

California Scorpionfish 2017 Stock Assessment

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STAR Panel meeting July 24-28, 2017

Background and Biology

Removals

Index Data

Composition Data

Background and Biology

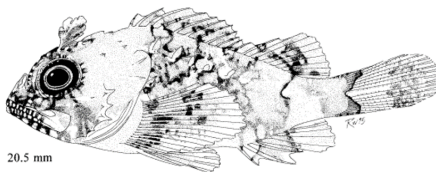
California scorpionfish (*Scorpaena guttata*)

- ✓ Distributed from central California to Punta Eugenia, Baja California Sur, Mexico
- ✓ Rarely observed north of Pt. Conception
- ✓ Observed from the intertidal to 600 ft, preferred depth range from 20-450 ft
- ✓ Demersal, found over both hard and soft bottom
- ✓ Venomous dorsal, anal and pelvic spines



California scorpionfish (*Scorpaena guttata*)

- ✓ Migration to spawning grounds, exhibit explosive breeding behavior just before dawn
- ✓ Exhibit aggregating behavior (spawning and non-spawning aggregations)
- ✓ External fertilization, females produce eggs in a hollow gelaenous matrix
- ✓ Eggs hatch after about 5 days
- ✓ Juveniles settle at less than 2cm

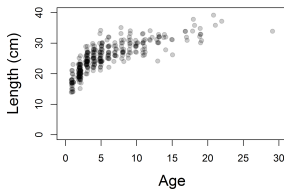


⁰Line drawing from CalCOFI Atlas 33, pg. 789 Figure 26

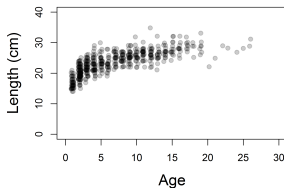
Length-at-age

Length-at-age

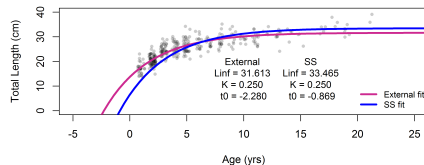
Female



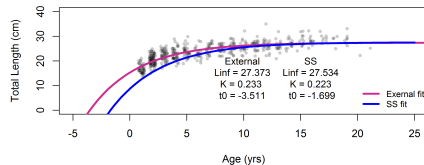
Male



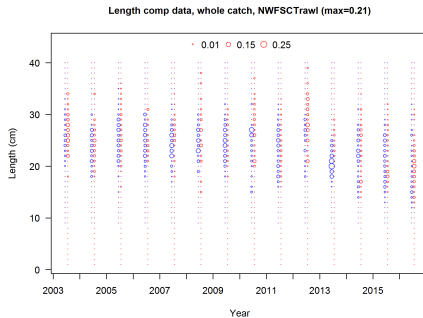
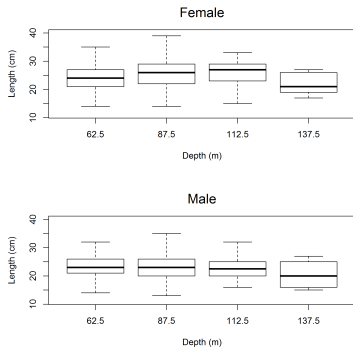
Female



Male



Length-at-age



Maturity and Fecundity

Weight-at-length

Natural mortality

Steepness: Density-Dependent Recruitment Compensation

Removals

Total Removals

Total Removals

Total Removals

Commercial Landings by Fleet

Recreational Landings by Fleet

Index Data

Summary of Data Sources

Recreational Private Boat Index

Recreational Party/Charter Boat Index (Logbook)

Recreational Dead Discard Index

Recreational Party/Charter Retained Catch Index

Sanitation Districts Survey Index

Sanitation Districts Survey Index

Sanitation Districts Survey Index

NWFSC Trawl Survey Index

Gillnet Survey Index

Southern California Bight Trawl Survey Index

Composition Data

Dat1

Summary of Data used in the 2017 Assessment