

Why Release Fish?

- Voluntary conservation
 - protect the resource for future generations
- Required by regulation to preserve stock
 - Size limits to protect certain age classes
 - Bag limits to ensure fishery is sustainable



Factors Affecting Release Mortality

Rummer 2007

Retrieval Conditions

Species

Handling

Release Conditions













1) Retrieval Conditions

- Hook type and location
 - J-hooks: Embed deeper, higher mortality rates
- Retrieval time
 - Longer play = more stress, increased mortality
- Capture depth
 - -BAROTRAUMA

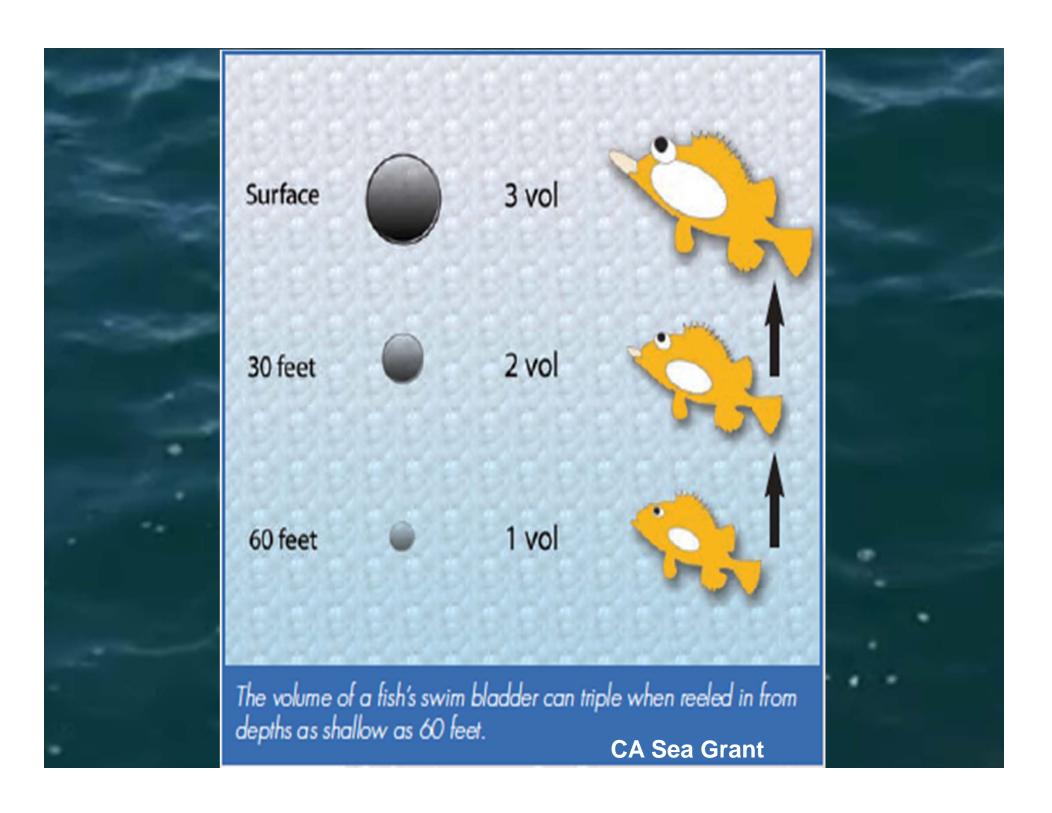


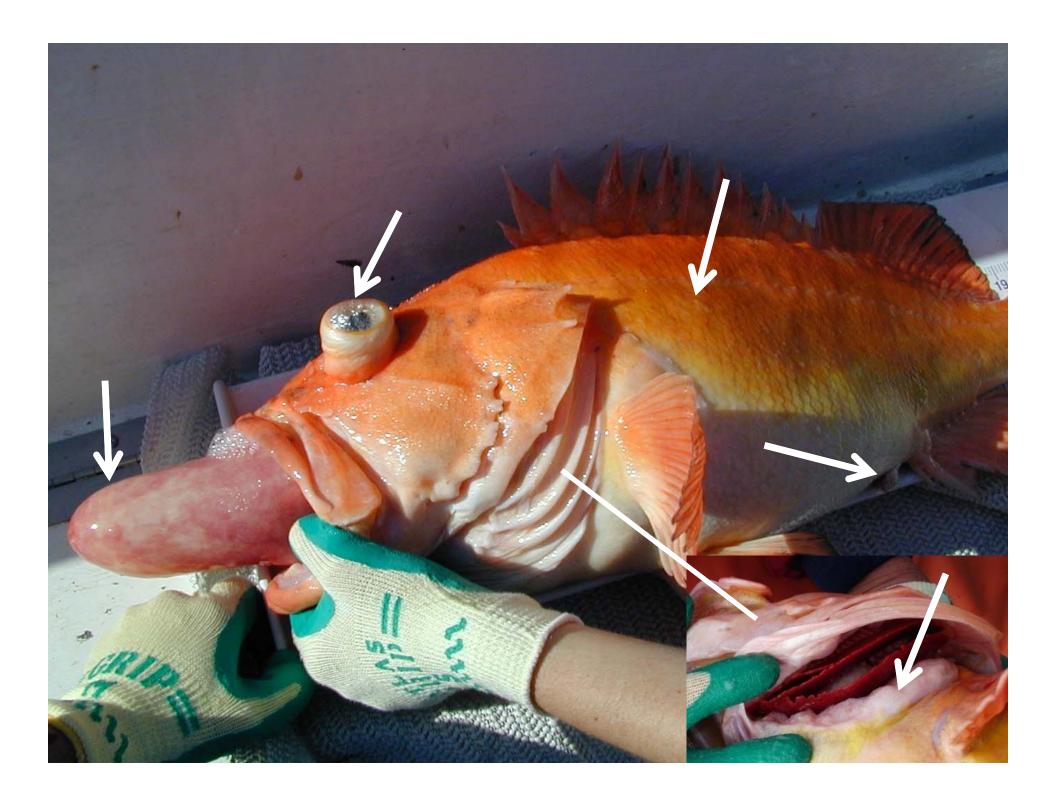
BAROTRAUMA

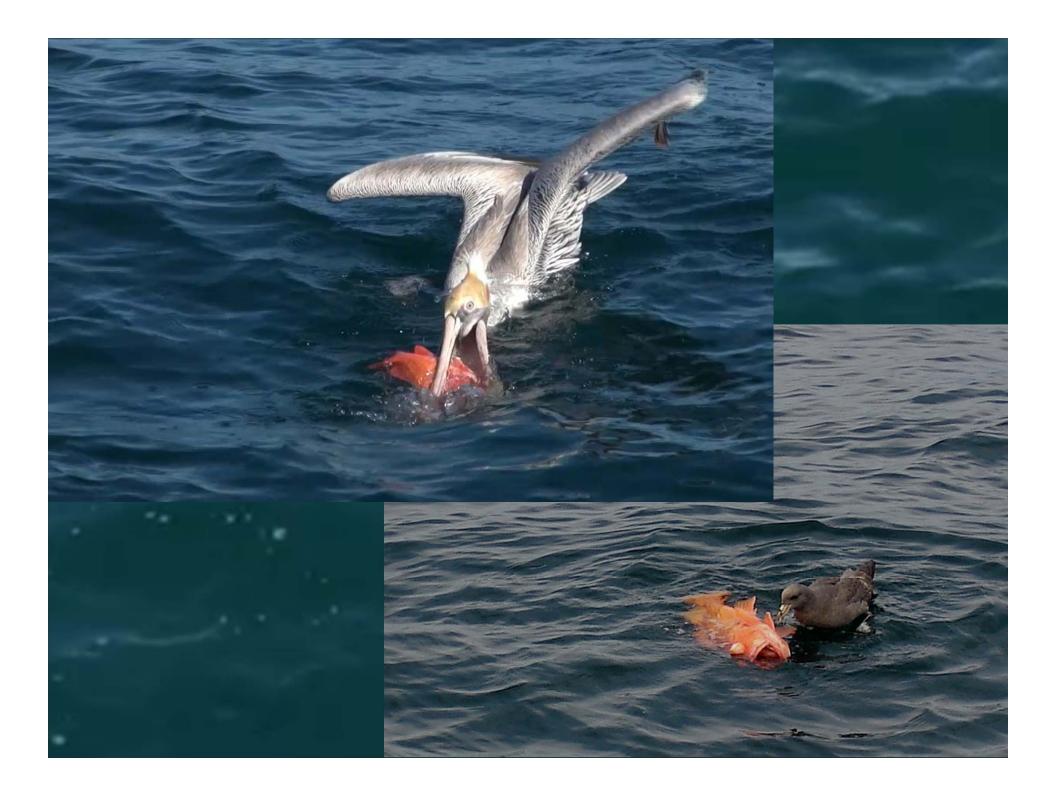
A condition caused from the expansion of gas in the swimbladder during capture











Recompression Devices









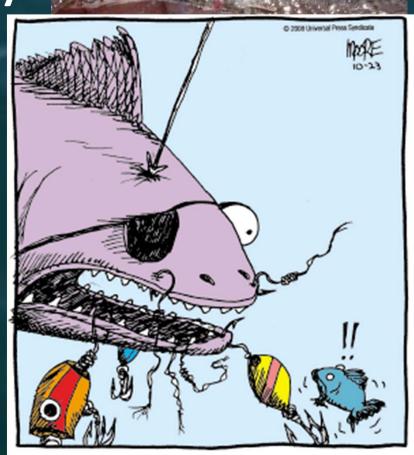




2) Fish Species

Swimbladder morphology

- Volume, shape, elasticity
- Healing rate
- Life history
 - Pelagic or benthic
- Capture history
- Behavioral impairment
 - Recovery time



"Luck? When you get to my level of competition, it has nothing to do with luck."

3) Handling

- Time on deck
 - The faster the better

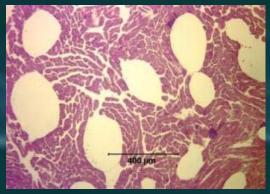


 Circle hooks - less damaging but more time to remove



- Possible injury to organs, introduce infection
- Removal of slime coat
 - Net abrasion, rough handling, rubbing against other fish







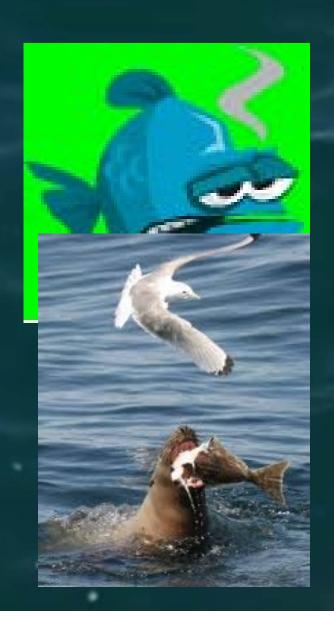
4) Release Conditions

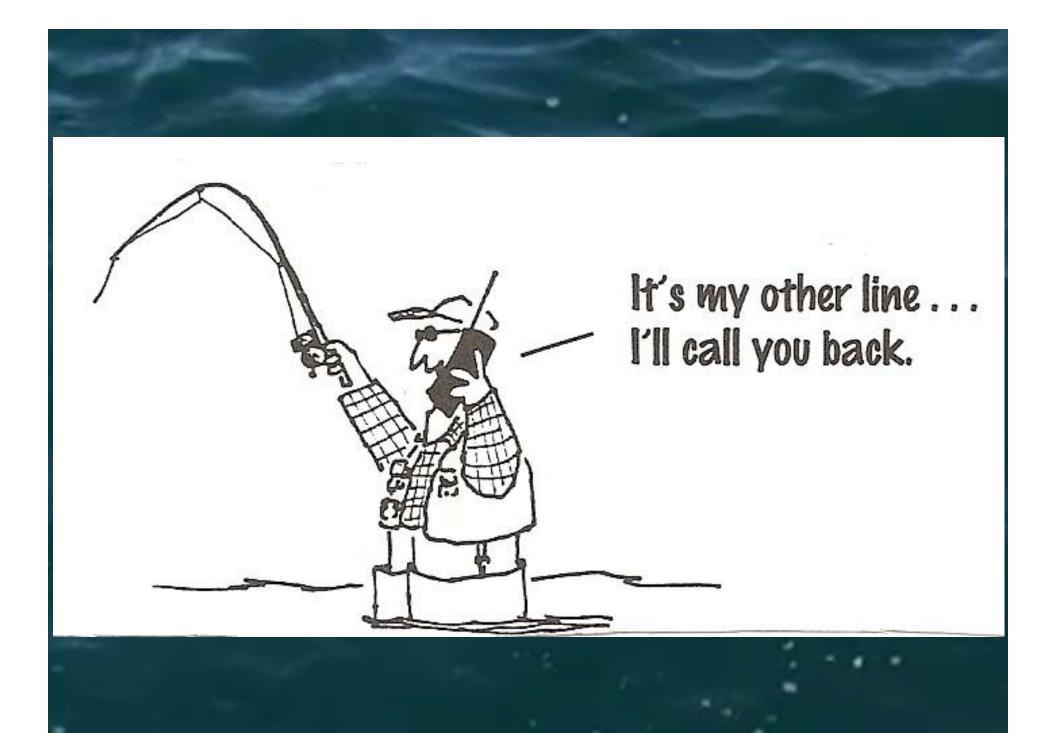
Temperature differential

- Surface temps may be outside of a fish's ability to acclimate
- Can exacerbate gas expansion

Predators

 Behavioral impairment makes a tasty snack for nearby predators





Best Practices

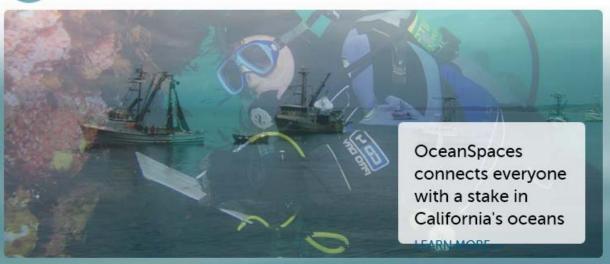
- Plan ahead
- Avoid species that must be discarded
- Use gear suited to the size of fish targeted
- Land fish quickly
- Minimize handling
- Use release device if necessary
- Time is of the essence –
 Release fish as fast as possible!



Collaboration with Anglers is Essential



WELCOME CONNECT LEARN EXPLORE DATA



join oceanspaces!

OceanSpaces is an online community that fosters new knowledge of ocean health. Here you'll find opportunities to communicate, create and share information among everyone with a stake in the health of California's oceans — scientists, fishermen, policymakers and citizens.

A shared body of scientific

monitoring in action



Ocean Spaces: Connecting Communities

- » In the media
- » Facing West: The OceanSpaces

Diag

featured members



State of the
California Central
Coast Symposium



Dave Rudie



Jan Freiwald



Cheryl Chen



Ed Parnell MEMBER »