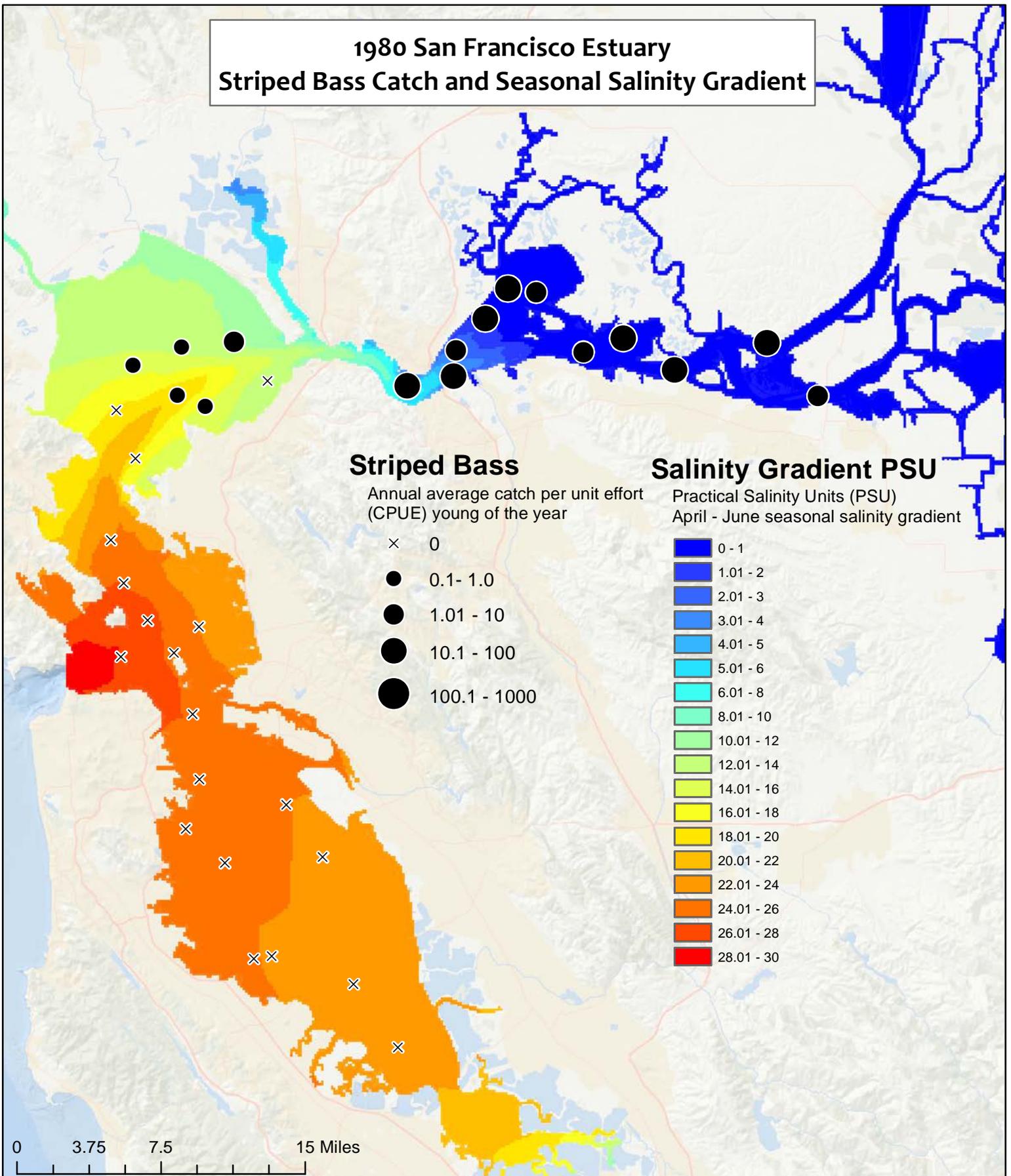


1980 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

WTR1502244.7

E. Foresman 7/13/2015

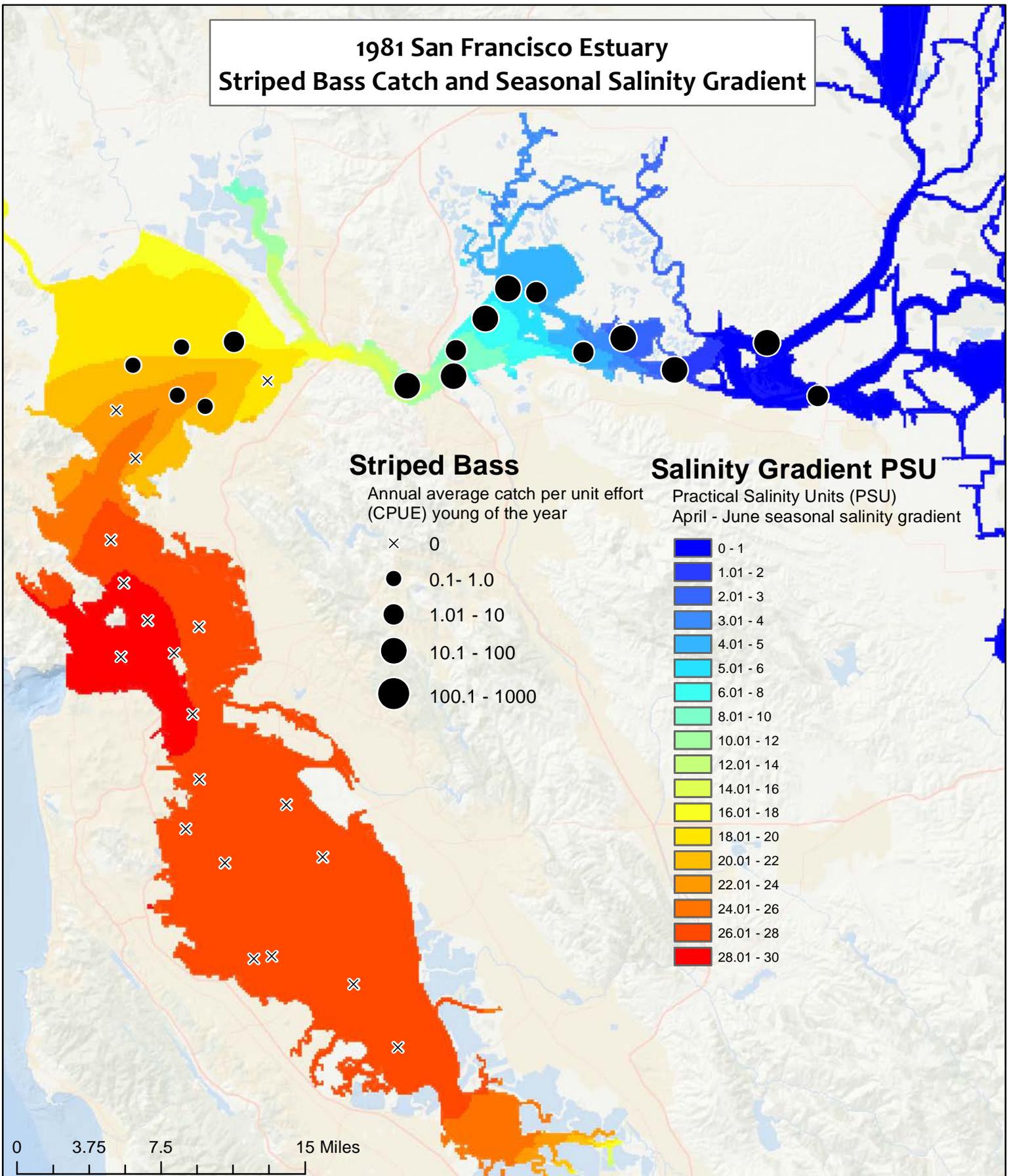
Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors.



1981 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

WTR1502244.7

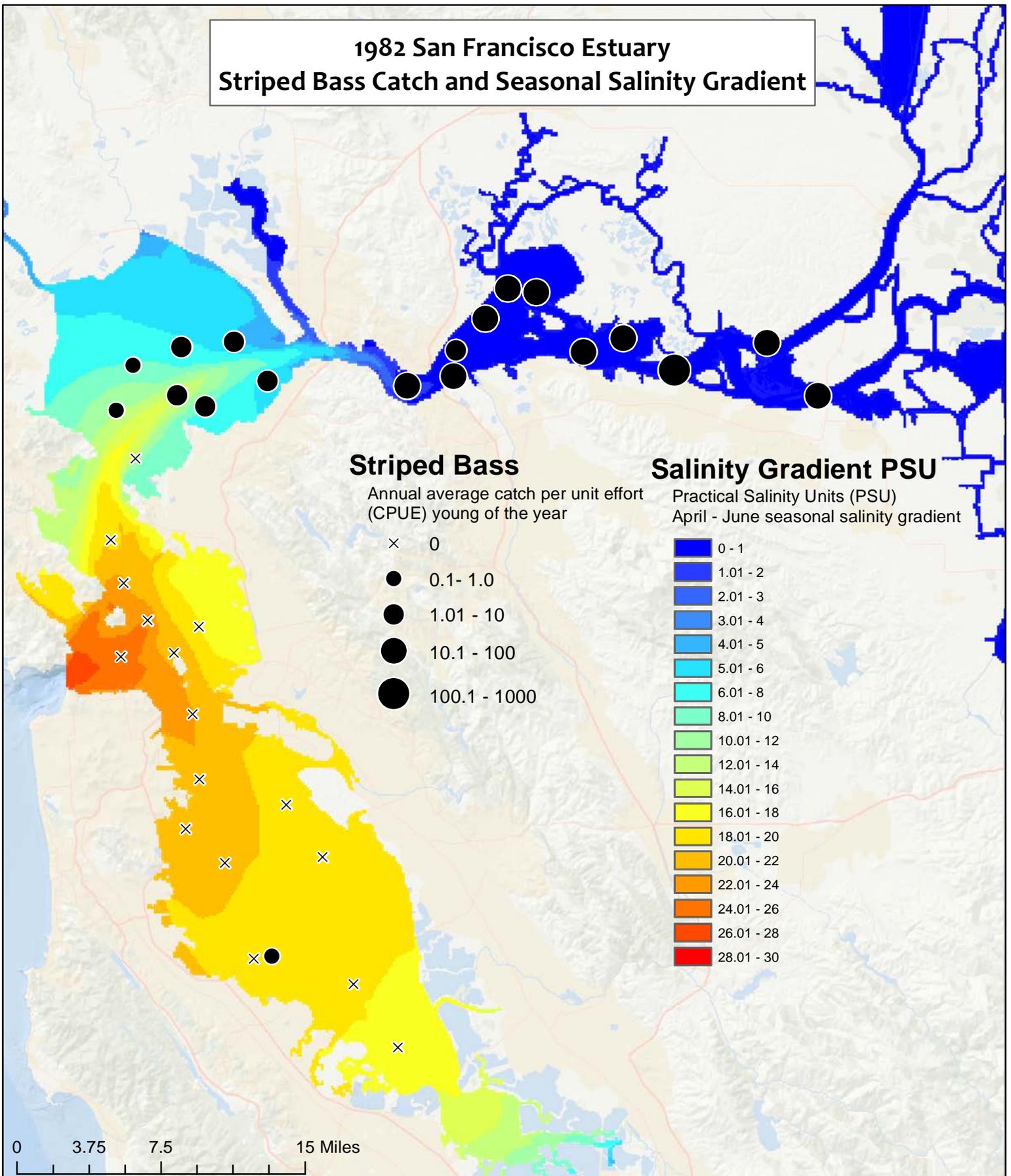
E. Foresman 7/13/2015

Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



1982 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

WTR1502244.7

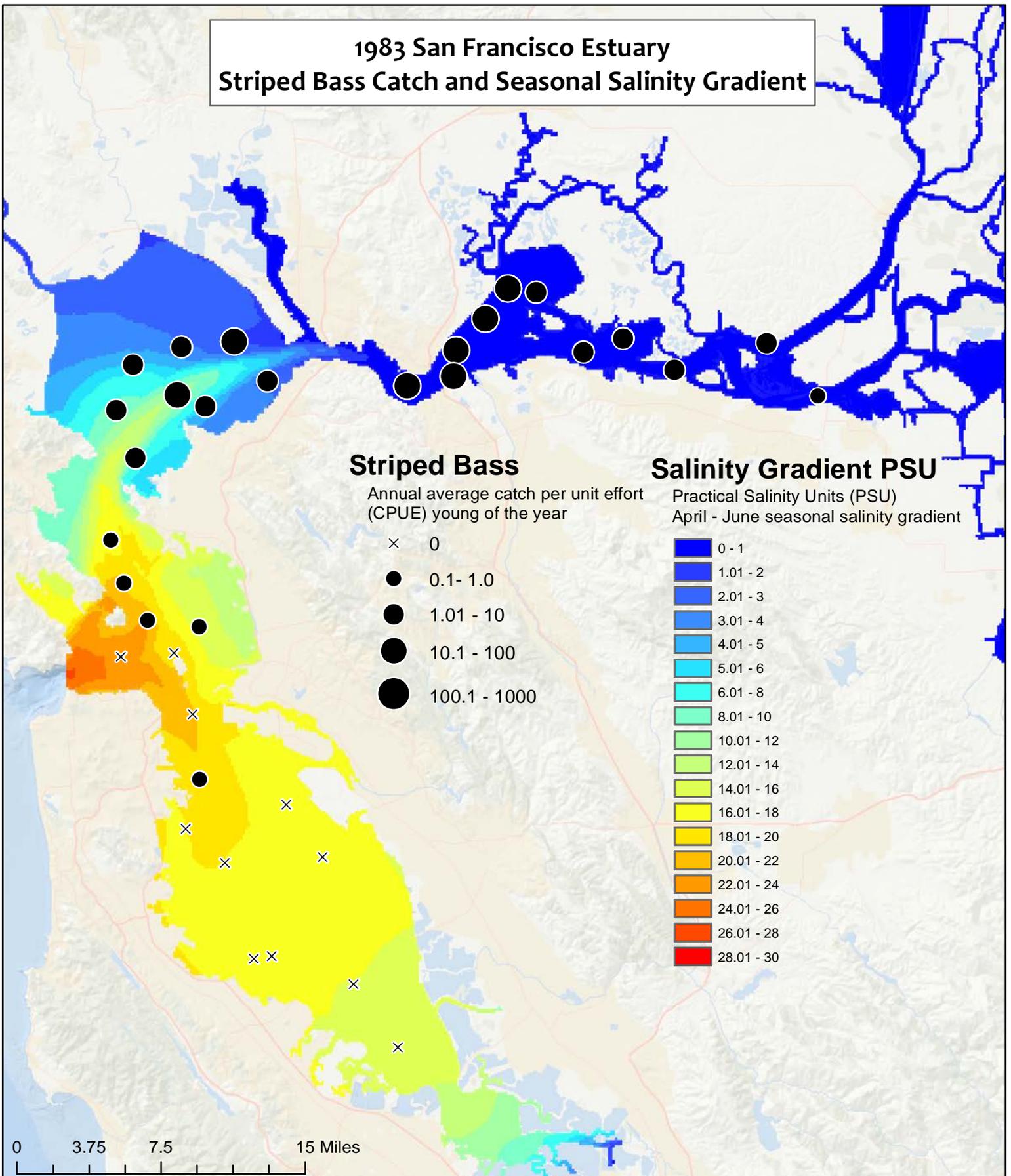
E. Foresman 7/13/2015

Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



1983 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

WTR1502244.7

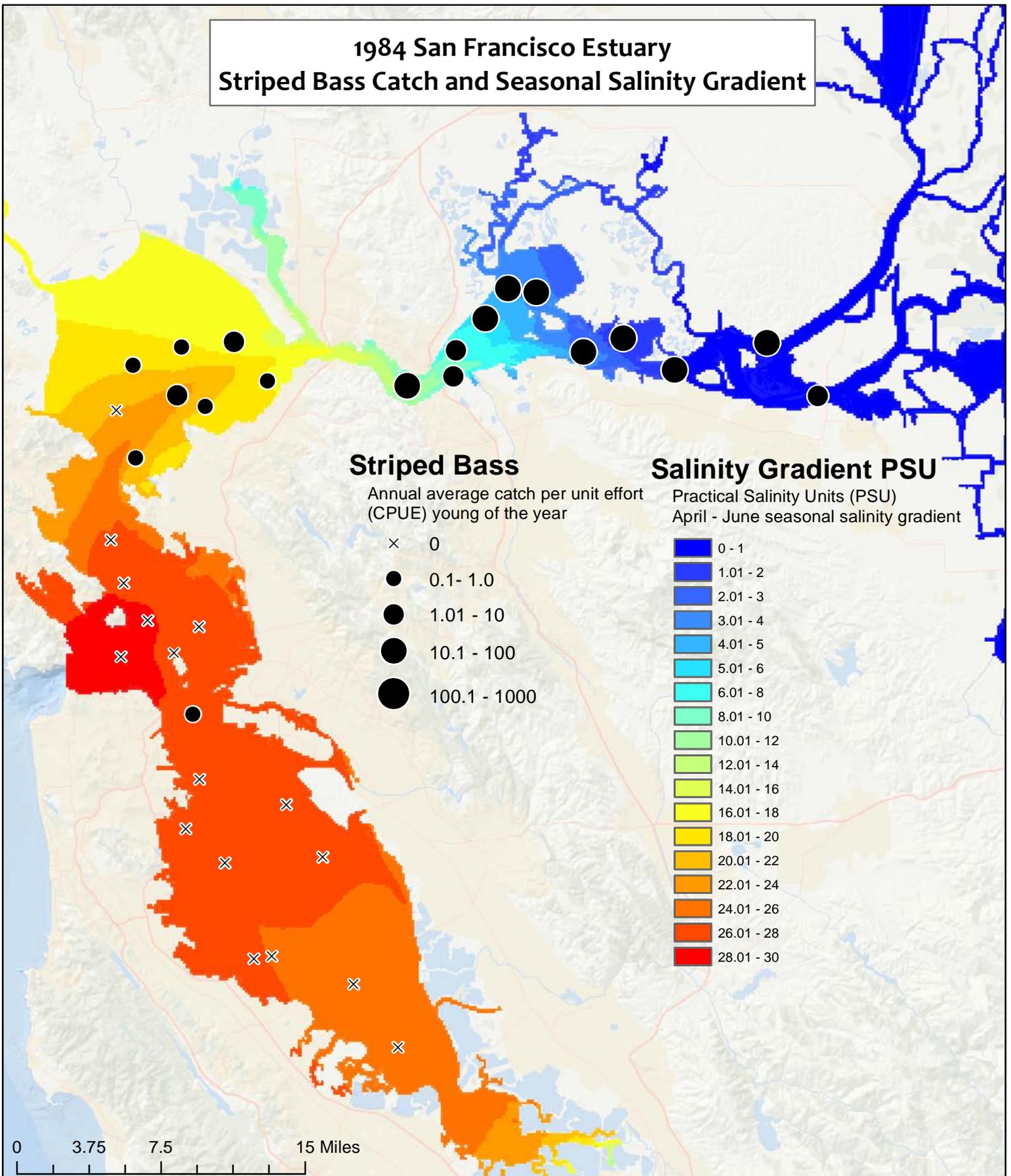
E. Foresman 7/13/2015

Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



1984 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

WTR1502244.7

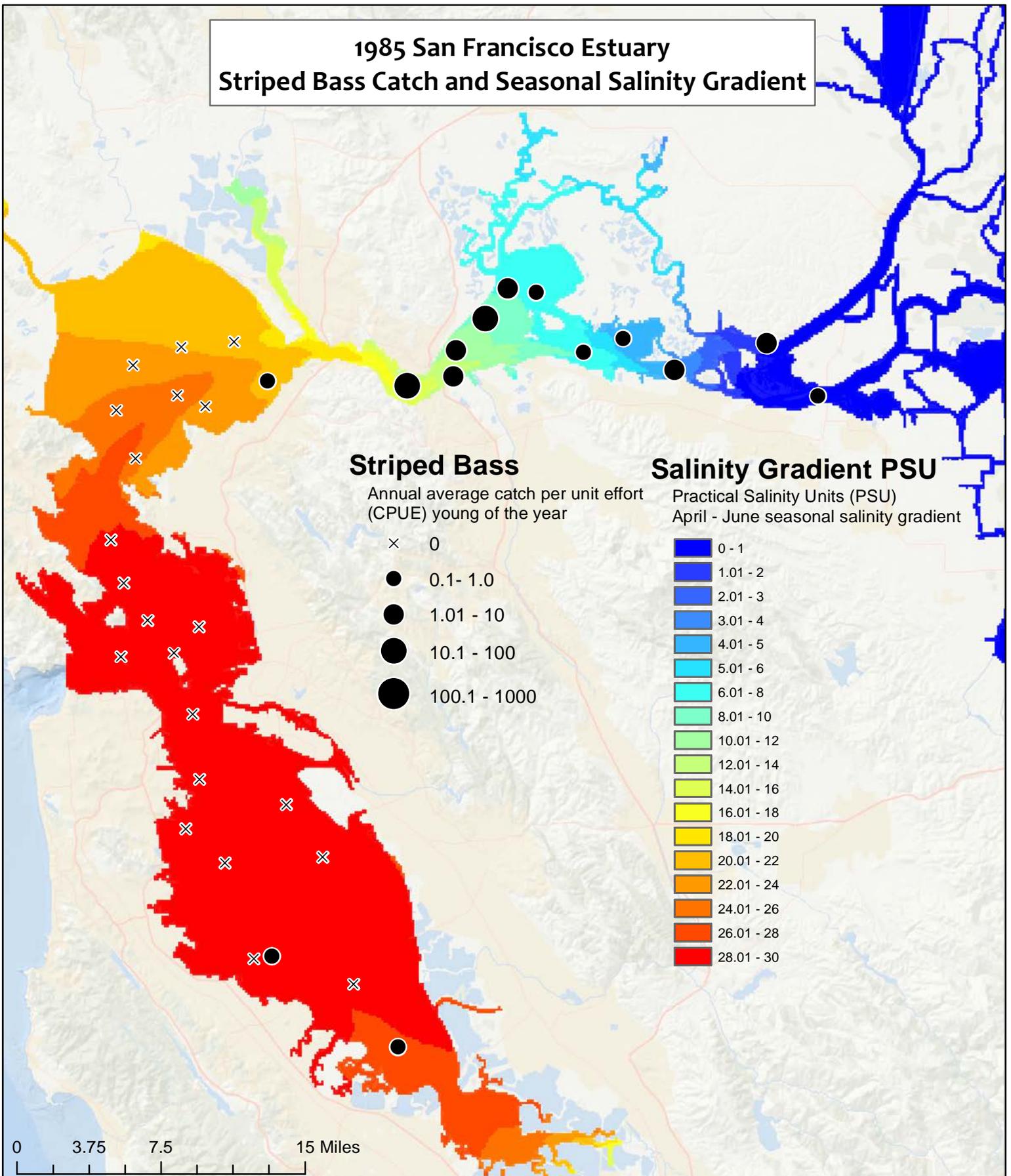
E. Foresman 7/13/2015

Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



1985 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

WTR1502244.7

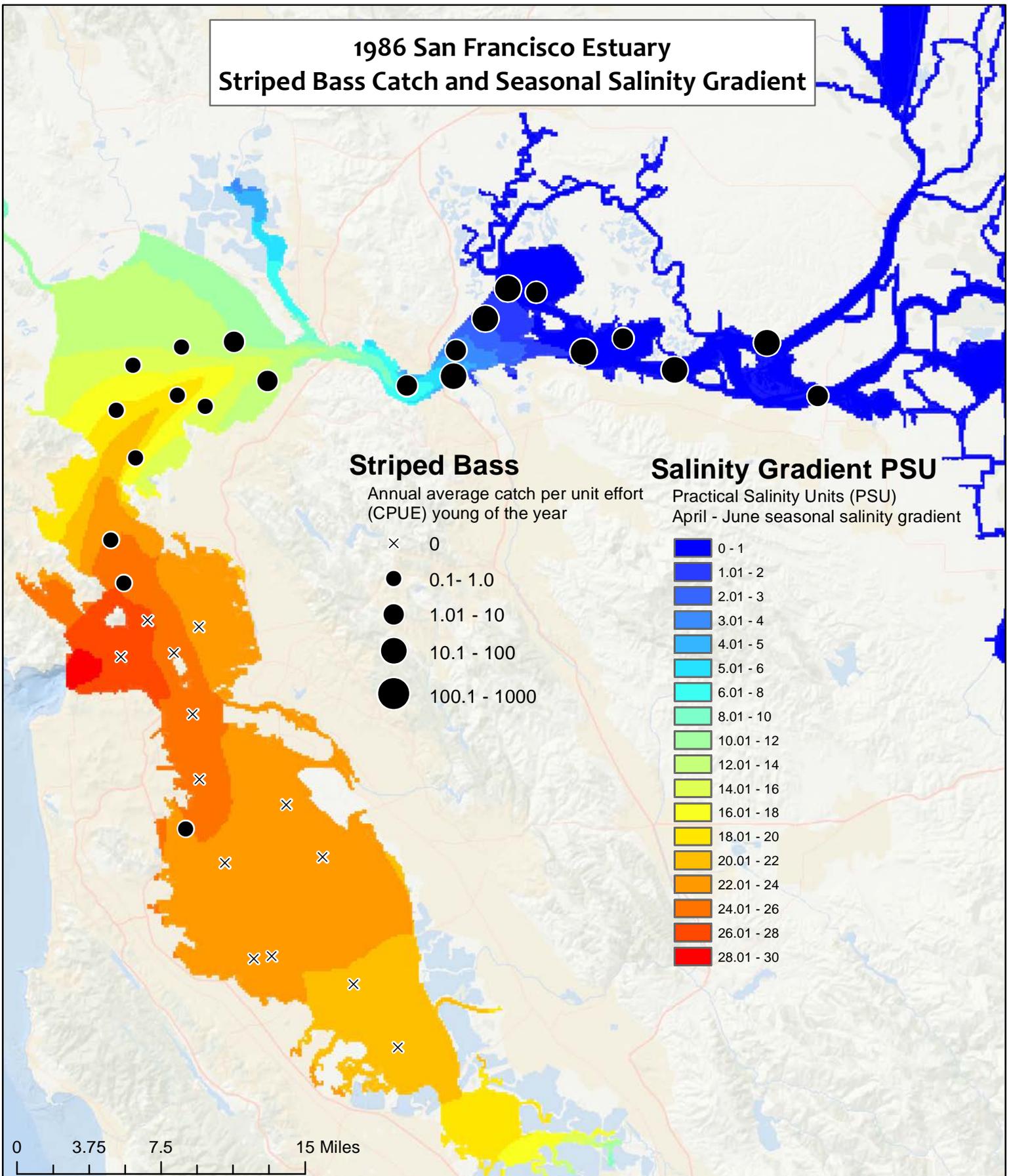
E. Foresman 7/13/2015

Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



1986 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

WTR1502244.7

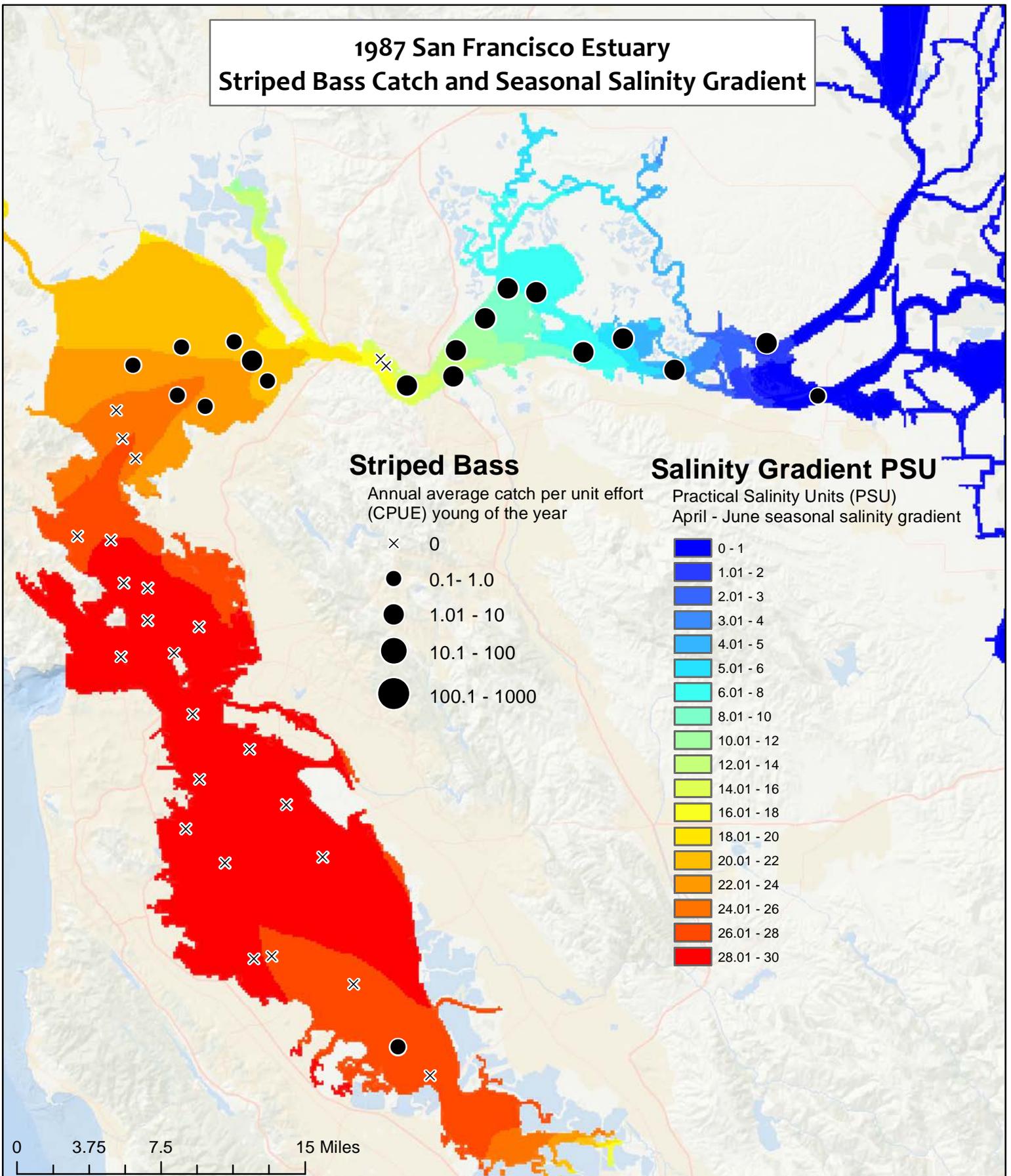
E. Foresman 7/13/2015

Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



1987 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

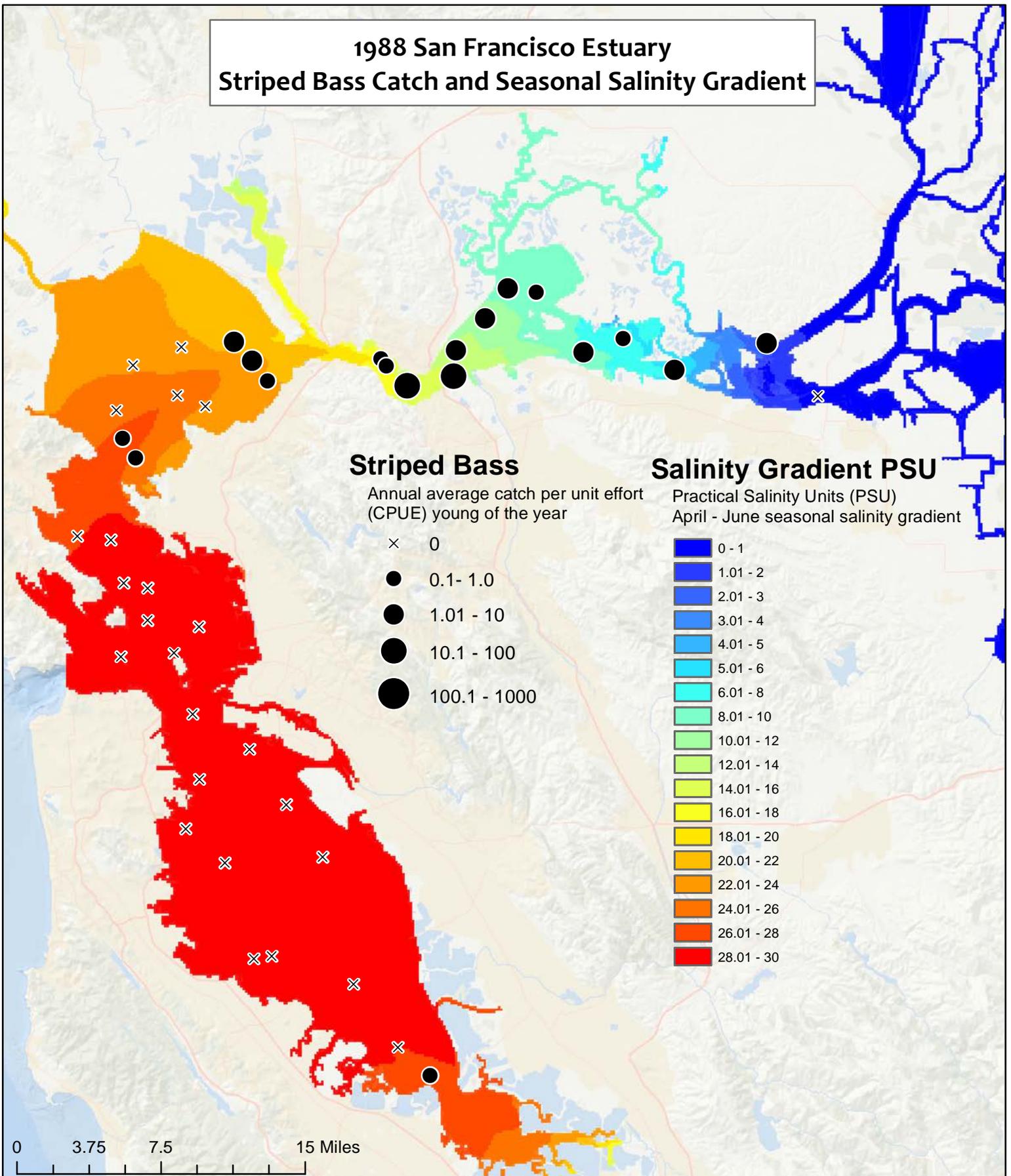
The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



1988 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

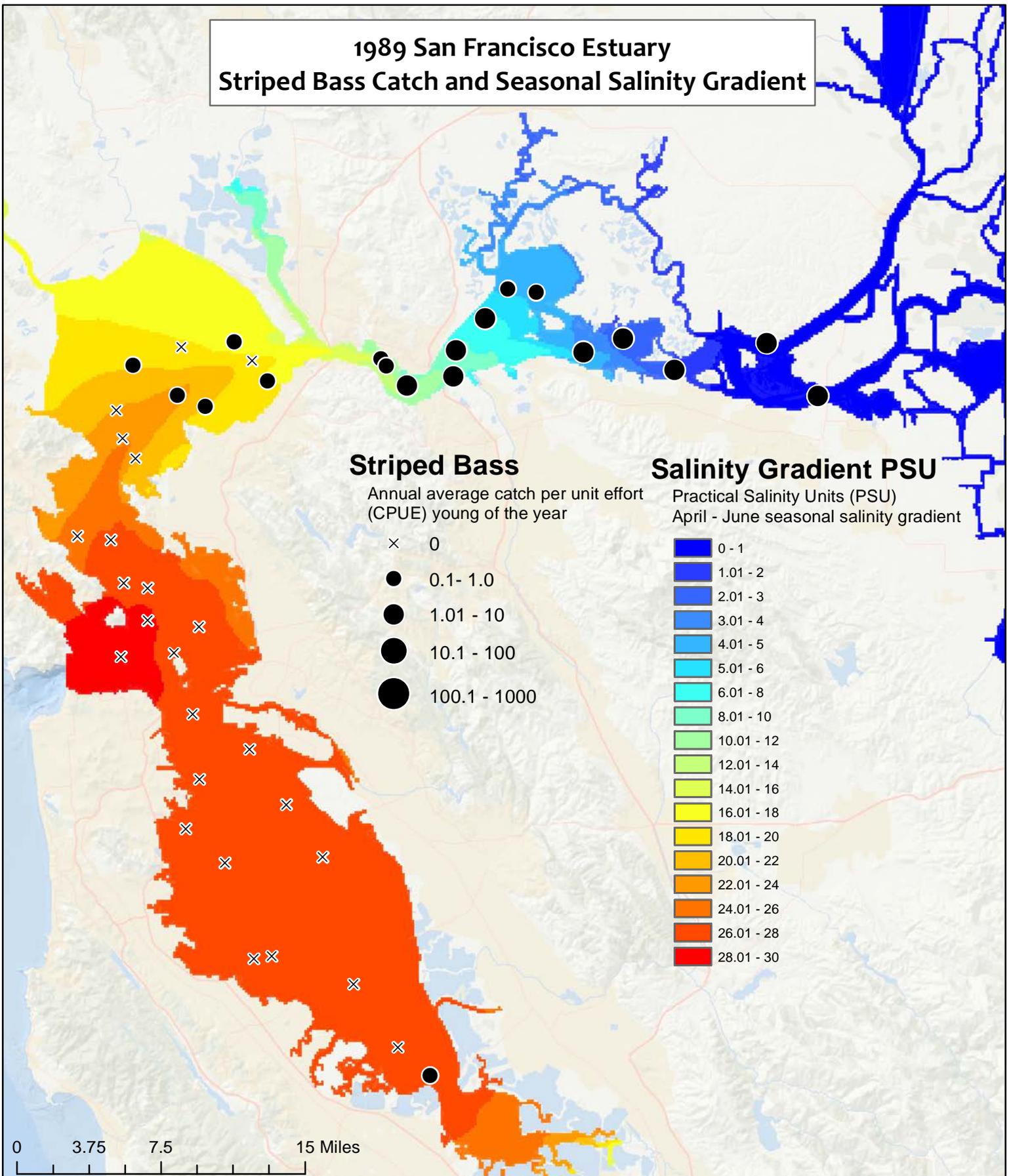
The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

Data sources

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Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



1989 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

WTR1502244.7

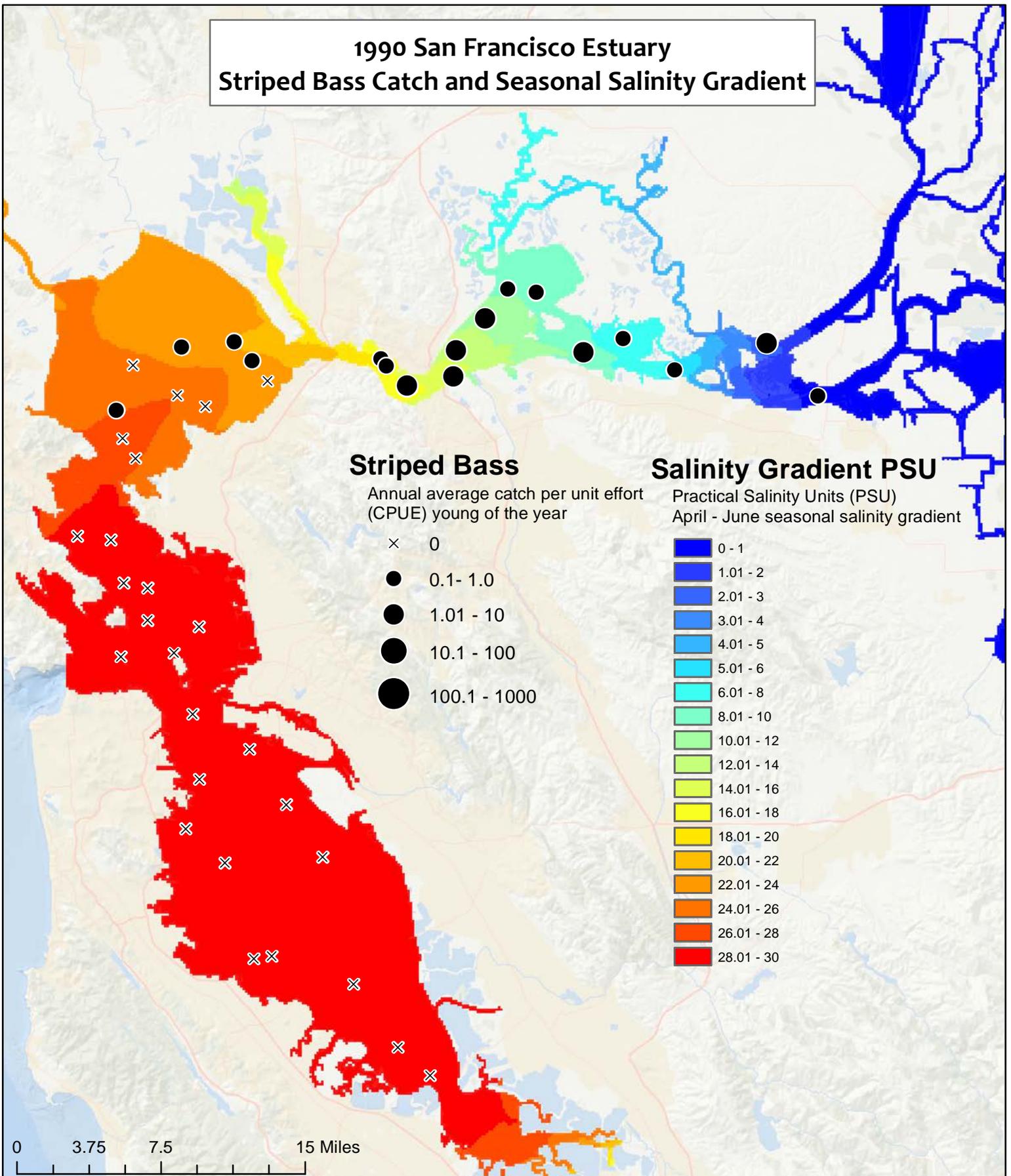
E. Foresman 7/13/2015

Data sources

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Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
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1990 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

WTR1502244.7

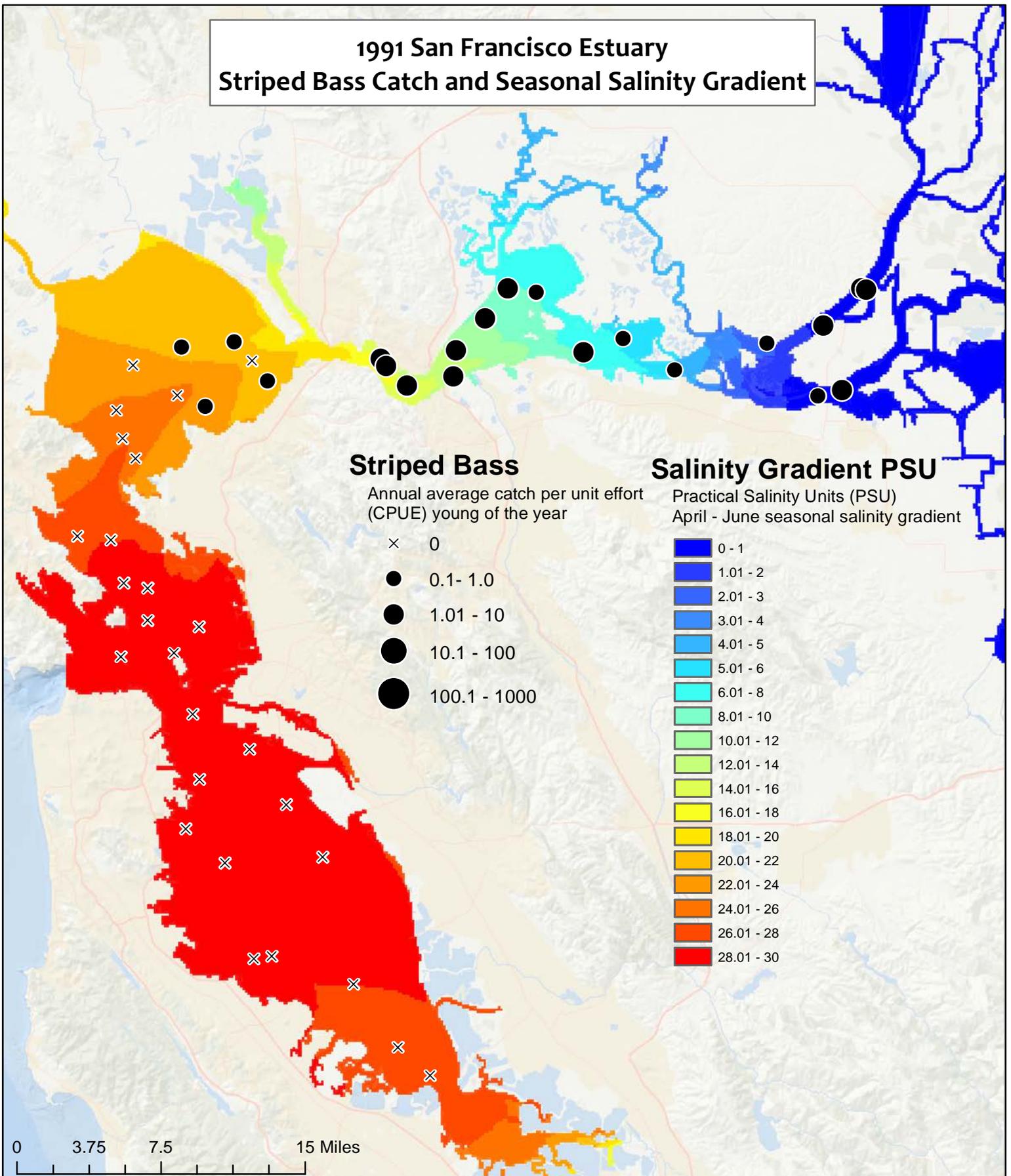
E. Foresman 7/13/2015

Data sources

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Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



1991 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

WTR1502244.7

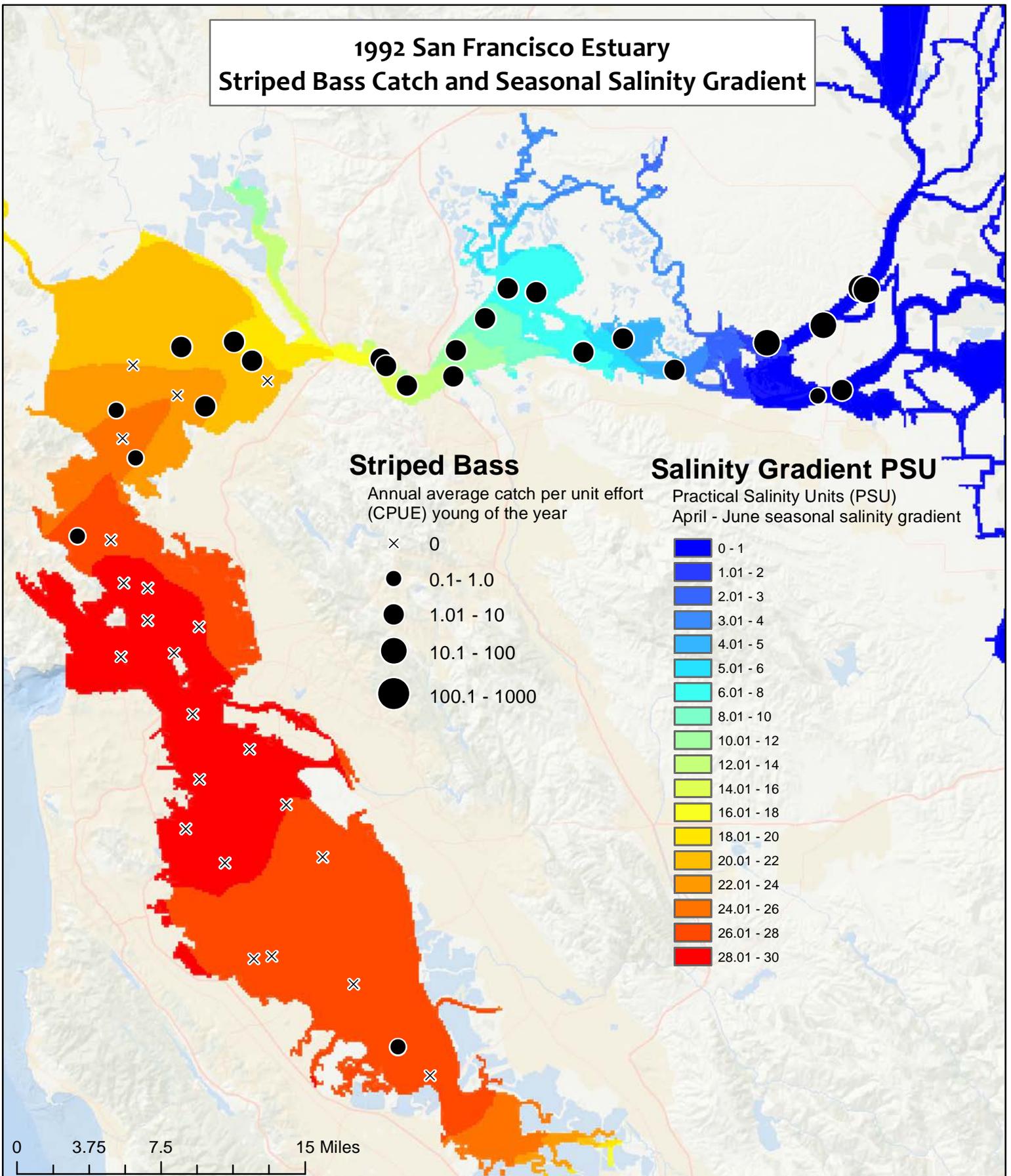
E. Foresman 7/13/2015

Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



1992 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

WTR1502244.7

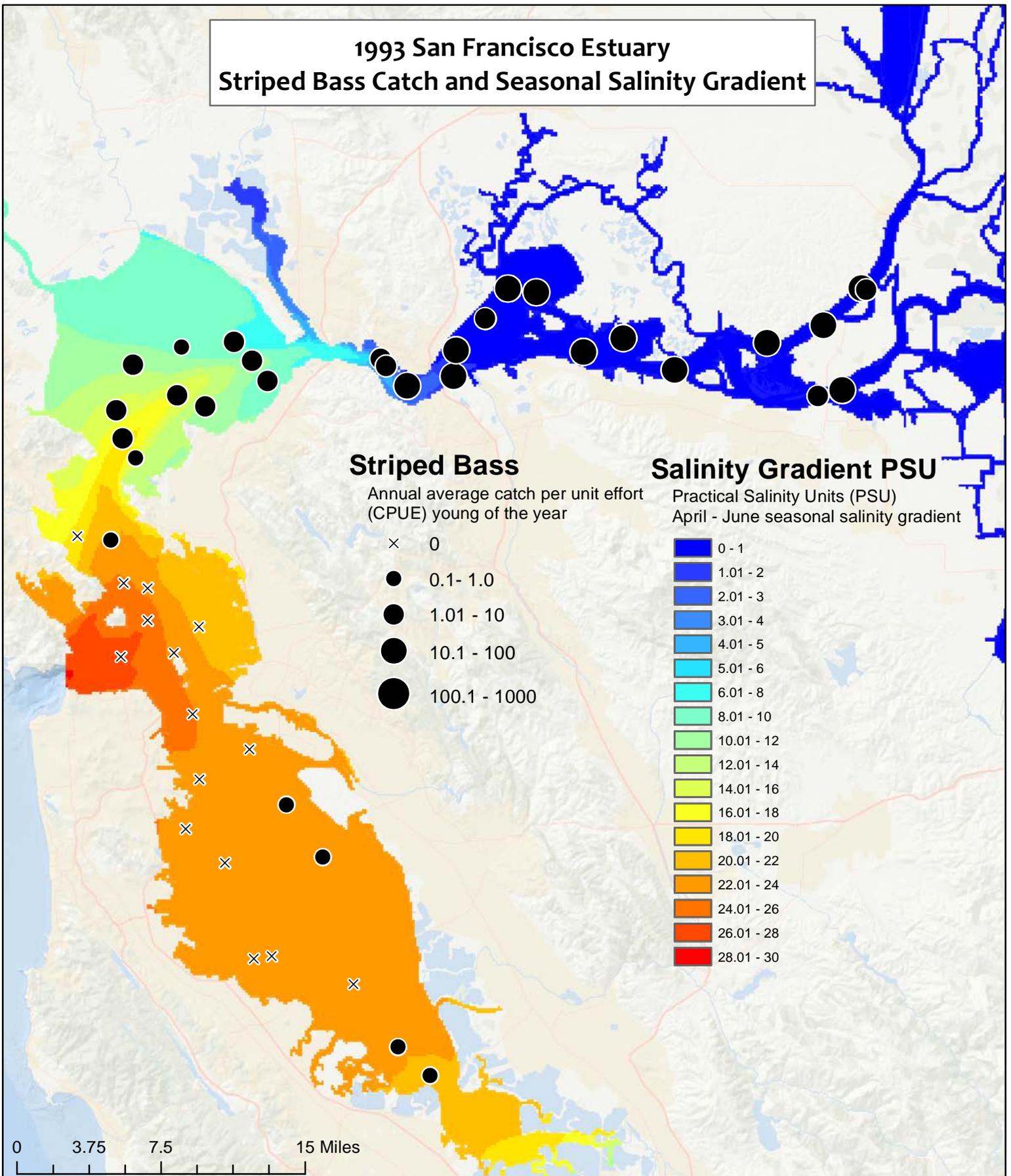
E. Foresman 7/13/2015

Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
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1993 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

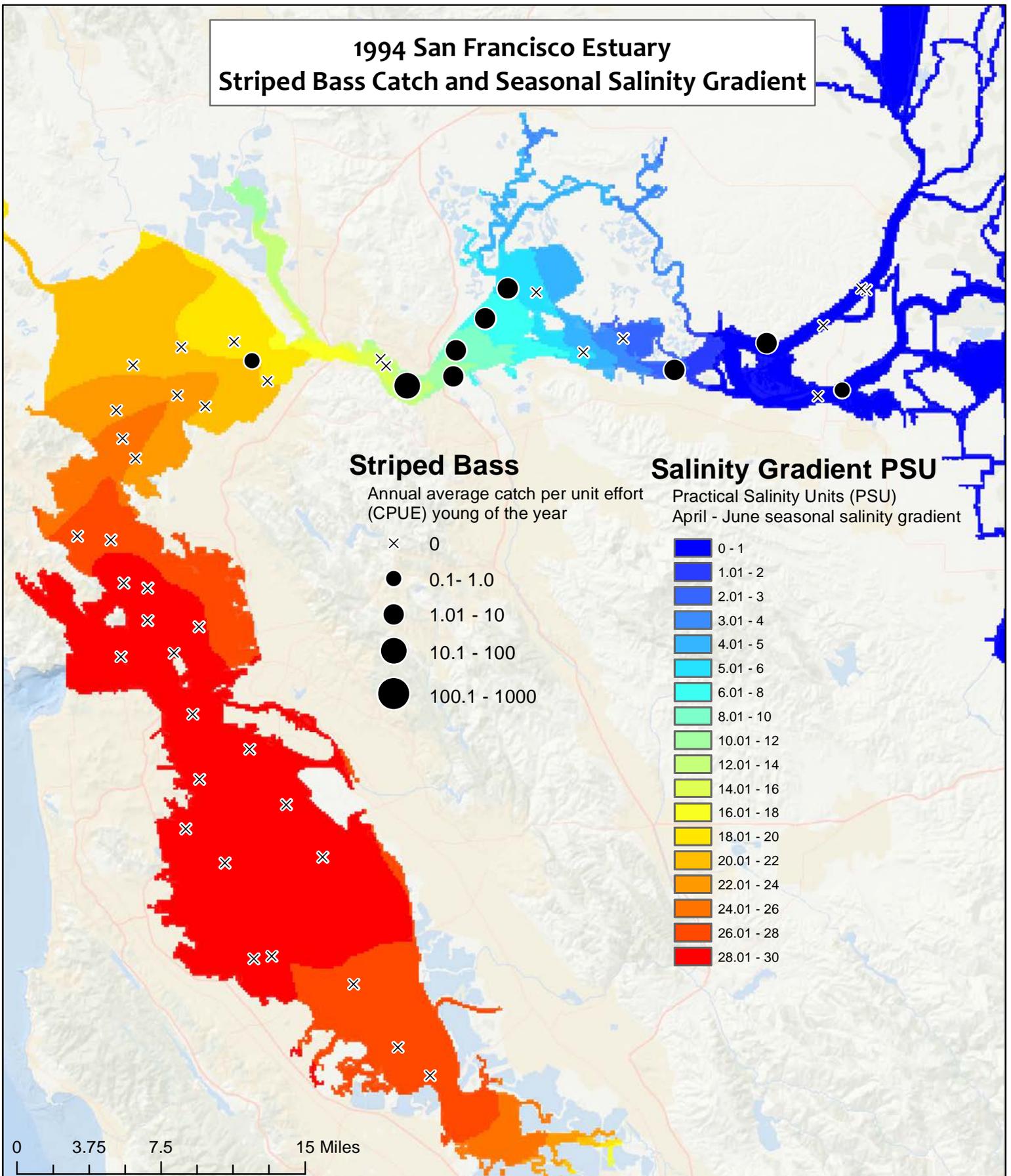
The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
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1994 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), *Marine Ecology and Progress Series* 243: 39-55.

WTR1502244.7

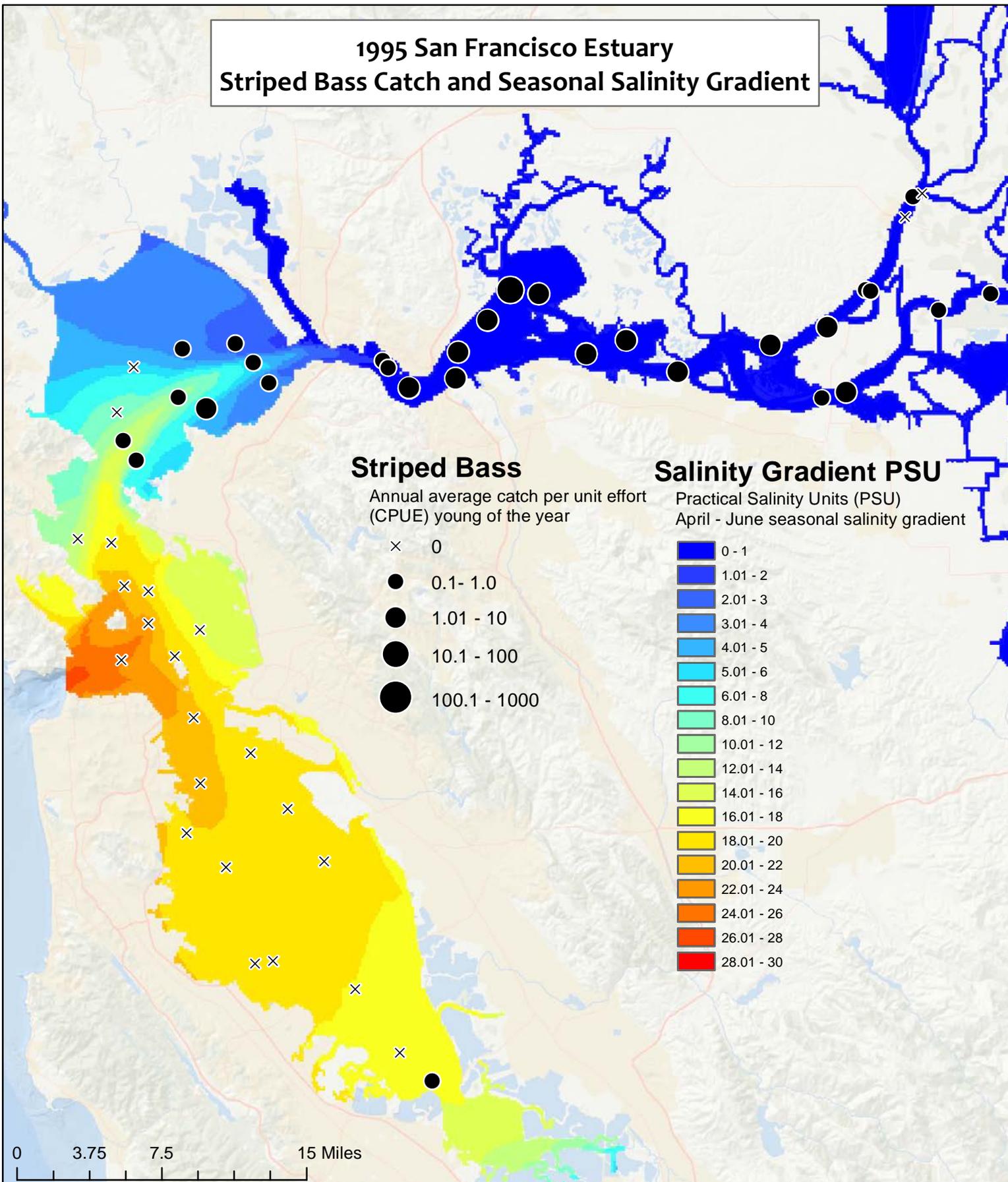
E. Foresman 7/13/2015

Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
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1995 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

WTR1502244.7

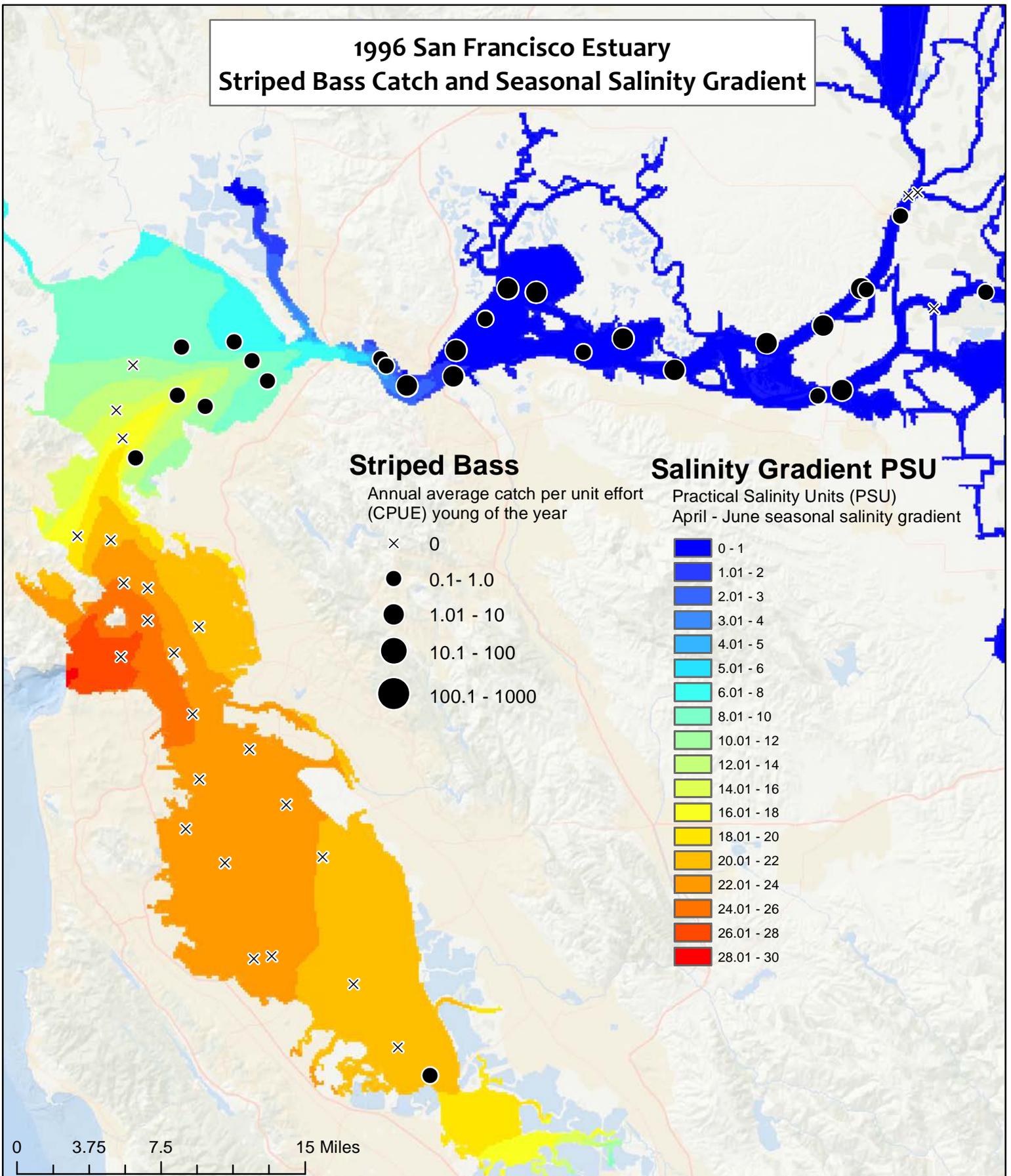
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Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
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1996 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

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WTR1502244.7

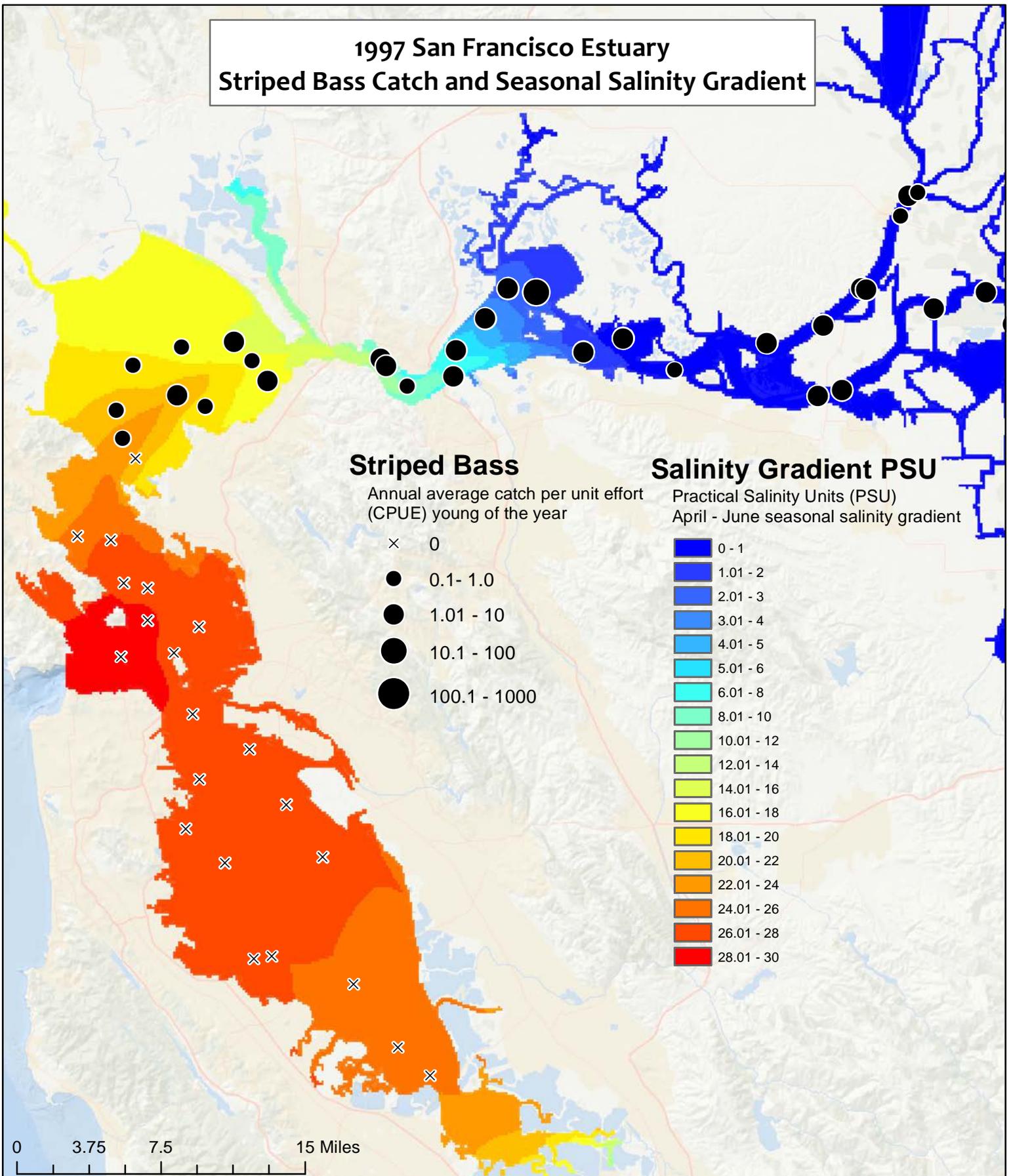
E. Foresman 7/13/2015

Data sources

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Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



1997 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

WTR1502244.7

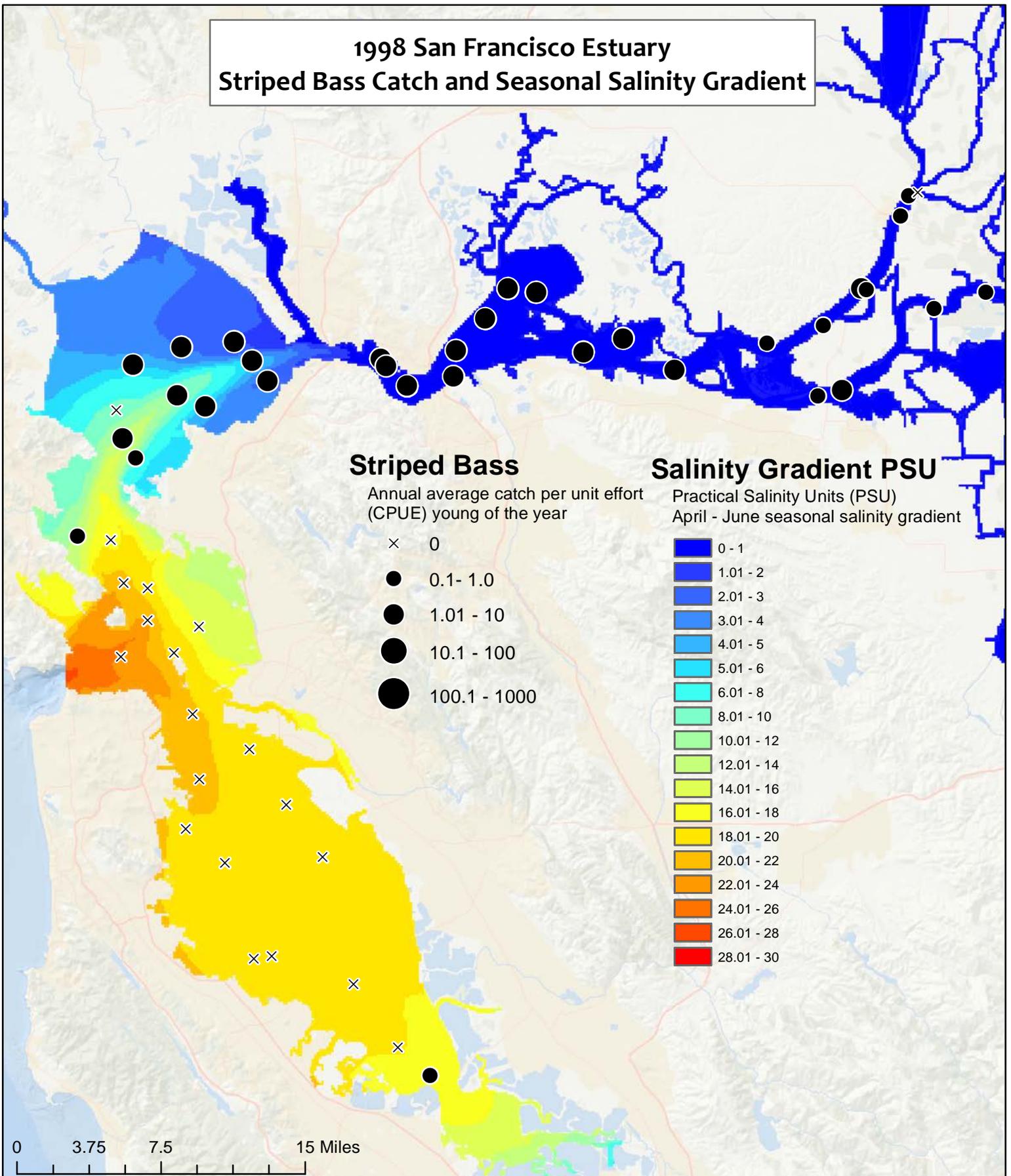
E. Foresman 7/13/2015

Data sources

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1998 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

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WTR1502244.7

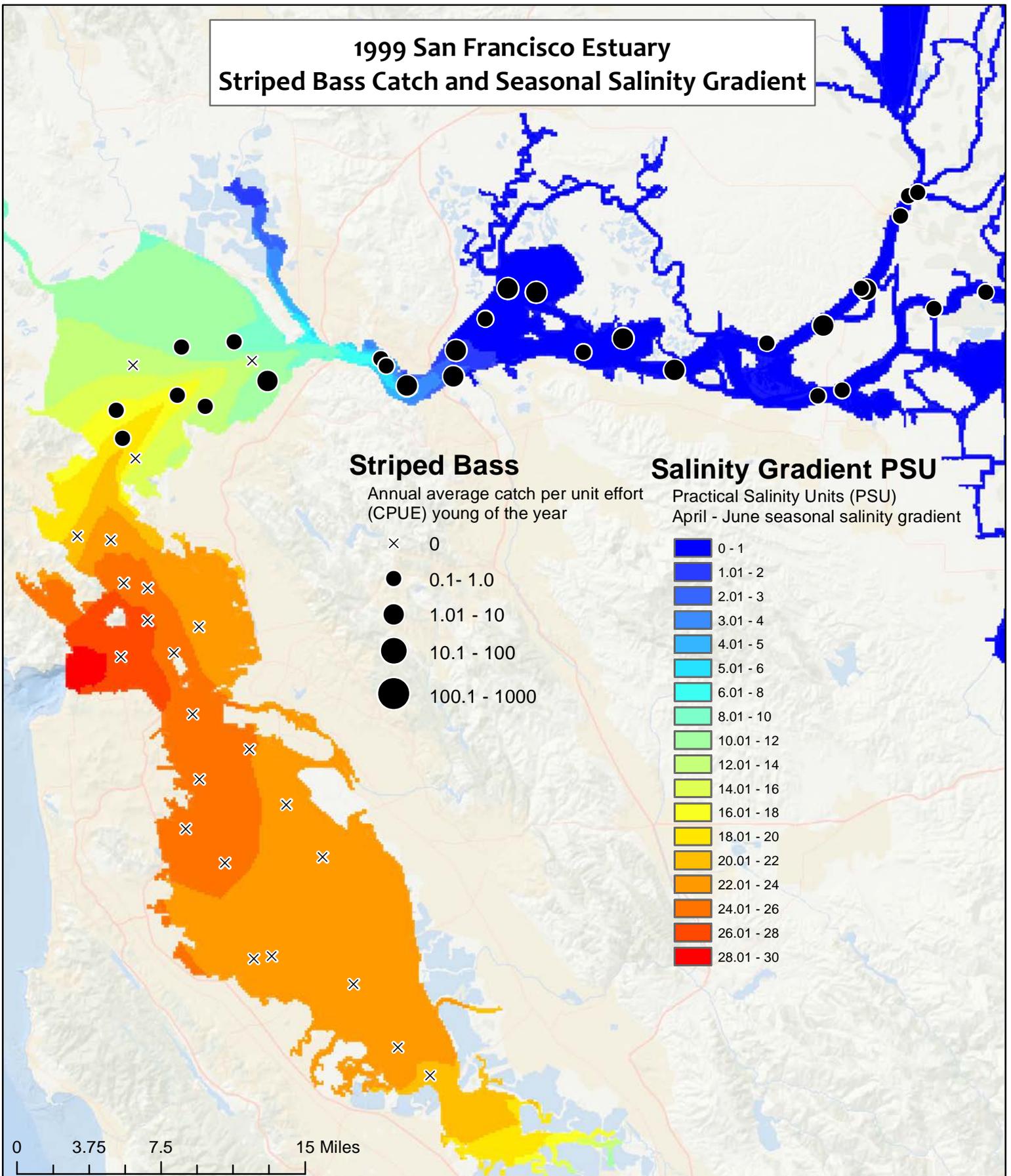
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Data sources

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1999 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

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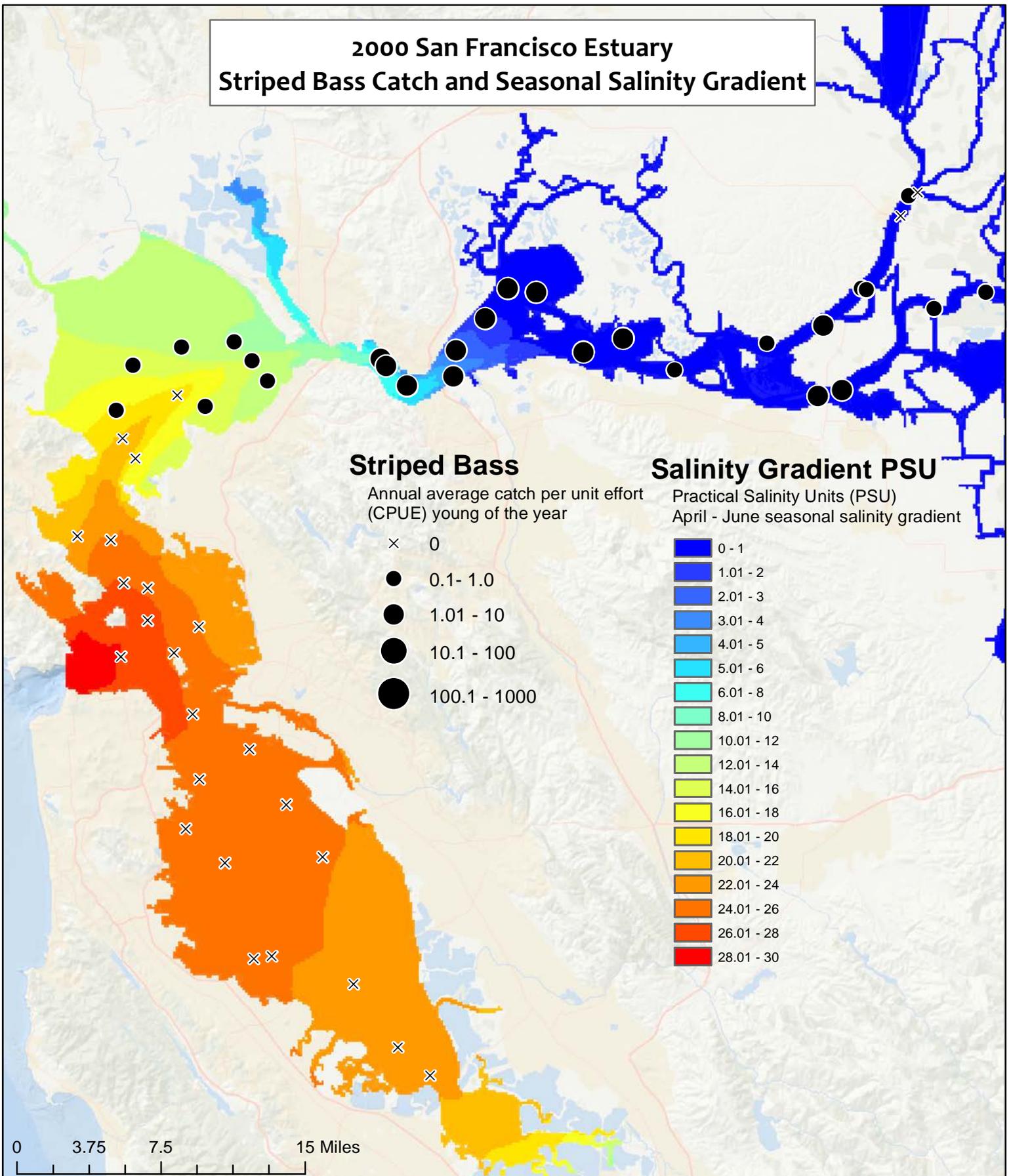
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2000 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), *Marine Ecology and Progress Series* 243: 39-55.

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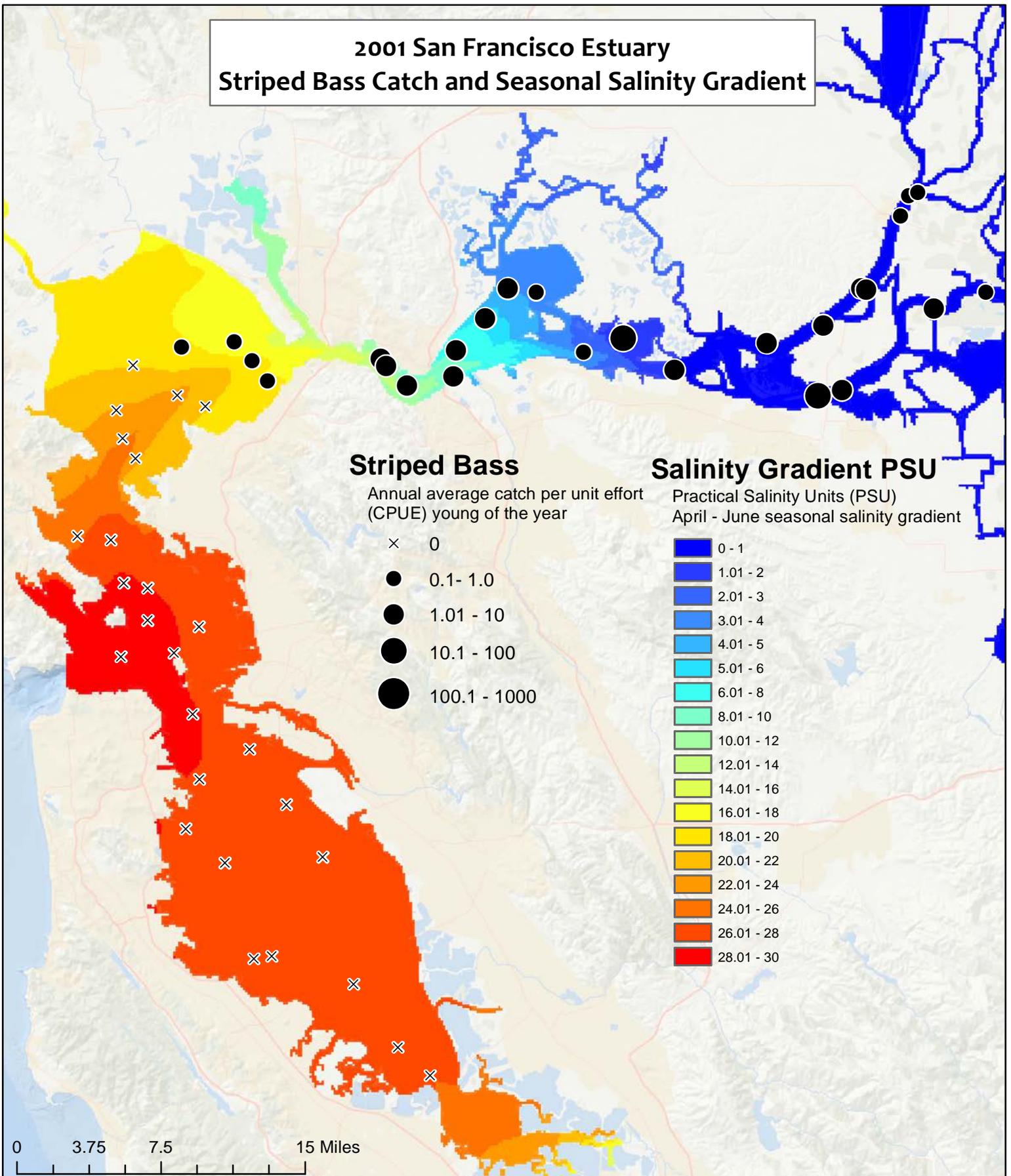
E. Foresman 7/13/2015

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Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



2001 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), *Marine Ecology and Progress Series* 243: 39-55.

WTR1502244.7

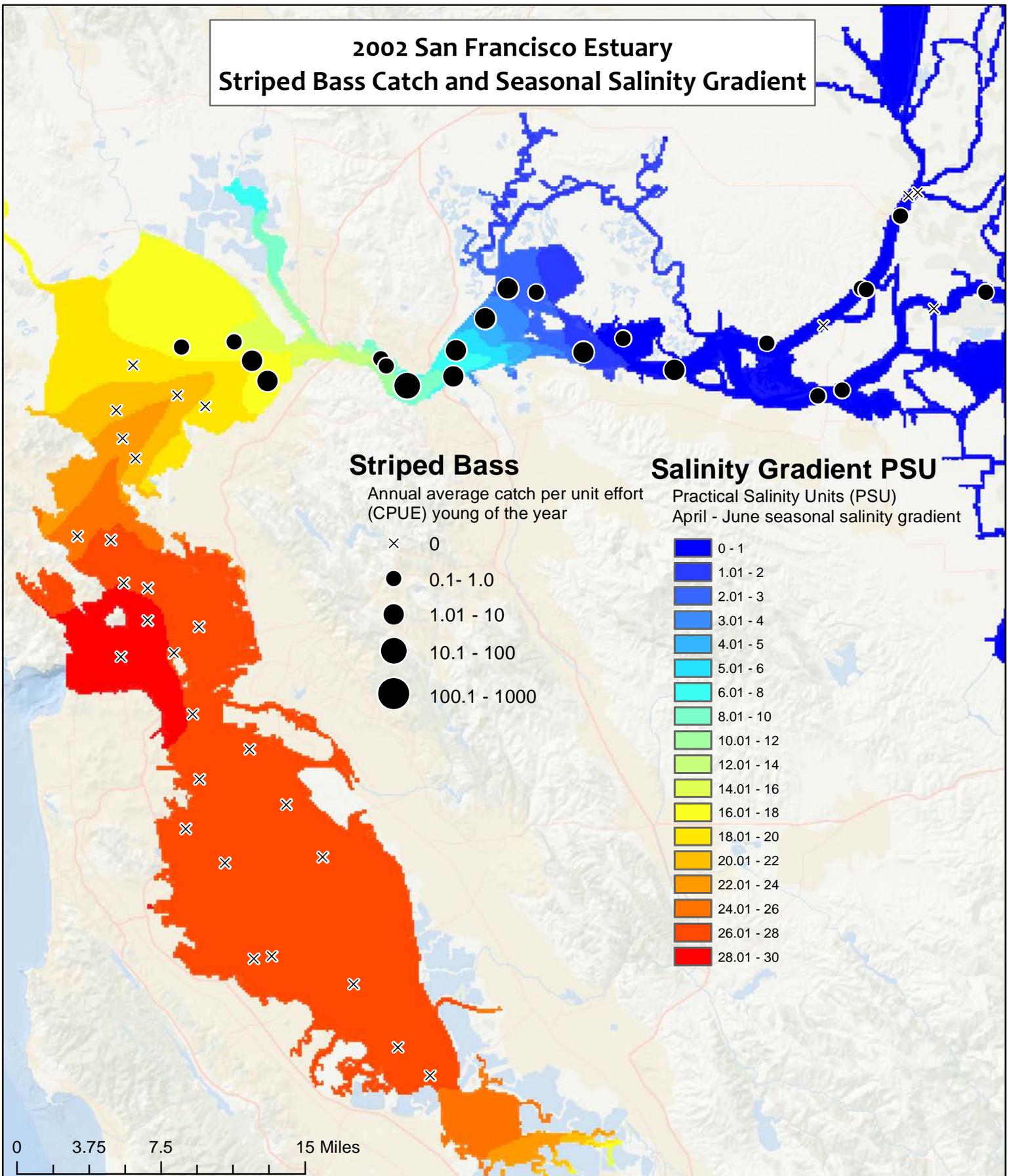
E. Foresman 7/13/2015

Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



2002 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), *Marine Ecology and Progress Series* 243: 39-55.

WTR1502244.7

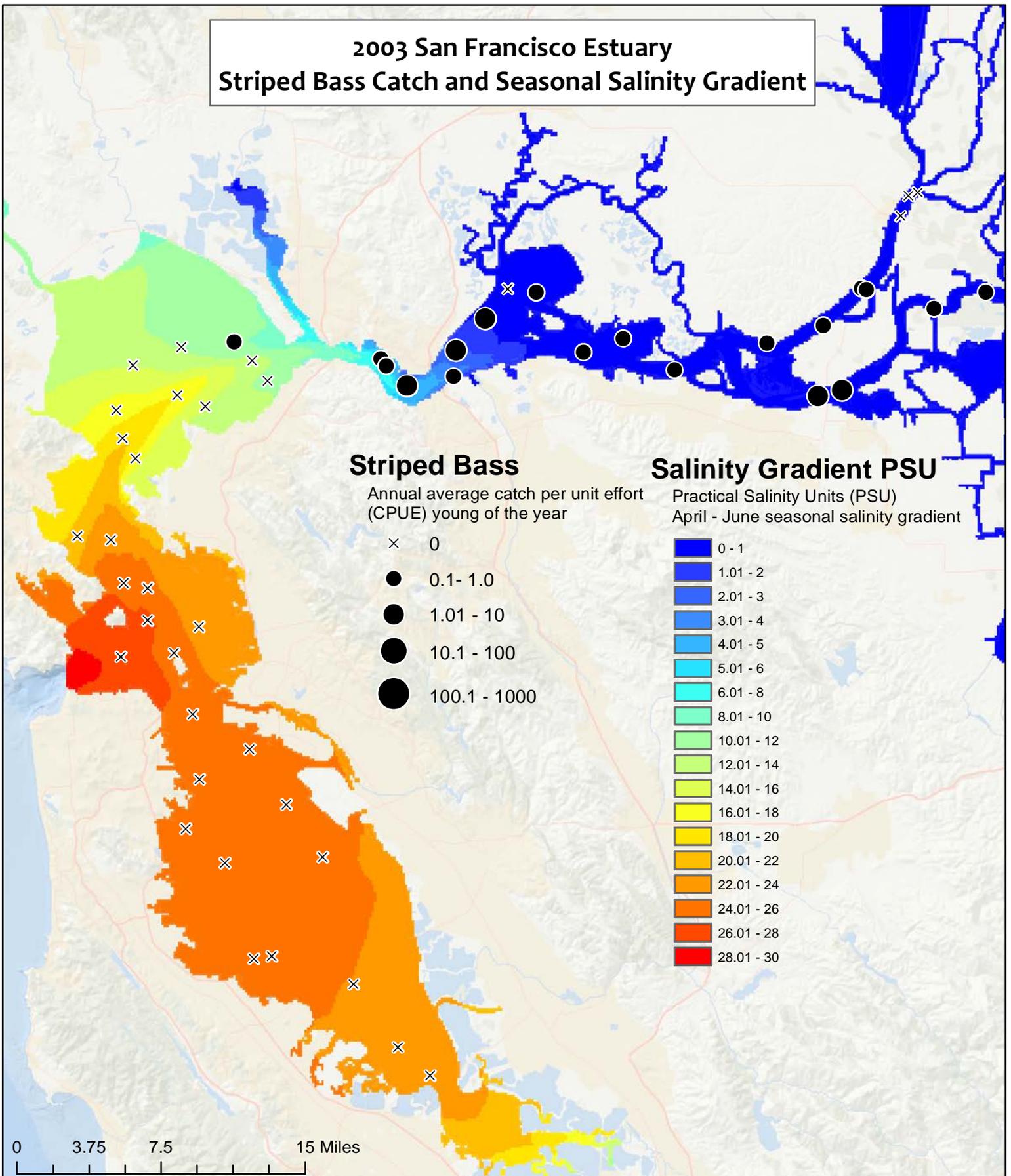
E. Foresman 7/13/2015

Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



2003 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

WTR1502244.7

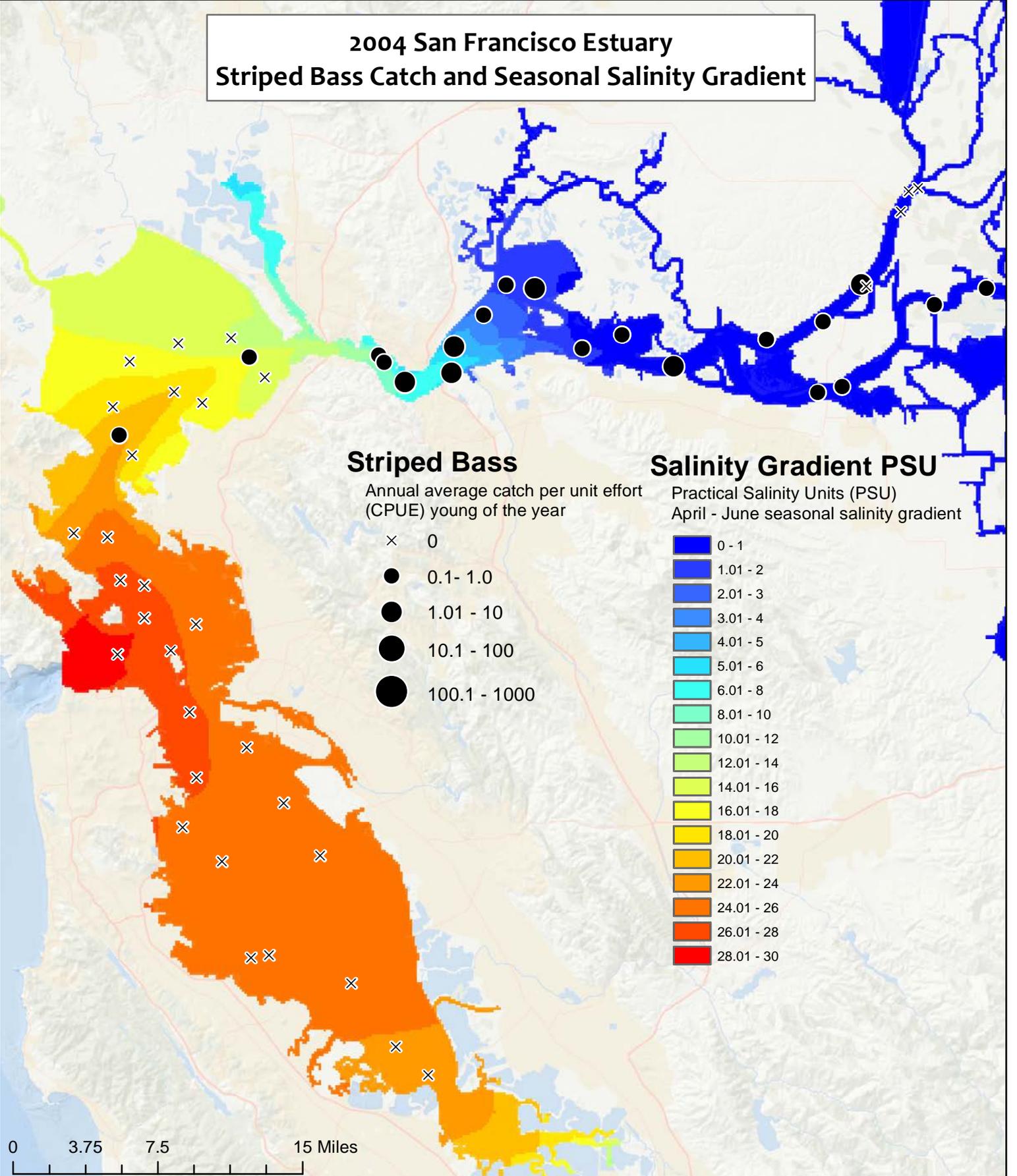
E. Foresman 7/13/2015

Data sources

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Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



2004 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



Striped Bass

Annual average catch per unit effort (CPUE) young of the year

- × 0
- 0.1 - 1.0
- 1.01 - 10
- 10.1 - 100
- 100.1 - 1000

Salinity Gradient PSU

Practical Salinity Units (PSU)
April - June seasonal salinity gradient

- 0 - 1
- 1.01 - 2
- 2.01 - 3
- 3.01 - 4
- 4.01 - 5
- 5.01 - 6
- 6.01 - 8
- 8.01 - 10
- 10.01 - 12
- 12.01 - 14
- 14.01 - 16
- 16.01 - 18
- 18.01 - 20
- 20.01 - 22
- 22.01 - 24
- 24.01 - 26
- 26.01 - 28
- 28.01 - 30

0 3.75 7.5 15 Miles

About this map

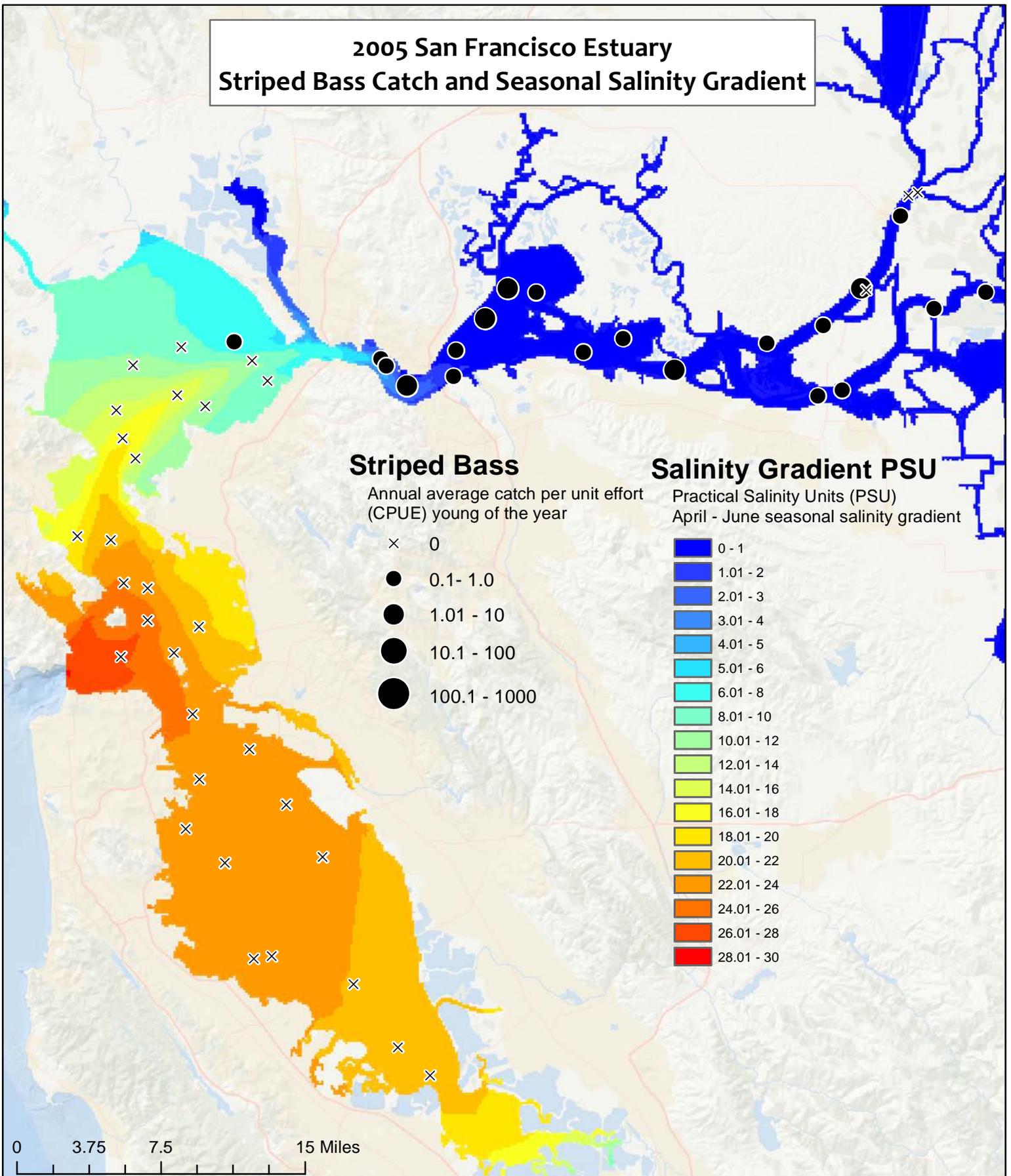
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Data sources

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2005 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), *Marine Ecology and Progress Series* 243: 39-55.

WTR1502244.7

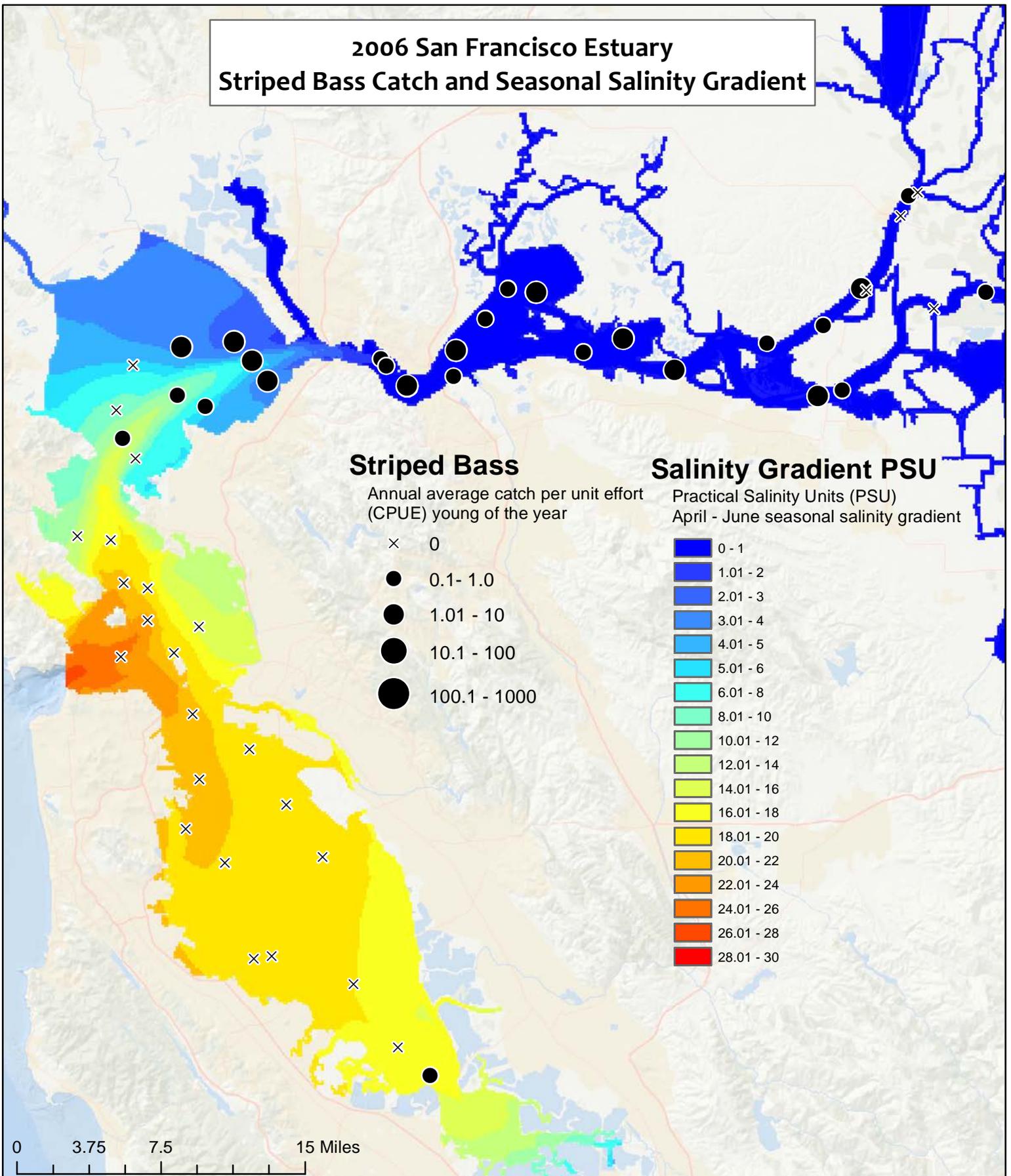
E. Foresman 7/13/2015

Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



2006 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

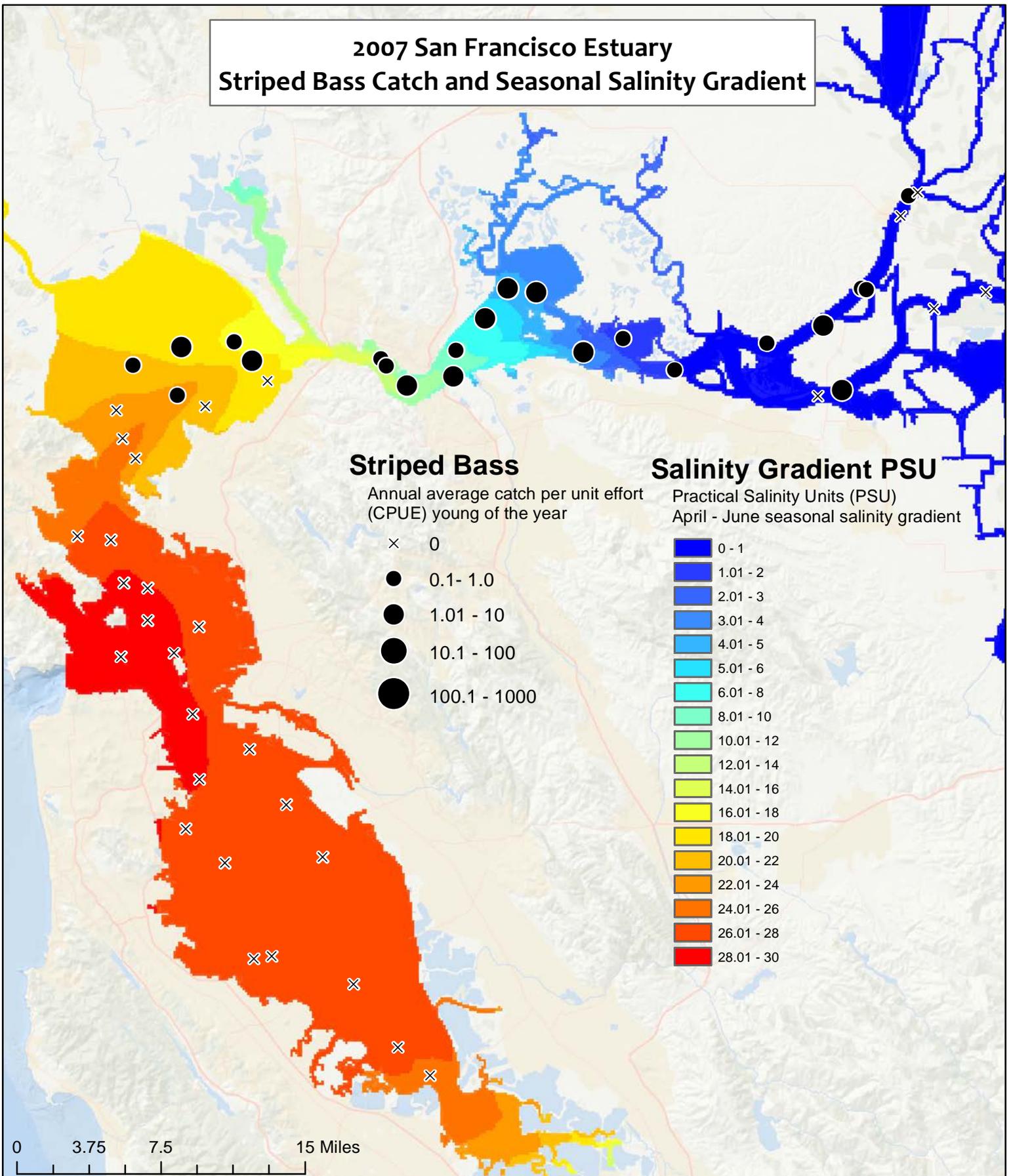
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Data sources

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Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



2007 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

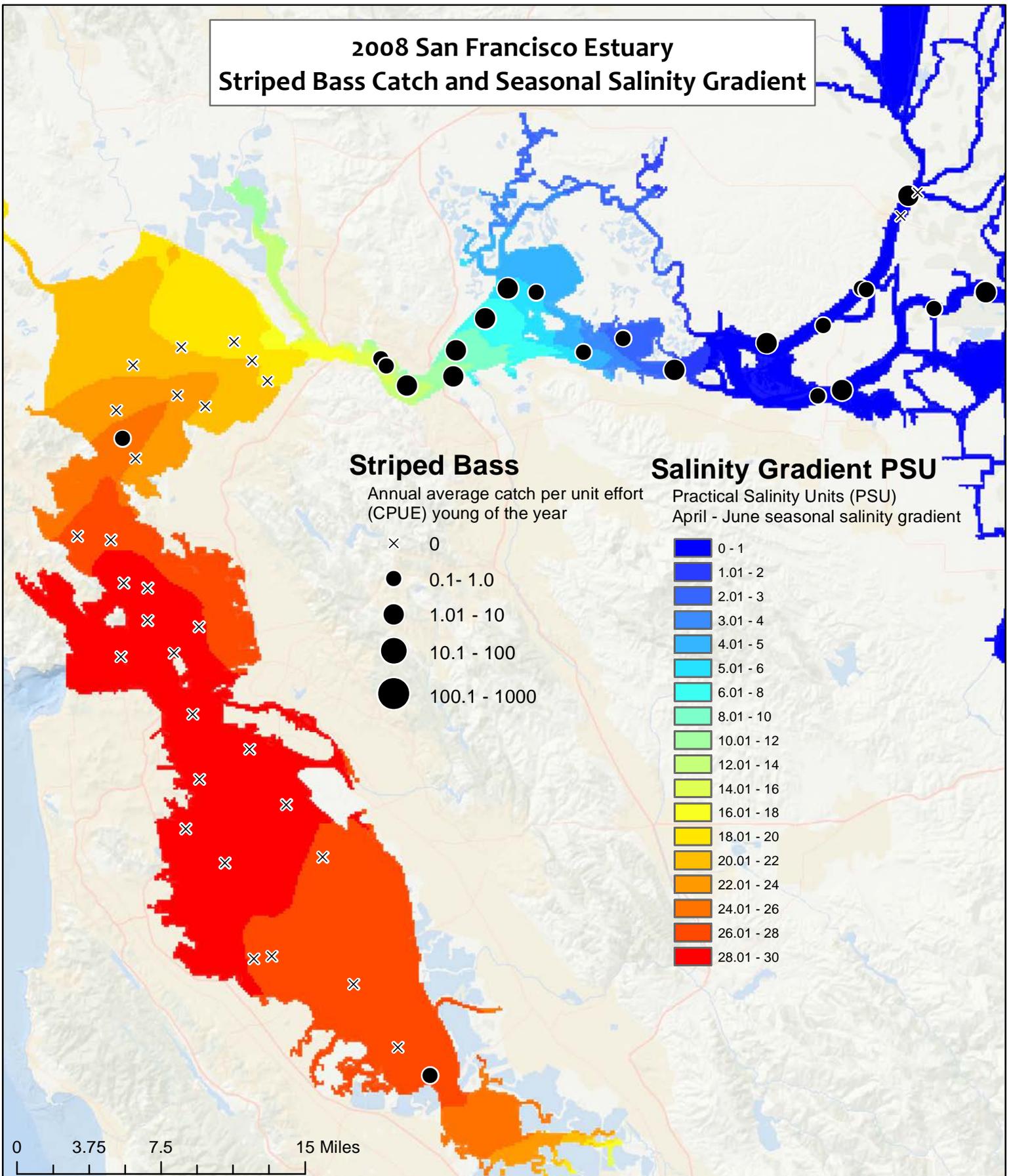
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Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



2008 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



About this map

The April to June seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of striped bass young of the year for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), *Marine Ecology and Progress Series* 243: 39-55.

WTR1502244.7

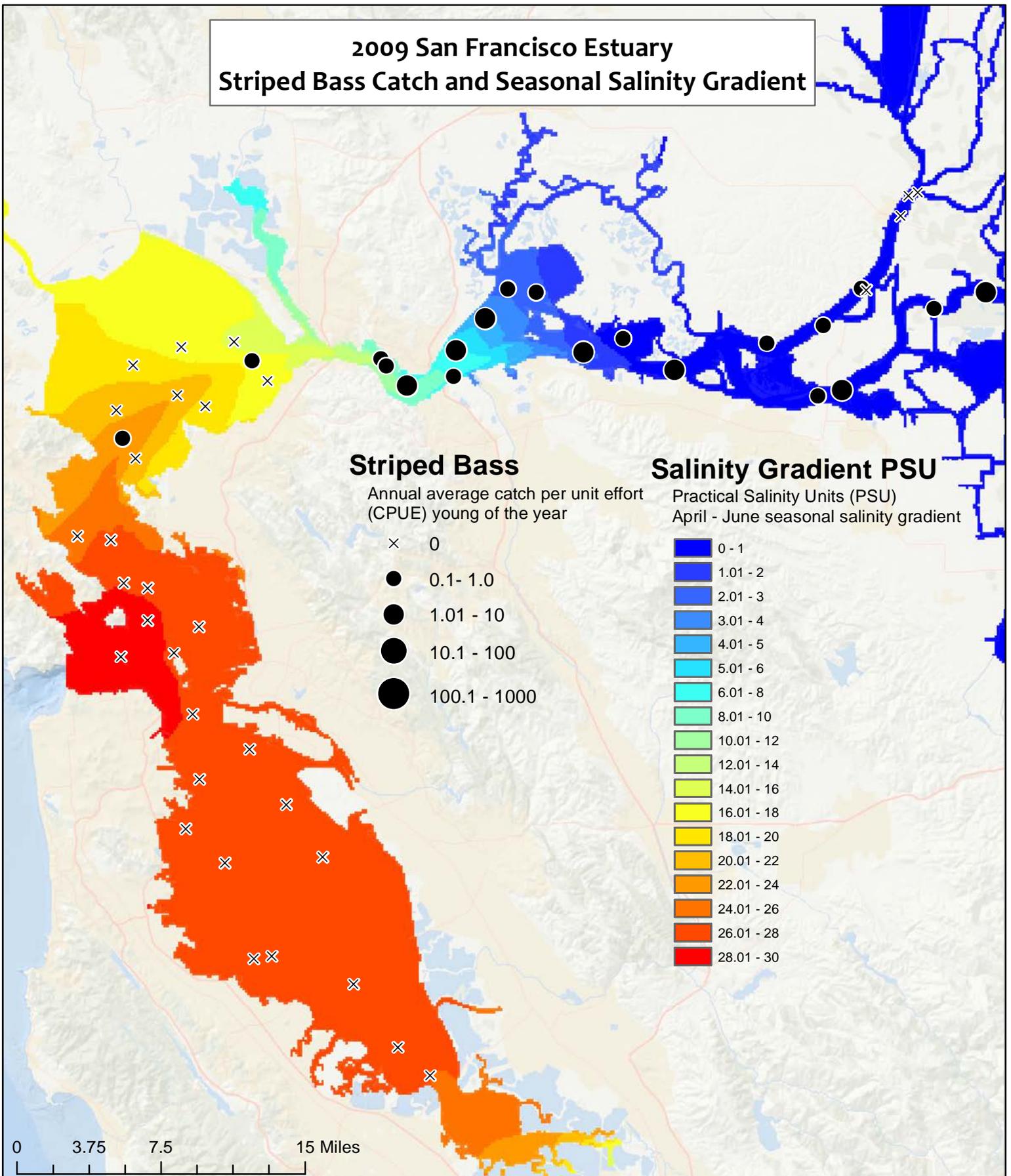
E. Foresman 7/13/2015

Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
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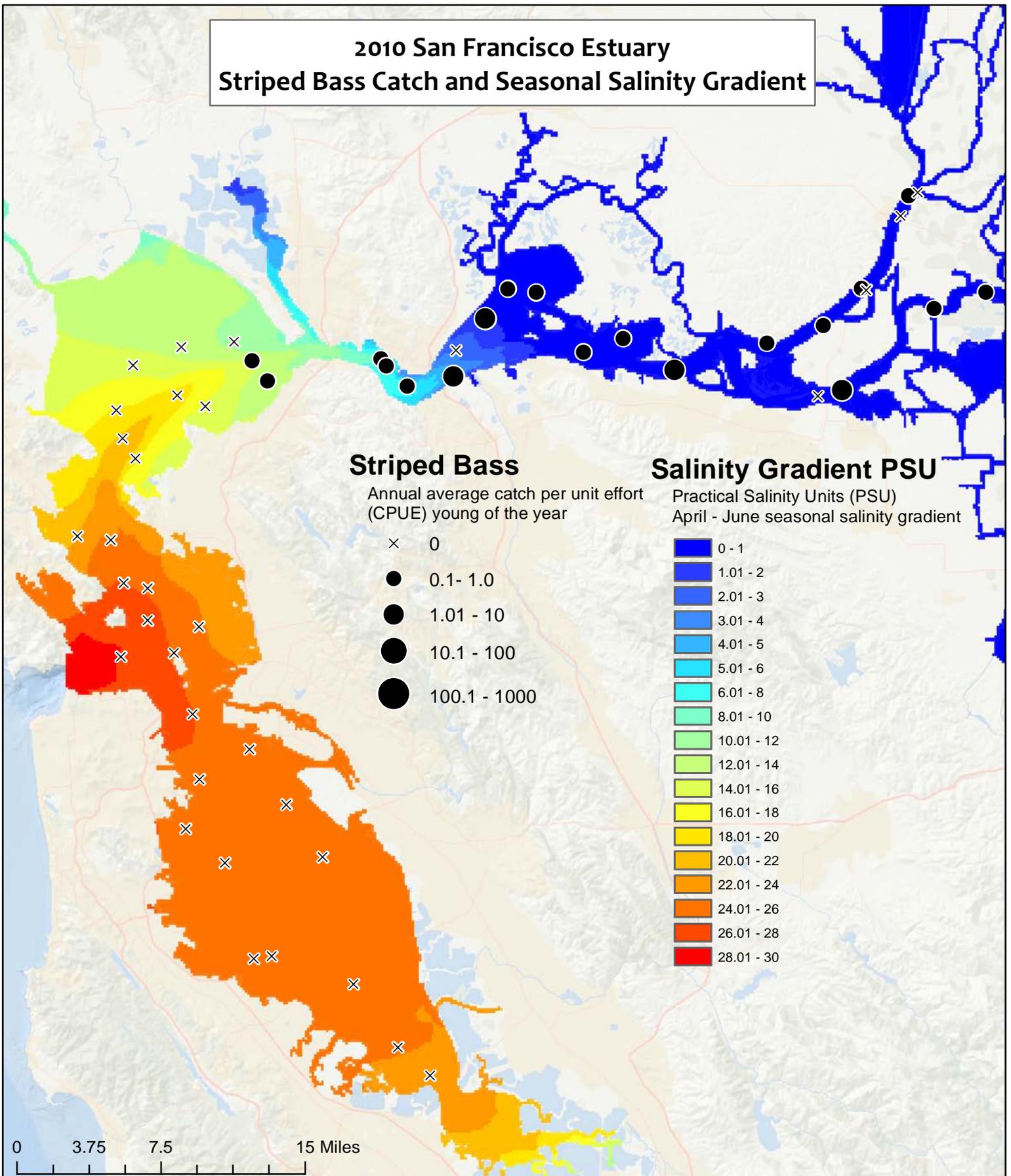
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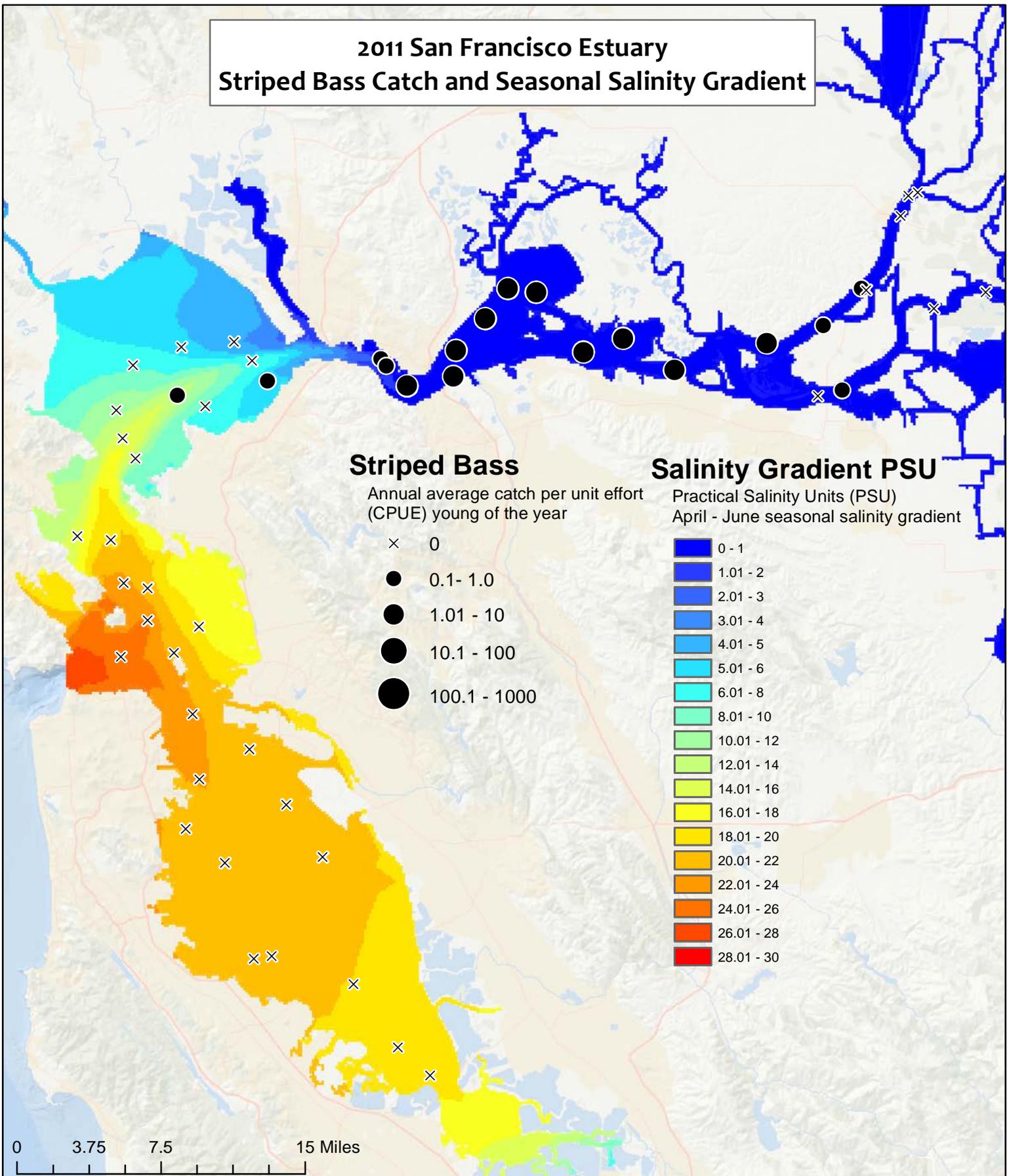
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2011 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



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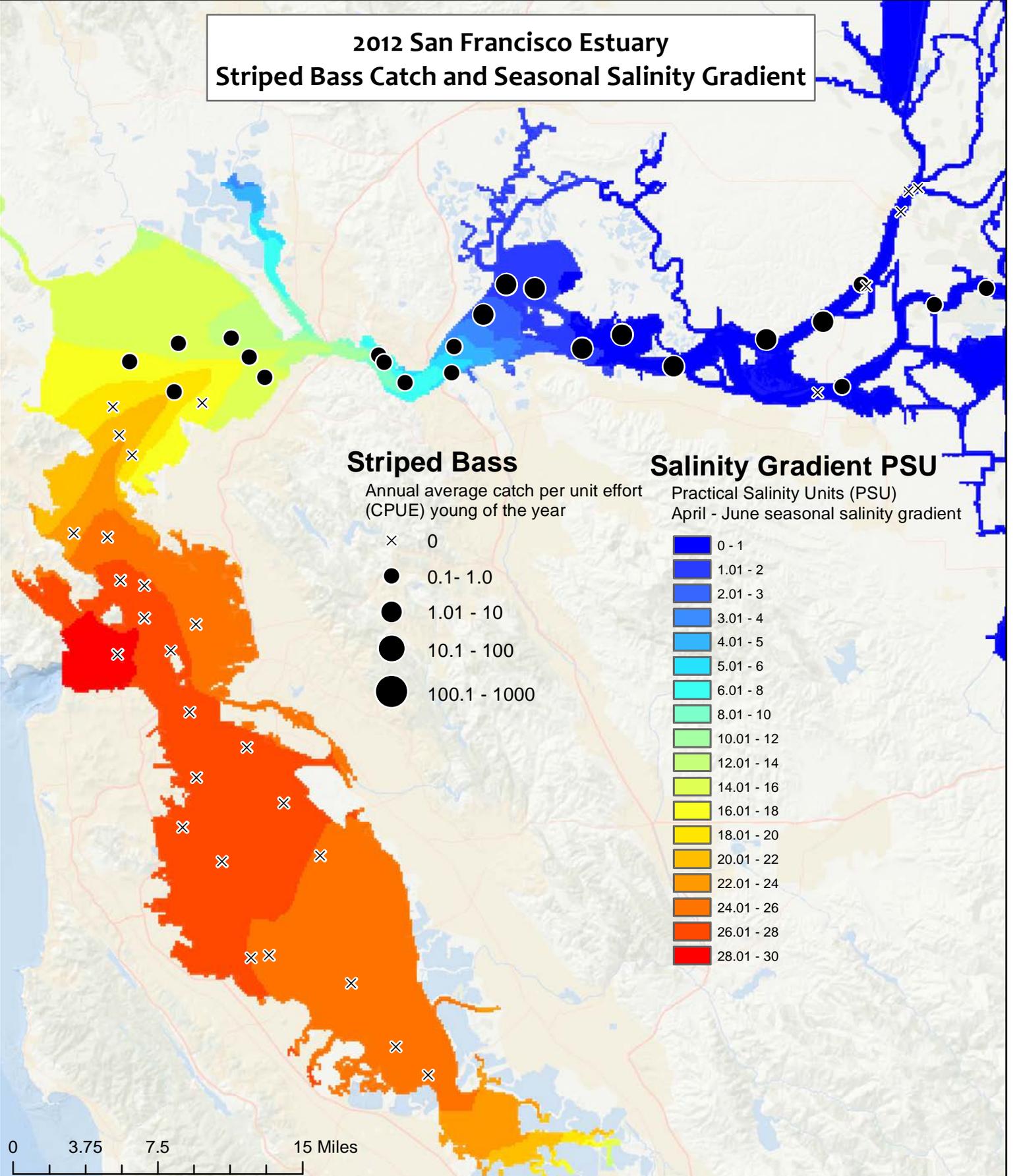
E. Foresman 7/13/2015

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2012 San Francisco Estuary Striped Bass Catch and Seasonal Salinity Gradient



Striped Bass

Annual average catch per unit effort (CPUE) young of the year

- × 0
- 0.1 - 1.0
- 1.01 - 10
- 10.1 - 100
- 100.1 - 1000

Salinity Gradient PSU

Practical Salinity Units (PSU)
April - June seasonal salinity gradient

- 0 - 1
- 1.01 - 2
- 2.01 - 3
- 3.01 - 4
- 4.01 - 5
- 5.01 - 6
- 6.01 - 8
- 8.01 - 10
- 10.01 - 12
- 12.01 - 14
- 14.01 - 16
- 16.01 - 18
- 18.01 - 20
- 20.01 - 22
- 22.01 - 24
- 24.01 - 26
- 26.01 - 28
- 28.01 - 30

0 3.75 7.5 15 Miles

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