California Offshore Wind Industry Summit

California Data Basin and Maps
A Busy Ocean and Conflicting Uses: Implications for OSW

March 13, 2018

California Offshore Wind Energy Gateway

In support of the Intergovernmental Renewable Energy Task Force

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What is the California Offshore Wind Energy Gateway?

What can I do?

How do I start exploring?

The Offshore Renewable Wind Energy Gateway assembles geospatial information on ocean wind resources, ecological and natural resources, ocean commercial and recreational uses and community values. This information will help identify areas off of California that are potentially suitable for wind energy generation.

read more

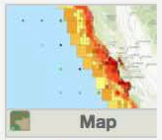
California Marine & Coastal Energy

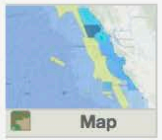
California Marine & Coastal Management

California Marine & Coastal Ecology and Natural Resources

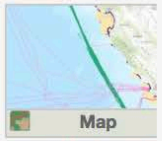
California Marine Fishing and Traditional Uses

Featured Items

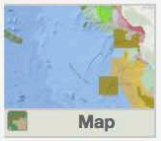

Map
California Commercial Fishing Recent History


Map
West Coast USA Federal and State Marine Protected Areas

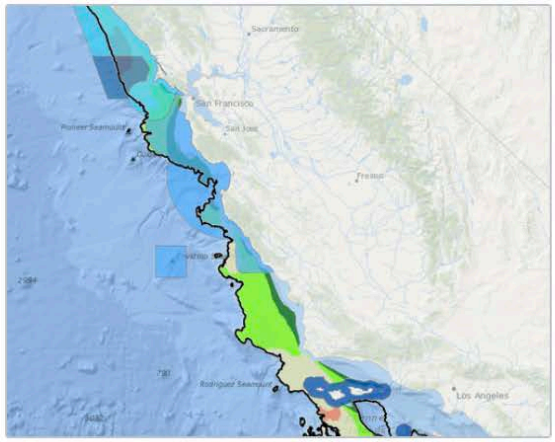
Map
California Offshore Wind Resources


Map
Central California Offshore Use Zones

Map
Central California Offshore Geology and Wind Technology Depth Zones


Map
Central California Offshore Biological Resources

California Off-Shore Wind Resources

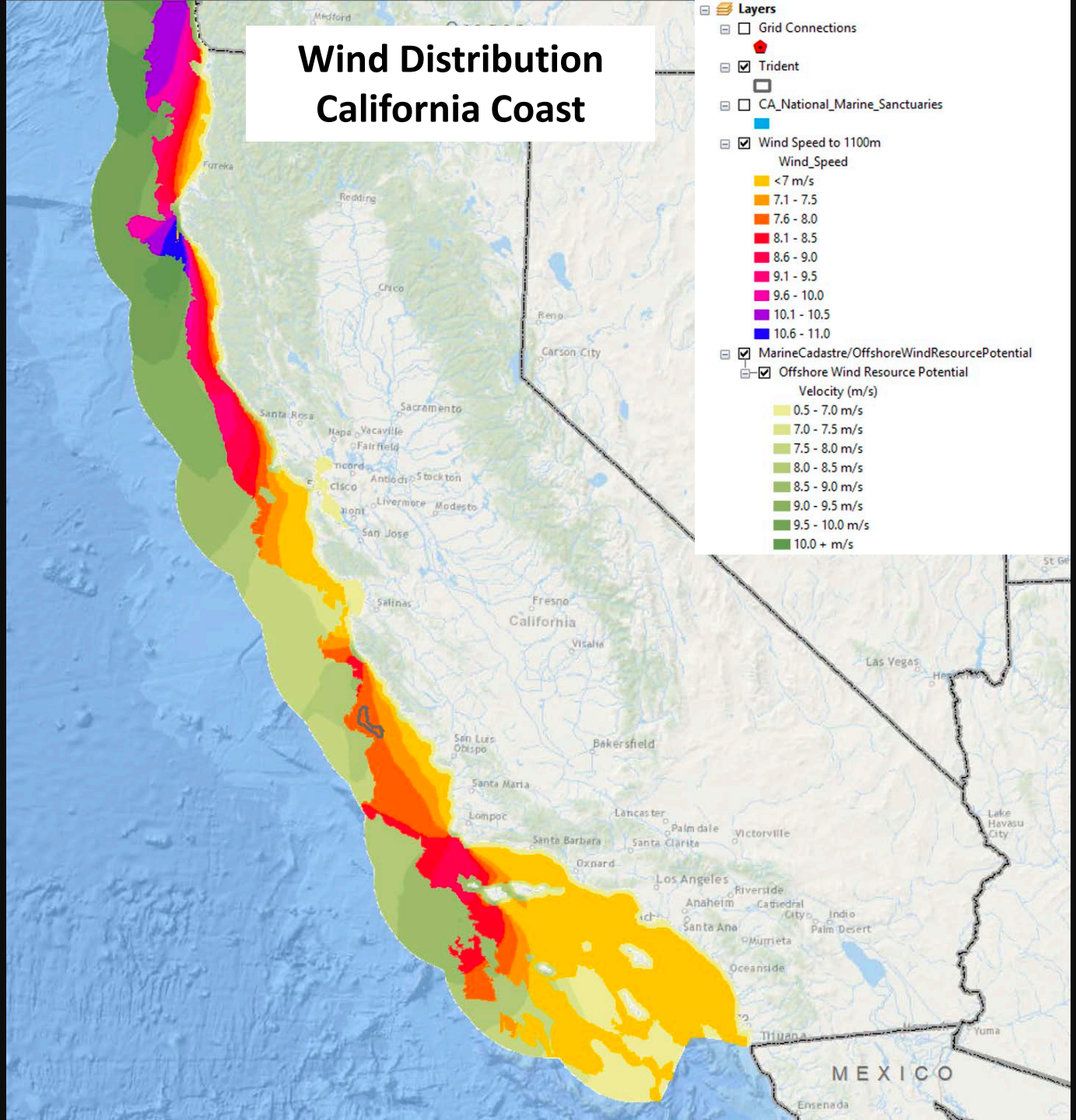


This map is comprised of spatial datasets provided by BOEM to highlight wind resources along the coast of California along with some other designations.

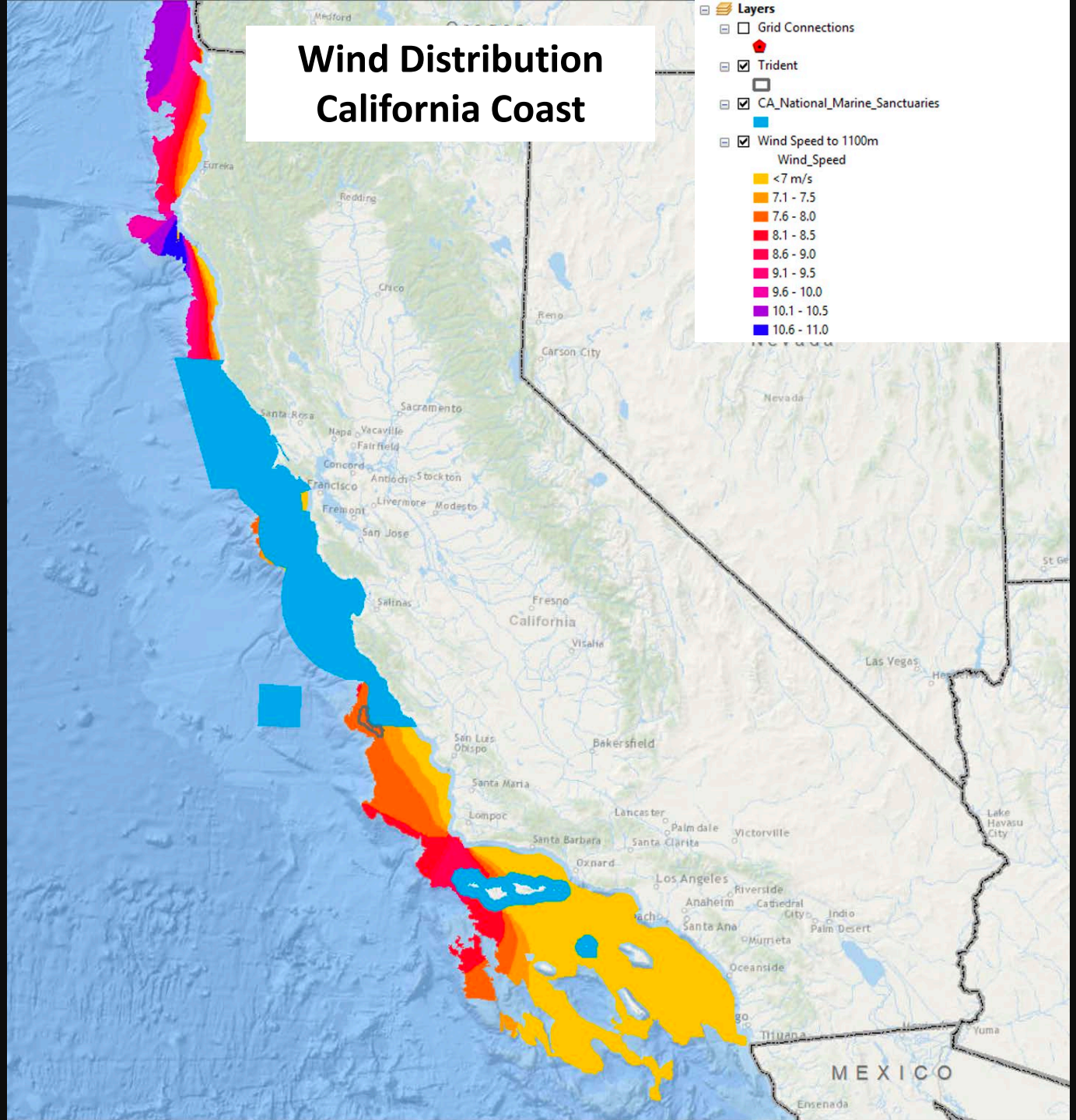
Download the Fact Sheet & Get Involved

Follow Progress

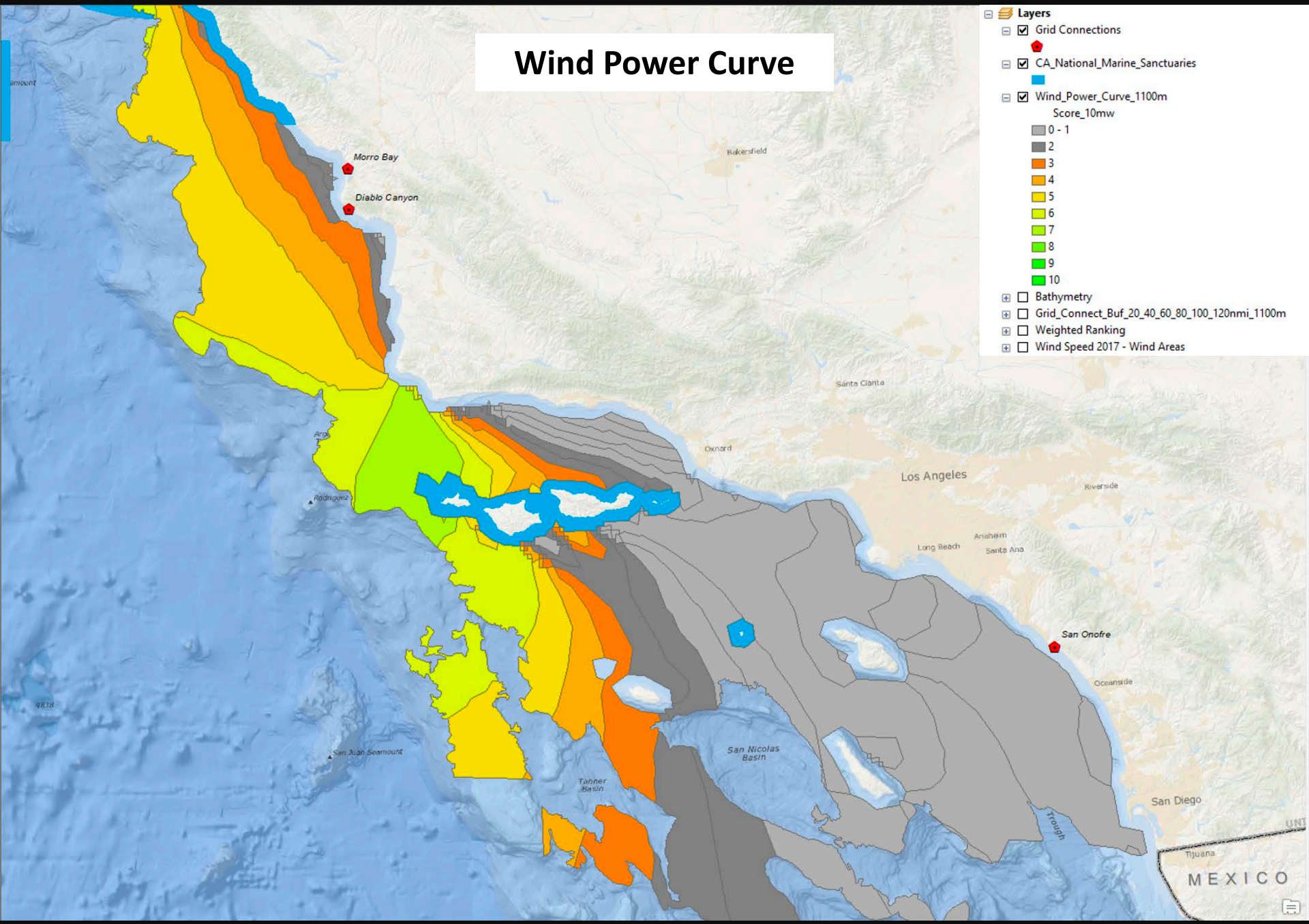
Wind Distribution California Coast



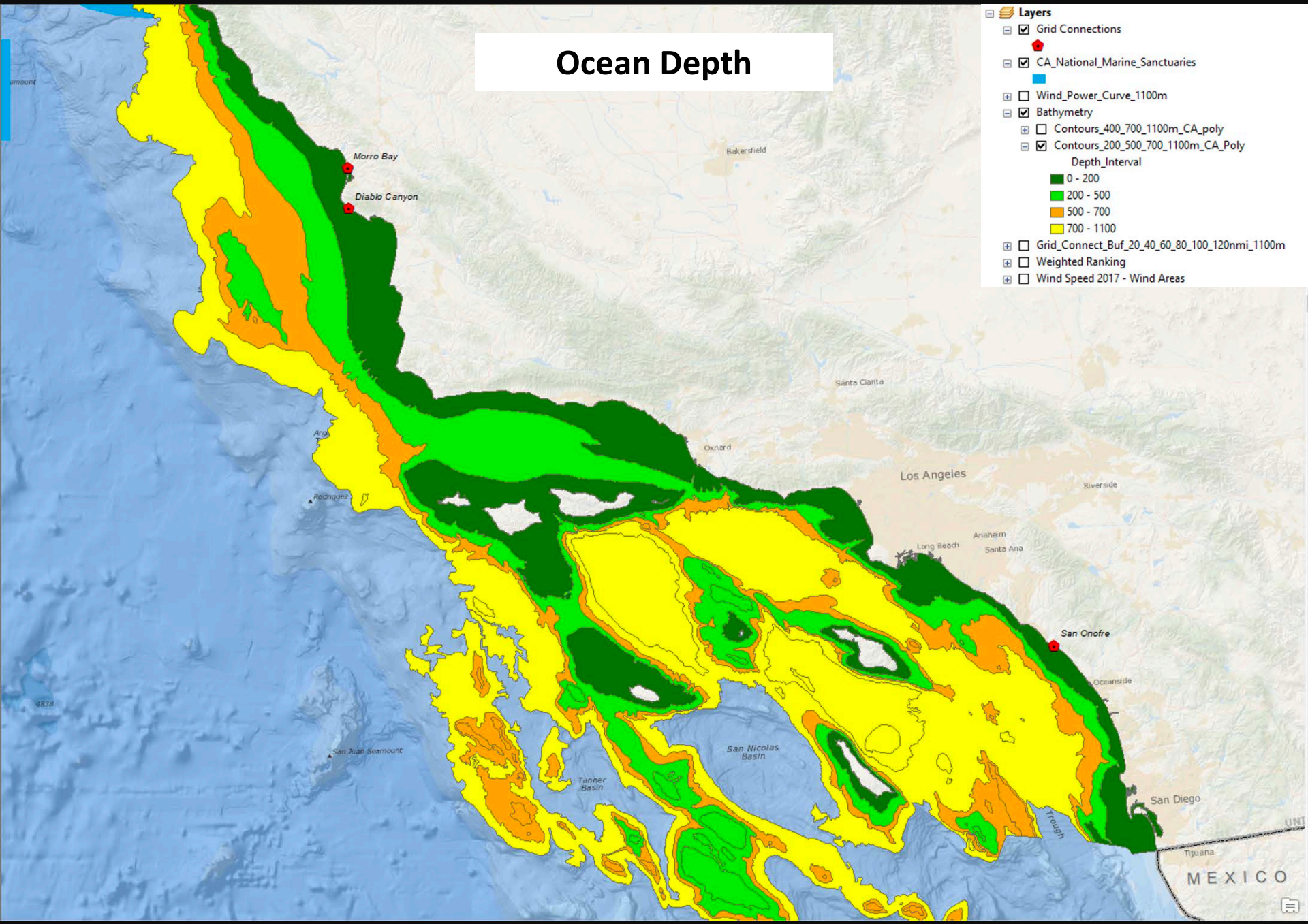
Wind Distribution
California Coast



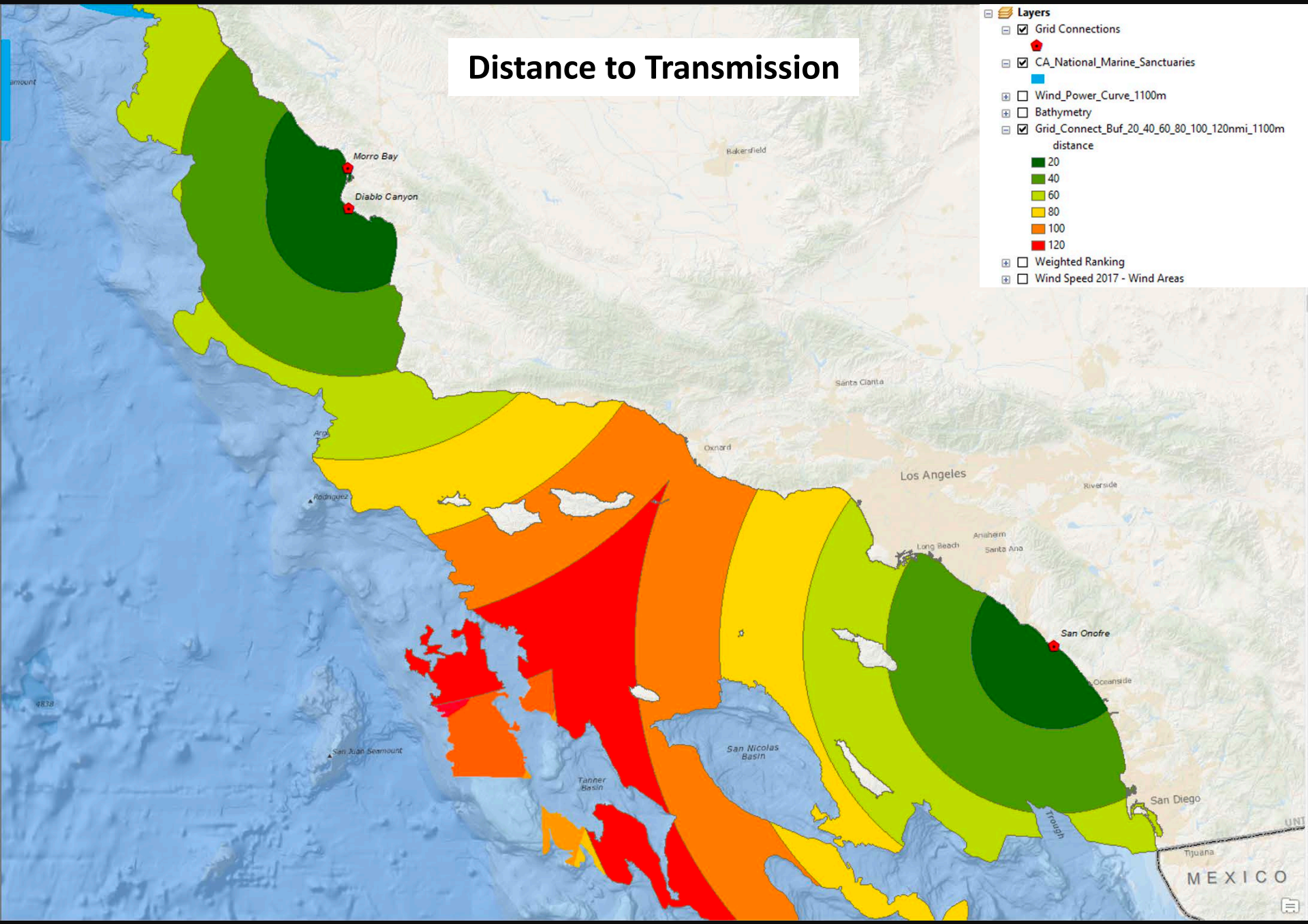
Wind Power Curve



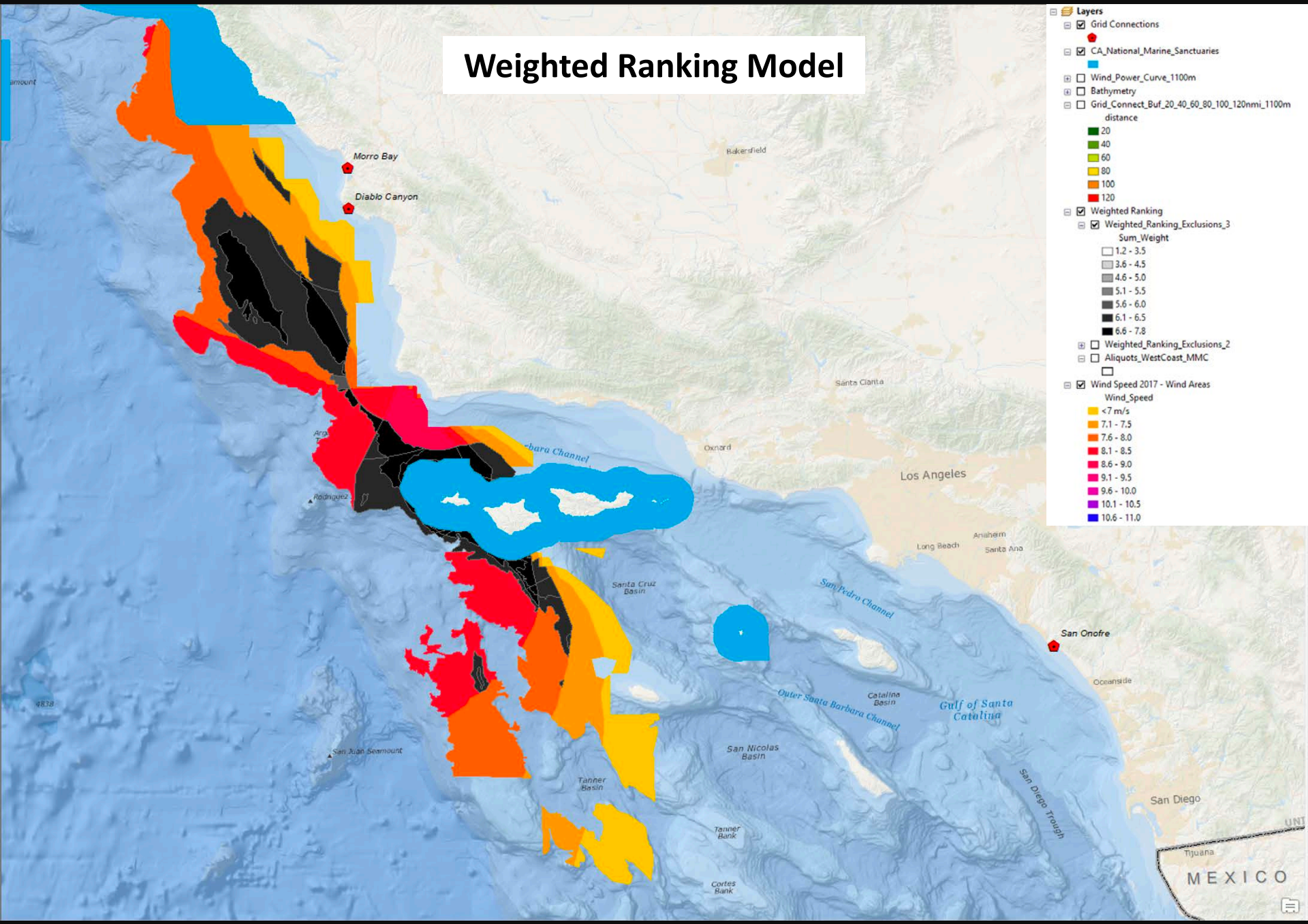
Ocean Depth

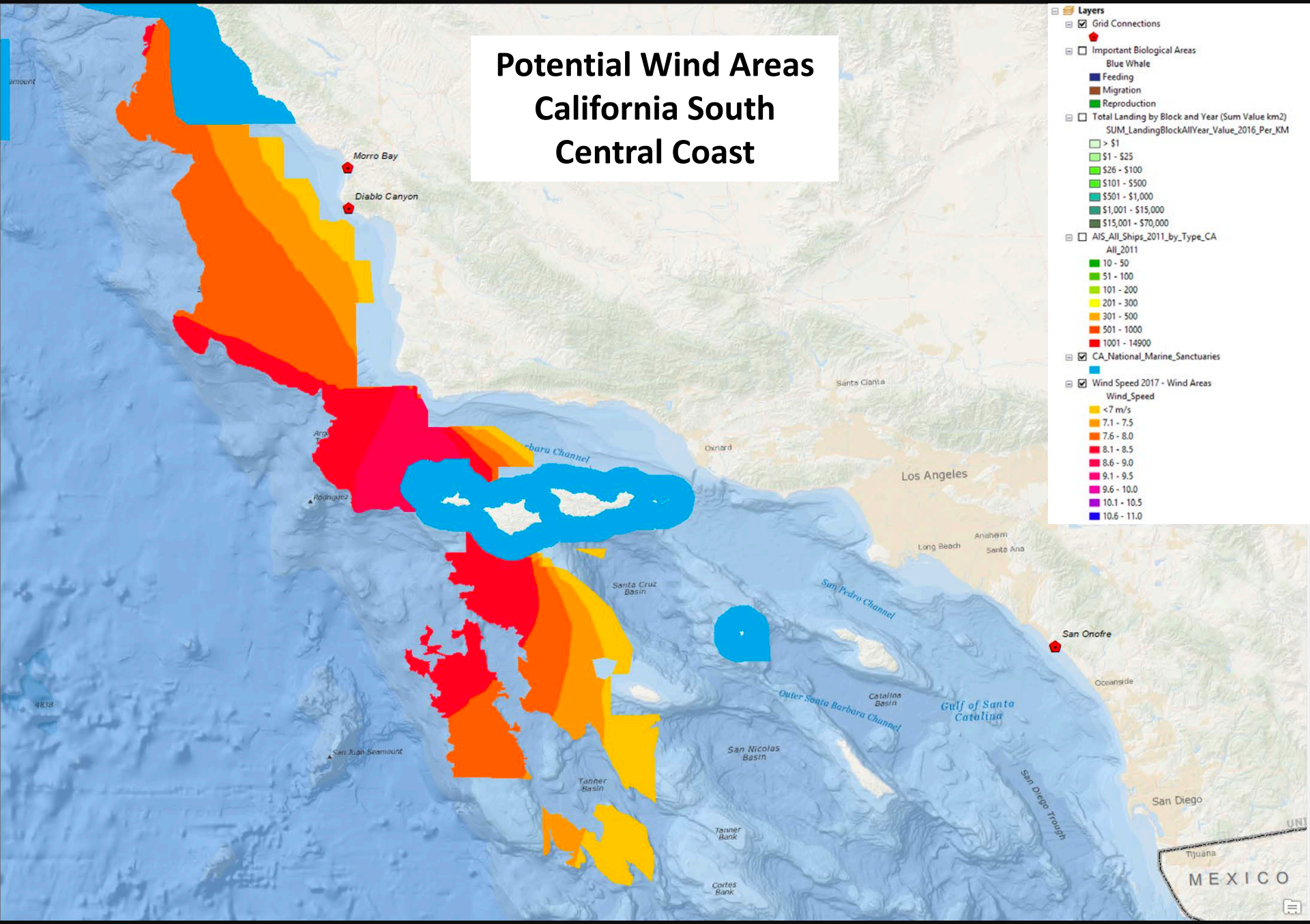

Layers
Grid Connections
CA_National_Marine_Sanctuaries
Wind_Power_Curve_1100m
Bathymetry
Contours_400_700_1100m_CA_poly
Contours_200_500_700_1100m_CA_Poly
Depth_Interval
0 - 200
200 - 500
500 - 700
700 - 1100
Grid_Connect_Buf_20_40_60_80_100_120nmi_1100m
Weighted Ranking
Wind Speed 2017 - Wind Areas
Morro Bay
Diablo Canyon
Bakersfield
Santa Clarita
Oxnard
Los Angeles
Riverside
Anaheim
Long Beach
Santa Ana
San Onofre
Oceanside
San Diego
Tijuana
MEXICO
Rodriguez
San Juan Seamount
San Nicolas Basin
Tanner Basin
Trough

Distance to Transmission

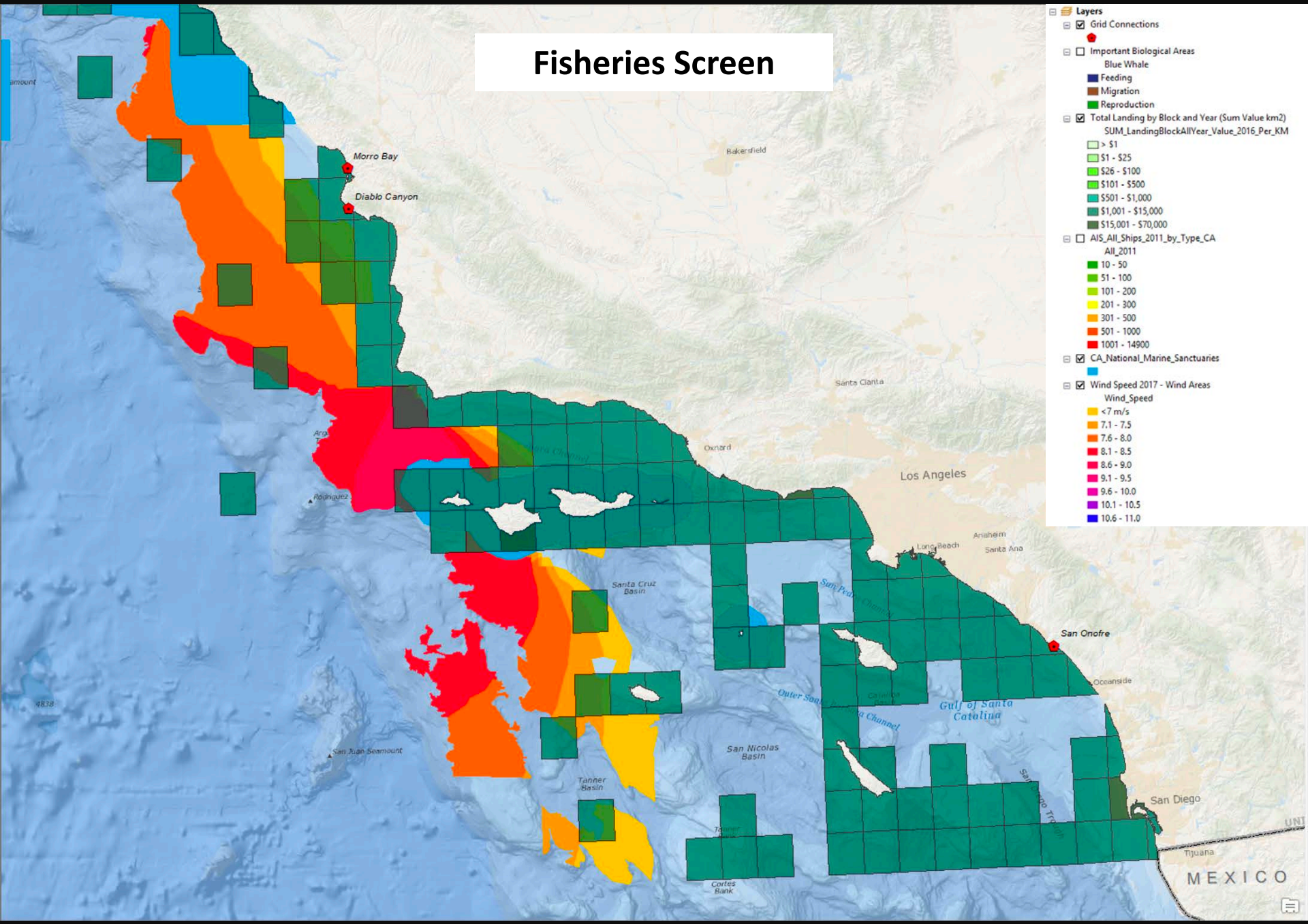


Weighted Ranking Model

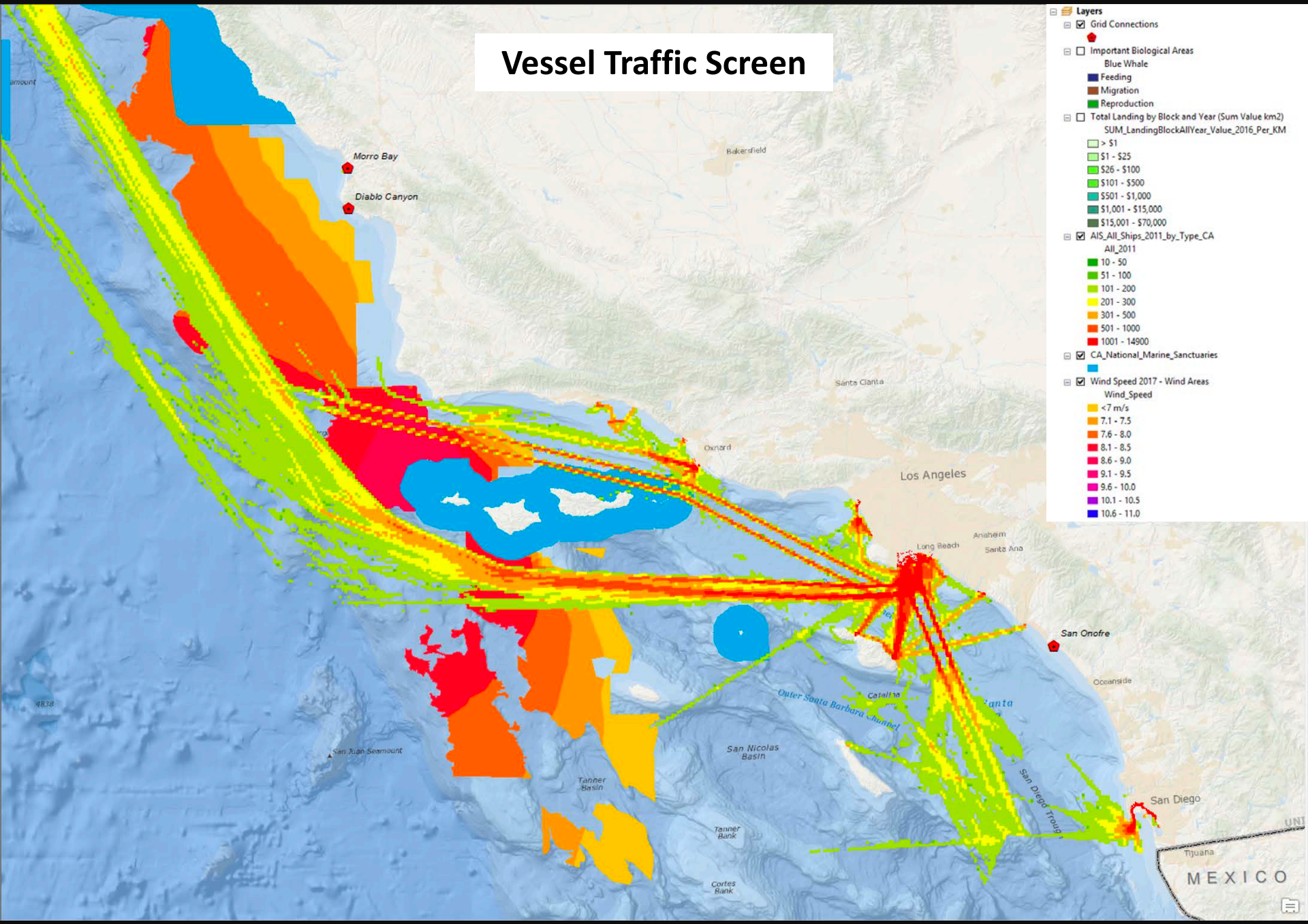



Potential Wind Areas
California South
Central Coast
Layers
Grid Connections
Important Biological Areas
Blue Whale
Feeding
Migration
Reproduction
Total Landing by Block and Year (Sum Value km2)
SUM_LandingBlockAllYear_Value_2016_Per_KM
> $1
$1 - $25
$26 - $100
$101 - $500
$501 - $1,000
$1,001 - $15,000
$15,001 - $70,000
AIS_All_Ships_2011_by_Type_CA
All_2011
10 - 50
51 - 100
101 - 200
201 - 300
301 - 500
501 - 1000
1001 - 14900
CA_National_Marine_Sanctuaries
Wind Speed 2017 - Wind Areas
Wind_Speed
<7 m/s
7.1 - 7.5
7.6 - 8.0
8.1 - 8.5
8.6 - 9.0
9.1 - 9.5
9.6 - 10.0
10.1 - 10.5
10.6 - 11.0
Morro Bay
Diablo Canyon
Santa Clarita
Oxnard
Los Angeles
Long Beach
Anaheim
Santa Ana
San Onofre
Oceanside
San Diego
Tijuana
MEXICO
Santa Cruz Basin
San Pedro Channel
Outer Santa Barbara Channel
Catalina Basin
Gulf of Santa Catalina
San Nicolas Basin
Tanner Basin
Tanner Bank
Cortes Bank
San Diego Trough
San Juan Seamount
Rodriguez
4838

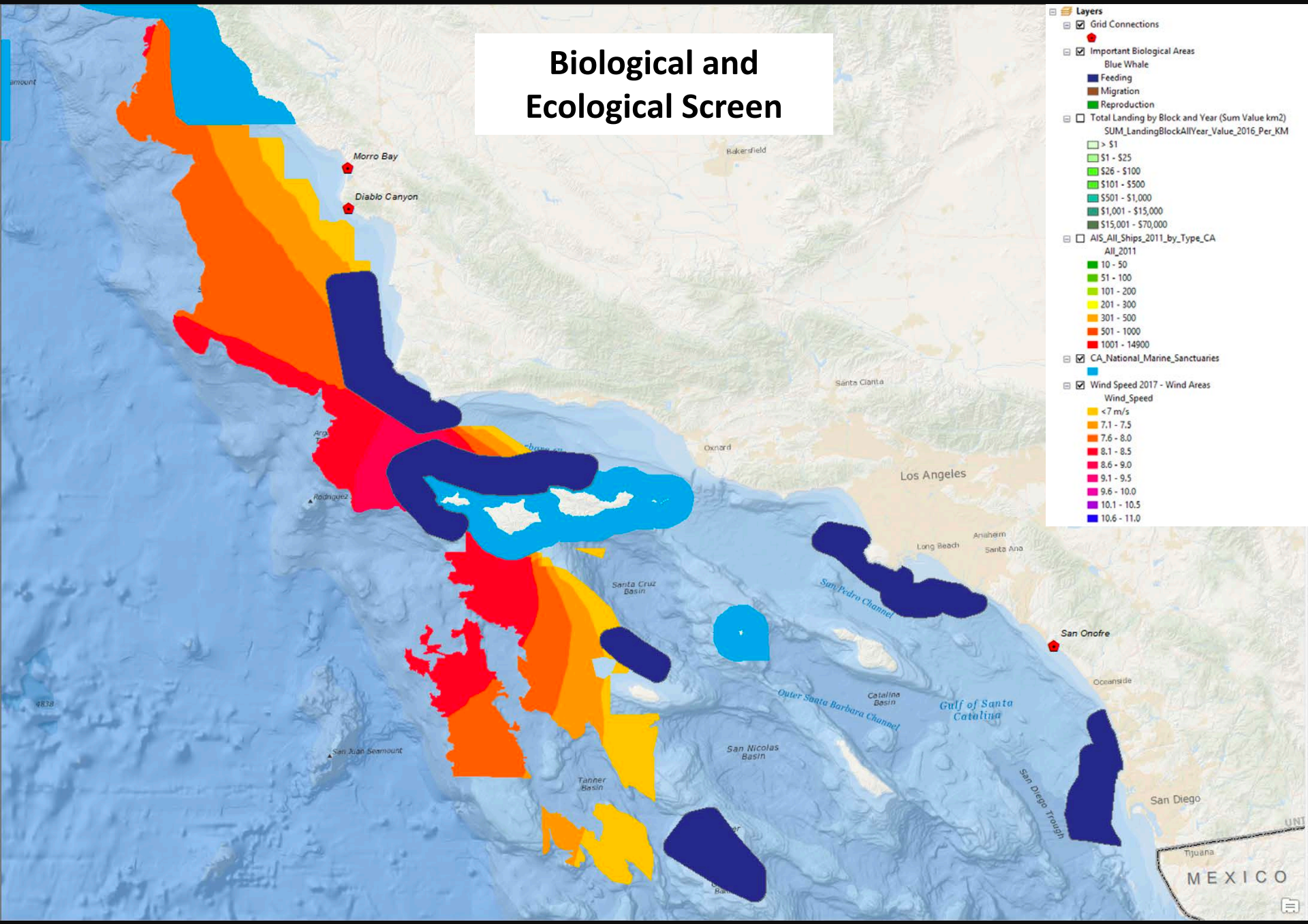
Fisheries Screen



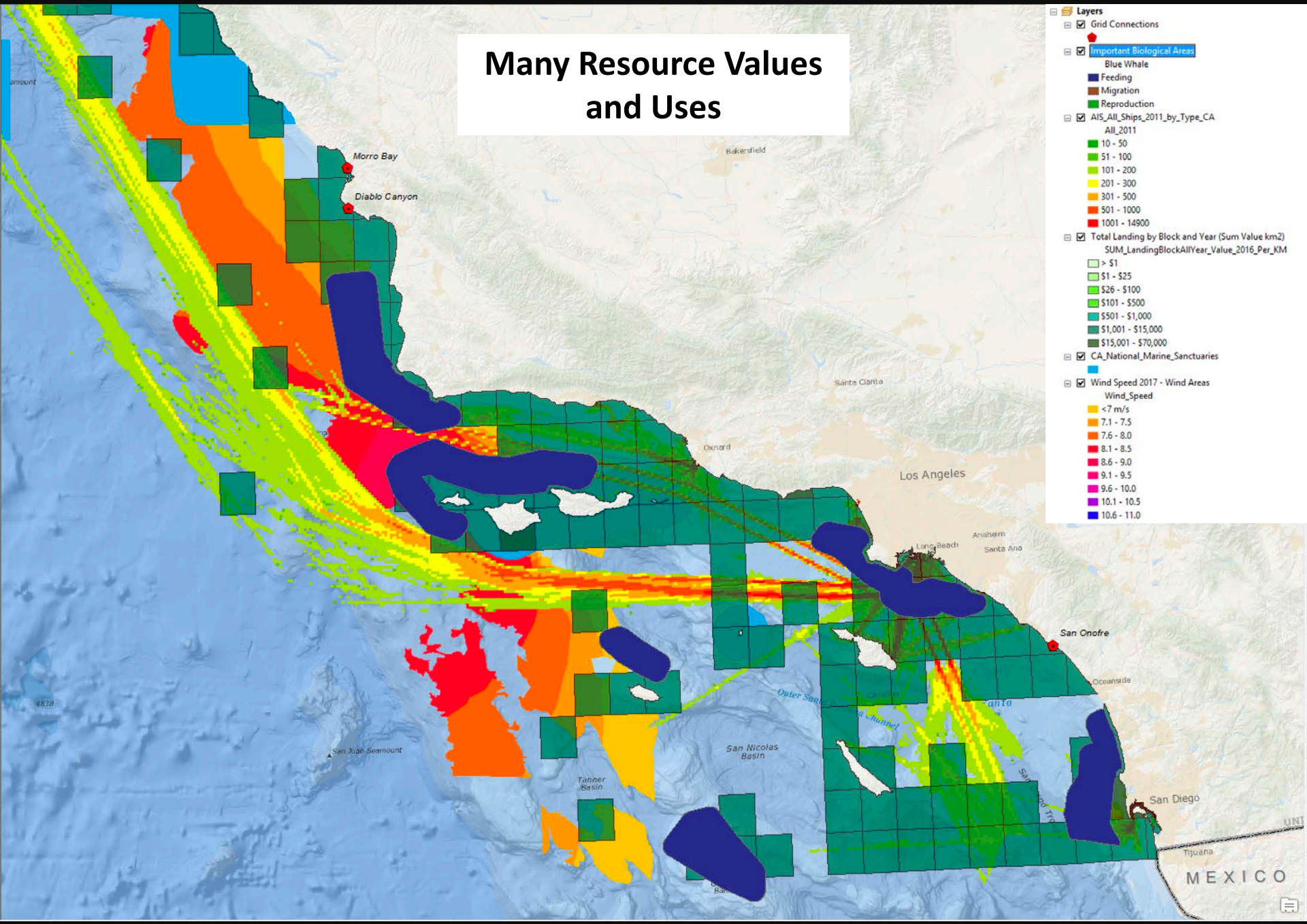
Vessel Traffic Screen



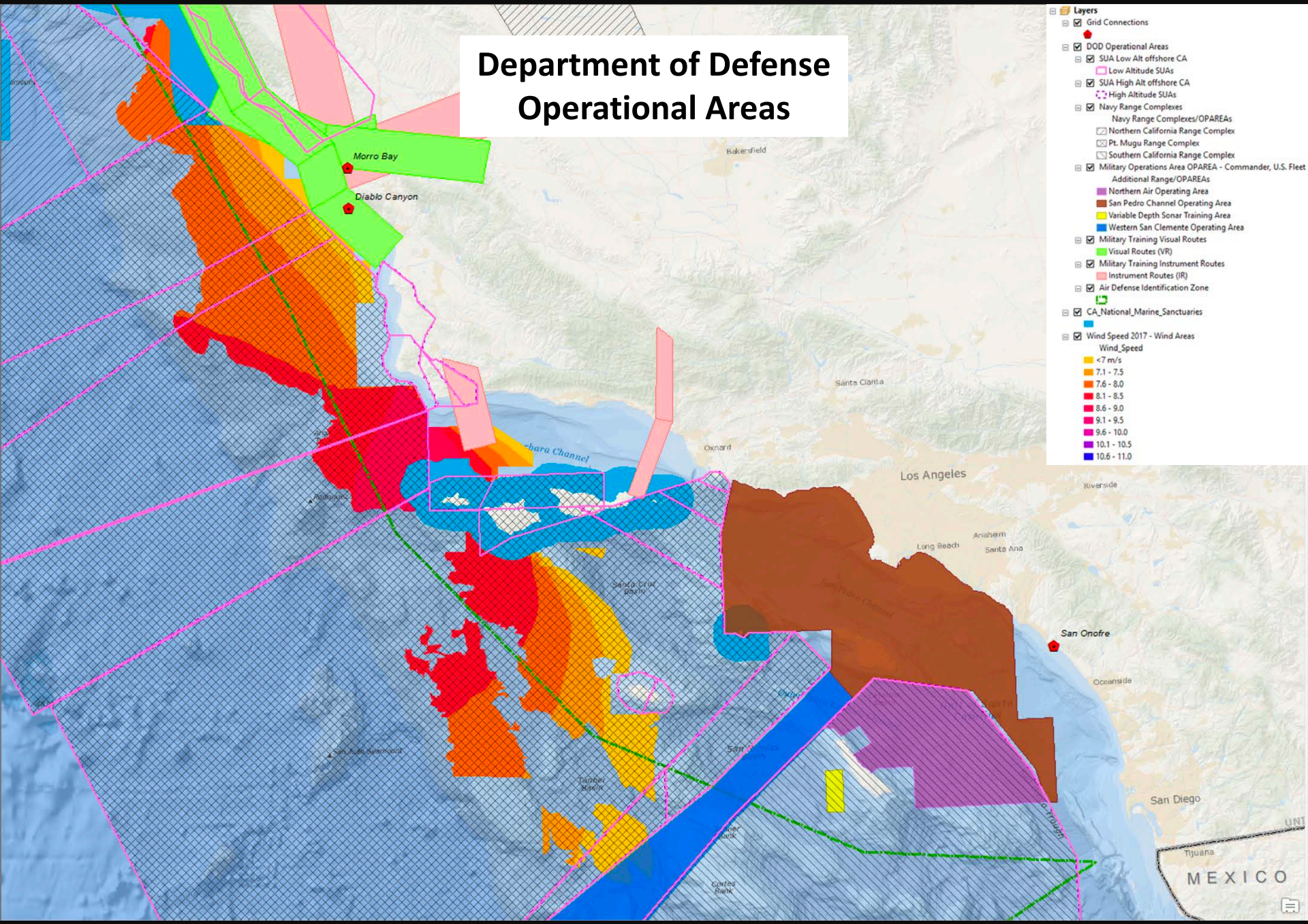
Biological and Ecological Screen

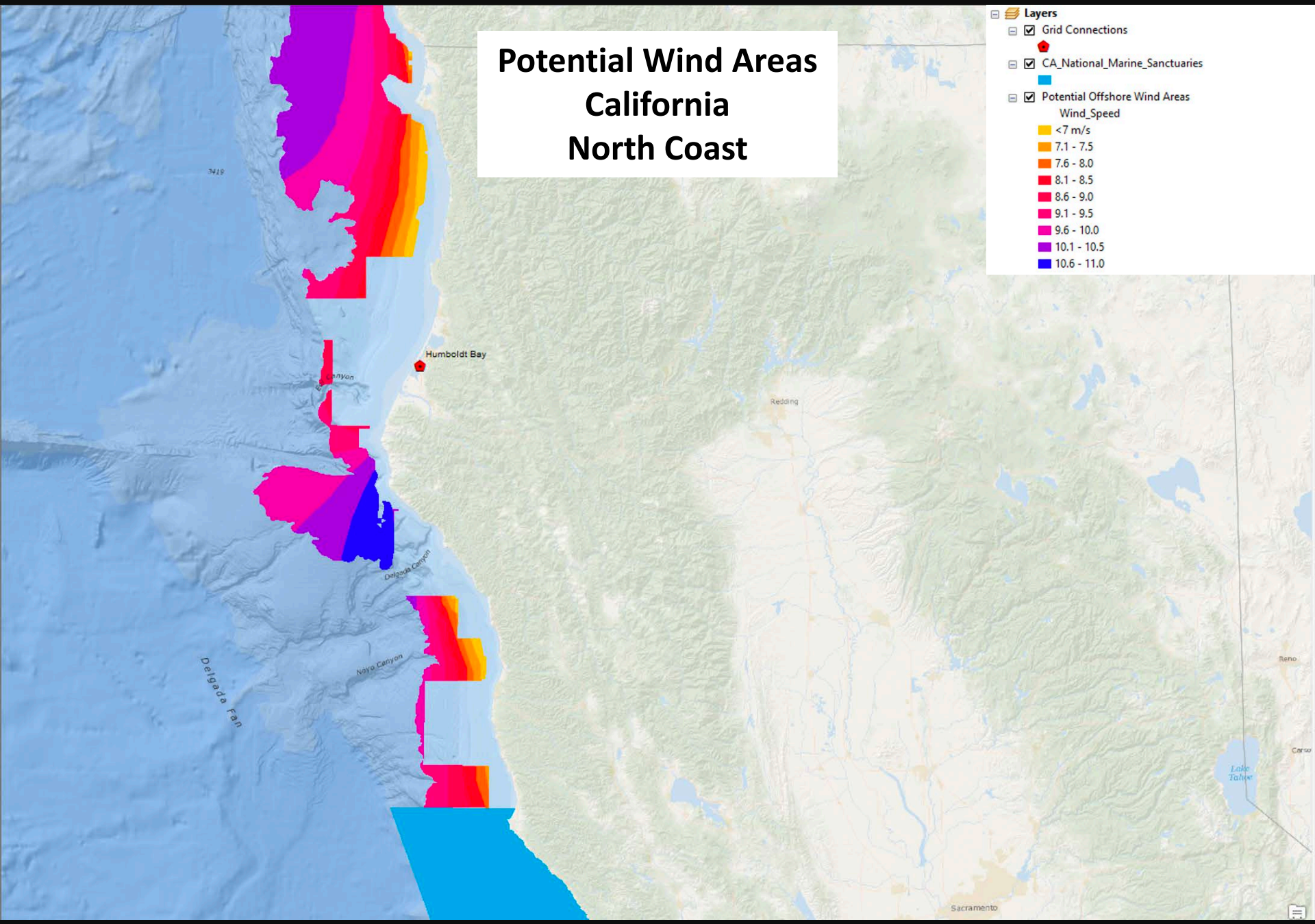


Many Resource Values and Uses



Department of Defense Operational Areas




Potential Wind Areas
California
North Coast
Layers
Grid Connections
CA_National_Marine_Sanctuaries
Potential Offshore Wind Areas
Wind_Speed
<7 m/s
7.1 - 7.5
7.6 - 8.0
8.1 - 8.5
8.6 - 9.0
9.1 - 9.5
9.6 - 10.0
10.1 - 10.5
10.6 - 11.0
Humboldt Bay
Redding
Reno
Sacramento
Lake Tahoe
Delgada Canyon
Noyo Canyon
Delgada Fan

Contact Information

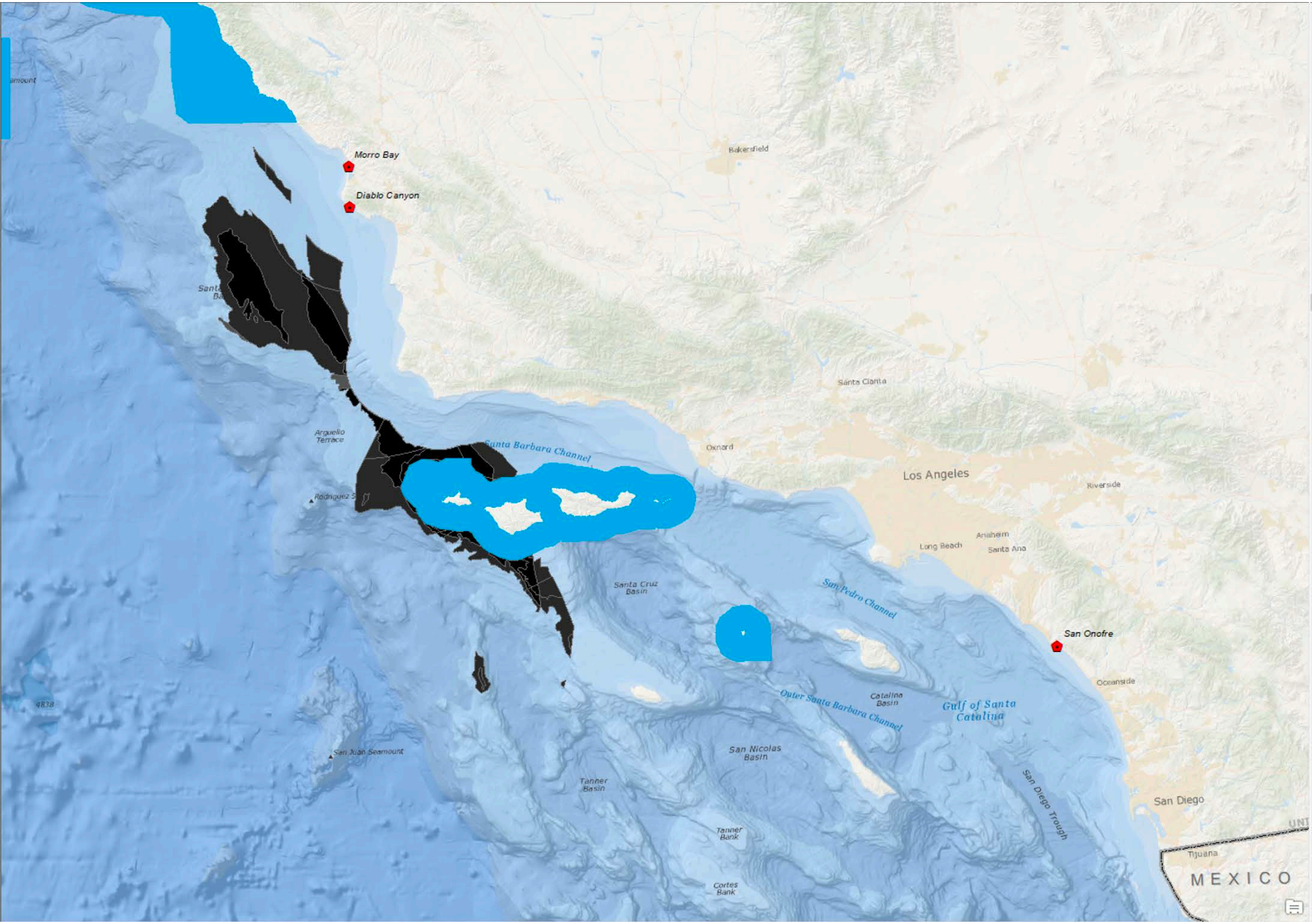
Scott Flint

California Energy Commission

Scott.Flint@energy.ca.gov

California Offshore Wind Energy Gateway

https://caoffshorewind.databasin.org


Morro Bay
Diablo Canyon
Bakersfield
Santa Clarita
Arguello Terrace
Santa Barbara Channel
Oxnard
Los Angeles
Riverside
Anaheim
Long Beach
Santa Ana
Santa Cruz Basin
San Pedro Channel
San Onofre
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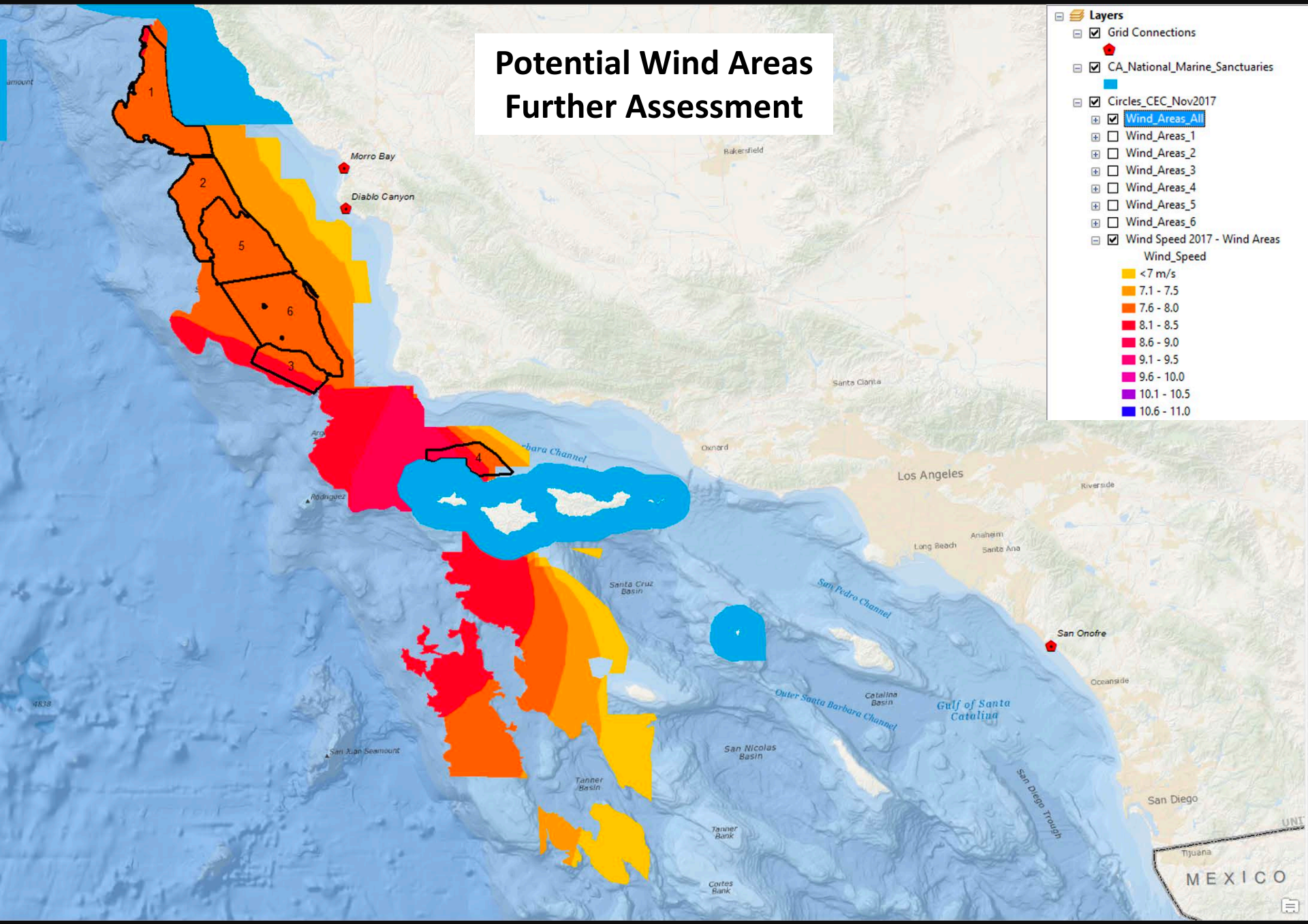
Catalina Basin
Gulf of Santa Catalina
San Juan Seamount
San Nicolas Basin
Tanner Basin
San Diego Trough
San Diego
Tanner Bank
Cortes Bank
Tijuana
MEXICO


Potential Wind Areas
Further Assessment
Layers
Grid Connections
CA_National_Marine_Sanctuaries
Circles_CEC_Nov2017
Wind_Areas_All
Wind_Areas_1
Wind_Areas_2
Wind_Areas_3
Wind_Areas_4
Wind_Areas_5
Wind_Areas_6
Wind Speed 2017 - Wind Areas
Wind_Speed
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8.6 - 9.0
9.1 - 9.5
9.6 - 10.0
10.1 - 10.5
10.6 - 11.0
1
2
3
4
5
6
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Diablo Canyon
Bakersfield
Santa Clarita
Oxnard
Los Angeles
Riverside
Anaheim
Long Beach
Santa Ana
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