

Artist Boat is a 501(c)(3) organization dedicated to promoting awareness and preservation of coastal margins and the marine environment through the disciplines of the sciences and the arts. Artist Boat was founded in August of 2003 in Galveston, Texas and since inception has:

served 39,405 participants with Eco-Art Programs,
 restored over 15 acres of barrier island habitats,
 installed 4 campus habitats,

•installed 5 low frequency AM Radio stations on campuses, and •installed over 37 large scale public art installations. During the fiscal year of September 1, 2009 – August 31, 2010 8,374 participants were served.

Artist Boat Annual Report

September 1, 2009 – August 31, 2010

Prepared by: Karla Klay

Annual Board Meeting: November 12, 2010

Science + Action = Gulf Coast Literacy

(Eco-Art Workshop & Adventure Program, Coastal Waters Institute, and Low Frequency Radio Station)

NOAA Bay and Watershed Education Training Grant is a 3 year grant for \$300,000 begun in October 2009.

This grant funds Artist Boat's:

- •<u>Coastal Waters Institute</u> (40 hour professional development for middle school teachers).
- <u>Eco-Art Workshops</u> (2 hour in-class program for middle school students)
- •<u>Eco-Art Adventures</u> (4 hours via kayak for middle school students).

This grant covers the regions of the Galveston Bay Estuary System,
Mission Aransas National Estuarine
Research Reserve, and the Barataria
Terrebonne National Estuary

This has grant severed 9.098 participants and provided 507 events, and trained 82 middle school teachers.



Artist Boat has students paddling in Redfish Bay. This is Artist Boat's first pilot program in another region of the Gulf coast. The Mission Aransas National Estuarine Research Reserve has a new curriculum and outreach program through funding from NOAA B-WET. This program has matching grant funds from the Texas Education Agency.

Eco-Art Workshops

Eco-Art Workshops provide:

- •educational, hands-on activities about the benefits, multiple uses, nonpoint source pollution, flora/fauna, and historical perspectives of estuarine systems, barrier islands, and the Gulf of Mexico;
- demonstration and application of artists' watercolor materials to interpret nature; and
- discussion about formation of barrier islands and river delta formation by deposition of sediments by rivers and oceans;
- illustration of climatic processes and sea level rise; and
- •introduction to Eco-Art Adventure interpreted tours of estuarine habitats.
- •Since inception 11,095 participants have been served since 2003 and in this fiscal year 3,055 participants have been served by this program.

Students at work in Corpus Christi ISD



Eco-Art Adventures

- •Eco-Art Adventures are, four hour field labs via kayak and/or vessel that provide:
- •application of hands-on, real-world interactions that combine art and science in interpretation of the current and historical significance and uses of estuaries, barrier islands, and the Gulf of Mexico;
- •interactions with restored and natural salt water marshes interpreted by a marine scientist and a artist guiding participants in the personal interpretation of their experience and the wetland ecosystem through the use of watercolors in situ;
- •discussion designed to reinforce knowledge and awareness of the major functions of wetlands, multiple uses of estuaries, economic benefits to humans provided by estuaries, and the flora and fauna of the local ecosystem;
- •introduction of traditional sampling tools used to collect biotic and abiotic data; and
- •formation of vocabulary and tools used by restoration scientists, fisheries biologists, and natural resource managers.
- •Since Inception this program has served 10,650 participants and in this fiscal year this program has served 2,068.



Students paddling in a place of natural significance on the Gulf coast. Artist Boat has 15 paddling destinations in three major estuarine systems on the Gulf coast for Eco-Art Adventures.

Students learn how to work as at team paddling, measuring water quality, and observing nature.









Coastal Waters Institute

Coastal Waters Institute is a week long professional development during the summer that provides pre-service and in-service credit for faculty in Art, Math, Science, Social Studies, and English.

Artist Boat has:

- developed, implemented, and provided a Coastal Waters Institute for Art, Science, English, Social Studies, and Math teachers to train middle school teachers to utilize experiential learning cycles, NOAA data tools, Eco-Art Pre/Post Activities and Environmental Literacy Test in the classroom to promote science/ocean literacy.
- •This consists of four 1-week long experiential and place-based professional development programs for teachers in Texas and Louisiana each summer with content in the field focused on the Galveston Bay Estuary Program's 17 priorities outlined in the "The State of the Bay A Characterization of the Galveston Bay Ecosystem" 2nd edition, Barataria-Terrebonne National Estuary program goals, Coastal Bends and Bay Estuary Program goals, and the National Oceanic Atmospheric Administration standards for Ocean Literacy.
- Teachers participate and receive training in Artist Boat Eco-Art Programs (workshop, kayaking, vessel tours, habitat restoration), Curriculum (24 pre and post interdisciplinary classroom lessons), and Environmental Literacy Test focusing on Science and Math.
- •This training provides a framework of understanding about how each lesson fits together to create a learning experience taking place over the course of a year.
- •Teachers will also be given the tools necessary to deliver all lessons, create a culminating display for the entire student body to experience on their campus, and utilize a low frequency AM station to provide Ocean messages to their local community delivered by students.
- •This program has served 82 middle school teachers since October 2009 through funding from NOAA B-WET and the Texas Education Agency.





Coastal Waters Institute Teachers experience a week of training via kayaks, vessels, 24 lessons, and presentations that are aligned with national, Gulf wide, and local estuarine issues.

Artist Boat has curriculum for three estuaries of national significance on the Gulf of Mexico for Middle School Teachers addressing issues local to the region through interdisciplinary lessons and all student assessment tools are on line.



Low Frequency AM Station NOAA B-WET – 7 Middle Schools

Installation of Low Frequency Radio
Broadcast system at 7 middle school
campuses in order to provide a student
driven media outlet to their community
provides: ocean messages to the schools
local community of parents, neighbors,
and local business owners providing a
stewardship component that is student
and teacher driven.

All broadcasts will be posted on Artist Boat's web site in podcast format. This system is being field tested at Browning Elementary.

Science + Action = Gulf Coast Literacy addresses the needs for educational reform and teaching skills in the region through the described components of the program.

Installation will begin this winter of 5 radio stations. This program serves 100's of people in the campus community.





Low Frequency Radio Station – Louisiana State University

A professional development for the Coastal Literacy Radio Stewardship Project for Kids (CLRSPK) was conducted by Artist Boat staff in Baton Rouge at Louisiana State University under a partnership with the LSU Coastal Roots program.

The professional development was designed to introduce and train select teachers on the use of the Apple Mac Book, Garage Band recording and editing software, installing and managing an AM radio transmitter, and the development of radio episodes for broadcasts and podcasts by teachers and students.

The training occurred over a two-day period (July 25⁻26, 2010) and was attended by six educators/ administrators from three schools, director Pam Blanchard of the Louisiana State University Coastal Literacy Radio Stewardship Project for Kids (CLRSPK), and her two graduate student assistants.

The workshop included training in technical aspects (software, hardware, and recording equipment), developing creative and scientific content/scripts and art with students, and group exercises and troubleshooting sessions with Artist Boat instructors. At the end of the workshop, Artist Boat staff members and participating teachers scheduled installation of the low-frequency AM transmitters at Belle Chasse Middle School and Bishop Noland Episcopal Day School for August of 2010. The third participating school, Saint Charles Parish Schools Satellite Center, will have their installation completed in October of 2010. The installations at Bishop Noland Episcopal Day School and Belle Chasse Middle School were successfully completed on August 26th and August 27th of 2010.

Louisiana State University Coastal Literacy Radio Stewardship Project for Kids



By K. Angel Horne with Emily Ford

Program development funded by Louisiana Sea Grant College Program









Public & Private Eco-Art Adventure

Eco-Art Adventures are offered through a calendar of events and private bookings. Private bookings are from non-profits, families, groups, universities, and other institutions.

This program provides a way for people K-Grey to participate in Artist Boat's most recognized outdoor education program on the Gulf of Mexico through other mechanisms of funding than grants.

Artist Boat has served 4,989 participants through this program since inception and 1,264 during this fiscal year.



Artist Boat has three fleets of kayaks. Each fleet is able to float 25 participants, two guides, and a volunteer. This means that each day Artist Boat has the capacity to bring 75 participants into direct contact with estuarine environments.

One fleet was purchased directly, the Galveston Bay Estuary Program provided a grant for the second fleet, and the NOAA B-WET grant provided grant funding for the third fleet. Each fleet costs about \$30,000 to replace. Each is equipped with personal floatation devices, paddles, safety gear for guides, first aid kits, and repair kits.

Habitat Restoration Adventure Program

The Habitat Restoration Adventure Program began in January 2007, served 1,360 participants and restored 3.7 acres of sand dunes and 2.8 acres of wetlands with a grant from the Gulf of Mexico Foundation. This program provides an opportunity for people K-Grey to participate in service learning.

In September of 2009 Artist Boat was awarded a Texas Parks and Wildlife Department COOP grant for habitat restoration at Galveston Island State Park for \$50,000. This project provided opportunities for two middle schools in Galveston to participate in restoration of 10 acres of coastal prairie affected by Hurricane Ike at Galveston Island State Park through a service based learning project during the 2009-2010 school year. 10,000 plants were grown, 10 acres of prairie were restored, 1,150 volunteers participated and contributed 4,600 hours of service to Galveston Island State Park.

A total of 2,510 participants have been engaged in habitat restoration events.



Students work with the earth and gardening tools to transplant plugs to grow more plants, plant native plants, and restore the land.

Coastal prairie is the most endangered habitat in Texas. It represents essential habitat for many native species (endangered or threatened, flood retention, and erosion control).

K-Grey Participate in Habitat Restoration

Galveston ISD and Galveston County Master Naturalists at work at Galveston Island State Park restoring prairie after Hurricane Ike





Funding Provided by Texas Parks and Wildlife Department COOP Grant

Interpretive Signage at Galveston Island State Park

Galveston Island State Park Prairie Outreach Project



The coastal prairie of Texas and Louisiana is a grassland habitat similar to the tall grass prairie of the Midwest. It is dominated by little bluestem, brownseed paspalum, and indiangrass. Other plants and flowers include prairie coneflower, Texas coneflower, white heath aster, yellow-puff, sweet golden rod, and red milkweed. Over a 1,000 species of plants have been identified on the coastal prairie.

Coastal prairie is a native grassland found along the the western coast of the Gulf of Mexico, in southwest Louisiana and southeast Texas. The coastal prairie stretched from Corpus Christi, Texas to Neches Louisiana and up to 55 miles inland. At one time, over nine million acres of coastal prairie existed, however, today, less than 1% remains.



The Texas coastal prairie and adjacent coastal marsh habitats combine to provide immense habitat areas for migrating colonial waterbirds, shorebirds, birds of prey and sparrows. Native insects rely heavily on the coastal prairie. Even the monarch butterfly depends on the many milkweeds found on the prairie. Even with the significant decrease in habitat, more red-tailed hawks, northern harriers, white ibis, and white-faced ibises utilize the coastal prairie than are found in any other region.

In an effort to help combat the loss of this habitat the Artist Boat, with funding from the Texas Parks and Wildlife Department's Community Outdoor Outreach Program Grant, created the Galveston Island State Park Prairie Outreach Program. This program was designed to restore 10 acres of coastal prairie at the Galveston Island State Park and educate middle school students about this critical habitat. From September 2009 through May 2010, 10,000 native coastal prairie plants were planted and 100 pounds of coastal prairie mix seed was distributed by Galveston Island students.





Students at Austin Middle School with their prairie plants. They grew these plants for approximately two months before planting them in the prairie. Students grew 10,000 plants for the restoration project.





TEXAS

Artwork created by students while visiting the coastal prairie. Each



Students from Westbrook Intermediate planting in the coastal prairie.

Special thanks to Galveston Island State Park, Texas Master Naturalists,
and Galveston Independent School District.



Eco-Art Residency

Eco-Art Residencies are delivered to students by Artist Boat resident scientists and artists over the course of after-school programs, summer programs, or for a period during the school year. Residencies typically occur over the course of an academic semester, with a minimum of ten classroom sessions lasting 2.5 hours each. With the help and direction of Artist Boat residents. students have designed and produced murals, mosaics, metal sculptures, campus habitats, and low-frequency radio stations that have become permanent installations on campuses. In cooperation with school communities (students, parents, and staff) throughout the Houston-Galveston region, Artist Boat residents have worked to improve the quality of life and enhance awareness of regional flora and fauna on school campuses through the creation of native gardens and schoolyard habitats.

Since Artist Boat's inception 6,803 students have participated in this program and in 2009 -2010 1,228 students participated in the program.





TAMUG Eco-Art Residency resulted in a 5 foot by 8 foot mosaic of the marsh. This was created by 10 Ball High Students in July of 2010.

Ball High School Students at work building mosaic for Sea Camp at TAMUG. The Eco-Art Residency brings art and nature about specific habitats to the university community.



LA Morgan and Matthys Elementary Gateways were completed in the fall of 2009 and spring of 2010 both feature the floral and faunal changes from land, sea, and sky from the Gulf to the Bay. Eco-Art Residencies are ways for students to learn, make their campus memorable to the community, and beautify the campus.







These Gateway Mosaics
have two 13 foot tall
columns that have a
circumference of 8.5 feet.
That is 220 square feet of
mosaic tile work at each
campus.







Fonville Middle School Eco-Art Residency

Fonville Middle School in the 6th Grade participated in the Eco-Art Residency Program for two consecutive years. The first year students focused on building a watersmart habitat and honing their art skills. Artist Boat provided ancillary classes on campus Monday – Friday for all 6th grade students on campus during the class day.

The second year students produced a low-frequency radio station and created 14 murals for the outdoor habitat.

703 students have participated in this program at Fonville and this fiscal year 367 students participated.

This campus was transformed with public art, spoken word, and habitat creation.



Fonville Middle School two years in the making

Habitat Construction

Mural Creation





Fonville Students created 12 murals 8 foot by 6 foot in size for their outdoor classroom



Tune into Fonville Middle School's Ocean Literacy Radio Station















Eco-Art Residency KIPP Coastal Village

During the school year of 2009–2010 Artist Boat is conducted an Eco-Art Residency at the Knowledge is Power Program (KIPP) Coastal Village in Galveston. This residency focused on the six zones of the oceans and marine resources uses. The Eco-Art Residency at KIPP included daily instruction in two hour increments for the students who are received an integrated arts and science curriculum.

The Eco-Art Residency at KIPP culminated in 12 hand-painted tiled bench tops with all six sides containing a repeated mosaic pattern for the Seawall Beautification efforts following in the wake of Hurricane Ike. The benches are 34 inches X 71 ¾ inches and 71 ¾ inches X 19 ¼ inches.

Students in Kindergarten and 1st grades completed 6 weeks of daily programming learning about ocean processes and resources. This program served 203 students.





Students engaged in a series of 12 science themes each receiving two weeks of science lessons, a two week series of art skill building lessons, and two weeks of creating distinct bench tops. Each bench top has a unique them and builds the viewers knowledge of ocean and island processes and species.

This program was funded by KIPP Coastal Village, Reliant Energy, and NRG.





Satori School – A Part of Project SIT (Seawall Interpretive Trail)

For two weeks in the spring of 2009 Artist Boat held a two week long residency at the Satori School (with all grade levels) in Galveston to create and design two 34 X 72 inches bench tops for Project SIT.

During week 1 students created a bench top of neotropic birds that visit the Galveston Bay region. Students learned about the body and feather morphology of birds and what is so special that allows them to survive such a harsh migration. They also learned how to determine what or how a bird eats based on body and beak shape through an activity that required students to use everyday tools (that represented different bird beaks) in order to get "food". Once participating in these activities students created a bird on 4 pieces of tile making sure to pay attention to the feather, body and beak detail learned in earlier lessons.

During week 2 students created a bench top of the Loggerhead life cycle. Students learned the body morphology of sea turtles and played a game that represented the life cycle and struggles that sea turtles face. During this game students learned how humans have greatly affected the life cycle and the amount of sea turtles that actually make it to maturity.



This program served 31 students and the parents at Satori raised the funds to provide the Eco-Art

Residency to their campus

Edison Eco-Art Residency: The Secrets of Sharks. Edison Middle School. Fall 2009. In partnership with Young Audiences

This 5-day residency focused on interactively teaching about shark biology and endangerment through science and art activities. Students in Mr. Littlefield's art classes (6th – 8th grade mixed) were given the opportunity to learn by performing their very own dogfish shark dissections, as well as by participating in educational "shark detectives" and shark endangerment games. Watercolor painting and sculpting were also incorporated to encourage naturalist art expression and a greater understanding for how shark physiology defines how each species has adapted to their environment. In the end, each student produced a beautiful watercolor piece depicting a chosen shark species. Each art piece was also a piece to a giant puzzle. When these pieces came together, a 13-foot long by 3-foot tall juvenile whale shark was formed. Students, teachers and school visitors could view and learn about this large, dynamic, temporary display in the hallway by the art room at Thomas E. Edison Middle School. This program served 54 students.



Young Audiences contracted Eco-Art Residencies this year for the School For Success, Edison, and Wilson Middle Schools

At the **School for Success** students in two grade levels were served with 6 hours of Eco-Art Education focusing on an extended lesson on the watershed, estuary, Gulf of Mexico, specimens, and non-point source pollution.

Each student completed a watercolor and there was a school wide exhibition of over 150 watercolors. Each depicted a species that students painted from specimens collected from area bait camps. This residency served 175 students.



Woodson

Eco-Art Residency: Zones of the Ocean. Woodson Middle School. Fall 2009

Demographic Information

	African American	Hispanic	Caucasian	Asian	Other	Male	Female
Children (<12 yrs)	0	0	0	0	0	0	0
Children (12- 18)	45	4	0	0	0	27	22
Adults	1	0	0	0	0	1	0
Seniors	0	0	0	0	0	0	0
Total	46	4	0	0	0	28	22



Over a 10-day period, 7th grade science students from two classes participated in a variety of science and art activities that reflected five major zones of the oceans: the intertidal, benthic, neritic, pelagic and abyssal zones. Each science lesson included hands-on activities or games, such as marshin-a-tub, the tide pool challenge, live animal examples, and a mud grab. After each lesson, students created large watercolor paintings of animals of the intertidal zone and used recyclables such as cans, plastic bottles and egg cartons to create animals of the benthic, neritic, pelagic and abyssal zones. Using recyclable goods pushed the message to keep our oceans clean! All art pieces were then incorporated in a large, temporary art installation constructed of colored butcher paper. The students were challenged to install their art pieces in the proper zones based on what they learned during the residency. This program served 50 students.



Garfield Elementary – Life on the Bayou Mural for the SPARK Park

Life on the Bayou for the Garfield Spark Park was funded by Harris County Department of Education. Garfield hosted students from 5 area high schools for their Art 1 Credit. As a community based service learning project for the high school students and demonstration of work force training the students were led by Courtney Meislelman in the creation of an 8 foot by 24 foot mural to interpret Life on the Bayou. Students examined local ecology through science, art, and a kayak adventurers. This program served 20 students and was funded by the Harris County Department of Education.







Professional Development

Artist Boat provides professional development for teachers through Eco-Art Adventures via kayak and vessel, through a series offered through the Young Audiences Catalog, and through grants from NOAA B-WET.

103 teachers participated in Professional Development during the 2009 – 2010 year and 1,043 during the first 7 years of Artist Boat's operation.

Do You Smell Something Fishy



The Art of Metamorphosis:
 Caterpillar to Butterfly



Science + Art = Partner

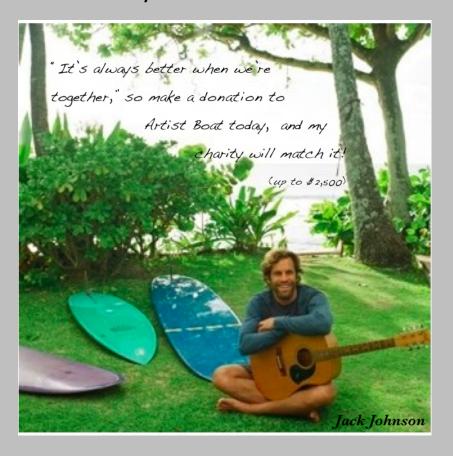


Artist Boat gets teamed with Jack Johnson We were invited to be a local non-profit to benefit from his All At Once matching donation campaign that coincided with his To the Sea Concert. Artist Boat will be given \$2,500.

Paddle out and Clean UP event at Drum Bay to promote stewardship in conjunction with his campaign

Artist Boat presents "To the Sea" Clean Up / Paddle Out! A bay clean-up, community kayak paddle, and pre-concert FUNdraiser for musician Jack Johnson's "To the Sea Tour" (benefiting Artist Boat through donation-matching!) What: A Galveston Bay cleanup free kayak trip (for up to 25 participants) and fundraiser / raffle When: August 14, 2010, 9 a.m. 1 p.m. Where: Drum Bay on Follet's Island Join us to clean up Drum Bay at Follet's Island, a beautiful area surrounded by ecologically rich rookery islands and oyster reefs, but impacted by human pollution. We will clean from 9 - 11 a.m. and provide a guided tour of the surrounding bay from 11 a.m. - 1 p.m. (for up to 25 participants, early registrants have priority for kayaking, must attend clean-up to kayak). The event is a fundraiser and pre-concert celebration for Jack Johnson (concert at The Woodlands, August 18) who's charity will match all donations, dollar-for-dollar, to Artist Boat (up to \$2,500). Concert tickets will be raffled at this event for \$5 (a \$50 value per ticket)! Call today to register for this event! 409.770.0722

Artist Boat's Fan page hosted this image and the \$2,500 was raised mostly on Face Book



To the Sea with volunteers at Drum Bay and a concert with Jack Johnson

Artist Boat at the Discovery Green showcasing our programs to the people at the concert - To the Sea

Volunteers at Paddle Out and





Settegast Coastal Heritage Preserve – Marquette Property 360 acres

Grants Submission Process

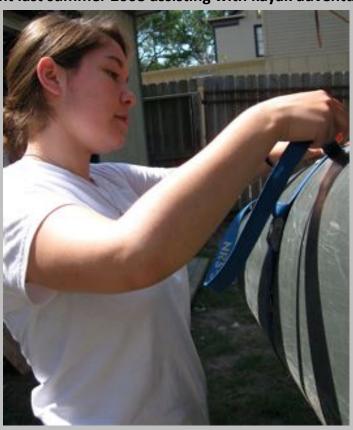
- State of Texas Hazard Mitigation Grant Declined September 2009
- NOAA Coastal Estuarine Land Conservation Program applied for April 9, 2010 and ranked 9th in the nation, awaiting Congressional Appropriation for grant. \$3M applied for with City of Galveston and \$3M in match to Artist Boat from Marquette if grant awarded. This was nominated by the General Land Office
- Texas Parks and Wildlife Department submitted application to Coastal Wetlands Protection and Restoration Act in the summer of 2009 to US Fish and Wildlife Service for \$1M with match from Cabeza De Vaca and the Galveston Bay Foundation (in form of land from Moore's Island. This grant can be applied for again if awarded for an additional \$1 M during their next grant cycle.
- Next Steps underway for 2010 are:
 - applications to the General Land Office Coastal Impact Assistance Program (\$3.5M and North America Wetlands Conservation Act \$1M)
 - formal purchase options with timeline with Marquette
 - Campaign for private funding established that is citizen led by West Galveston Islanders and Houstonians vested in conservation initiative.
 - Chris Cahill is writing an agreement with options between Marquette and Artist Boat.

The land we are working to preserve



Shell Internship — Artist Boat has had two consecutive Shell Interns. Both were hosted by the Canright Family of Galveston on the East End

Courtney Brown of University of Texas at Arlington spent last summer 2008 assisting with kayak adventures



Leah Tapley of Louisiana State University spent the summer of 2009 assisting with Project SIT and did a sidewalk art demonstration during Artwalk



Partners

- •NOAA Bay and Watershed Education Training
- •Texas Education Agency
- •Texas Parks and Wildlife Department
- •Harris County Department of Education CASE ASI
- •Young Audiences of Houston
- •University of Houston Environmental Institute of Houston
- •University of Texas Marine Science Institute
- •University of Texas A&M at Galveston
- •Blinn College
- •Fonville Middle School
- •KIPP Coastal Village
- Satori School
- •Galveston ISD
- •Galveston County Master Naturalists
- •NRG
- •Reliant Energy
- •Tabitha Foundation
- •Texas General Land Office
- City of Galveston
- •Cabeza De Vaca
- •Galveston Bay Foundation
- •Gulf of Mexico Alliance
- •Galveston Bay Estuary Program
- •Environmental Protection Agency
- •Gulf of Mexico Foundation
- •Galveston ISD
- Houston ISD
- •Pasadena ISD
- •Corpus Christi ISD
- Port Aransas ISD
- •Ft Bend ISD
- Shead Conservation
- Waterborne Education Center
- •Chambers ISD
- •City of Houston SPARK PARK
- •City of Galveston Parks Board



Board Members

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Rani Henderson, Director of Education

Holly Fortenberry, Administrative Coordinator

Nicole Ekstrom, Habitat and Stewardship Coordinator

Lisa Reznicek, Eco-Art Coordinator

Erika Watson, School Liaison

Emily Ford, Eco-Art Education and Media Coordinator

Courtney Meiselman, Eco-Art Educator

Leslie Gilbert, Eco-Art Educator

Leah Tapley, Summer Shell Intern



Staff at the Forest, Oceans, Climate, and US festival hosted at Artist Boat

Total Served By Program 2003 - 2010

			Eco-Art	SEAC (03-07) and Habitat Restoration		Public Eco-Art		
	Eco-Art Workshops	Adventures	Residencies	Program (07 - 010)	Professional Development Workshops	Adventures	Public outreach	TOTAL
2003-2004	1103	1303	101	0	73	358	0	
2004-2005	828	902	608	420	111	511	611	
2005-2006	678	1055	1265	168	236	548	0	
2006-2007	2463	1782	992	63	275	591	576	
2007-2008	924	1942	1471	0	245	816	159	
2008 - 2009	2044	1598	1228	1360	119	527	299	
2009-2010	3055	2068	1238	1024	103	1264	300	
	11095	10650	6903	3035	1162	4615	1945	39405