

NOYO CENTER FOR MARINE SCIENCE



Sheila Semans
Executive Director

www.noyocenter.org

Mission:
To advance ocean
conservation
through
education,
exploration and
experience



March 2020: Pandemic Hits

Can't go into classrooms, on beaches, or in the water

Discovery Center and Crow's Nest shut down

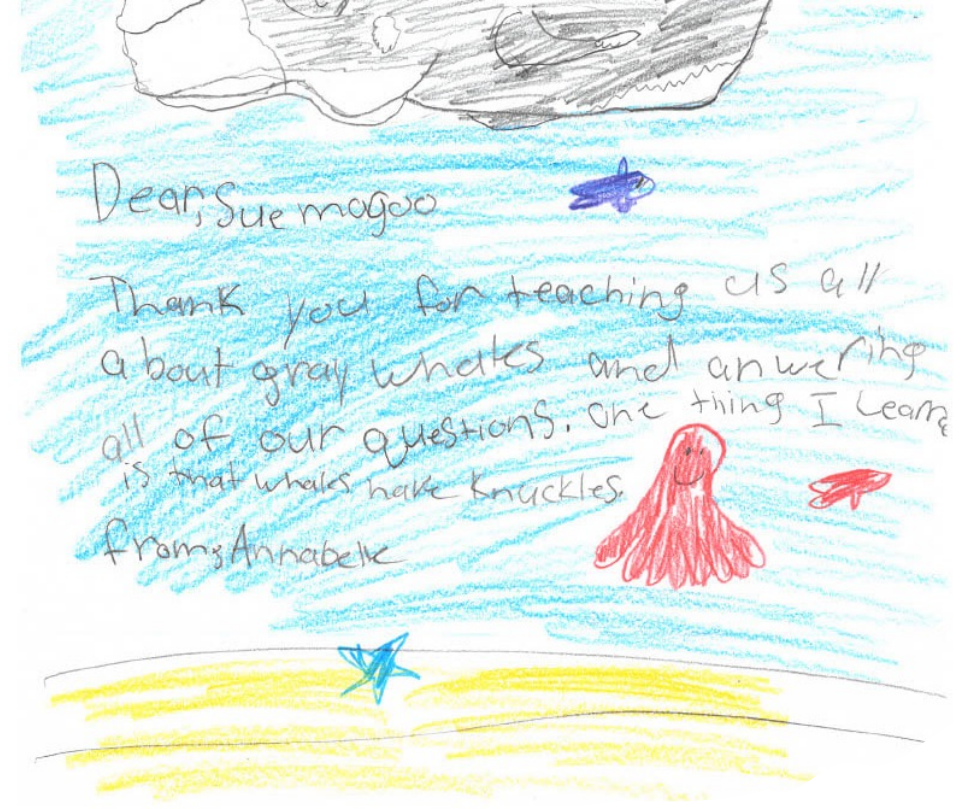
Can't engage volunteers

All employees have to work from home

All hands-on education/research halted

Lose 60% of our income overnight





EDUCATION

- Zoom lessons & outside classes
- Facebook read alouds
- FB Live aquarium feedings
- Video taped content (tidepool walk)
- At home art projects
- Social media

Science Talks

Science Talk:
Project Updates and Future Directions
for Kelp Restoration on the North Coast

Speakers:
Tristin McHugh
Ian Norton
Morgan Murphy Cannella
and Kristen Elsmore

Thursday, February 25th | 4 pm PST

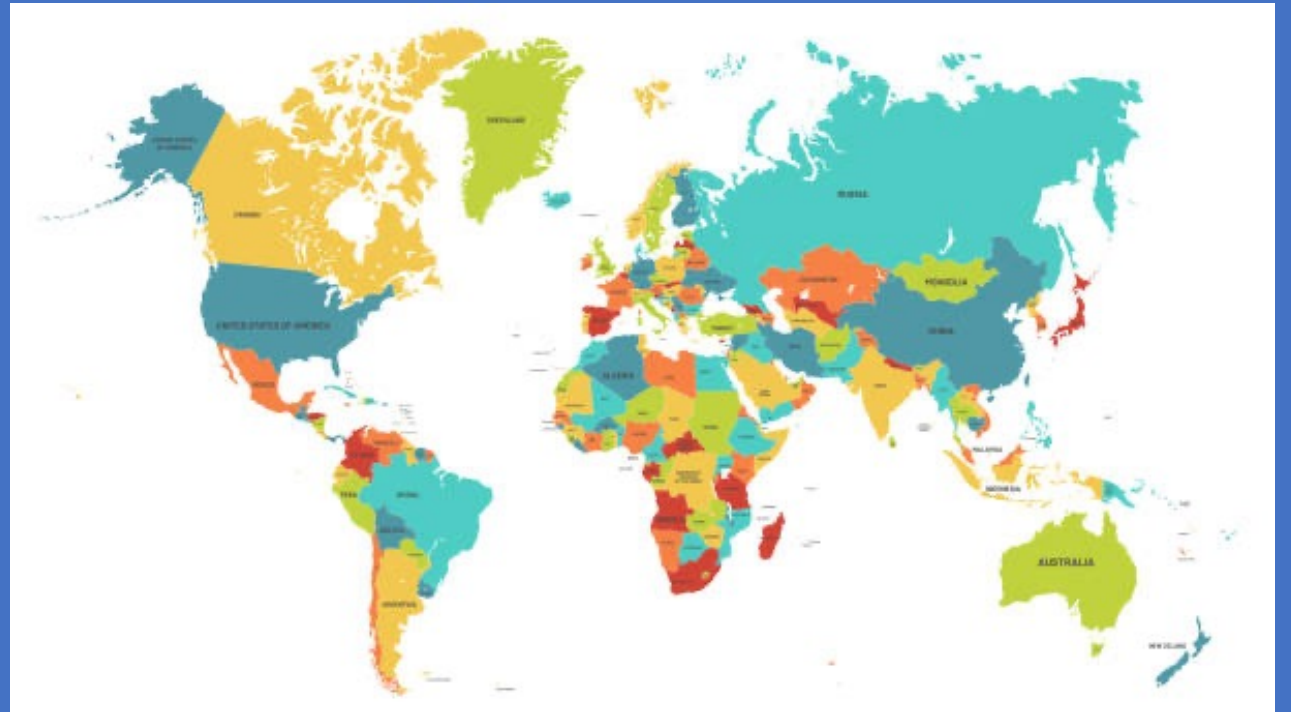
Suggested donation: \$10 | www.noyocenter.org/donate



Zoom Meeting ID:
845 2927 0395
Password: NOYO



Speakers from around the world



EVENTS

NOYO CENTER
for Marine Science

Celebrate
WHALE FESTIVAL
2021



Noyo Happenings



**VIRTUAL
MOSTLY!**



- ✓ **SCAVENGER HUNT- GET OUT AND EXPLORE!**
March 6-21. Games Rules and Registration at noyocenter.org
- ✓ **SCIENCE TALKS (VIA ZOOM)**
Mar 9, 6PM - "Whales Summering in the Alaska Arctic."
MAR 24, 2PM - "Investigating the fine scale foraging ecology of Pacific Coast gray whale feeding group."
Mar 31, noon - "The Gray Whale Cycle: 4,000 miles by bike and boat alongside the gray whale migration."
- ✓ **GRAY WHALE RESEARCH (FACEBOOK LIVE)**
MAR 20, 10-2: Track gray whale migration with Mendonoma Whale and Noyo Center (weather permitting)

A Virtual Tour of the Research Collection at the California Academy of Sciences with Ornithology and Mammalogy Collections Manager Moe Flannery



Friday, March 26
11 am PST

Zoom Meeting ID: 831 3730 2008
Password: NOYO



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HELP THE KELP COLLABORATIVE UPDATE

2021 INITIATIVES

- Purple urchin trapping tests
- Experimental bull kelp farm
- Drone Imagery of Kelp Beds
- Urchin ranching development
- Continued market exploration
- Kelp exhibit at Discovery Center
- Research!

BULL KELP CONSERVATION EFFORT

Noyo Bay Oasis Zone

Urchin clearing, Year 3

57 metric tons of urchin removed to date



Sunflower sea star now listed as critically endangered

RESEARCH

Six new kelp restoration projects have been funded by CA Sea Grant for a total of \$2.1million. Projects focus on genomics of bull kelp, modeling kelp recovery, assessment of kelp recovery efforts around the world, bull kelp spore production and out planting, transplanting kelp, optimizing management strategies, and understanding the dynamics of urchin recruitment, reproduction and density.



EDUCATION

Zoom School presented new opportunities and challenges engaging our kids. Noyo worked with local classes to provide kelp ecosystem lessons, while a PhD student at UC Davis designed an urchin curriculum based on the conservation effort and data. Noyo center will deliver this new curriculum locally this coming school year.



Commercial Diver Effort, 2020:

Season shortened due to covid

- Effort led by Reef Check CA
- 26,535lbs of urchin removed
- 49 vessel days
- Reduced purple 2 urchin per m²



Abalone Fishery Closed until 2026

RESTORATIVE SEAFOOD



Urchin "Raceways"



Harbor House Inn, Elk



RETAIL | Online and at Discovery Center



FUNDRAISING



Pfau Long Architects
present
Noyo Conceptual
Designs

Celebrate

NOYO CENTER FOR MARINE SCIENCE

Education

FUND A NEED

Yesterday. Today and Tomorrow

Fall VIRTUAL Fundraiser

SUNDAY, OCT 11 - AT 4 PM
TICKETS \$75

With Wine, Fun, and Tom Allman

BUY TICKETS

SPONSORS: TOULOUSE, PACIFIC STAR, NAVARRO, HUSCH



FIRST ANNUAL FUNDRAISER SCAVENGER HUNT

Sept.
18-27
2020



INDIVIDUALS: \$20 GROUPS: \$100

PROCEEDS BENEFIT THE NOYO CENTER FOR MARINE SCIENCE

**CASH AND
GIFT PRIZES**  **FUN FOR
ALL AGES**

PRE-REGISTRATION ENCOURAGED AT WWW.NOYOCENTER.ORG

Income Sources

- Paycheck Protection Program, Rounds 1 & 2
- Covid Economic Injury Disaster Loan
- Employee Retention Credit
- Mendocino Community Foundation Disaster Fund
- CA Covid Relief Grant
- TOT Tax
- Individuals – Recent campaign doubled our membership

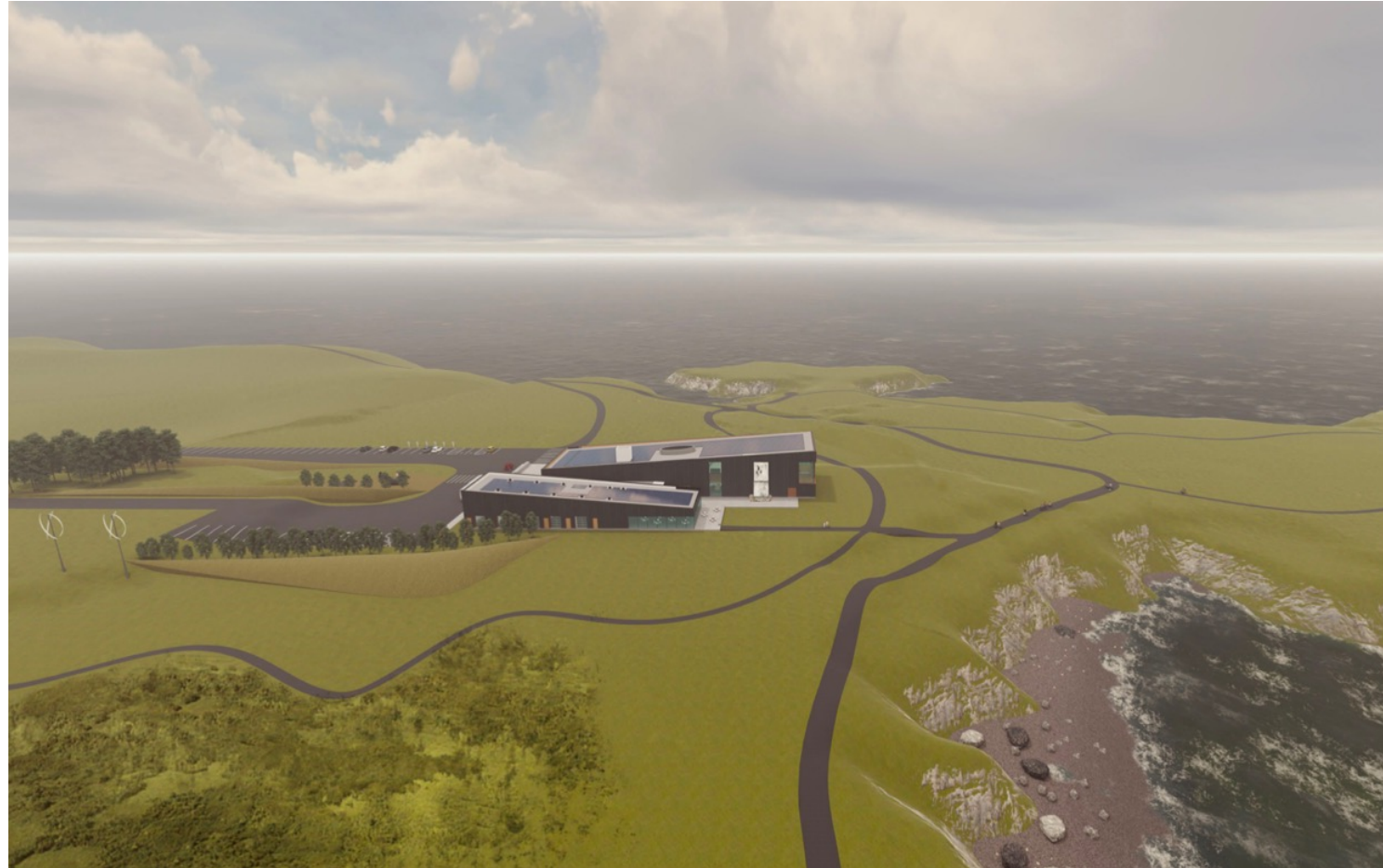
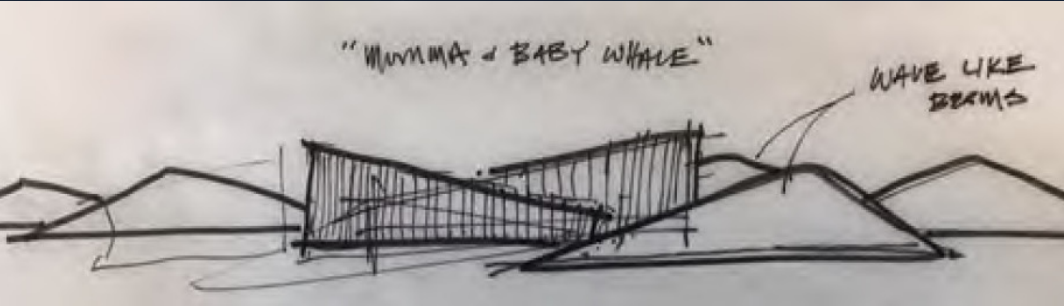


Noyo Center for Marine Science

Ocean Science Center Conceptual Designs



Mama and Baby Whale Inspiration







ADMIN		
admin offices	7	700
admin storage	1	300
conference room	1	400
collab.	1	400
library	1	200
security	1	200

Subtotal 2,200

CORE		
Lobby + Reception	1	1600
Lobby Storage	1	150
Gift Shop	1	550
GS Storage	1	200
Restrooms	2	400
Café	1	2000
Prep Kitchen	1	500

Subtotal 5,400

EXHIBIT		
Exhibit Space	1	6,500
Mezzanine	1	4,500

Skeleton Exhibit (included in above)
 Aquaria (included in above)
 Multi-Purpose Room 1 1900

Subtotal 12,900

SUPPORT		
Backup Generator	1	400
Electronics Shop	1	500
Exhibit and Lab Support	1	600

Subtotal 1,500

LABS		
Dry Labs(s)	1	700
Wet Lab(s)	1	800
Seawater Treatment	1	600
Maker Space	1	600
Teaching Lab	1	800
Specimen Storage (under ramp and in exhibit hall)		

Subtotal 3,500

TOTAL SQUARE FOOTAGE 25,500



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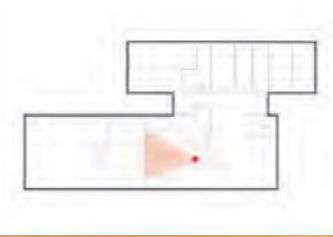
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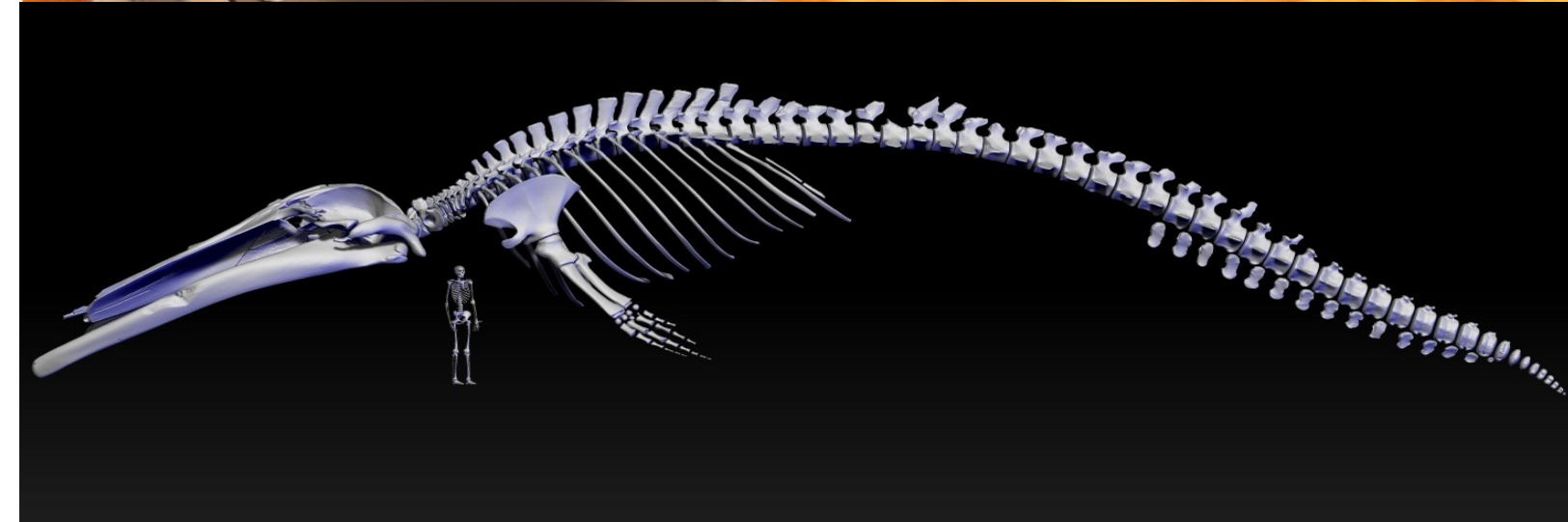
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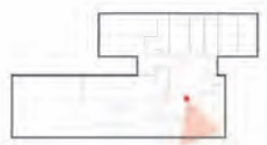
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NOYO Center Community Amenities



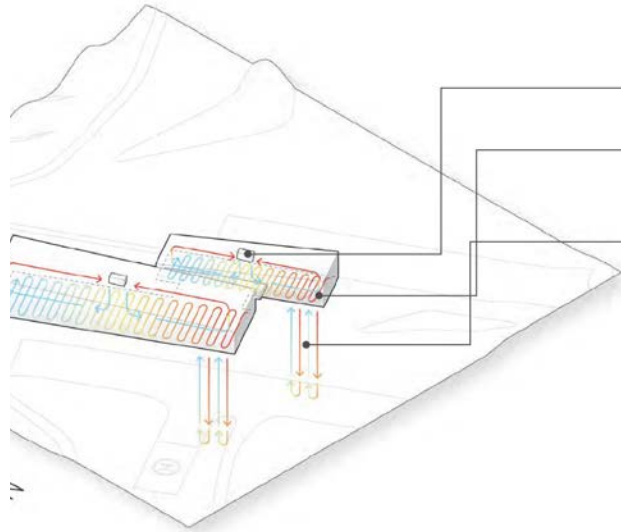
→
Café
Publicly Accessible from Coastal Trail



←
Multi-Purpose Room
Lectures, Rentals, or Temporary Exhibits

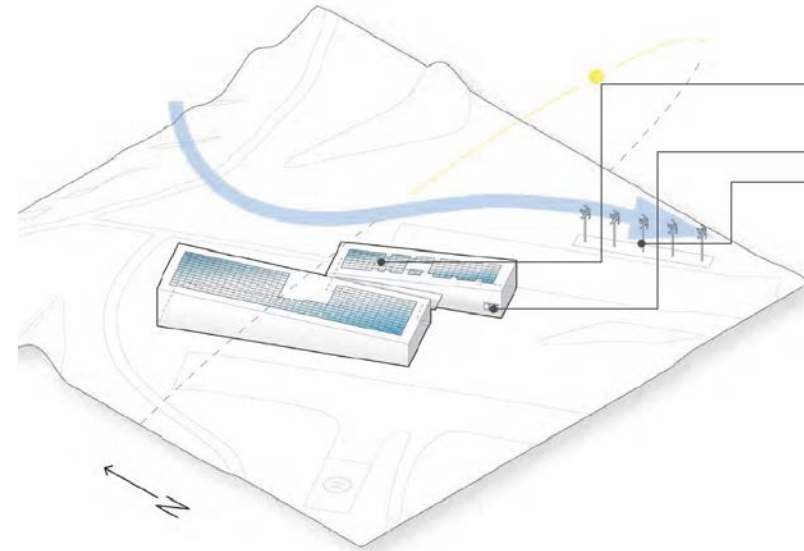
REGENERATIVE DESIGN

Active Strategies



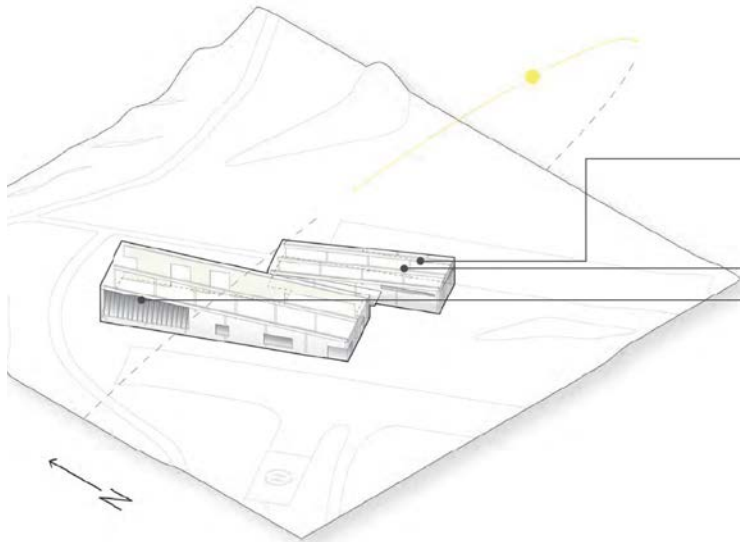
- 1. Dedicated Outdoor Air System**
With Energy Recovery Ventilator
- 2. In-Floor Radiant Heating and Cooling**
- 3. 100% LED Lighting**
With Daylight and Occupancy Sensors
- 4. Ground Source Heat Pump**
High-Efficiency Heating and Cooling

Energy Generation



- 1. Rooftop PV Array**
To generate 100% of Annual Building Energy
- 2. Interactive PV Display**
- 3. Vertical Wind Turbines**
Testbed for Manufacturers

Passive Strategies



- 1. High-Performing Envelope**
Highly insulated and airtight
- 2. CLT and Glulam Structure**
Low embodied carbon and renewable material that contributes to good envelope performance
- 3. Daylight Harvesting**
- 4. Optimized External and Internal Shading**
Minimize occupant visual discomfort and protect sensitive marine specimens







DISCOVERY CENTER NOW OPEN!

Thursday-Monday
11am-5pm

ORCA FACTS

SCIENTIFIC NAME: <i>Orcinus orca</i>	SIZE: 26 feet
DIET: Fish, marine mammals, birds, seals	REPRODUCTION: 1-3 calves per year
LOCATION OF COLLECTION: Hudson River	SEX: Unknown
CAUSE OF DEATH: Unknown	WEIGHT: 10,000 lbs
DATE: Unknown	ESTIMATED AGE: Unknown

FROM BEACH TO BONES

APRIL



Thank You!

www.noyocenter.org

Sheila Semans

Executive Director

sheila@noyocenter.org