

Marine Biotoxin Monitoring in California

Ocean Protection Council
February, 2016

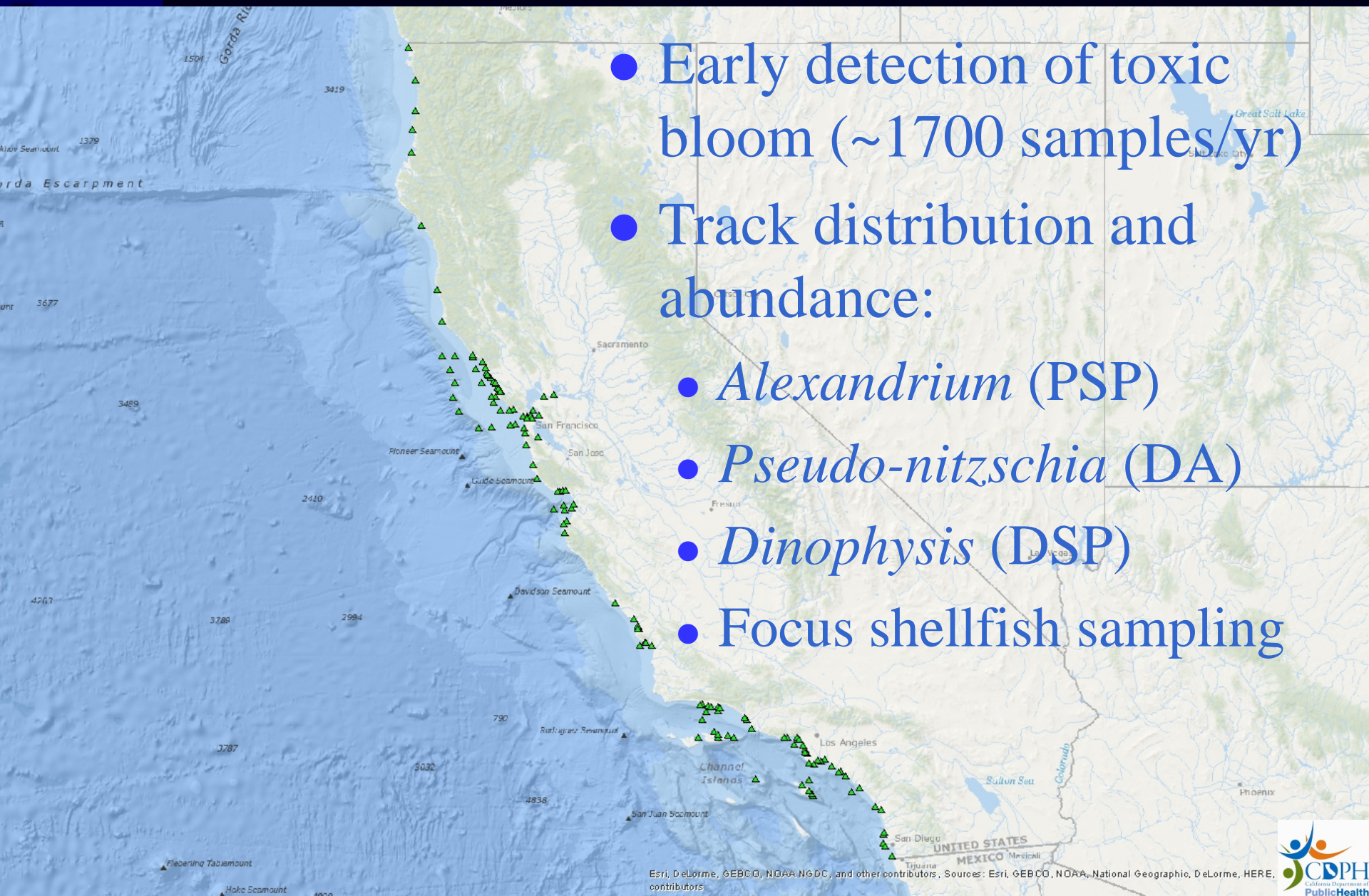
California Department
of
Public Health

Environmental Management Branch
Environmental Health Services Section
Marine Biotoxin Monitoring Program

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Phytoplankton Monitoring Sites: 2015

- Early detection of toxic bloom (~1700 samples/yr)
- Track distribution and abundance:
 - *Alexandrium* (PSP)
 - *Pseudo-nitzschia* (DA)
 - *Dinophysis* (DSP)
 - Focus shellfish sampling

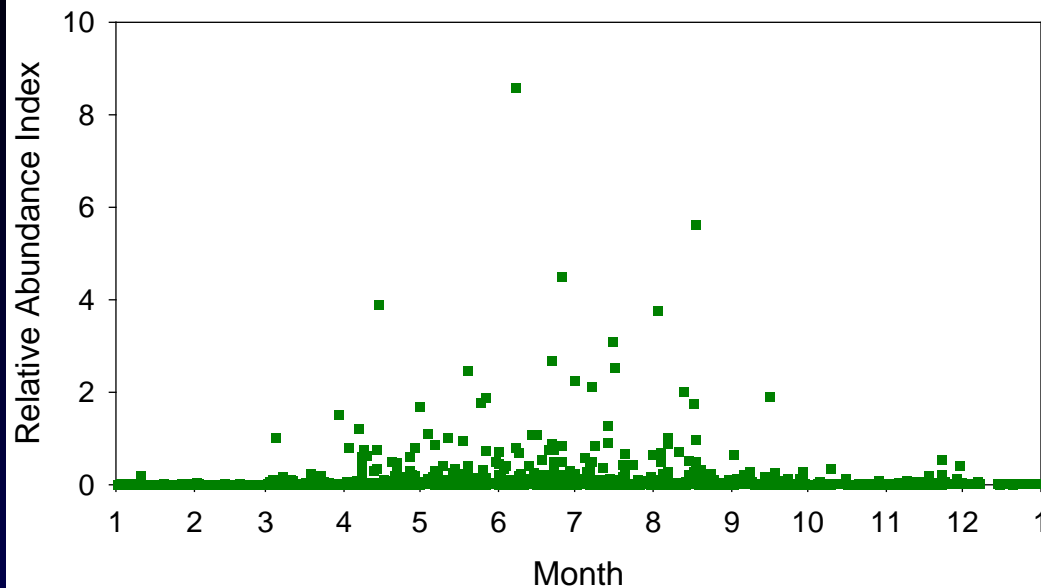


Shellfish Monitoring Sites: 2015

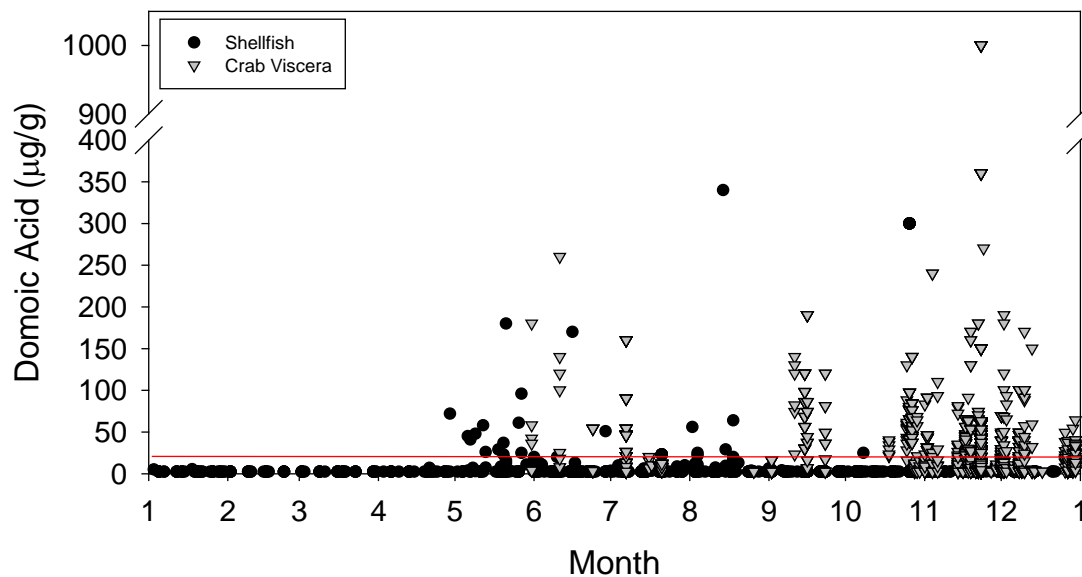
- All samples tested for PSP
- DA analyses based on phyto observation, environmental cues
- # sites doubled for DA
- DA samples 2-3X normal

■ = Mussels
● = Crab

Pseudo-nitzschia Relative Abundance California 2015



Domoic Acid in Seafood California 2015



Acknowledgements:

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- ◆ Bodega Marine Lab
- ◆ Sonoma State University
- ◆ Hog Island Oyster Company
- ◆ Marin Oyster Company
- ◆ Cove Mussel Company
- ◆ Tomales Bay Oyster Company
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- ◆ NatureBridge
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- ◆ Marine Pollution Studies Laboratory
- ◆ NOAA Coastal Discovery Center
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Photo courtesy of Todd Warshaw