### **UC Santa Barbara**

#### **Newsletters**

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NCOS News - August 2018

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## UC **SANTA BARBARA**

### **North Campus Open Space Restoration Project**

**NCOS** NEWS

August 2018



Composite aerial image of NCOS on August 7 by Bill Dewey. Note that almost the entire primary trail is visible.

#### **UPDATES**

United Way Day of Caring - September 15th



Saturday, September 15th 9:00 AM - 12:00 PM

This year's United Way Day of Caring features the North Campus Open Space Restoration Project! Mark your calendar and <u>sign-up with the UCSB Team for planting at NCOS</u>, 9:00 AM to 12:00 PM, Saturday, September 15th. Sign up by September 7<sup>th</sup> to receive <u>a free Day of Caring t-shirt and a UCSB baseball cap</u> (donated by the UCSB Bookstore)!

#### Planted plants aplenty, and plenty more to come

After focusing on controlling weeds in May and June, restoration efforts returned to planting in July. You may recall that the landmark of 100,000 plants installed was reached in April. As of July 31, this number has grown to more than 146,000. More than 32,000 plants were installed in July alone, equating to more than 1,000 plants planted per day! In addition, since last September, 137 saplings of native oak, willow, cottonwood, alder and sycamore trees have been planted by <u>Your Children's Trees</u> along the Whittier and

Phelps Riparian areas.

The area planted at this point is approximately 39.8 acres, which is half of the total area to be planted! Who is behind these numbers? - an average of 40 paid UCSB students per quarter working 10 - 20 hours per week since last Fall, along with many more volunteers, and a dozen CCBER staff.



Map of NCOS habitats with the approximate area planted as of July 31st shaded in bright green.

#### "Gator Barn" Construction

The construction of a "Gator Barn" in the northeast corner of NCOS will begin this summer. The Gator Barn will be used for storing and charging electric utility vehicles called Gators, which are green in color but bear no other resemblance to the animal they're named after. The barn will also be used for the storage of tools and a variety of equipment for management, monitoring and research.



A rendering (by Brett Ettinger of Ferguson Ettinger Architects, Inc.) of the "Gator Barn" to be constructed on NCOS.

#### As built Report with Before and After Photos

Interested in some of the details about the construction of NCOS? A report about the as-built grading and hydrology of the restoration project site is now available on the <a href="https://www.ucsa.com/wcsa.com





View west from the southeast corner of NCOS in April 2017 - before grading (top image), and in July 2018 (bottom image).

#### Second Saturday - August 11th!

Take part in an opportunity to get on the project site and help restore NCOS **THIS SATURDAY - August 11th, 9:30 am.** Meet at the parking lot on Whittier Drive at 9:30 am. Please RSVP to <a href="mailto:ncos@ccber.ucsb.edu">ncos@ccber.ucsb.edu</a>. See the Volunteer Opportunities section of this newsletter for more information.

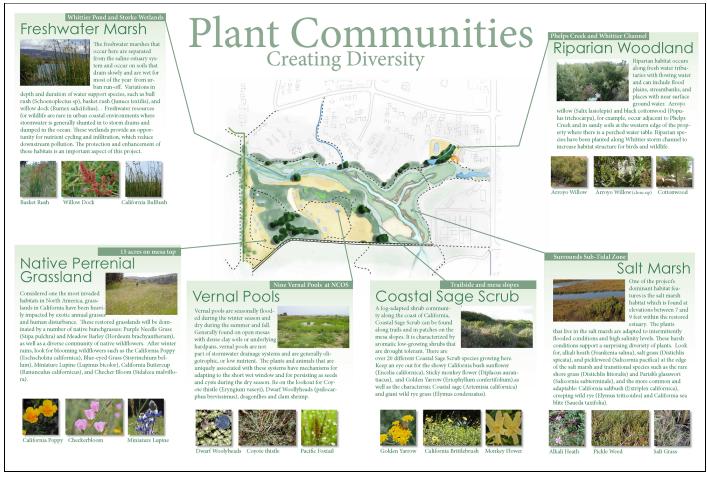


#### Creek Week Tour - September 21st

As part of Santa Barbara County's 19th annual <u>Creek Week</u>, we will be hosting a tour of NCOS on Friday, September 21, at 5:15 pm. The tour is open to the public. Meet at the parking lot on Whittier Drive.

#### **FEATURE STORY**

What are you Curious About at NCOS?



A draft version of one of the interpretive signs currently being designed for the visitor plaza and other areas of NCOS.

California State Parks has recently awarded a grant to CCBER for the construction of a Visitor Plaza at NCOS, along with an interpretive garden, viewpoint overlooks with benches, and a variety of interpretive signs. We would like to invite you to <u>review some of our draft interpretive signs</u>, and more!

This feature story is continued on page 11.

#### **VOLUNTEER OPPORTUNITIES**



### Second Saturdays at NCOS

#### **SATURDAY - August 11th**

Take part in an opportunity to get on the project site and help restore NCOS. Meet at 6975 Whittier Drive at 9:30 am. Bring water, sunscreen, and wear a hat, clothes and shoes suitable for garden work. Please RSVP to

ncos@ccber.ucsb.edu

#### **Group Volunteer Opportunities**

We gladly welcome local business, non-profit, school and other community groups to come out to NCOS to help with planting and other activities. For more information, please send an email to ncos@ccber.ucsb.edu.





# Thursdays - CCBER Greenhouse Associates

Come help transplant seedlings of native plants with the CCBER team from 9:00 - 12:00. To join, please send an email to ncos@ccber.ucsb.edu.

#### **COMMUNITY FORUM & PHOTOS**

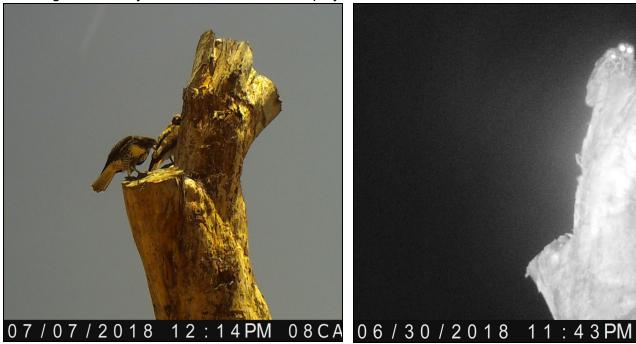
#### This month's bird photos - Cooper's Hawk, Redtails and Owls oh my!

Local ornithologist, Mark Holmgren, captured the following shots of a juvenile Cooper's Hawk perched on the railing of the new bridge crossing at Phelps Creek.





A motion detection camera caught a lot of action on a popular snag on NCOS last month, including a pair of adult and juvenile Redtailed Hawks and Great-horned owls. These individuals were photographed on the snag almost daily while the camera was deployed.





Have a plant, wildlife, or other photo of the NCOS project site you'd like to share? We welcome submissions of photos of the project site and/or the adjacent Ellwood-Devereux area to share with NCOS News readers. Please email a photo you would like to share along with a brief description to

#### Bee Identification Workshop at CCBER

Learn how to identify the common species of native bees of California at a workshop hosted by CCBER and UCSB Extension in September. See flyer below for more details.



# Learn how to identify the common species of the native bees of California

This is an intensive, three-day introduction to the identification of bees. We will focus on identifying common native bees to family and genus. Other topics we will cover include: learning how to preserve bee specimens for identification, how to become proficient using the keys for identification, as well as examining conservation biology and pollination ecology of bees.

#### Who should attend? People interested in learning about native bees!

- The workshop will be taught by Jaime Pawelek. Jamie is an alumnus of the Urban Bee Lab at the University of California, Berkeley and has authored several papers on bees and pollination.
- The course is appropriate for any person who is interested in learning the technical skills for identification of native bees, including curious naturalists, students, consultants, entomologists, and botanists.
- September 12th: Basic morphology of bees, bee specimen preparation, identification of Apidae of California
- September 13th: Identification of non-apid bees (Andrenidae, Colletidae, Halictidae, Megachilidae, Melittidae); attendees will share a group dinner in the evening
- September 14th: Continue identification of native bees working individually or in small groups
- The fee is \$200; UCSB graduate and undergraduate students will get a 40% discount if they enroll in person at Kerr Hall.

Register at https://extension.ucsb.edu (search XLRN 811.CCBER under courses tab)

Contact Katja Seltmann for further information at seltmann@ccber.ucsb.edu









# For more information on the North Coast Open Space Restoration Project, Click here, or email <a href="mailto:ncos@ccber.ucsb.edu">ncos@ccber.ucsb.edu</a>

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### WHAT ARE YOU CURIOUS ABOUT AT NCOS?

California State Parks has recently awarded a grant to CCBER for the construction of a Visitor Plaza at NCOS, along with an interpretive garden, viewpoint overlooks with benches, and a variety of interpretive signs. This grant comes just as Granite, the bridge and trail contractor, is completing their work. The visitor plaza will include information panels, shade and seating, and is designed to accommodate a wide range of users, including school groups, community members, UCSB students and researchers, and tourists. Considering this diverse audience and that the NCOS project site is still under construction, some of the signage is challenging to design due to the different interests of visitors and the likely future changes in how the restored ecosystem will function for wildlife as the plants grow. Another challenge is that, despite our familiarity with the goals and history of the project, we may not notice where there are missing links in the logic of information or in the background material. Therefore, we would like to invite you, as future users of the site, to review some of our draft interpretive signs, and to be involved in reviewing and developing signage and other interpretative features at NCOS in the coming months.

The proposed sign themes include the following:

- · Plant communities
- Wildlife
- Hydrology
- · Land Use History
- Climate change adaptation and Ecosystem benefits
- · Ethnobotany primarily Chumash use of native plants
- · Site Maps and place names
- Management and Use practices hours, dogs, on-going management activities
- · Acknowledgement of funders and donors

You may have other ideas about what we should interpret or how we should display or present it, and we welcome those questions and ideas. If you would like to participate, please contact us at <a href="mailto:ncoe@ccber.ucsb.edu">ncoe@ccber.ucsb.edu</a>.

To get an idea of what some of the signs might look like when they're complete and set-up, have a look at this <u>interactive</u> <u>map</u> that shows the locations of 20 of CCBER's interpretive signs around the UCSB campus that you can visit, along with links to an image of each sign.

Below are images of some of the DRAFT signs with links that you can read and review. We hope you will participate in helping make sure that our message is clear, and that the kind of questions different people may have will be answered in a natural, fun and informative way.

#### Whittier Pond and Storke Wetlands Freshwater Marsh



The freshwater marshes that occur here are separated from the saline estuary system and occur on soil of the work of the war from and occur on soil of the year from the saline estuary system and occur on soil of the year from the saline study in the saline showly and are wet for most of the year from the work of the year from what of the year from what is under the work of the year from what is greatly should not to storm drains and dumped in the ocean. These wetlands provide an opportunity for nutriest cycling and infiltration, which reduce downstream pollution. The protection and enhancement of these habitats is an important aspect of this project.







## Plant Communities Creating Diversity



#### Phelps Creek and Whittier Channel Riparian Woodland



us trichocarpa), for example, occur adjacent to Phelps Creek and in sandy soils at the western edge of the prop-erty where there is a perched water table. Riparain spe-cies have been planted along Whittier storm channel to increase habitat structure for birds and wildlife.







Surrounds Sub-Tidal Zone

15 acres on mesa top Native Perrenial

### Grassland



Considered one the most invaded habitats in North America, grass-lands in California have been heavily impacted by exotic annual grasses, and human disturbance. These restored grasslands will be dominated by a number of native bunchgrasses: Purple Needle Grass (Stipa pulchra) and Meadow Barley (Hordeum brachyantherum), as well as a diverse community of native wildflowers. After winter trains, look for blooming wildflowers such as the California Poppy (Eschscholza californica), Blue-eyed Grass (Sisyrinchium bell-ulm), Ministarte Lupine (Lapinus beloor), California buttercup (Ramucculus californicas), and Checker Bloom (Sidalcea malviflora).















supported at

North Campus
Open Space

This restoration project was designed to support a diverse state of animals by creating unique label and calculated by hydroday; stainty, slope, and soil texture. These makes apport specified will be considered by the communities and associated will diverse the communities and associated will diverse the communities and associated will diverse the communities and associated will be called on the communities and associated will be calculated on the communities and associated will be called on the communities are communities and associated will be called the communities are communities and associated will be called the communities are communities are communities.



A fog-adapted shrub community along the coast of California,
Coasta Sage Scrub can be found
along trails and in patches on the
meas alope. It is characterized by
aromatic low-growing shrubs that
are drought loterant. There are
over 20 different Coastal Sage Scrub species growing here.

When a meas cent for the above California bond anothers.

over 20 different Coastal Sage Scrus species growing nere. Keep an eye out for the showy California bush sunflower (Encelia californica), Sticky monkey flower (Diplacus auran-tiacus), and Golden Yarrow (Eriophyllum confertifolium) as well as the characterisic Coastal sage (Artemisis californica) and giant wild rye grass (Elymus condensatus).



One of the project's dominant habitat fea-tures is the salt marsh habitat which is found at elevations between 7 and 9 feet within the restored

Salt Marsh

9 feet within the term that live in the salt marsh are adapted to internitional that live in the salt marsh are adapted to internitional thousand to the salt marsh are adapted to internitional threat conditions support a surprising diversity of plants. Look or, alkali health (Frankenia salina), salt grass (Distchlis spicata), and prickleweed (Salicornia pacifica) at the edge of the salt marsh and transitional species such as the rare shore grass (Distchlis littoralis) and Parish's glasswort (Salicornia saltbush (Extriplex californica) and california saltbush (Extriplex california saltbush (Extriplex california sabite (Saucela taxtfolia)).







Raptors Found yearround



























#### Songbirds

























#### Invertebrates Yearround



Reptiles & Amphibians Wet Season/After Rain

# Look for lizards and snakes sunning themselves on logs or rocks in the open area or near the many hibernaculum created as part of the restoration process. During the wet season, listen for frogs at dawn and dusk, especially after a minstorm.





#### Threatened Species





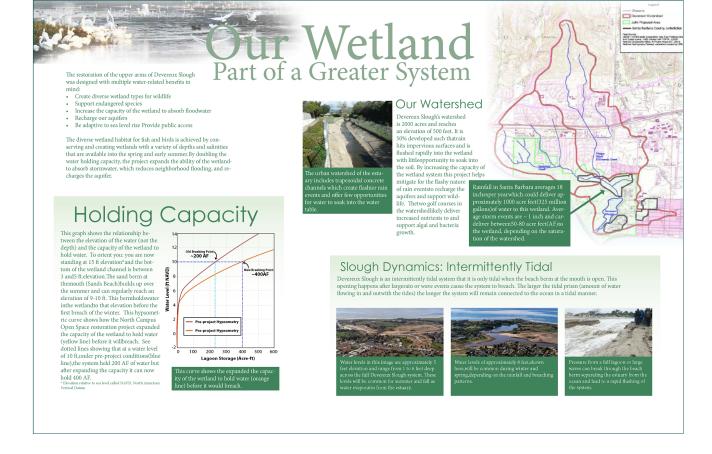


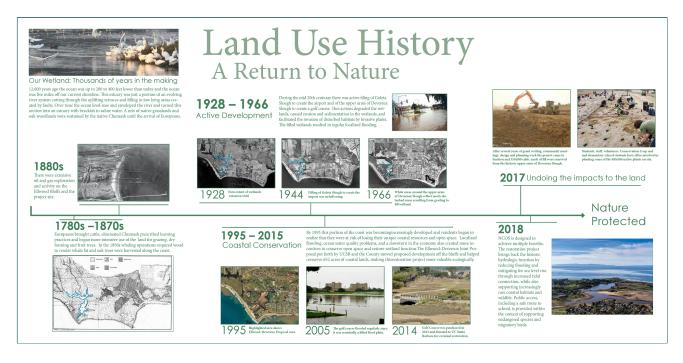












Tuesday, August 7, 2018 - 09:15

File:

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land\_use\_DRAFT3.pdf

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