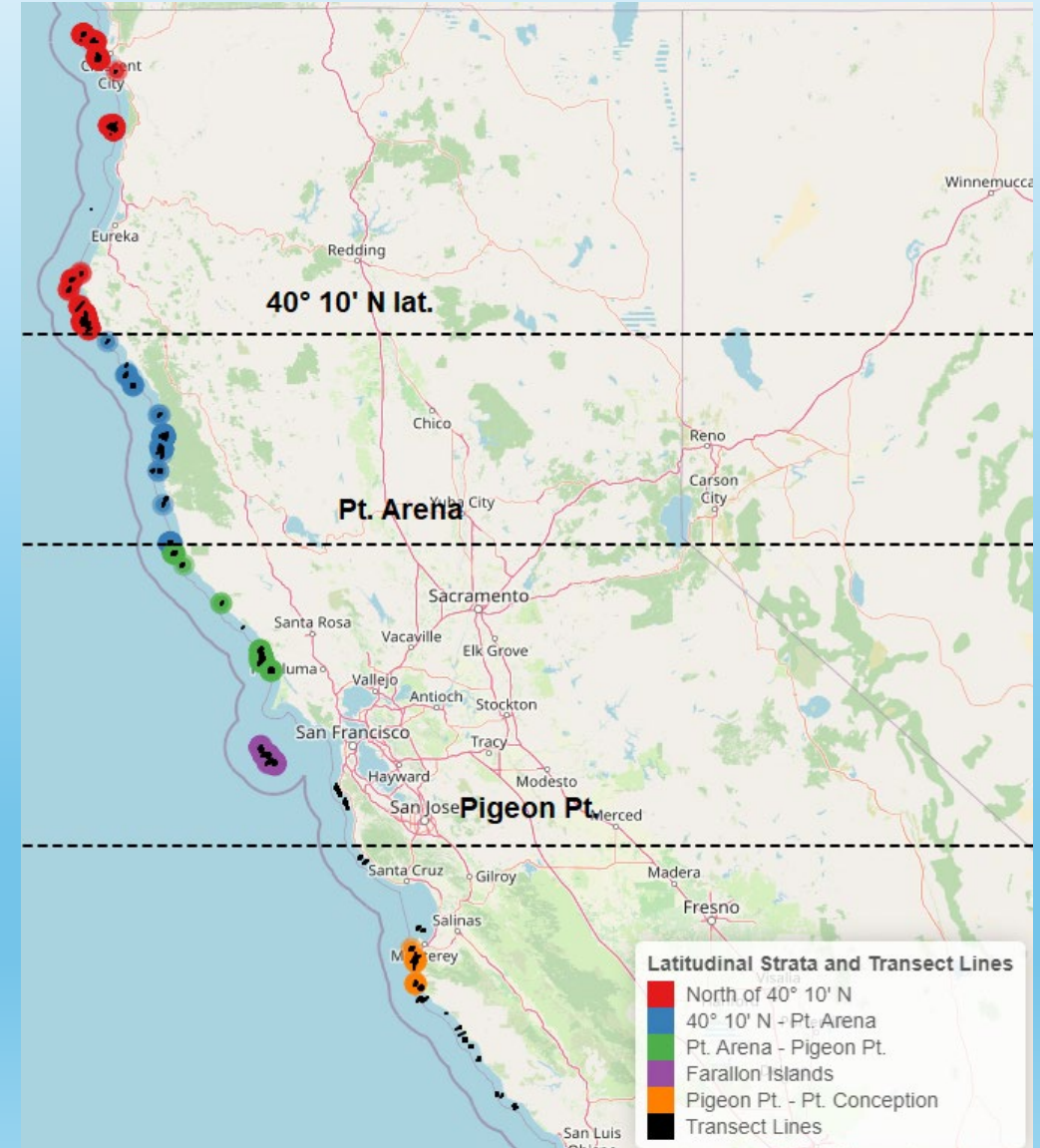


Overview of ROV Design-based Estimates of Abundance for Quillback Rockfish in California

Dr. John Budrick, CDFW

Stratification

- Focused on core depth distribution of quillback rockfish in 20 to 90 m from OR/CA Border to Point Sur
- Density and length analyzed by depth and area to inform stratification schemes
- Five alternative stratification schemes from state-wide to five areas



Expansion

- Area from California Seafloor Mapping Program (CSMP) for State waters within 3 miles of shore
- Coastal and Marine Ecological Classification Standard (CMECS) for State and Federal waters
- Expansion providing estimates of abundance for five alternative stratification schemes from state-wide to five areas
- More refined estimates of abundance over space



Estimates of Abundance

- Aggregating across strata and protection-MPA + Reference
- Bootstrapping of 95% CI
- Explored variance and CI among stratification schemes
- Absolute estimates can be compared over time like indices
- Comparisons of scale to current assessment

