

## Dedicated to the Preservation of California Native Flora The California Native Plant Society

Bristlecone Chapter Newsletter

Volume 45, No. 1 January–February 2024

**Bristlecone Chapter** 



#### Thanks for Joining our Annual Holiday Potluck and Presentation

We enjoyed good food, good company, and a great program at our December joint meeting with Eastern Sierra Audubon Society. Blake Engelhardt and Jon Knight, botanists with the U.S. Forest Service, shared flora and fauna highlights from the Inyo National Forest. They also shared a video on the ecology and current plight of the whitebark pine, a high elevation tree familiar to most of our members. Check it out!: https://www.allaboutbirds.org/news/can-theclarks-nutcracker-help-its-bff-the-whitebark-pinerecover-from-disaster?

—Kathleen Nelson

## A Range Extension in Inyo County

2023 was a remarkable year for many reasons.

One reason was a range extension recognized in large part due to observations made on iNaturalist. That biological database platform is something I highly recommend readers to avail themselves of. But that is another subject.

First, a bit of history. Back in 1944, Rupert Barneby collected some *Astragalus* plants along Death Valley Road in the Invo Mountains east of Big Pine. He subsequently described a new taxon: Astragalus *minthorniae* var. *villosus*. You can still find this plant along that road to this day, although a wetter year improves the odds. Up until this year (2023) it had not been found further north and west of the Death Valley Road. Come June 26 this year I was hiking up a narrow side canyon off the Westgard Pass Road. About a mile or so up this canyon I came across a healthy population of just that aforementioned *Astragalus*. I was not too surprised but unaware it had not been found in the White Mountains before. Jim Morefield, who has been studying the flora of the White Mountains alerted me to this range extension after seeing my iNat observation.

#### https://www.inaturalist.org/observations/1696643 60

A more scientific piece of evidence for the presence of this taxon at that location is a voucher, a pressed specimen of the plant to be housed in an institutional herbarium. Suitably motivated, we returned to the salient locale to collect specimens. These now reside in the University of Nevada Reno Herbarium.

A 10-mile range extension may not be all that significant but, to some, this was an exciting discovery and worthy of some great days in the field. (I have included some images here to illustrate what this plant looks like.)

Another reason that makes this year remarkable was a second range extension. This extension was also precipitated by an observation on iNaturalist.



https://www.inaturalist.org/observations/1713330 84

In this case the observation of *Phacelia barnebvana* (Barneby's phacelia) was not made by me but by Chloe and Trevor Van Loon. They made this observation on a limestone ridge just east, and across the road from Grandview Campground. Once again, Jim Morefield, always alert to new taxa in the White Mountains, woke me from my slumber and pitched me on a visit to this location to collect a voucher specimen. So, off we went.

We had good GPS coordinates to aid us in seeking out this plant. However, this plant does not advertise itself in any dramatic fashion. In fact, it was so small and few in number, hiding amongst the pine needles, that finding it proved challenging. Ultimately that challenge was surmounted, the population was found, photographed and vouchered.

The range extension is approximately 40 miles north from known collections in the Inyo Mountains. This species was described in 1943 by John Thomas Howell who named it after Rupert Barneby, the fellow who described the previously-mentioned Astragalus.

-Steve Matson

### Milkweeds—More than Monarch **Butterflies**

Milkweed and monarchs are in a coevolutionary relationship central to the survival of both species. Monarchs are pests of milkweed and milkweeds have evolved mechanisms to defend against monarch caterpillars. However, milkweeds have additional concerns. There is a community of at least 11 species of insects that feed on them, comprised of seed eaters, suckers, chewers, miners, and borers. Also, other insects and arthropods take nectar from and rest on the flowers, and some even prey upon the insects that live on milkweed. We see monarch caterpillars, if we are lucky, chewing on our garden milkweed (Fig. 1). There's also the four-eyed red milkweed beetle (Tetraopes femoratus) who's antennae bisect their eyes (Fig. 2), and the seedeating nymphs of the large milkweed bug (*Oncopeltus* fasciatus) (Fig. 3), as well as the invasive yellow aphid (Aphis nerii), which was introduced into the U.S. on oleander (Fig. 4).

Milkweed species enhance the beauty of our gardens. Several excellent books and articles may be consulted for understanding their interrelationships with other

species and growing your own garden of milkweeds, including the CNPS and The Xerces Society websites. If one is curious about the coevolution of milkweed and other species, then one would enjoy Anurag Agrawal's book *Monarchs and Milkweed: A Migrating Butterfly, a Poisonous Plant, and Their Remarkable Story of Coevolution* (2017). Or, try milkweed shoots for dinner.



Figure 1. Monarch caterpillar chewing on showy milkweed (*Asclepias speciosa*).



Figure 2. Four-eyed red milkweed beetle (*Tetraopes femoratus*) on narrowleaf milkweed (*Asclepias fascicularis*).



Figure 3. Group of large milkweed bug nymphs (*Oncopeltus fasciatus*) on showy milkweed (*Asclepias speciosa*).



Figure 4. Yellow aphids (*Aphis nerii*) on showy milkweed (*Asclepias speciosa*).

—Bob Zimmerman

## **Greenhouse Update**

I have just finished cleaning the last of the seeds and am now sitting down to plan out the growing season. To do this I look at past years sales results and figure out how many of each plant species I sold. I then look at how many plants I have in the inventory and decide how many more I need. This gives me a ballpark figure to be better prepared before all the randomness that can happen on the day of the sales (like how last spring's sale was nuts and when the Square payment app threw off the fall sale with the changes they made in their platform).

After I have the plan in place I figure out when I want to try and plant most of the seeds. This tends to be the last week of March. Then I count backwards on the calendar and write in when which seeds need to go into cold stratification or other treatments. For example, dogwood needs 12 weeks of cold stratification so I put it in the refrigerator the first week of January to be ready to plant in the last week of March.

The leaves have finally all fallen off the trees at the station and the tumble mustard is already blooming, so we need to do a cleanup day at the station in January. I will send out a request to my volunteer planters, but if you are not on that list and would like to help, contact me at

plant sale@bristleconecnps.org.

—Katie Quinlan

#### Welcome New Chapter Members!

We appreciate and thank you all for supporting the **Bristlecone Chapter:** 

Cheryl, Julia, and April in Bishop Karen in Corona Thomas in El Portal Charles in Independence Katherine in Madera Kathryn in San Diego Michael in Sierra Madre

## **Up-Coming Events**

#### **Chapter Events**

Wednesday, January 17, 6:00 pm **Board Meeting (online)** 

All members are welcome to join. Contact our Secretary, Kathleen Nelson, at secretary@bristleconecnps.org for the Zoom link.

## **Up-Coming Events**

Friday, January 19 **Mary DeDecker Grant Deadline** 

Application requirements at: http://bristleconecnps.org/dedecker/grant/Dedeck erGrantApplication2024.pdf

Ouestions? Contact the DeDecker Botanical Grants Coordinator at grants@bristleconecnps.org

Saturday, January 20, 9:00 am **CNPS Bristlecone Chapter Plot**, **Bishop Community Demonstration Garden in** Bishop City Park, 688 N. Main St.

Join Sue Weis on the third Saturday of each month, starting at 9:00 am, to work in our plot of native plants. Workdays will be canceled if raining. If you plan to help out, do contact Sue beforehand. sue.weis98@gmail.com

#### **Other Events**

Monday, February 12, 7:00 pm-8:30 pm California Water Culture; an overview of how California's unique waterways have been transformed, how it happened, and what it means North San Joaquin Valley Chapter WEBINAR with **Tina Donelly** 

This talk will overview the ties between California's culture and how it revolves around water & its plants and how the relationship has evolved over the past couple hundred years. Can California balance the needs of the citizens, the landscape, and the economy? This question may not be answered in this talk but insights and realistic perspectives will be given and discussed that may help open a productive dialogue.

Tina has lived in California's Central Valley most of her life and has been in the Natural Resources Management field for over ten years

Please register for this meeting at https://cnpsorg.zoom.us/meeting/register/tZYrdeurpiotG9zvdg LLOHRvz56vC2Yes7qx

# **Up-Coming Events**

Saturday, March 2, 9:00 am-3:00 pm Overview of the Major Changes Incorporated in Revision 12 of the Jepson eFlora VIRTUAL WORKSHOP presented by Bruce G. Baldwin, Dave Keil, Keir Morse, Rob Preston, and Martin Wojciechowski

Ever wonder why plant names change or why the Jepson eFlora is revised each year? Join Bruce Baldwin, Convening Editor of the Jepson Flora Project, and authors of newly revised treatments that have been included in Revision 12 of the Jepson eFlora to learn more about the recent changes and why they were made. Several authors will talk about the revision(s) they wrote, what the new treatment contains, and how the current treatment differs from the previous understanding of the group. Authors will also share photos and details of newly described species (if applicable) so that we can all be on the lookout for these special plants!

Updates will be provided for the following groups: Carsonia, Chamaesaracha, Cleomella, Lycium, Malacothamnus, Oxystylis, Peritoma, Physalis, Prosopis, Solanum, Streptanthus, and Wislizenia

Course fee: \$50

If you'd like to be enrolled in this workshop, please fill out this Google form. https://docs.google.com/forms/d/e/1FAIpQLSfgniJj QRZ5pNMfF\_zblilGCqYJNsiOtnN5f05IGdL436DqCA/ viewform?usp=sf\_link

# Please send any submissions to us by February 15, 2024 for the next issue.

#### **Bristlecone Chapter Directory**

President: **OPEN** Vice President: **OPEN** Secretary: Kathleen Nelson secretary@bristleconecnps.org Treasurer: Sue Weis treasurer@bristleconecnps.org Chapter Council Delegate: Stephen Ingram stephen@ingramphoto.com Conservation/Partnerships: OPEN Education: OPEN Programs: OPEN DeDecker Grants: Kathleen Nelson secretary@bristleconecnps.org Field Trips: OPEN Bishop Plant Sales: Katie Quinlan plant sale@bristleconecnps.org Publicity: Gaylene Kinzy gkinzyreische@gmail.com Newsletter: Elaine Chow newsletter@bristleconecnps.org Membership: Sue Carter membership@bristleconecnps.org Website: **OPEN** T-shirt Sales: Katie Quinlan plant\_sale@bristleconecnps.org

<u>plant\_sale@bristleconecnps.org</u> DeDecker Gardener: Kelly Bahr <u>kbahr@cnps.org</u> **The California Native Plant Society** Bristlecone Chapter P.O. Box 364 Bishop, CA 93515-0364 <u>RETURN SERVICE REQUESTED</u>

> Note: If you still receive this newsletter via US Mail, please help the Bristlecone chapter save money, energy, and trees by sending your email address to newsletter@ bristleconecnps.org so you can receive the electronic version.

# **Membership**

The California Native Plant Society is an organization of laypersons and professionals united by an interest in the plants of California. It is open to all. The society, working through its local chapters, seeks to increase the understanding of California's native flora and to preserve this rich resource for future generations. **To join or renew online**: Go to <u>www.cnps.org</u> and click JOIN/RENEW (at the top-right or select it after clicking the menu button at the top left of the webpage) or mail the form below:

Name:	
Address:	
City:	State:
Zip Code: Phone:	
Email:	
I wish to be affiliated with the Bristlecon	e Chapter:
Other:	
Membership Category	
_ Student / Fixed Income	\$25
Individual	\$50
Plant Lover	\$120
Supporter	\$500
Patron	\$1,000
Benefactor	\$2,500
Steward	\$5,000
Guardian	\$10,000
Additional Contribution	

Membership Type: \_\_\_\_ New Member \_\_\_\_ Renewal

#### Mail To / Make Payable To:

California Native Plant Society, Attn: Membership 2707 K Street, Suite 1 Sacramento, CA 95816

Gift Contribution:	Wherever needed	
Specific Area:		

Go Perennial! To become a monthly
sustaining (perennial) member, join or
renew online at www.cnps.org/perennial