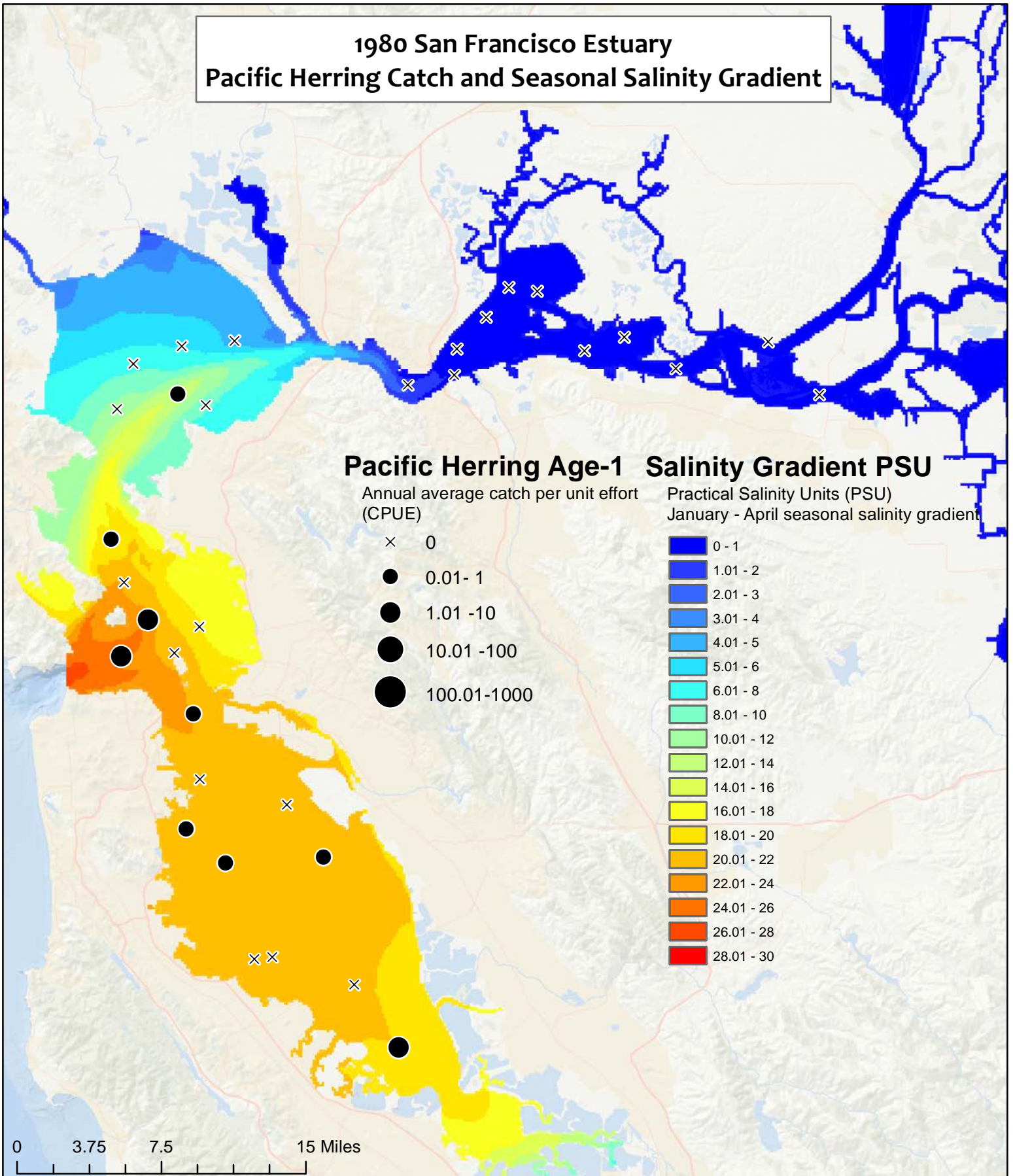


1980 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring 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.

WTR1502244.4

E. Foresman 7/13/2015

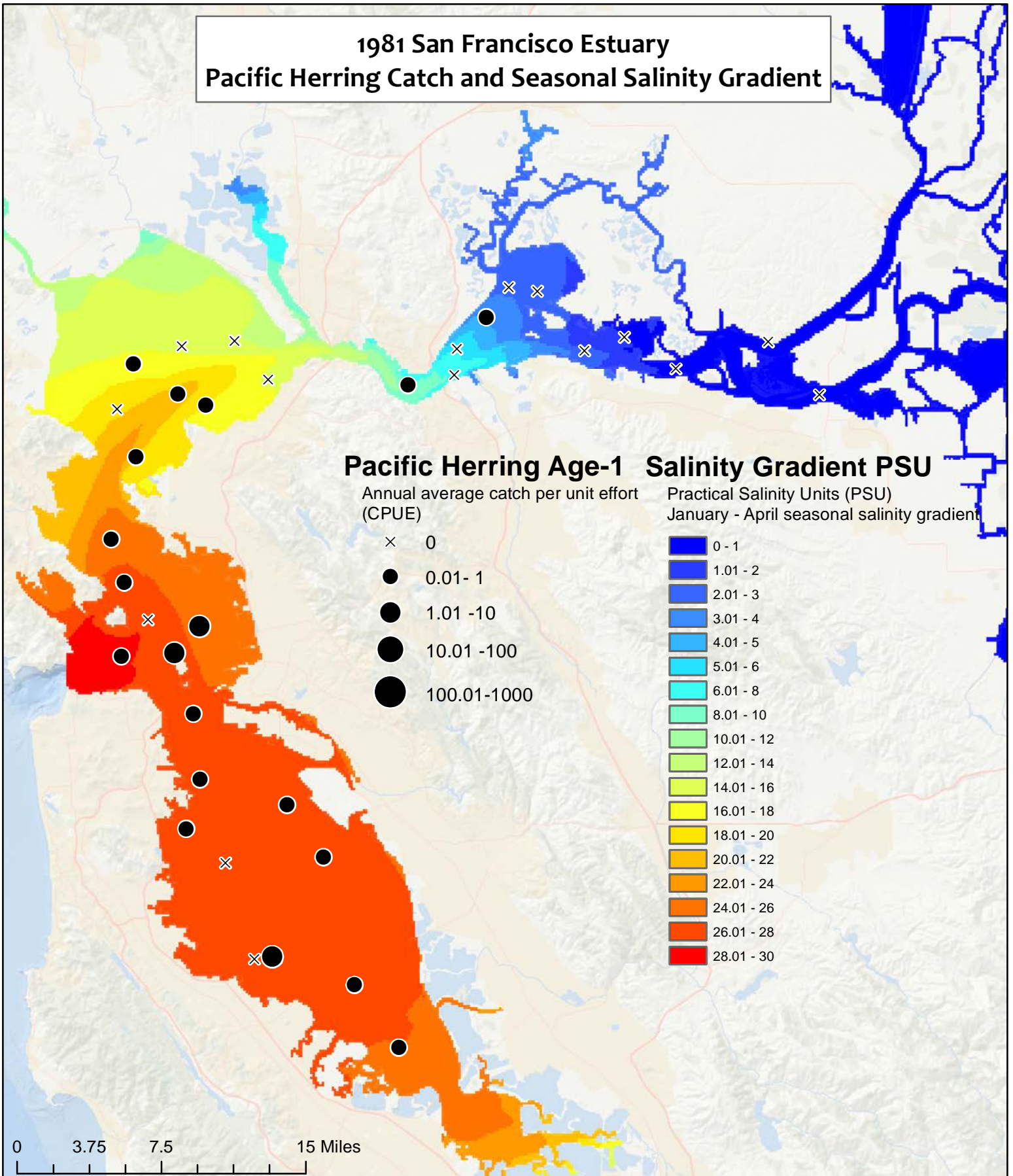
Data sources

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 Pacific Herring Catch and Seasonal Salinity Gradient



About this map

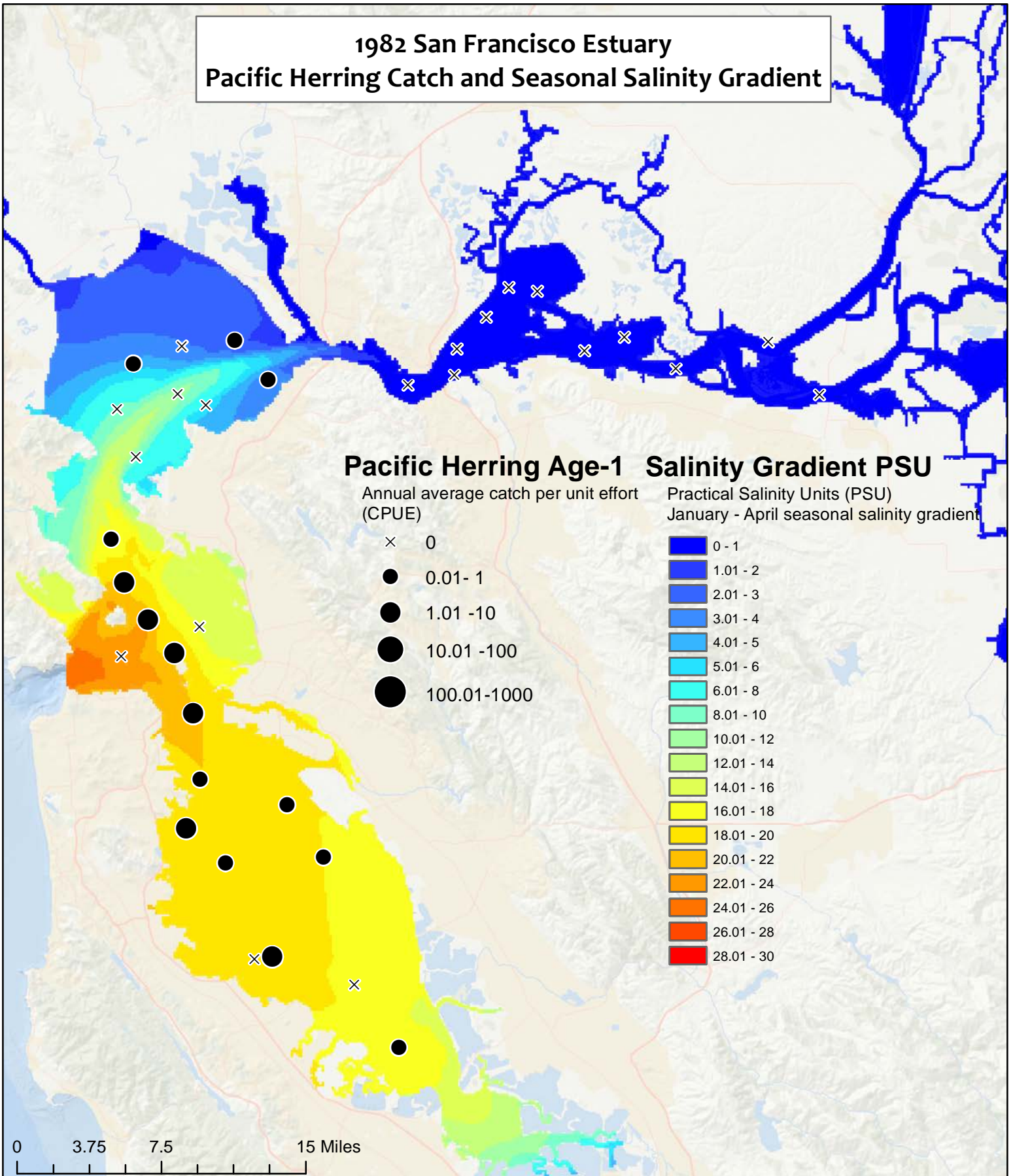
The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress 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



1982 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring 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.

WTR1502244.4

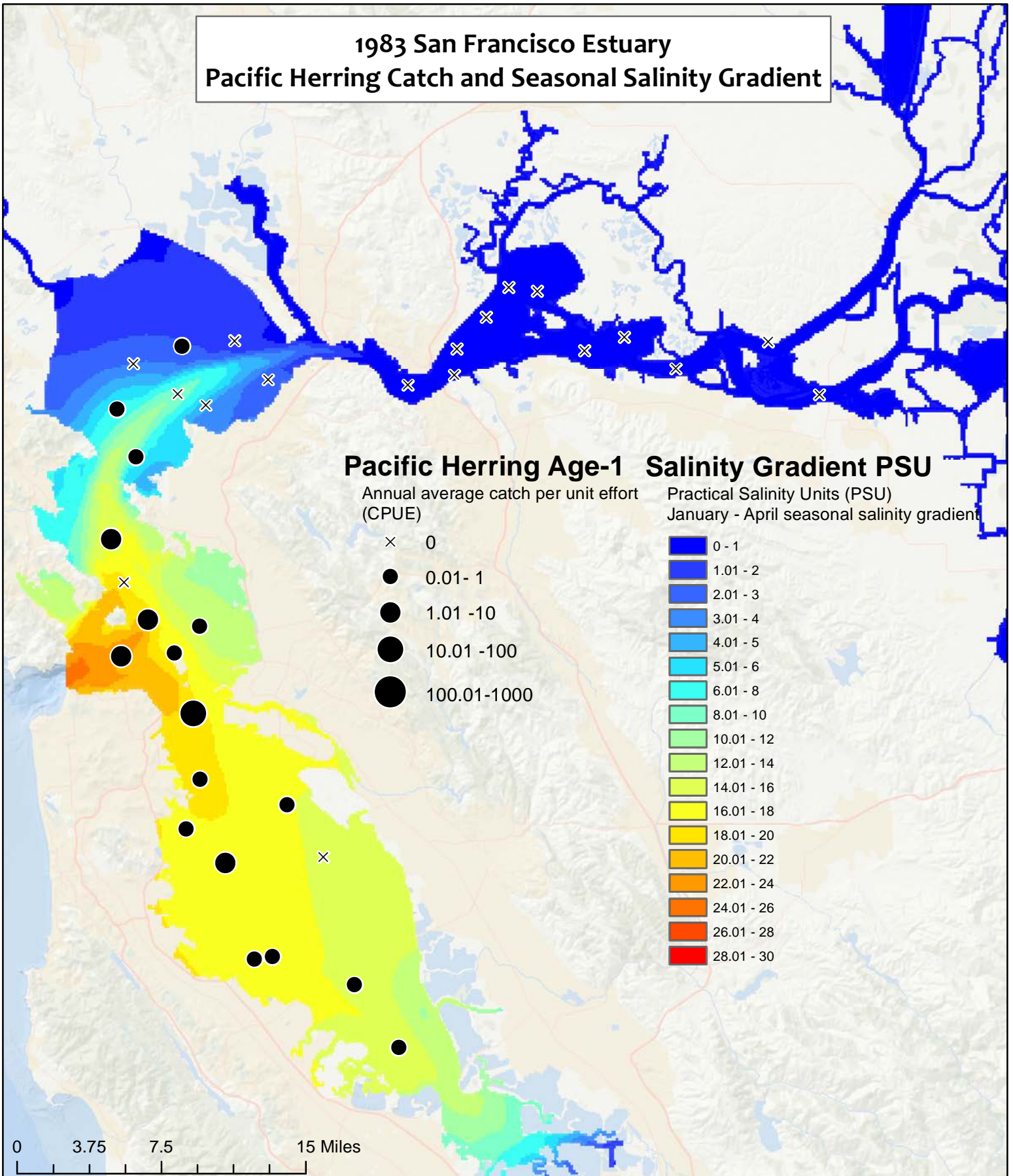
E. Foresman 7/13/2015

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 Pacific Herring Catch and Seasonal Salinity Gradient



About this map

The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring 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.

WTR1502244.4

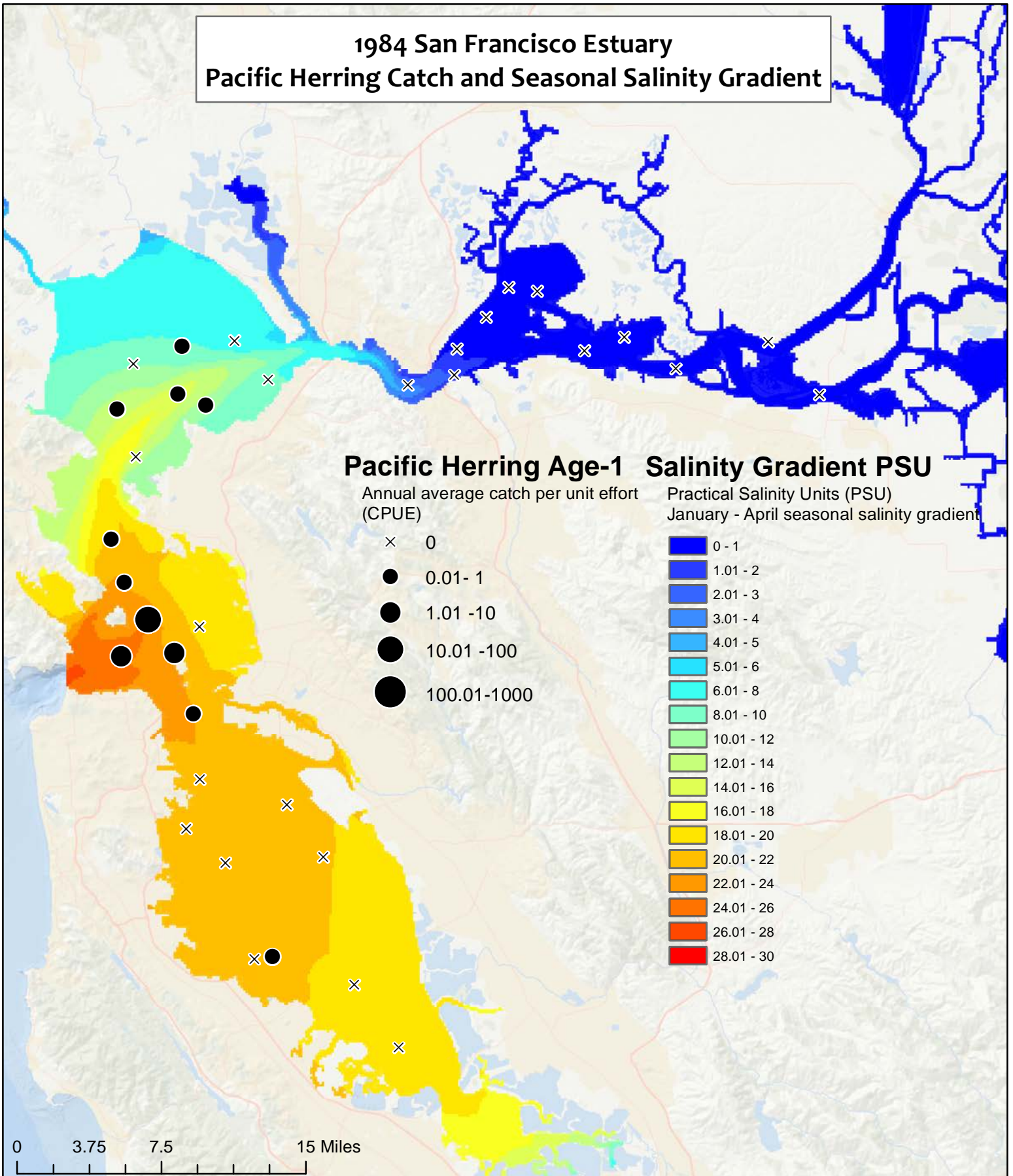
E. Foresman 7/13/2015

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 Pacific Herring Catch and Seasonal Salinity Gradient



About this map

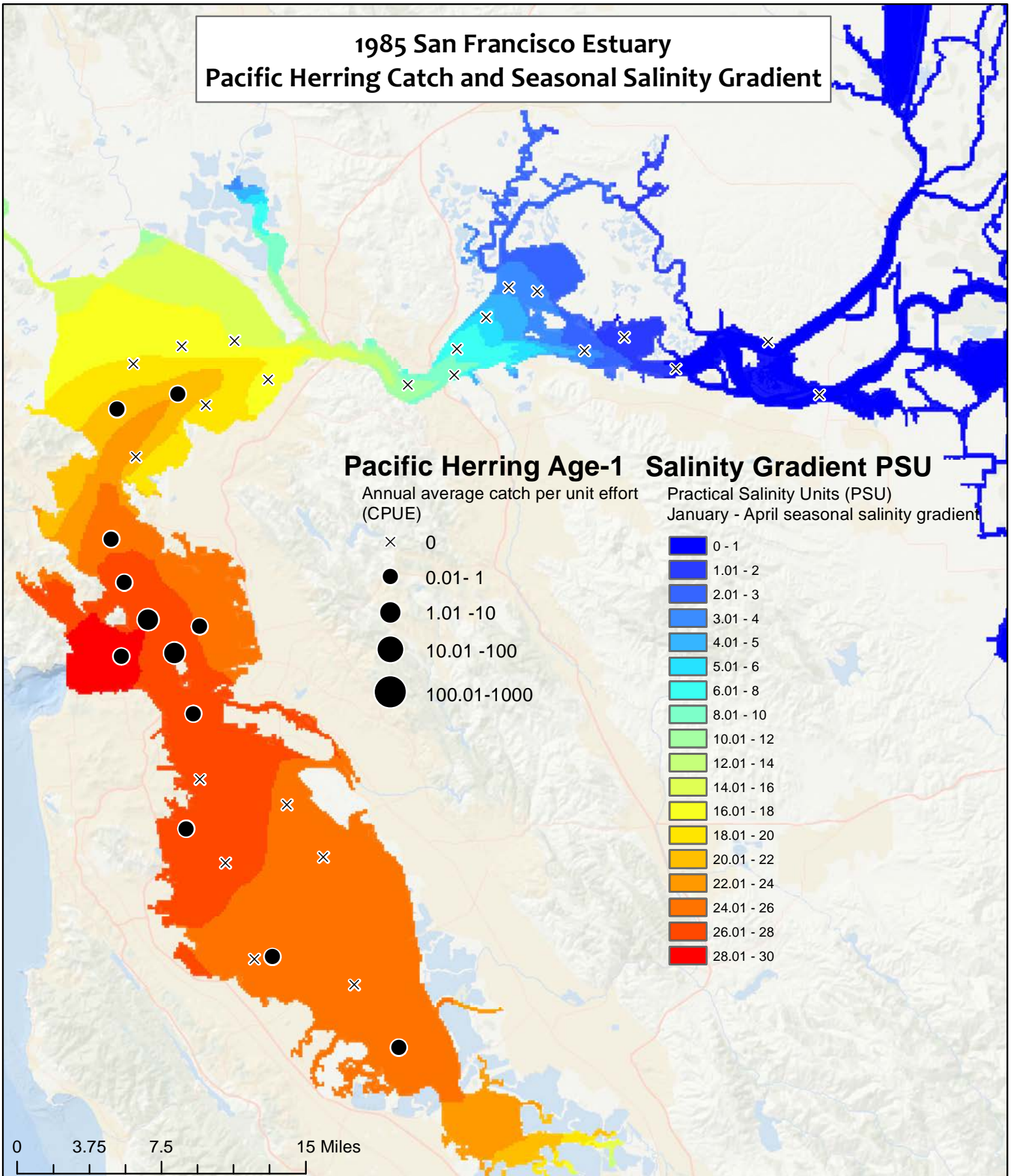
The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress 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



1985 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

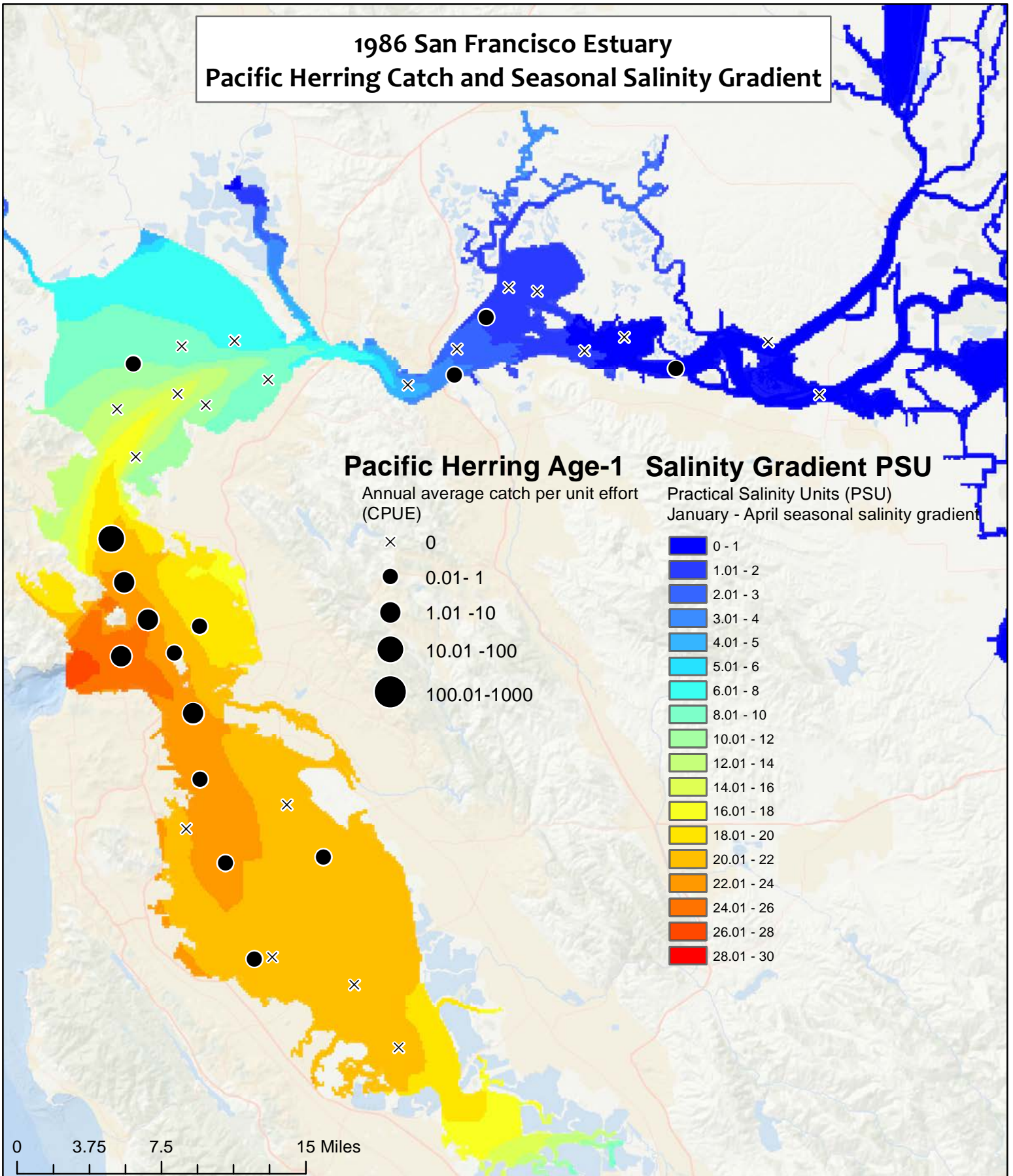
The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress 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



1986 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring 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.

WTR1502244.4

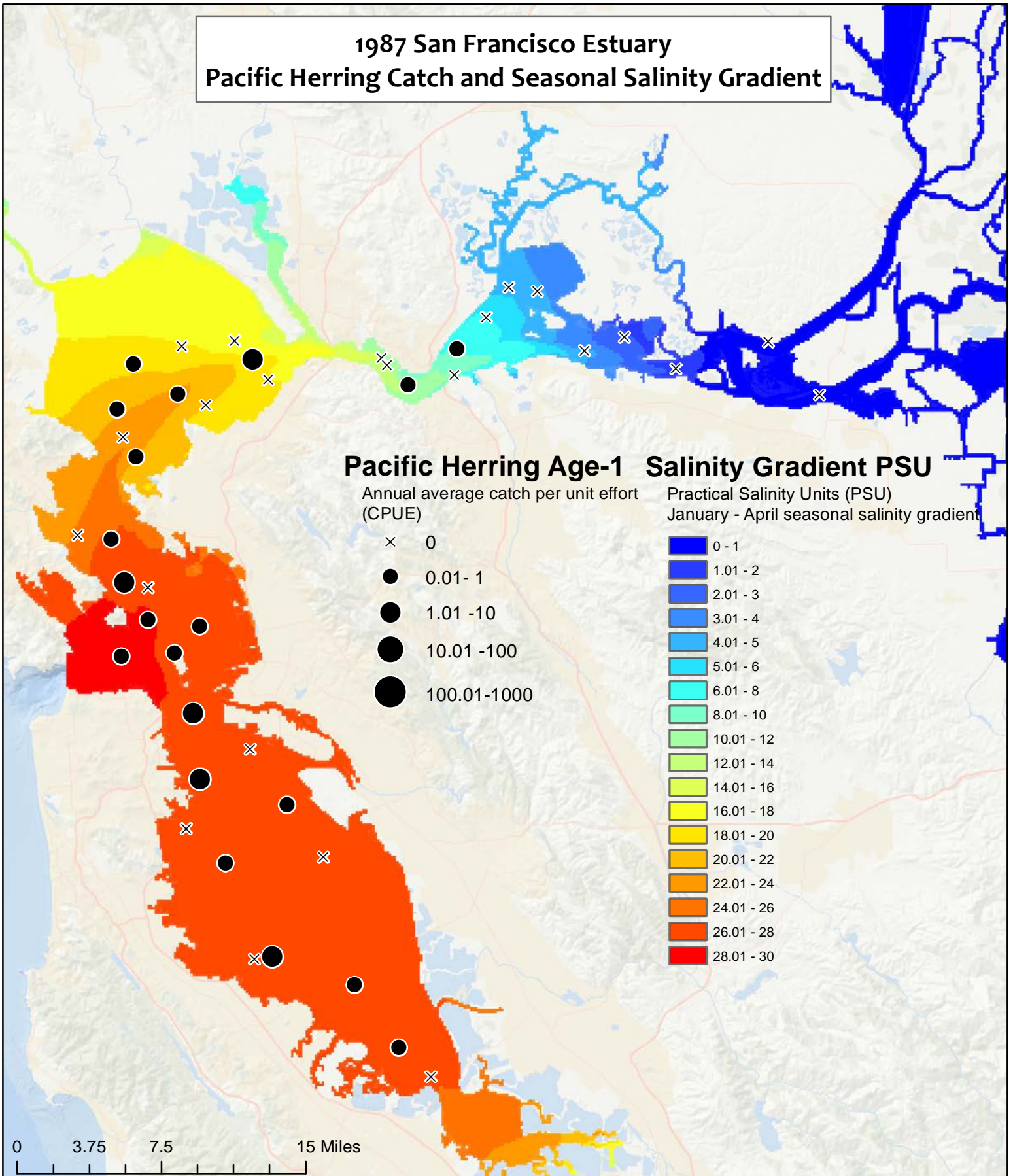
E. Foresman 7/13/2015

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 Pacific Herring Catch and Seasonal Salinity Gradient



About this map

The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring 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.

WTR1502244.4

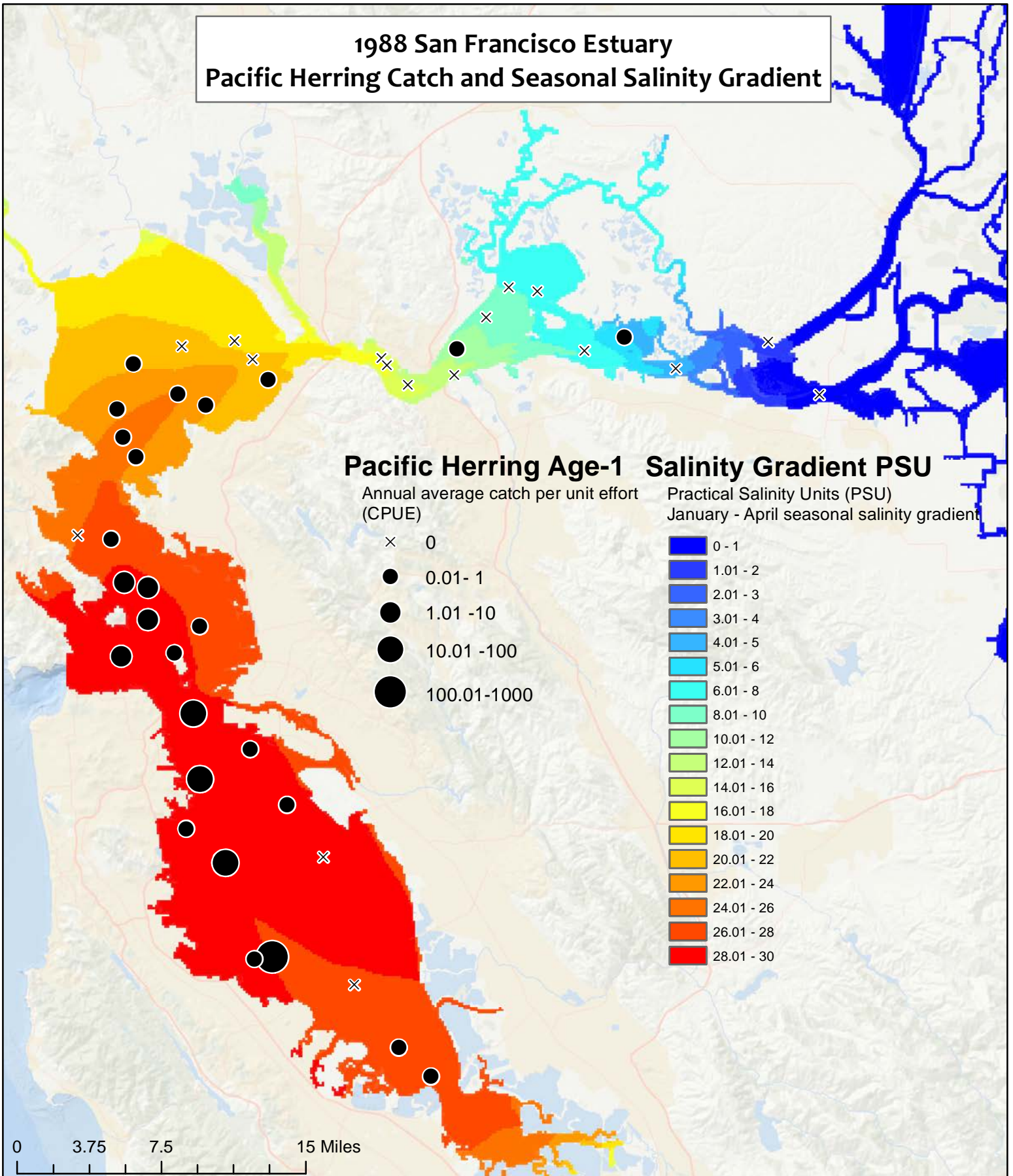
E. Foresman 7/13/2015

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



1988 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

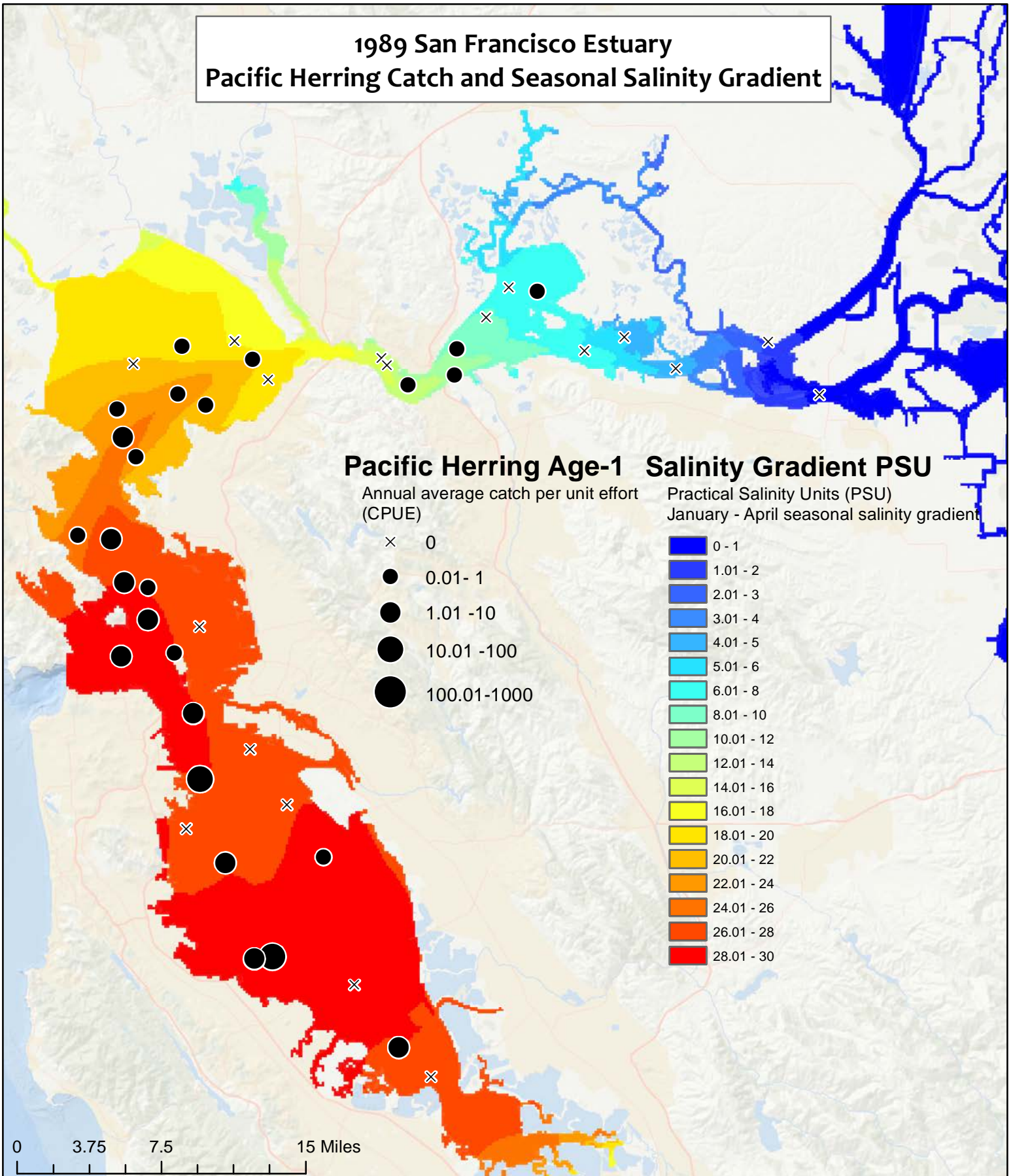
The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress 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



1989 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

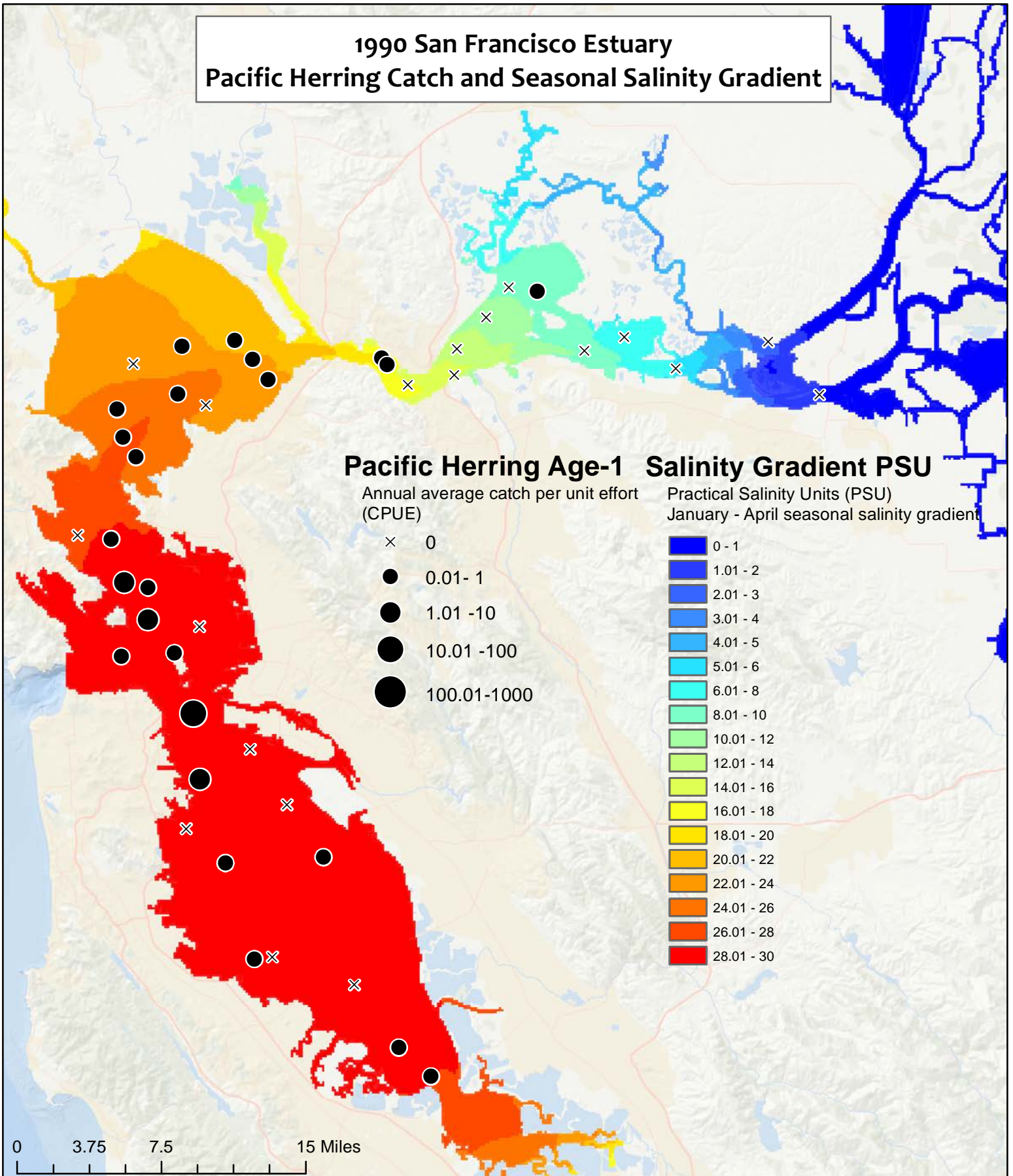
The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

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



1990 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring 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.

WTR1502244.4

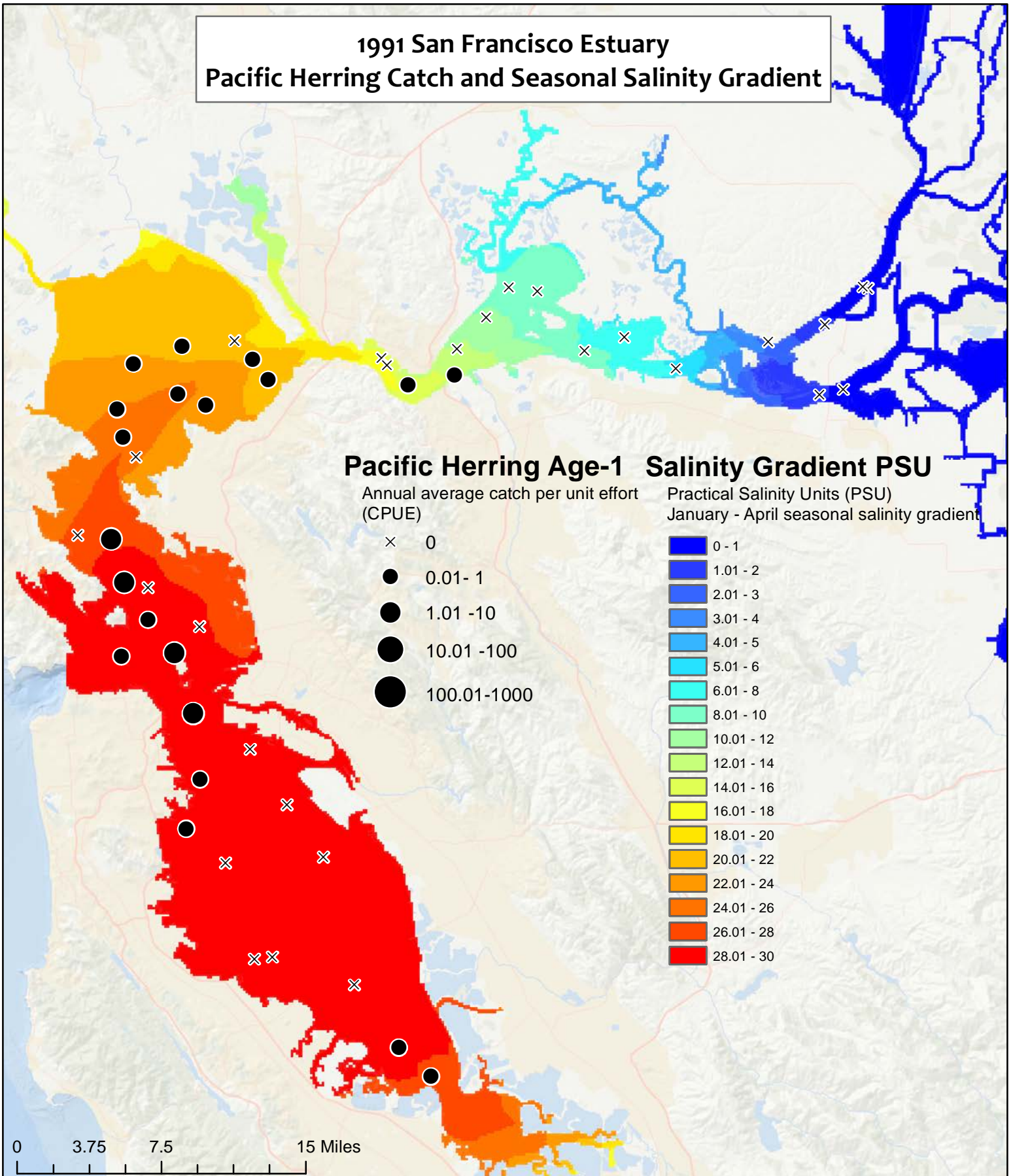
E. Foresman 7/13/2015

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



1991 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

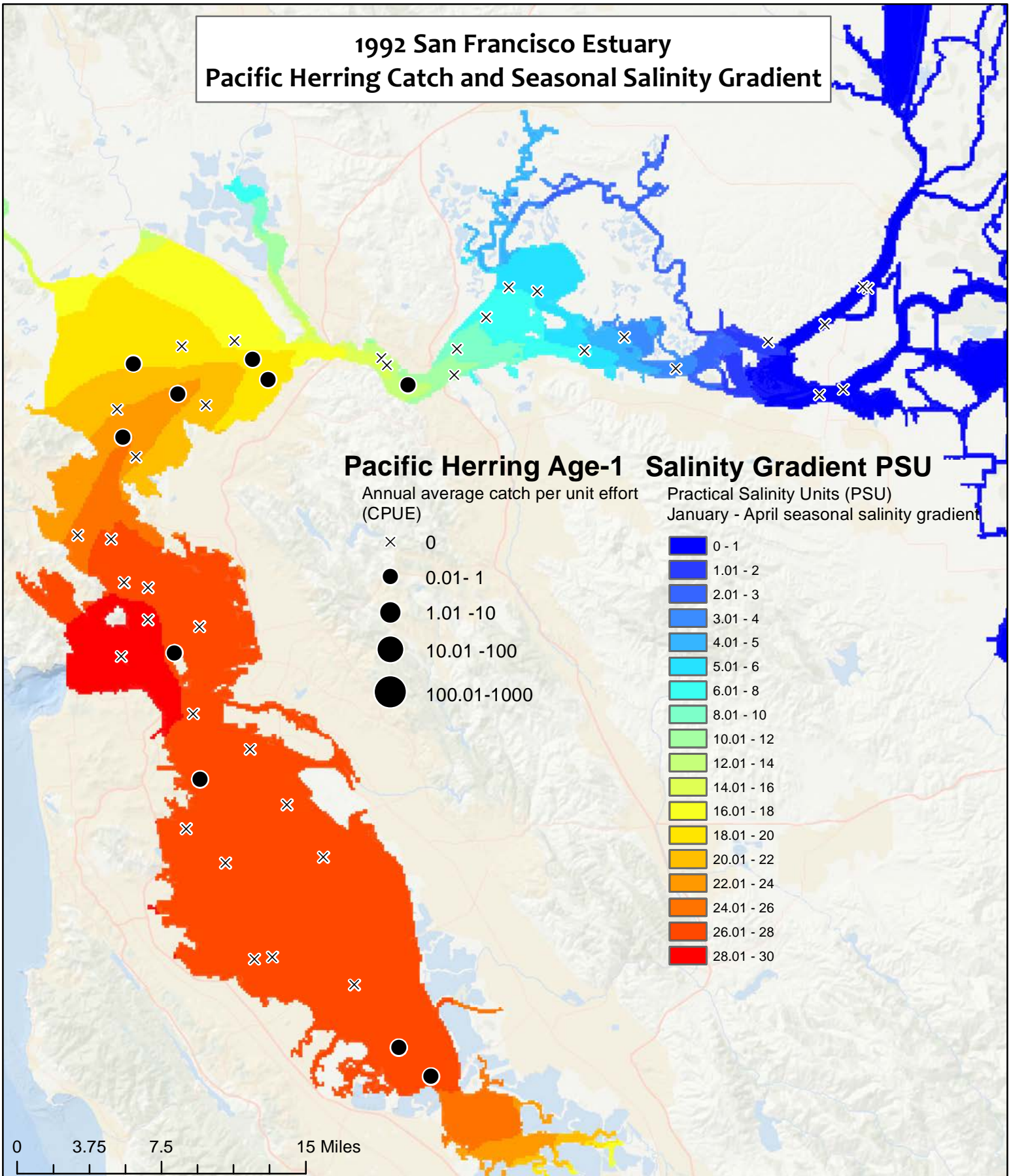
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1992 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

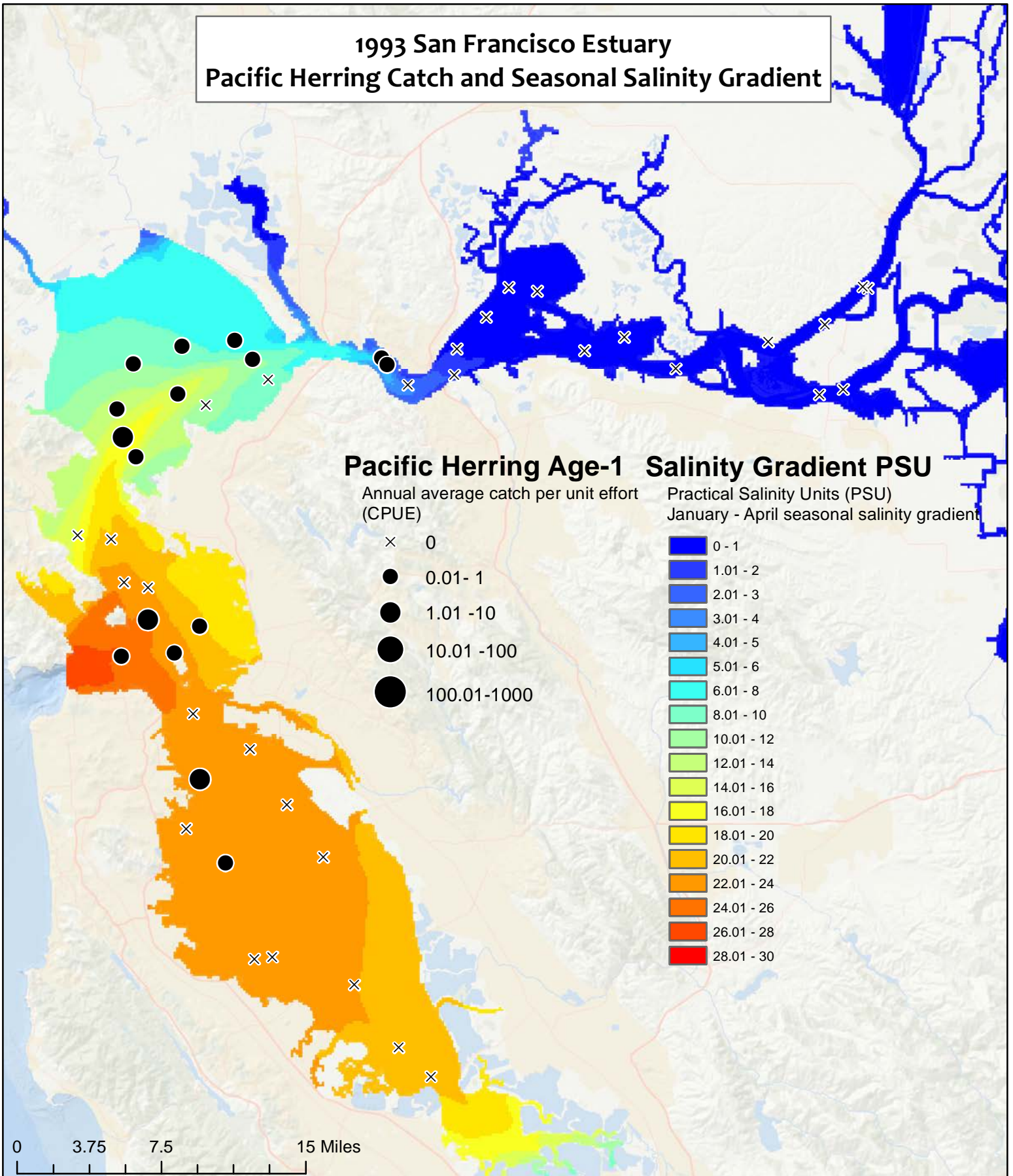
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1993 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

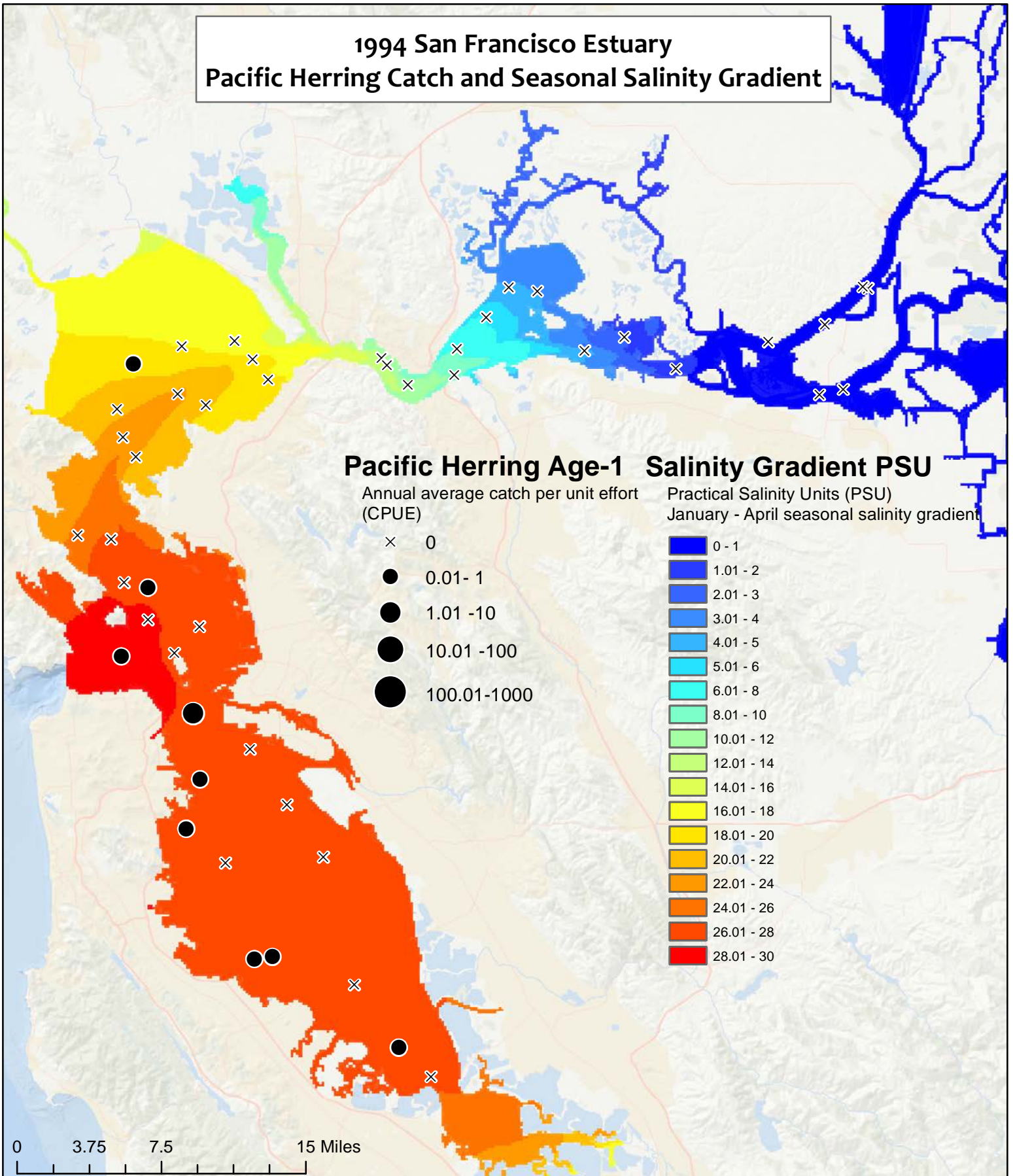
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Data sources

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1994 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring 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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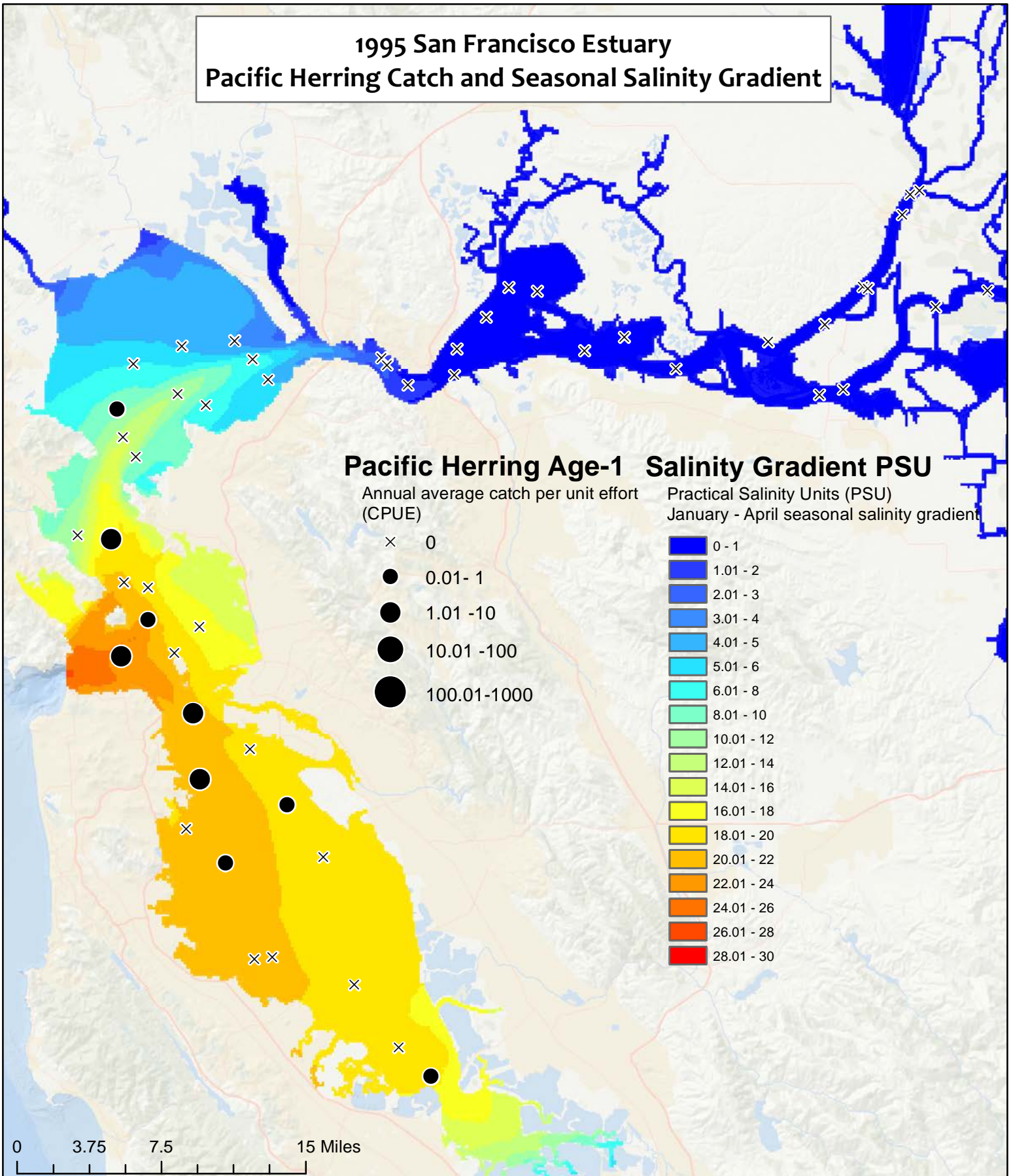
E. Foresman 7/13/2015

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 Pacific Herring Catch and Seasonal Salinity Gradient



About this map

The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring 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.

WTR1502244.4

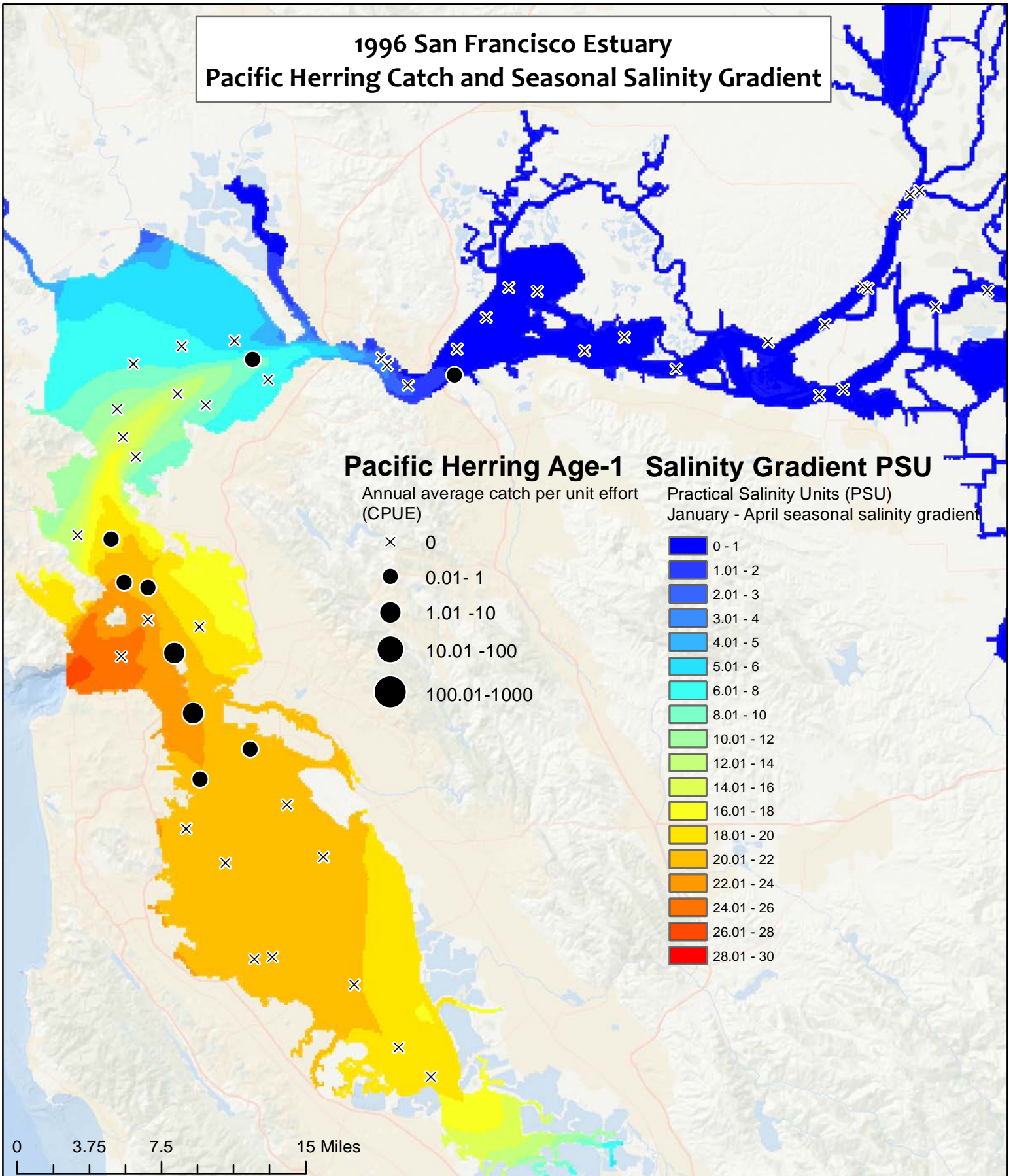
E. Foresman 7/13/2015

Data sources

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



1996 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

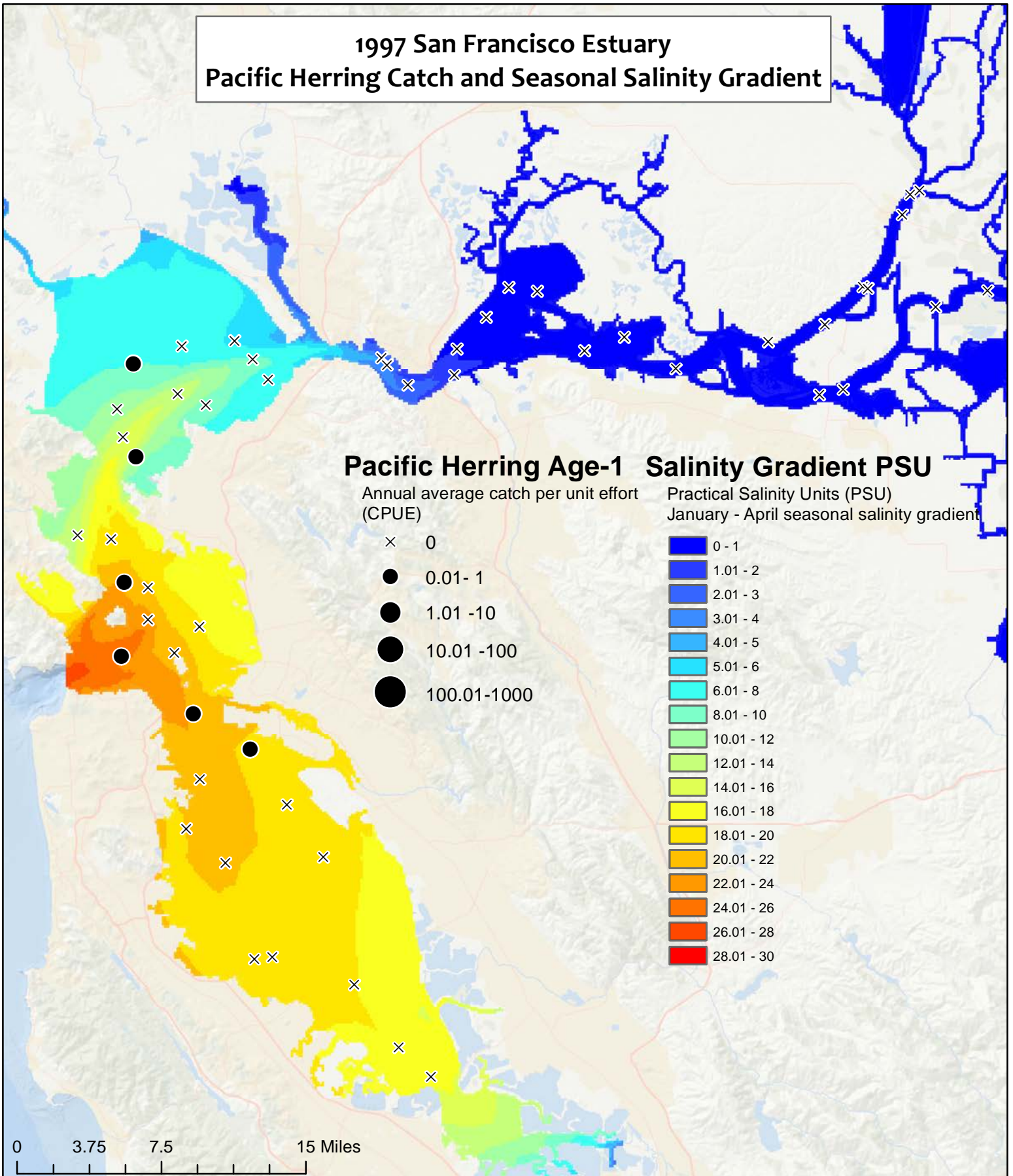
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 Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



1997 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

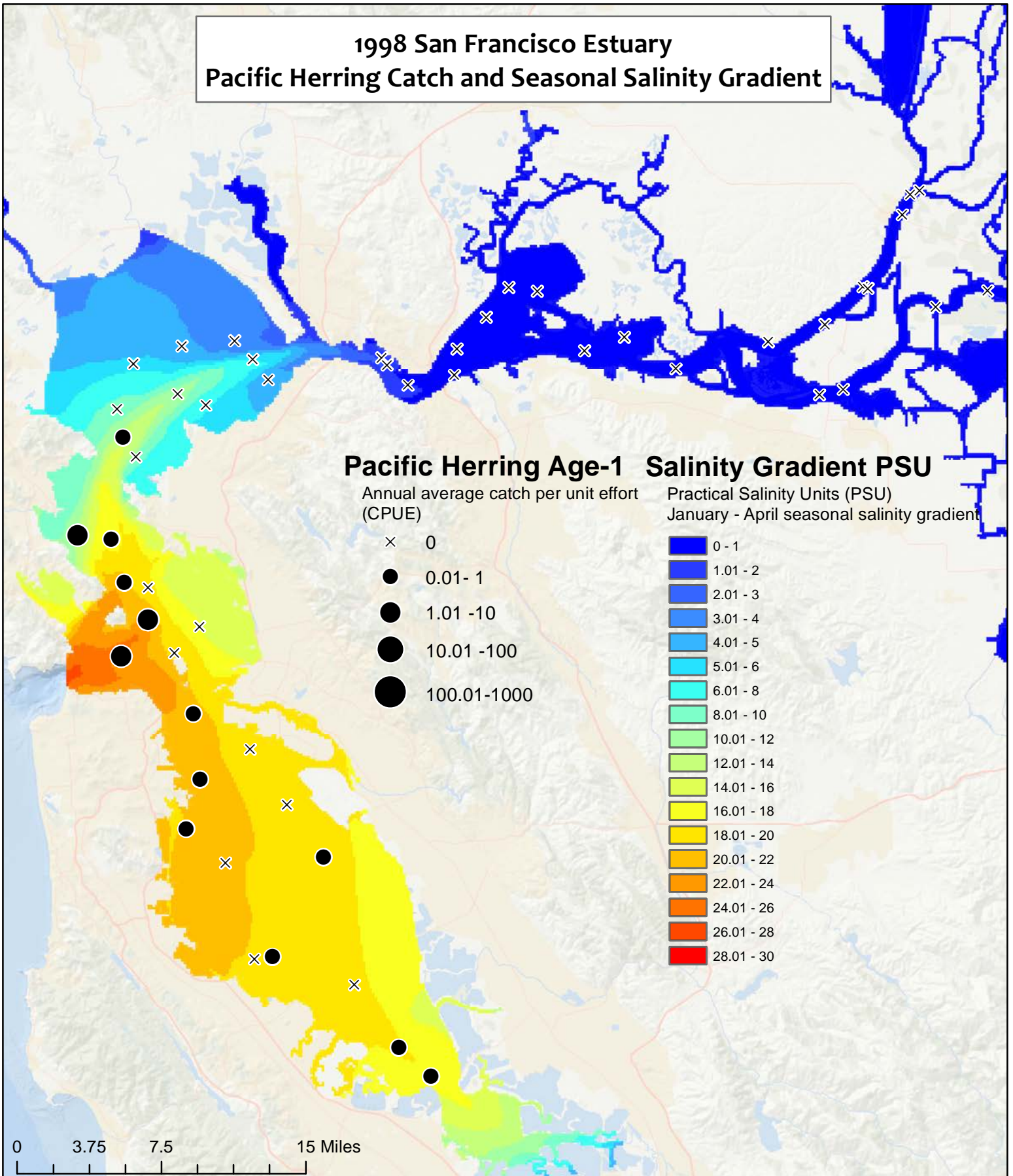
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1998 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring 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.

WTR1502244.4

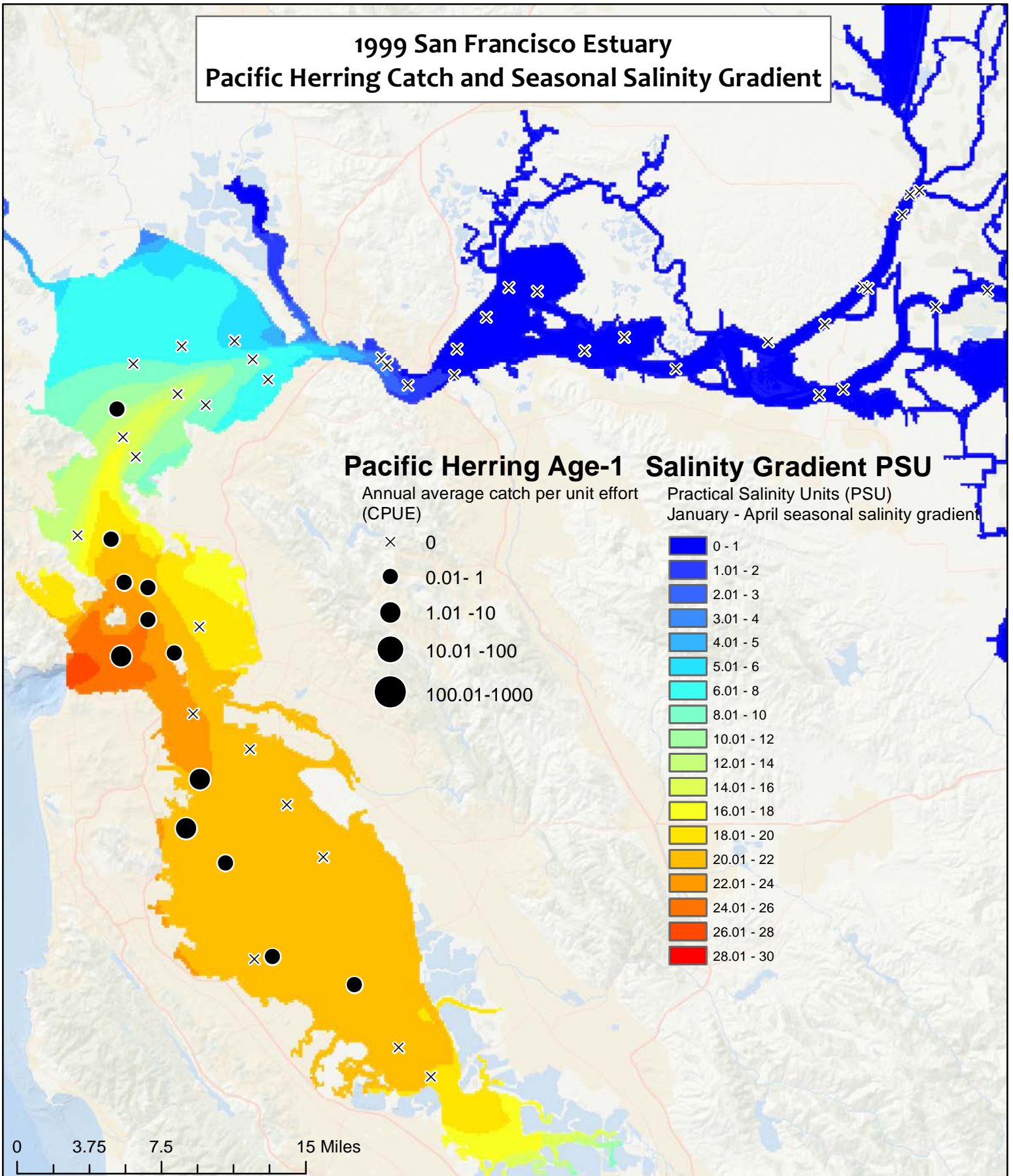
E. Foresman 7/13/2015

Data sources

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1999 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

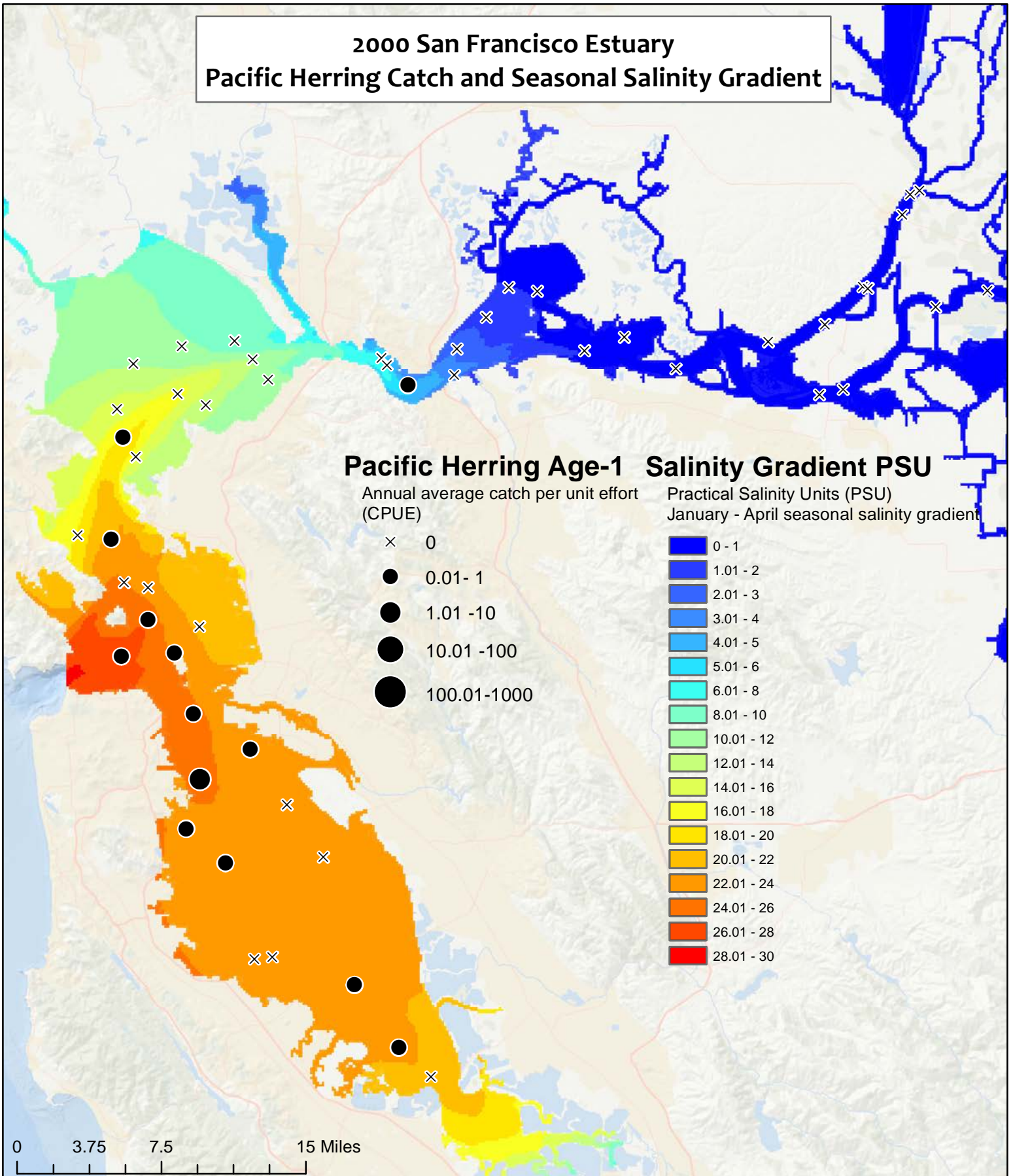
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2000 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

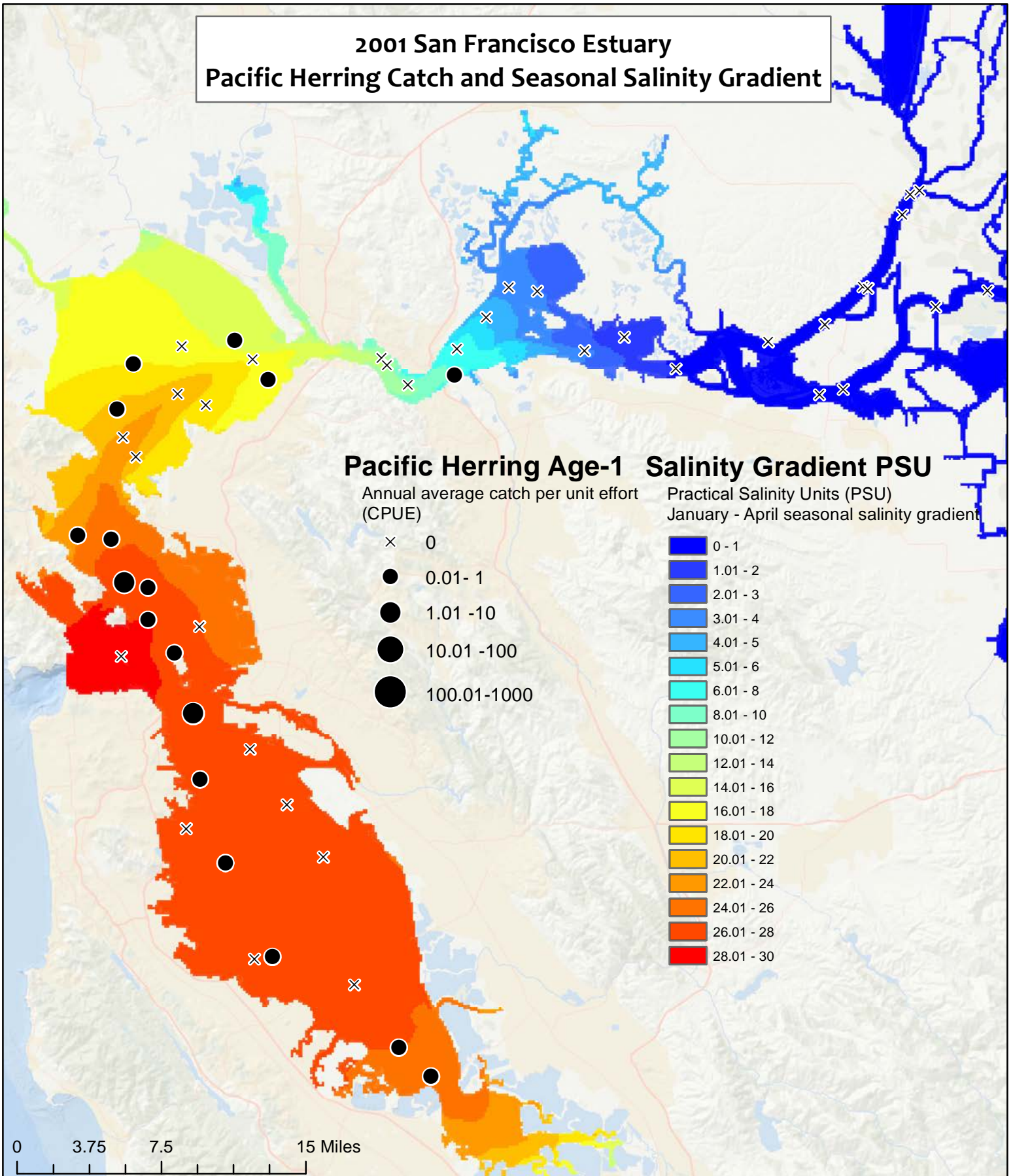
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2001 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

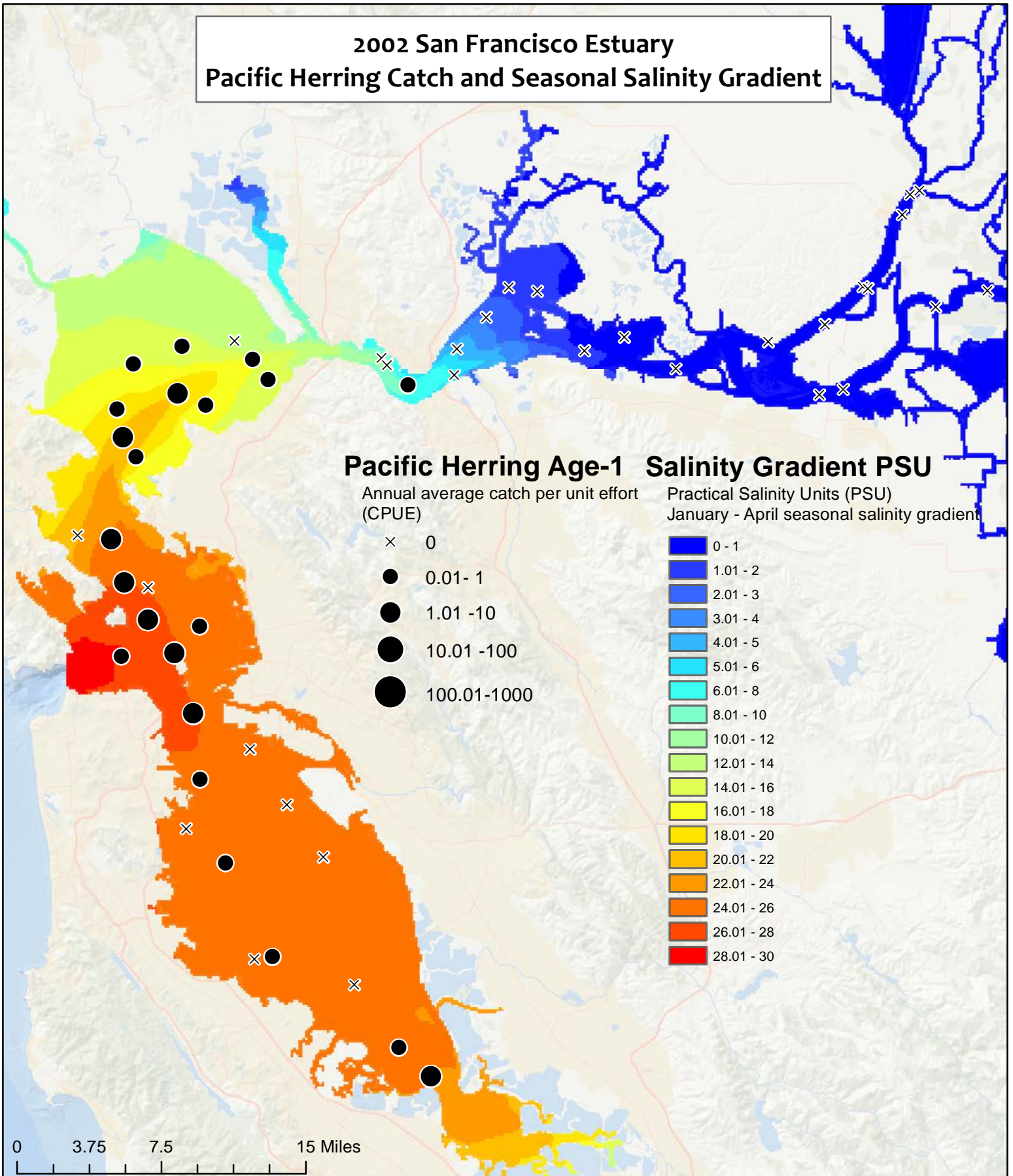
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Data sources

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



2002 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

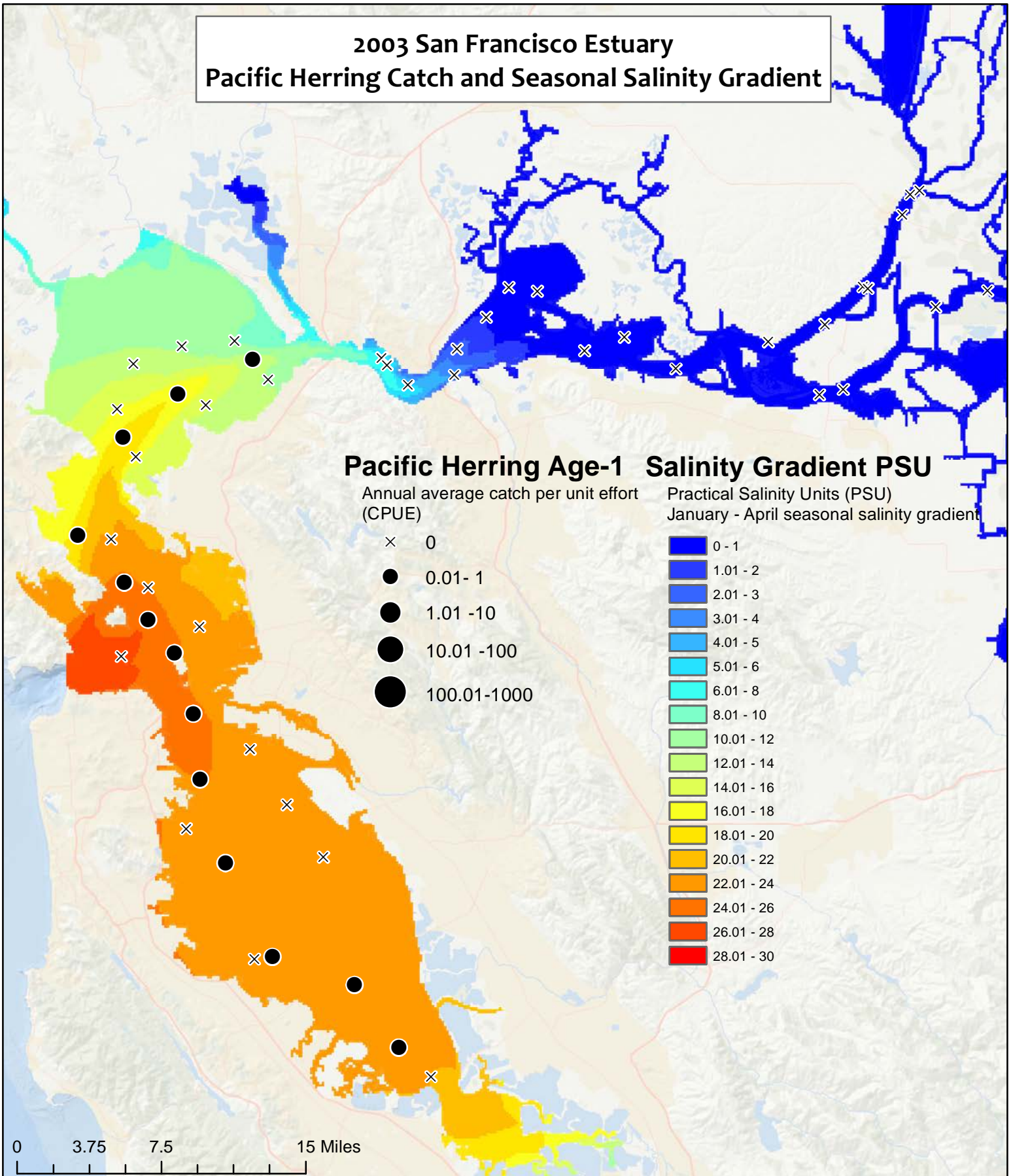
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2003 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

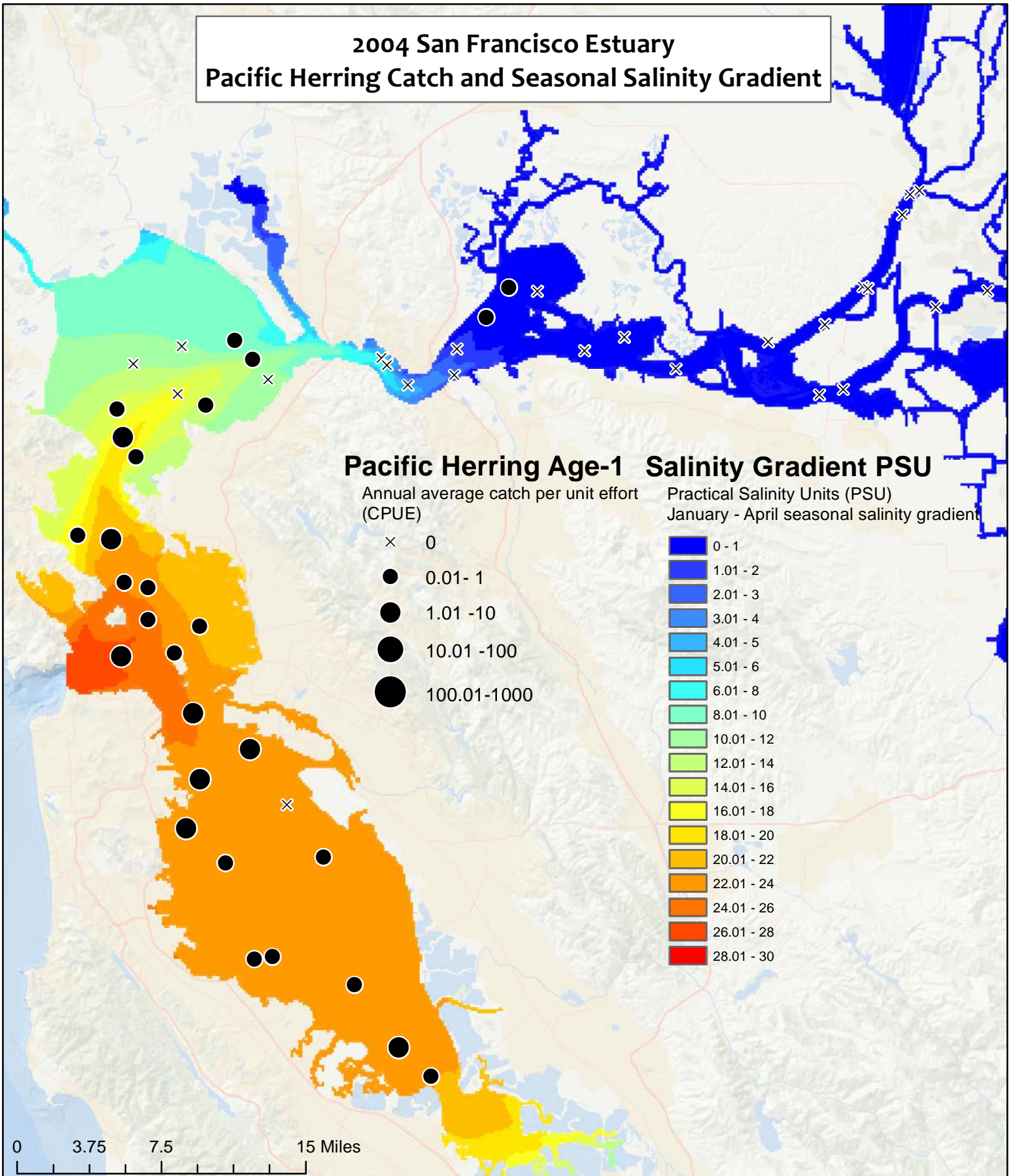
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2004 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

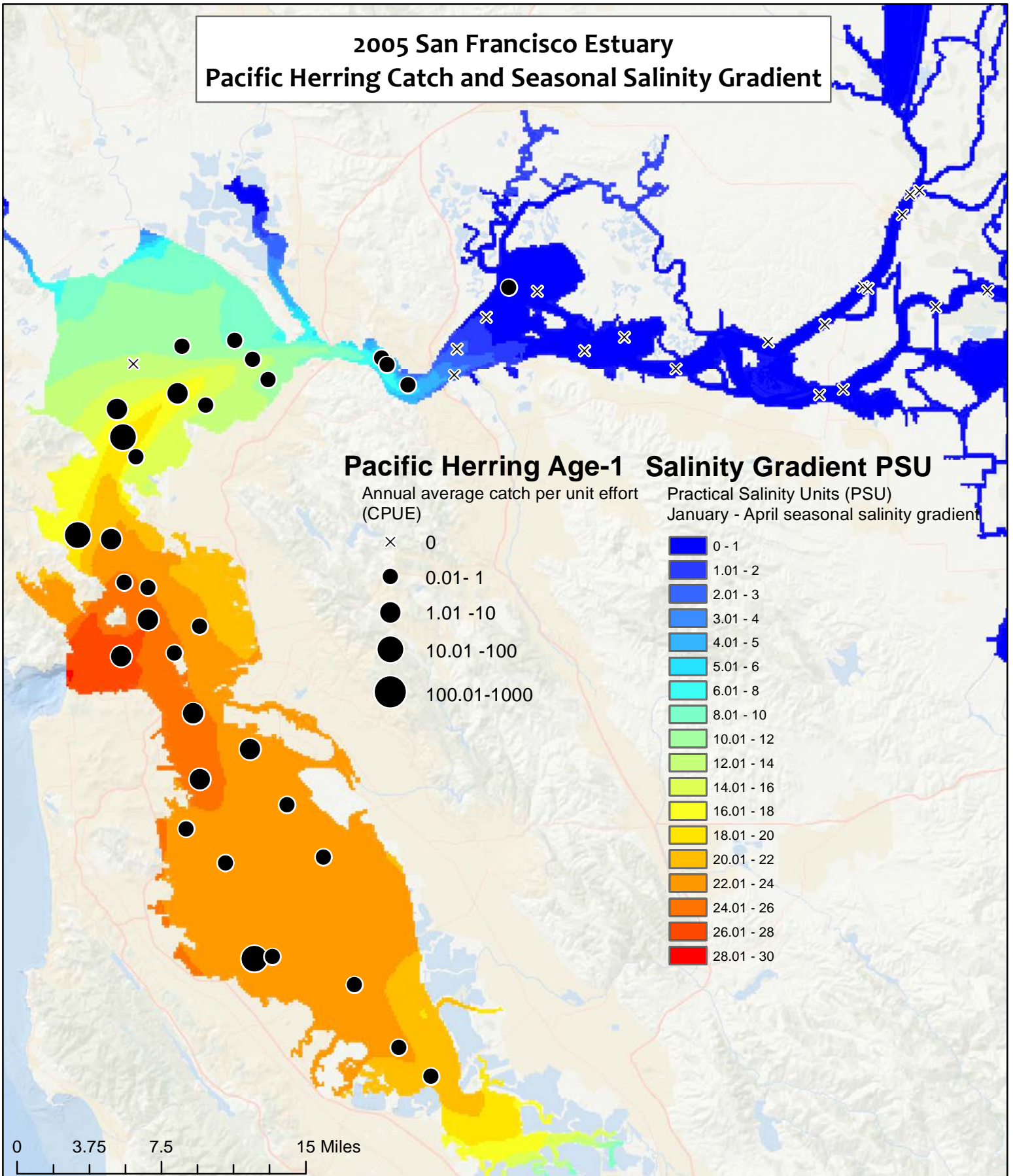
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 Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
 Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



2005 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring 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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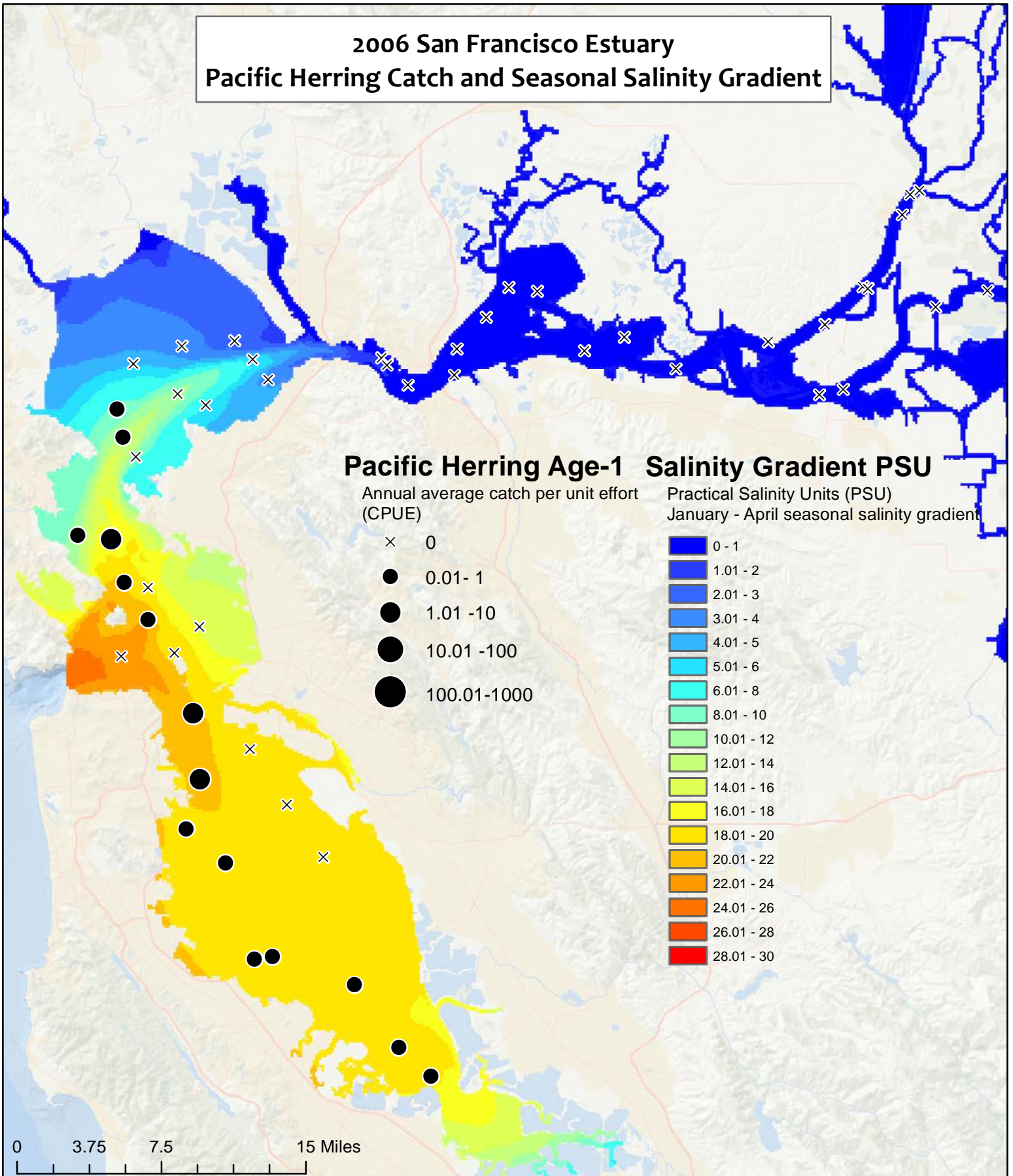
E. Foresman 7/13/2015

Data sources

Fish CPUE - San Francisco Bay Study CA Department of Fish and Wildlife and the Interagency Ecological Program
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 Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



2006 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

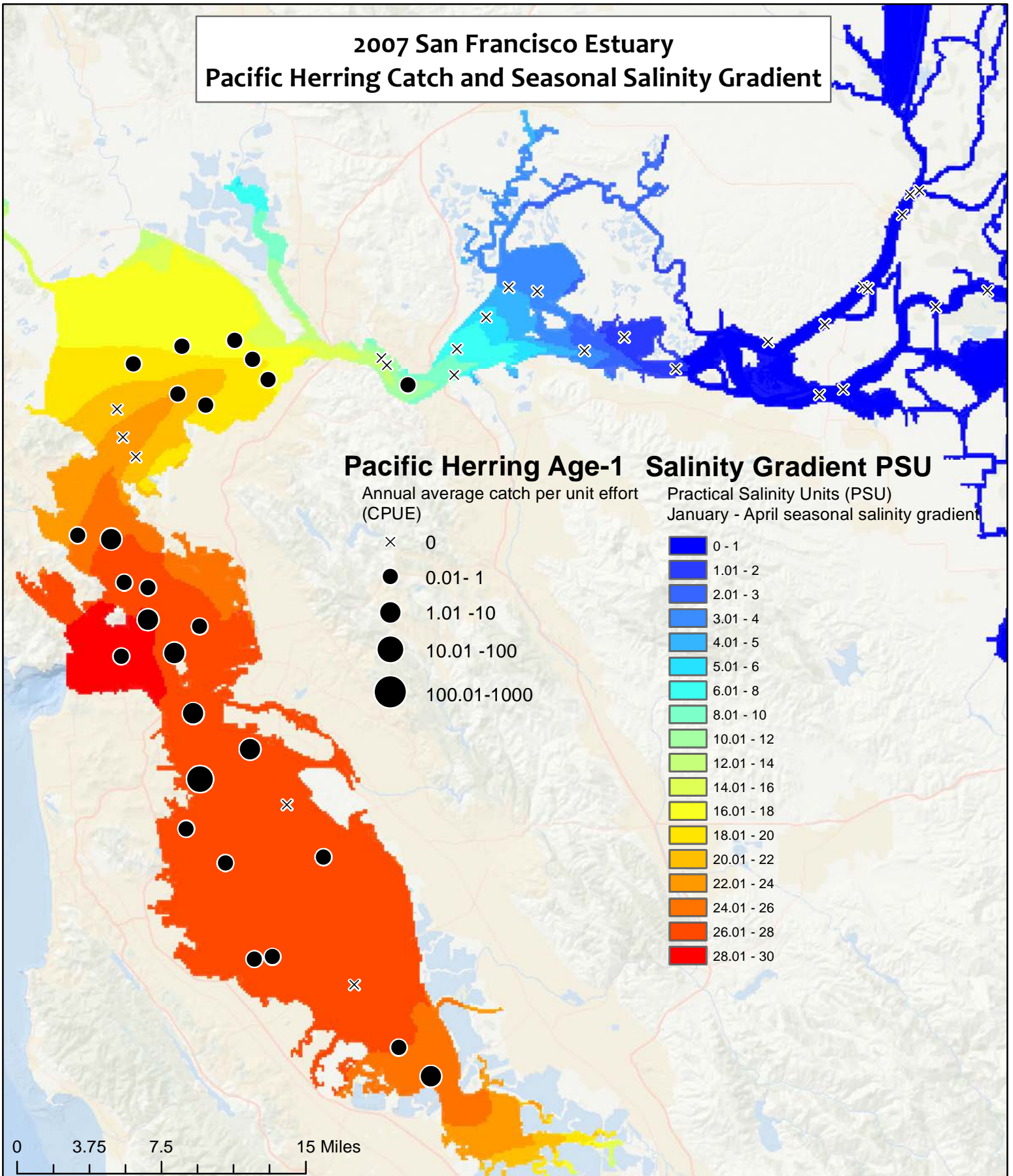
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 Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



2007 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

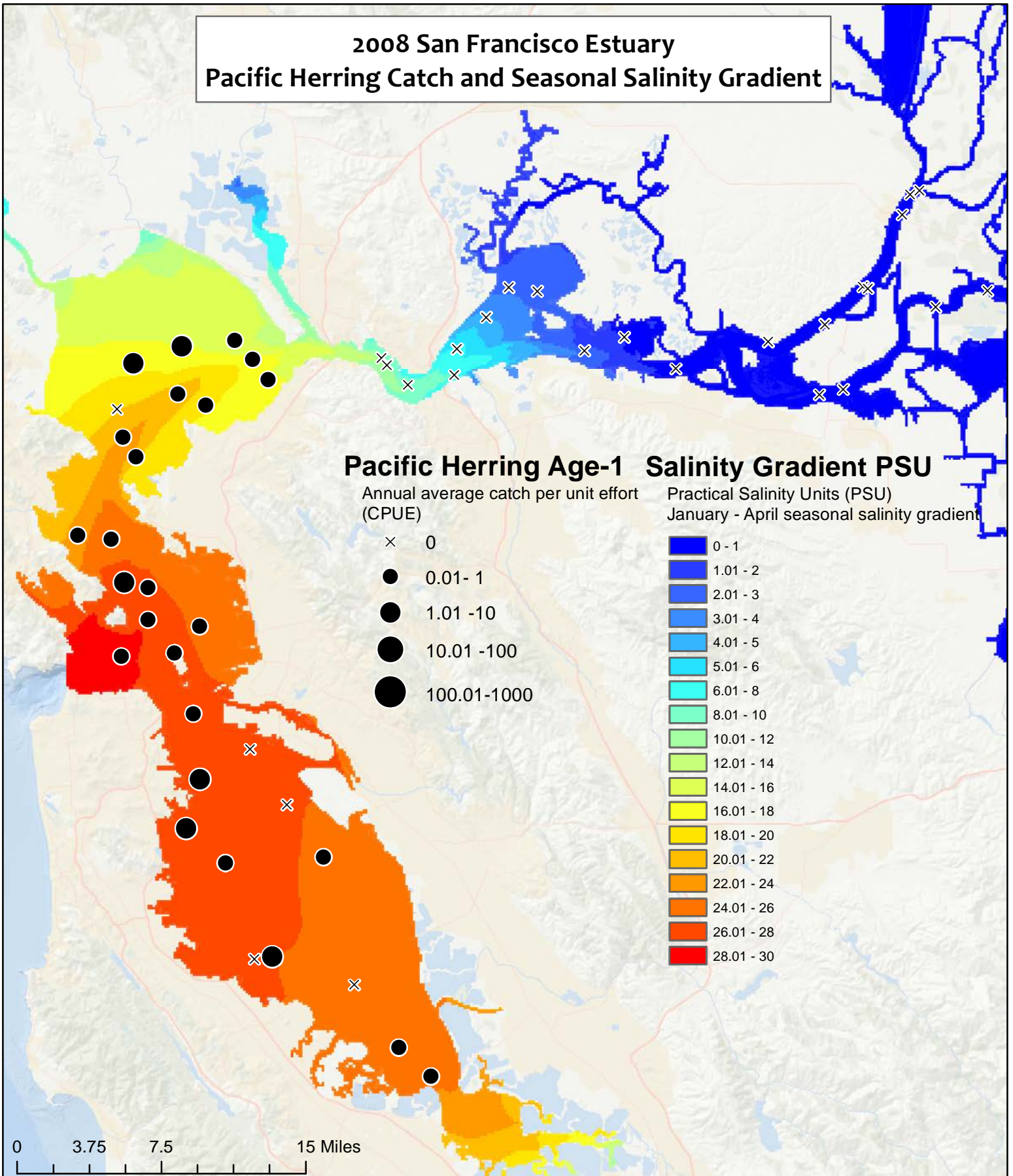
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 Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



2008 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring 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.

WTR1502244.4

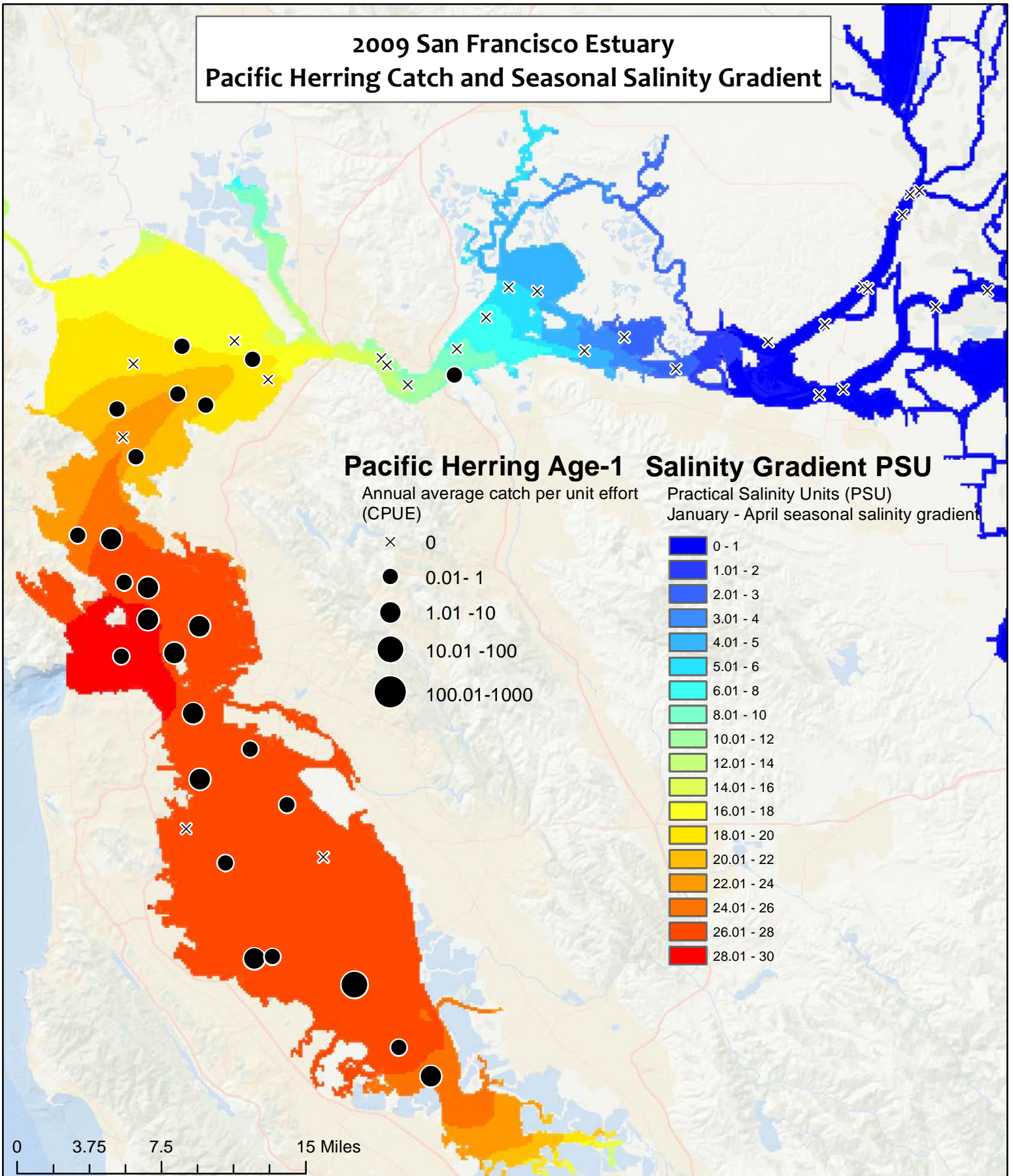
E. Foresman 7/13/2015

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2009 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

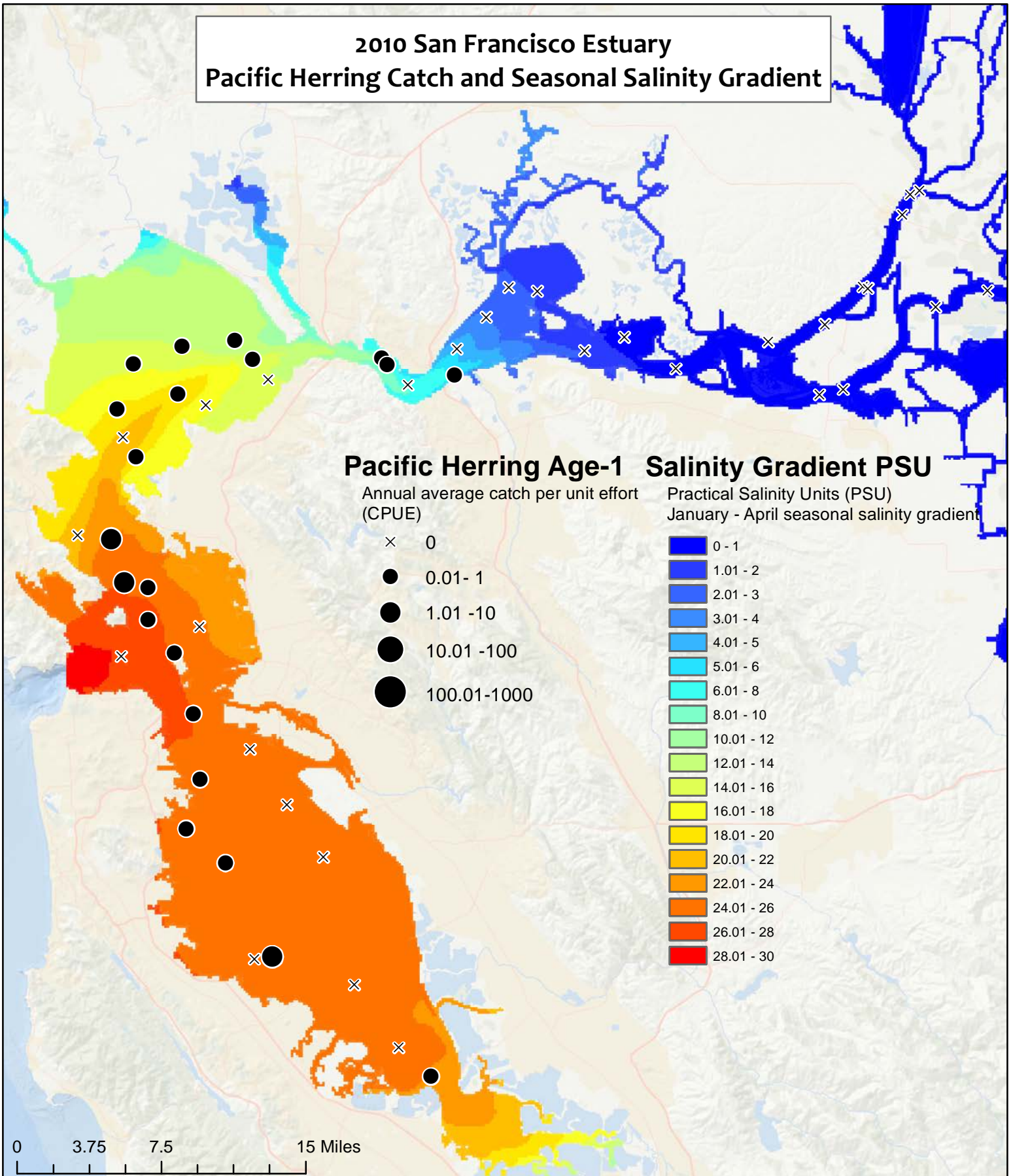
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 Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates
 Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



2010 San Francisco Estuary Pacific Herring Catch and Seasonal Salinity Gradient



About this map

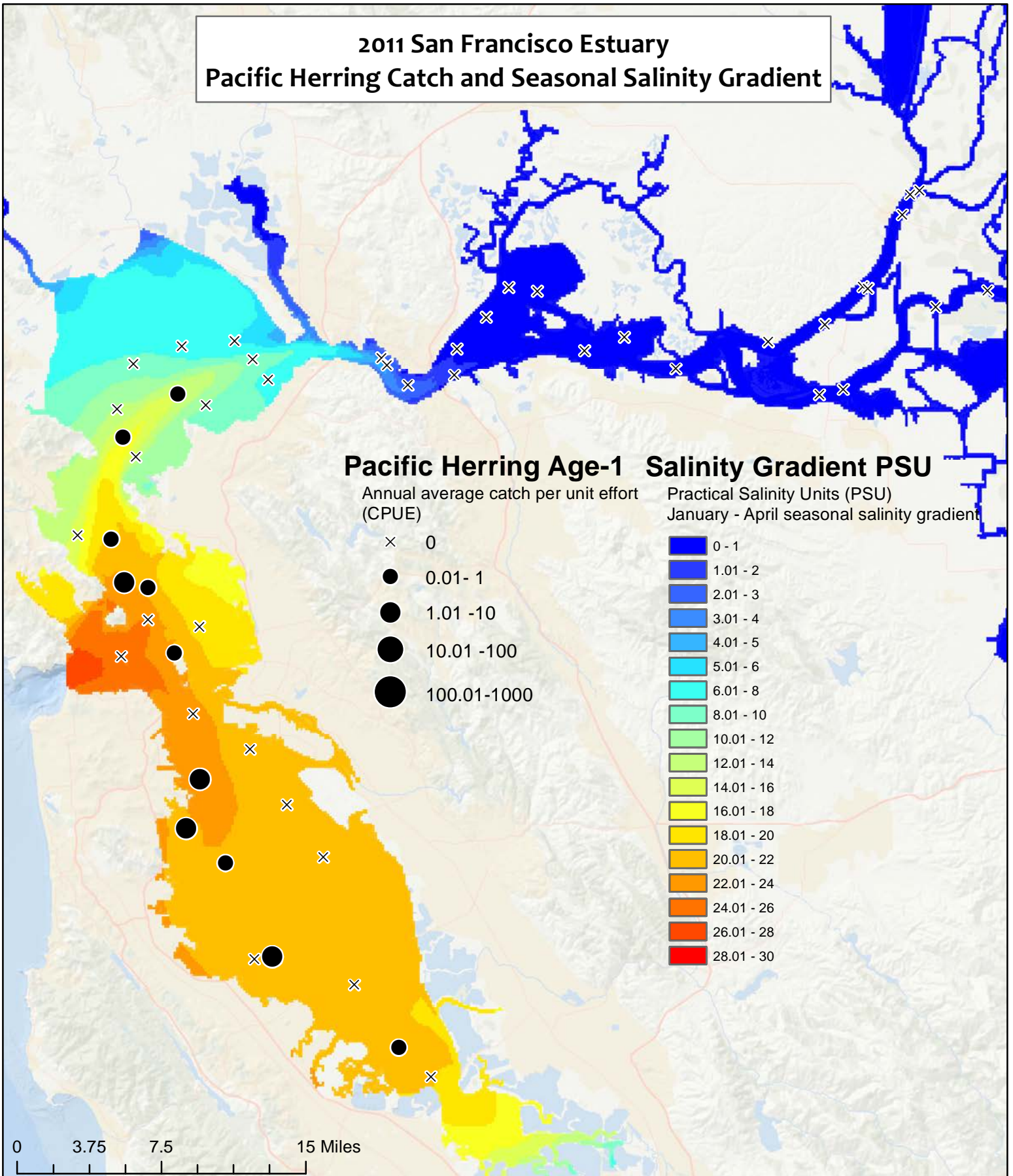
The January to April seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of age-1 pacific herring for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

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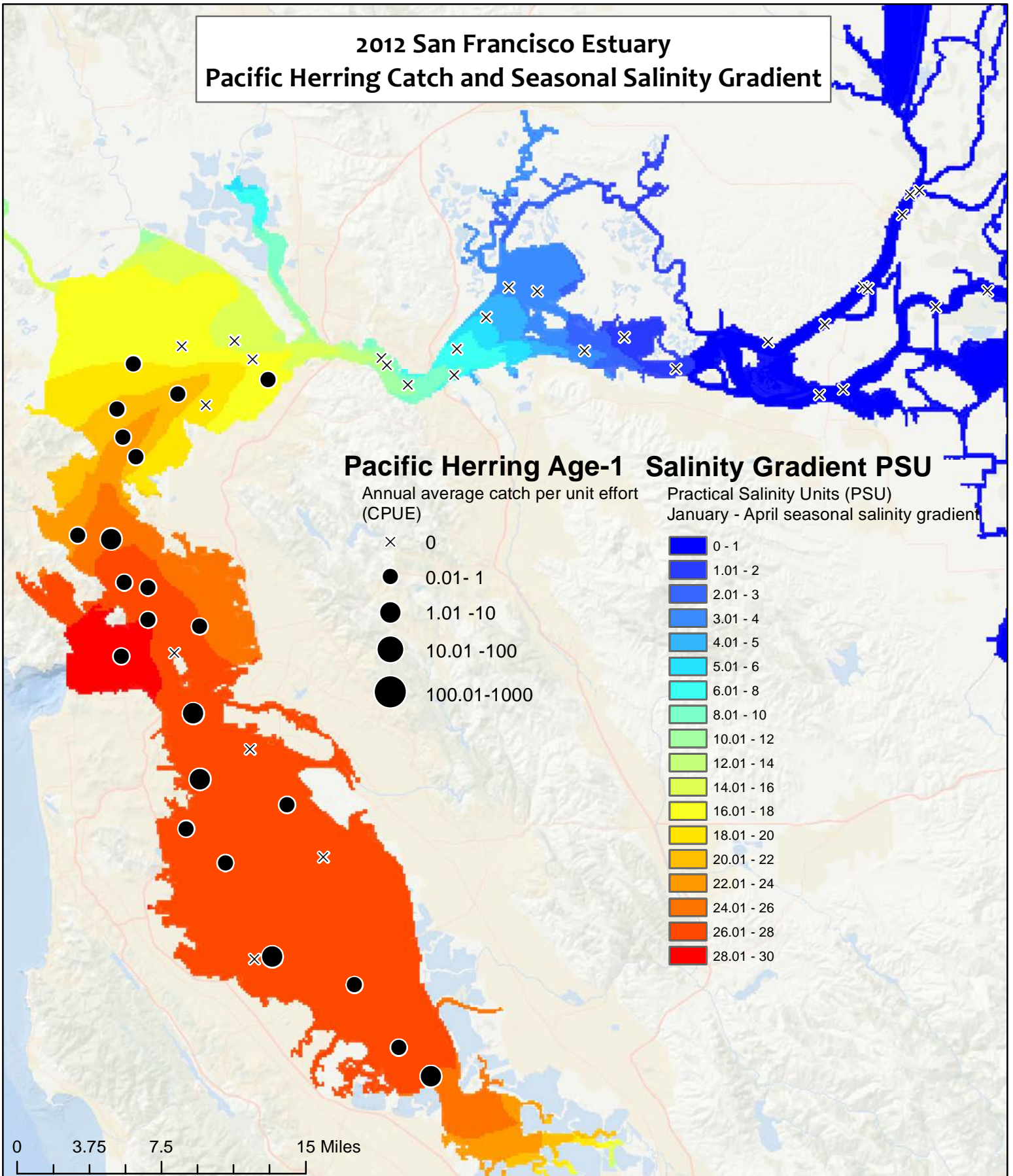
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WTR1502244.4

E. Foresman 7/13/2015

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