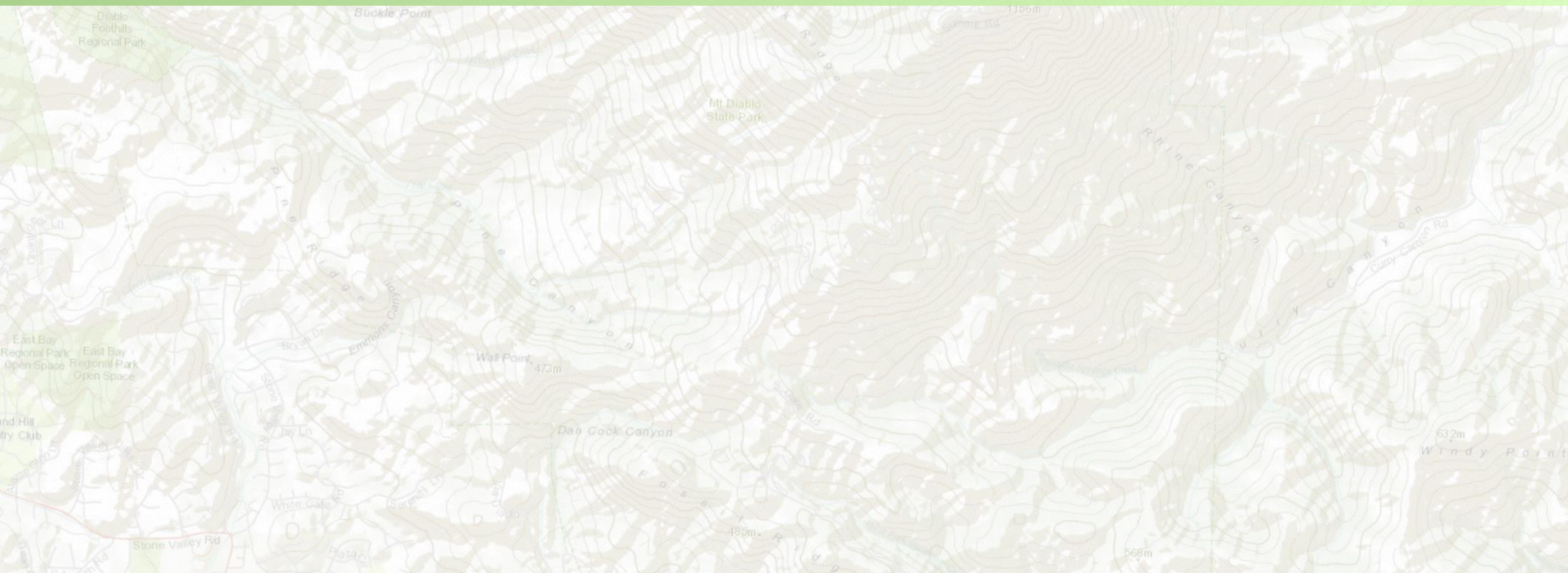




CDFW, VegCAMP Vegetation Projects Collaborators Meeting

Rachelle Boul, Senior Vegetation Ecologist and Program Lead
June 14, 2023





BDB and VegCAMP

Biogeographic Data Branch (BDB)

Sacramento, California

- *The mission of CDFW's Biogeographic Data Branch is to collaborate with others to collect, manage, analyze, and distribute biogeographic data for effective conservation and management of California's natural resources.*
- Acting Branch Chief: Carie Battistone
- Other BDB Programs:
 - BIOS
 - CNDDDB
 - CAU

Vegetation Classification and Mapping (VegCAMP) Staff

- Rachele Boul, Senior Vegetation Ecologist and Program Lead
- Jaime Ratchford, Vegetation Ecologist
- Betsy Bultema, Vegetation Ecologist
- Rosie Yacoub, GIS Specialist
- Melanie Gogol-Prokurat, Lead Ecologist/Supervisor
- Limited Term Staff:
 - Torrance Haynes, Vegetation Ecologist
 - Annie Allen, Vegetation Ecologist
 - Monica Tydlaska, GIS Specialist
- Scientific Aids: Diandra Graber, Jared Hom, Ashley Bendit
- Contract Staff: Catherine Curley, Nani Teves, Sabrina Bento, Sarah Nasif, William O'Brien, Heather MacRoberts, Song Hunter



CDFW, VegCAMP Vegetation Projects

Collaborators Meeting

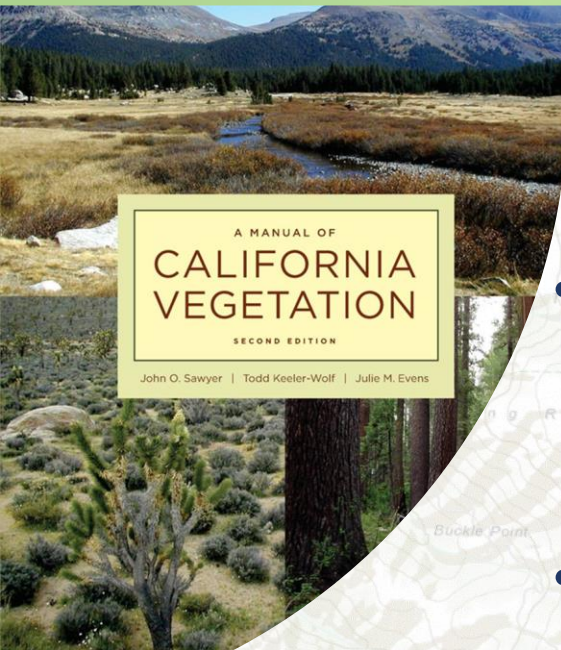
- VegCAMP overview
- A few things to consider
- Introduction to current VegCAMP Projects
Where. Who. What.
- *Cross-agency collaboration*
- *Cross-project collaboration*

Vegetation Classification and Mapping Program



What is VegCAMP?

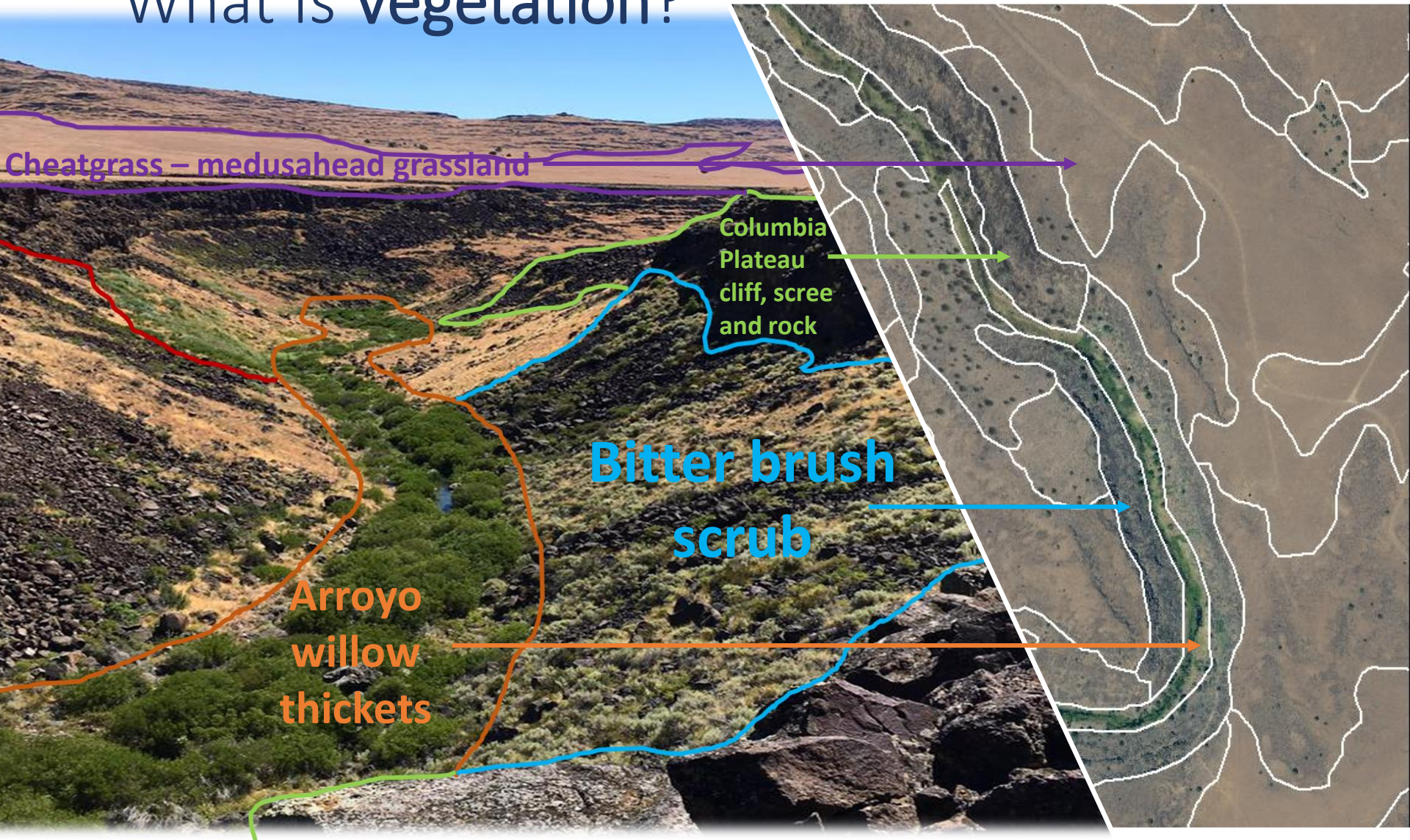
- Develops state standards for vegetation data (sampling, analysis, mapping, reporting)
 - Develop CA's vegetation classification system
 - Identify sensitive natural communities
- * Our goal: Complete a fine-scale, state-wide vegetation classification and map.



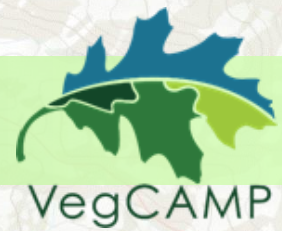
Vegetation Classification and Mapping Program



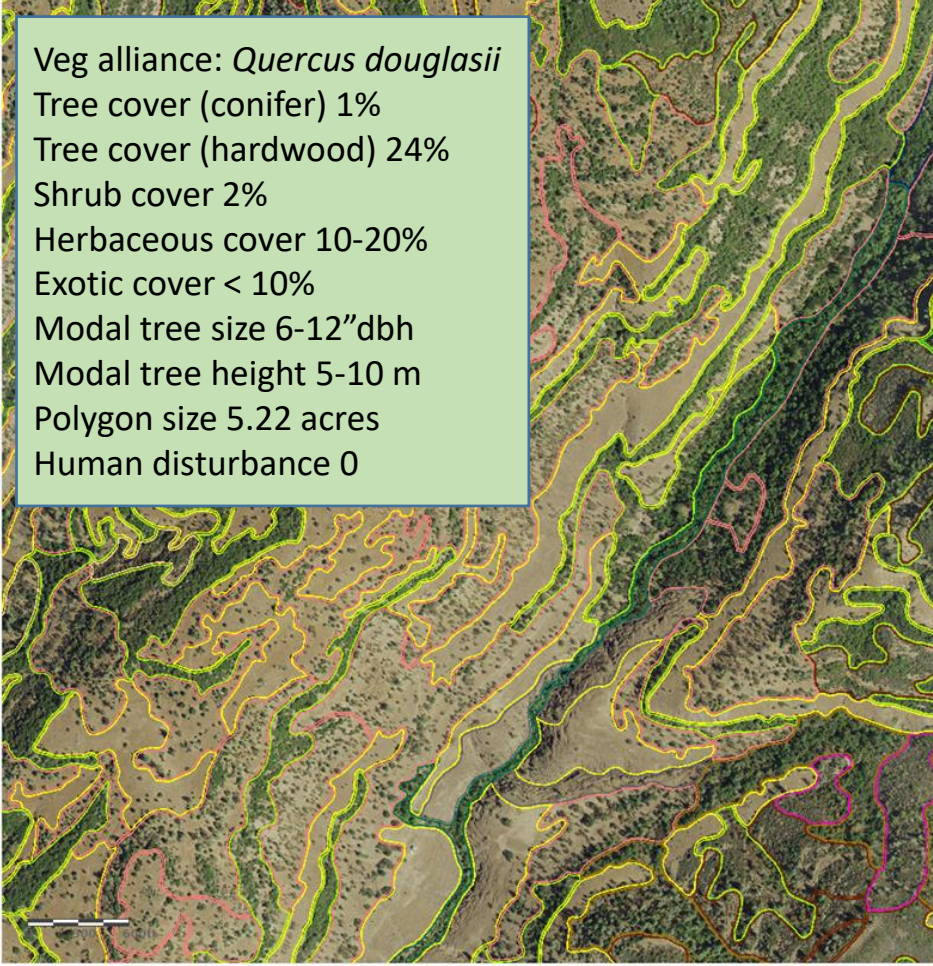
What Is Vegetation?



Vegetation Classification and Mapping Program



State-standard vegetation maps are fine-resolution and richly attributed to serve multiple uses



Veg alliance: *Quercus douglasii*
Tree cover (conifer) 1%
Tree cover (hardwood) 24%
Shrub cover 2%
Herbaceous cover 10-20%
Exotic cover < 10%
Modal tree size 6-12"dbh
Modal tree height 5-10 m
Polygon size 5.22 acres
Human disturbance 0

- Identify sensitive natural communities
- Conservation and wildlife corridor planning
- Wildlife habitat modeling
- Fire and fuels management
- Impact and invasive species assessment
- Land management planning

Vegetation Classification and Mapping Program



Classification



CNPS: Manual of
California
Vegetation Online
& CNPS Website

Maps



CDFW: Biogeographic
Information and
Observation System

Standards

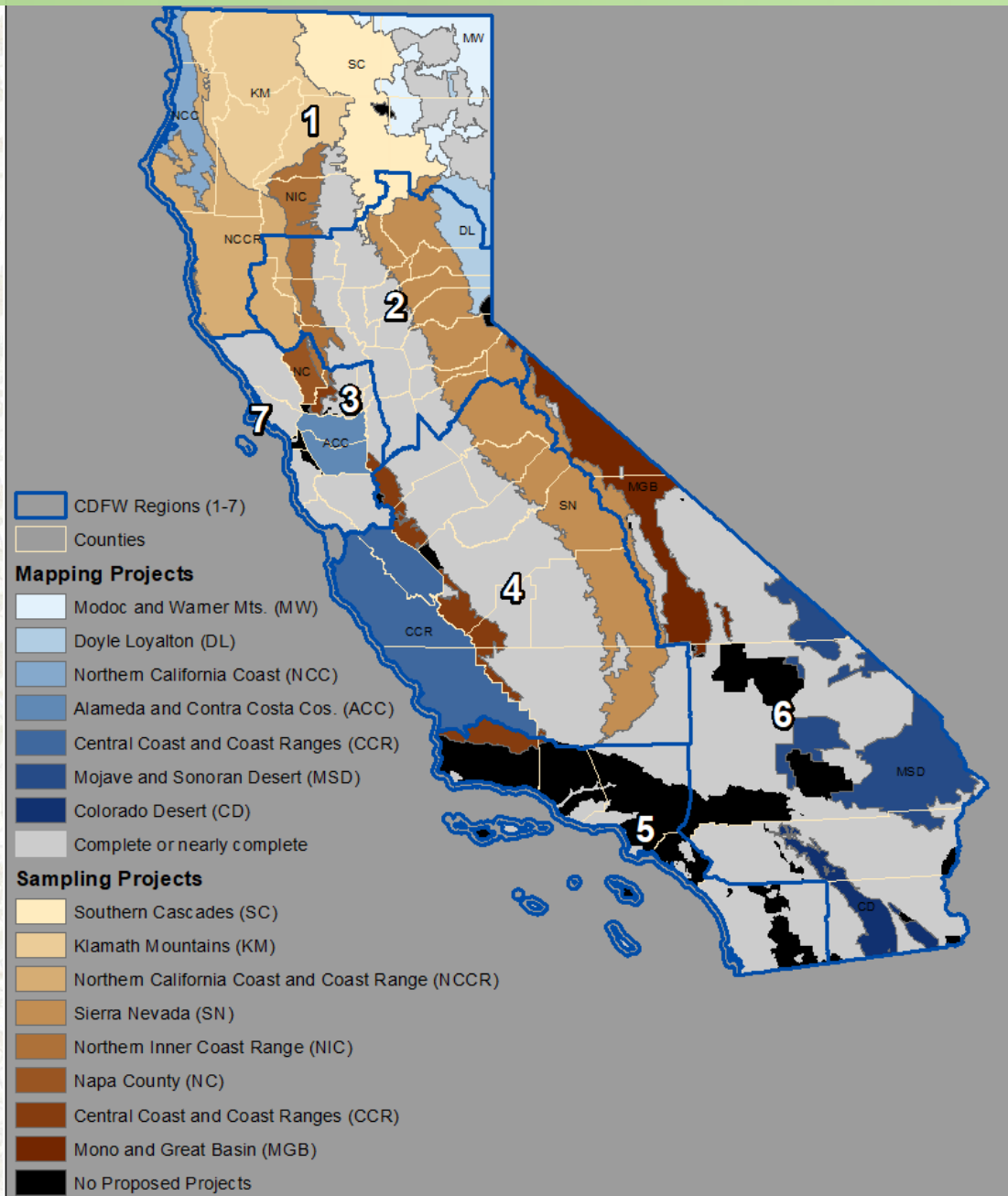


CDFW:VegCAMP
Website



*Links on images above

2023 Vegetation Sampling and Mapping Projects



Cross-project Collaboration



- Data collection, storage, and flow
- Tracking count and distribution of community types sampled
- Land access and collection permits
- Other?

Cross-agency Collaboration



- How might you use vegetation data in your work?
- Is there a particular project or region that you are most interested in?
- Are you able to provide land access information and be a point of contact to discuss this further?
- Do you know of any existing vegetation data that we might not know about?
- Is there anything else you'd like to ask or share with us?

Complete the online survey here:

<https://arcg.is/11bbP90>



GIC Vegetation Sampling and Mapping Projects



VegCAMP

Project Managers –

Jaime Ratchford, Jaime.Ratchford@wildlife.ca.gov

Nani Teves, Nani.Teves@Wildlife.ca.gov

Data Coordinator –

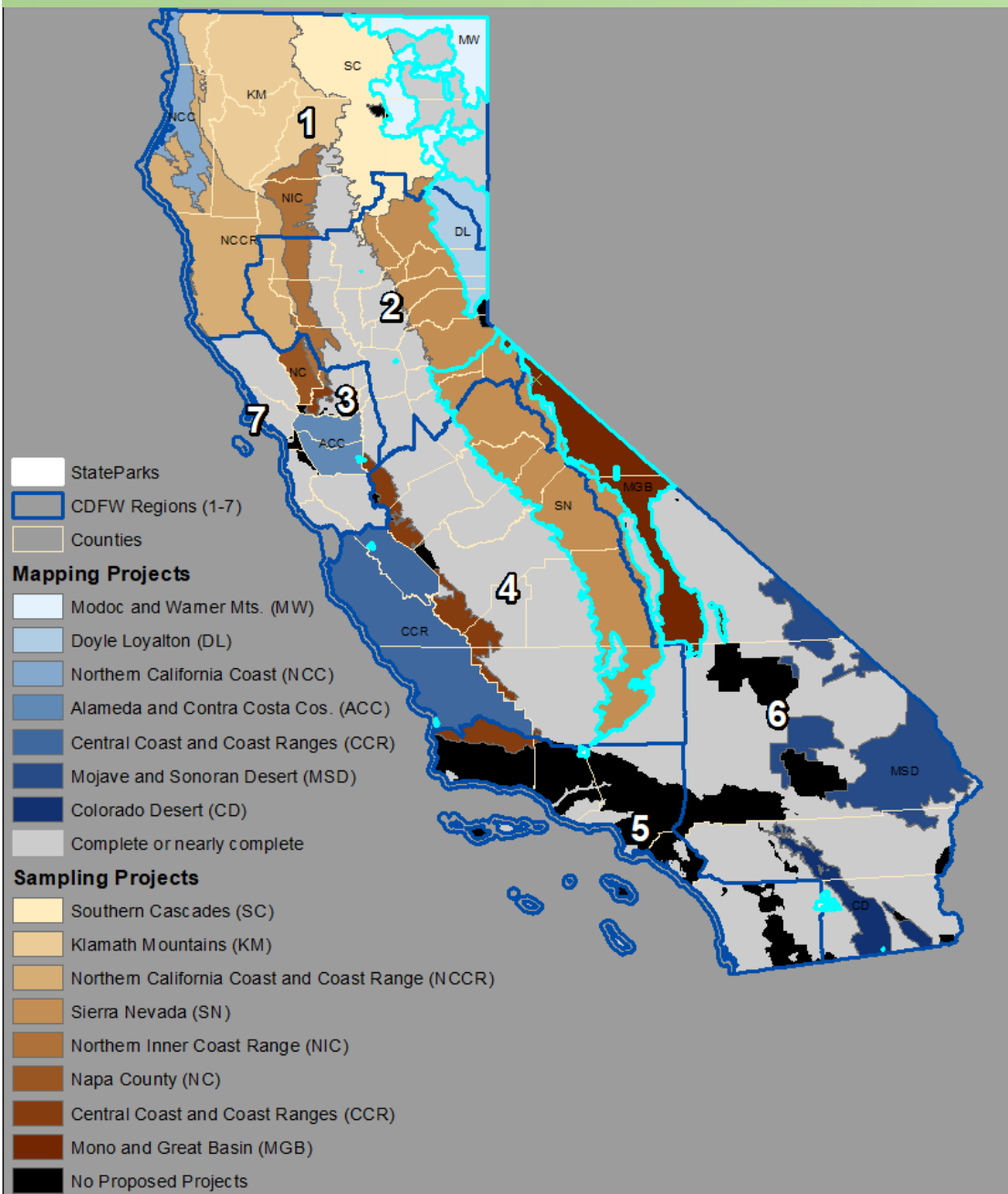
Monica Tydlaska, Monica.Tydlaska@Wildlife.ca.gov

Geographical Information Center

Project Manager - Jason Schwenkler,

jschwenkler@csuchico.edu

- Doyle Loyalton sampling and mapping
- Modoc Plateau and Warner mountains sampling and mapping
- Southern Sierra Nevada sampling
- Mono and Great Basin sampling
- State Parks sampling and mapping



Northern CA Coast Vegetation Sampling and Mapping



VegCAMP

Project Managers –

Betsy Harbert, Betsy.Bultema@Wildlife.ca.gov

Nani Teves, Nani.Teves@Wildlife.ca.gov

Data Coordinator –

Rosie Yacoub, Rosalie.Yacoub@wildlife.ca.gov

Tukman Geospatial

Project Manager – Mark Tukman,

mark@tukmangeospatial.net

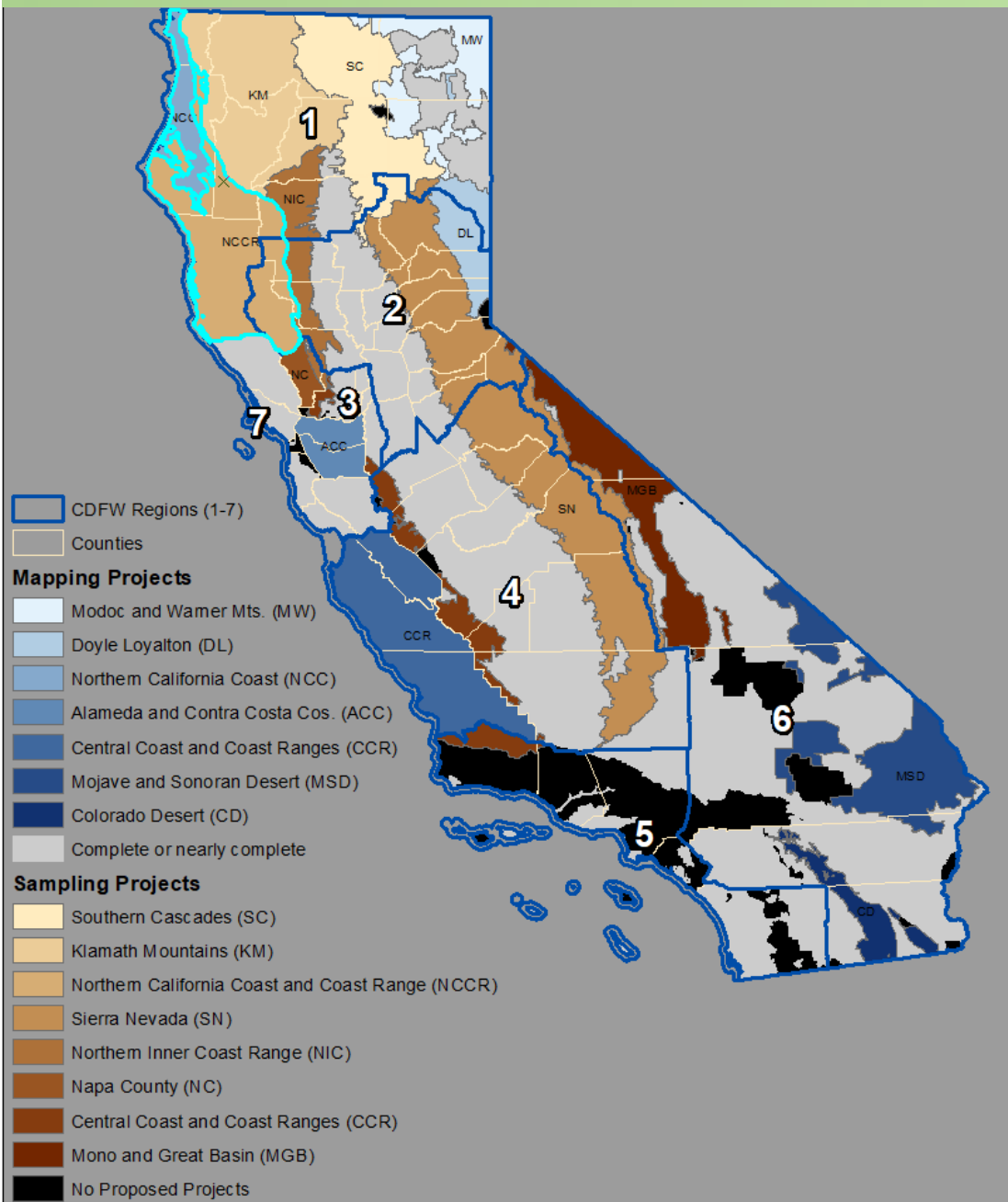
Aerial Information Systems

Project Manager – Debbie Johnson

California Native Plant Society

Project Manager - Julie Evens, jevens@cnps.org

Field and Data Coordinator - Jennifer Buck-Diaz
jbuckdiaz@cnps.org



Southern Cascades Vegetation Sampling



VegCAMP

Project Managers –

Jaime Ratchford, Jaime.Ratchford@wildlife.ca.gov

Nani Teves, Nani.Teves@Wildlife.ca.gov

Data Coordinator –

Monica Tydlaska, Monica.Tydlaska@Wildlife.ca.gov

Vollmar Natural Lands Consulting

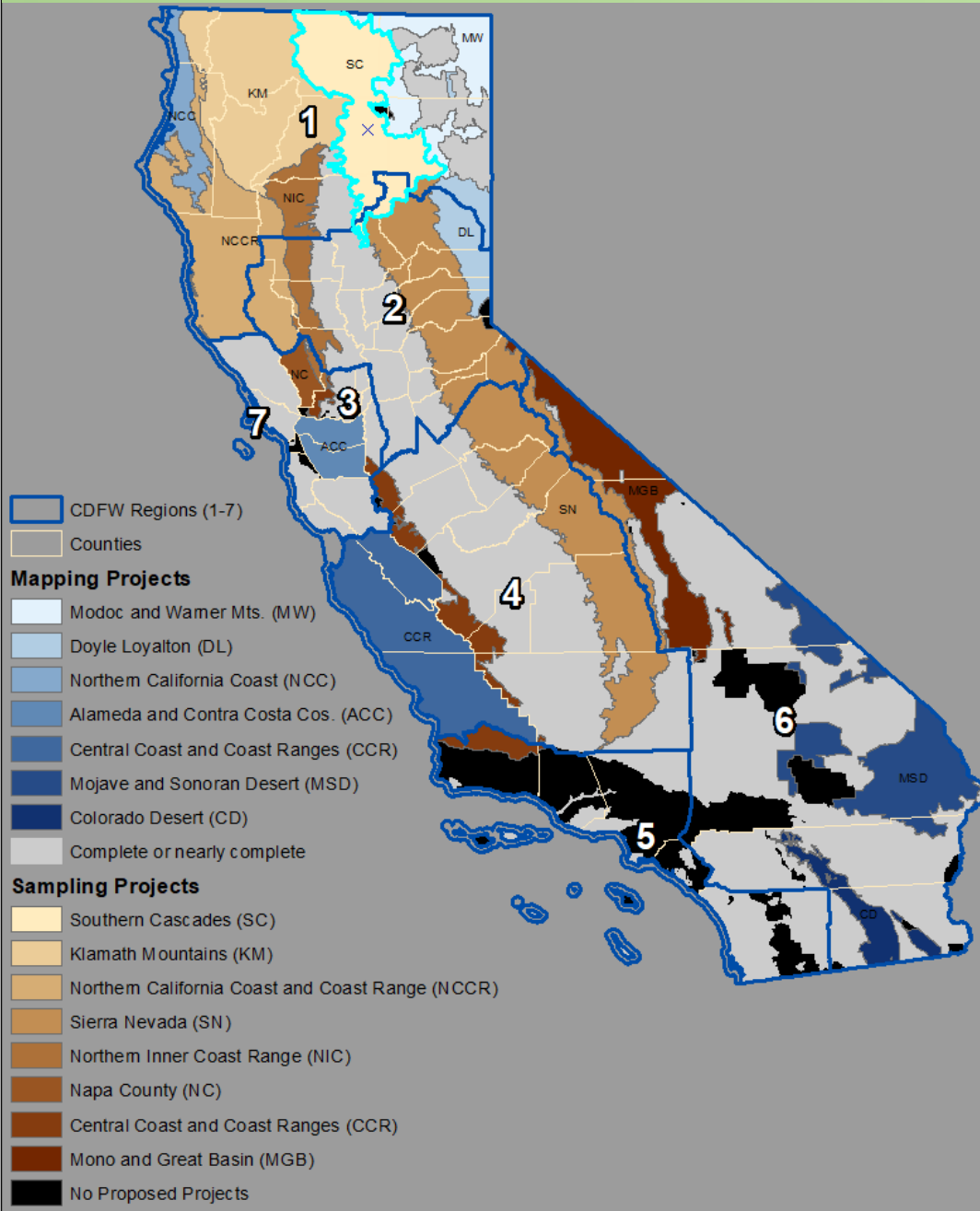
Project Manager – Jake Schweitzer,

jake@vollmarconsulting.com

Siskiyou BioSurvey

Assistant Project Manager - Gretchen Vos,

oregongretchen@yahoo.com



Klamath Mountains Vegetation Sampling



VegCAMP

Project Managers –

Betsy Harbert, Betsy.Bultema@Wildlife.ca.gov

Nani Teves, Nani.Teves@Wildlife.ca.gov

Data Coordinator –

Rosie Yacoub, Rosalie.Yacoub@wildlife.ca.gov

California Native Plant Society

Project Manager - Julie Evens, jevens@cnps.org

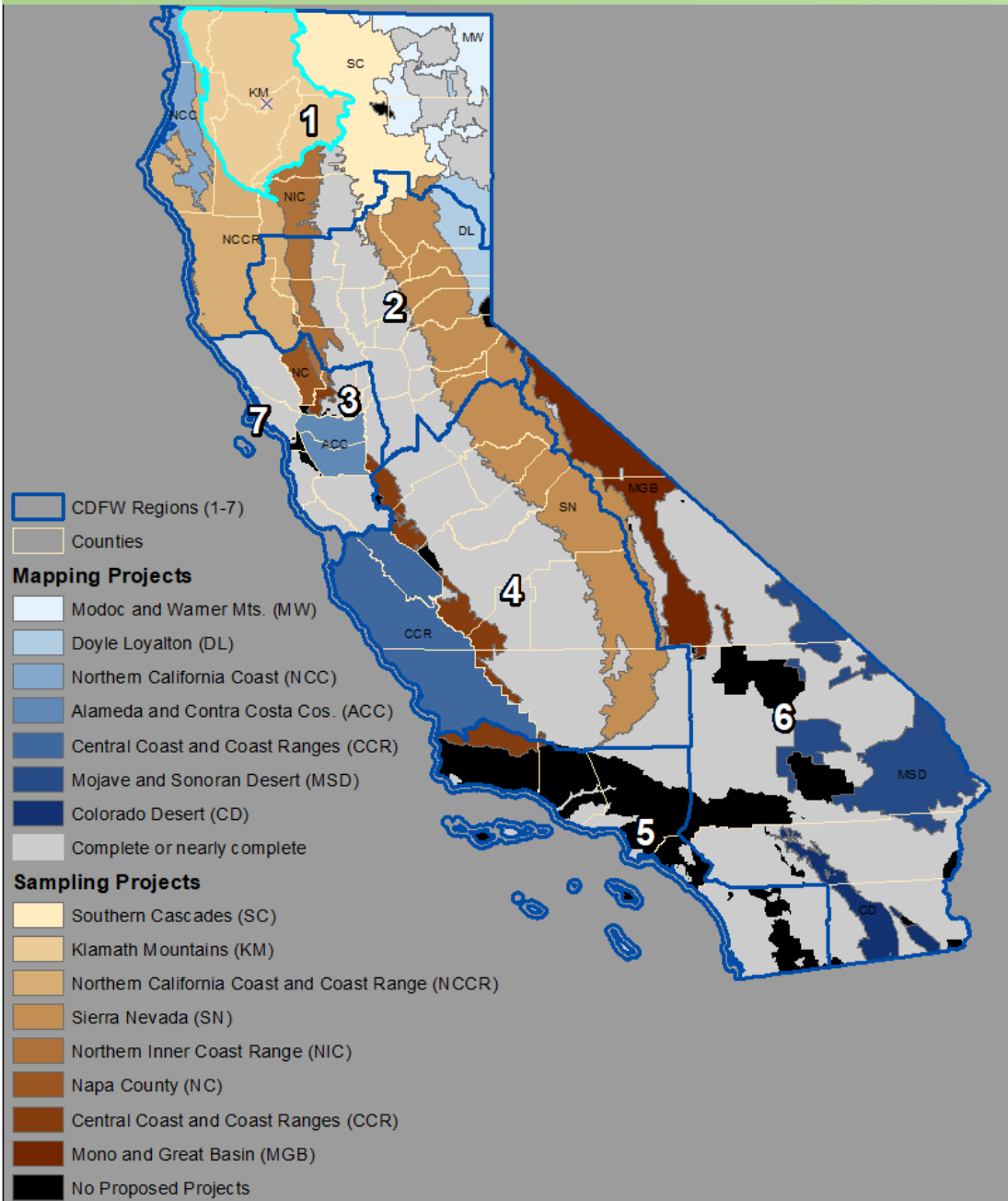
Field and Data Coordinator - Jennifer Buck-Diaz
jbuckdiaz@cnps.org

Cal Poly Humboldt

Project Manager/ Field and Data Coordinator -
Erik Jules, esj4@humboldt.edu

Bigfoot Trail

Field and Data Coordinator - Michael
Kauffmann, michaelkauffmann@gmail.com



UC Santa Cruz Arboretum Vegetation Sampling



VegCAMP

Project Managers –

Rachelle Boul, Rachelle.Boul@wildlife.ca.gov

Nani Teves, Nani.Teves@Wildlife.ca.gov

Field Liaison –

Todd Keeler-Wolf, Todd.Keeler-Wolf@wildlife.ca.gov

Data Coordinator –

Rosie Yacoub, Rosalie.Yacoub@wildlife.ca.gov

UC Santa Cruz

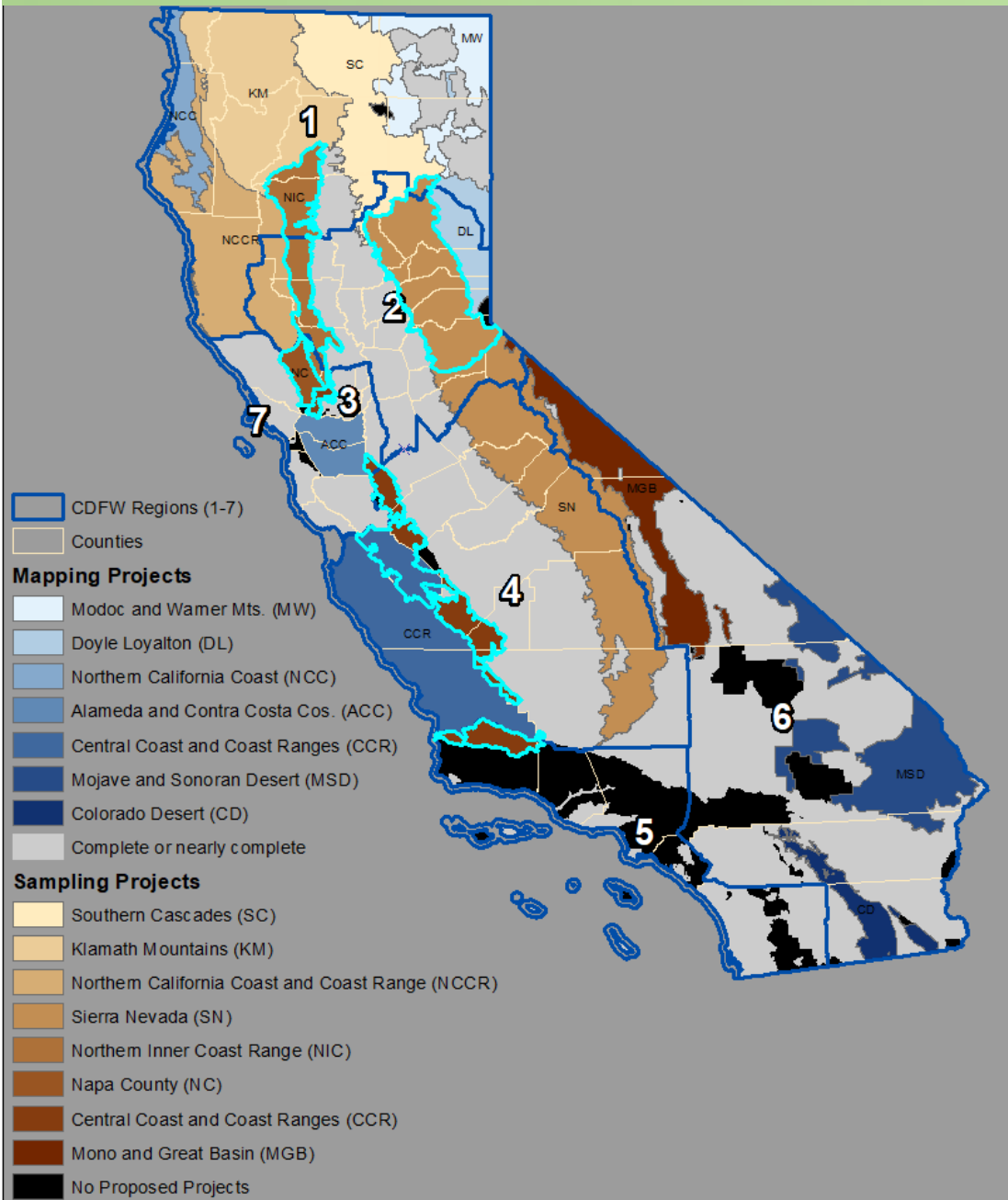
Project Manager - Brett Hall, brett@ucsc.edu

Field and Data Coordinators –

Lucy Ferneyhough, lferneyh@ucsc.edu

Alex Hubner, ahubner@ucsc.edu

- Northern Sierra Nevada sampling
- Northern Inner Coast Range and Napa County sampling
- Central Coast and Coast Ranges Sampling



Central CA Coast Vegetation Sampling and Mapping



VegCAMP

Project Managers –

Rachelle Boul, Rachelle.Boul@wildlife.ca.gov

Nani Teves, Nani.Teves@Wildlife.ca.gov

Data Coordinator –

Rosie Yacoub, Rosalie.Yacoub@wildlife.ca.gov

Coastal San Luis Resource Conservation District

Project Manager – Maurica Anderson,
manderson@coastalrcd.org

Resource Conservation District of Monterey Co.

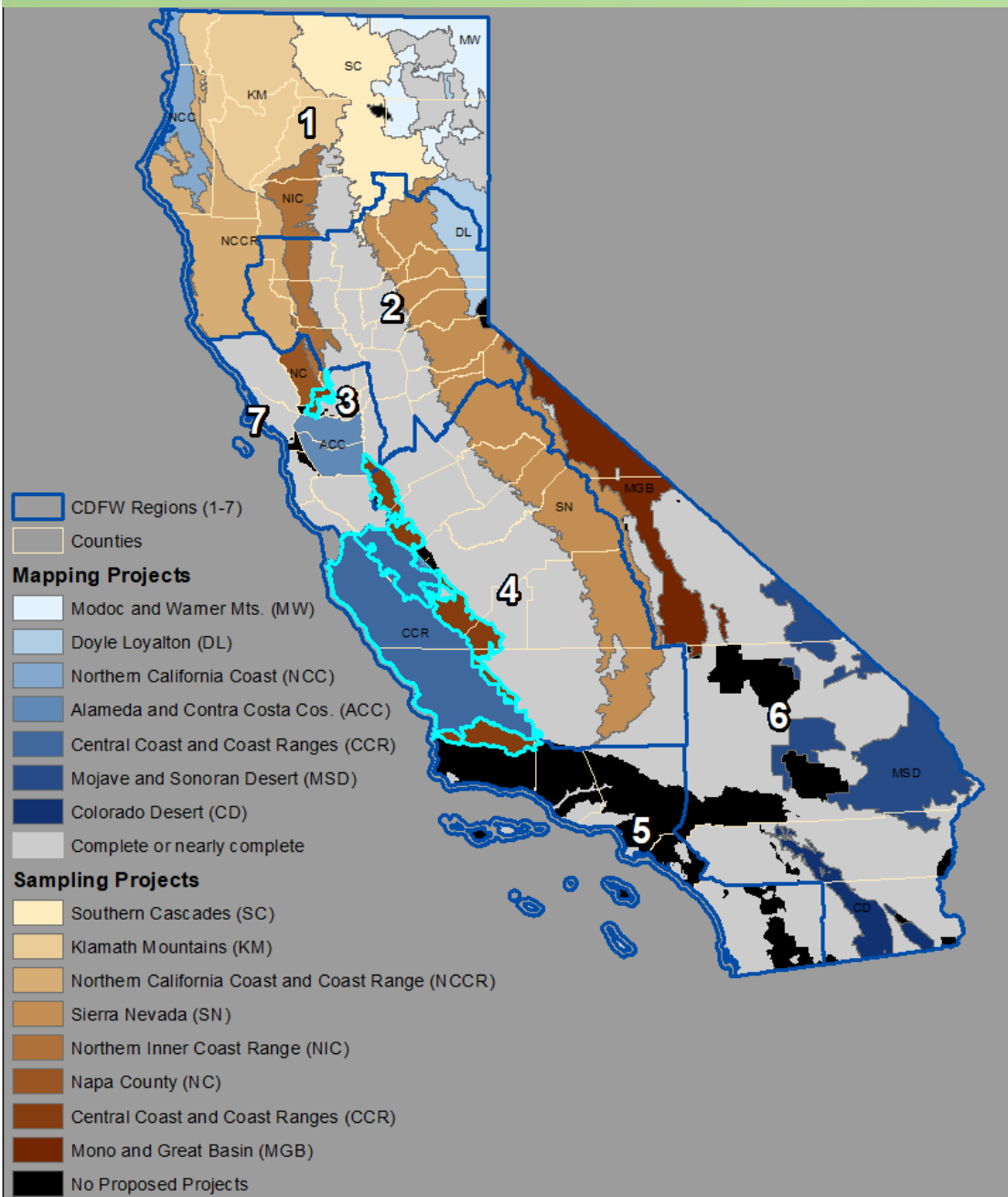
Tukman Geospatial

Project Manager – Mark Tukman,
mark@tukmangeospatial.net

California Native Plant Society

Project Manager - Julie Evens, jevens@cnps.org

Field and Data Coordinator – Mark Bibbo,
mbibbo@cnps.org



Alameda and Contra Costa Co. Sampling and Mapping



VegCAMP

Project Managers –

Rachelle Boul, Rachelle.Boul@wildlife.ca.gov

Nani Teves, Nani.Teves@Wildlife.ca.gov

East Bay Regional Park District

Project Manager – Dina Robertson,

DRobertson@ebparks.org

Tukman Geospatial

Project Manager – Mark Tukman,

mark@tukmangeospatial.net

California Native Plant Society

Project Manager - Julie Evens, jevens@cnps.org

Field and Data Coordinator – Mark Bibbo,

mbibbo@cnps.org

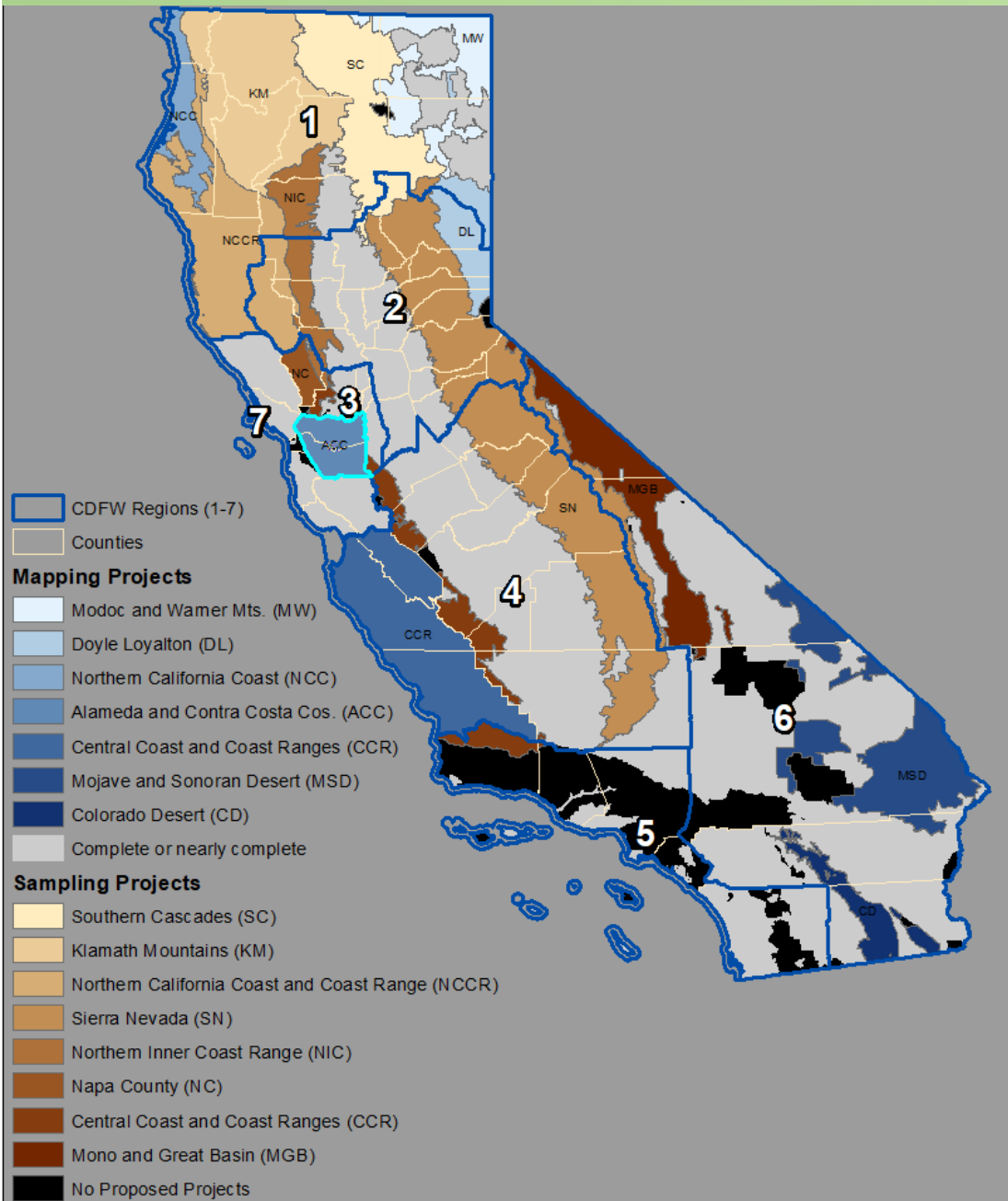
Nomad Ecology

Project Manager - Erin McDermott,

emcdermott@nomadecology.com

Benson Bio Consulting

Shelly Benson, shelly@bensonbioconsulting.com



Colorado Desert Vegetation Mapping Project



VegCAMP

Project Managers –

Rachelle Boul, Rachelle.Boul@wildlife.ca.gov

Nani Teves, Nani.Teves@Wildlife.ca.gov

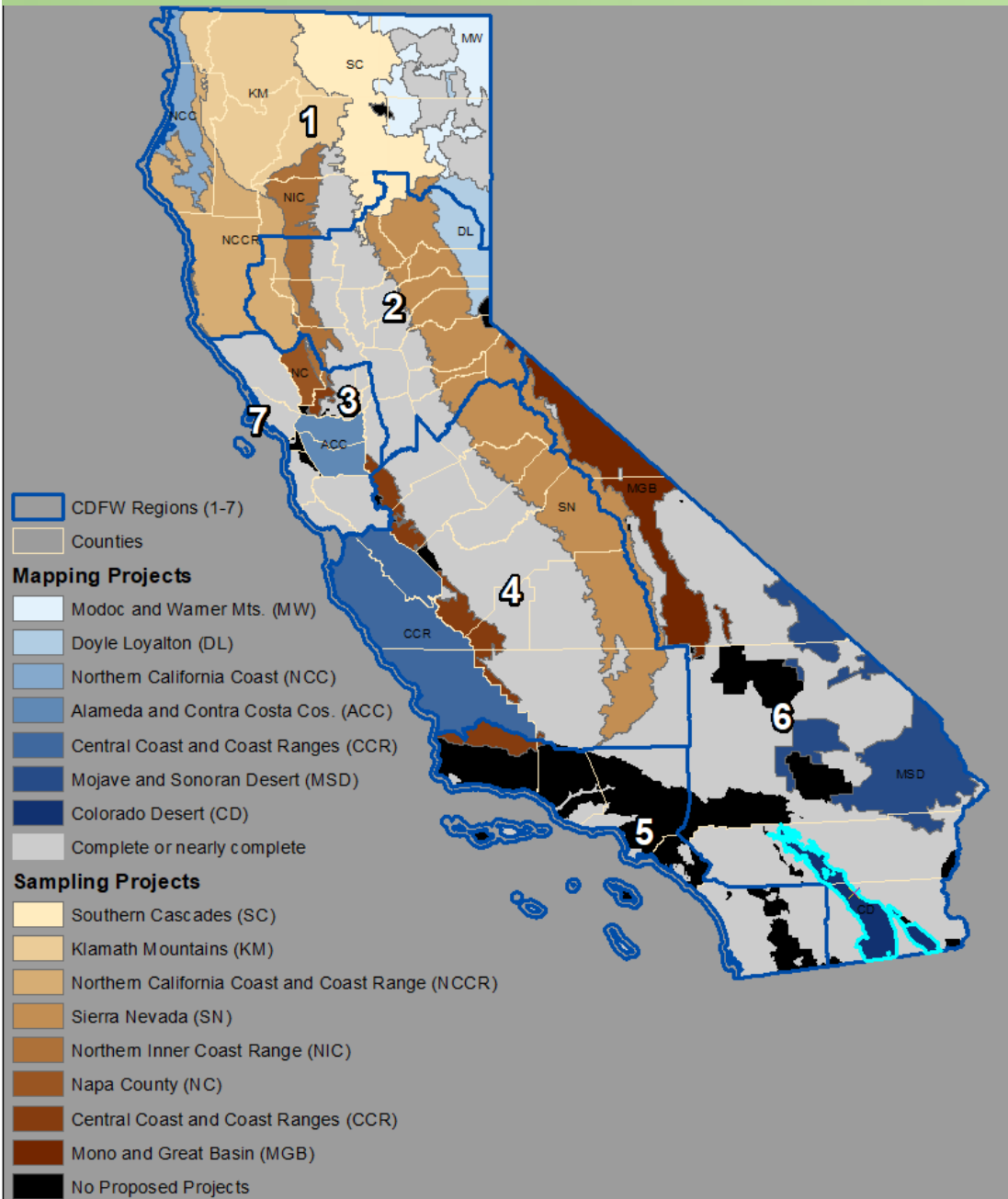
Data Coordinator –

Rosie Yacoub, Rosalie.Yacoub@wildlife.ca.gov

UC Riverside

Project Manager – Lynn Sweet,

lynn.sweet@ucr.edu



Mojave and Sonoran Desert Vegetation Mapping



VegCAMP

Project Managers –

Rachelle Boul, Rachelle.Boul@wildlife.ca.gov

Nani Teves, Nani.Teves@Wildlife.ca.gov

Data Coordinator –

Rosie Yacoub, Rosalie.Yacoub@wildlife.ca.gov

Aerial Information Systems

Project Manager – Debbie Johnson

California Native Plant Society

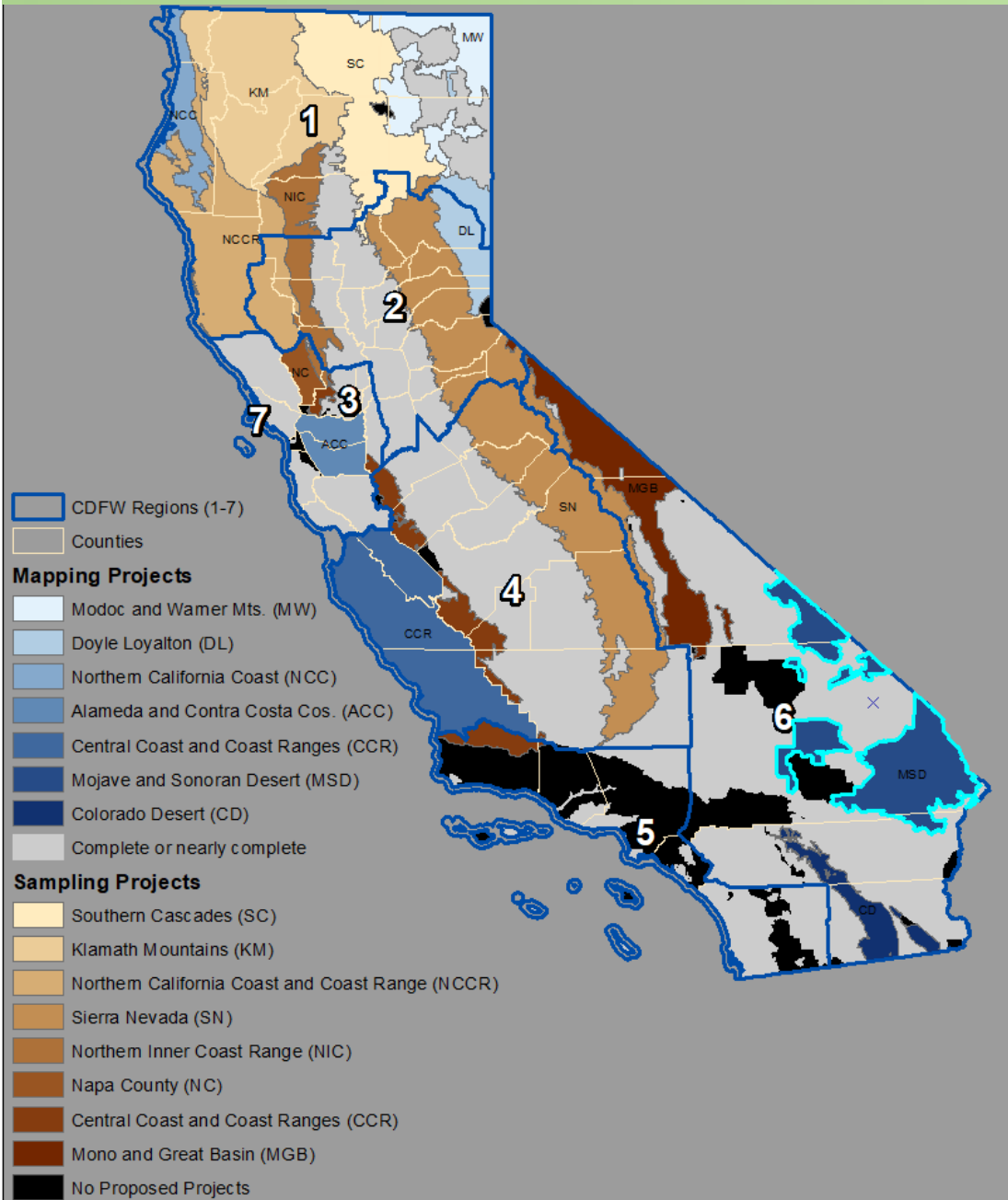
Project Manager - Julie Evens, jevens@cnps.org

Field and Data Coordinator - Jennifer Buck-Diaz
jbuckdiaz@cnps.org

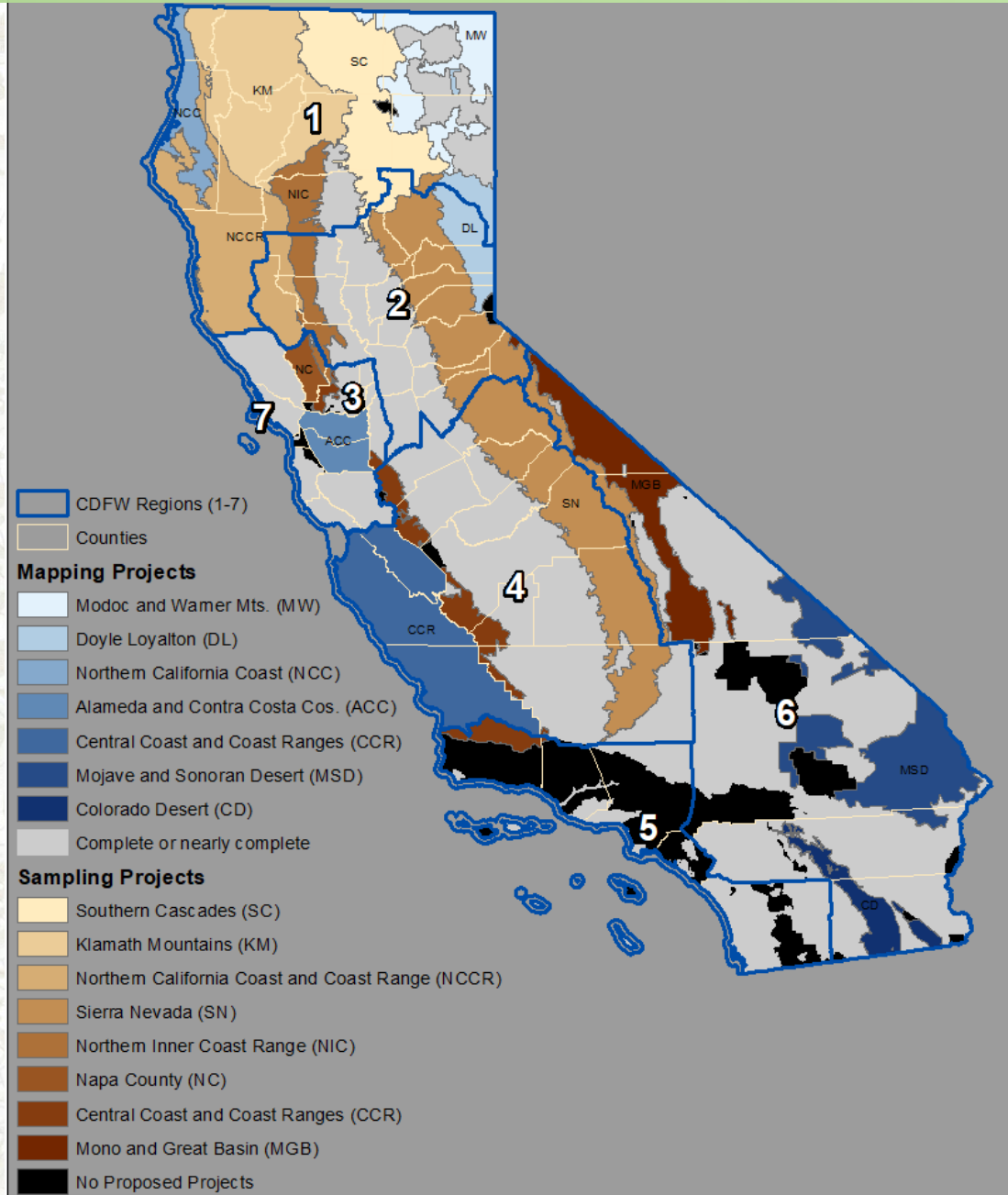
Ironwood Consultants

Project Manager – Dave Kesonie,

dave@ironwoodbio.com



2023 Vegetation Sampling and Mapping Projects



Cross-agency Collaboration



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Cross-project Collaboration



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- Others?



Collaboration is key!



CALIFORNIA
NATIVE PLANT
SOCIETY



COASTAL SAN LUIS
RESOURCE
CONSERVATION
DISTRICT



Benson Bio Consulting



UNIVERSITY OF CALIFORNIA
SANTA CRUZ



Aerial
Information
Systems

