

AMAZING OCEAN CREATURES OF STELLWAGEN BANK NATIONAL MARINE SANCTUARY

2015 CALENDAR



Award-winning entries from the Massachusetts Marine Educators Marine Art Contest
2015 Calendar plus bonus months

STELLWAGEN BANK
NATIONAL MARINE SANCTUARY
<http://stellwagen.noaa.gov>

MASSACHUSETTS
MARINE EDUCATORS
<http://www.massmarineeducators.org>

AMAZING OCEAN CREATURES OF STELLWAGEN BANK NATIONAL MARINE SANCTUARY

December 2014-February 2016 Calendar

Massachusetts Marine Educators, a non-profit organization of formal and informal educators, is proud to offer this 2015 calendar showcasing entries from the 2014 Marine Art Contest for students in grades K-12. The annual contest's theme is "Amazing Ocean Creatures of Stellwagen Bank National Marine Sanctuary." Entries are judged in five categories: elementary school (grades K-4), middle school (grades 5-8), high school (grades 9-12), scientific illustration (all grades) and computer graphics (all grades). A major goal of this effort is to integrate science and art, and to instill in students an appreciation of the beauty and diversity of the marine life in waters off the Massachusetts coast.

We hope that you find inspiration from the work of these talented and creative student artists. While most of the entrants were Massachusetts-based public, private and home-schooled students, our 2014 contest attracted participants from six other states. We invite students from across the nation and around the world to participate in this year's contest (the deadline is May 1, 2015). You can find contest information at the back of this calendar or at the following websites: Massachusetts Marine Educators — www.massmarineeducators.org and Stellwagen Bank National Marine Sanctuary — <http://stellwagen.noaa.gov>.

The 2015 calendar is downloadable from both the MME and sanctuary websites. All prize-winning artwork and honorable mention selections from past years can also be viewed at the Kids Gallery on the sanctuary's website. The winning selections and some of the honorable mentions become part of a traveling exhibition that tours eastern Massachusetts sites. Check the sanctuary website for dates and locations.



Winning art from the
2014 MME Marine Art Contest



(Above) *Jellies* by Aimee Hill (Computer Graphics Division) gr. 11, Old Colony Regional Vocational Technical HS

Mixed Divisions (left to right):

Sea Stars by Margaret H., gr. 3, Brooks Elem. School, Medford; *Sea Turtle* by Danielle R., gr. 5, Gordon Mitchell MS, E. Bridgewater; *North Atlantic Right Whale* by Eugenia Nosyryeva, gr. 10, Swampscott HS; *Planktonic Worm* by Lavian R., gr. 8, Provincetown Schools (Scientific Illustration Division).

Cover: *Bluefin Tuna* by Deanna Longo, gr. 10, Old Colony Reg Voc Tech HS (Computer Graphics Division)

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2014 Marine Biodiversity Award Winners

For the 2014 Marine Art Contest, Massachusetts Marine Educators established a new set of awards to celebrate the diversity of marine life in the sanctuary. The sanctuary is one of the most biologically diverse areas in the Gulf of Maine, hosting close to 600 known species, and probably many others that are yet to be described (especially at the micro level).

Award-winning art, clockwise from top right:

INVERTEBRATE: *Squid and Shrimp* by Keegan Gilmore, Nauset Regional HS, gr. 12. Both of these species are invertebrates — animals without backbones. The vast majority of macrofauna (animals we can see) are so classified.

SEA TURTLE: *Green Sea Turtles* by Meghna Tummala, Washtenaw International HS, Ypsilanti, MI, gr.9. Sea turtles, and especially green sea turtles, are rarely seen in the sanctuary, but if they are, they are usually in pursuit of food. Most sea turtles spotted here are juveniles, especially the greens.

SEABIRD: *Great Shearwater* by Daniel X., Marshall Simonds MS, Burlington, gr. 8. Great shearwaters are common sights in the summer sanctuary. Birds will “run” across the water as they gather speed for flight. Sanctuary scientists have been attaching satellite tags to shearwaters to study their seasonal movements in the region.

MARINE MAMMAL: *Minke Whale* by Mary Negri, Falmouth HS, gr. 11. Marine mammals in the sanctuary include whales, dolphins, porpoises, and seals. The area is an important feeding ground for many species, including the minke — the smallest of the great baleen whales.

FISH: *Wolffish* by Saiya Rivera, Greater Lawrence Tech HS, gr. 9. This ferocious-looking fish sports large canine teeth and a bony plate on the roof of its mouth. It crushes its prey, such as starfish, crabs and other benthic invertebrates. Wolffish find mates and live in dens in boulder reefs.



AMAZING OCEAN CREATURES OF STELLWAGEN BANK NATIONAL MARINE SANCTUARY Species List



PHYTOPLANKTON

Diatoms
Dinoflagellates

ZOOPLANKTON

Arthropods – Copepods and other drifting crustaceans
Chaetognaths – Arrow worms
Cnidarians – Jellyfish
Ctenophores – Comb jellies
Mollusks – Pteropods (sea butterflies)
Larval fish and invertebrates

INVERTEBRATES

Sponges
Finger sponge
Breadcrumb sponge
Chalice sponge
Cnidarians
Frisled anemone
Northern red anemone
Northern cerianthid
Soft coral
Solitary hydroid
Bryozoans
Mollusks
Ocean quahog
Northern horse mussel
Sea scallop
Northern moon snail
Red-gilled nudibranch
Short- and Long-finned squid
Atlantic octopus
Annelids (segmented worms)
Brachiopods (lamp shells)
Arthropods
Rough barnacle
Acadian hermit crab
Jonah crab
Northern lobster
Northern pink shrimp
Sand shrimp

Invertebrates (continued)

Echinoderms
Asterias sea star
Spiny and Smooth sunstars
Horse and Badge stars
Blood sea star
Daisy brittle star
Northern basket star
Orange footed cucumber
Scarlet psolus
Common sand dollar
Green sea urchin
Tunicates
Stalked sea squirt (Boltenia)
Sea vase and Sea peach

SEA TURTLES

Kemp's ridley sea turtle (E)
Leatherback sea turtle (E)
Loggerhead sea turtle (T)
Green sea turtle (E) —
seldom seen

This is only a partial list of sanctuary species. A complete list of sanctuary marine life (culled from published scientific papers) can be found in Appendix J of the 2010 Final Management Plan and Environmental Assessment for Stellwagen Bank National Marine Sanctuary, available online at <http://stellwagen.noaa.gov>.

(T) - Threatened (E) - Endangered

FISHES

Sharks
Thresher shark
Blue shark
Shortfin mako shark
White shark
Porbeagle
Basking shark
Spiny dogfish
Skates
Winter skate
Little skate
Barndoor skate
Thorny skate
Small, Schooling Prey Fish
American sand lance
Atlantic herring
Atlantic mackerel
Atlantic menhaden
Butterfish
Flounders
Atlantic halibut
American plaice
Four spot flounder
Windowpane flounder
Winter flounder
Witch flounder
Yellowtail flounder
Gadids (cod family)
Atlantic cod
Cusk
Haddock
Pollock
Red hake
White hake
Silver hake (Whiting)
Silvery Swimmers (pelagic)
Atlantic salmon
Bluefish
Bluefin tuna
Striped bass

Fishes (continued)

Demersal Dwellers (seafloor)
Atlantic wolffish
Sea raven
Ocean pout
Acadian redfish
Longhorn sculpin
Shorthorn sculpin
Grubby
Northern sea robin
Cunner
Black sea bass
Goosefish (Monkfish)
Snakeblenny
Radiated shanney
Fourbeard rockling
Unusual Shape
Ocean sunfish (*Mola mola*)
Pipefish
Hagfish
Lumpfish

MARINE MAMMALS

Baleen Whales
Blue whale (E)
Fin whale (E)
North Atlantic right whale (E)
Humpback whale (E)
Sei whale (E)
Minke whale
Toothed Whales
Sperm whale (E)
Orca (Killer whale)
Long-finned pilot whale
Atlantic white-sided dolphin
Atlantic white-beaked dolphin
Common dolphin
Harbor porpoise
Seals
Harbor seal
Gray seal
Harp, hooded and ringed seals

SEABIRDS

Alcids
Razorbill
Dovekie
Atlantic puffin
Common murre
Black guillemot
Gulls, Terns and Gannets
Herring gull
Great black-backed gull
Laughing gull
Bonaparte's gull
Ring-billed gull
Iceland gull
Glaucous gull
Black-legged kittiwake
Least tern
Roseate tern
Common tern
Arctic tern
Northern gannet
Sea Ducks, Loons, Cormorants
Common eider
Atlantic brant
Great skua
Surf scoter
Common loon
Great cormorant
Double-breasted cormorant
Shearwaters and Petrels
Greater shearwater
Sooty shearwater
Manx shearwater
Wilson's storm petrel
Leach's storm petrel
Fulmars, Jaegers, Phalaropes
Northern fulmar
Parasitic jaeger
Pomarine jaeger
Red-necked phalarope
Red phalarope

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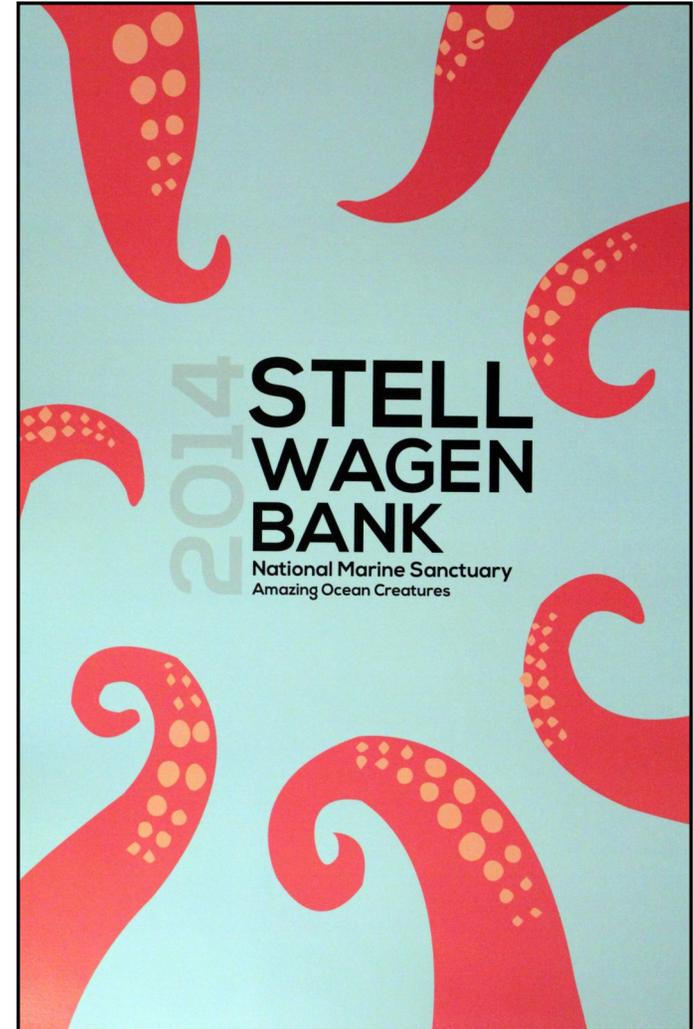


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 2014 MME Marine Art Contest

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DECEMBER 2014

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(Above) *Octopus* by Jasmyne Dias, gr. 10, Old Colony Reg Voc Tech HS, Rochester



COMPUTER GRAPHICS DIVISION (left to right):
Arctic Tern by Rebecca McEvoy, gr. 11, Old Colony Reg Voc Tech HS; *Sea Star*
 by Isabel A., gr. 2, Plymouth South Elementary School; *Humpback Whale* by
 Alixx Raymond, gr. 10, Old Colony Reg Voc Tech HS; *Wilson's Storm Petrels and
 Dolphin* by Isabelle Cadene., gr. 9, Boston Latin School

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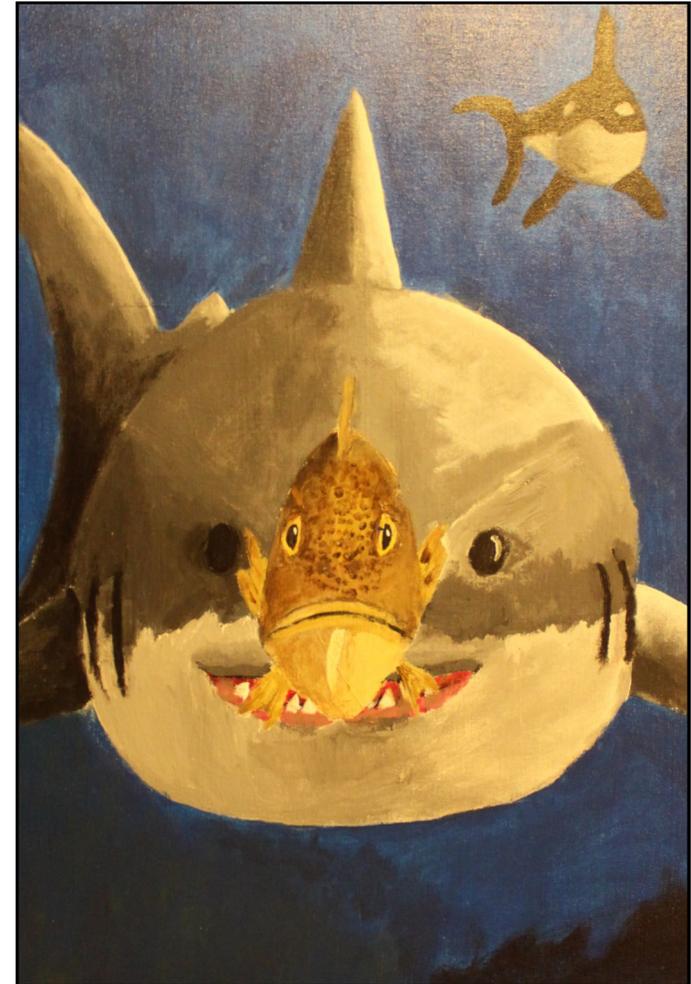


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JANUARY 2015

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(Above) *White Shark, Atlantic Cod and Orca* by Coleman Barnes, gr. 12, Plymouth South HS



HIGH SCHOOL DIVISION (left to right):
Octopus by Biana Furtado, gr. 12, Cohasset HS; *Minke Whale* by Mary Negri, gr. 11, Falmouth HS; *Striped Bass* by Lydia Antrim, gr. 10, Swampscott HS; *Atlantic Squid and Shrimp* by Keegan Gilmore, gr.12, Nauset Regional HS

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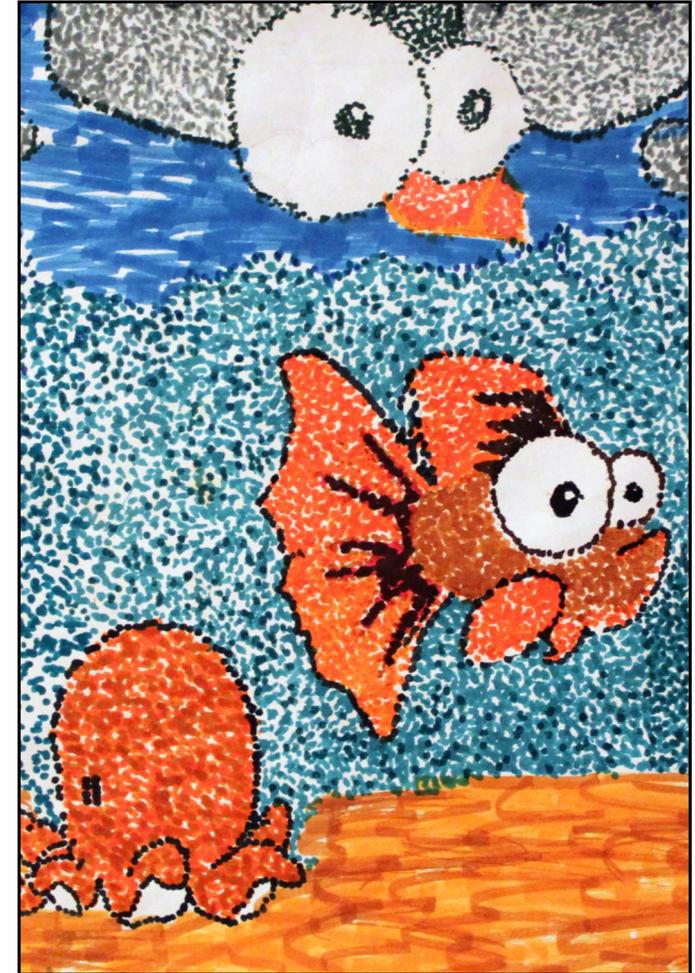


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FEBRUARY 2015

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(Above) Octopus, Gull and Black Sea Bass by Oakes A., gr. 3, Lincoln School Extended Day, Brookline



ELEMENTARY SCHOOL DIVISION (left to right):
 North Atlantic Right Whale by Yuki H., gr. 4, Lincoln School Extended Day, Brookline; Wolffish by Koen S., gr. 4, Antioch School, Fall River; Leatherback Turtle by Lauren L., gr. 4, Antioch School, Fall River; Atlantic Puffin by Everett D., gr. 2, Oak Bluffs School, Martha's Vineyard

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MARCH 2015

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(Above) *Lion's Mane and Moon Jellies* by Suzanne Sheng, gr. 10, Huran HS, Ann Arbor, MI



SCIENTIFIC ILLUSTRATION DIVISION (left to right):

American Lobster by Sally Z., gr. 8, Central Tree MS, Rutland; *Zooplankton* by Collin S., gr. 5, Provincetown Schools; *Kemp's Ridley Sea Turtle* by Marissa Freeman, gr. 10, Nauset Regional HS; *Striped Bass* by Luke G., gr.6, Plymouth South MS

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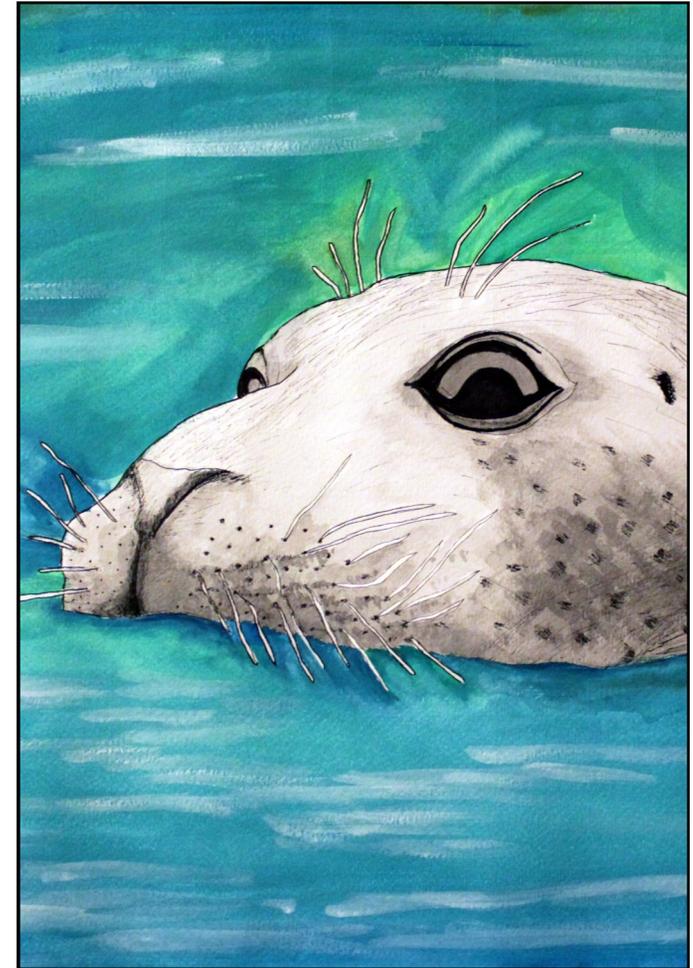


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APRIL 2015

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(Above) Harbor Seal by Milan S., gr. 7, Pierce Middle School



MIDDLE SCHOOL DIVISION (left to right):
Squid and Fish by Cleopatra A., gr. 8, Central Tree MS, Rutland;
Whale, Leatherback Turtle and Fish by Cille S., gr. 7, William Diamond MS, Lexington;
Loon in Flight by Ruby W., gr. 6, Cape Cod Lighthouse Charter School, Harwich;
Kemp's Ridley Sea Turtle by Chase W., gr. 5, Eddy School, Brewster

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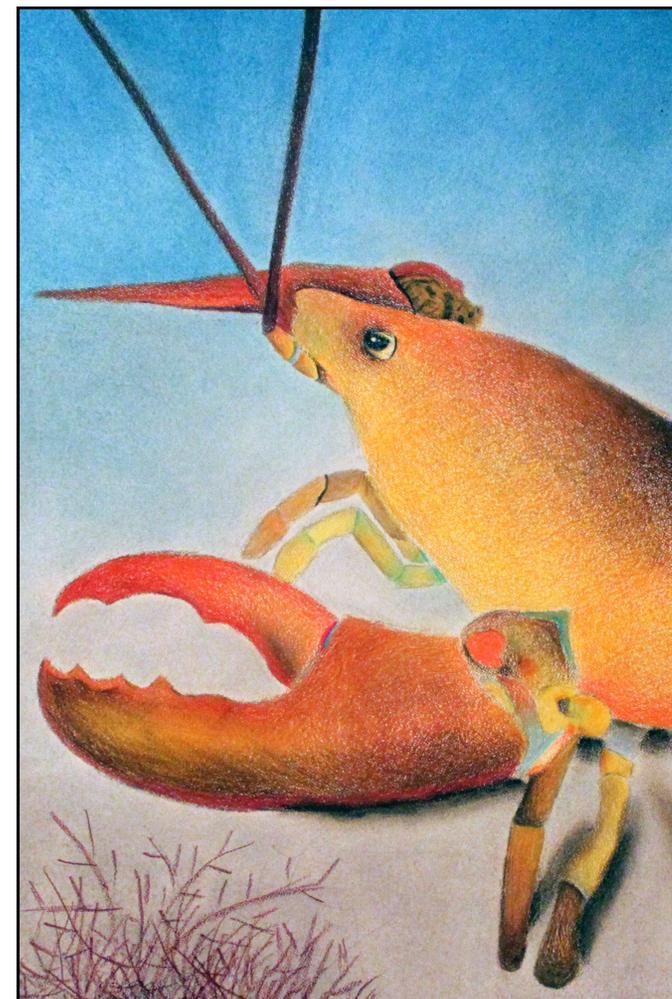


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MAY 2015

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(Above) *American Lobster* by Eileen S., gr. 8, Clague MS, Ann Arbor, MI



MIXED DIVISIONS (left to right):
Green Sea Turtle by Emma F., gr. 7, Fowler MS, Maynard; *Wolffish* by Joshua B., gr. 2, Nathaniel Morton Elementary School, Plymouth; *Copepod* by Sage M., gr. 8, Provincetown Schools; *Jellyfish* by Kerri B., gr. 5, Carroll School, Waltham

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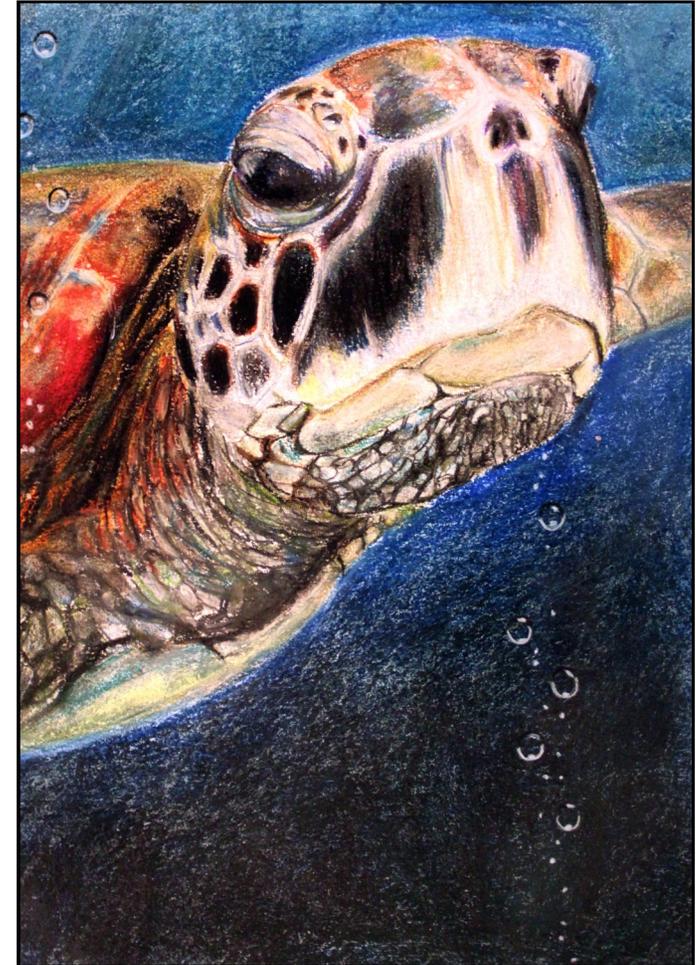


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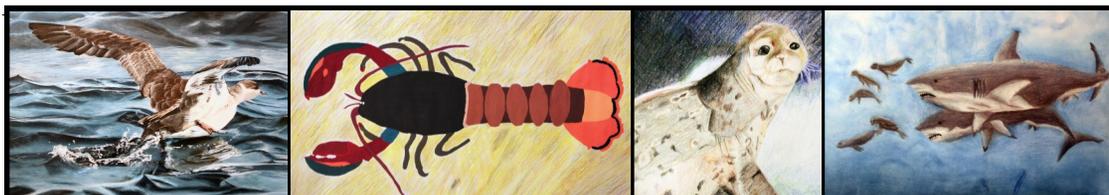
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JUNE 2015

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(Above) *Green Sea Turtle* by Claire M., gr. 7, Jonas Clarke MS, Lexington



MIDDLE SCHOOL DIVISION (left to right):
Great Shearwater by Daniel X., gr. 8, Marshall Simonds MS, Burlington;
American Lobster by Kaitlyn F., gr. 6, Marshall Simonds MS, Burlington;
Harbor Seal by Daphne L..., gr. 7, Jonas Clarke MS, Lexington; *White Sharks and Harbor Seals* by Weix X..., gr. 7, Slauson MS/Art Corner, Ann Arbor, MI

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JULY 2015

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(Above) Loon by Emily Nickerson, gr. 11, Plymouth South HS



HIGH SCHOOL DIVISION (left to right):
Razorbill by Isabelle Pardew, gr. 10, Loch Raven HS, Towson, MD; *Green Sea Turtles* by Meghna Tummala, gr. 9, Washtenaw International HS, Ypsilanti, MI; *Mako Shark* by Kyle Gilmore, gr. 9, Nauset Regional HS; *Northern Gannets* by Brianna Bussiere, gr. 11, Norfolk County Agricultural HS, Walpole

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AUGUST 2015

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(Above) Harbor Seals by Gigi C., gr. 4, Hunnewell Elementary School, Wellesley



ELEMENTARY SCHOOL DIVISION (left to right):
Atlantic White-Sided Dolphins by Ella S., gr. 4, Art Corner, Ann Arbor, MI; *Moon Jellyfish* by Mira G., gr. 4, Lesley Ellis School, Arlington; *Bluefin Tuna and Mackerel* by Liam E., gr. 4, Antioch School, Fall River; *Humpback Whale and Sand Lance* by Robert E., gr.K, Provincetown Schools

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SEPTEMBER 2015

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(Above) *Common Eider* by Arianna Griffin, gr. 12, Plymouth South HS



SCIENTIFIC ILLUSTRATION DIVISION (left to right):
Northern Puffer by Edward E., gr. 6, Pierce MS, Milton; *Copepod* by Michael N., gr. 5, Provincetown Schools; *Harbor Seals* by Irene Qi, gr. 10, Art Corner, Ann Arbor, MI; *Sea Turtle* by Quinn W., gr.8, Plymouth South MS.

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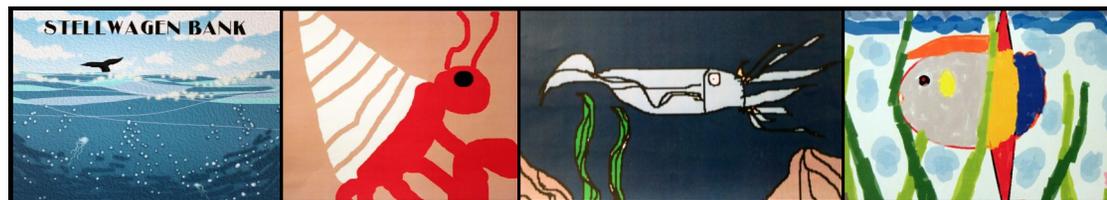
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OCTOBER 2015

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18	19	20	21	22	23	24
25	26	27	28	29	30	31



(Above) *Humpback, Ship and Marine Life* by Jasmyne Dias, gr. 10, Old Colony Reg Voc Tech HS, Rochester



COMPUTER GRAPHICS DIVISION (left to right):
Sanctuary Scene by Lauren Thomas, gr. 11, Barnstable HS; *Acadian Hermit Crab* by Mya B., gr. 2, Nathaniel Morton Elementary School, Plymouth; *Squid* by Patrick V., gr. 2, Plymouth South Elementary School; *Ocean Sunfish* by Luke Barrows, gr. 11, Norfolk County Agricultural HS

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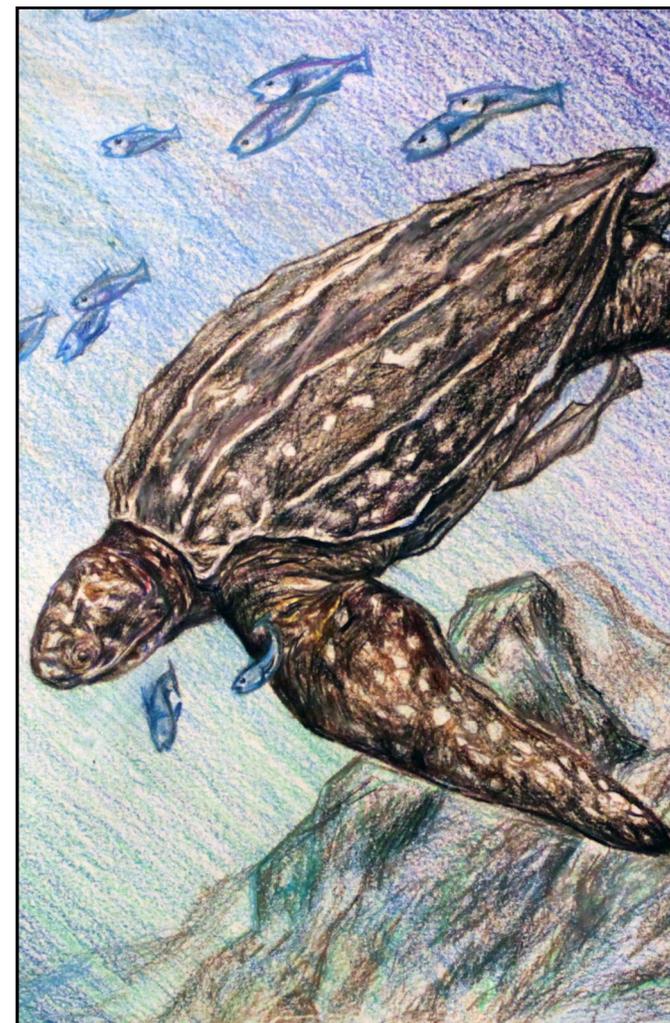


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NOVEMBER 2015

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(Above) *Leatherback Turtle* by Erik Z., gr. 7, Jonas Clarke MS, Lexington



MIDDLE SCHOOL DIVISION (left to right):
Atlantic White-Sided Dolphin by Mason D., gr. 5, Mastery School of Independent Learning, Fall River;
Ocean Sunfish by Bennett H., gr. 5, Eddy School, Brewster;
Gelatinous Zooplankton by Hannah R., gr. 7, William Diamond MS, Lexington;
Yellowtail Flounder by Annabelle C., gr. 8, Central Tree MS, Rutland

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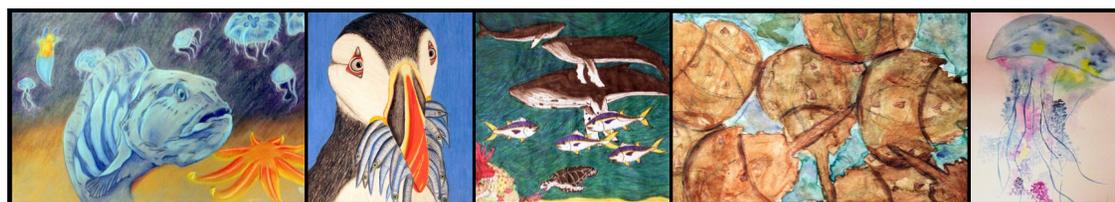
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DECEMBER 2015

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13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		



(Above) Northern Fulmar by Rachel Budnick, gr. 10, Nauset Regional HS



HIGH SCHOOL DIVISION (left to right):
Wolffish with Jellies, Smooth Sunstar and Sea Butterfly by Saiya Rivera, gr. 9, Greater Lawrence Tech School, Andover; *Atlantic Puffin and Sand Eels* by Elizabeth Salomaa, gr. 11, Chelmsford HS; *Sanctuary Scene* by Taylor Onessimo, gr. 11, Norfolk County Agricultural HS; *Horseshoe Crabs* by Rebecca Dawley, gr.9, Nauset Reg. HS; *Jellyfish* by Emily Clark, gr. 12, Nauset Reg. HS

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JANUARY 2016

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24	25	26	27	28	29	30
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(Above) Harbor Seal by Samantha H., gr. 1, Antioch School, Fall River



MIXED DIVISIONS (left to right):

Atlantic Puffin by Erik Z., gr. 7, Jonas Clarke MS, Lexington; 2-parts — Dolphin and Right Whale (left) Squid, Jellies and Leatherback Turtle (right) by Jamison D., Nicholas E. and Jack V., gr. 6, Antioch School, Fall River; Fishes, Crabs and Dolphin by Connor L., gr. K, Beechwood Knoll Elementary School, Quincy; Herring Gull and Chick by Sarah G., gr. 1, Lilja School, Natick

STELLWAGEN BANK
 NATIONAL MARINE SANCTUARY
<http://stellwagen.noaa.gov>

MASSACHUSETTS
 MARINE EDUCATORS
<http://www.massmarineeducators.org>

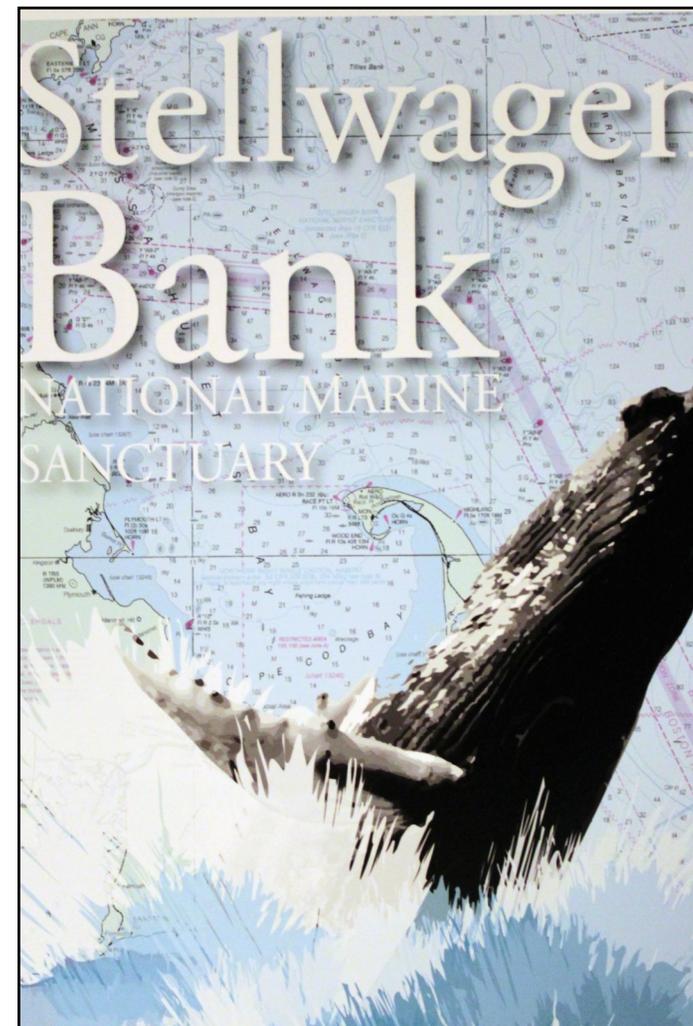


Winning art from the
 2014 MME Marine Art Contest

AMAZING OCEAN CREATURES OF STELLWAGEN BANK NATIONAL MARINE SANCTUARY

FEBRUARY 2016

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					



(Above) *Humpback Breach* by Josh Brooks, gr. 12, Barnstable HS



COMPUTER GRAPHICS (left to right):
Whale Tail by Brenna Cote, gr. 12, Old Colony Reg Voc Tech HS, Rochester;
Ocean Sunfish and Jellies by Morgan Furtado, gr. 11, Old Colony Reg Voc Tech HS;
Octopus by Jasmyne Dias, gr. 10, Old Colony Reg Voc Tech HS; *Squid* by Marissa Machado, gr. 10, Old Colony Reg Voc Tech HS

ART CONTEST SPONSORS:
 Massachusetts Marine Educators
 New England Aquarium
 Provincetown Center for Coastal Studies
 Whale and Dolphin Conservation
 Stellwagen Bank National Marine Sanctuary

2015 MARINE ART CONTEST



AMAZING OCEAN CREATURES OF
 STELLWAGEN BANK
 NATIONAL MARINE SANCTUARY

DEADLINE: MAY 1, 2015

For more information:

<http://www.massmarineeducators.org>
<http://stellwagen.noaa.gov>
 Email: anne.smrcina@noaa.gov

Massachusetts Marine Educators and co-sponsors invite students to participate in the 2015 Marine Art Contest. The theme is “*Amazing Ocean Creatures of Stellwagen Bank National Marine Sanctuary: Celebrating the marine biodiversity of New England’s national marine sanctuary.*”

REQUIREMENTS:

- Make sure that all artwork depicts species that are found in Stellwagen Bank National Marine Sanctuary/Gulf of Maine.
- Entries should be no smaller than 8”x10” and no larger than 18”x24”.
- White, non-glossy paper is recommended — please do NOT laminate and try to keep artwork flat and uncreased.
- Label each entry on the back with student’s name, age, grade, school, school address, school phone number, teacher’s name and teacher’s email address or use the official entry form. On a separate line write the name(s) of the animal(s) illustrated in the artwork.
- For individual entries (not associated with a school program) include home address/email/phone for correspondence purposes.
- DEADLINE — Friday, May 2, 2014
 Deliver in person to: MME Marine Art Contest c/o Stellwagen Bank National Marine Sanctuary 175 Edward Foster Road, Scituate, MA 02066 or postmark (1st class mail) by deadline date.

DIVISIONS:

- Elementary School — Grades K-4
- Middle School — Grades 5-8
- High School — Grades 9-12
- Scientific Illustration — All Grades
- Computer Graphics & Photography — All Grades

PRIZES:

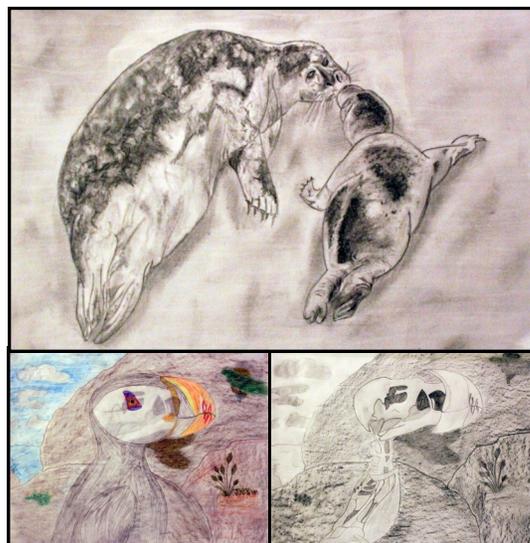
- 1ST Place: \$50 cash award, 4 NE Aquarium passes, certificate.
- 2nd Place: \$30 cash award, 2 NE Aquarium passes, certificate.
- 3rd Place: \$15 cash award, 2 NE Aquarium passes, certificate.
- 4th-6th Places: certificate.

SPECIAL AWARDS (\$20 each):

- MME/Joseph McQuade Memorial Award for Seabird Art
- Whale and Dolphin Conservation Award for Marine Mammal Art
- New England Aquarium Award for Fish Art
- Provincetown Center for Coastal Studies Award for Sea Turtle, Invertebrate or Plankton Art
- Stellwagen Bank National Marine Sanctuary



(Above — clockwise from top left): *Hermit Crab* by Maria C., gr. 1, Lilja School, Natick; *Sand Dollar and Shells* by Stella B., gr. 3, Lesley Ellis School, Arlington; *Northern Fulmar (internal view)* by Maggie Chipman, gr. 12, Nauset Reg HS; *Black Sea Bass* by Evan L., gr. 8, Plymouth South MS; *Horseshoe Crabs* by Lucas K., gr. 7, Fowler MS, Maynard; *Wolf fish* by Oliver D., gr. 4, Oak Bluffs School, Martha’s Vineyard



(Above — clockwise from top): *Harbor Seals* by Adih K., gr. 7, William Diamond MS, Lexington; *Atlantic Puffin (internal cutaway view)* and *Atlantic Puffin* by Ben Morton, gr. 11, Norfolk County Agricultural HS

Sponsors:

Massachusetts Marine Educators
New England Aquarium
Provincetown Center for Coastal Studies
Whale and Dolphin Conservation
Stellwagen Bank National Marine Sanctuary



ENTRY FORM FOR 2015 MME MARINE ART CONTEST

AMAZING OCEAN CREATURES OF
STELLWAGEN BANK
NATIONAL MARINE SANCTUARY

DEADLINE: MAY 1, 2015

Submission of this entry gives the sponsoring organizations all rights to use the artwork for non-commercial purposes, in products that serve as fundraisers for the nonprofit sponsors and to promote and publicize the contest and traveling exhibition of winning art. Any use of artwork will be accompanied by credit to the student and school. Credit for high school art will include the student's full name. For grades K-8, students will be identified by school and first name/last initial only. All winning artwork and honorable mentions will be posted on the sanctuary website. Sponsors will attempt to return all artwork in a timely fashion. Personal information on this form will be kept securely and not released to any outside individual or organization.

Send entries to:

MME Marine Art Contest
c/o Anne Smrcina
Stellwagen Bank National Marine Sanctuary
175 Edward Foster Road
Scituate, MA 02066

Phone — 781-545-8026 ext. 204
Email — anne.smrcina@noaa.gov

FOR STUDENTS ENTERING THROUGH THEIR SCHOOLS:

Student Name: _____

Age: _____ Grade: _____

School: _____

Teacher's Name: _____

Teacher's E-Mail: _____

School Address: _____

School Phone Number: _____

Name(s) of animal(s) pictured in artwork: _____

Scientific names of species (optional): _____

FOR HOMESCHOOL OR INDIVIDUAL ENTRIES:

Student Name: _____

Age: _____ Grade: _____ Homeschool: [] Individual Entry: []

School: _____

Parent/Guardian Name: _____

Parent/Guardian E-Mail: _____

Home Mailing Address: _____

Parent/Guardian Phone Number: _____

Name(s) of animal(s) pictured in artwork: _____

Scientific names of species (optional): _____

For more information about the annual marine art contest,
go to the following websites:

<http://www.massmarineeducators.org>

<http://stellwagen.noaa.gov>

or send an email to:

anne.smrcina@noaa.gov



Great Shearwater by Daniel X., Marshall Simonds MS, Burlington