

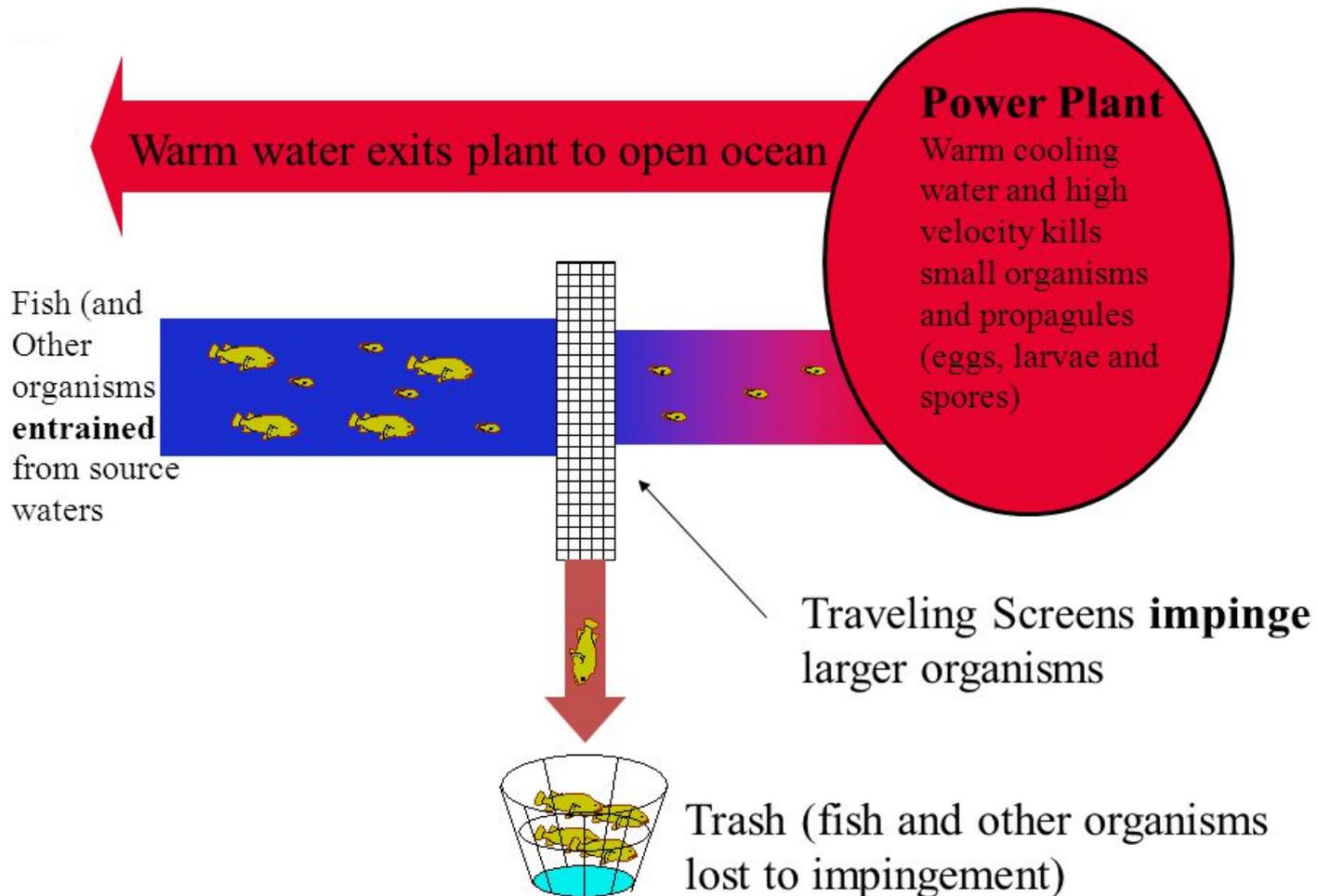


Once-Through Cooling Interim Mitigation Program Update

Cyndi Dawson
Marine Protection Area Policy Advisor
Ocean Protection Council Meeting
November 1, 2017

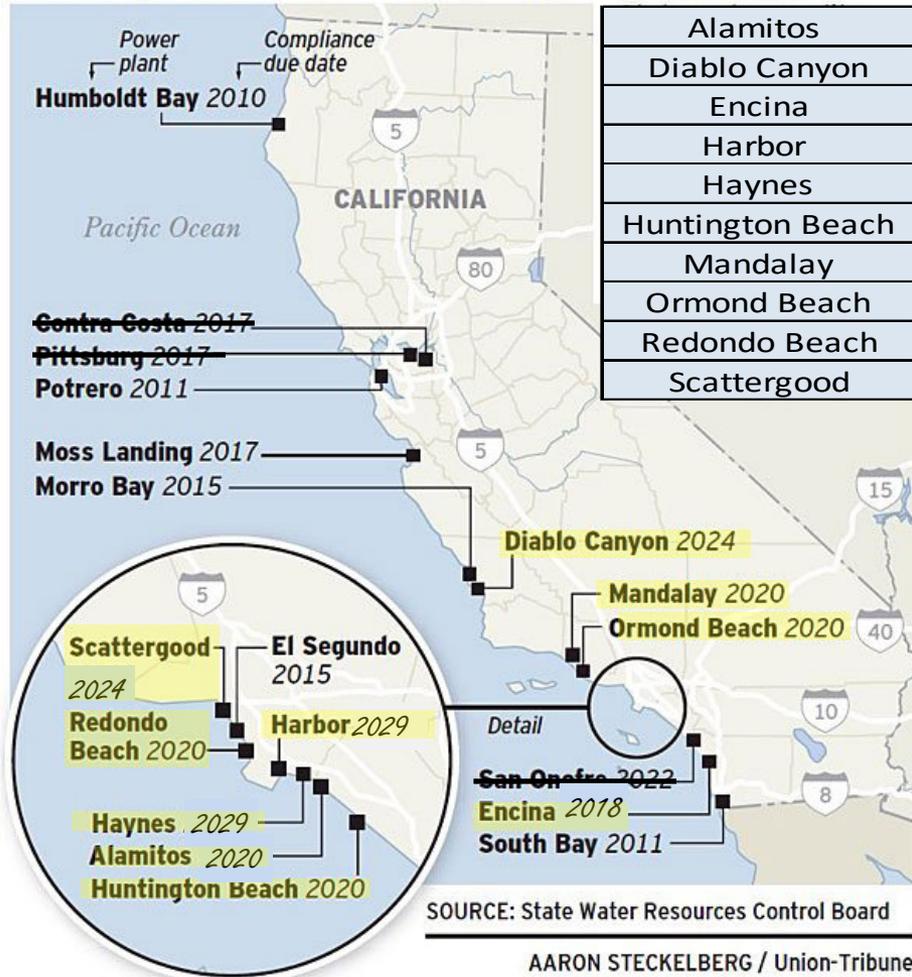
Case Study: Cooling

Thermal Effects, Impingement and Entrainment



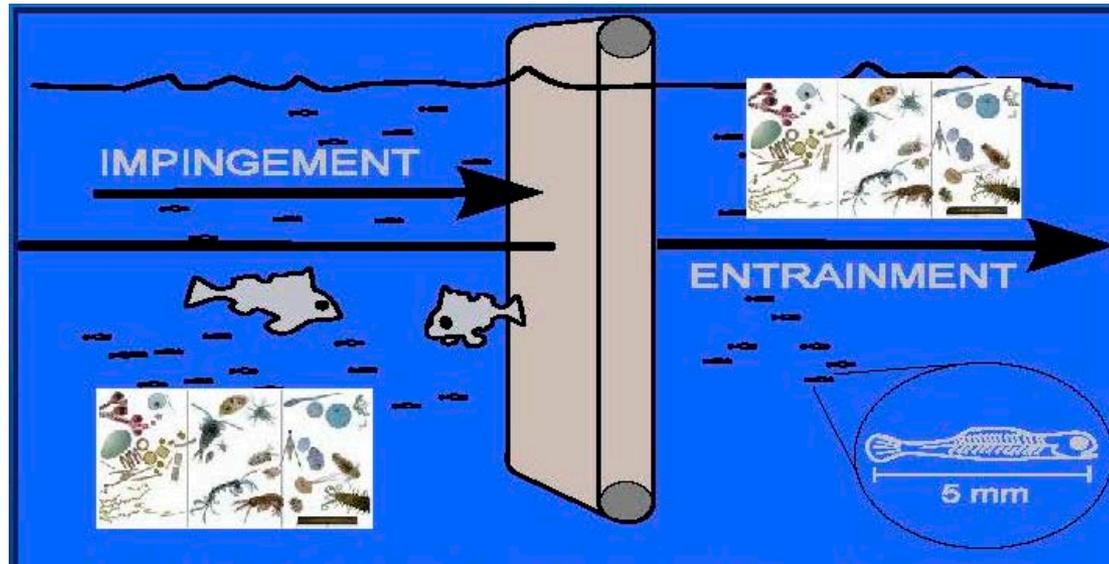
Adopted Policy Directives

ONCE-THROUGH COOLING POWER PLANTS IN CALIFORNIA



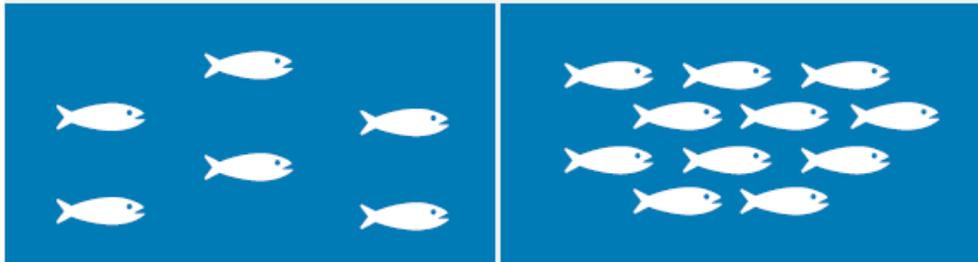
- SWRCB’s OTC Policy directs the fees to support “mitigation projects directed toward increases in marine life associated with the State’s Marine Protected Areas in the geographic region of the facility.”
- “...each year 5.4 million dollars (\$5,400,000) of the Funds shall be provided to the OPC for mitigation of impacts to the State Marine Protected Areas”

MPA Nexus with OTC Impacts



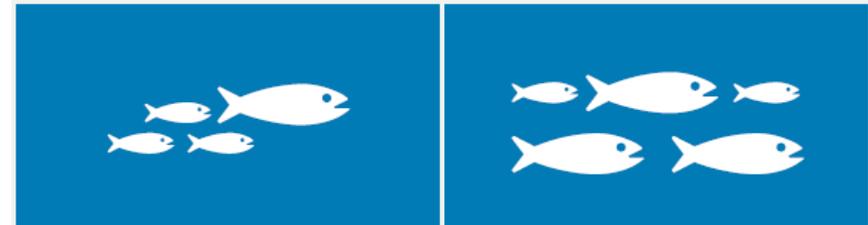
HIGHER DENSITY = MORE SEA LIFE

Density is the total number of organisms in a given area.

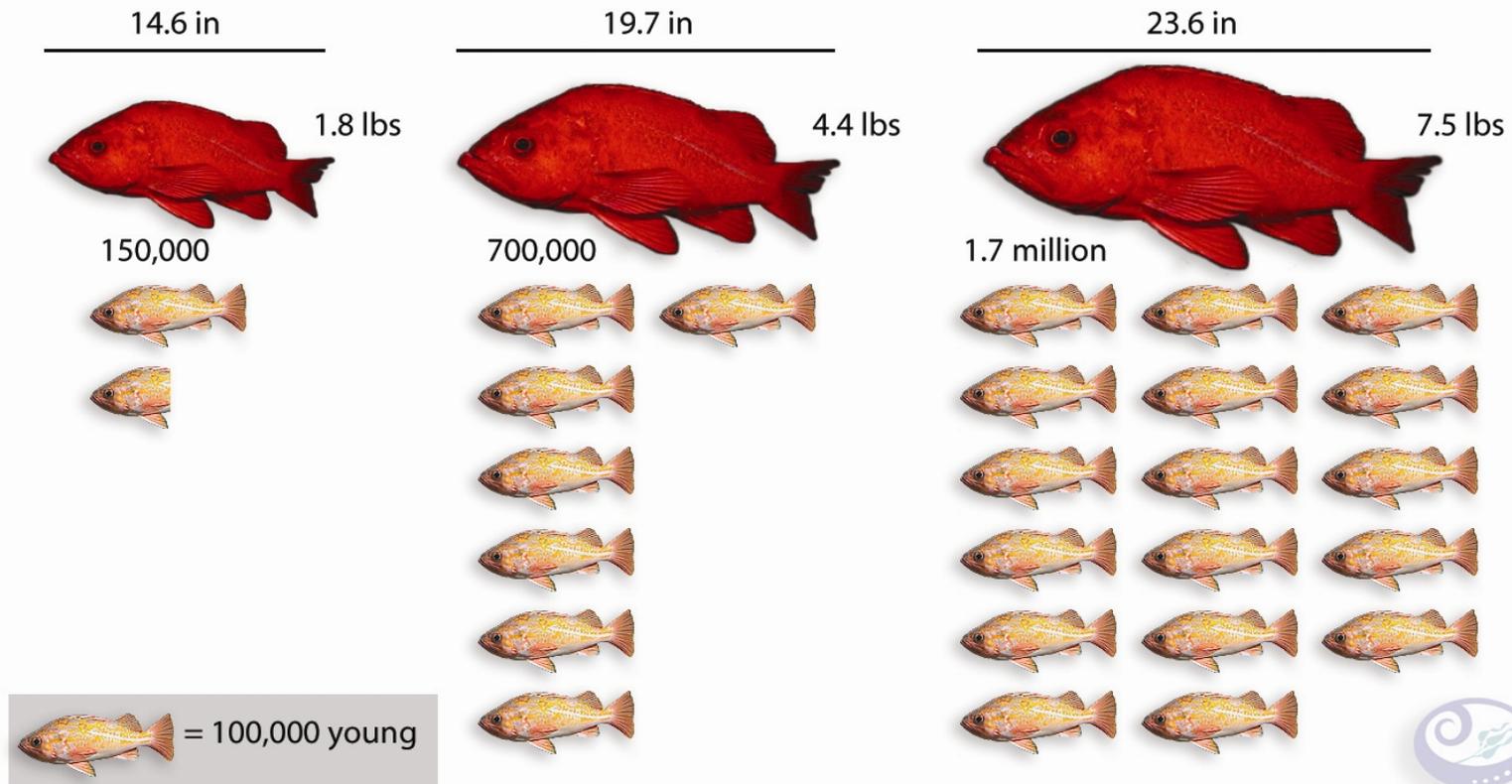


INCREASES IN BIOMASS = BIGGER AND MORE ABUNDANT SEA LIFE

Biomass is the total weight of organisms in a given area, in terms of both size *and* number of organisms.

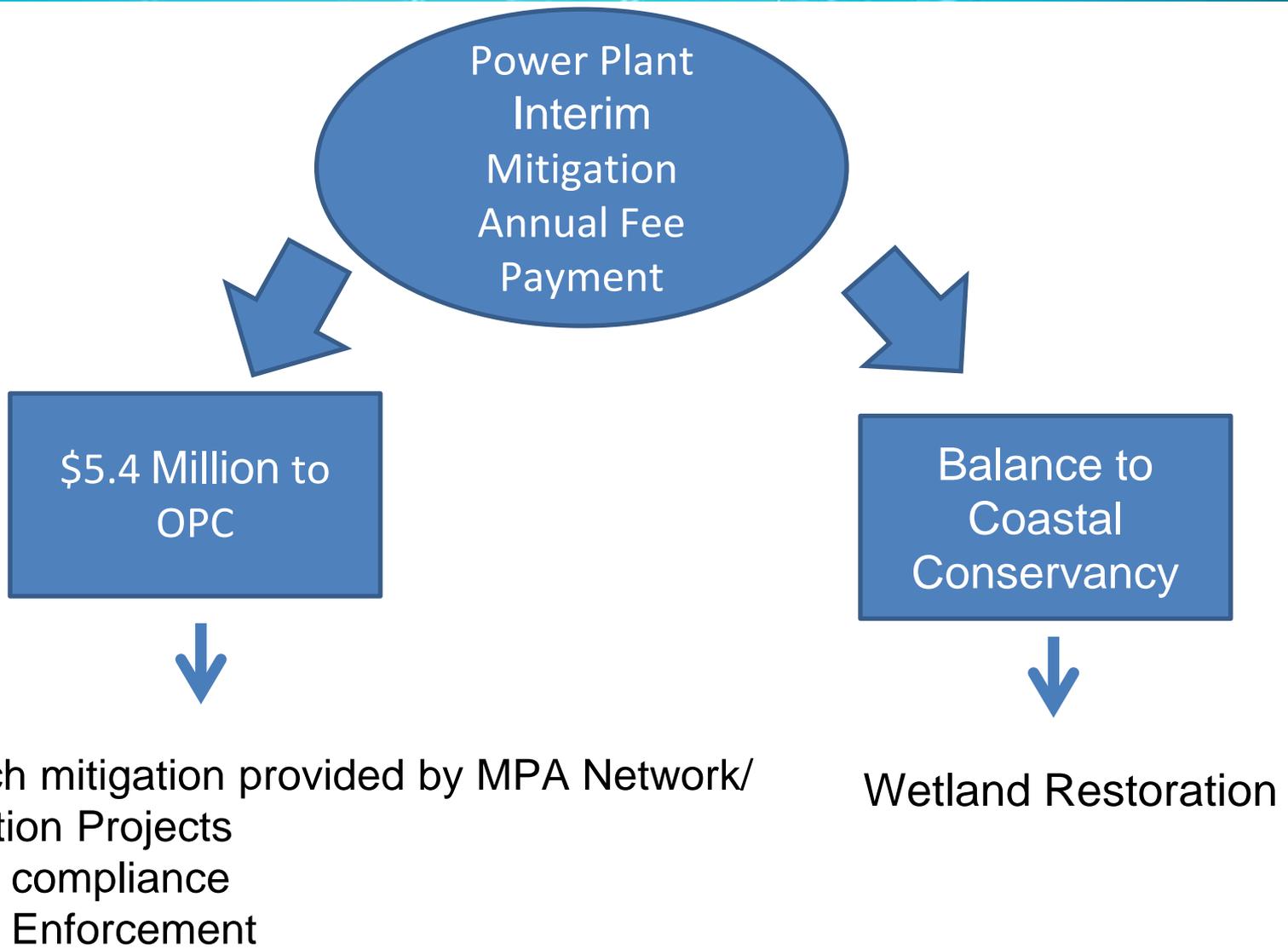


MPA Nexus with OTC Impacts



Average numbers of young produced by three different sizes of vermilion rockfish.
Data: Love et al. (1990) NOAA Technical Report

Annual Process for Fee Allocation



Next Steps

OTC Interim Mitigation Program

Finalize Approach

Convene Expert
Science Panel

Create Guidelines

Public Comment
& Council
Consideration
July 2018

California Ocean Protection Council

OPC  **SAT**

Science Advisory Team

Summary of OTC Program

- Ensuring MPAs have the greatest chance to accrue their maximum range of ecological benefits
- Funding restoration projects that are scientifically proven to increase marine wildlife
- Identifying opportunities within agencies to improve enforcement and compliance that are publically vetted