



# *Longfin Squid*

*August 2020*

# Overview

- Center/Assessment
- Current Specifications
- Info Doc Highlights
- FPR Highlights
- Staff recommendation
- SSC

# Assessment

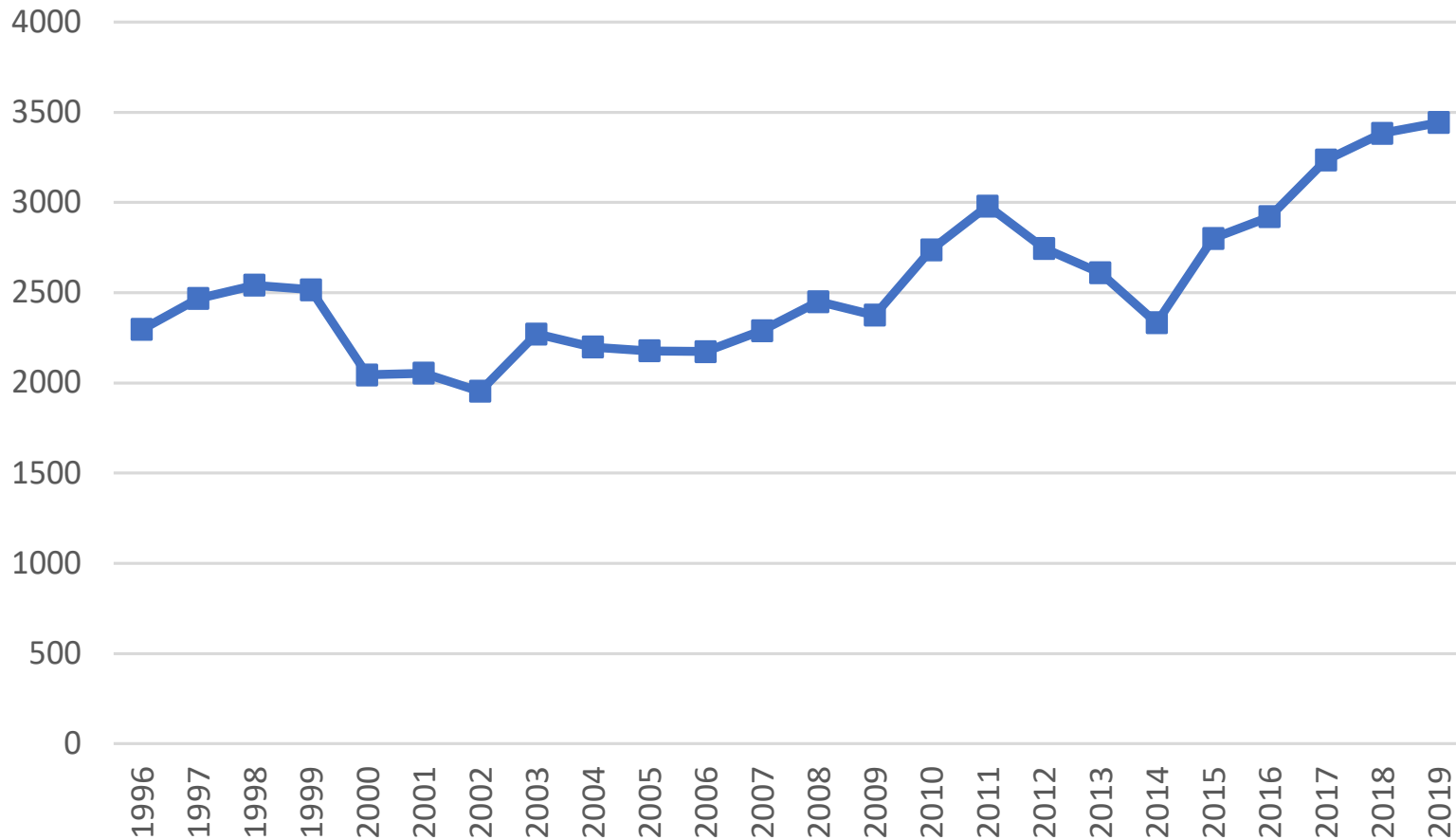
- Annual averaging may miss fluctuations of sub-year cohorts
- Not overfished either way, but biomass (based on surveys) looks much higher in fall than spring.
- Next assessment will continue to explore sub-year assessment/management.

# Current Specifications

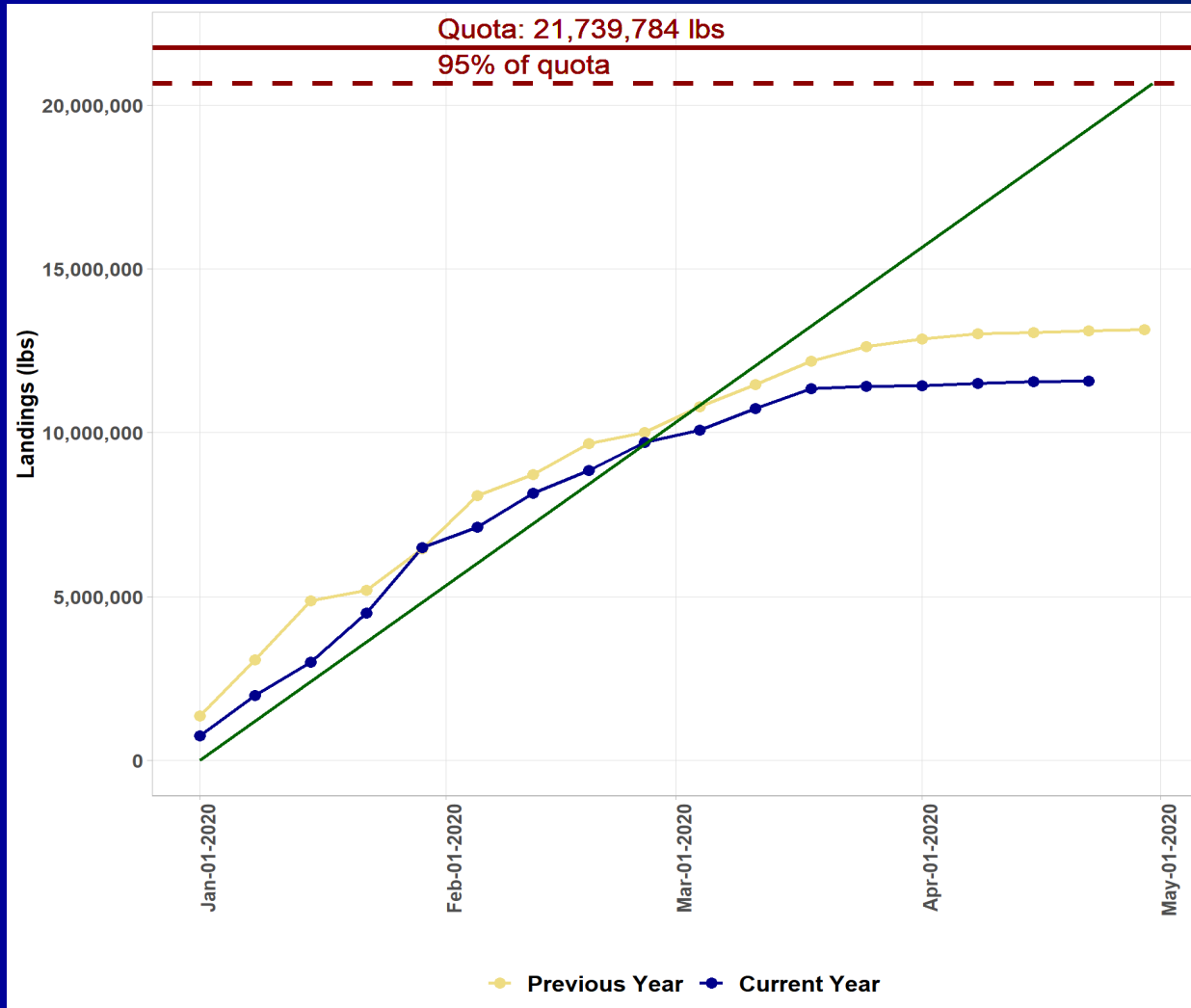
- ABC is 23,400 MT, with a commercial quota of 22,932 MT (discards)
  - Catch in the year of the highest exploitation ratio (1993) from the 2010 longfin squid benchmark assessment. (since 1987)  
[Now 23,950 (revised discards)]
- 4-month Trimesters - 43% (Jan-Apr), 17% (May-Aug), and 40% (Sept-Dec)
  - Rollover

# Info Doc Highlights

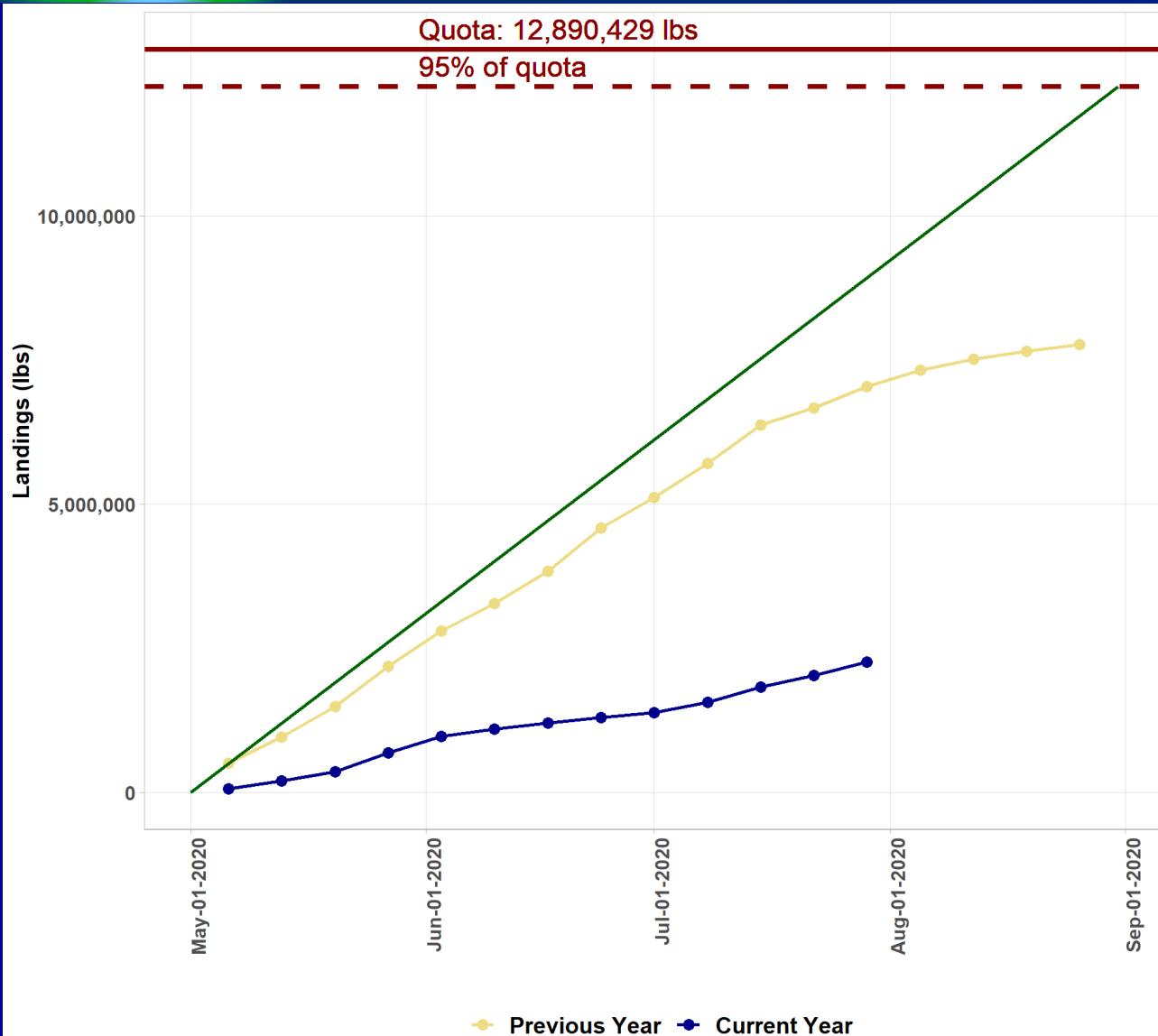
Longfin Inflation-Adjusted Price \$/MT



# Info Doc Highlights



# Info Doc Highlights



# FPR Highlights

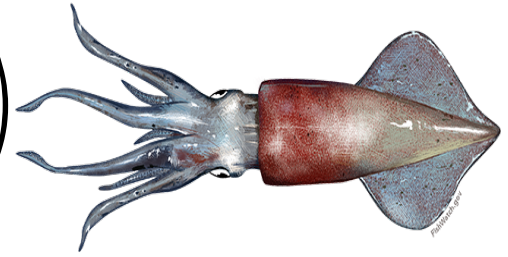
- Shifting thermal habitat
- Tariffs
- Regulation limitations
- COVID-19 affecting everything in current year
- Demand good through 2019



# Staff Recommendation

- Staff supports continued development of sub-annual assessment/management approaches to longfin squid, but at this time recommends the current annual longfin squid ABC of 23,400 MT for 2021-2023.
  - Lots of noise (biomass or landings)
  - SSC...

# Longfin Squid (OFL not estimable)



- **Highlights**

- Level 3 assessment laid basis for a revised model that acknowledges complex patterns of growth and recruitment between summer and winter periods.
- Possible differences in fisheries supportable by seasonal patterns
- No basis to change previous ABC of **23,400 mt**

- **Uncertainties**

- Differences in productivity in intra-annual cohorts
- Short life span, high M, delays in data acquisition make traditional stock assessments problematic
- Range may not be fully covered in surveys
- Highly variable survey trends

- **Research**

- Improved modeling approach
- Revisions to partitioning of existing data
- Estimate age in spring and fall surveys, investigate egg production, maturation
- Investigate influence of oceanography on trends
- Consider real-time management approaches

- **Based on Best Scientific Information Available**