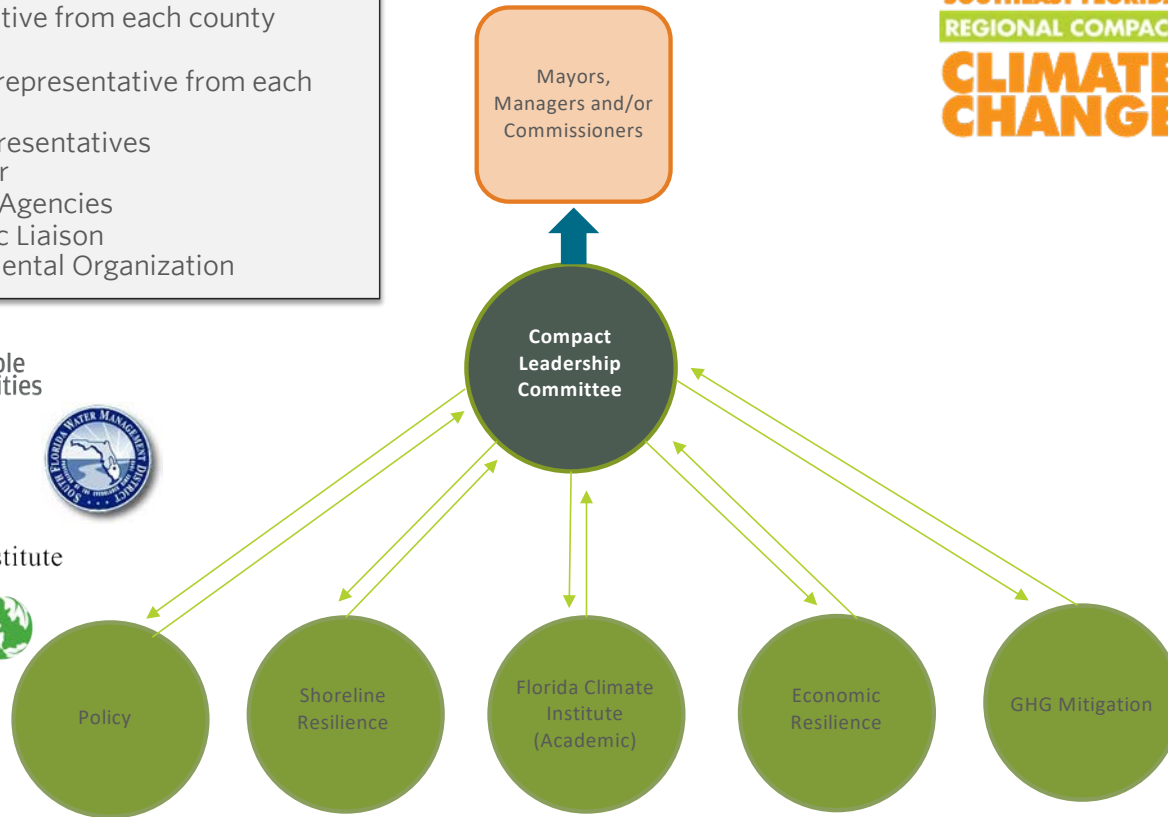
Compact Commitments

- Collaborate on joint policy development
- Develop regional tools
 - ✓ Unified SLR projection
 - ✓ Inundation maps
 - ✓ GHG emissions inventory and baseline
- Create Regional Climate Action Plan
 - ✓ Inclusive of both mitigation and adaptation strategies
- Convene annual Climate Leadership Summits



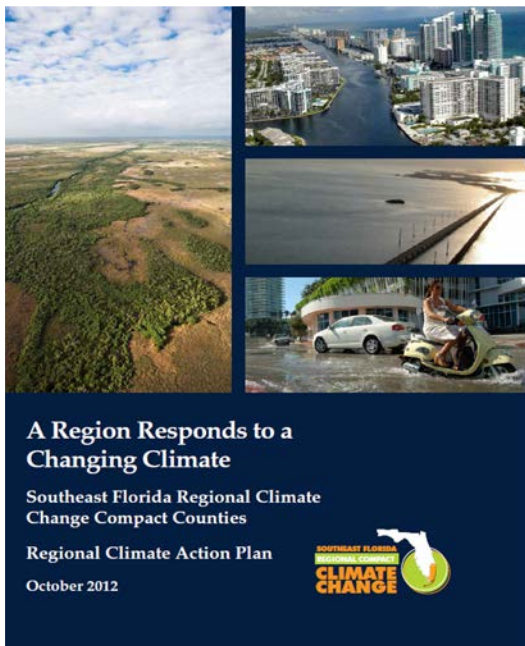
Compact Leadership Committee

- One representative from each county government
- One municipal representative from each county
- Non-voting representatives
 - Facilitator
 - Regional Agencies
 - Academic Liaison
 - Environmental Organization



Compact Work Groups

Regional Compact Outcomes



- Unified Regional Sea Level Rise Projections (2011, 2015, 2019)
- Regional Climate Action Plan (2012, 2017)
- Regional Greenhouse Gas Inventory (2011, 2018)
- Regional Vulnerability Assessment (2011)
- Adaptation Action Area Legislation (2011)
- Health Impact Assessment (2014)
- Engagement of key stakeholders, i.e. the regional Economic Development organizations (2017)
- The Business Case for Resilience in Southeast Florida (2020)

Unified Sea Level Rise Projection Southeast Florida: 2019 Update

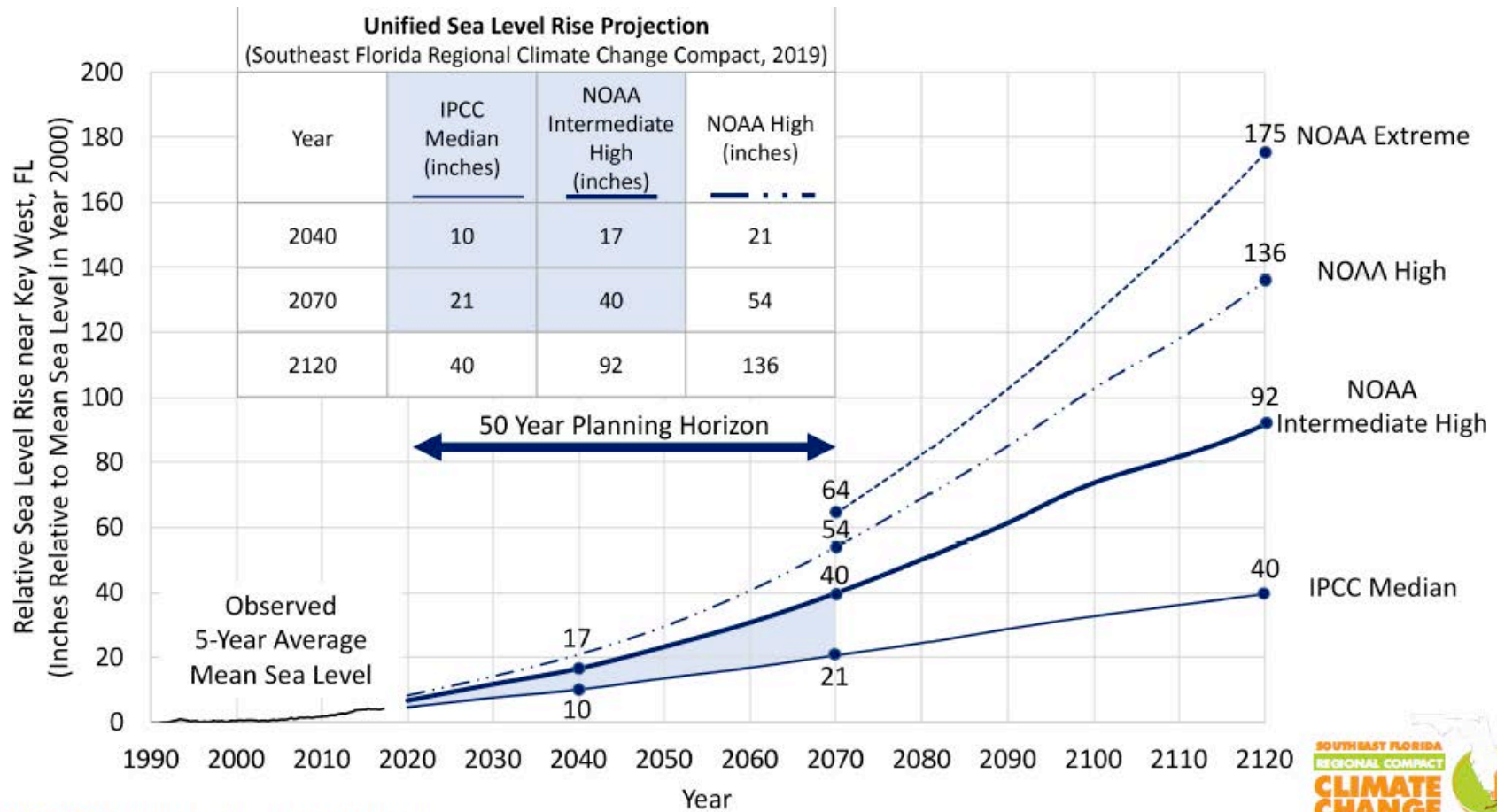


FIGURE 1: Unified Sea Level Rise Projection

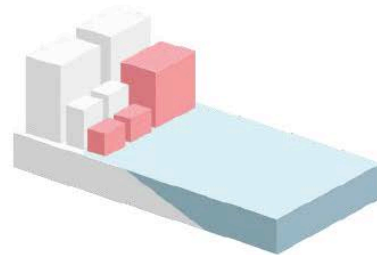
The Business Case for Resilience in Southeast Florida

- ULI coordinated with the Southeast Florida Regional Climate Change Compact to conduct a new regional analysis examining the economic impacts of sea level rise and flooding, and economic opportunities associated with investments in resilient infrastructure.
- Led by the Southeast Florida Business Community in partnership with the four counties.
- What is the business case for adapting to sea level rise and more frequent flooding?

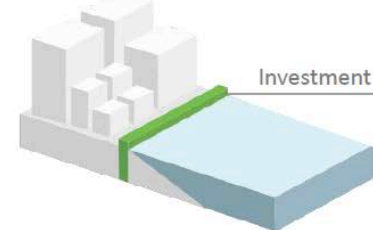
Understanding Flood Events and Adaptation

Examined: Daily Tide, 1-Year Tide (King Tide), and 10-Year Storm Tide

Daily Tide 2040
No action



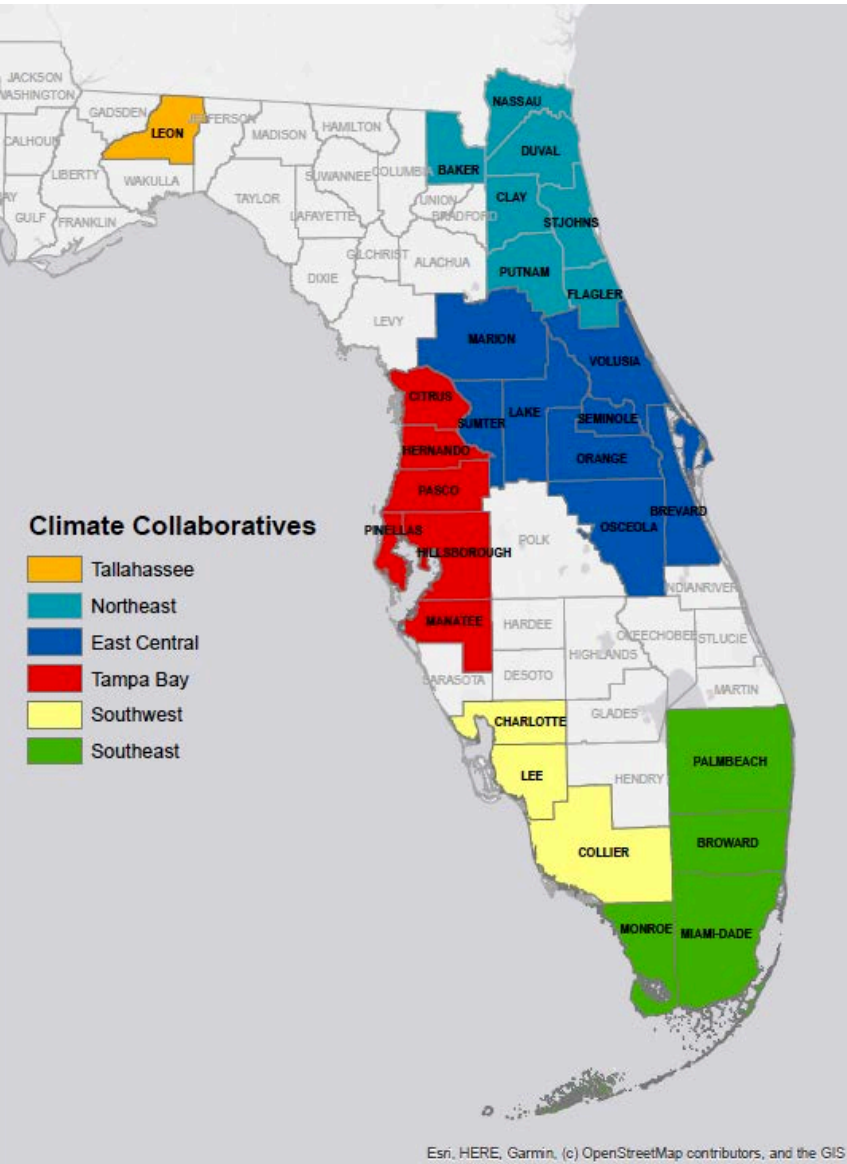
Daily Tide 2040
With Adaptation



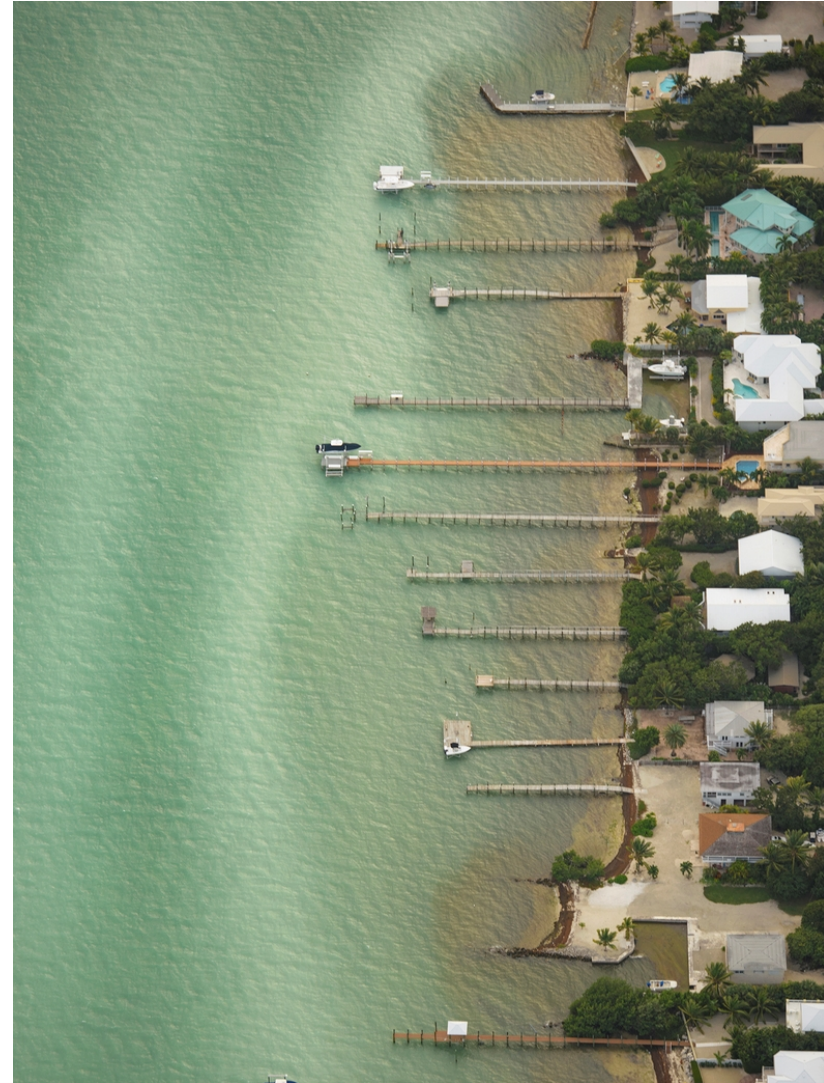
CLIMATE & RESILIENCE COLLABORATIVES

Six regional collaboratives

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- East Central FL Regional Resilience Collaborative
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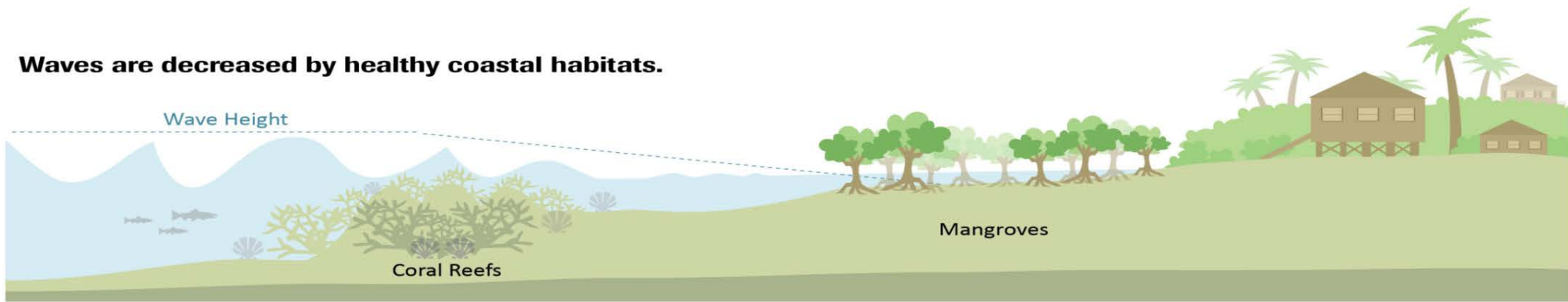


The Nature Conservancy is working in Florida to increase coastal **resilience** and climate **adaptation** by restoring natural infrastructure and implementing nature-based demonstration projects.

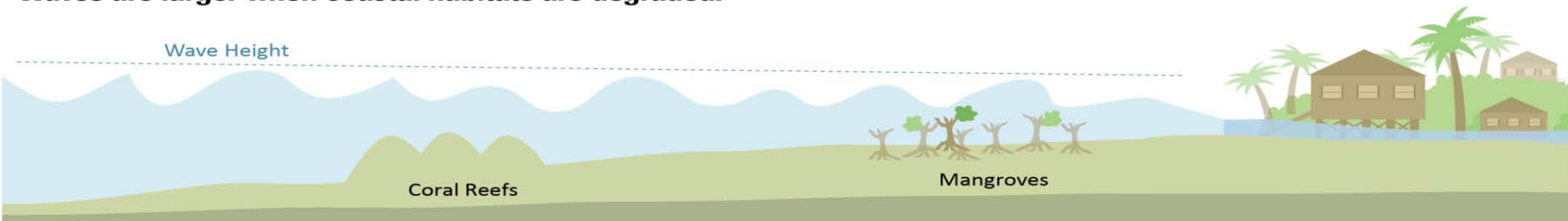


Natural infrastructure like salt marshes, oyster reefs, coral reefs and beach dunes protect and provide numerous co-benefits for coastal communities

Waves are decreased by healthy coastal habitats.



Waves are larger when coastal habitats are degraded.



Natural Infrastructure

Salt Marsh



Coral



Mangrove



Oyster



Dunes



Gray Infrastructure

Sea Wall



Sea Wall and Riprap



Levee



Dike



The Challenge: Today's Climate Reality

**62,000,000 PEOPLE GLOBALLY
AFFECTED BY CLIMATE EVENTS
(2018)**

**2,000,000 PEOPLE GLOBALLY
DISPLACED BY CLIMATE EVENTS
(2018)**

**SINCE 2017 FLOOD RELATED
DISASTERS COST THE US ECONOMY
\$407.7 BILLION**



Port Arthur, Texas August 2017

Sources: UN 2017, UN WMO 2018

The Business Case for Nature

Coastal wetlands

- Reduced flood heights and resulted in more than \$625 million in avoided flood damages across 12 states during Hurricane Sandy (2012)

Coral Reefs

- Prevent \$272 billion in flood damages from 100-year storms (global)
- \$675 million in annual avoided losses (FL)

Mangroves

- Protect the global economy from >\$80 billion in losses per year



Photograph: lifestorage.com

Quantifying Avoided Losses Due to Coastal Ecosystems

Comparing the cost effectiveness of nature-based and coastal adaptation: A case study from the Gulf Coast of the United States

Borja G. Reguero, Michael W. Beck, David N. Bresch, Juliano Calil, Imen Meliane

- By 2030 flooding will cost \$134 - 176 billion due to more development in risk prone areas
- Cost-effective adaptation measures could prevent up to \$57 billion in losses (43%) over the next 20 years
- Nature-based adaptation options could avert more than 36.6% of these costs (annualized portfolio) with an average benefit to cost ratio above 3.7

<https://doi.org/10.1371/journal.pone.0192132>



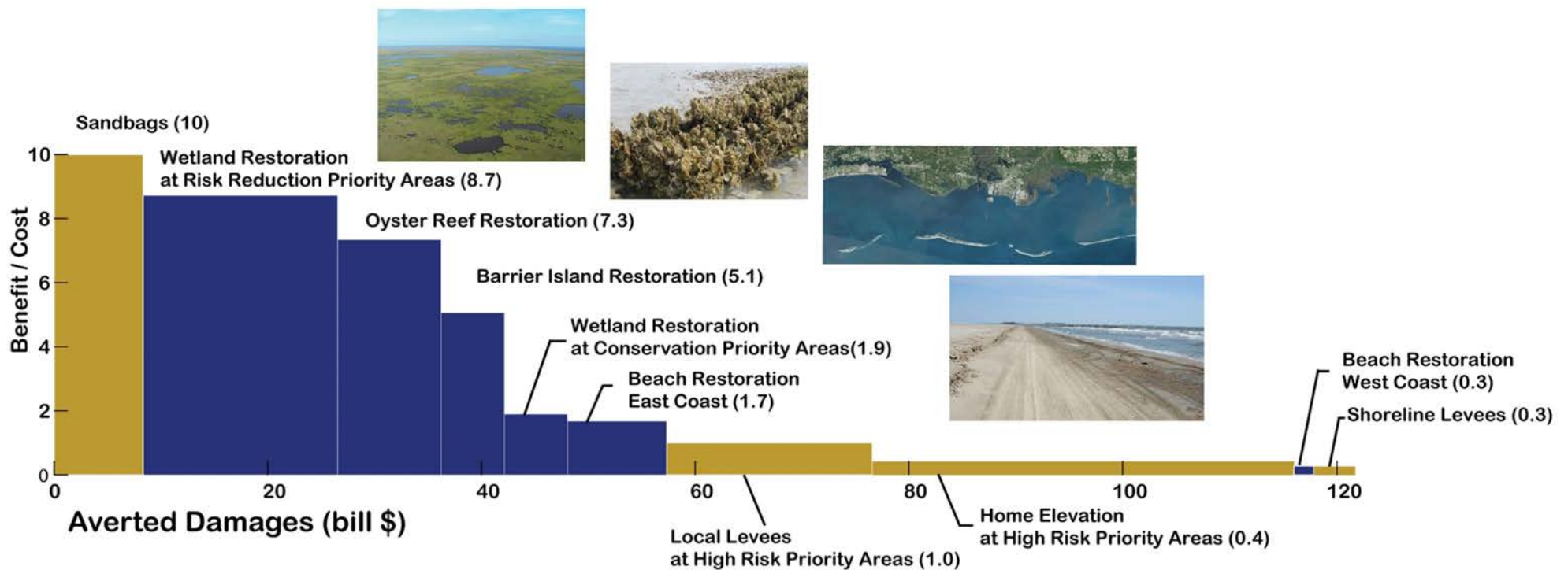
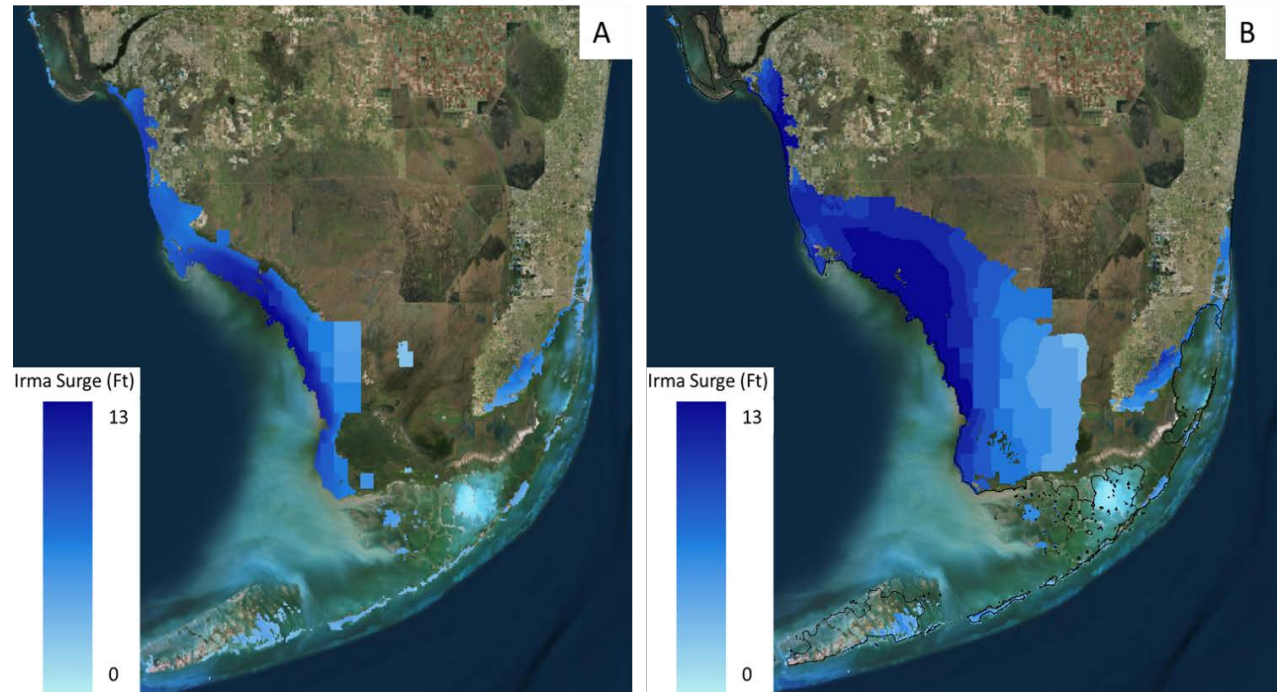
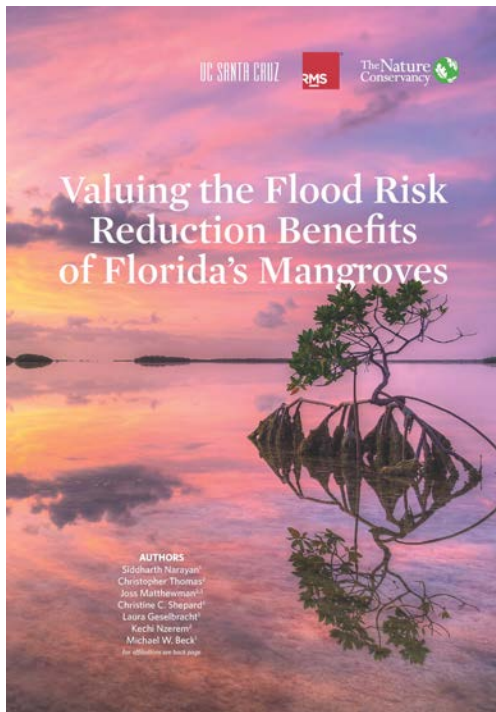


Fig 6. Cost-benefit analysis. Comparison of the costs and benefits of the adaptation measures. Benefit to cost ratios are represented in the vertical axis (height of the bars), with the horizontal axis noting the aggregated benefit (i.e. total averted damage), and the width of the bars the individual benefit from each measure. The blue bars identify nature-based adaptation measures, while the brown color represent the remaining adaptation measures. The values correspond to net present values with a 2% discount rate, for low future economic exposure growth and an implementation period of 20 years. Sources of images: flickr from U.S. Geological Survey, National Oceanic and Atmospheric Administration, U.S. Fish and Wildlife Service, and U.S. Geological Survey LandSat imagery.

<https://doi.org/10.1371/journal.pone.0192132.g006>

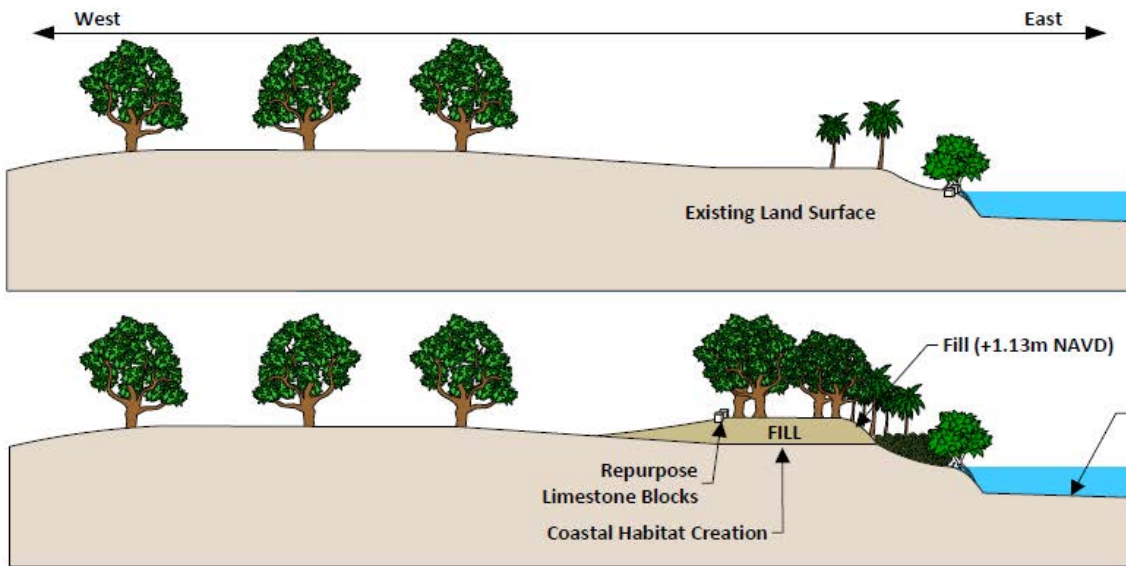
Collaboration with Risk Management Solutions (RMS) Value of Mangroves for Storm Loss Reduction, Hurricane Irma



Modelled flood extents during Hurricane Irma. A: With Mangroves, B: Without Mangroves. Base-map from ©ArcGIS Online.

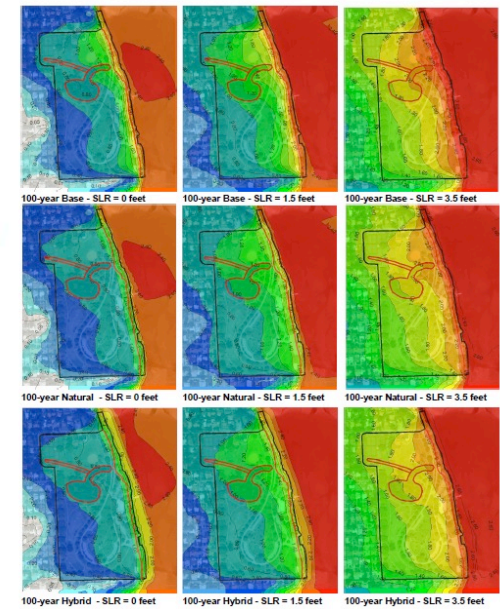
Narayan, S., C. Thomas, J. Mathewman, C. C. Shepard, A. Birch, L. Geselbracht, M. W. Beck. 2019. The Flood Risk Reduction Benefits of Florida's Mangroves During Hurricane Irma And Beyond. The Nature Conservancy, Washington, DC.

Coastal Resilience in Miami: Optimize Restoration

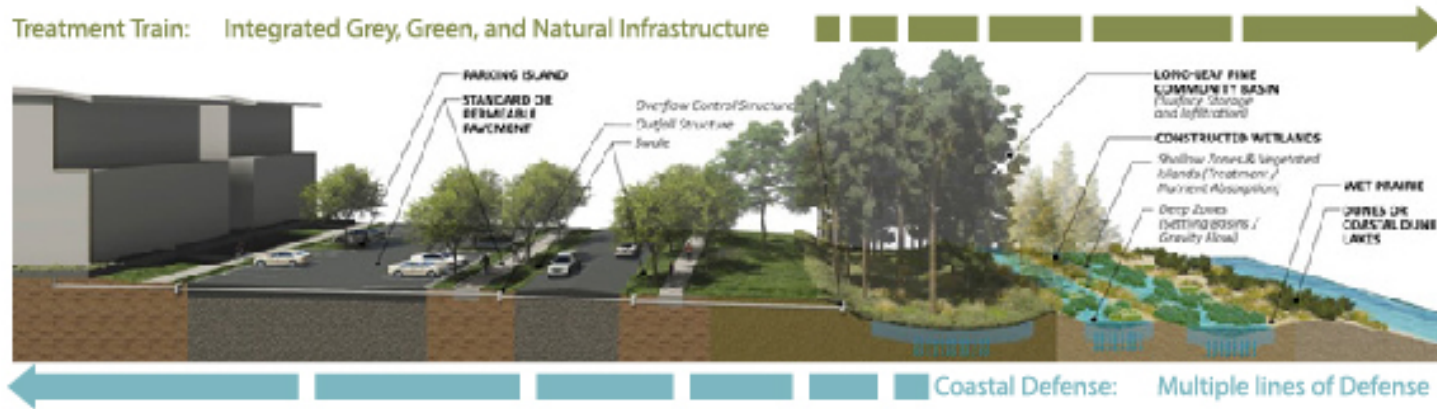


Section A – Existing Conditions

Section A – Natural Concept



Coastal Resilience at Tyndall AFB



Source: tyndallcoastalresilience.com

Recap: Nature-based solutions as part of a layered approach

- Reduce exposure of coastal infrastructure
- Preserve existing coastal ecosystems
- Optimize restoration/enhancement
- Utilize nature-based solutions combined with grey infrastructure for a hybrid solution
- Tackle root cause of climate change, not just the symptoms



Thank You!

For more information contact Rod Braun at rod.braun@tnc.org

Military Point of Contact

Designated Webpage

Staff Development

Student-led Transition Program

Extracurricular Star



THE FLORIDA PURPLE STAR SCHOOLS OF DISTINCTION (PSSD)

DEVELOPED BY THE
FLORIDA DEFENSE ALLIANCE

FAMILY SUPPORT
WORKING GROUP

RECOGNITION METHOD

- Florida Purple Star Schools of Distinction will receive a Proclamation signed by the Governor
- PSSD will receive a Purple Star Flag to be flown for the duration of the award (we recommend the award is on a two year cycle)
- The schools will have access to a Florida Purple Star Schools of Distinction icon to be used on correspondence

RECOGNITION CRITERIA

- Application and Portfolio of Evidence submitted by February deadline
- All schools meeting the deadline are considered
- Schools will be notified of award status the first week in April

THE FIRST PILLAR – MILITARY POINT-OF-CONTACT (MPOC) REQUIRED FOR PSSD CONSIDERATION

- The school will designate a staff member to serve as the Military Point-of-Contact (MPOC). The MPOC will:
 - Serve as the primary contact for military families and schools
 - Complete professional development to cultivate an understanding of military life
 - Work with school administration, military program partners, and the Florida Department of Education to provide yearly staff development
 - Identify military connected students within the school and inform teachers
 - Oversee the application process

THE SECOND PILLAR – MAINTAIN A DEDICATED WEBPAGE REQUIRED FOR PSSD CONSIDERATION

- The school will maintain a dedicated webpage for military families in which the following information is easily accessible:
 - Special Needs Navigation
 - Transition Information
 - Resources for Military Connected Families and Students
 - MIC3 and the State of Florida Department of Education

THE THIRD PILLAR – STAFF DEVELOPMENT REQUIRED FOR PSSD CONSIDERATION

- The school will hold annual staff development that draws awareness to military issues and topics that impact our military connected families

THE FOURTH PILLAR - PEER TO PEER TRANSITION PROGRAM REQUIRED FOR PSSD CONSIDERATION

- The school maintains a student led transition program to include a transition team advisor
- This program should provide peer support for newly enrolled and withdrawing students to include those that are military connected

THE FIFTH PILLAR – EXTRACURRICULAR STAR

SCHOOL MUST COMPLETE AT LEAST ONE OPTION FOR PSSD CONSIDERATION

- School hosts an annual military recognition event
- Conduct a support project connecting the school with military community partners
- Establish Yellow Ribbon events in which the school recognizes deployed military members
- The school produces a welcome video or slide show
- Faculty book study

QUESTIONS

