

An underwater photograph of a diver in a wetsuit and mask, reaching out towards the camera. The sun is visible through the water surface, creating a bright, shimmering effect. The water is clear and blue.

**Inspire  
Experience  
Learn  
Grow**



**SEA BASE**

*Inspiring The Next Generation of Leaders & Citizen Scientists*

**DRAFT 3**

# Sea Base

SCOUTING IS ALL ABOUT EXPLORING AND APPRECIATING THE WILDERNESS. THE FLORIDA NATIONAL HIGH ADVENTURE SEA BASE OFFERS A UNIQUE YEAR-ROUND OPPORTUNITY FOR YOUTH TO EXPLORE THE UNDERWATER WILDERNESS.



Imagine an adventure above, in and below the Atlantic Ocean and Florida Bay with coral reefs, colorful marine life, endangered Key Deer, unique birds, fish and shipwrecks to explore. Lifelong friendships are made among pillars of coral and multi-hued fish.

The Sea Base experience helps youth grow to be responsible adults. All Sea Base programs include hands on, experiential ecological and environmental programs to motivate youth to make a difference in our natural world as citizen scientists.



Headquartered in the Florida Keys on the world's third largest reef tract, programs span multiple locations including: Sea Base, Brinton Environmental Center, Big Munson Island, St. Thomas, St. Croix, US Virgin Islands, Bahamas and Dry Tortugas.

# Underwater Adventures

3

TAG SHARKS,  
REPLANT CORAL,  
RESTORE CORAL  
REEFS



BUILD & USE  
UNDERWATER  
ROBOTS IN A  
MARINE STEM  
ADVENTURE

15,000 YOUTH  
EACH YEAR  
CHOOSE FROM  
19 DIFFERENT  
PROGRAMS

EXPLORE MARINE  
LIFE WHILE SCUBA  
DIVING FROM A 53-  
FOOT DIVE BOAT

Young people grow in character  
as they take responsibility for  
themselves, their vessel and their  
fellow Scouts during their trek.

CAMP ON AN  
UNDEVELOPED  
BARRIER ISLAND

SAIL TO THE  
MARQUESAS TO  
FISH, SNORKEL  
AND EVEN CATCH  
SOME LOBSTER



NAVIGATE YOUR  
40-FOOT SAILBOAT  
THROUGH THE  
WATERS OF THE  
ATLANTIC OCEAN



# Prepared For The Future?

## 60%

The job market is changing by the minute.

And most analysts agree that over 60% of current students will have careers that do not exist yet.\*



## PREPARING FOR SUCCESS

The World Economic Forum predicts the top three skills for 2020 are complex problem solving, critical thinking and creativity.

The best way to teach these soft skills is through real world problem-solving.

Kids respond positively to hands-on experiential learning to solve real-world problems. Learning in this way connects kids to their future purpose, helping define their tangible value and meaning in a bigger world. Today's young people don't just want to know they'll have a job. They want to play a role in shaping the world they'll inherit.\*

## CHANGING THE WAY WE TEACH

By solving problems impacting their world, young people develop confidence, and ultimately a sense of optimism about the future and their role in it. We need to set much bolder goals and connect hard skills to the soft skills needed for success. Kids today must learn to thrive in a future world that may be uncomfortable, nebulous, and full of hard questions.\*

## TOP 3

The top three skills for 2020 are complex problem solving, critical thinking and creativity.

## MOST

Most of the new careers will be based on science, technology, engineering and mathematics, STEM for short.

# INSPIRE

Scouts grow in confidence and skills but equally important is the understanding and respect for the environment gained during their Sea Base experience.

All programs of the Florida Sea Base have an environmental emphasis and educational component. Sea Base Eco programs provide opportunities to support research, study sea grass beds, participate in sea turtle counts, build deep water ROV's and grow coral to rebuild the Florida reef tract.

YOUNG PEOPLE  
LEARN THEIR ROLE  
IN ENVIRONMENTAL  
STEWARDSHIP

# EXPERIENCE

Scouting is associated with lower school truancy, lower rates of suspension, and greater improvement in math and English language arts than non-Scout peers.\*

# LEARN

**Tufts**  
UNIVERSITY

Scouts showed a three-fold increase in hopefulness when compared to non-Scouts. When youth are hopeful about the future, it is proven they are more likely to do well in school, have higher career aspirations and make more thoughtful choices.



With its comprehensive approach to helping young people be successful in school, career, and life, Scouting builds character, values, and self-confidence in today's youth.

# GROW |

# Big Vision

SEA BASE IS UNIQUELY POSITIONED TO ENGAGE YOUTH IN THE EFFORT TO TAKE CORAL OFF THE ENDANGERED SPECIES LIST RESTORING THE CORAL REEFS WILL HAVE AN UNPRECEDENTED POSITIVE ENVIRONMENTAL IMPACT.



90%

Planted coral has a 90% survival rate.

## WITH YOUR HELP

The Sea Base, in partnership with MOTE Marine Laboratory has built and is operating a coral nursery to grow and plant 10,000 coral each year. Your help will support and expand the current coral restoration program and a second coral nursery where more youth can study coral fragmentation, grow coral and collect data to be shared around the world.

## SEA BASE IS A BEACON OF HOPE

As part of Sea Base STEM programs, Scouts participate in growing, caring for and planting corals. Imagine the impact years after a Scout has planted corals and brings his or her son or daughter back for a visit, snorkeling "their reef". The Sea Base coral restoration program is part of NOAA's\* unprecedented program to restore 7 iconic reefs on the Florida Keys reef tract to 25% or more coral coverage.\*\*

The Sea Base coral nursery utilizes a process pioneered by MOTE which fragments coral to speed their growth 40x faster than in the wild. Fragments are placed on plugs the size of a quarter and grown in carefully controlled "raceways"/ aquarium. After growing for approximately 5 months these plugs are planted on a dead hard coral. Within 8-10 years the coral plugs grow together, covering the coral which would take hundreds of years to grow initially.

The 12 raceways in the Sea Base coral nursery will grow 10,000 corals each year to be planted on the reef by Scouts and staff; restoring acres of reef.

# DEVELOPING

the next generation of

# CITIZEN SCIENTISTS



Sea Base  
Coral Restoration Program

## Vision

Take coral off the endangered species list and regrow the world's third largest coral reef system.

## Citizen Scientists

Through experiential learning, Scouts develop a love for our oceans — sparking the sense of duty necessary to restore and preserve our reefs for the next generation.

## Problem

WORLD'S REEFS ARE DISAPPEARING

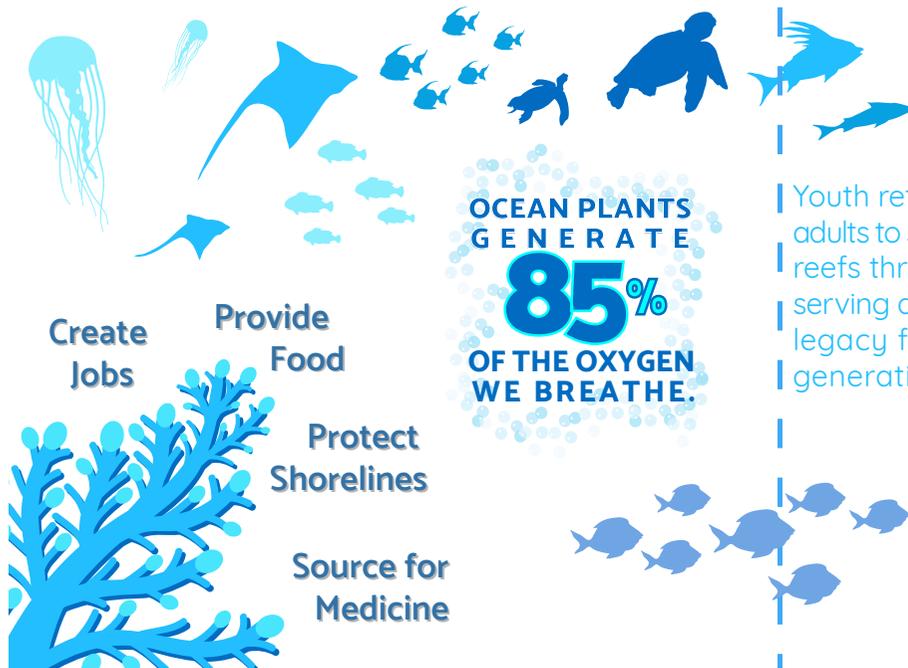


# 60%

 LOST BY 2030

## CORAL REEFS are Important

Florida Keys are home to over 6,000 species of fish, coral, and marine life — and to North America's only living coral barrier reef.



OCEAN PLANTS  
GENERATE  
**85%**  
OF THE OXYGEN  
WE BREATHE.

Create Jobs

Provide Food

Protect Shorelines

Source for Medicine

## Solution

Youth grow and monitor coral fragments at the Coral Nursery.



The coral fragmentation process speeds up reef recovery from a century to a decade.

Coral restoration — a hands-on, ocean learning experience for youth.

# Inspire Experience Learn Grow



Youth replant thousands of young coral each year - starting their coral reef legacy.

Youth return as adults to see "their" reefs thrive — serving as a living legacy for the next generation of citizen scientists.

# The Plan

**INSPIRE AND DEVELOP "CITIZEN SCIENTISTS" EQUIPPED WITH THE CHARACTER AND LEADERSHIP SKILLS NECESSARY TO STEWARD AND PRESERVE OUR OCEANS AND ENVIRONMENT.**

## TO ACHIEVE THIS VISION

Sea Base has cultivated key partnerships in the marine science community to provide the curriculum and research rigor necessary to provide world class ocean experiences.

The Sea Base has experienced tremendous growth due to the once in a lifetime experiences its programs provide. From an initial group of 300 Scouts in 1980 (the year Sea Base was founded) it has grown to serve over 15,000 Scouts in 2019.

Currently, Sea Base programs fill up with a waiting list and staff/participant housing has reached capacity. To serve more youth with life changing programs we must expand capacity, modernize our current facilities and support the critically important coral restoration program. Your support of the Sea Base will enable programs to grow and serve 20,000 young people.



**WITH OUR UNIQUE COMBINATION OF CHARACTER-BUILDING ADVENTURES COUPLED WITH OCEAN ADVENTURE AND EDUCATION, DEMAND FOR SEA BASE PROGRAMS HAS BEEN INCREASING YEAR-OVER-YEAR WITH A 26% INCREASE IN THE LAST 6 YEARS.**

## YOUR IMPACT

- 1** **INSPIRE** citizen scientists & create a model coral restoration program to be replicated around the world
- 2** Fund a full-scale Coral Restoration **EXPERIENCE** placing 10,000 corals on the reef per year.
- 3** Scouts **LEARN** to conduct scientific research and share their data with the world
- 4** **GROW** youth participation by 33% to 20,000.

# The Investment

## CONSTRUCTION & RENOVATION

<b>Phase 1</b>	<b>\$7,757,301</b>
Renovation and new construction of participant and staff housing. Maintenance Endowment (25% of construction cost)	\$6,205,841 \$1,551,460
<b>Phase 2</b>	<b>\$9,169,676</b>
Sea Base   Renovation of aging infrastructure in galley, ships store and commissary Brinton Center   Secondary staff housing and renovation of maintenance building. Maintenance Endowment (25% of construction cost)	\$7,335,741 \$1,833,935

## TOTAL INVESTMENT

**\$16,926,977**





## SEA BASE

*Inspiring The Next Generation of Citizen Scientists*



BOY SCOUTS  
OF AMERICA  
NATIONAL FOUNDATION