Building a case for Ecosystem Services in Climate Adaption

Native Perspectives on Climate Change and Impacts to Cultural Resources

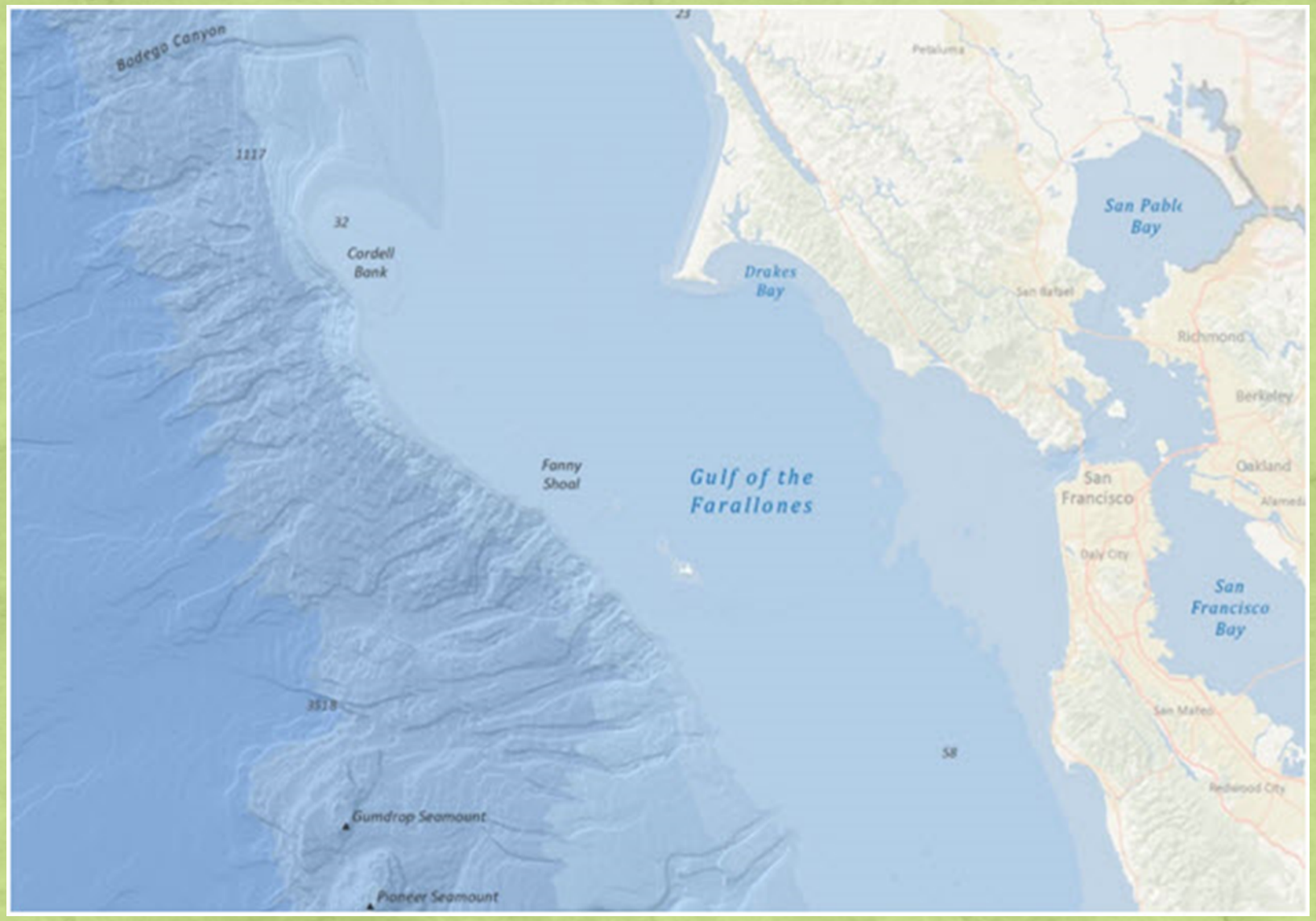
Nick Tipon
Member and Elder, Graton Rancheria

My thanks to

The Wilton Rancheria

for allowing me to be on their lands.

FEDERATED INDIANS OF GRATON RANCHERIA
TERRITORY MAP
2008
Healdsburg
Windsor
Guerneville
Forestville
Monte Rio
Graton Rancheria
Graton
Santa Rosa
Duncans Point
Occidental
Sebastopol
Glen Ellen
Rohnert Park
Sonoma
NAPA COUNTY
SONOMA COUNTY
MARIN COUNTY
PACIFIC OCEAN
Marshall
Point Reyes Station
Novato
Olema
Lagunitas-Forest Knolls
Fairfax
San Rafael
Point Reyes
DRAKES BAY
SAN PABLO BAY
CONTRA COSTA COUNTY
SOLANO COUNTY
Tiburon
Mill Valley
Bolinas
Angel Island
SAN FRANCISCO BAY
ALAMEDA COUNTY
San Francisco
CALIFORNIA
Mapped Area
Explanation
Urban Area
Major Road
US HWY 101
County Boundary
FIGR Territorial Boundary
0 1.5 3 6 Miles
0 2.5 5 10 Kilometers
Projection: UTM Zone 10N Datum: NAD83
FIGR/EPA map created by Rick Waterman 2/13/2008


Bodega Canyon
1117
32
Cordell Bank
Drakes Bay
Petaluma
San Pablo Bay
San Rafael
Richmond
Berkeley
Oakland
Alameda
San Francisco
Daly City
San Francisco Bay
San Mateo
Redwood City
Fanny Shoal
Gulf of the Farallones
3518
58
Gumdrop Seamount
Pioneer Seamount

Petaluma
Point Reyes National Seashore
Olema Valley
San Rafael
Marin Headlands
16,000 cal B.P.
(110m bmsl)
14,000 cal B.P.
(90m bmsl)
12,000 cal B.P.
(62m bmsl)
10,000 cal B.P.
(40m bmsl)
6000 cal B.P.
(8m bmsl)
8000 cal B.P.
(20m bmsl)
Farallon Islands
San Francisco
San Francisco Watershed
0 2 4 6 8 10 12
Miles
(adapted from NOAA 2003)

We are losing our culture.

What are the effects of losing our physical environment

What are the effects of losing “cultural traditions’

What is the effect of losing our connection to our past?

In our language, there is no word for wilderness.