

Presentation Outline



Was San Francisco a barren wasteland? What do we want its nature to be in the future?



1850: "The country about San Francisco Bay seems (so far as I have seen it) to be the most **sterile and barren waste** that you can well imagine... On ship board... there you are free from the **continual smother of sand** which fills the air on shore."

(Frank [Pearl] to his sister, Mrs. Theresa S. H. Pearl. July 8, 1850, Gold Rush letter, courtesy of The Bancroft Library)

Hidden Nature SF

Sponsored by:
SIMONS FOUNDATION

SCIENCE SANDBOX



-Reconstruct San Francisco's **historical ecology** as it was before the city (pre-Gold Rush)

 -Engage non-scientists in the ecological past and hidden nature of their neighborhoods









Historical Ecology Sources

Photos



- Landscape photos
- Aerial imagery
- Plus sketches, paintings...

Textual data



- Herbarium records & specimen data
- Newspaper articles
- Public Land Survey records
- Explorer's diaries

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Maps



- Soil surveys
- US Coast Survey T-sheets
- USGS quads
- County Surveyor's records
- Local plat maps and property surveys

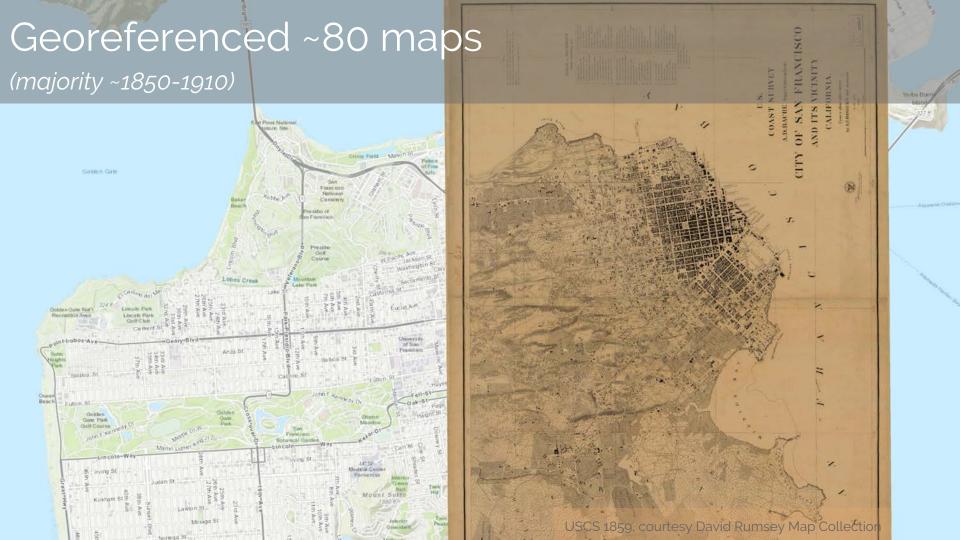
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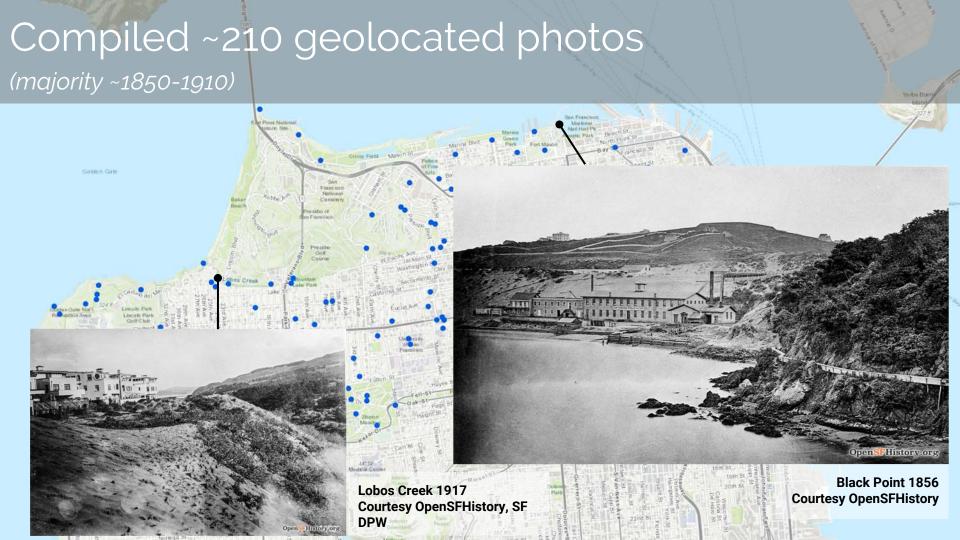
From local/regional archives...

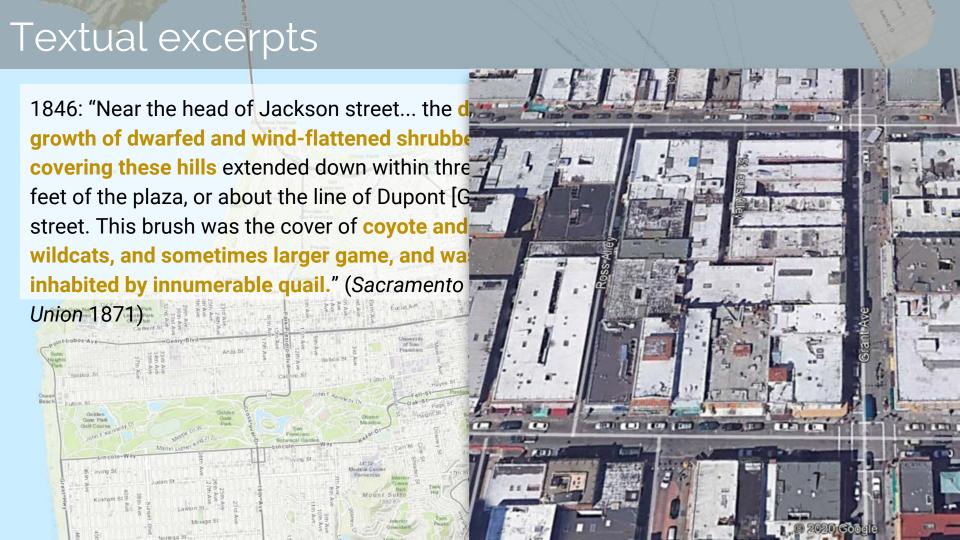
- SF Public Library
- California Historical Society
- California State Library
- California State Archives
- The Bancroft Library
- UCB Earth Science & Map Library
- Society of California Pioneers
- Library of Congress
- Online databases
- ..



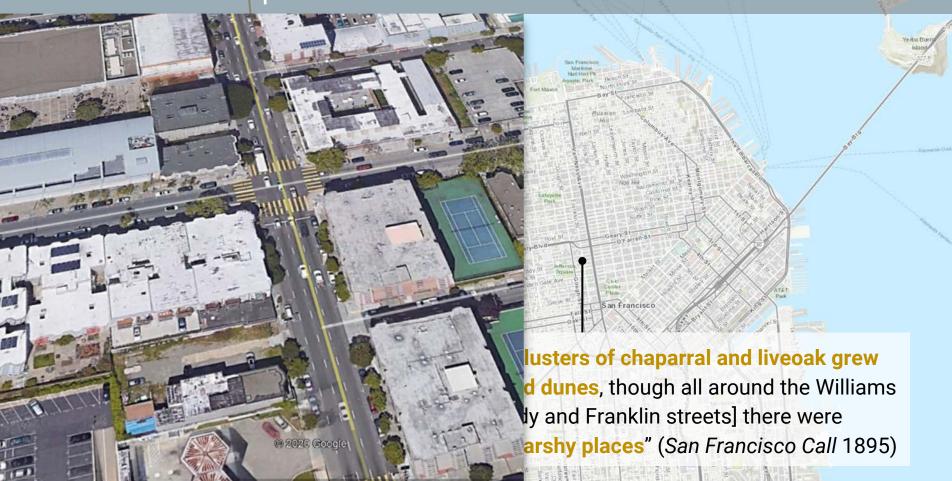








Textual excerpts

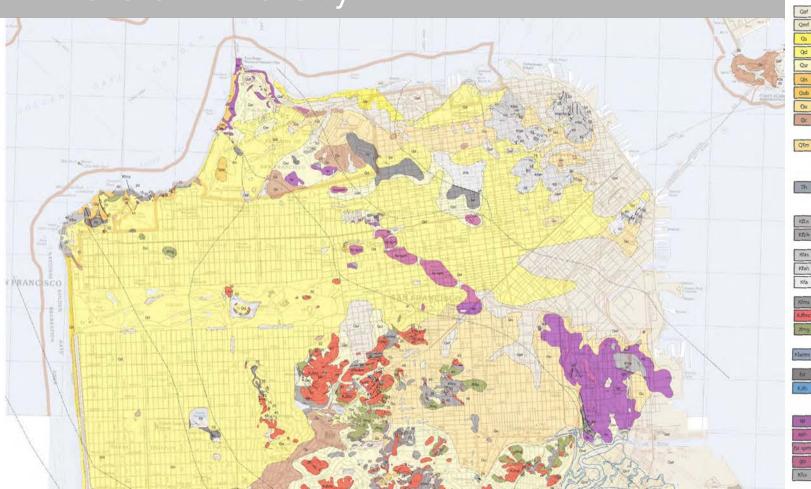


'Eco-Detective' Work





Drivers of Diversity



LIST OF MAP UNITS

SURFICIAL DEPOSITS

Artificial fill Artificial fill over buy mud

Beach deposits

Done sand

Slope and ravine fill

Landstide deposits

Older beach deposits.

Undifferentiated surficial deposits

Colma Formation

OVERLAP STRATA

Merced Formation

FRANCISCAN COMPLEX

Coastal Belt

SAN BRUNO MOUNTAIN TERRANE

Central Belt

BOLINAS RIDGE TERRANE

Sandatone

ALCATRAZ TERRANE Sandstone

Sandstone and shale

MARIN HEADLANDS TERRANE

ANGEL ISLAND TERRANE

Metasandstone

Sheared sandstone and shale with small blocks of other rock.

High-grade block.

FRANCISCAN OR COAST RANGE OPHIOLITE

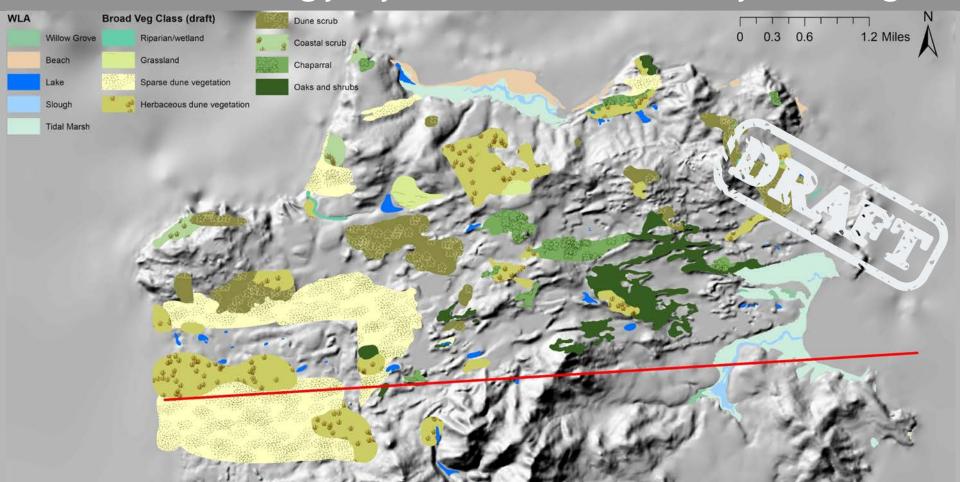
HUNTERS POINT SERPENTINITE-MATRIX MÉLANGE Scrpentinite with small blocks of other rock

Hard serpentinite

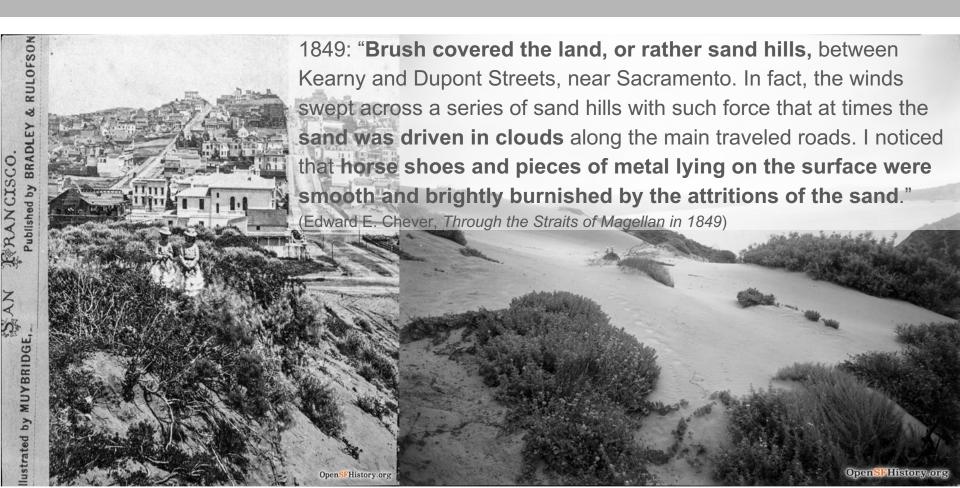
Intermixed perpentitute and sheared sandstone and shale

Princiscan(?) sandstone

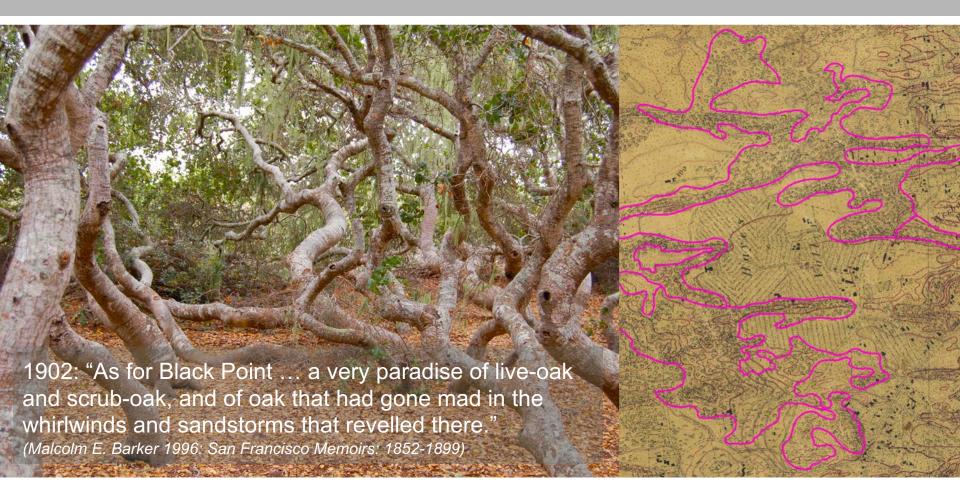
Historical Ecology Synthesis: Preliminary Findings



Dune scrub

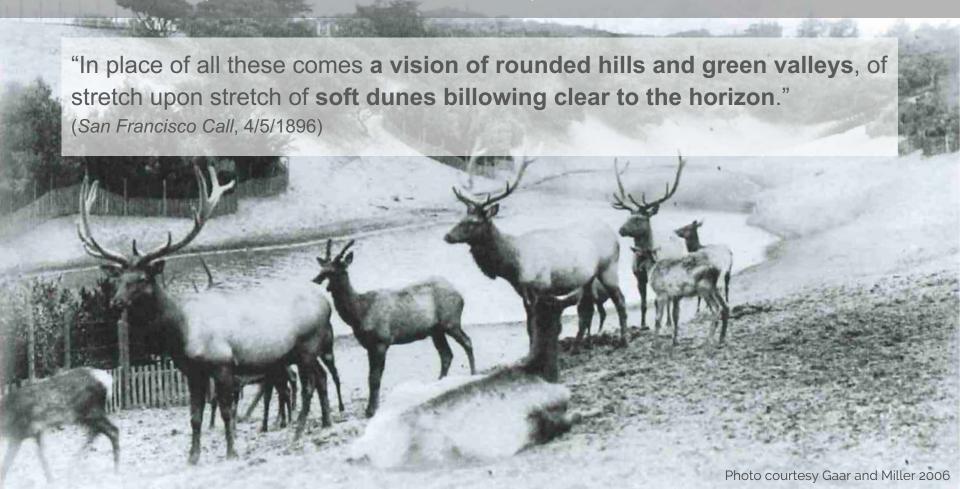


Dwarf Oak Woodland





Dwarf Oak, Interdune Ponds, Tule Elk









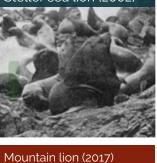






(year last

















Wildlife Losses | Initial results

Species-habitat associations associated with **extirpation** (local extinction)

- Grassland
- Riparian habitats
- Shrublands

Species traits associated with extirpation

- Larger species
- Habitat specialists

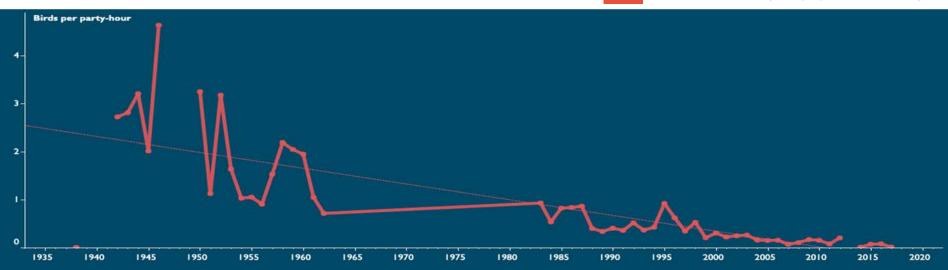


(year last documented)

Functionally

Functionally extirpated







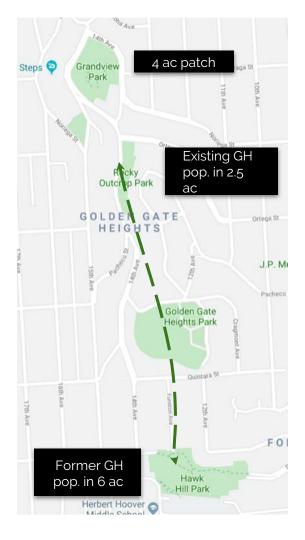


Nature in the City: Green Hairstreak Corridor

A community effort to plant native host plants for the green hairstreak butterfly between parks where the species is currently found







Return of long-lost bees creating a lot of Presidio buzz



Peter Fimrite | March 29, 2019 | Updated: March 29, 2019 8:25 a.m.





San Francisco Biodiversity Program & Policy



Biodiversity Goals

Background and Need

Citywide Biodiversity Policy

City Departments & Their Public Commitments

Yerba Buena Chapter – CNPS

Contact

Home Calendar

Biodiversity SF

Exploring

About

Volunteer

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SF Biodiversity Vision 2020

Thanks to all who joined us for this event!

The Yerba Buena Chapter of CNPS is honored to have hosted "SF Biodiversity Vision 2020" and we are grateful for the enthusiastic collaboration by all of you who made it so interesting and fun for us.

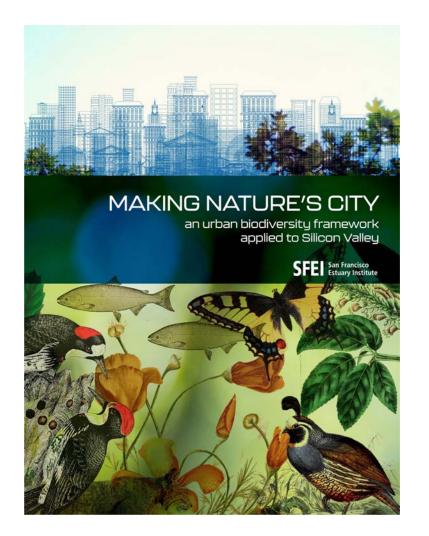
"SF Biodiversity Vision 2020" Brainstorm session results here

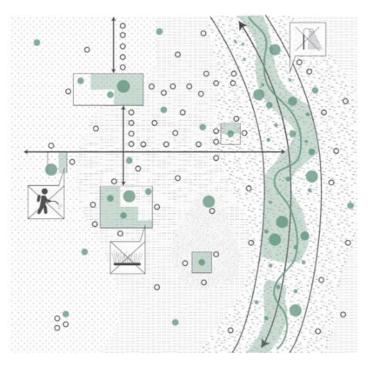
Ready to dig a little deeper?

Please check out our chapter's SF Biodiversity Resource Page

Continue the Conversation: Join the BiodiversitySF Forum

One of the ideas presented at the event was the creation of a **Biodiversity** forum for our community to share future ideas, agency and community meeting details, information related to biodiversity, best practices, educational opportunities, and restoration and















For more information and updates, visit: hidden-nature.org

If you have questions or want to sign up for more information, email: laurens@sfei.org

