

Barbara Rice Internship

Alexis LaFever-Jackson

March 2020
MacKerricher State
Park

Left to right: Terra
Fuller, Teresa Sholars,
Lupin, Jennifer
Buck-Diaz, Alexis
LaFever-Jackson,
Savannah Vu, Annie
Zell, Jim Gibson, Daniel
Harrington



Overview

- Barbara Rice's Legacy
- Background Experience
- Manual of California Vegetation
- Rare Plants
- Field Work
- Data Summary
- Overcoming Obstacles



Gualala Regional Park
June 2020

Barbara Rice's Legacy



University of California, Santa Cruz

Below: Post burn 2018



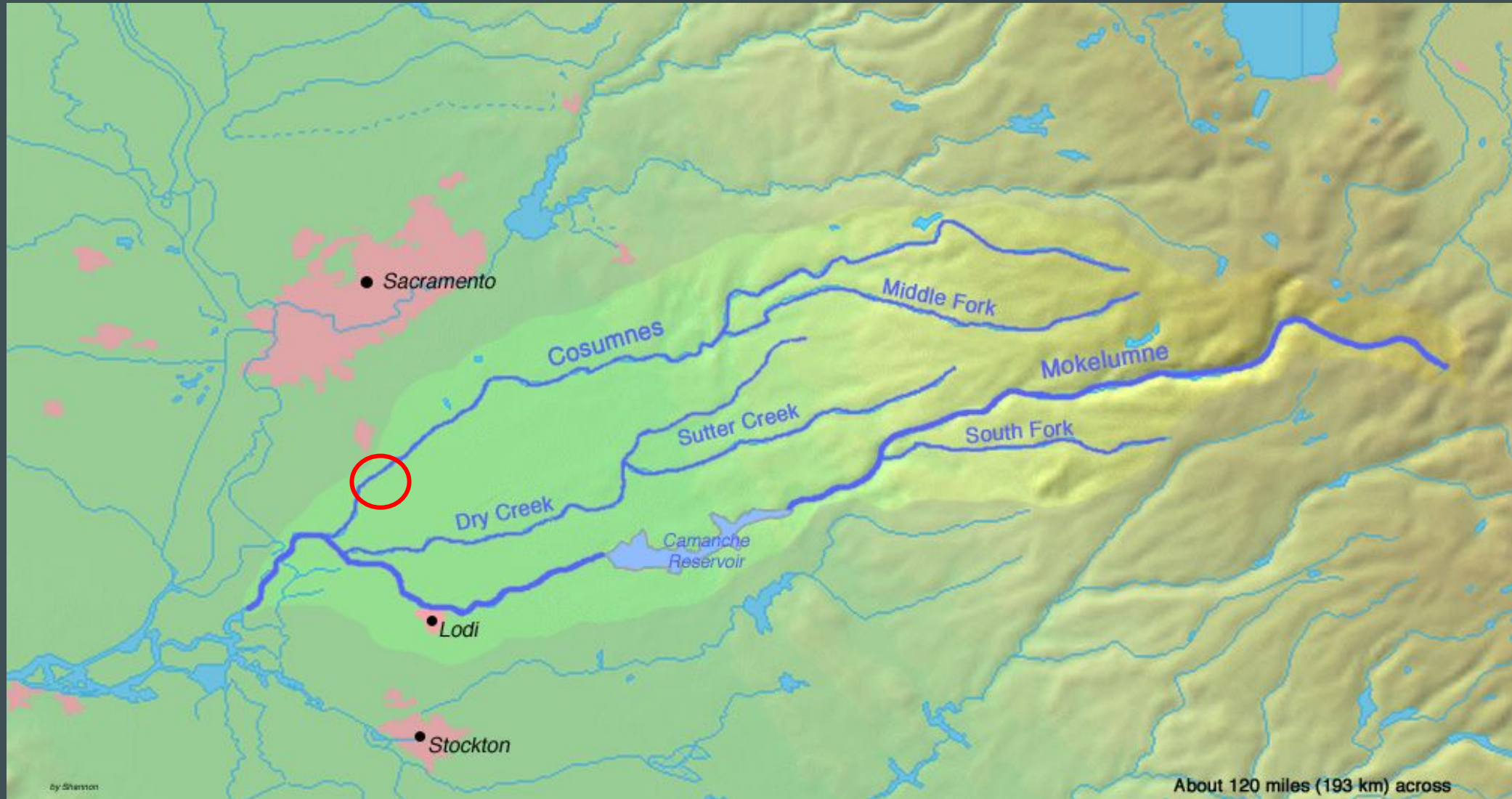
Above: Post
burn 2020



Right:
Arctostaphylos
sp. burls



Cosumnes River Preserve, Sacramento Co.





The Audubon Society – Starr Ranch, Orange County



Acmispon glaber



Cynara cardunculus

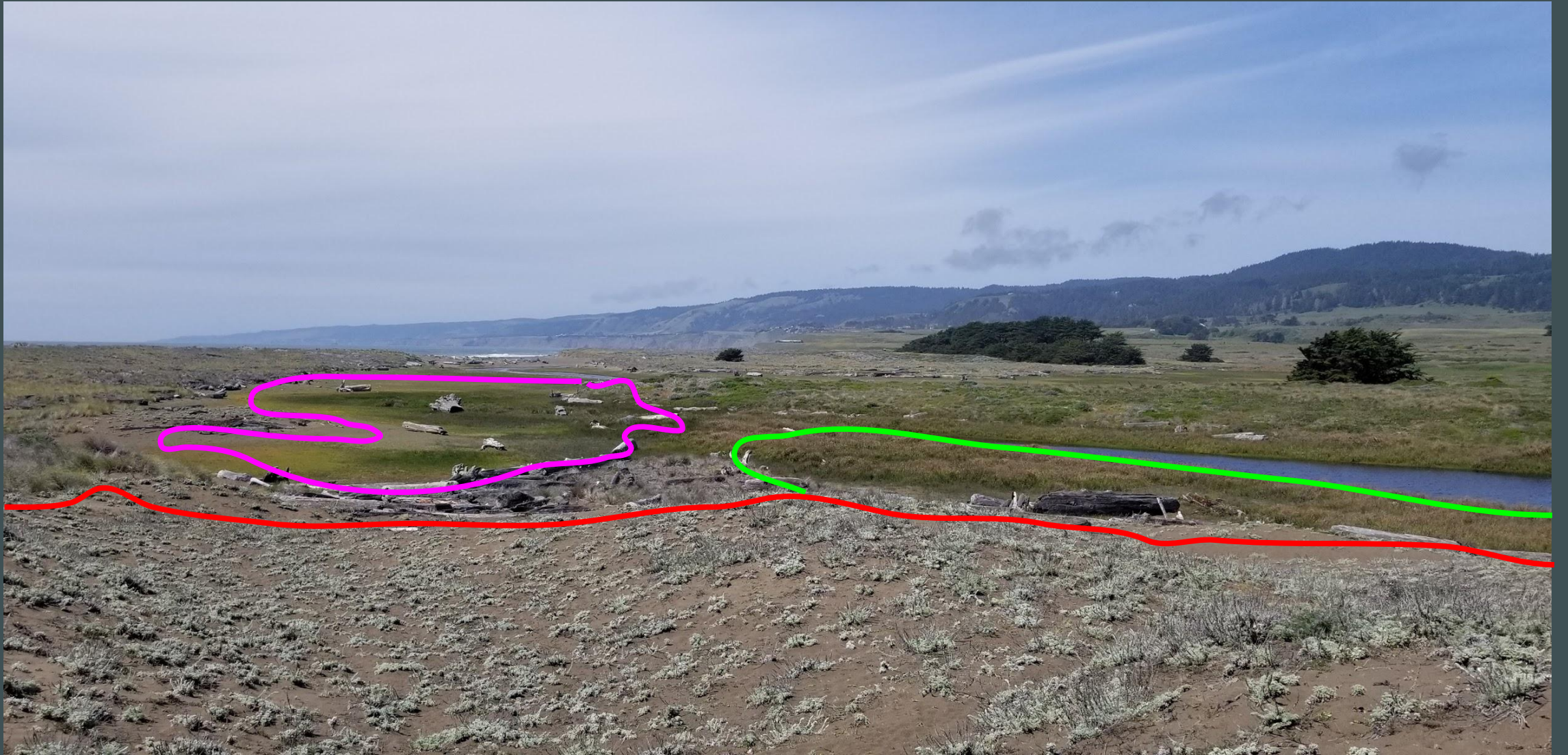




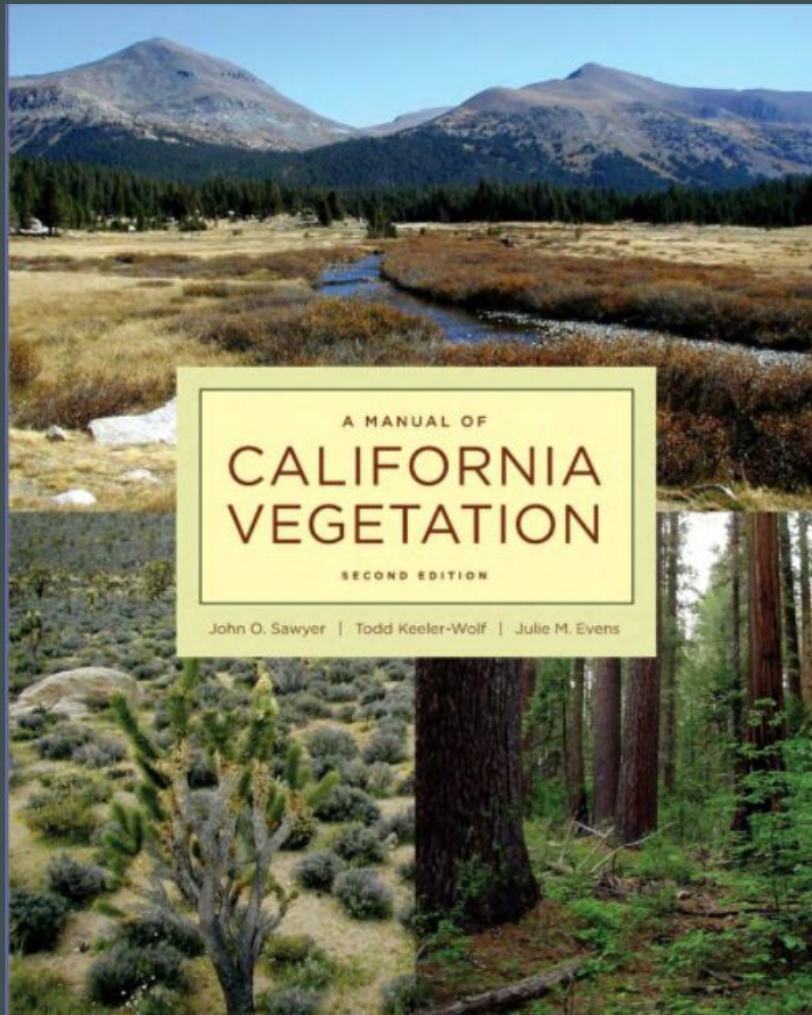
CNPS Santa Cruz Chapter



2018 Rapid Assessment and Releve Training Workshop



Classification of California Vegetation



Alliance - The basic unit of floristic classification, usually named by the dominant and characteristic plant species in the uppermost layer of vegetation

Association - The smallest fundamental unit of classification, typically includes species from other strata

Eriophyllum staechadifolium - Erigeron glaucus - Eriogonum latifolium Alliance

Plantago maritima - Armeria maritima Association

vegetation.cnps.org



Manchester State Park
Abronia latifolia - Ambrosia chamissonis Alliance
S3; G3



Point Arena-Stornetta
Ammophila arenaria



Salt Point State Park
Gaultheria shallon - Rubus (ursinus) Alliance
State Not Ranked (SNR)



Salt Point State Park
Deschampsia cespitosa - Hordeum brachyantherum - Danthonia californica Alliance
S3



Like 1 © 2019 Tristan K Cole CC-BY-NC 4.0

Navarro Point Preserve
Sidalcea calycosa – *Carex harfordii* Provisional Alliance



Salt Point State Park

Eriophyllum staechadifolium - *Erigeron glaucus* - *Eriogonum latifolium* Alliance S3; G3

Plantago maritima - *Armeria maritima* Provisional Association



Salt Point State Park

Eriophyllum staechadifolium - *Erigeron glaucus* - *Eriogonum latifolium* Alliance S3; G3

Plantago maritima - *Armeria maritima* Provisional Association



Redwood Coast Land Conservancy, Milholin Property
Eriophyllum staechadifolium - *Erigeron glaucus* - *Eriogonum latifolium* Alliance S3; G3
Plantago maritima - *Armeria maritima* Provisional Association

Rare Plants

Entered 39 rare plant occurrences into the California Natural Diversity Database (CNDDDB)

- 19: Alexis LaFever-Jackson's data from field work
- 11: Barbara Rice's data
- 9: Jennifer Buck-Diaz's data from Point Arena-Stornetta



Blennosperma nanum var.
robustum 1B.2

Field Work



Left: Manchester State Park
Below: MacKerricher State Park with Teresa Sholars and Lupin in the foreground



Combined Vegetation Rapid Assessment and Relevé Field Form
(Revised March 27, 2018)

For Office Use:	Final database #:	Final vegetation type:	Alliance
			Association
I. LOCATIONAL/ENVIRONMENTAL DESCRIPTION			circle: <u>Relevé</u> or RA
Database #: MEND0150	Date: 7/15/2020	Name of recorder: <u>ALJ</u>	
	UID:	Other surveyors:	
		Location Name: <u>South of Schooner's Gulch</u>	
GPS name: <u>STIPA</u>	For Relevé only: Bearing°, left axis at ID point <u>350</u> of <u>Long</u> / <u>Short</u> side		
UTME _____	UTMN _____	Zone: <u>11</u>	NAD83 GPS error: <u>ft</u> m / PDOP <u>16.4</u>
Decimal degrees: LAT <u>38.859358</u> LONG <u>-123.652927</u>			
GPS within stand? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, cite from GPS to stand: distance (m) _____ bearing° _____ inclination° _____			
and record: Base point ID _____ Projected UTM: UTME _____ UTMN _____			
Camera Name: <u>STIPA</u> Cardinal photos at ID point: <u>N 633-636</u>			
Other photos: <u>NE 637</u>			
Stand Size (acres): <u><1</u> 1-5, >5 Plot Area (m ²): <u>100</u> Plot Dimensions <u>5</u> x <u>20</u> m RA Radius _____ m			
Exposure, Actual°: <u>310</u> NE <u>NW</u> SE SW Flat Variable Steepness, Actual°: <u>2</u> 0° <u>1-5</u> >5-25° >25			
Topography: Macro: top <u>upper</u> <u>mid</u> lower bottom Micro: convex <u>flat</u> concave undulating			
Geology code: <u>SAND</u> Soil Texture code: <u>MESN</u> <u>Upland</u> , or Wetland/Riparian (circle one)			
% Surface cover: (Incl. outcrops) (>60cm diam) (25-60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand, mud)			
H ₂ O: <u>0</u> BA Stems: <u>3</u> Litter: <u>5</u> Bedrock: <u>0</u> Boulder: <u>0</u> Stone: <u>0</u> Cobble: <u>0</u> Gravel: <u>6</u> Fines: <u>86</u> =100%			
% Current year bioturbation <u>2</u> Past bioturbation present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No % Hoof punch <u>0</u>			
Fire evidence: Yes / <input checked="" type="checkbox"/> No (circle one) If yes, describe in Site history section, including date of fire, if known.			
Site history, stand age, comments: <u>North of parking area for view point along cliff edge, west of HWY 1. Large clump of AME near middle of stand with a high cover of GRST. WLI scattered throughout (as well as ERGL) just out of plot to the N. ERLA is high in cover with larger shrubs. The southeast corner of stand is on a slightly steeper hill that has much more bare ground exposed.</u>			
Disturbance code / Intensity (L,M,H): <u>05/L 23/M</u> _____ "Other" _____			
II. HABITAT DESCRIPTION			
Tree DBH: <u>T1</u> (<1" dbh), <u>T2</u> (1-6" dbh), <u>T3</u> (6-11" dbh), <u>T4</u> (11-24" dbh), <u>T5</u> (>24" dbh), <u>T6</u> multi-layered (T3 or T4 layer under T5, >60% cover)			
Shrub: <u>S1</u> seedling (<3 yr. old), <u>S2</u> young (<1% dead), <u>S3</u> mature (1-25% dead), <u>S4</u> decadent (>25% dead)			
Herbaceous: <u>H1</u> (<12" plant ht.), <u>H2</u> (>12" ht.)			
Desert Riparian Tree/Shrub: <u>1</u> (<2ft. stem ht.), <u>2</u> (2-10ft. ht.), <u>3</u> (10-20ft. ht.), <u>4</u> (>20ft. ht.)			
Desert Palm/Joshua Tree: <u>1</u> (<1.5" base diameter), <u>2</u> (1.5-6" diam.), <u>3</u> (>6" diam.)			

Combined Vegetation Rapid Assessment and Relevé Field Form
(Revised March 27, 2018)

Database #: MEND0150

(Revised March 27, 2018)

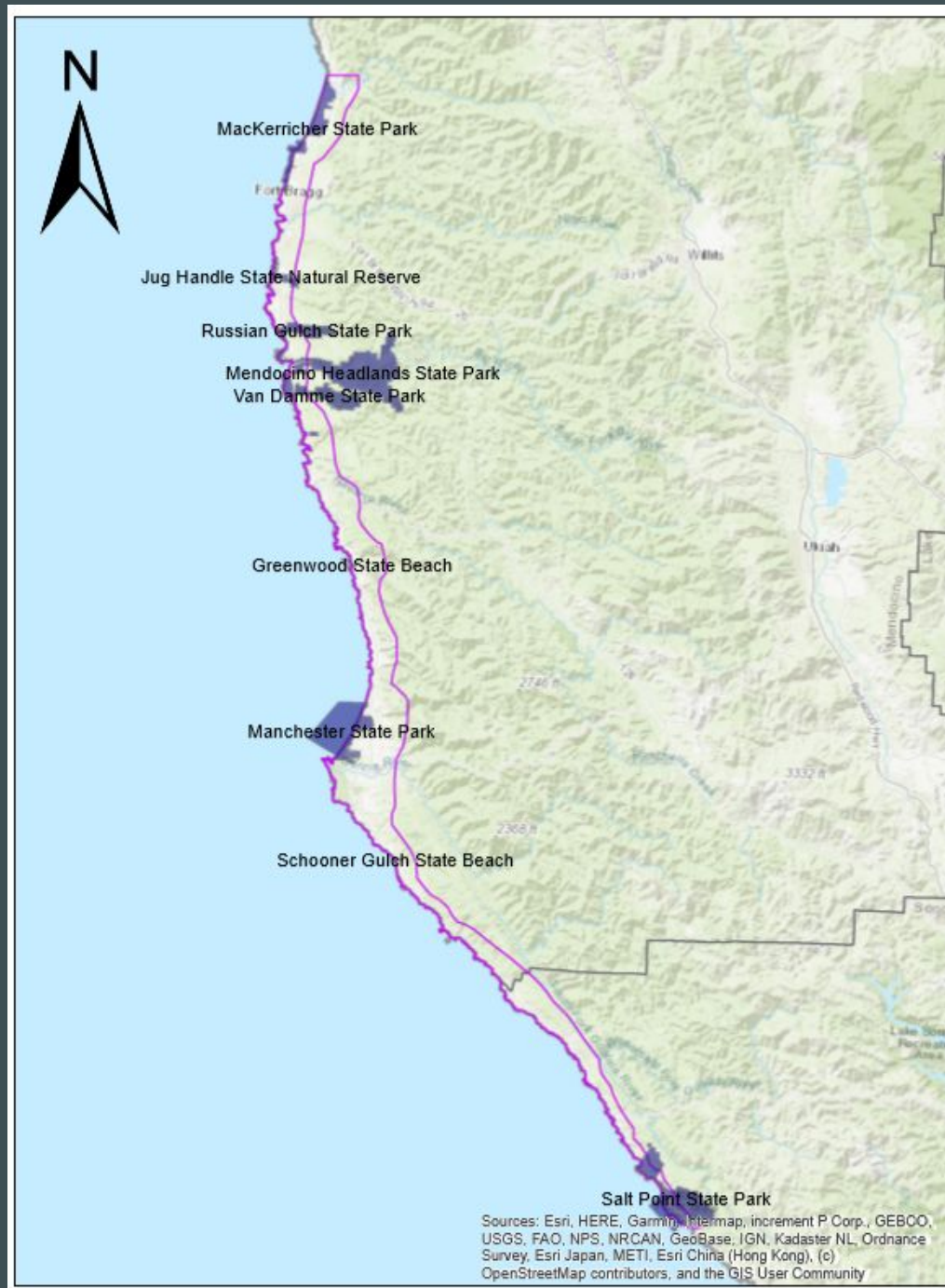
SPECIES SHEET

IV. VEGETATION DESCRIPTION			
		% NonVasc cover: <u>+</u>	Total % Vasc Veg cover: <u>64</u>
% Cover -	Conifer tree / Hardwood tree: <u>+</u>	Regenerating Tree: <u>+</u>	Shrub: <u>+</u> Herbaceous: <u>60</u>
Height Class -	Conifer tree / Hardwood tree: <u>+</u>	Regenerating Tree: <u>+</u>	Shrub: <u>+</u> Herbaceous: <u>1</u>
Height classes: 1=<1/2m, 2=1/2-1m, 3=1-2m, 4=2-5m, 5=5-10m, 6=10-15m, 7=15-20m, 8=20-35m, 9=35-50m, 10=>50m			
Stratum categories: T=Tree, A=SAPling, E=SEedling, S=Shrub, H=Herb, N=Non-vascular			
% Cover Intervals for reference: r = trace, + = <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%			
Stratum	Species	% cover	C Final species determination
H	<i>Grindelia stricta</i>	22	
H	<i>Fragaria chilensis</i>	5	
H	<i>Juncus brenveri</i>	+	
H	<i>Eriogonum latifolium</i>	10	
H	<i>Castilleja mendocinensis</i>	6	
H	<i>Erigeron glaucus</i>	3	
H	<i>Leontodon saxatilis</i>	2	
H	<i>Plantago lanceolata</i>	2	
H	<i>Bromus sitchensis</i>	+	var. <i>maritima</i>
H	<i>Lupinus littoralis</i>	3	
H	<i>Madia sativa</i>	5	
H	<i>Agrostis blasdalei</i>	2	
H	<i>Dudleya cymosa</i>	1	
H	<i>Gnaphalium ustulata</i>	+	
H	<i>Daviesia pusillus</i>	+	
H	<i>Lysimachia arvensis</i>	+	
H	<i>Hespererax sparsiflora</i>	1	
H	<i>Adonis sp. glaber</i>	+	
H	<i>Sonchus oleraceus</i>	+	
H	<i>Bromus hordeaceus</i>	+	
N	Moss	+	

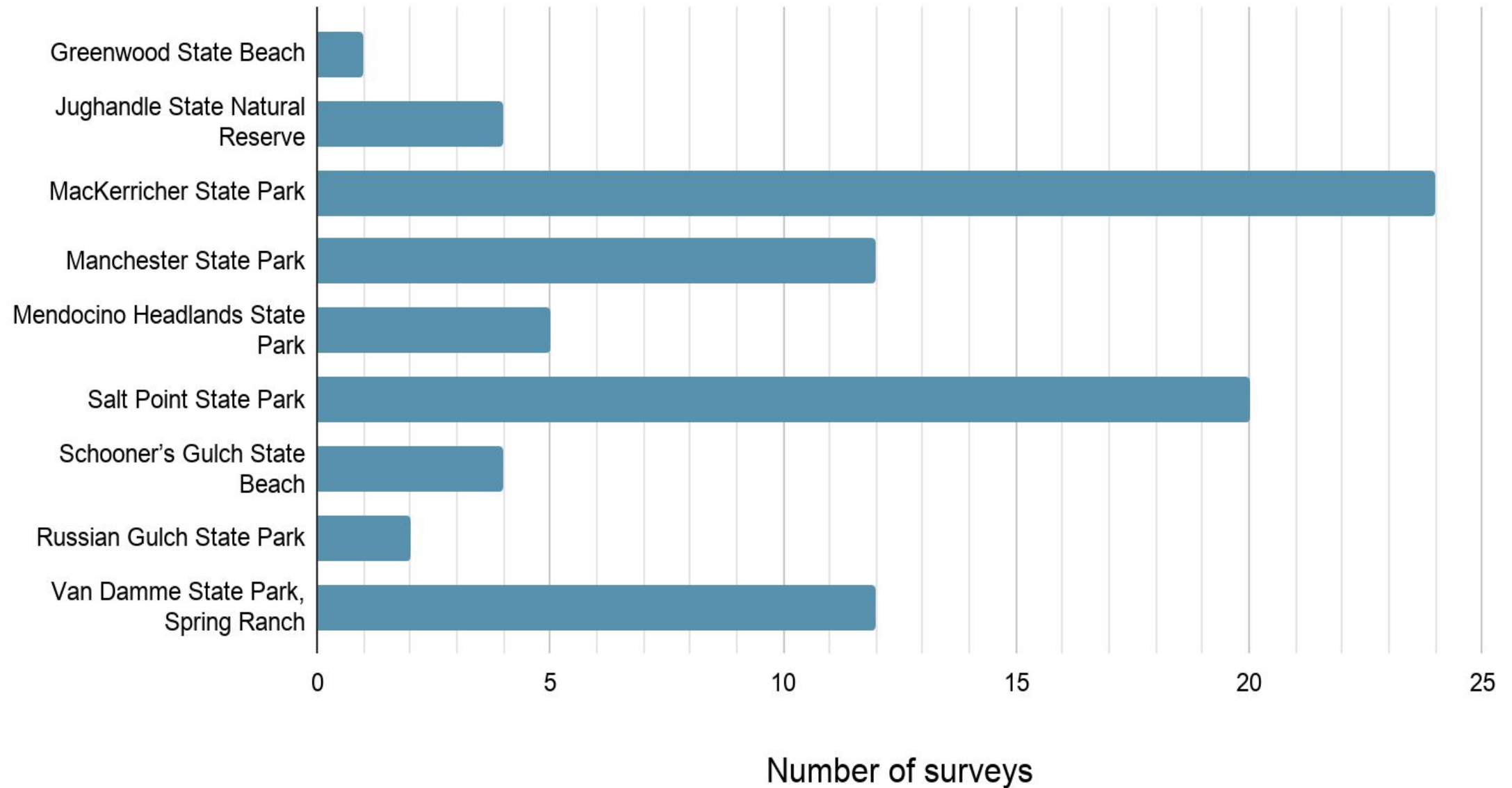
Data Summary: State Parks



Salt Point State Park
Lilium pardalinum

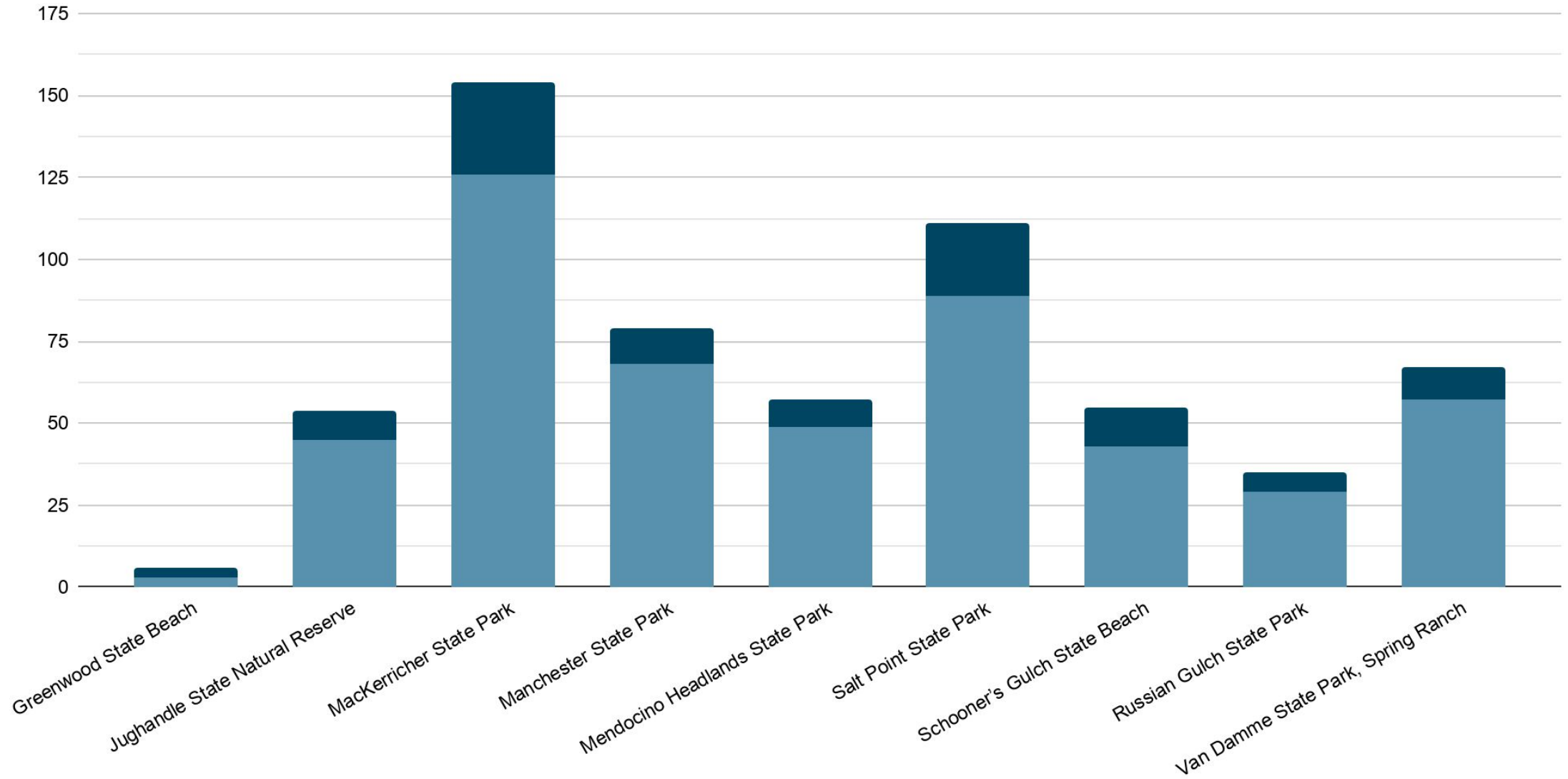


Surveys on State Park Properties

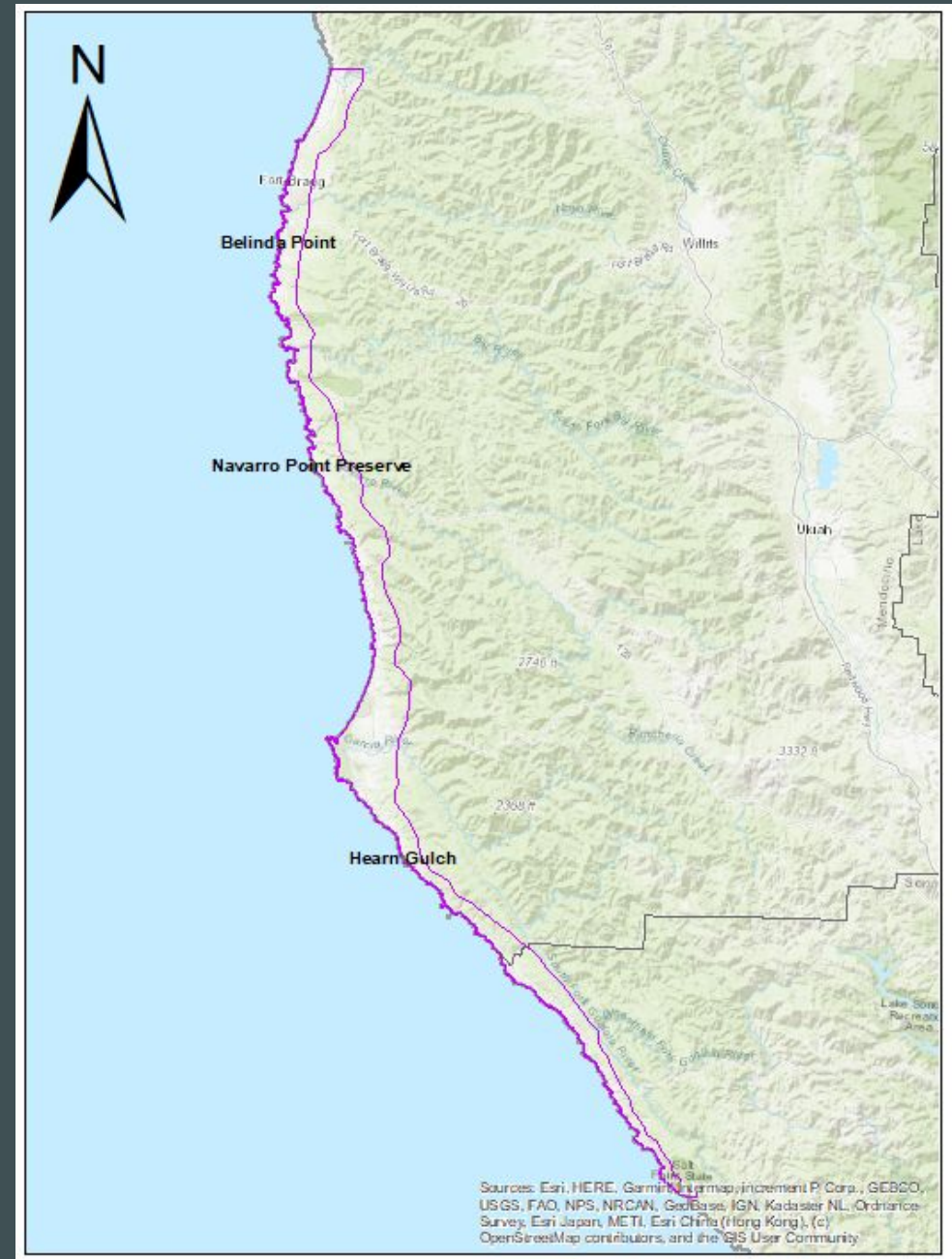


Species Nativity on State Park Properties

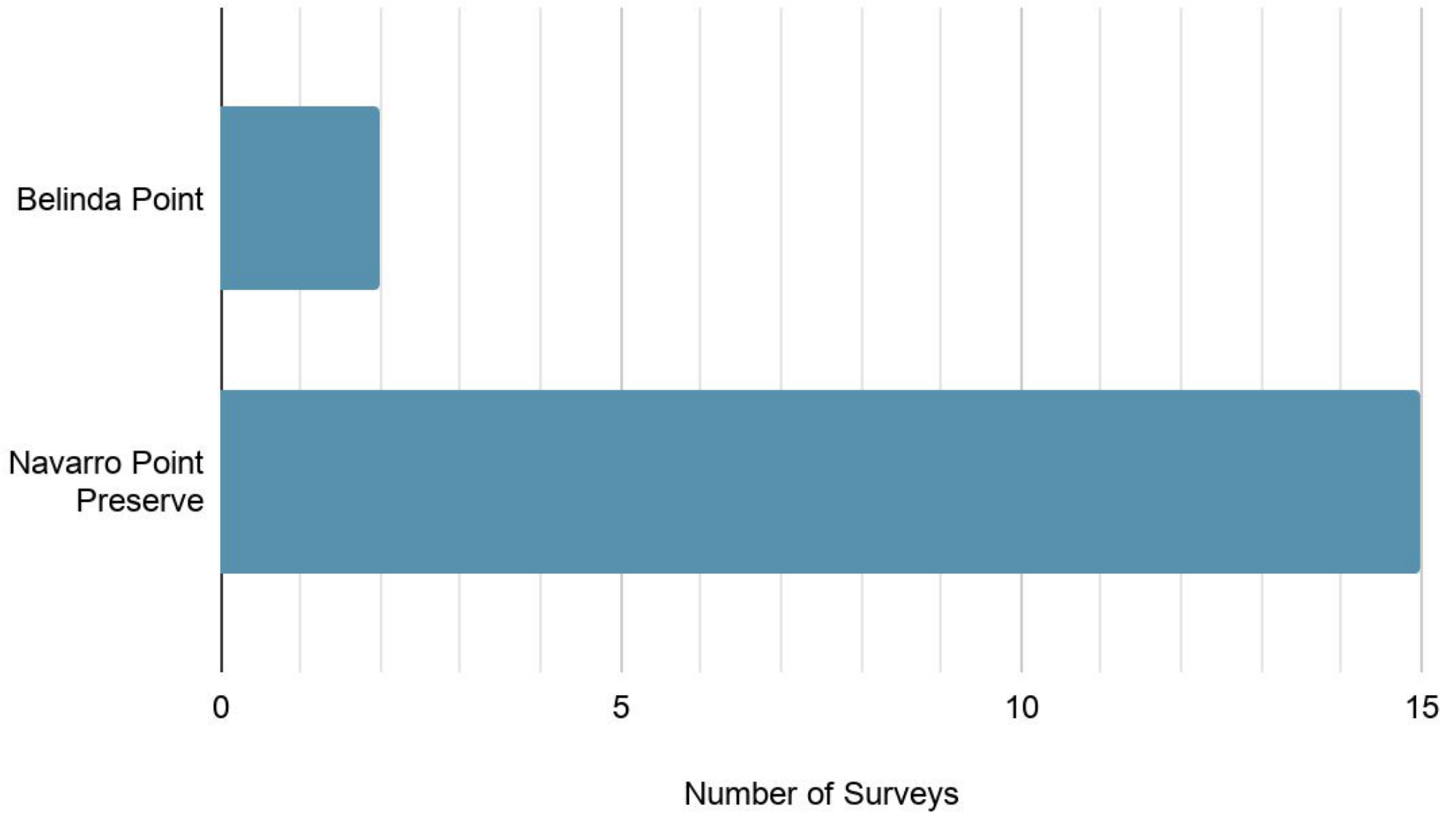
■ Non-native species ■ Native species



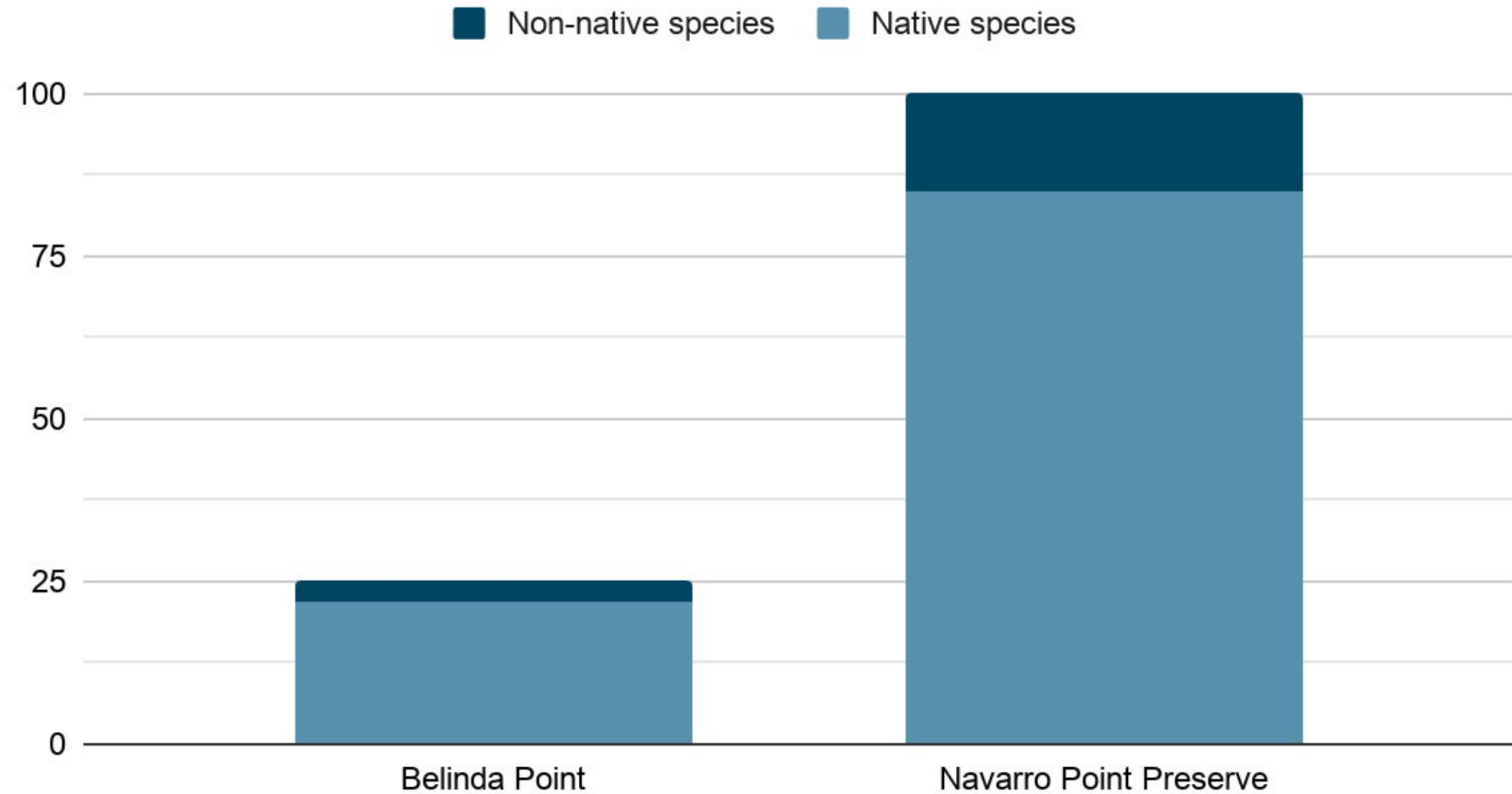
Data Summary: Mendocino Land Trust



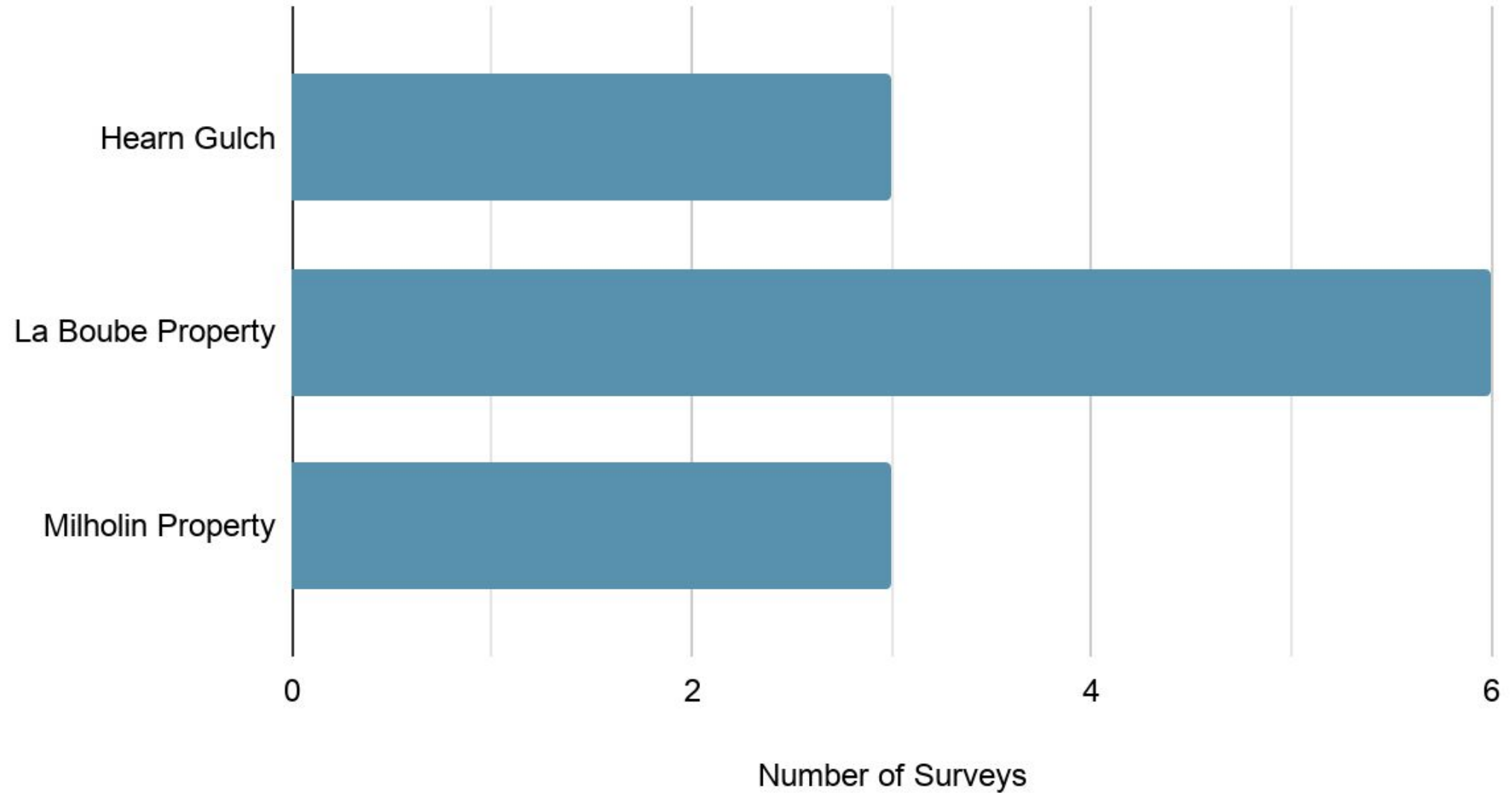
Surveys on Mendocino Land Trust Properties



Species Nativity on Mendocino Land Trust Properties



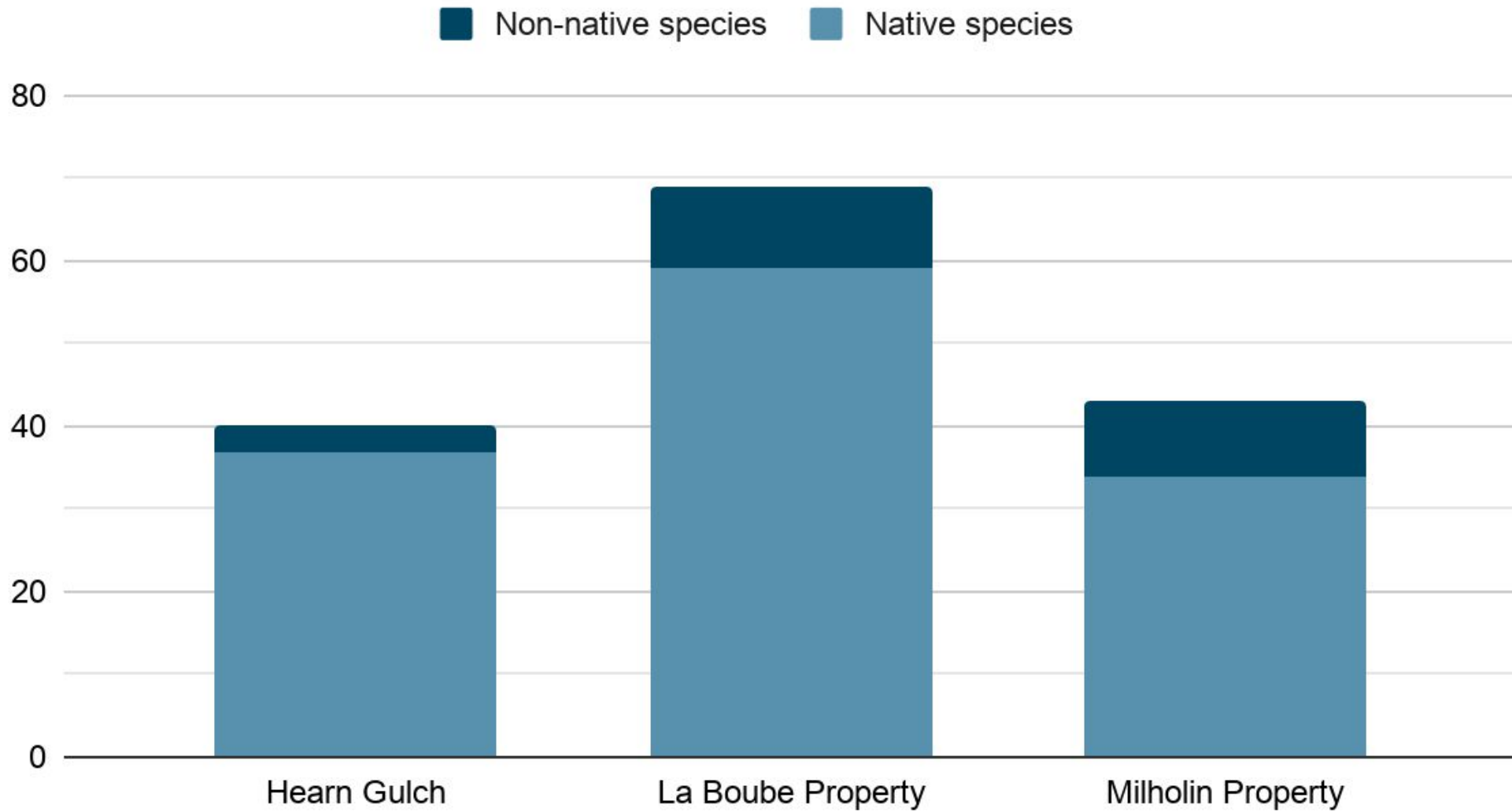
Surveys on Redwood Coast Land Conservancy Properties





Milholin Property

Species Nativity on RCLC Properties

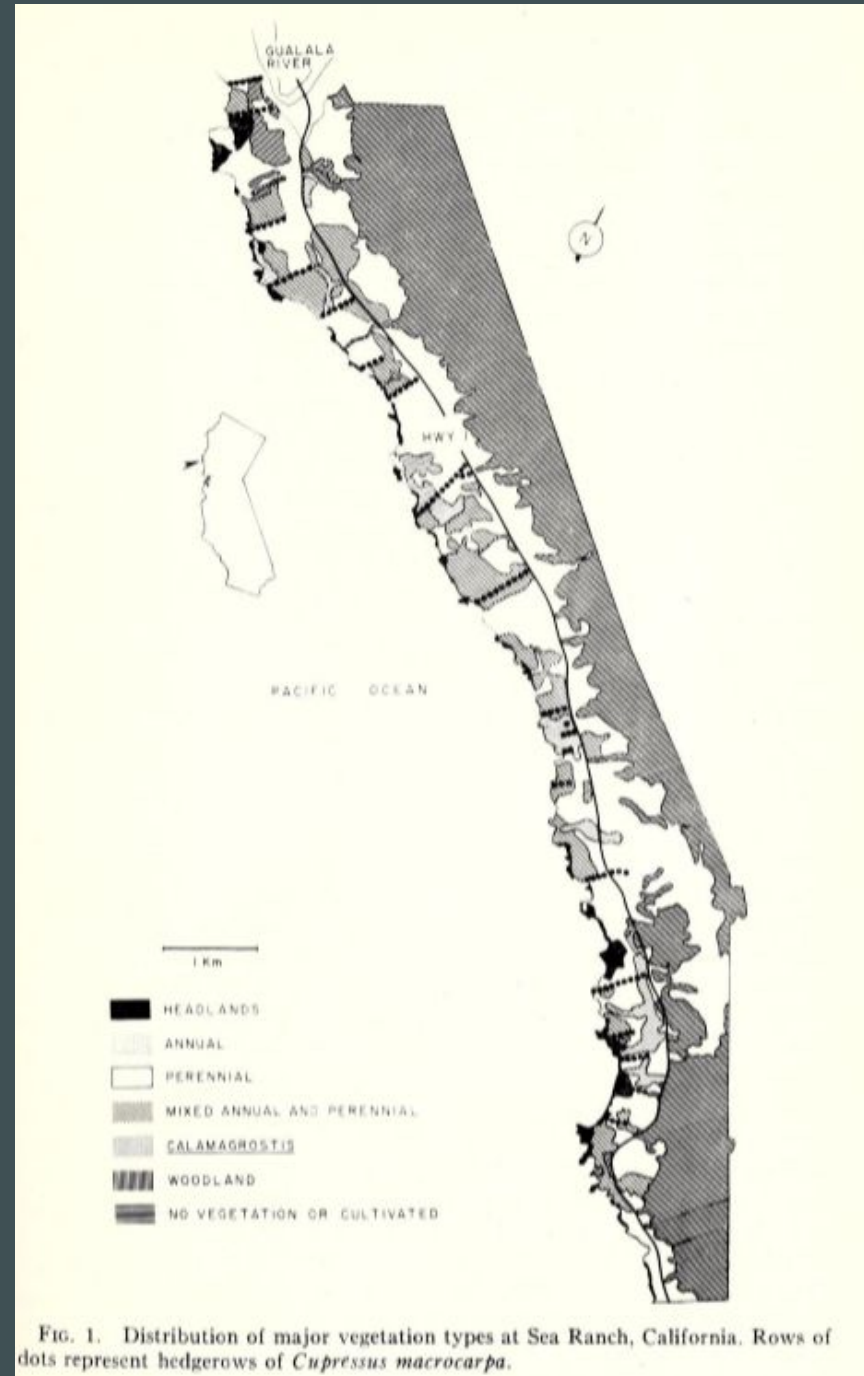
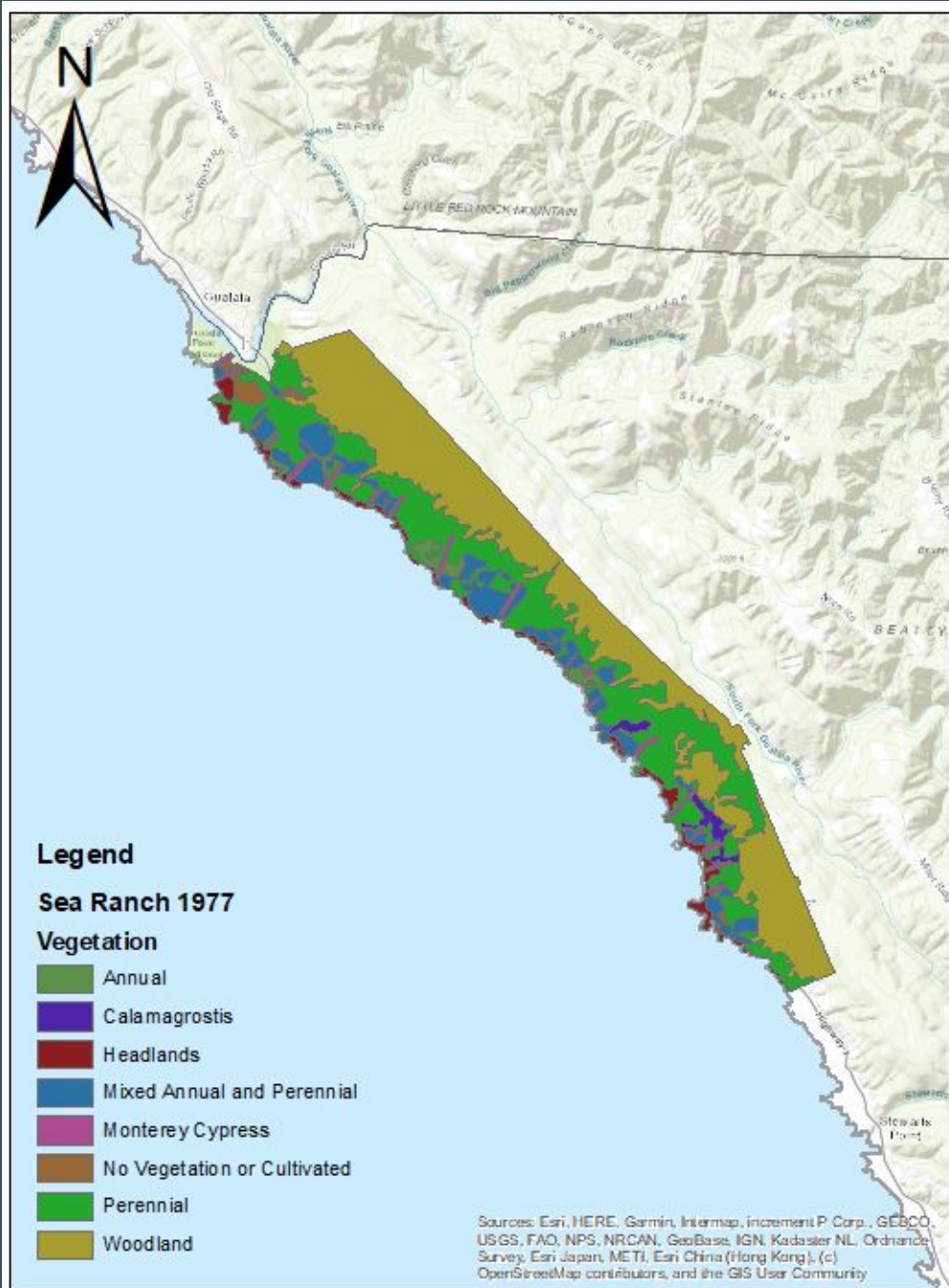


Overcoming Obstacles

- Stay-at-home orders
- Housing on the coast
- Racoons
- Wildfires and smoke
- Land access



Gualala River

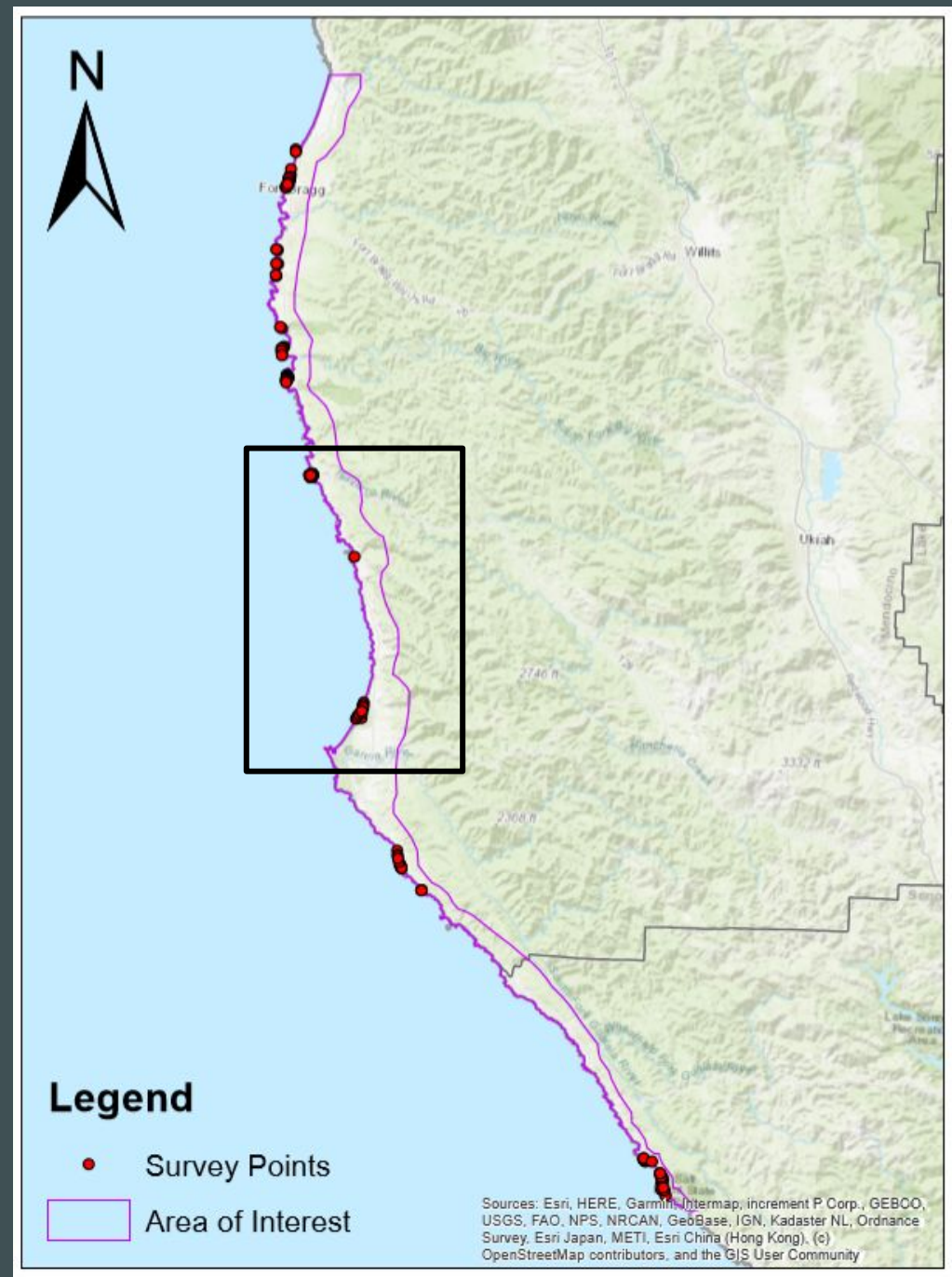
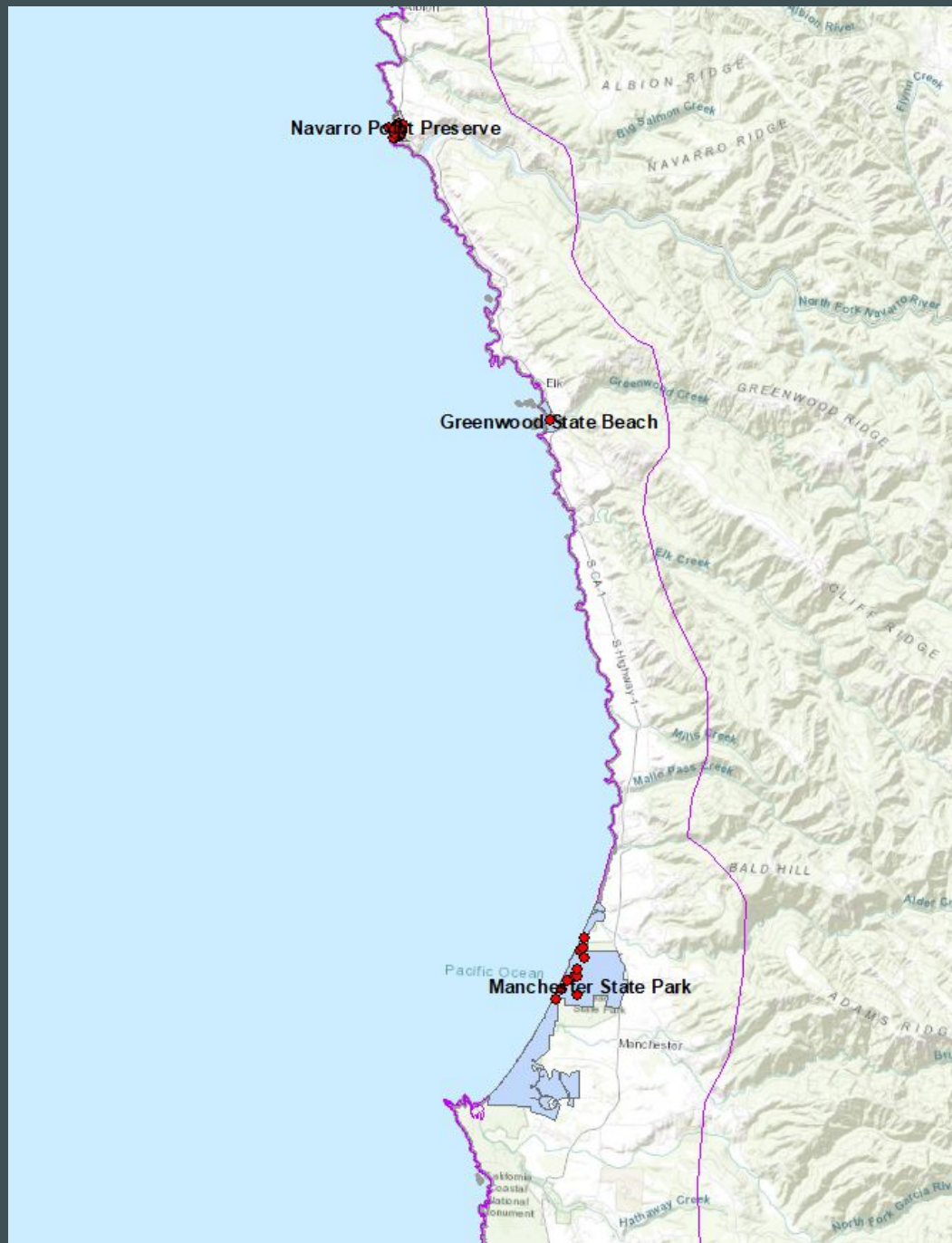




My boot with tiny teeth marks



Manchester State Park on September 17, 2020



Greenwood State Beach

August 14, 2020



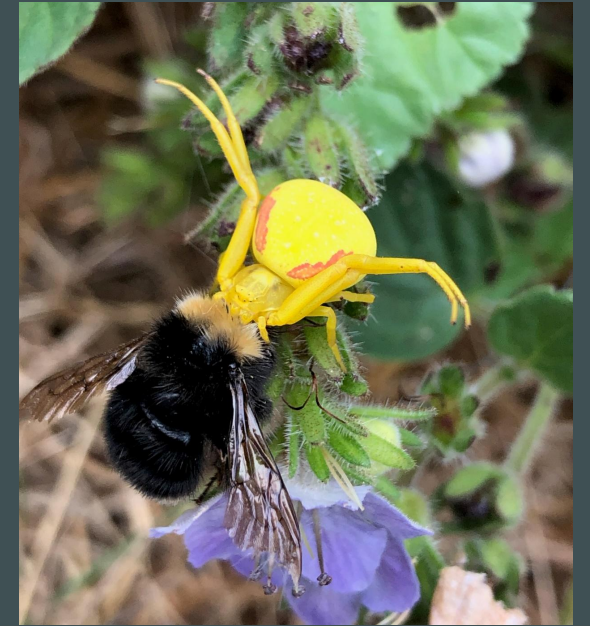
Thank you:
David Rice, The DKY
Chapter, Teresa Sholars,
Renee Pasquinelli, Jim
Gibson, Peter Warner,
Terra Fuller, and the
Redwood Coast Land
Conservancy



Hearn Gulch on May 16, 2020
Sisyrinchium californicum



Navarro Point on July 21, 2020
Aphyllon californicum



Teresa Sholars Garden
August 12, 2020



Manchester State Park on May 15, 2020
Eschscholzia californica and *Platystemon californicus*



UCSC Arboretum on November 28, 2020
Slender Salamander