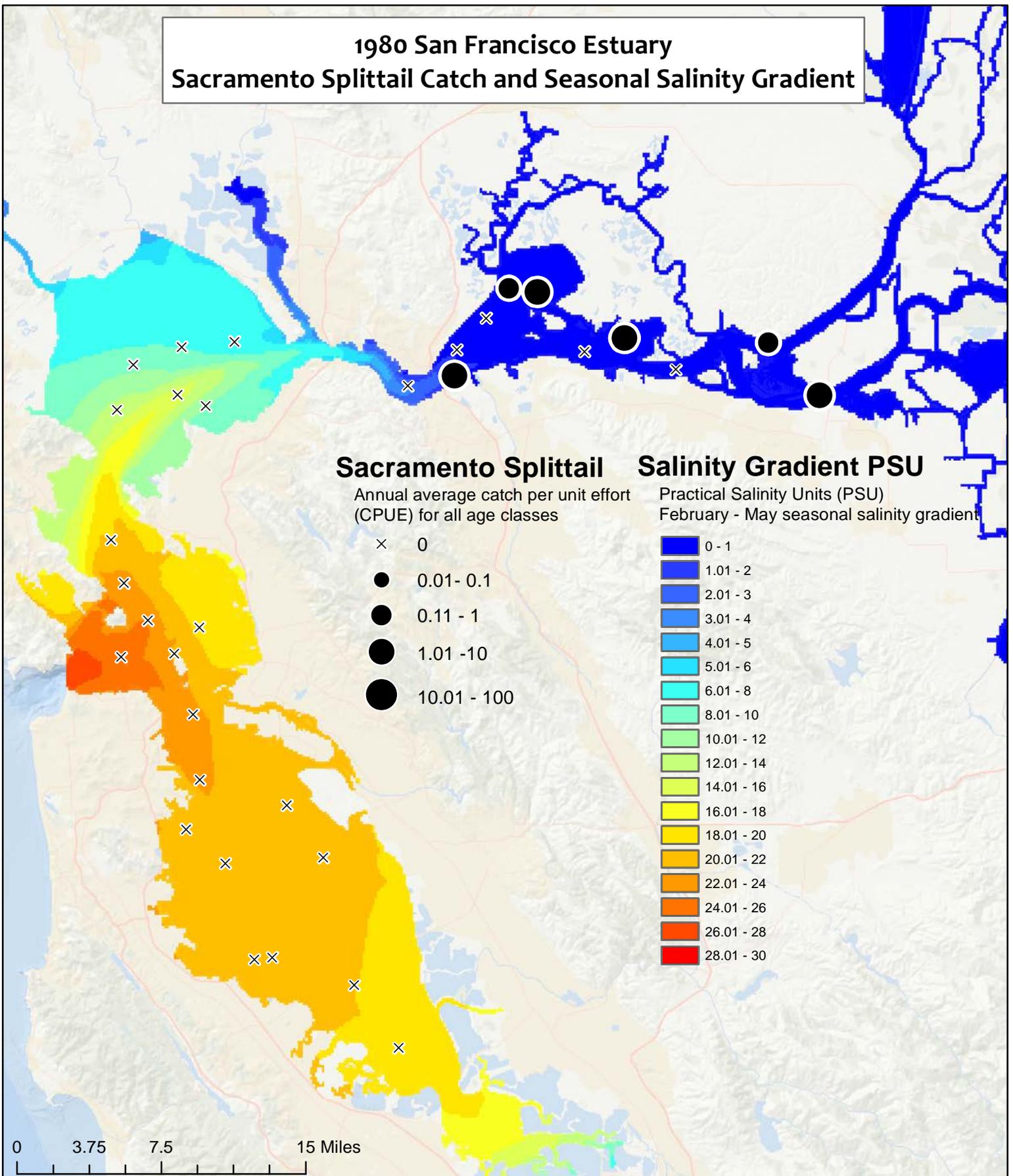


# 1980 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

The February to May seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of Sacramento splittail (total population) 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.

WTR1502244.5

E. Foresman 7/13/2015

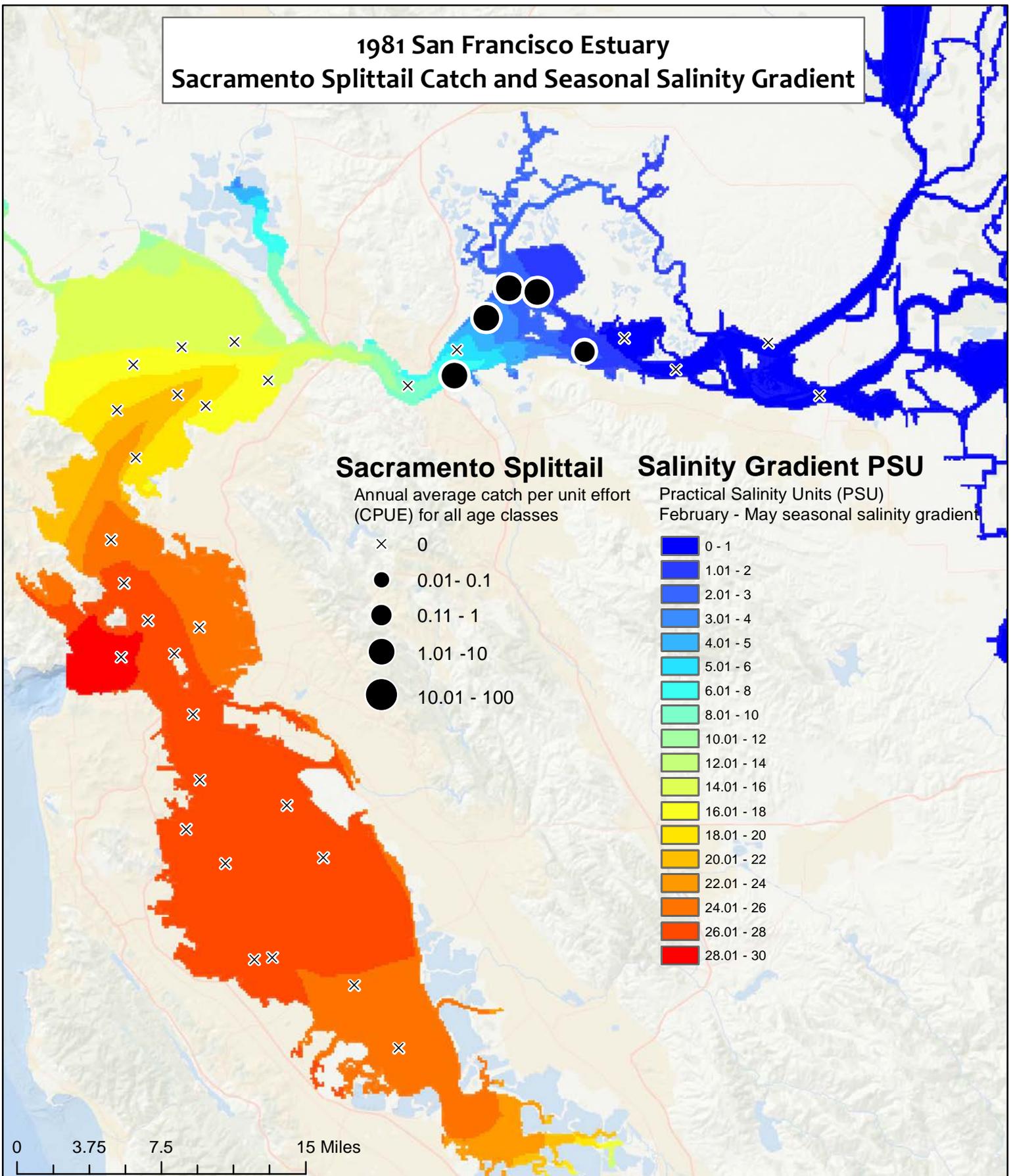
**Data sources**

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 Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

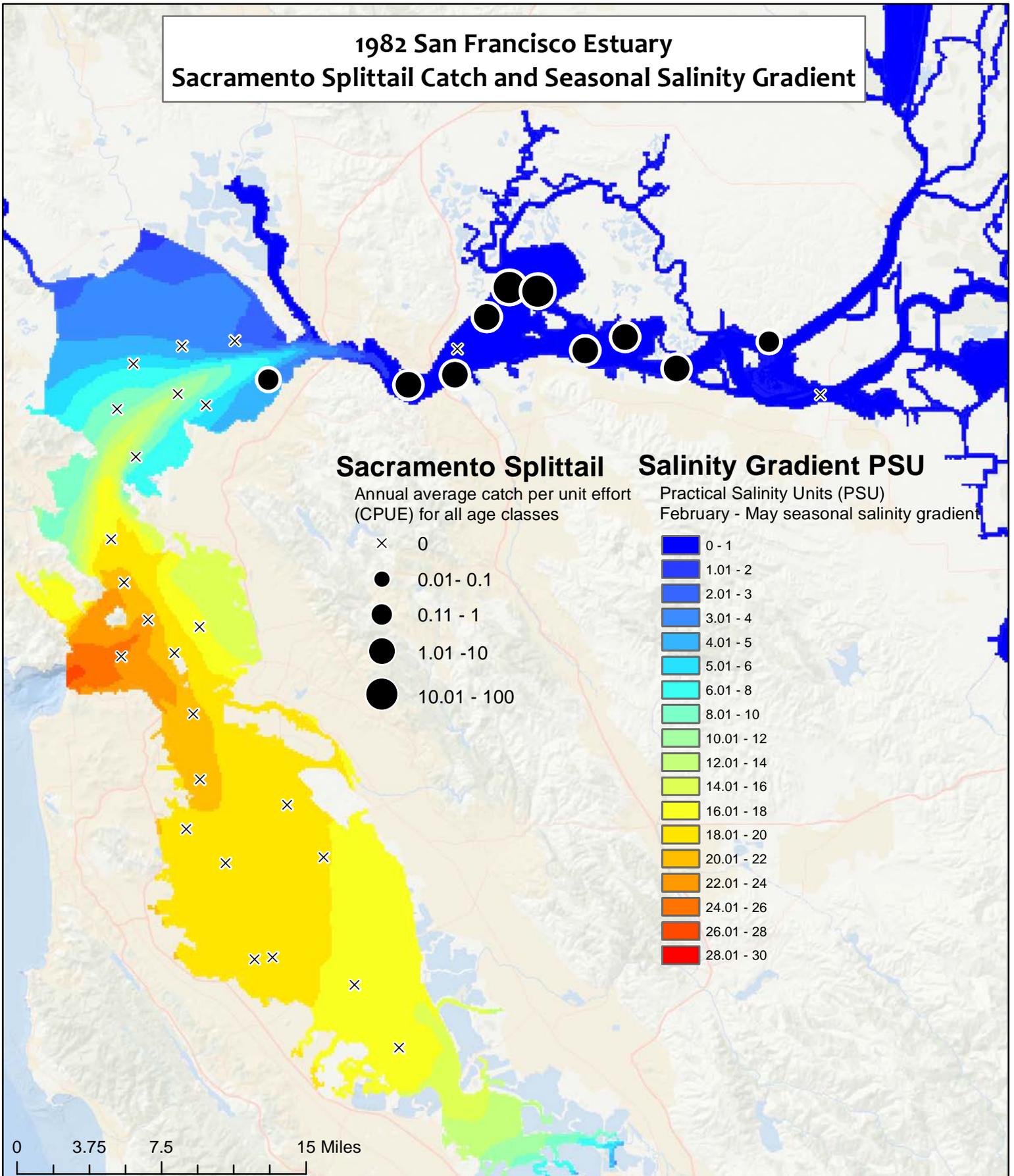
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**Data sources**

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 Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

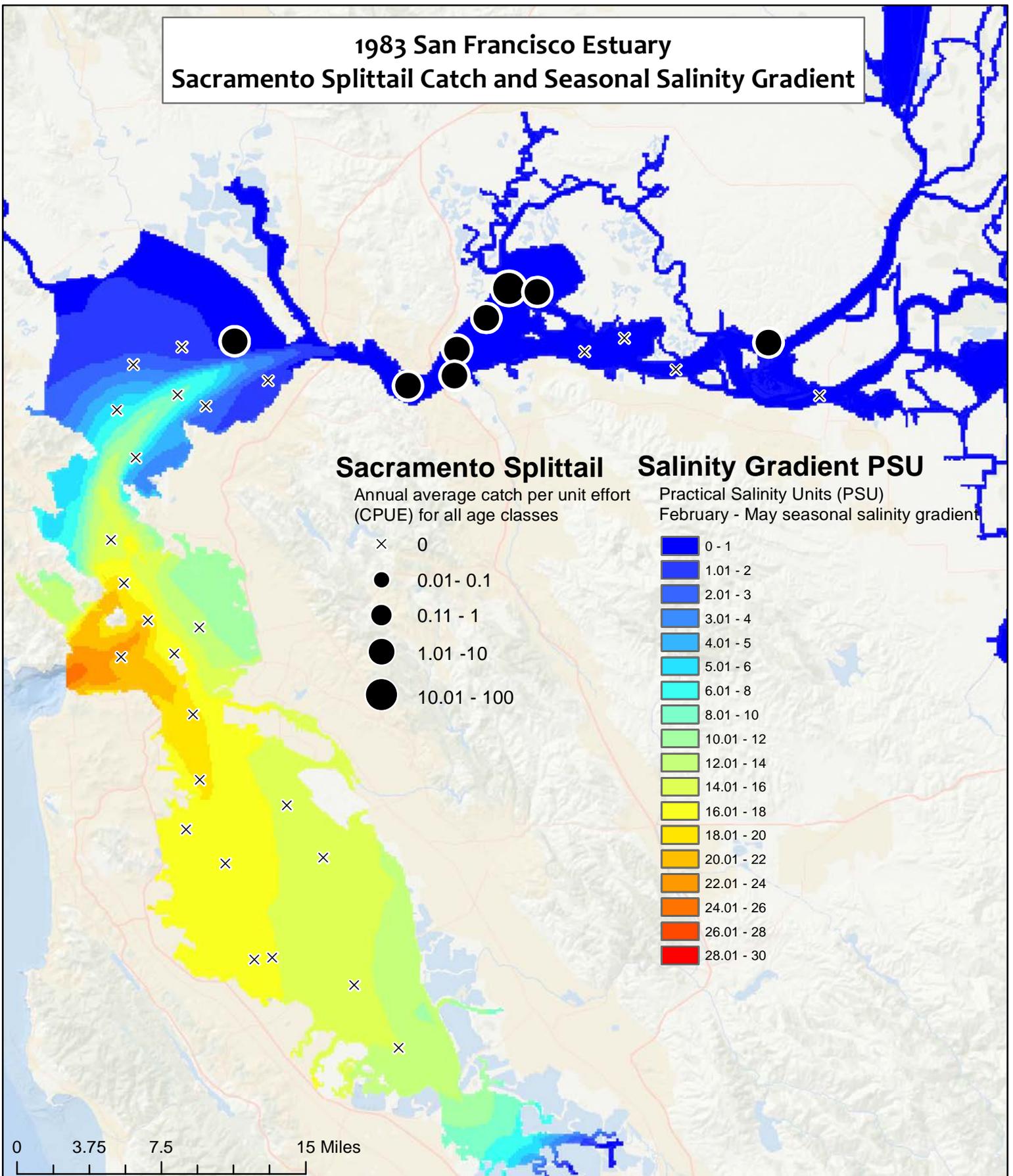
The February to May seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of Sacramento splittail (total population) for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), *Marine 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



# 1983 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

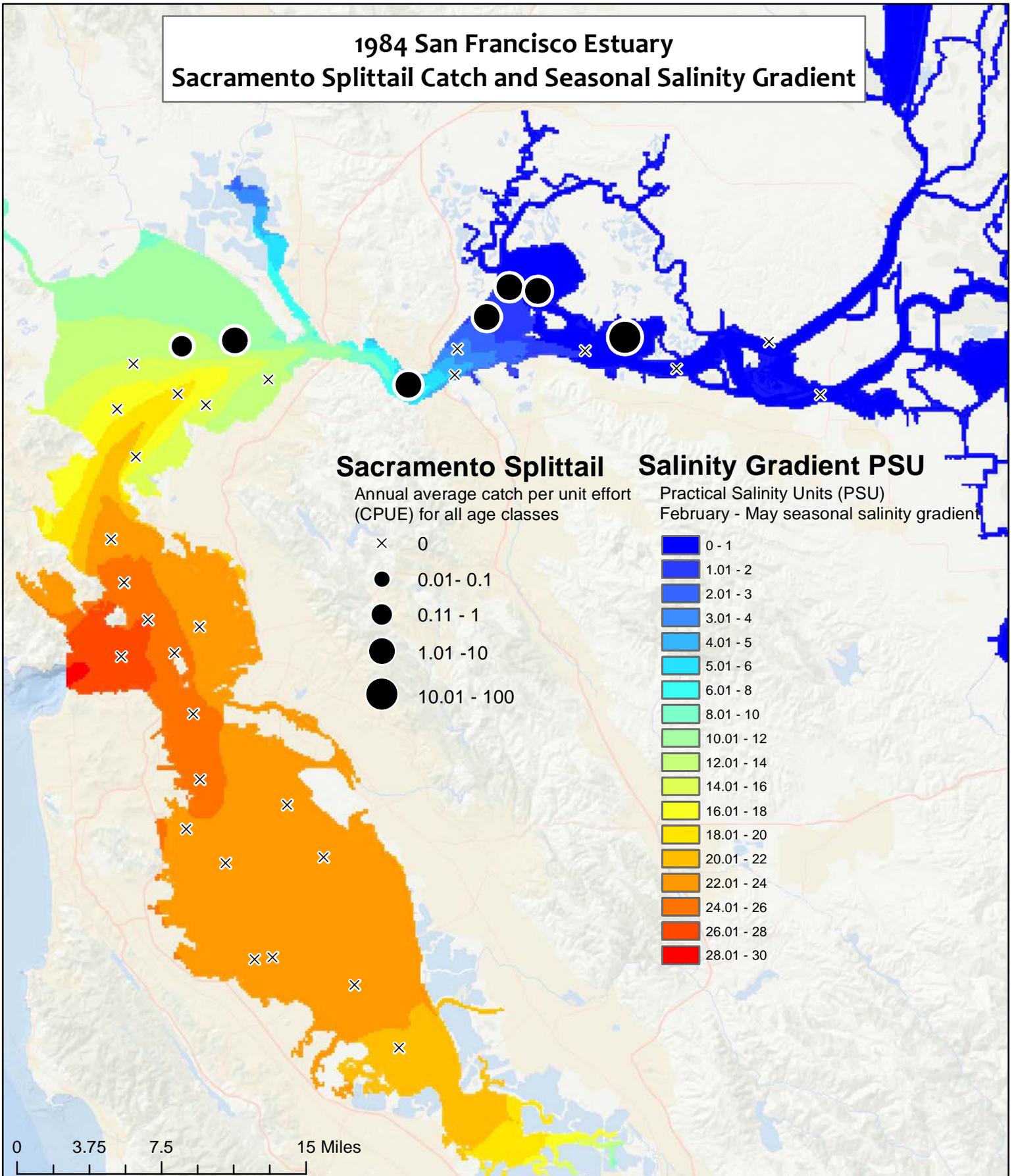
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**Data sources**

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



# 1984 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

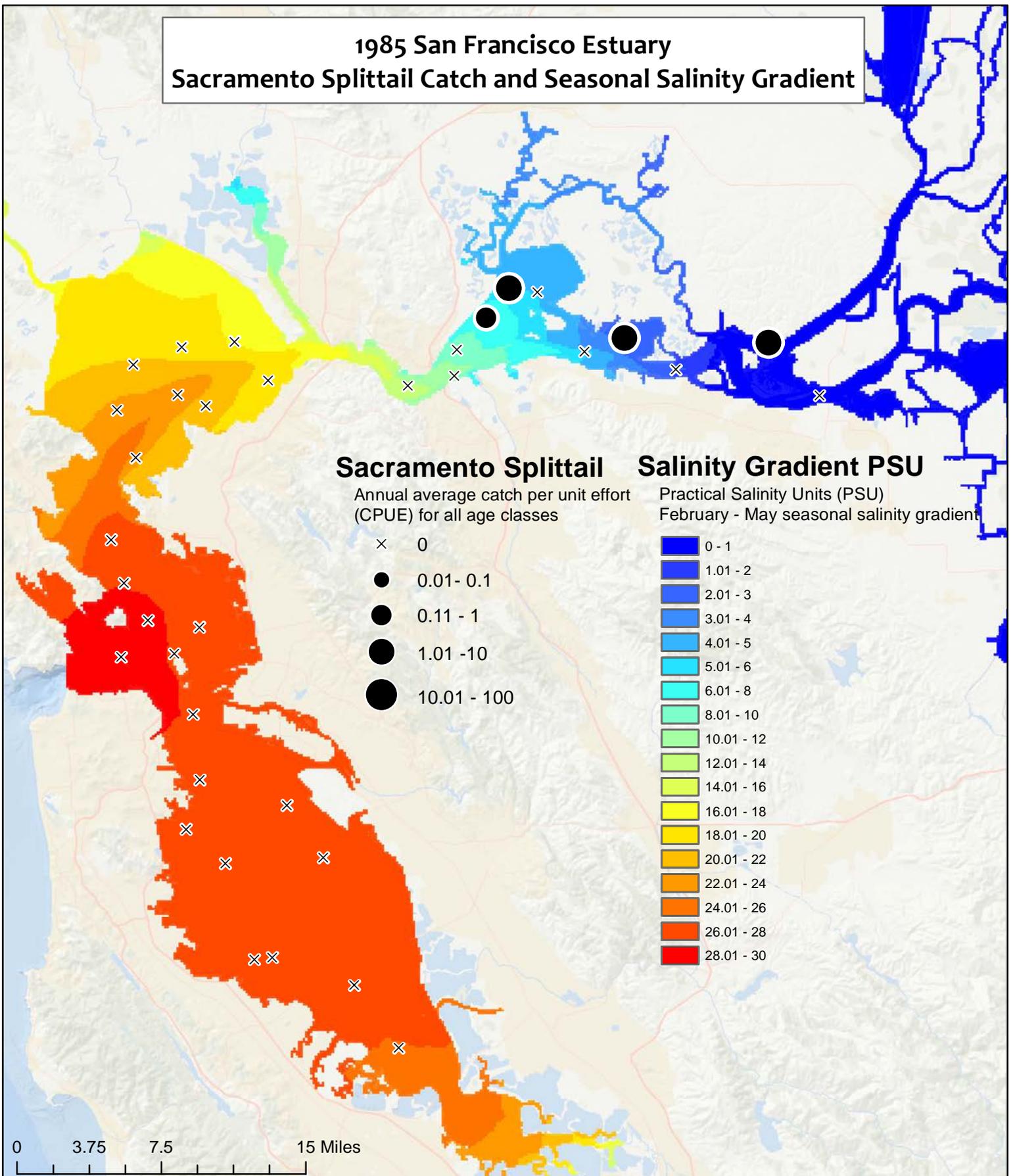
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Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



# 1985 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

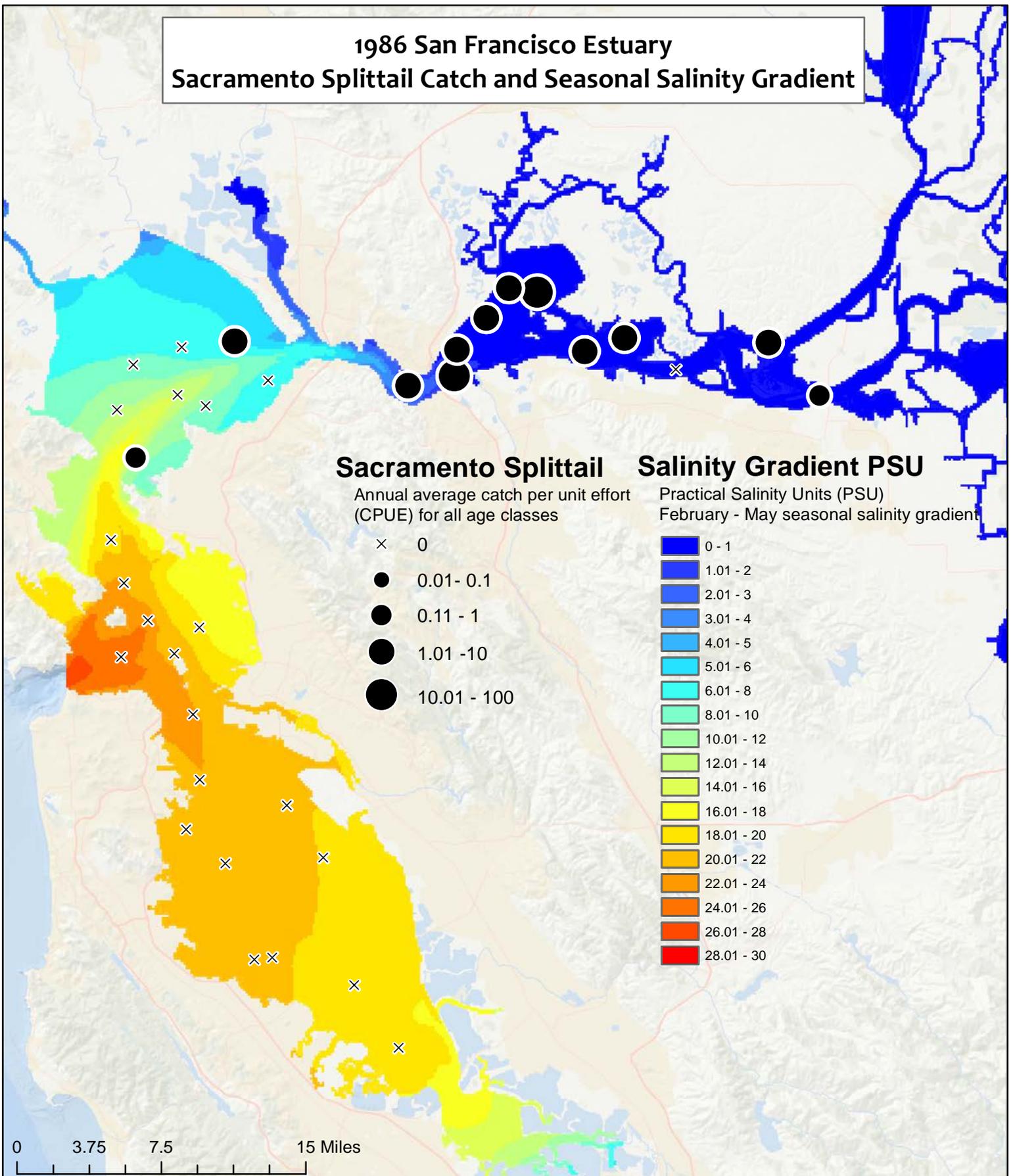
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**Data sources**

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



# 1986 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

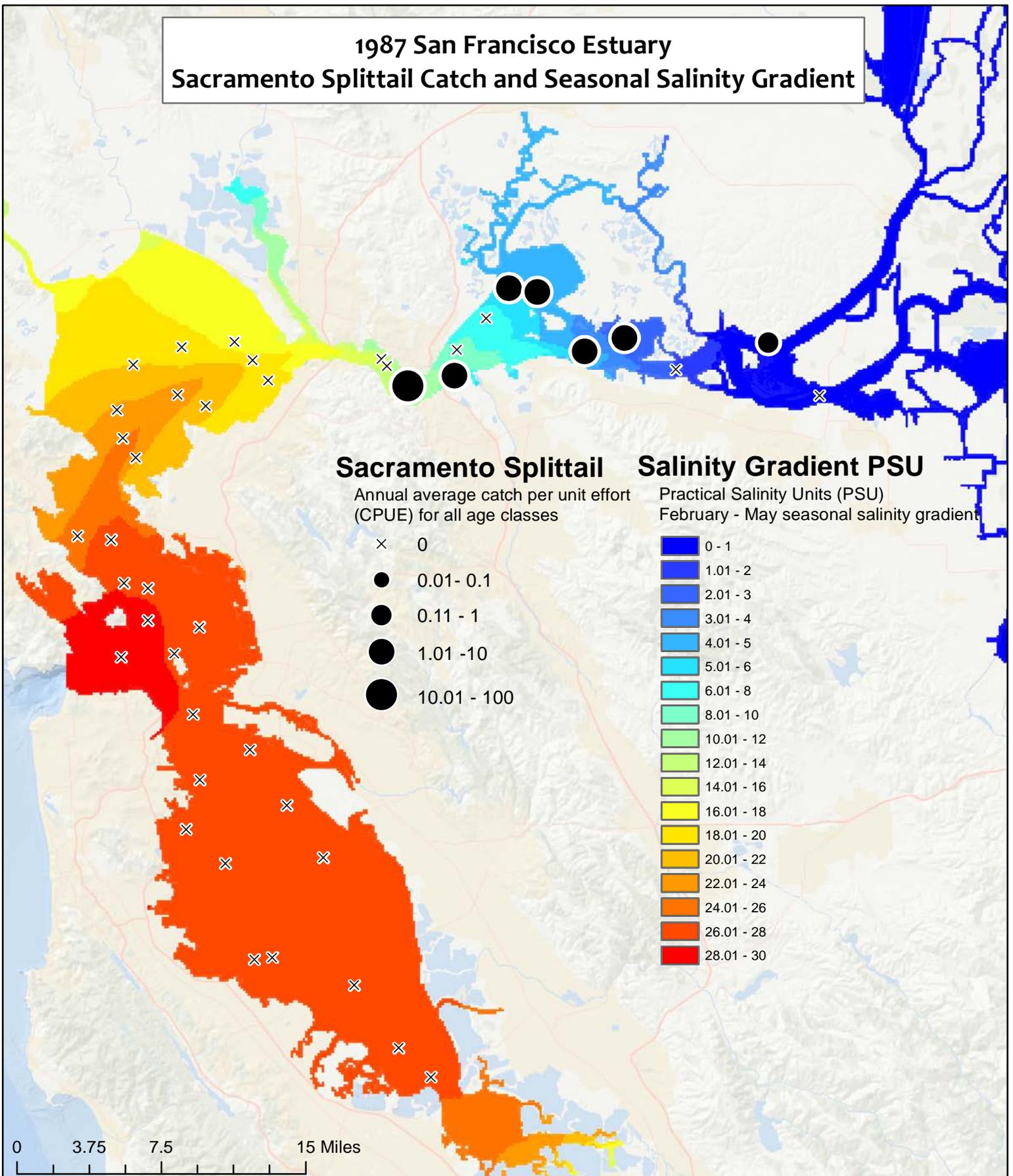
The February to May seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of Sacramento splittail (total population) for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), *Marine 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



# 1987 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

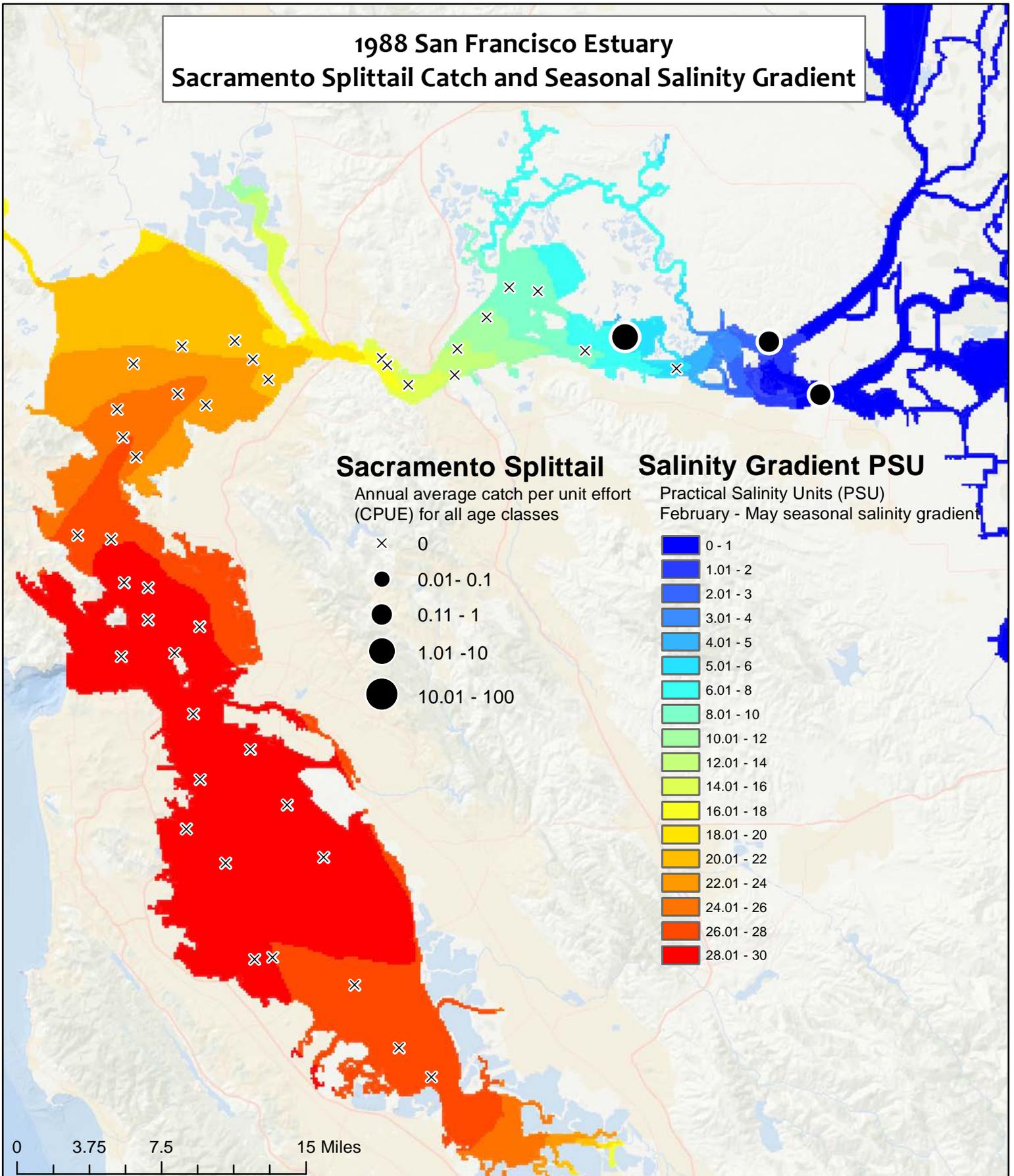
The February to May seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of Sacramento splittail (total population) for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

**Data sources**

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# 1988 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



## Sacramento Splittail

Annual average catch per unit effort (CPUE) for all age classes

- × 0
- 0.01 - 0.1
- 0.11 - 1
- 1.01 - 10
- 10.01 - 100

## Salinity Gradient PSU

Practical Salinity Units (PSU)  
February - May 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

### About this map

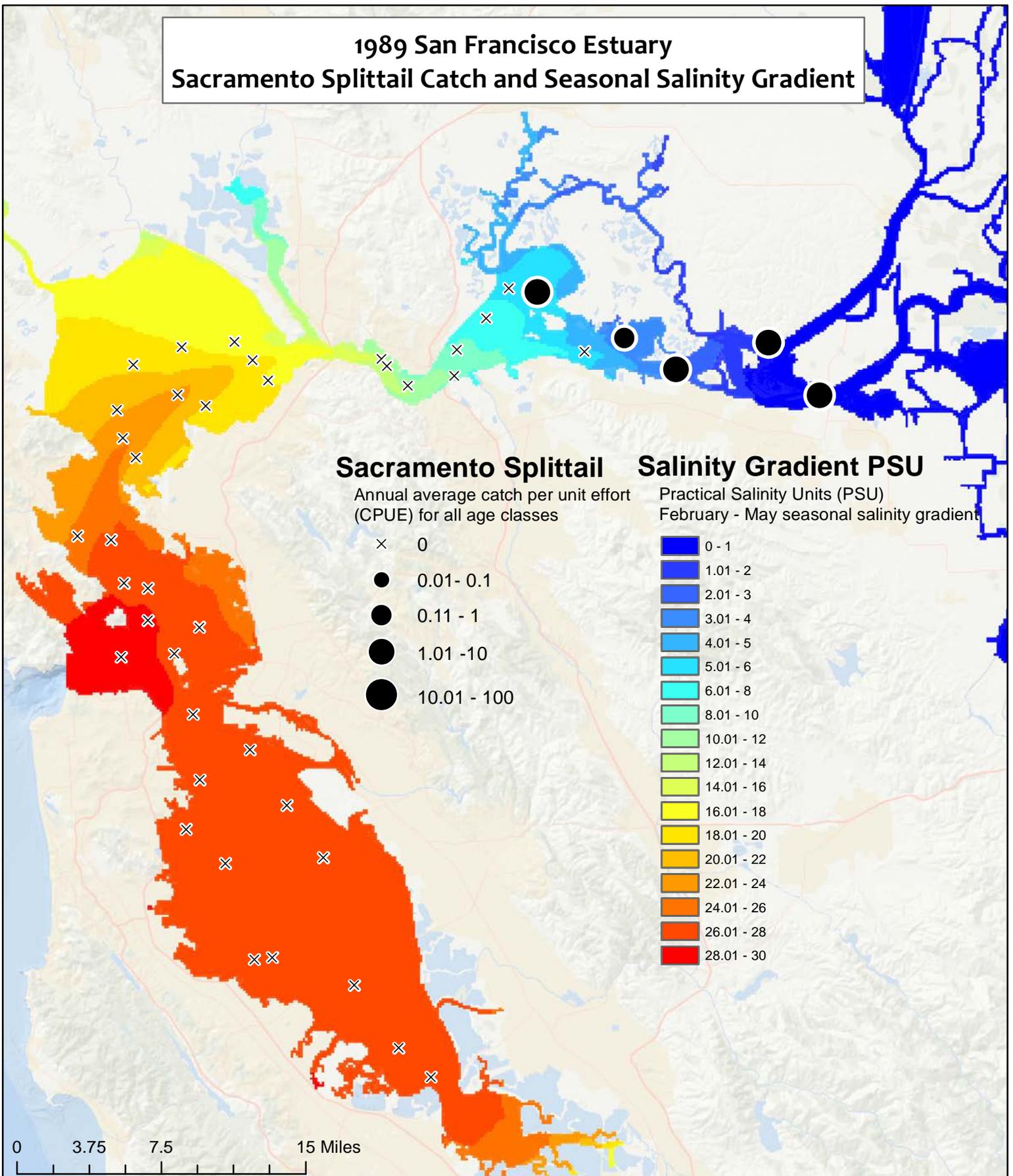
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### Data sources

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# 1989 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

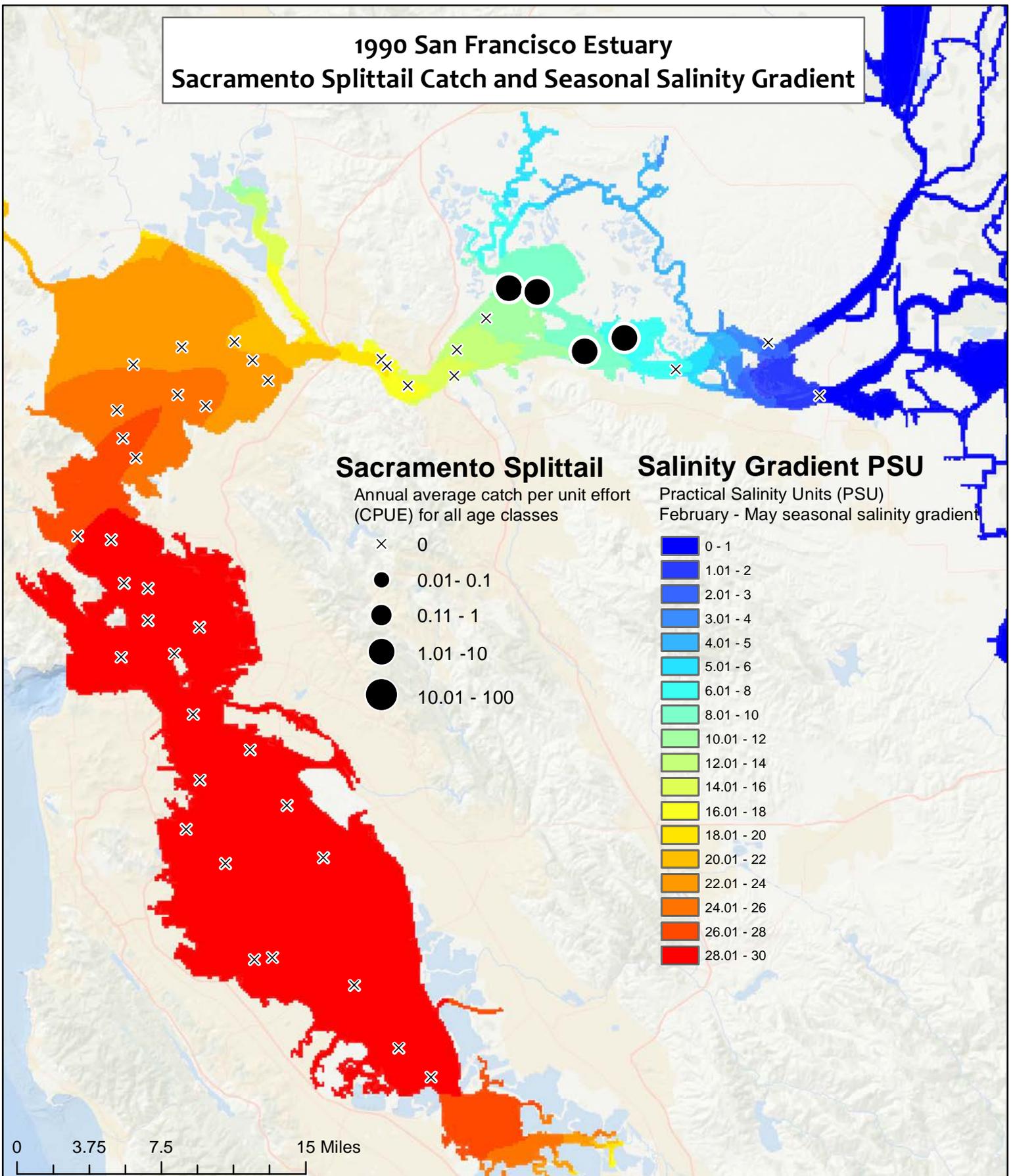
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# 1990 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

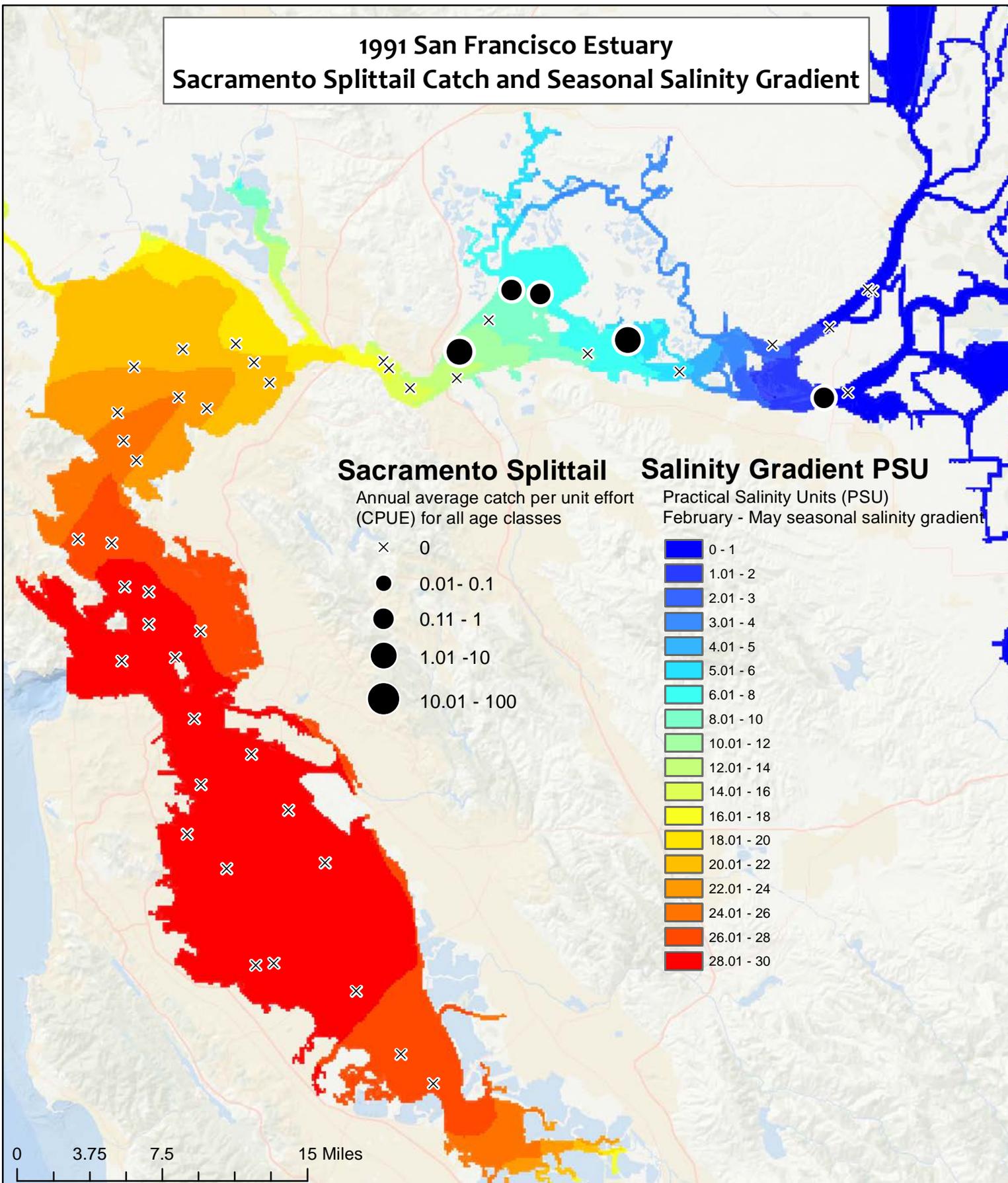
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# 1991 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

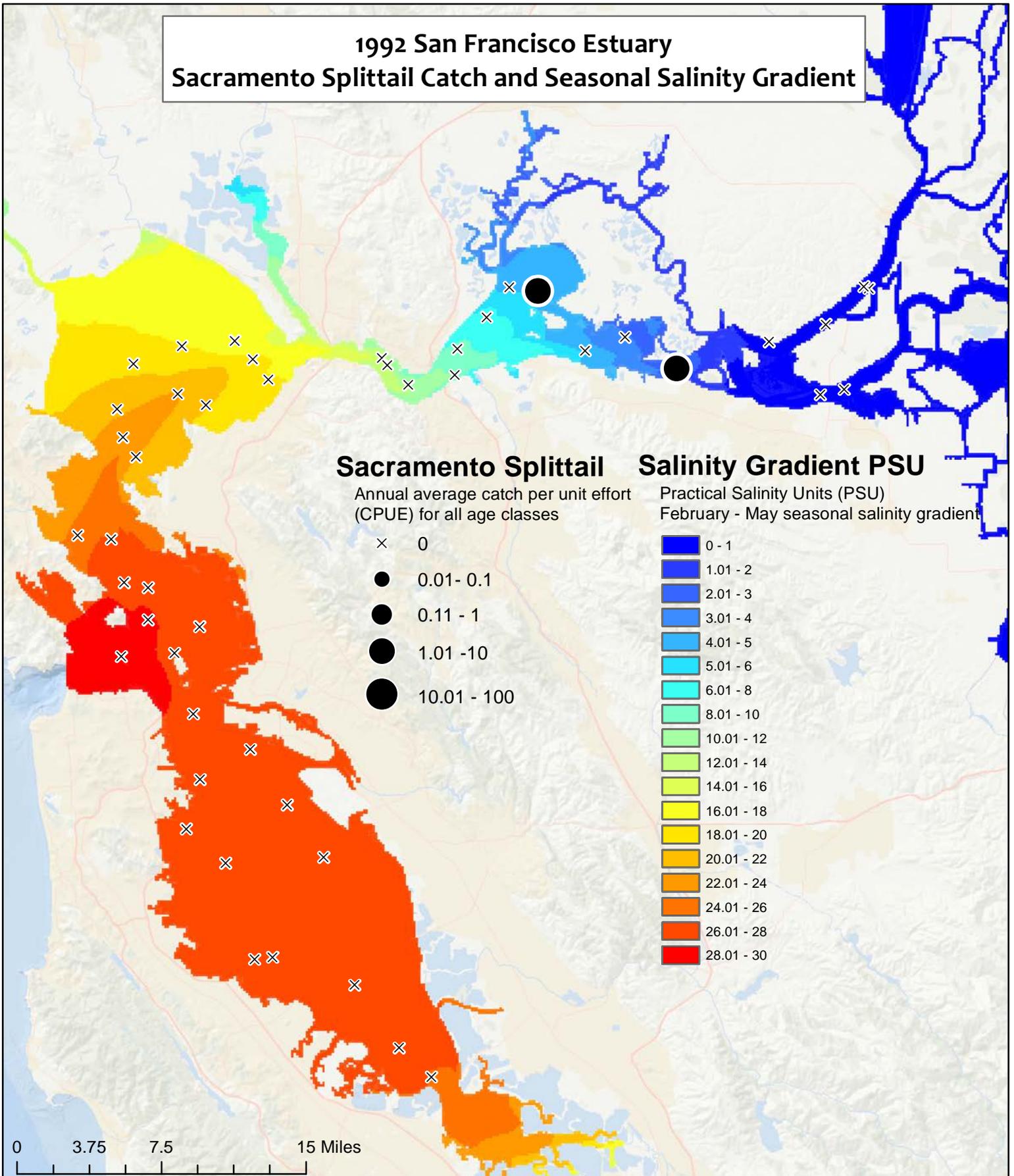
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# 1992 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

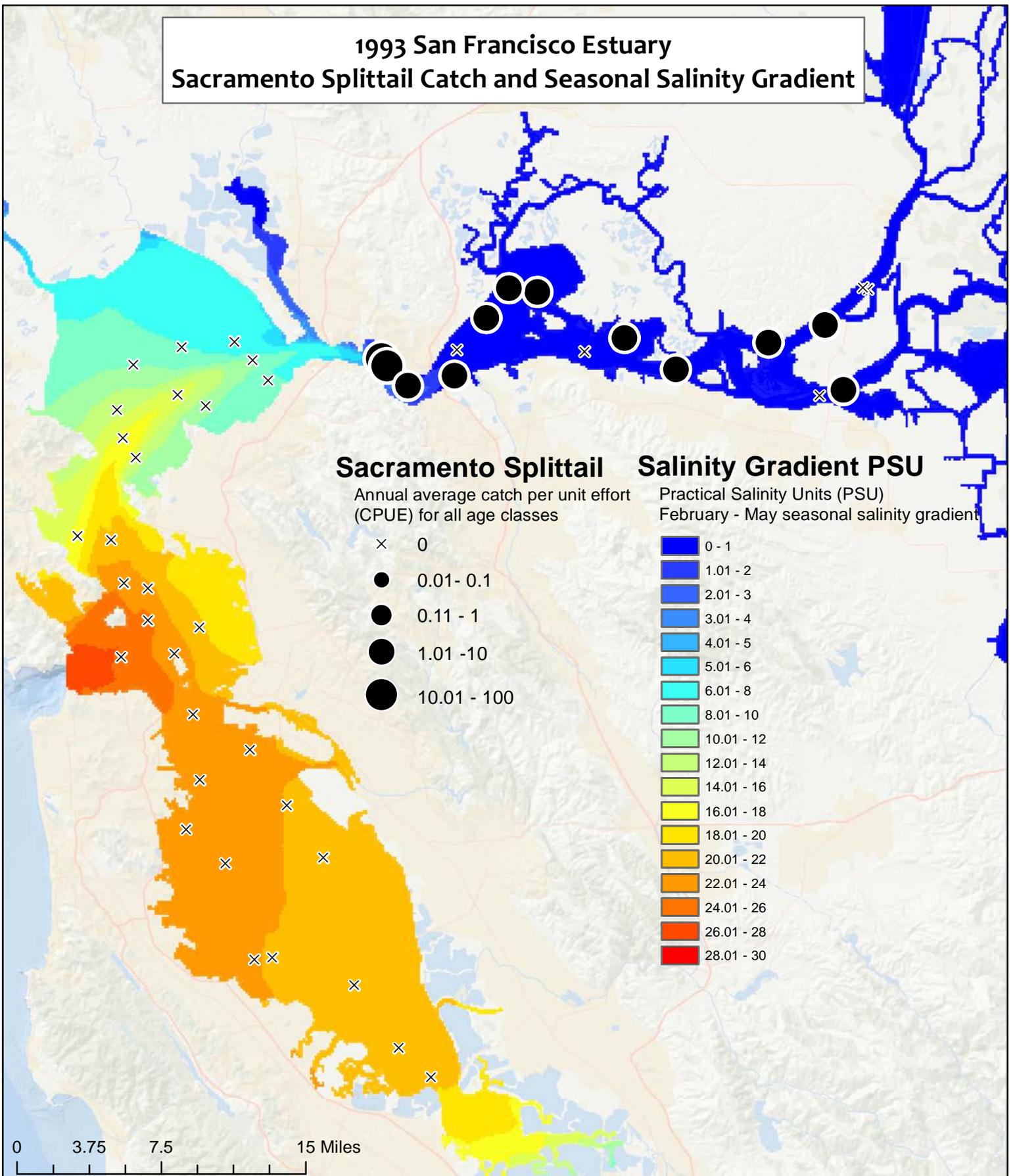
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# 1993 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

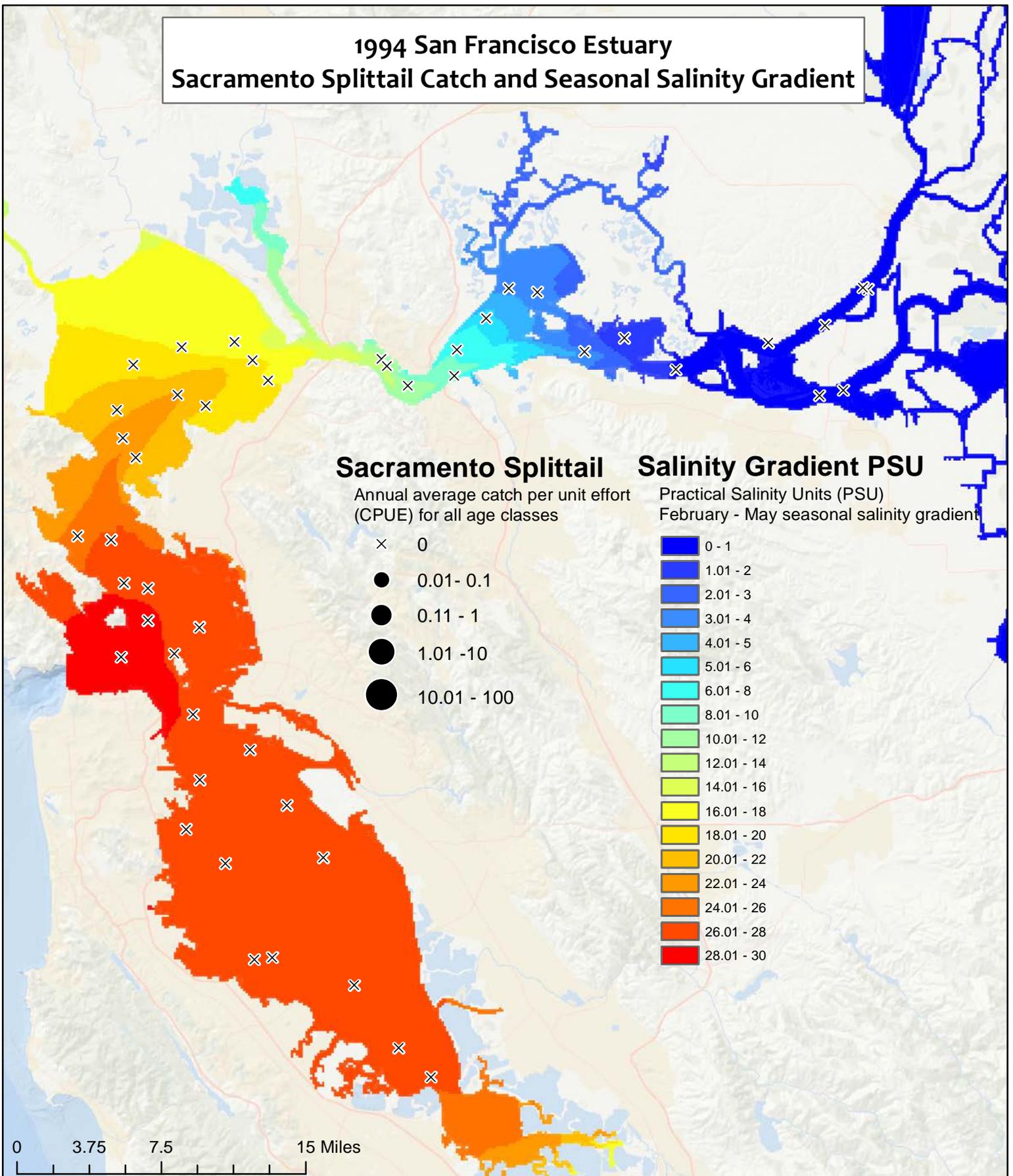
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# 1994 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

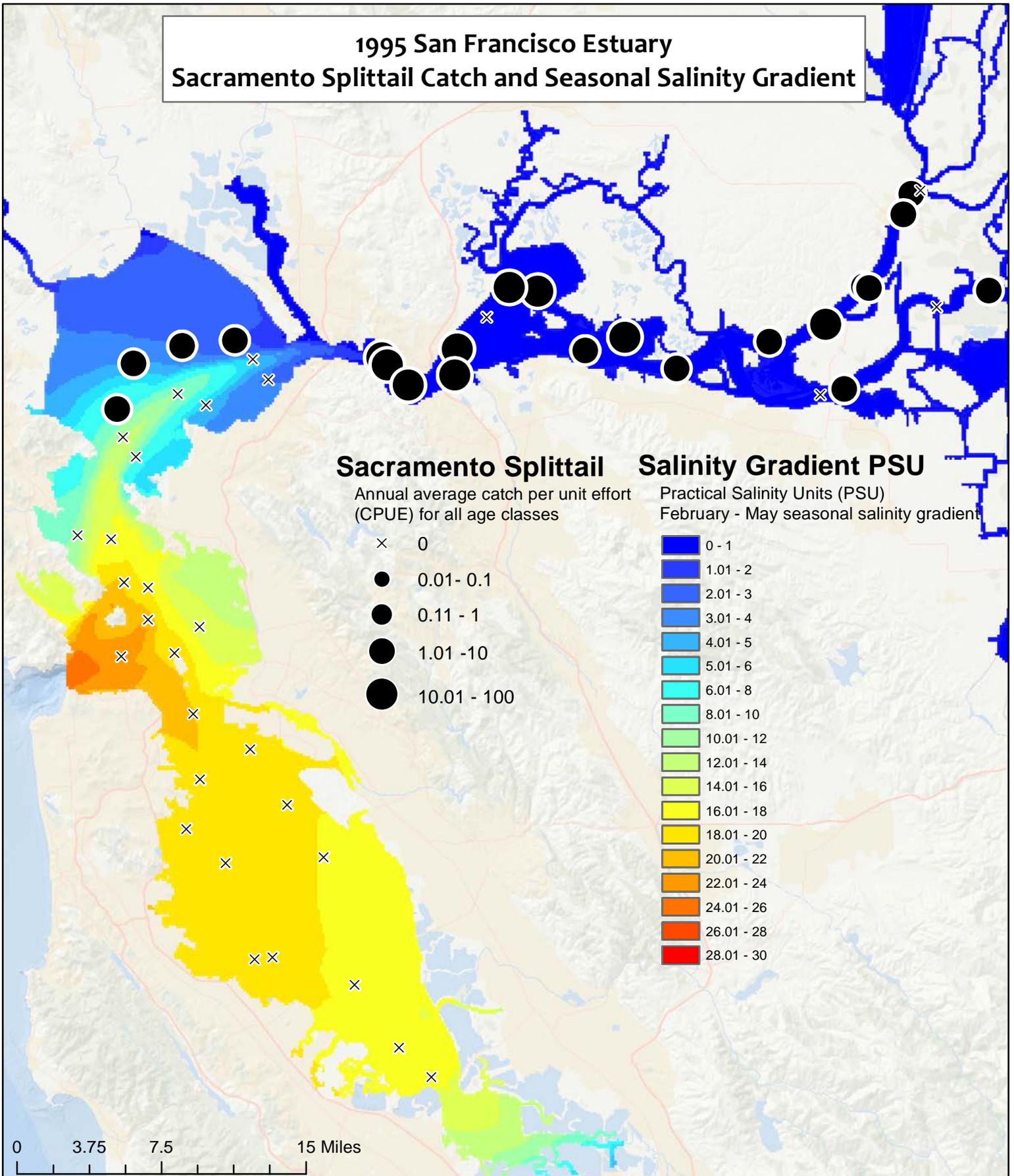
The February to May seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of Sacramento splittail (total population) for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), Marine Ecology and Progress Series 243: 39-55.

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# 1995 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

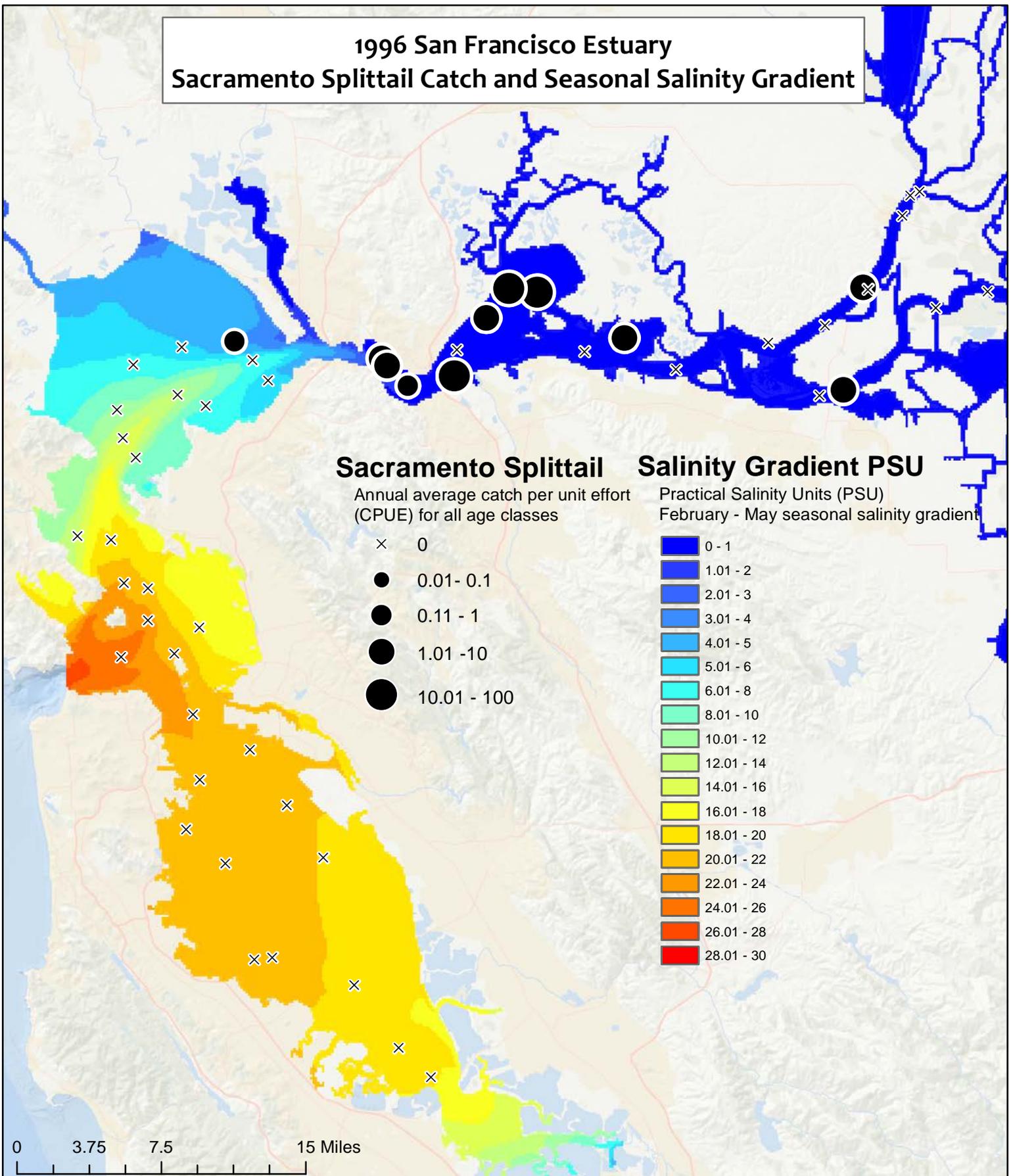
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# 1996 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

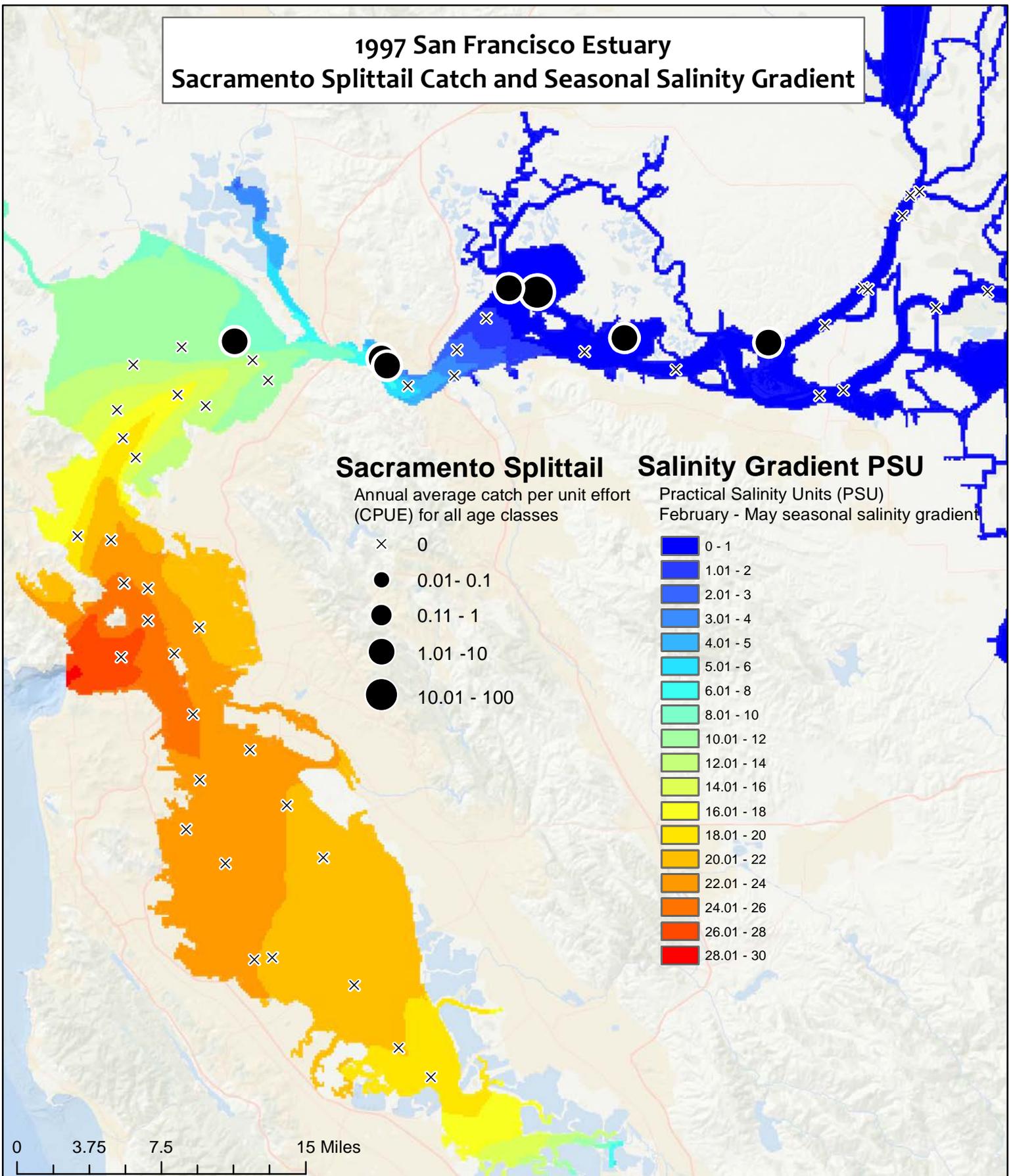
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# 1997 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

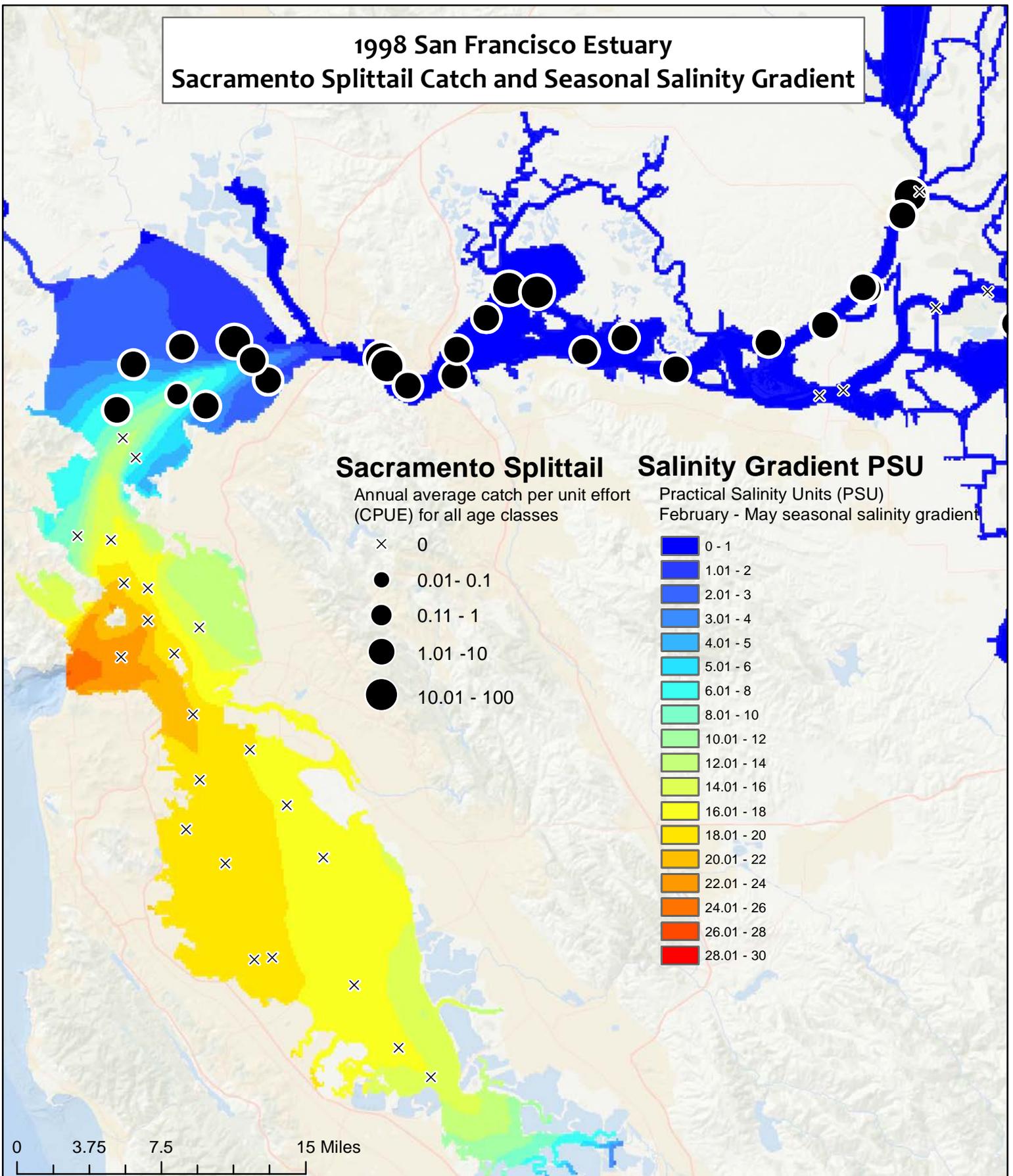
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Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



# 1998 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

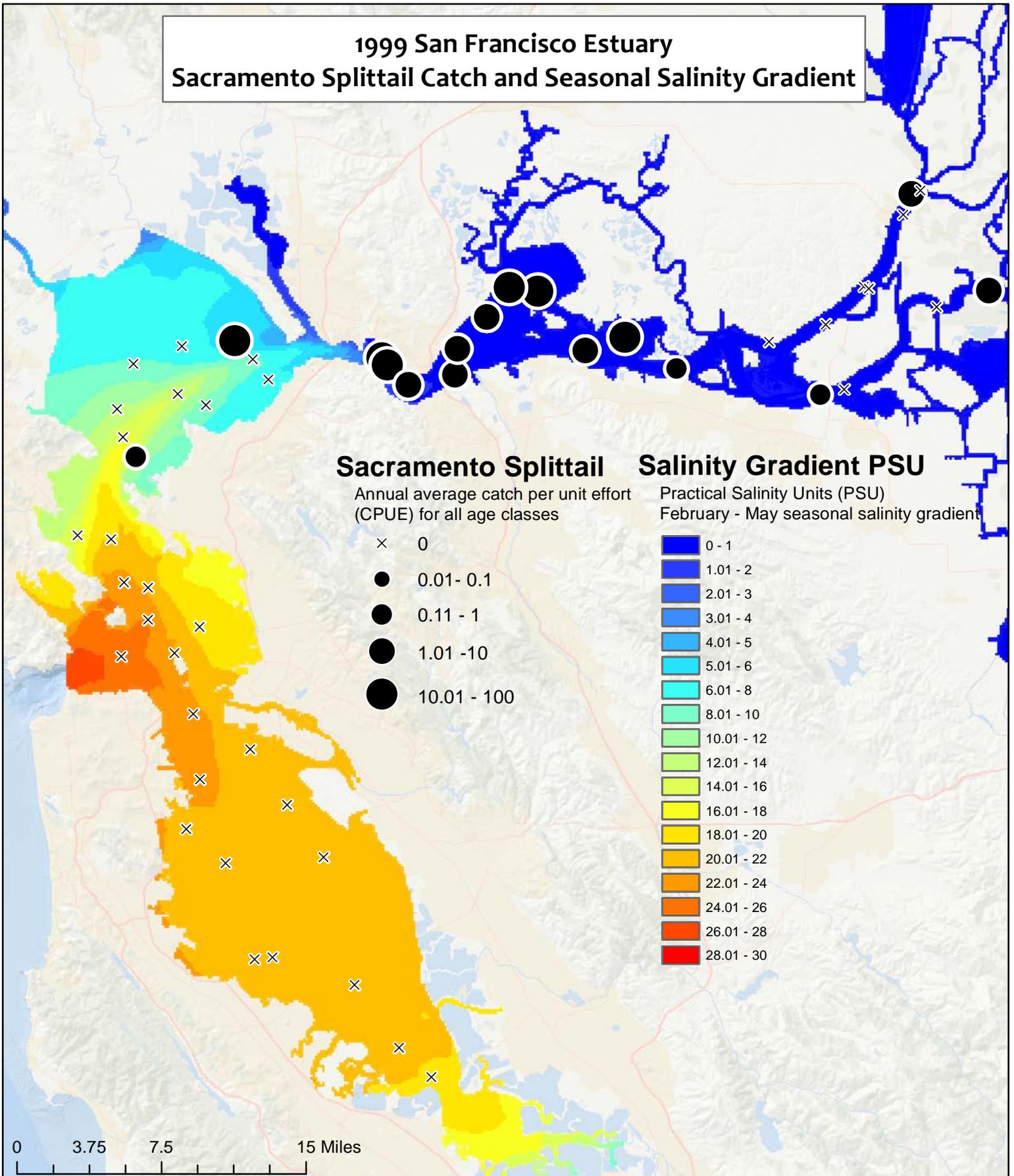
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# 1999 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

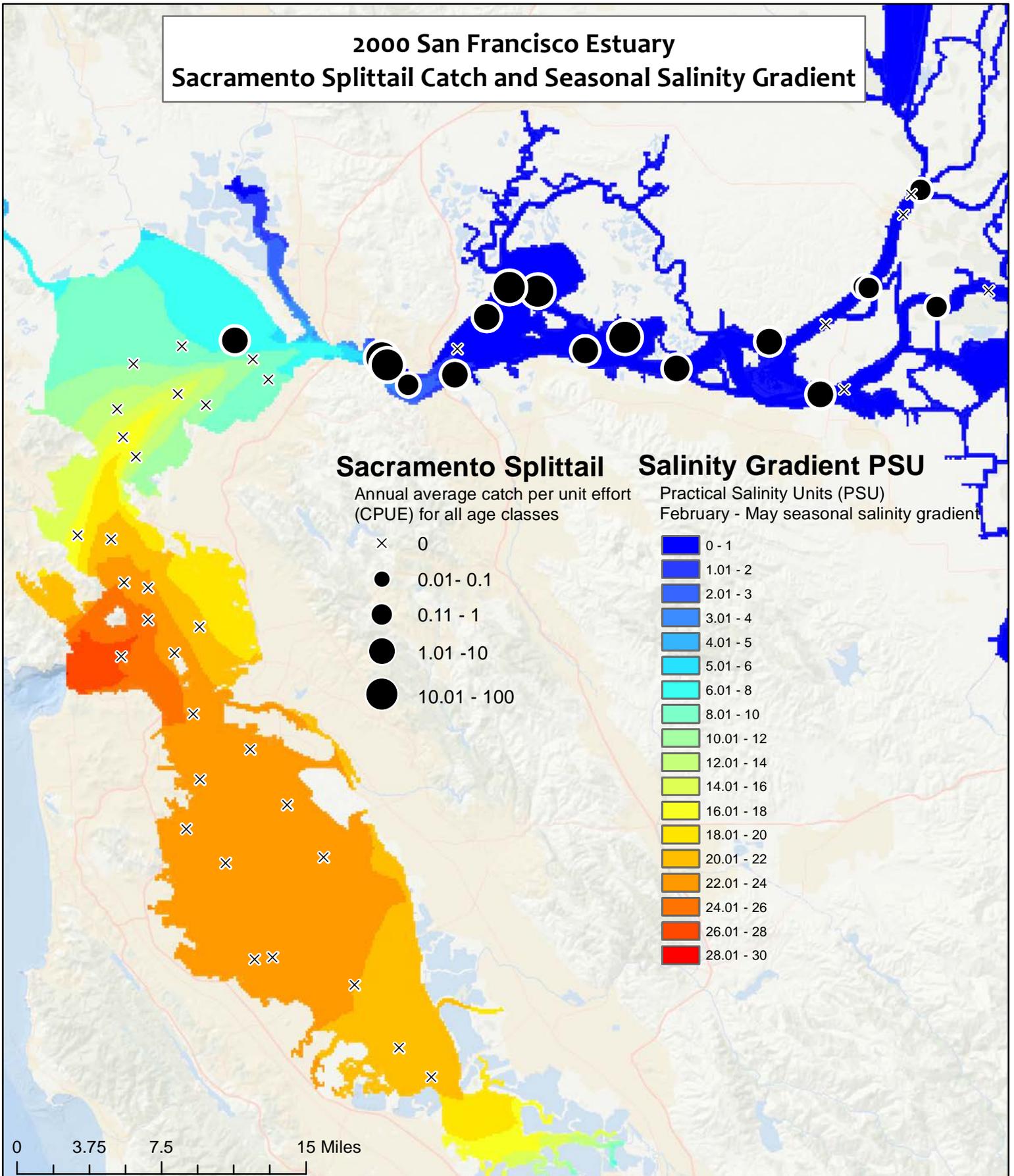
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# 2000 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

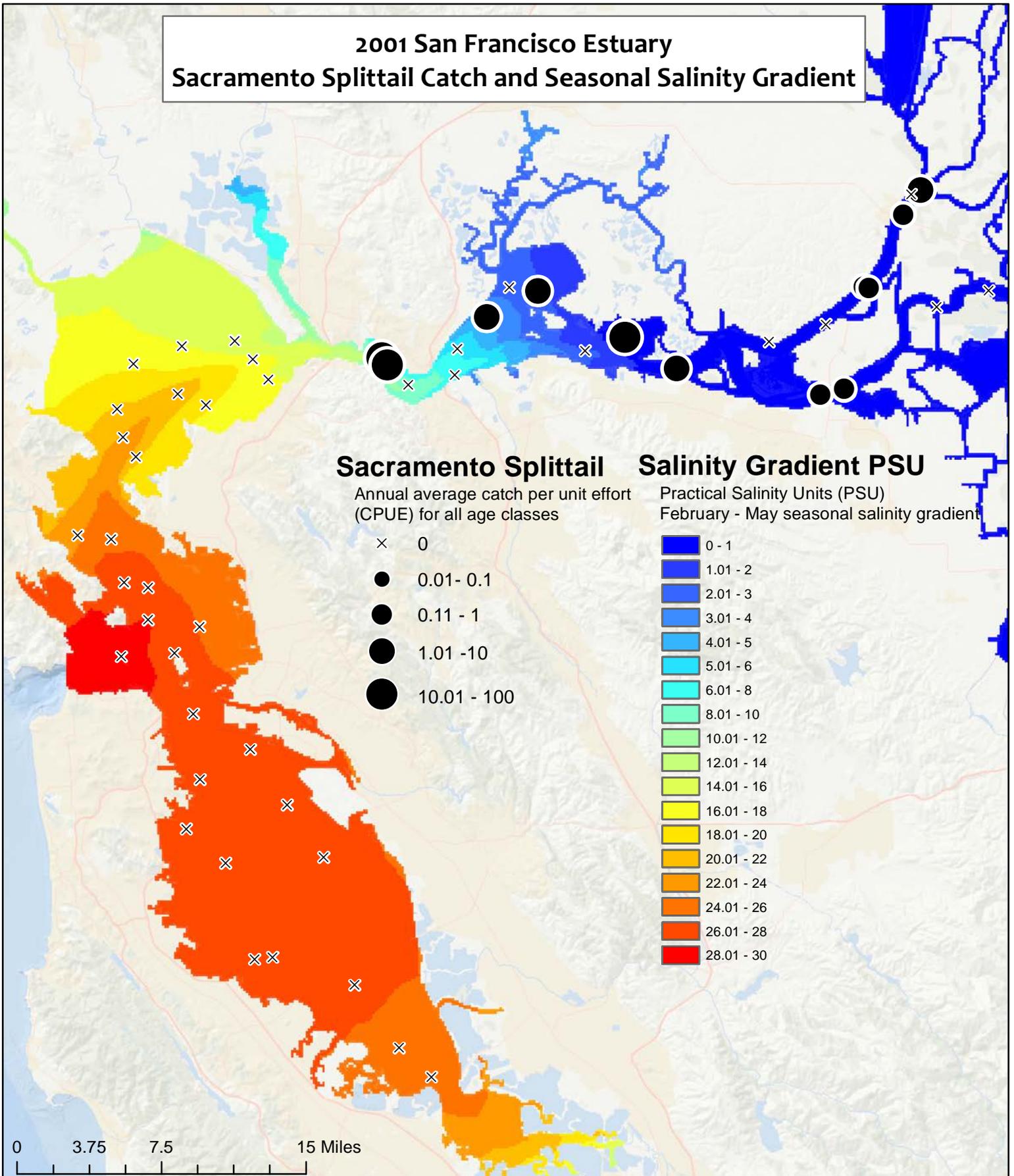
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Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



# 2001 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

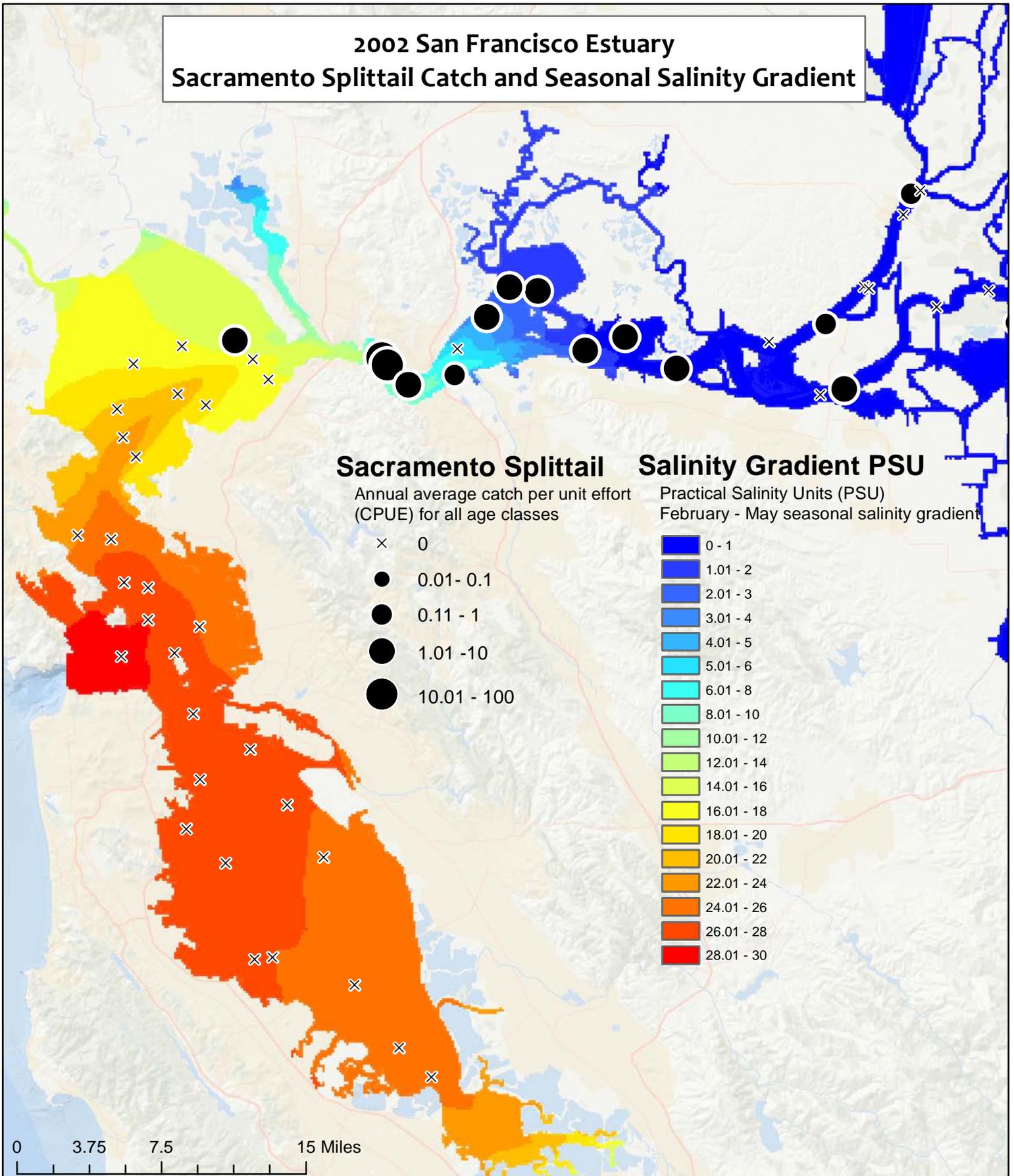
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**Data sources**

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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



# 2002 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

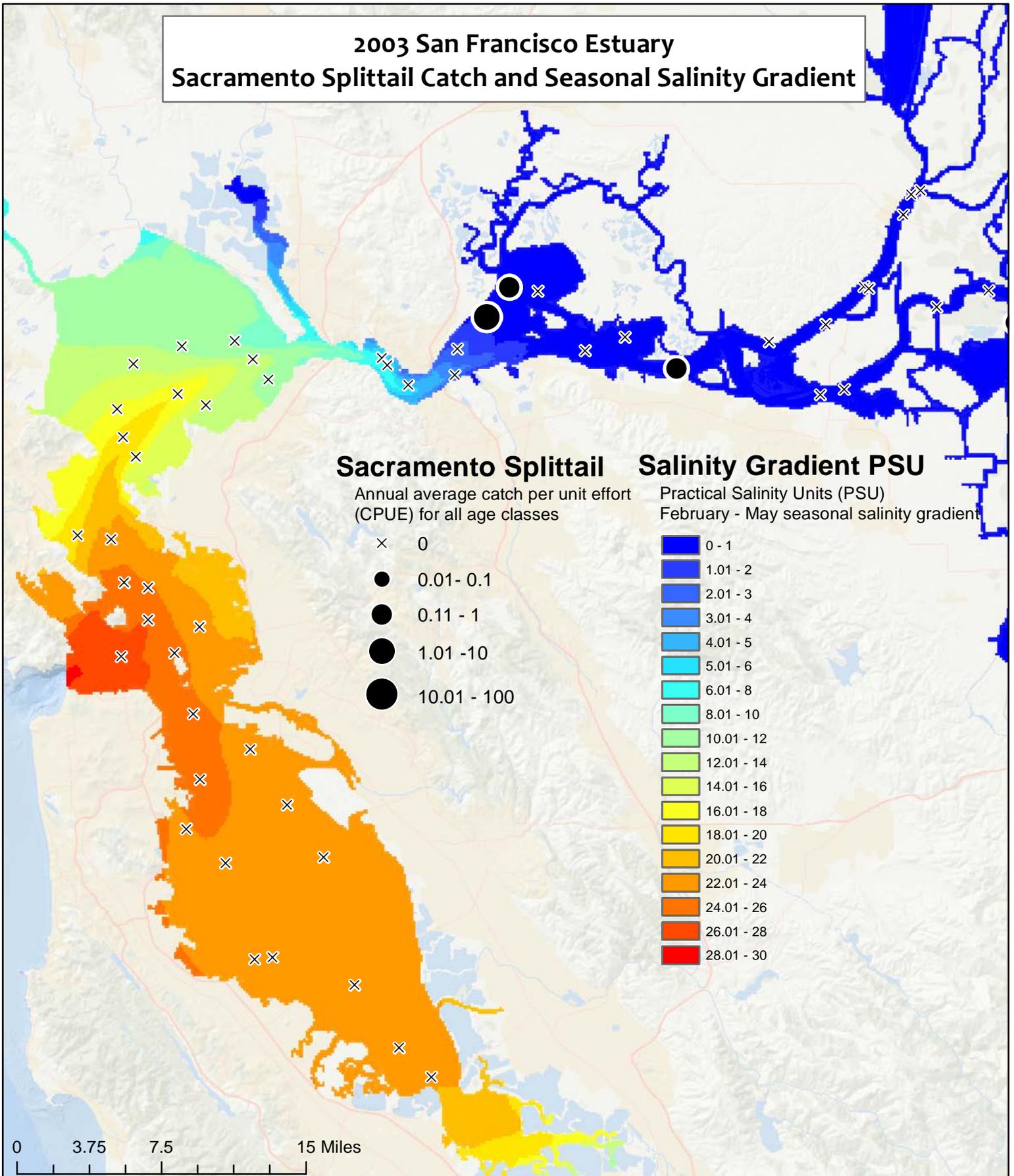
The February to May seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of Sacramento splittail (total population) for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), *Marine 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



# 2003 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

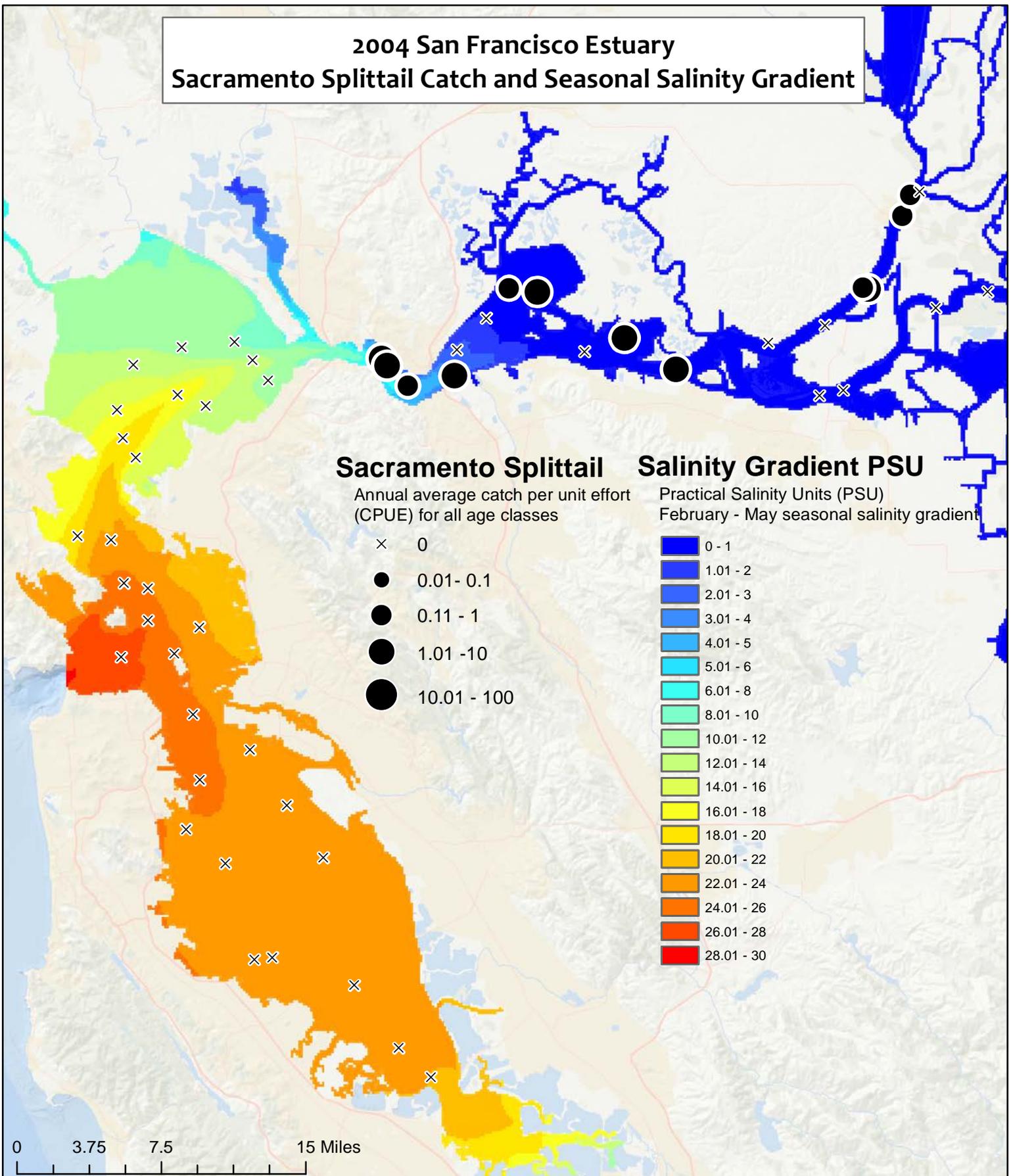
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Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



# 2004 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

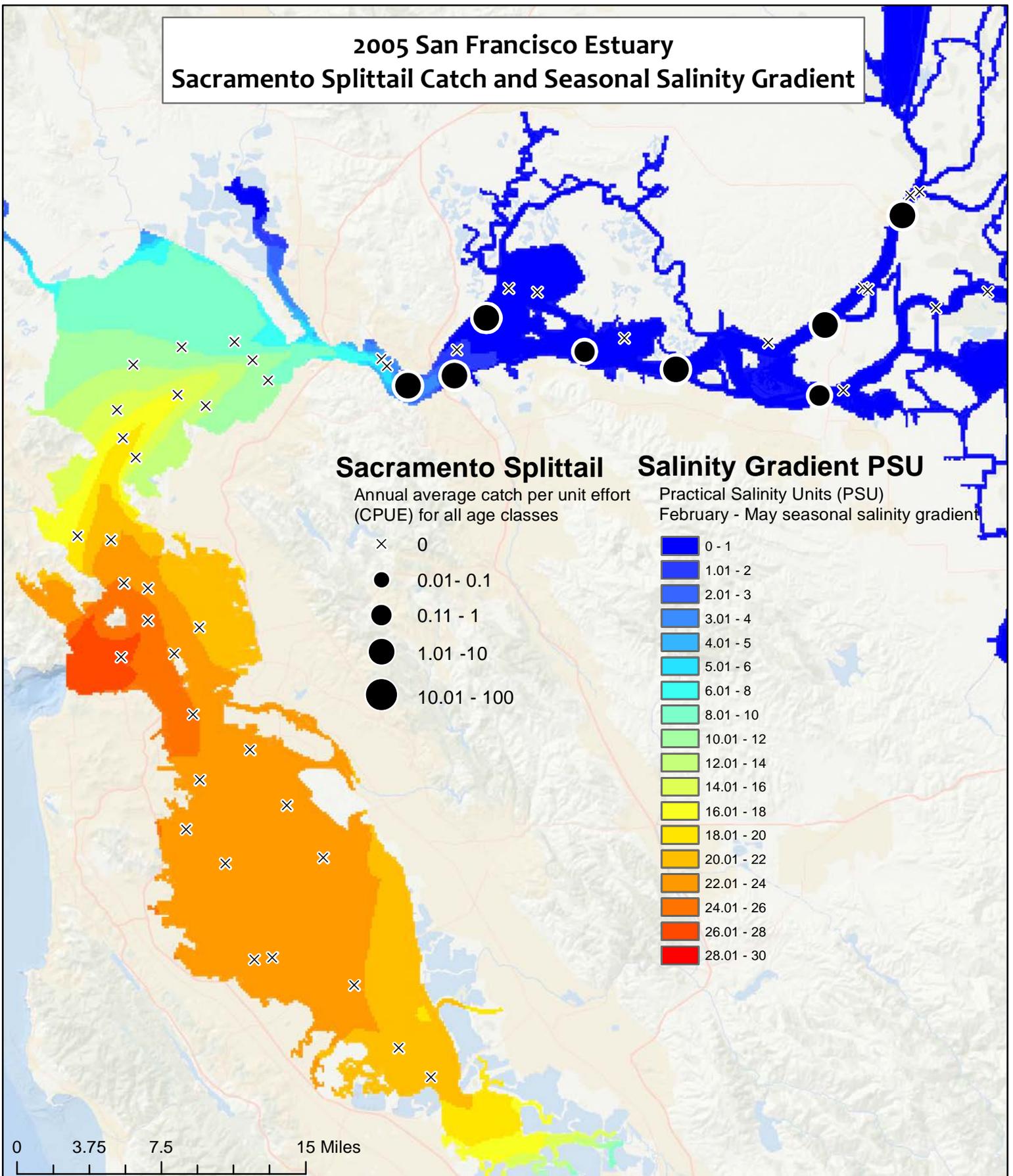
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Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



# 2005 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

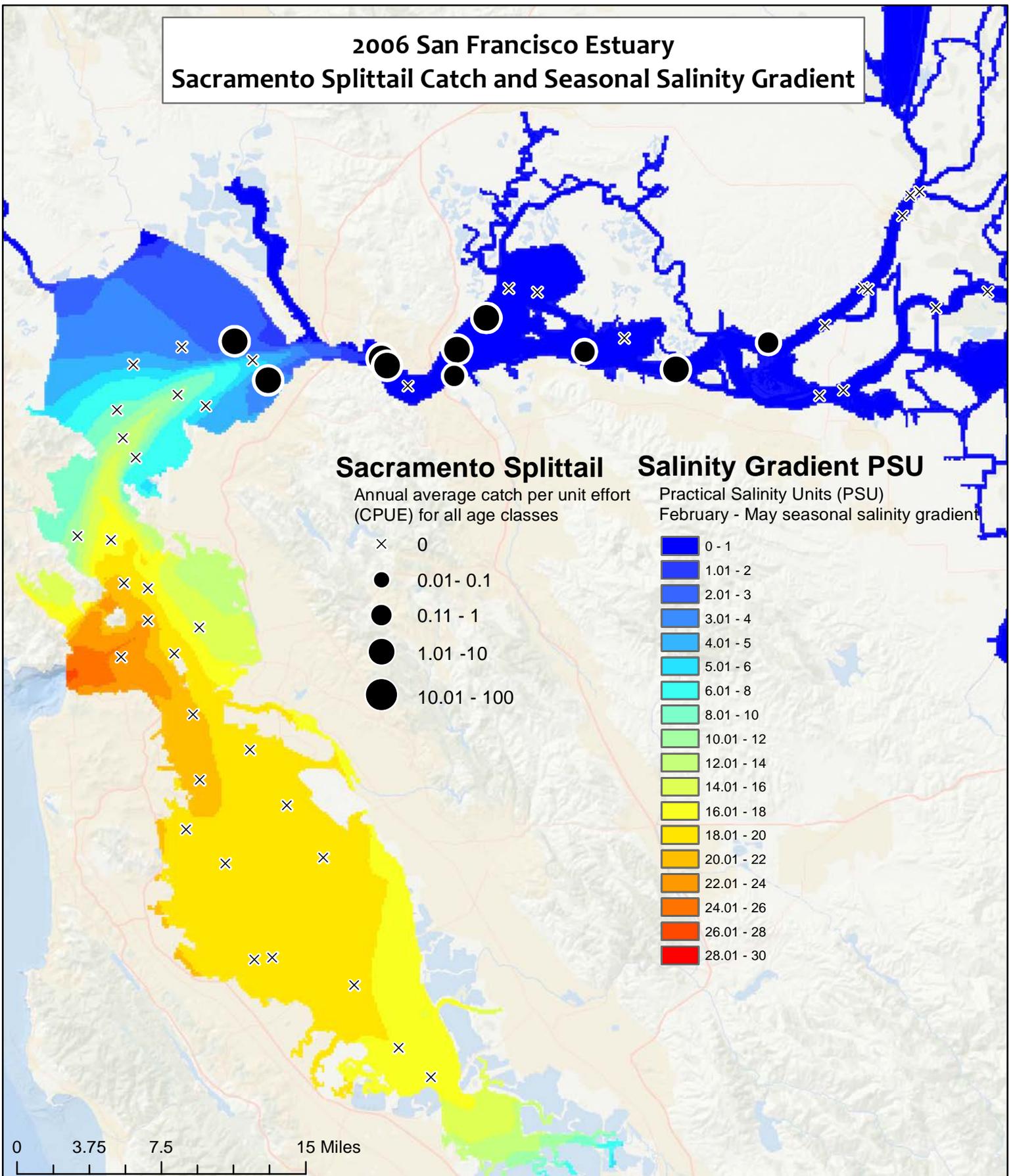
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# 2006 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

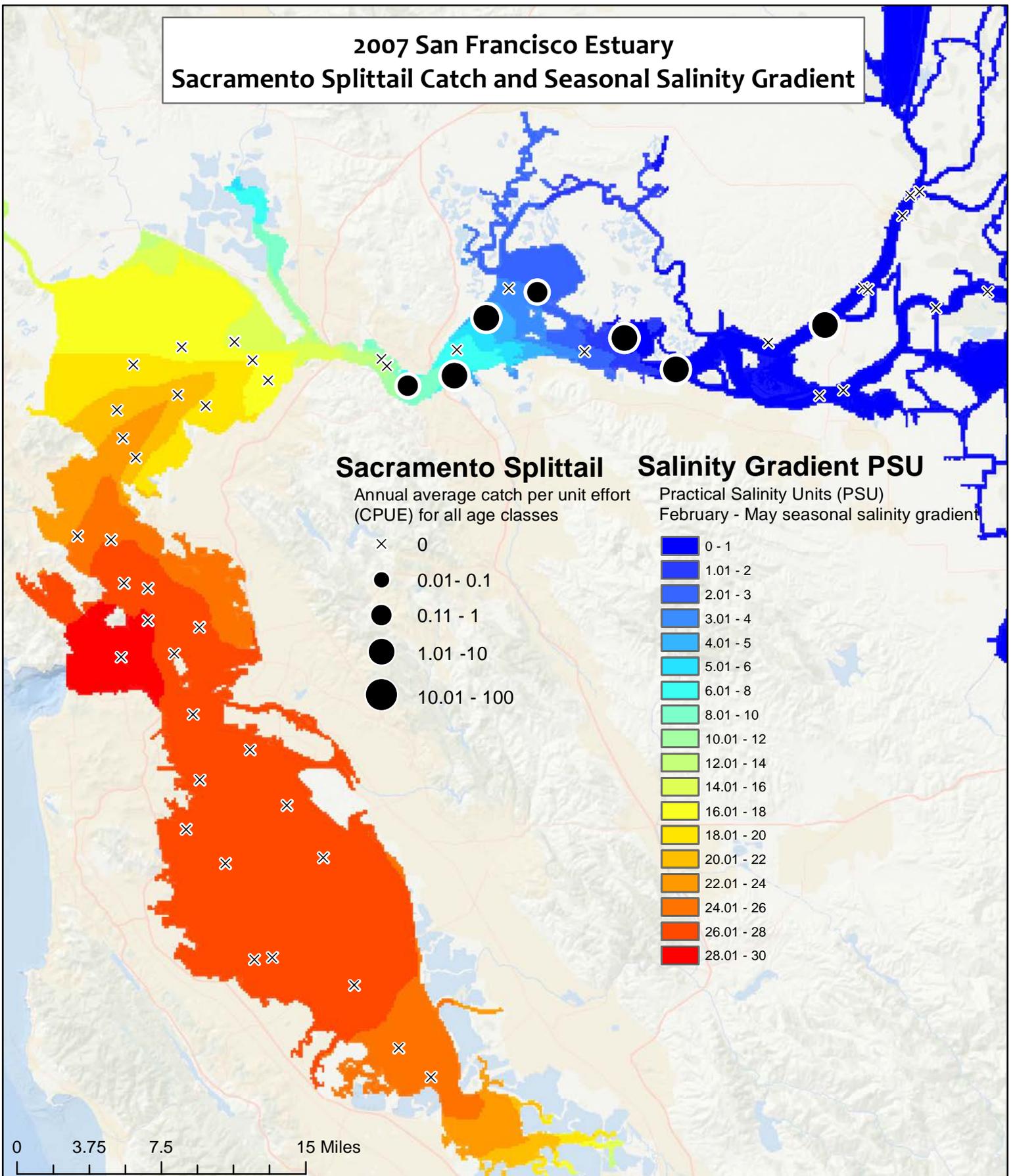
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Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



# 2007 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

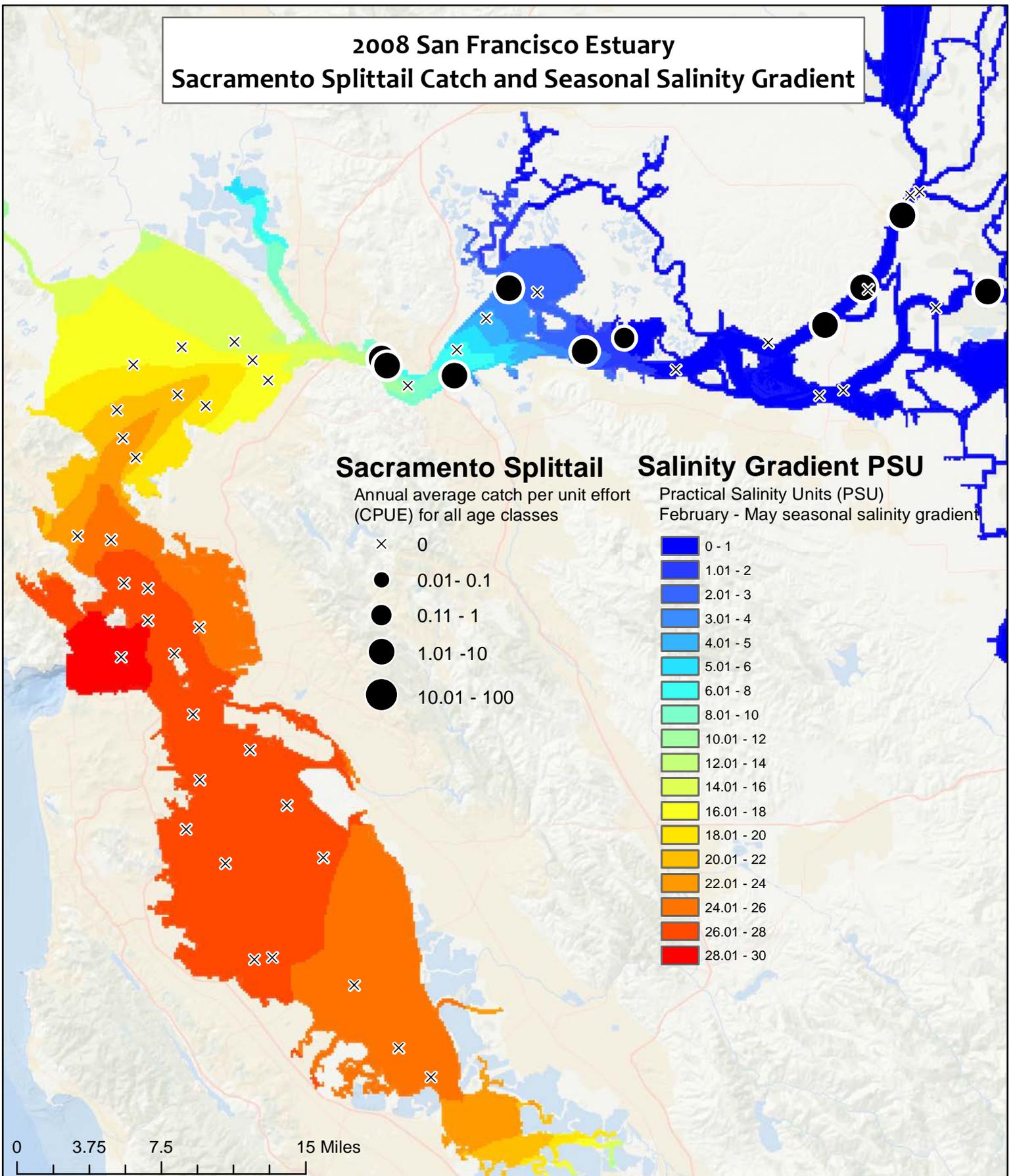
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Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



# 2008 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

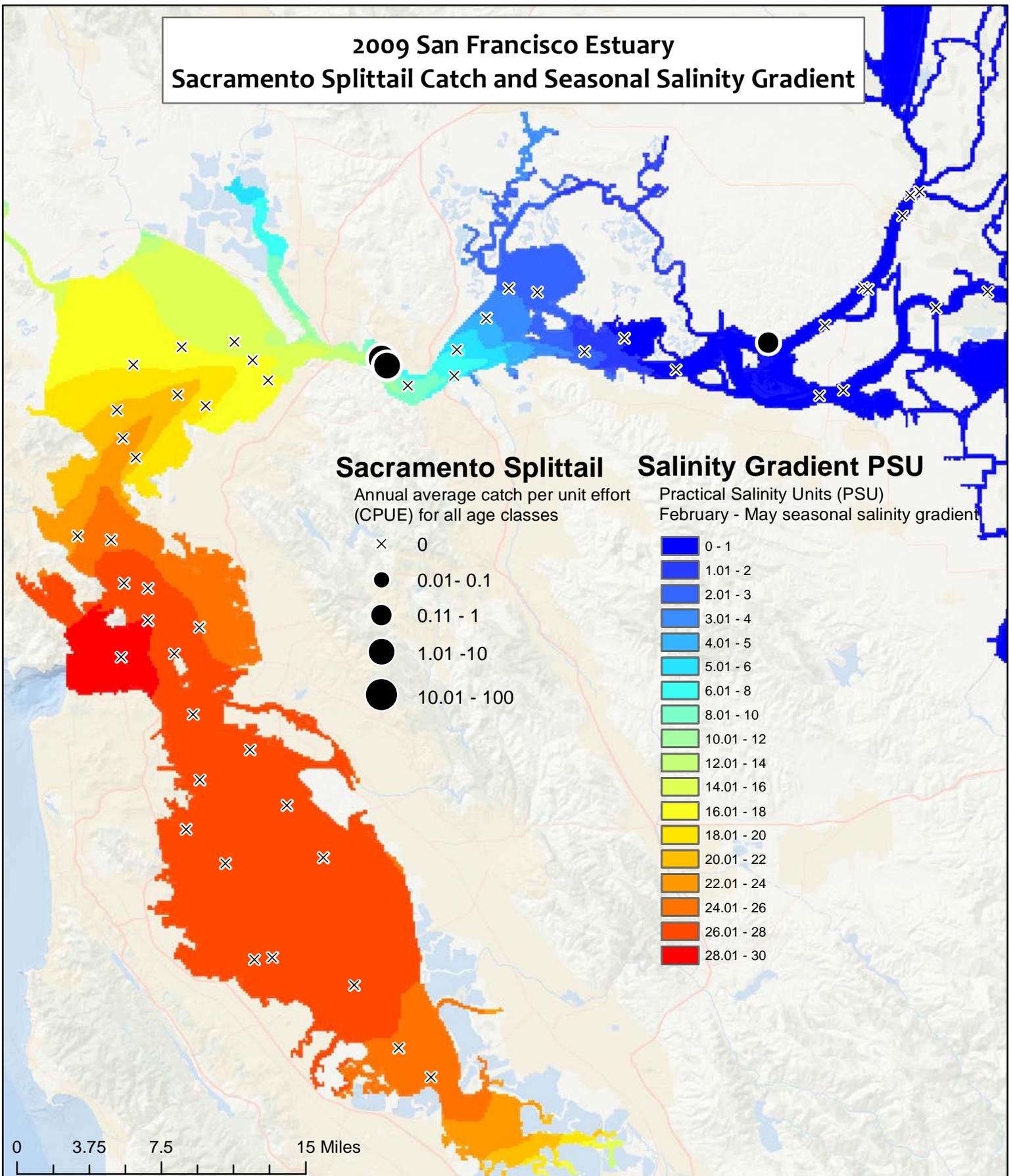
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Salinity Gradient - Coarse-grid version of UnTRIM San Francisco Bay-Delta Model, Delta Modeling Associates  
Basemap - ESRI, DeLorme, BEBCO, NAANGDC, & others



# 2009 San Francisco Estuary Sacramento Splittail Catch and Seasonal Salinity Gradient



**About this map**

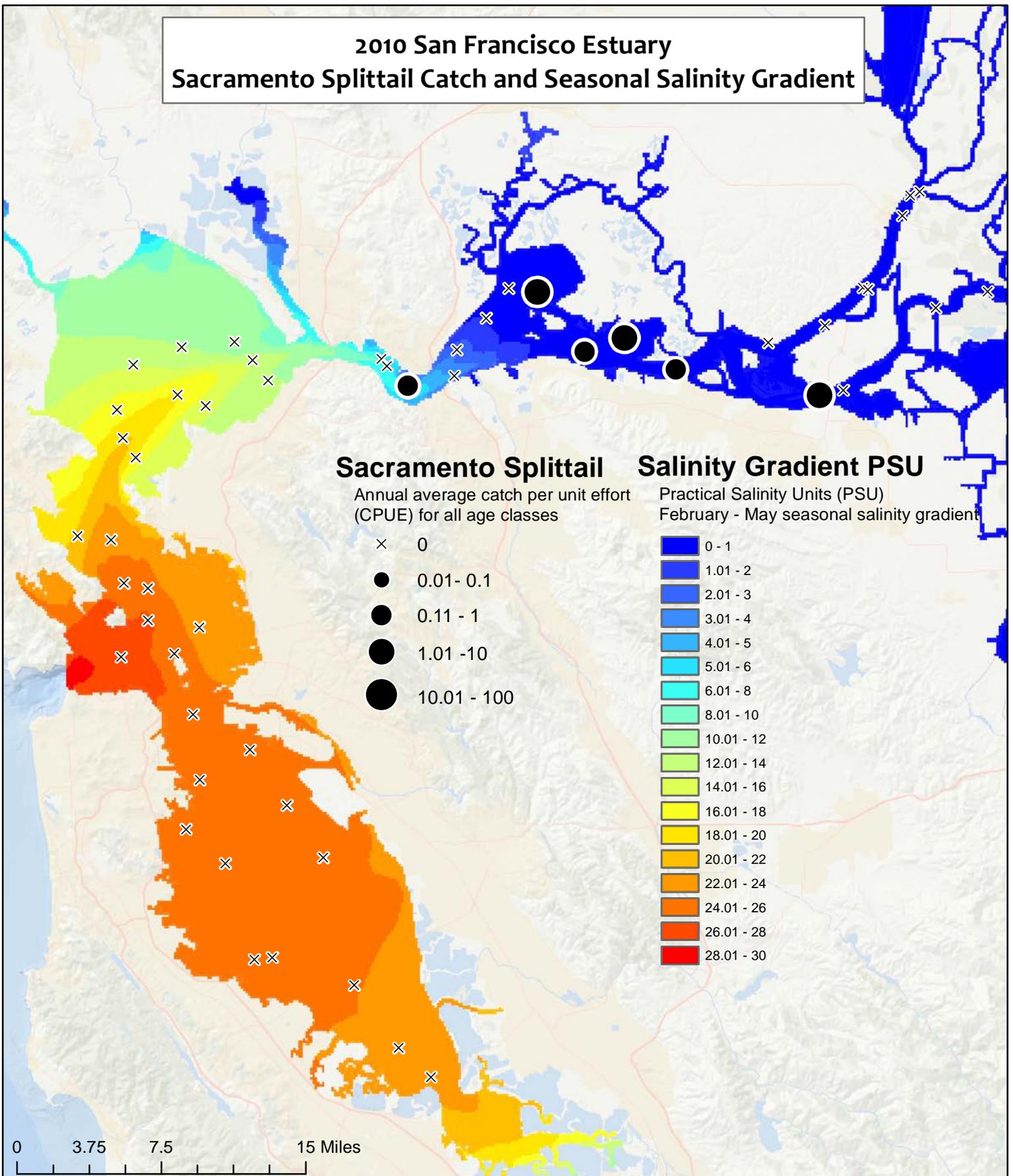
The February to May seasonal salinity gradient is plotted in the SF Estuary beneath the annual average CPUE of Sacramento splittail (total population) for each monitoring station in the SF Bay Study mid-water trawl, consistent with the salinity-abundance relationship published in Kimmerer (2002), *Marine 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  
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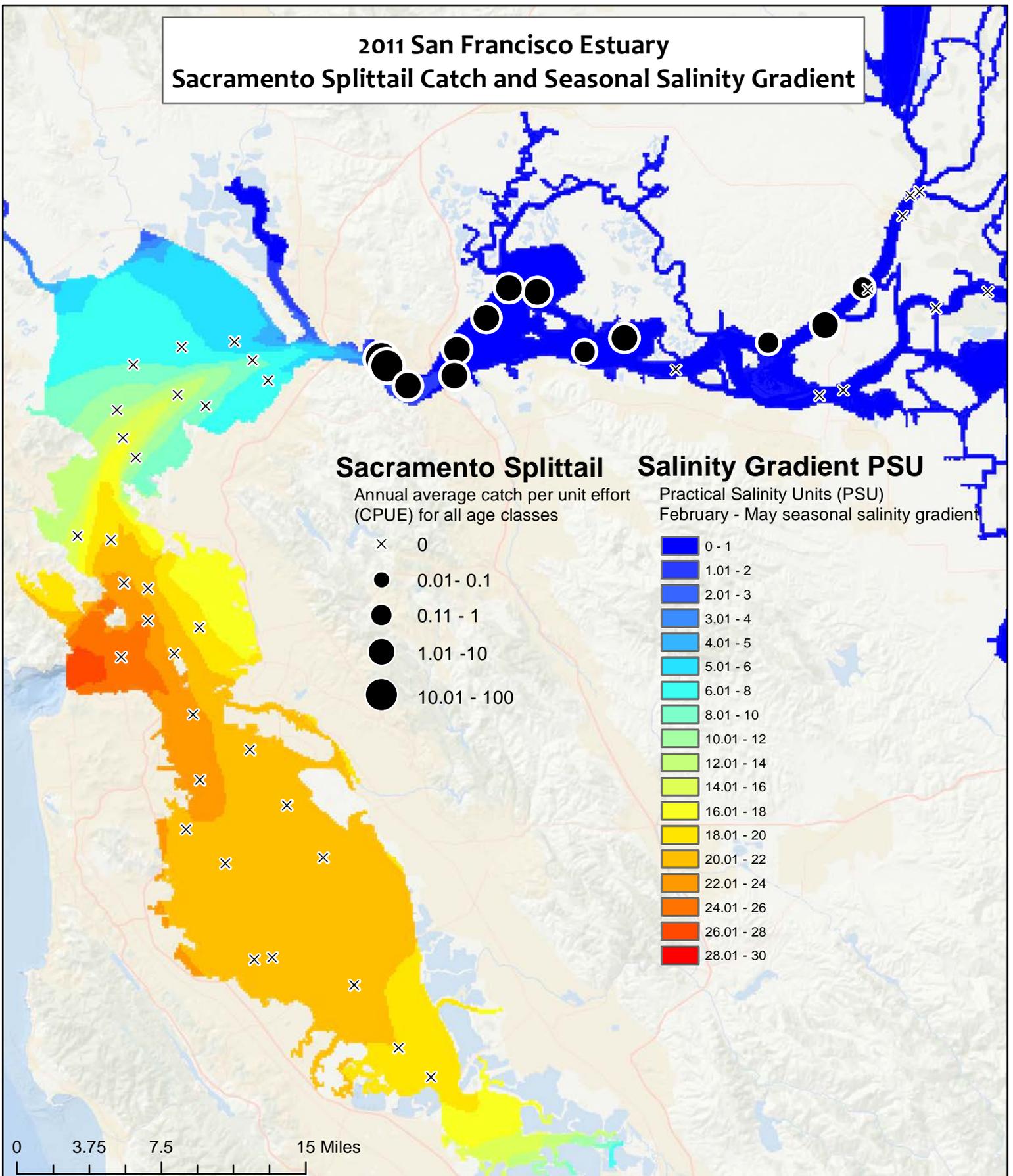
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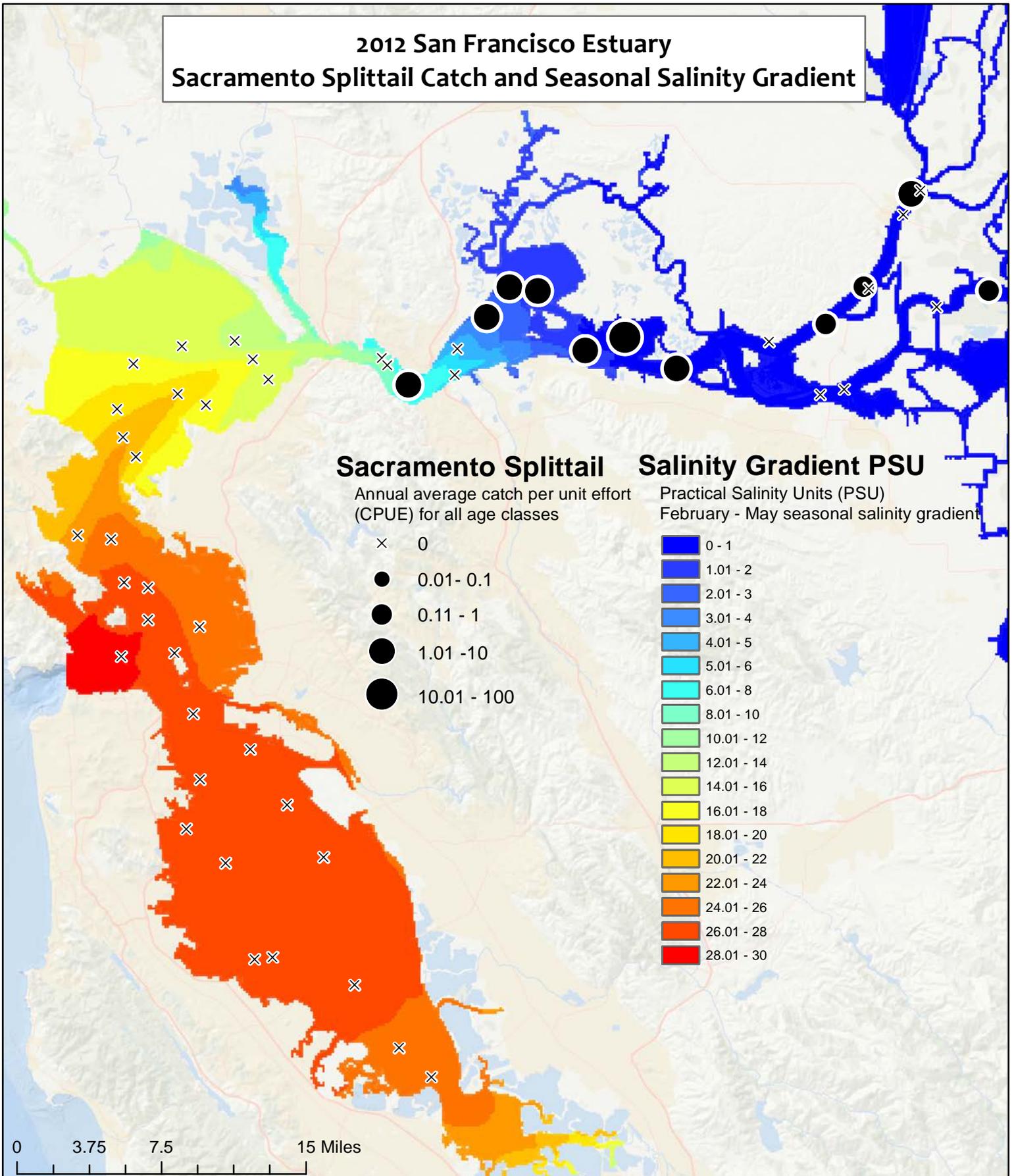
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