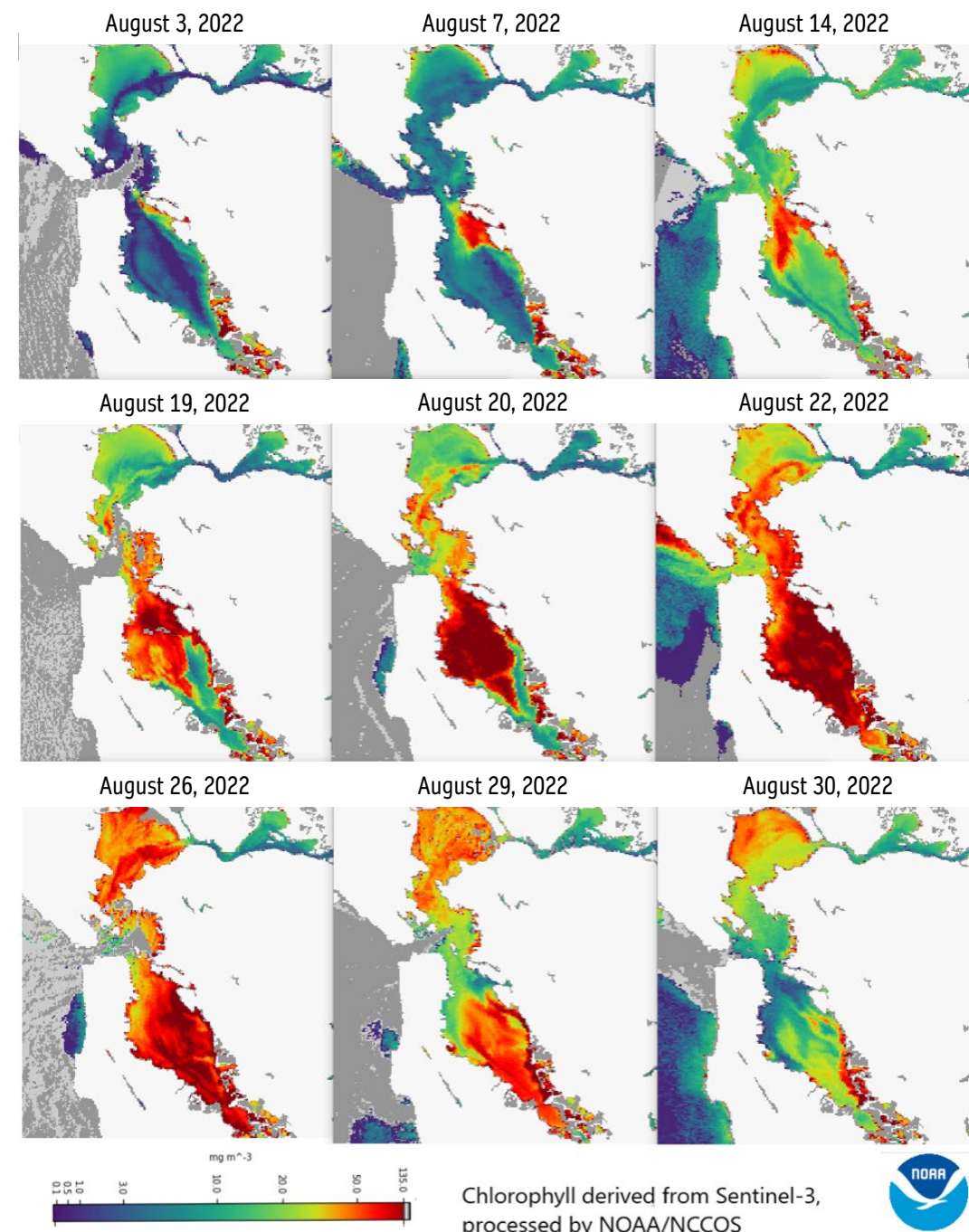


# HAB Progression August 2022

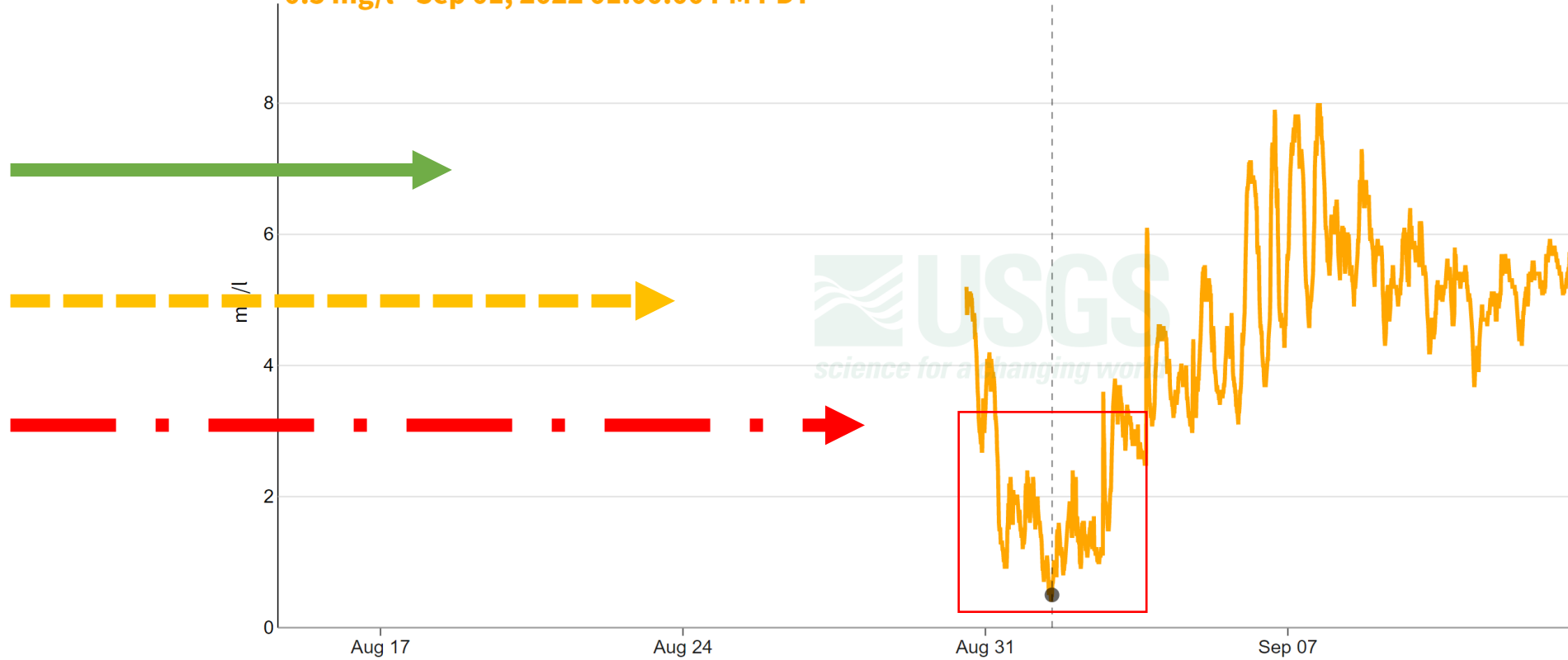
- Multi-week harmful algal bloom (HAB).
- Result from the overgrowth of algae, or phytoplankton.
- Can produce cyanotoxins.
- Can affect human health, cause acute and chronic illnesses, and in some cases mortality .
- Results in low dissolved oxygen that suffocate fish and can cause widespread fish mortality.
- HABs are becoming more frequent and more intense across California.
- Decreased freshwater flows, warm water and increased concentrations of nutrients and other land-based pollutants exacerbate the growth of algae and cyanotoxins.
- Image: Chlorophyll presence associated with algae production in San Francisco Bay, August 2022.



# Low Dissolved Oxygen Suffocates Fish

Dissolved oxygen, water, unfiltered, mg/L, LOWER: 4 ft from bed ⓘ

0.5 mg/l - Sep 01, 2022 01:00:00 PM PDT



# Harmful Algal Bloom in SF Bay Results in Fish Kills



August 31, 2022



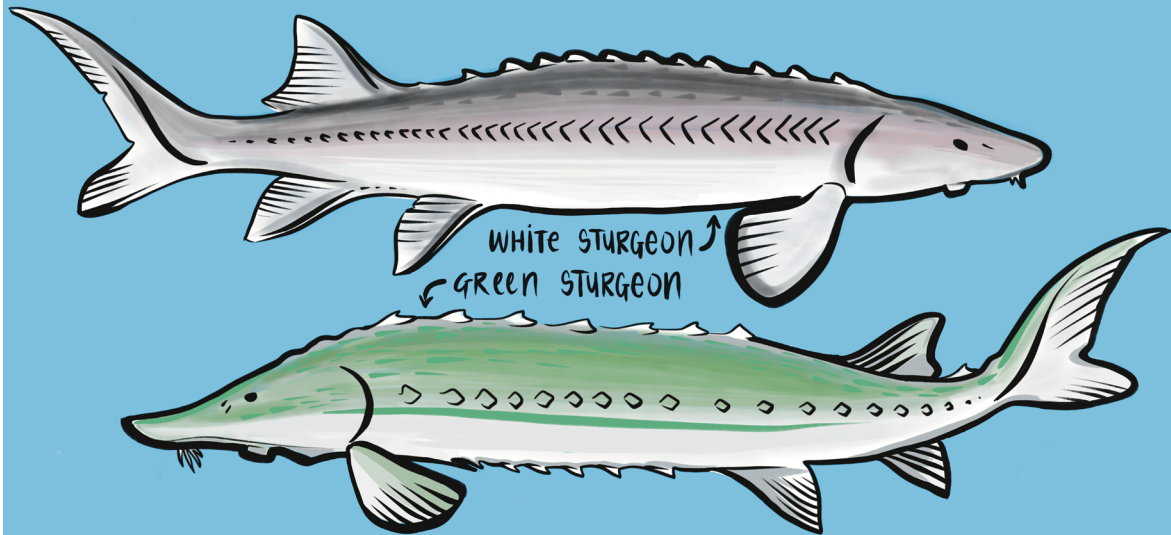
# CaSturgeonResearch@gmail.com

Pascale Goertler    Alicia Seesholtz    Andrea Schreier    Page Vick & Annalisa Tuel  
John Kelly & Christina Parker    Kirsten Sellheim & Jamie Sweeney  
Nicolas Demetras    Michael Beakes



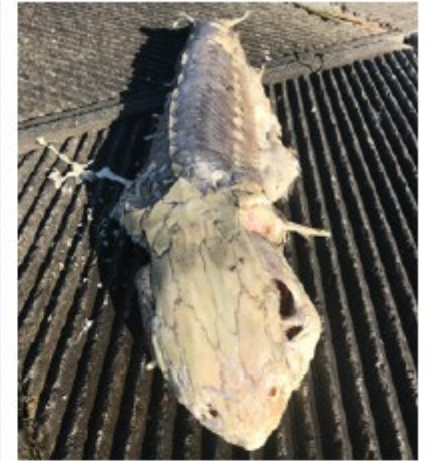
## PROTECT CALIFORNIA STURGEON

Conserve Water / Follow Fishing Regulations  
Recycle / Use Eco-Friendly Products



Report Dead Sturgeon: [CaSturgeonResearch@gmail.com](mailto:CaSturgeonResearch@gmail.com)

## STURGEON CARCASS REPORTING: What's that smell?



White Sturgeon are popular recreational fish. Green Sturgeon are protected by the Endangered Species Act and cannot be fished. Sturgeon can live more than 100 years and evolved over 200 million years ago. Both species can be found in both the San Francisco Bay and the Sacramento-San Joaquin Delta year-round!

**Threats to sturgeon in the SF Bay and Delta include:** Predation by California sea lions, habitat degradation, dredging, ship strikes and poaching.

### HOW TO REPORT:

If You Smell Something, Say Something!

If you find a dead sturgeon, email photos to California Sturgeon Research at [CaSturgeonResearch@gmail.com](mailto:CaSturgeonResearch@gmail.com)

Include the **date**, **location** (smartphone map coordinates preferred), and a **common object** for size reference.

Do not move or disturb the carcass.