Amaranta's Bio-Blitz

Buena Vista Audubon
Nature Center and Grounds
and
Buena Vista Lagoon Ecological Reserve

April 29/30

Amaranta's Bio-Blitz

at the Buena Vista Lagoon

April 29/30, 2016

This Bio-Blitz survey of the plants and animals living on the grounds of the Buena Vista Audubon Nature Center and within the adjacent Buena Vista Lagoon Ecological Reserve was conducted as a special tribute to Amaranta Kozuch.

Amaranta was a bright and caring person, with a passionate love of Nature. She was a research technician for the San Diego Zoo's Institute for Conservation Research, and a volunteer Nature Guide for Buena Vista Audubon Society. Amaranta was only 29 years old when she was tragically killed in a traffic accident in December, 2014.

Amaranta's colleagues at the Zoo and her family at BVAS came together on this weekend, to experience the beauty and wonder of Nature as Amaranta would have done, and to remember the goodness and grace of a special friend.

Amaranta's Bio-Blitz

Live Trap Results

House Rat *Rattus rattus*

Song Sparrow

House Mouse

Mus musculus

SPECIES SEEN
From 4/29/2016 to 4/30/2016 ~ in BVAS; BV Lagoon ~ 59 seen

GREBES
- Pied-billed Grebe
- Eared Grebe
- Western Grebe
- Clark's Grebe

CORMORANTS
- Double-crested Cormorant

PELICANS
- Brown Pelican

DUCKS, SWANS, GEESE
- Ruddy Duck
- Mallard

HERONS, EGRETS AND BITTERNS
- Snowy Egret
- Great Blue Heron
- Great Egret
- Least Bittern

HAWKS, EAGLES AND KITES
- Cooper's Hawk
- Red-shouldered Hawk
- Red-tailed Hawk

RAILS AND COOTS
- Clapper Rail
- Common Moorhen
- American Coot

PLOVERS AND LAPWINGS
- Killdeer

GULLS AND TERNS
- Ring-billed Gull
- California Gull
- Western Gull
- Caspian Tern
- Elegant Tern
- Forster's Tern

PIGEONS AND DOVES
- Rock Dove
- Eurasian Collared-Dove
- Mourning Dove

PARROTS
- Red-crowned Parrot

SWIFTS
- Vaux's Swift
- White-throated Swift

HUMMINGBIRDS
- Anna's Hummingbird
- Allen's Hummingbird

WOODPECKERS
- Nuttall's Woodpecker

TYRANT FLYCATCHERS
- Say's Phoebe
- Black Phoebe
- Cassin's Kingbird

CROWS AND JAYS
- Western Scrub-Jay
- American Crow
- Common Raven

MOCKINGBIRDS AND THRASHERS
- Northern Mockingbird

STARLINGS
- European Starling

WRENS
- Marsh Wren

LONG-TAILED TITS
- Bushtit

SWALLOWS
- Tree Swallow
- Violet-green Swallow
- Northern Rough-winged Swallow
- Barn Swallow
- Cliff Swallow

OLD WORLD SPARROWS
- House Sparrow

SISKINS, CROSSBILLS AND ALLIES
- Lesser Goldfinch
- House Finch

NEW WORLD WARBLERS
- Townsend's Warbler
- Common Yellowthroat

BUNTINGS, SPARROWS, TANAGERS, ALLIES
- Song Sparrow
- California Towhee

BLACKBIRDS, GRACKLES, ORIOLES
- Hooded Oriole
- Red-winged Blackbird
- Great-tailed Grackle

--------- STATISTICS ---------

Species seen - 59

Amaranta's Bio-Blitz—Plant List

Acanthaceae (Acanthus Family)

Mexican Elderberry	*Sambucus nigra (S. Mexicana)*

Anacardiaceae (Sumac Family)

Laurel Sumac	*Malosma laurina*
Lemonadeberry	*Rhus integrifolia*
Sugarbush	*Rhis ovata*
Brazilian Pepper Tree	*Schinus terebinthifolius*

Araceae (Duckweed Family)

Duckweed	*Lemna sp*.

Arecaceae (Palm Family)

Mexican Fan Palm	*Washingtonia robusta*

Asteraceae (Sunflower Family)

California Sagebrush	*Artemisia californica*
Coyote Bush	*Baccchris piluaris*
	(Note: with gall-making midge—Rhopalosomatid californica)
Mule Fat	*Baccharus salicifolia*
California Bush Sunflower	*Encelia californica*
San Diego Goldenbush	*Isocoma menziesii*
Arrow Weed	*Pluchea sericea*
Western Ragweed	*Ambrosia psilostachya or confermof;pra*
Telegraph Weed	*Heterotheca grandiflora*
Brass Buttons	*Cotula coronopifolia*
Garland chrysanthemum	*Glebionus corongria*
Crown Daisy	*Chrysanthemum coronarium*
Salt Marsh Fleabane	*Pulchea orodata*
California Everlasting	*Gnaphalium californicum*
Stinknet	*Oncosiphon pilvliferum*
California Everlasting	*Gnaphalium*

Aizoaceae (Fig-Marigold Family)

Iceplant	*Carpobrotus edulis*

Apiaceae (Carrot Family)

Wild Celery	*Apium graveolens*
Sweet Fennel	*Foeniculum vulgare*

Apocynaceae (Dogbane Family)

Narrow-leaf Milkweed	*Asclepias fascicularis*

Berberidaceae (Barberry Family)

Nevin Barberry	*Berberis nevinii*

Boraginaceae (Borage Family)

Salt Heliotrope	*Heliotropium curassavicum*

Brassicaceae (Mustard Family)

Black Mustard	*Brassica nigra*
Mustard	*Brassica rapa*
Wild Radish	*Raphanis sativa*
London Rocket	*Sisymbrium irio*

Chenopodiaceae (Goosefoot Family)

Big Saltbush	*Atriplex lentiforumis*
Australian Salt Bush	*Atriplex semibaccata ?*

Cleomaceae (Cleome Family)

Bladderpod	*Peritoma arborea*

Crassulaceae (Stonecrop Family)

Jade	*Crassula ovata*

Cyperaceae (Sedge Family)

Bulrush	*Schoenoplectus californica*
	Carex sp.

Euphorbiaceae (Spurge Family)

Castor Bean	Ricinus communis

Fabaceae (Pea Family)

Coastal Wattle	*Acacia cyclops*
Yellow Sweet Clover	*Melilotus indica*
Deerweed	*Acmispon glaber*
White Sweet Clover	*Melilotus alba*

Fagaceae (Oak Family)

Coast Live Oak	*Quercus agrifolia*

Frankeniaceae (Frankenia Family)

Alkali-Heath	*Frankenia salina*

Chenopodiaceae (Goosefoot Family)

Pickleweed	*Salicornia pacifica or virginica*

Juncaceae (Rush Family)

Spiny Rush	*Juncus acutus*

Lamiaceae (Mint Family)

White Sage	*Salvia apiana*
Cleveland Sage	*Salvia clevelandii*
Black Sage	*Salvia mellifera*

Malvaceae (Mallow Family)

Alkali Mallow	*Malvella leprosa*
California Avenia?	*Avena sp.*
Bushmallow	*Malacothamnus fasciculatus*

Myrsinaceae (Myrsine Family)

Scarlet Pimpernel	*Anagallis arvensis*

Myrtaceae (Myrtle Family)

Eucalyptus	*Eucalyptus camaldulensis*

Onagraceae (Evening-Primrose Family)

Marsh Primrose	*Oenothera elata*

Oxalidaceae (Oxalis Family)

Bermuda Buttercup	*Oxalis pes-caprae*

Papaveraceae (Poppy Family)

Matilija Poppy	*Romneya coulteri*

Pinaceae (Pine Family)

Torrey Pine	*Pinus torreyana*

Platanaceae (Sycamore Family)

Western Sycamore	*Platanus racemose*

Poaceae (Grass Family)

Red Foxtail	*Bromus mapritensis ssp. Rieens?*
Salt Grass	*Dishchlis spicata*
Bermuda Grass	*Cynodon dactylor*
	Lolium perenne
Rabbit's foot grass	*Polypogon manspeliensis*

Plantaginaceae (Plantain Family

Sea Lavender	*Limonium perezii*

Plumbaginaceae (Leadwort Family)

Sea Lavender	*Limonium perezii*
English Plantain	*Plantago lanceolata*

Poaceae (Grass Family)

Bermuda Grass	*Cynodon dactylon*
Wild Oats	*Avena fatua*

Polygonaceae (Buckwheat Family)

California Buckwheat	*Eriogonum fasululkata*
St. Anne's Lace	*Eriogonum gigantium*

Primulaceae (Primrose Family)

Scarlet Pimpernel	*Anagallis arvensis*

Rosaceae (Rose Family)

Mountain Mahogany	*Cercocarpus betuloides*
Toyon	*Heteromeles arbutifolio*
Catalina Cherry	*Prunus ilicifolia*
California Rose	*Rosa californica*

Salicaceae (Willow Family)

Western Cottonwood	*Populus fremontii*
Arroyo Willow	*Salix lasiolepis*

Scrophulariaceae (Figwort Family)

Mousehole Tree	*Myoporum laetum*

Solanaceae (Nightshade Family)

Tree Tobacco	*Nicotiana glauca*

Tamaricaceae (Tamarix Family)

Salt Cedar	*Tamarix*

Tropaeolaceae (Nasturtium Family)

Nasturtium	*Tropaeolum majus*

Typhaceae (Cat-tail Family

Southern Cattail	*Typha domingensis.*

--82 Species

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Insects --43 species

Aphid	*Aphididae*
Argentine ants	*Linepithema humile*
European honey bee	*Apis mellifera*
Wooly darkling beetle	*Cratidus*
Dark-winged beetle	*Tenebrionidae (f)*
Beetle fungus	*Mycetophagidae (f)*
Damselfly (forktail)	
May fly	
Small milkweed bug	
Ladybird beetle—unspotted	*Cycloneda (sp.)*
Ladybird beetle	Hippodam convergens
Spittlebug	*Aphrophora permutata*
Live oak gall fly	
Scale	*Diaspididae*
Brown soft scale	D*iaspididae coccidaet*
Sand wasp	
Springtail	
Wooly darkling beetle	
Plant beetle	*Dascilloidea*
Fungus beetle	*Cullibetis*
Carpet beetle	*Permestide (f)*
Scarab beetle sp.	*Scarabaedae*
Scarab beetle	*Rhopalomyia californica*
Small wasp (on Baccaris)	*Rhopalo*
Cabbage butterfly	*Pieridae (f)*
Monarch butterfly	
Mourning cloak butterfly	
Sienna sulphur butterfly	
Midge	*Chironomidae (f)*
Mosquito	*Culicidae (f)*
Punkie	
Crane fly	*Ptychopteridae (f)*
Spittlebug	*Aphrophoridae (f)*
Red-winged grass Cicada	*Cicadidae (f)*
Willowleaf sawfly	*Pontaria pacifica*
Calif. Oak gall wasp	*Andricus californicus*
Harlequin cabbage bug	*Murgantia histrionica*
Cricket field	*Gryllinae*
Cockroach	*Blatlidae (f)*
Earwig	
Centipede	
Sow bug	
Spider	

Mammals—5 species

California ground squirrel	
Rat	*Ratus ratus*
Marsh cottontail	
House mouse	*Musculus*
Opposum	

Other Misc. Animals—7 species

Bullfrog
Western fence lizard
Western pond turtle
Red slider turtle
Mosquito fish
Snail
Crawfish

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Background: Amaranta's Bio-Blitz is being conducted as a special tribute to Amaranta Kozuch, a research technician for the San Diego Zoo's Institute for Conservation Research and a volunteer Nature Guide for Buena Vista Audubon Society. Amaranta was only 29 years old when she was tragically killed in a traffic accident in Dec. 2014. Amaranta's colleagues at the Zoo and her friends at BVAS are joining together to conduct this Bio-Blitz in her memory.

Date and time: 24-hours—From Friday, April 29, 1 p.m., to Saturday, April 30, 1p.m.

***Weeklong plant surveying allowed--**While most of the survey will take place on April 29/30, those surveying for plants will have the full week leading up to the Bio-Blitz to conduct their field work, beginning Friday, April 22, at 1 p.m.

***Friday night surveying and camp site--**We've purposely scheduled the event to include Friday evening and night, so we could conduct some night-time surveying. Some of Amaranta's friends and colleagues are planning on spending Friday night listening for owls, monitoring some "camera traps" for nighttime foraging critters, and perhaps setting up a white sheet and floodlight to collect insects. Some may be using the Nature Center as a secure, inside "camp site" for the night. If you think you might also be interested in utilizing the Nature Center that Friday night, please contact us to make arrangements.

Home Base: Buena Vista Audubon Nature Center; 2202 So. Coast Blvd., Oceanside

***Territory Covered:** The grounds of the BVAS Nature Center and the 3.5-acre "BVAS Wetlands Reserve" property across So. Coast Blvd. from the Nature Center. We will also be accepting survey data from anywhere within the boundaries of the Buena Vista Lagoon Ecological Reserve.

Taxa to be Surveyed: All species of living plants and animals are fair game for this Bio-Blitz. That includes native and non-native species, but not species directly planted or currently under cultivation by man. We do not expect complete coverage of all taxa, of course, but hope all major families are represented in the survey. We invite multiple observers within any particular area of interest, and will

be combining the results to compile a composite list. Please submit your list, as modest as it might be in your eyes. You may have been the only observer to record an otherwise common species!

Survey Protocol: This is a Bio-Blitz and is more about having fun than conducting a controlled scientific study. Despite the informal nature of this survey, however, we would still like it to be as complete and accurate as possible. It is up to you to decide what, where, and when you would like to survey, given the time and location parameters outlined above. You may do your survey work alone, with a partner, or as a member of a larger group. The more the merrier—you are encouraged to recruit your peers to join your survey team, or maybe form their own in their particular area of expertise. Bring your own reference books to help with problematic IDs. (We'll have a number of basic guide books on hand at the Nature Center.) Please take photos to help confirm a difficult ID, document a rare or endangered species, or record an interesting or particularly aesthetic sighting. Keep a complete checklist of the species you observe, noting both scientific and common names when possible. Please make a note of significant observations of plants or animals that are not your particular survey target. Keep in mind that you will be surveying adjacent to or within a state ecological reserve, there are a number of federal and state-listed species of special concern in this habitat, and that this is breeding season for many species. Please do not collect plant or animal specimens from within the reserve. Be careful to not disturb nesting species.

Submitting your Results: Survey results can be turned in to the Bio-Blitz table at the Nature Center. Please include the names and email addresses of all who participated in your survey. We would like to receive your survey results by Saturday, April 30, at 1 p.m., if at all possible. If you can't compile your survey results by that time, please email your report to Andy Mauro (akamauro1@gmail.com) as soon as possible. We will be running a preliminary tally of Bio-Blitz results at the Bio-Blitz luncheon.

> ***Bio-Blitz Report:** We will be issuing a final Bio-Blitz Report after receipt and compilation of the survey results. The report will include a list of all participants and their survey assignments.

Bio-Blitz Luncheon:
BVAS will be hosting a simple luncheon for participants on Saturday, April 30, Noon-1 pm. We'll provide an entrée item (vegan chili?) and drinks. Feel free to bring your own brown bag if you prefer, or a group dish to share (only if you wish.)

Contacts:

> ***Andy Mauro** (BVAS)—Bio-Blitz Coordinator.
> **Akamauro1@gmail.com**
> **760-753-1266 (Home)**
> **760-636-9075 (Cell)**
>
> ***Susanne Marczak** (SD Zoo Institute for Conservation Research)—Bio-Blitz Organizer
> **smarczak@sandiegoool.org**
>
> ***BVAS Nature Center—Bio-Blitz Home Base**
> **2202 South Coast Hwy.; Oceanside, CA**
> **760-439-2473**
> **bvaudubon@sbcglobal.net**

Questions? Please feel free to call or email Andy Mauro with any questions or requests for additional information. The BVAS Nature Center will be open on Friday, April 29, from 10 a.m. – 4 p.m., and on Saturday, April 30, from 8 a.m. – 4 p.m. Additional off-hours access to the Nature Center and grounds during the 24-hour Bio-Blitz period may be available by special arrangement.