Socio-Economic Profile of Fisheries for Species Managed by the South Atlantic Fishery Management Council

Socioeconomic Panel Meeting

**Charleston, South Carolina**

February 2018

Purpose

- To provide comprehensive information on South Atlantic Council managed species, including:

  - Communities
  - Fishing trends
  - Imports
  - Infrastructure
  - Safety

- Enhancing the socioeconomic sections of the FEP to provide a more comprehensive understanding of the human environment.

Section 1: Chapters by FMPs
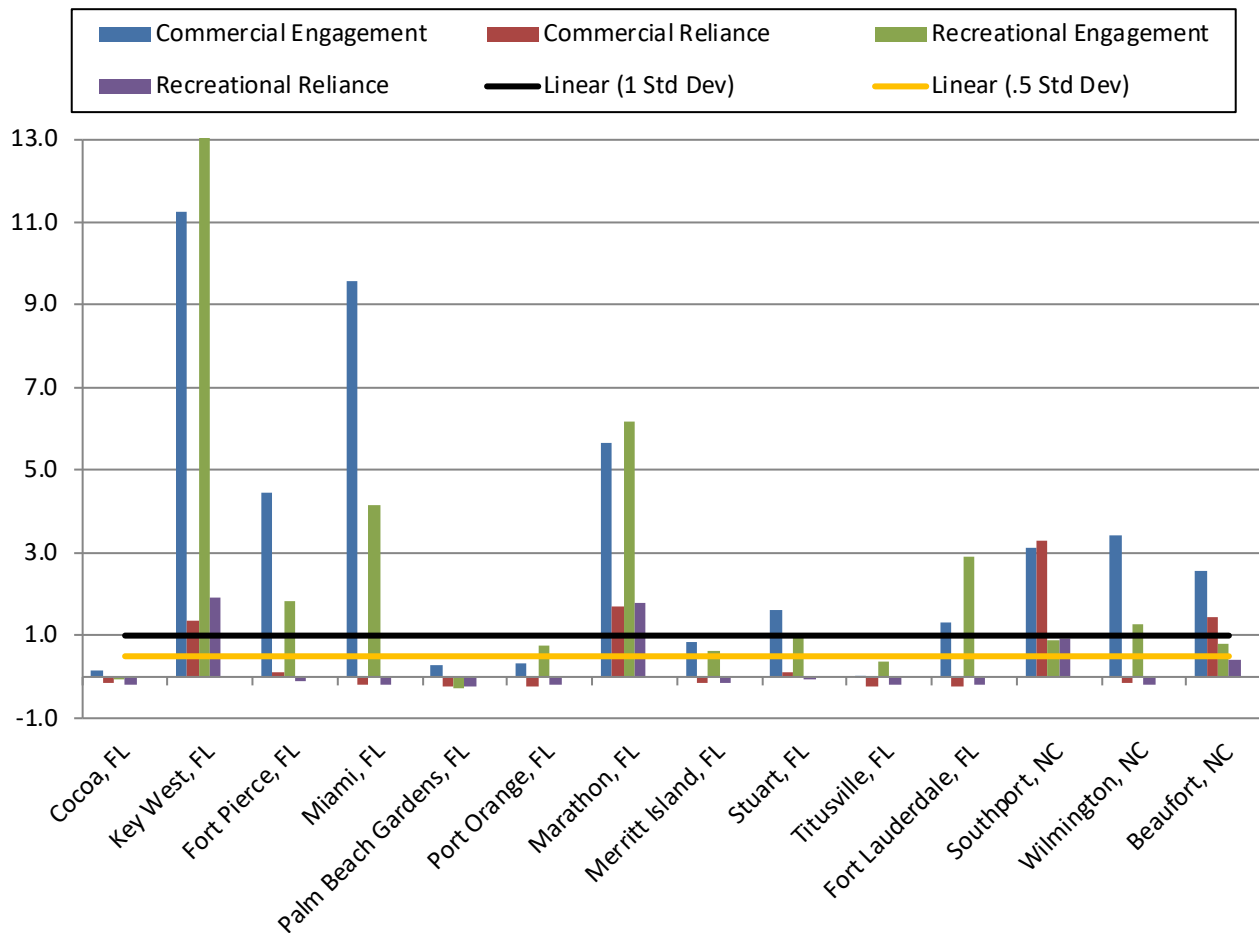
Description of Major Fishing Communities
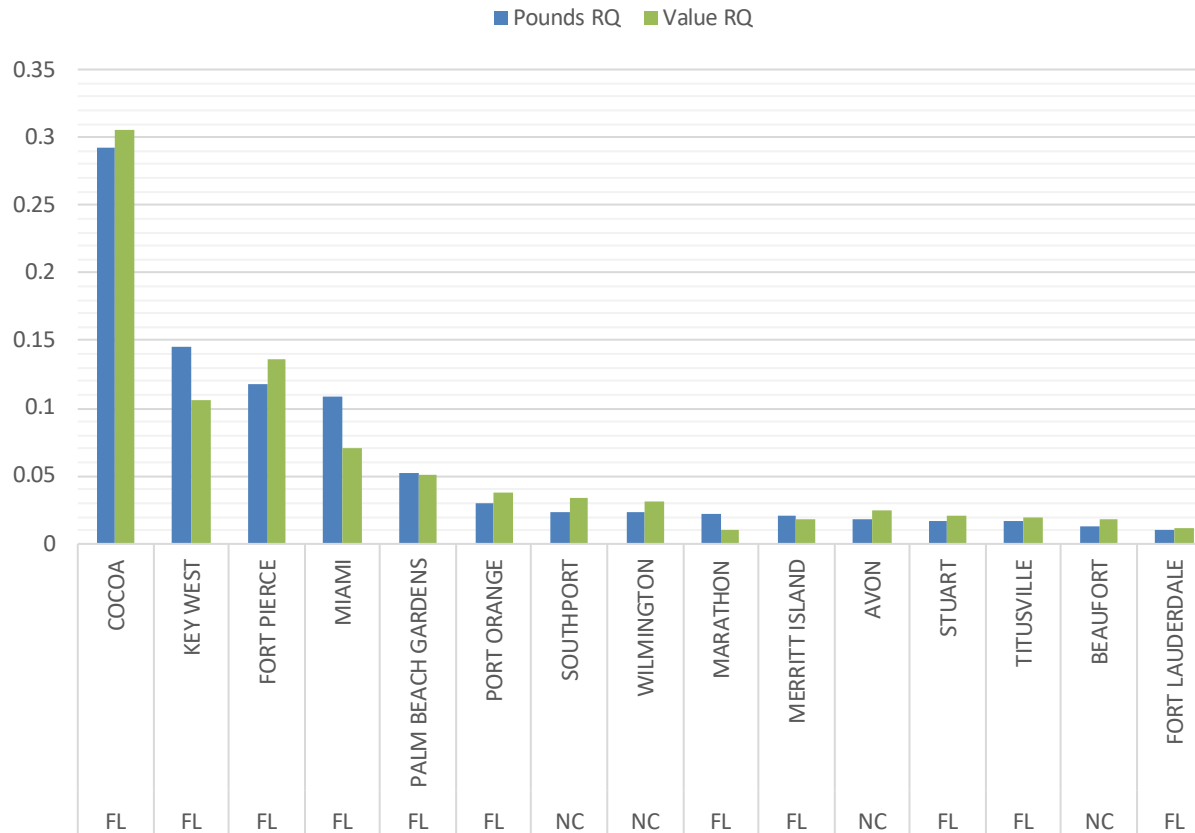
Top fifteen South Atlantic communities ranked by pounds and value regional quotient (RQ) of king mackerel.

Source*: SERO, Community ALS*

Section 1: Chapters by FMPs

Description of Major Fishing Communities

Commercial and recreational reliance and engagement for South Atlantic communities with the top regional quotients for king mackerel.

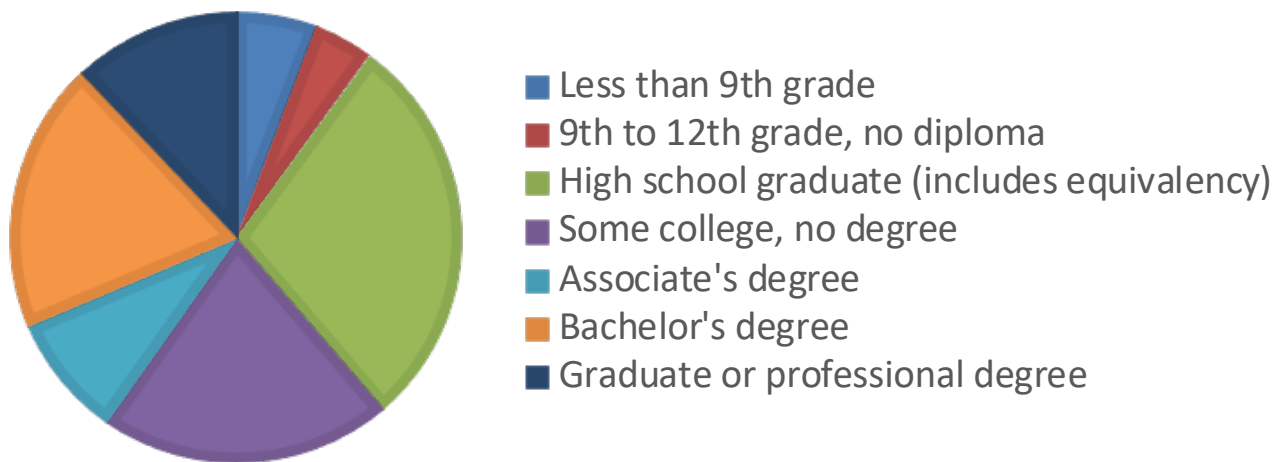*Source*: SERO Social Indicator Database

Section 1: Chapters by FMPs

Description of Major Fishing Communities

Key West

- Population: 24,649

- 52% age 40 or older

- Median Household Income: $58,494
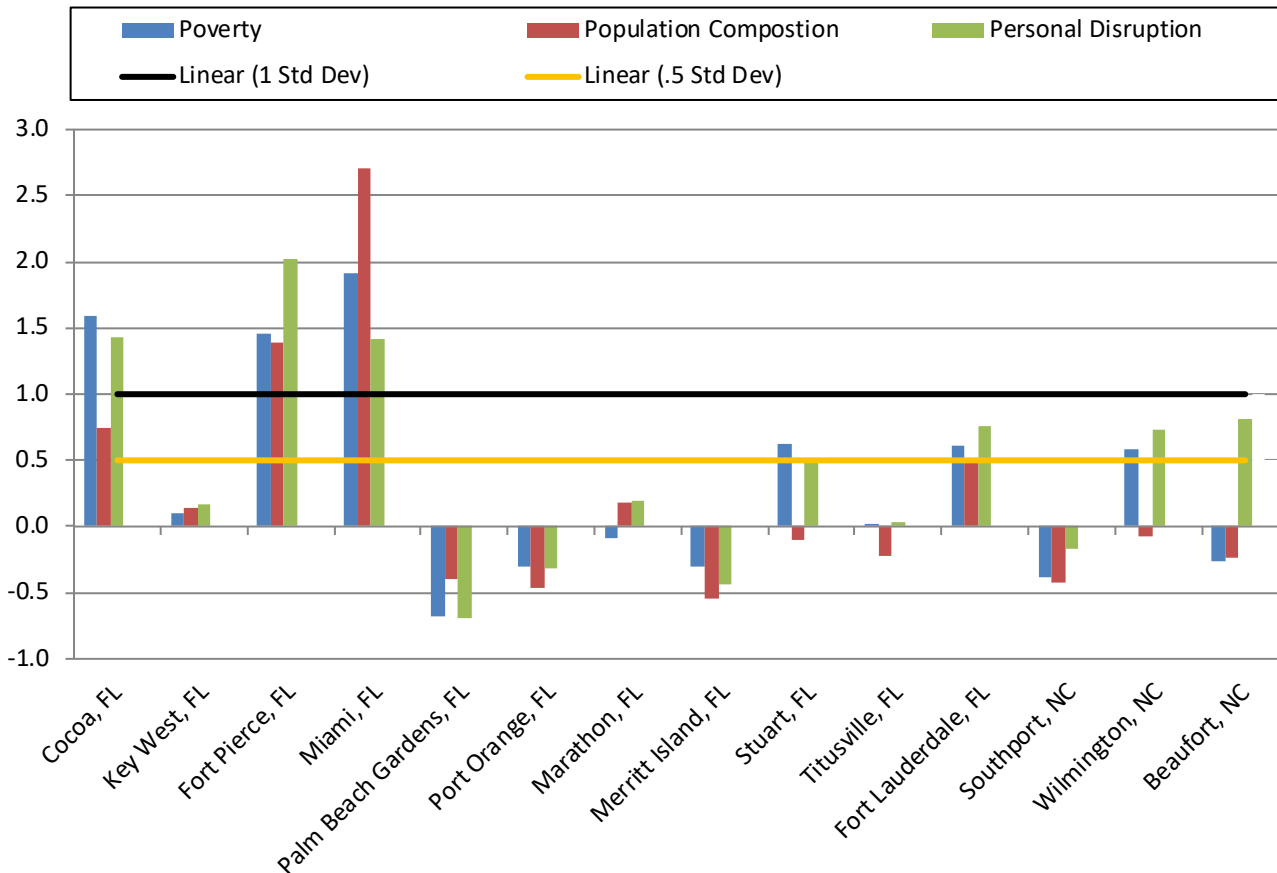

- Less than 9th grade
- 9th to 12th grade, no diploma
- High school graduate (includes equivalency)
- Some college, no degree
- Associate's degree
- Bachelor's degree
- Graduate or professional degree

Source: U.S. Census Bureau

Section 1: Chapters by FMPs

Description of Major Fishing Communities

Social vulnerability indices for fifteen South Atlantic communities with the top regional quotients for king mackerel.

Gentrification Indices:
- Retire Migration
- Urban Sprawl
- Natural Amenities
- Housing Disruption

Source: SERO Social Indicator Database

Section 1: Chapters by FMPs

- Fishing Trends
1. Effort

Year	# of vessels landing king mackerel	# of trips landing king mackerel	Total king mackerel landings	Landings of other species jointly caught w/ king mackerel	# of trips only catching other species	Landings of other species on trips w/o king mackerel
2010	277	1,710	1,859,629	692,630	1,868	3,414,763
2011	290	2,006	2,194,213	589,794	2,248	4,827,227
2012	287	2,162	1,932,385	597,163	2,074	4,289,260
2013	267	2,161	1,932,985	661,216	1,731	3,882,970
2014	251	2,055	1,923,477	615,797	1,659	3,679,388
Average	274	2,019	1,968,538	631,320	1,916	4,018,722

Commercial vessels and trips with king mackerel landings by weight (lb gw), Gulf, 2010–2014.

Source: *SEFSC SSRG Socioeconomic Panel Data.*

Section 1: Chapters by FMPs
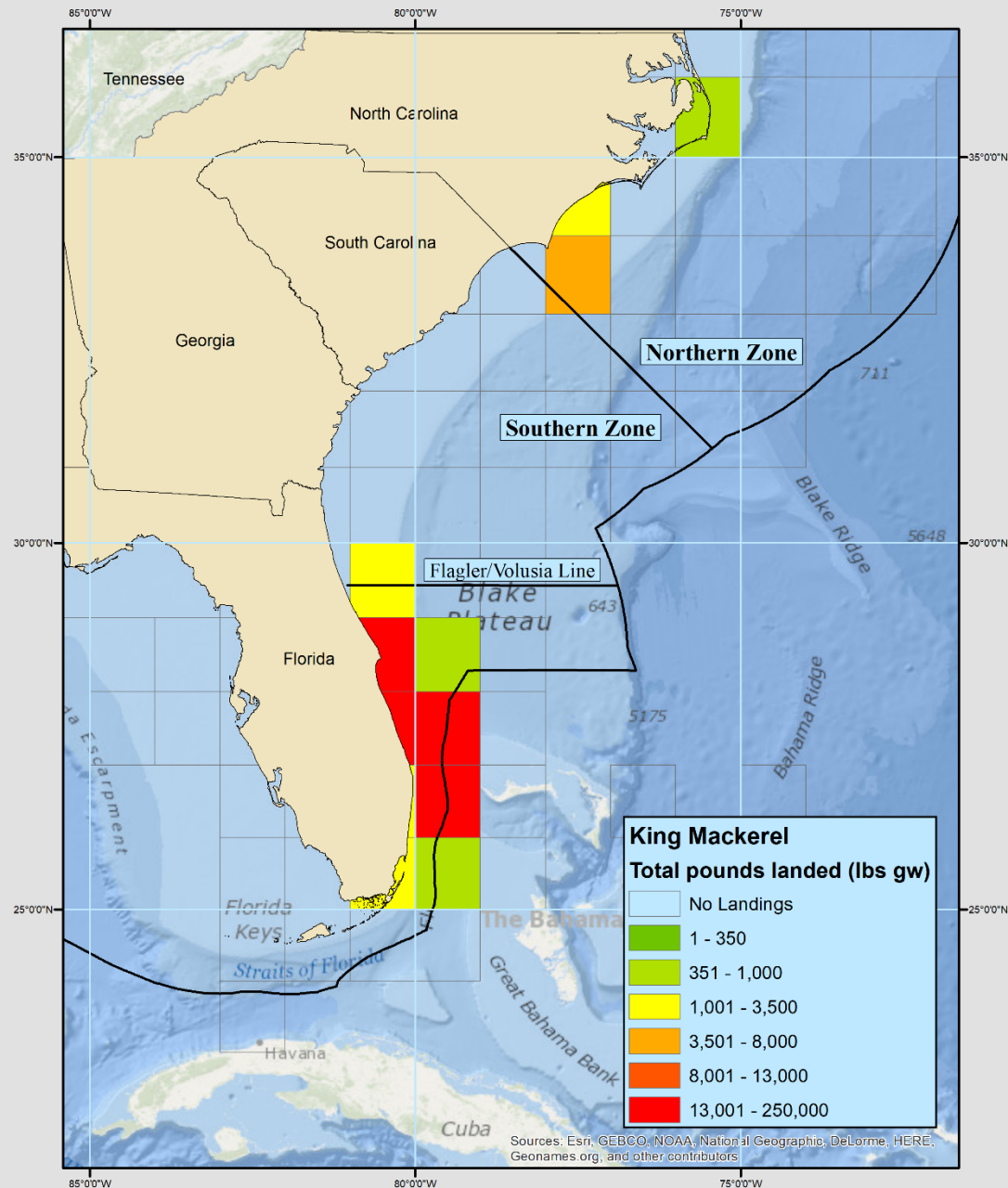
- Fishing Trends
1. Landings

Fishing Year	Atlantic Migratory Group		
	Pounds	Revenues	Price/lb
2003/04	1,860,064	$3,471,749	$1.87
2004/05	2,776,748	$5,487,732	$1.98
2005/06	2,249,711	$4,861,494	$2.16
2006/07	2,992,672	$6,041,002	$2.02
2007/08	2,664,751	$5,734,915	$2.15
2008/09	3,105,889	$6,114,044	$1.97
2009/10	3,561,139	$6,506,967	$1.83
2010/11	3,402,677	$6,118,822	$1.80
2011/12	2,052,139	$5,048,520	$2.46
2012/13	1,346,459	$3,612,517	$2.68
2013/14	1,141,601	$3,274,106	$2.87
Avg (2000-14)	2,351,642	$4,965,704	$2.11
Avg (2009-14)	2,300,803	$4,912,186	$2.13

Commercial king mackerel landings, dockside revenues, and price per pound by migratory group, 2000/01-2013/14. Revenues and price per pound are in 2014 dollars.

Source: SEFSC ACL Database

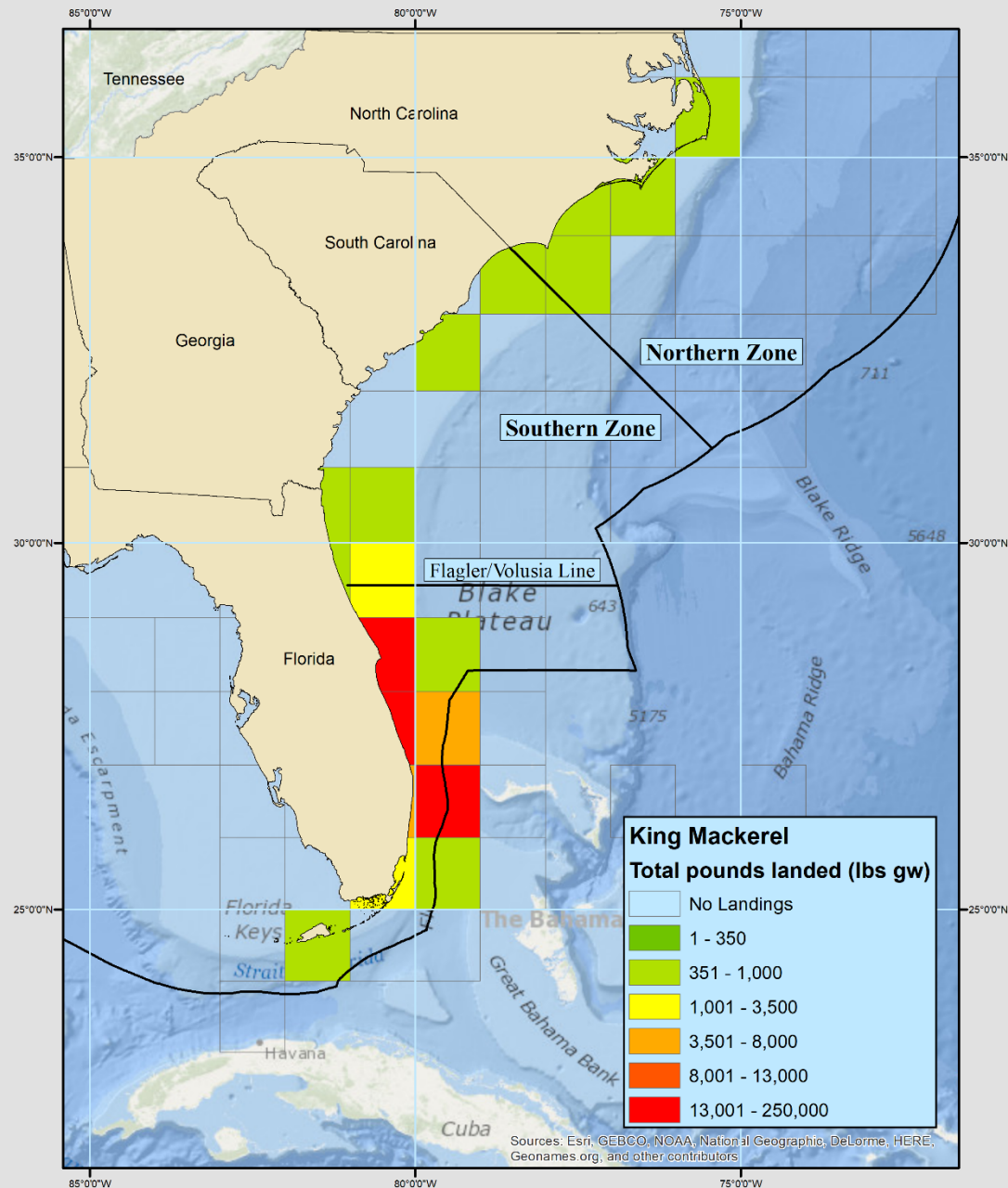- Regional/State breakdown
- By gear
- Seasonality

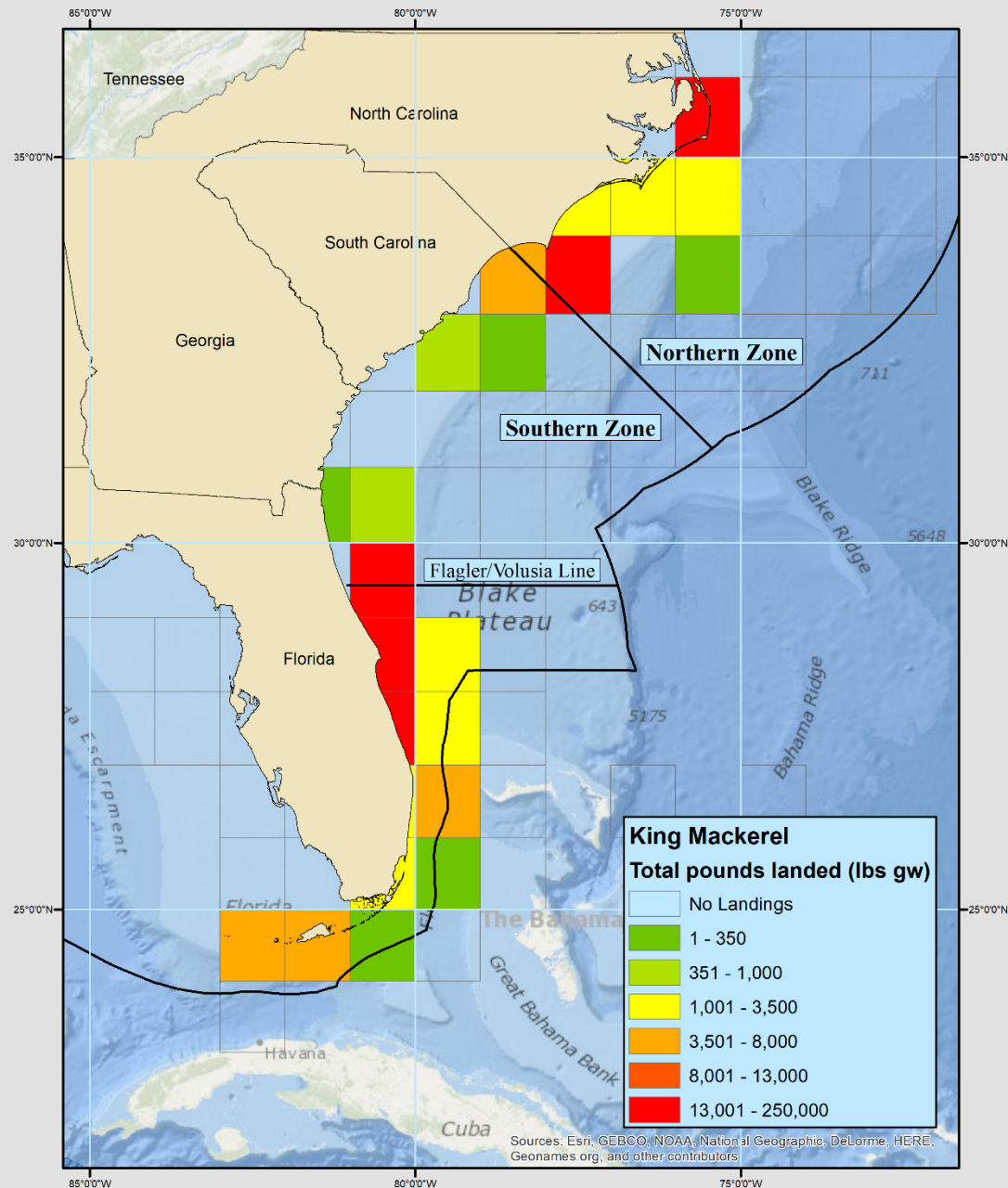**King Mackerel Total Reported Logbook Catch**
2015/2016 Season
March

Legend — King Mackerel, Total pounds landed (lbs gw):
- No Landings
- 1 - 350
- 351 - 1,000
- 1,001 - 3,500
- 3,501 - 8,000
- 8,001 - 13,000
- 13,001 - 250,000

Map labels: Tennessee, North Carolina, South Carolina, Georgia, Florida, Florida Keys, Havana, Cuba, The Bahamas, Straits of Florida, Great Bahama Bank, Bahama Ridge, Blake Ridge, Blake Plateau, Escarpment, Northern Zone, Southern Zone, Flagler/Volusia Line, 711, 5648, 643, 5175

Sources: Esri, GEBCO, NOAA, National Geographic, DeLorme, HERE, Geonames.org, and other contributors

Scale: 0, 80, 160, 320 Miles

King Mackerel Total Reported Logbook Catch
2015/2016 Season
April - September

King Mackerel
Total pounds landed (lbs gw)

No Landings
1 - 350
351 - 1,000
1,001 - 3,500
3,501 - 8,000
8,001 - 13,000
13,001 - 250,000

Northern Zone

Southern Zone

Flagler/Volusia Line

Sources: Esri, GEBCO, NOAA, National Geographic, DeLorme, HERE, Geonames.org, and other contributors

0   80   160   320 Miles

King Mackerel Total Reported Logbook Catch
2015/2016 Season
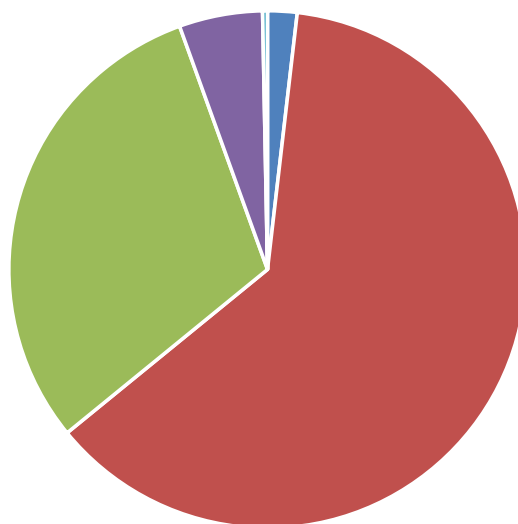October - February

Section 1: Chapters by FMPs

- Fishing Trends
- Vessel Characteristics
  - Average age of commercial king mackerel vessels.
    - 2006: 20 years
    - 2016: 24 years
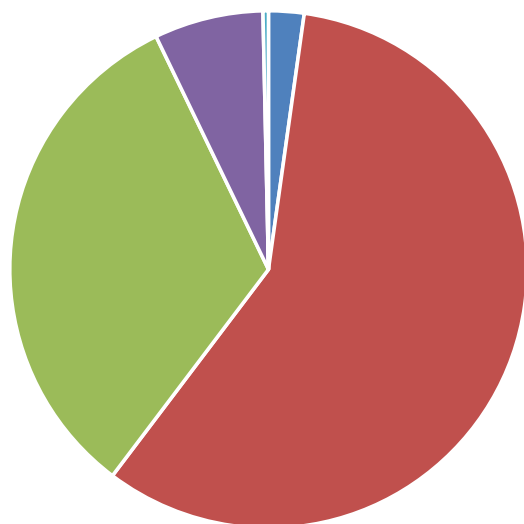
2006

2016

Commercial King Mackerel Vessels by Size

Source: SATL Logbook Data

- < 20ft
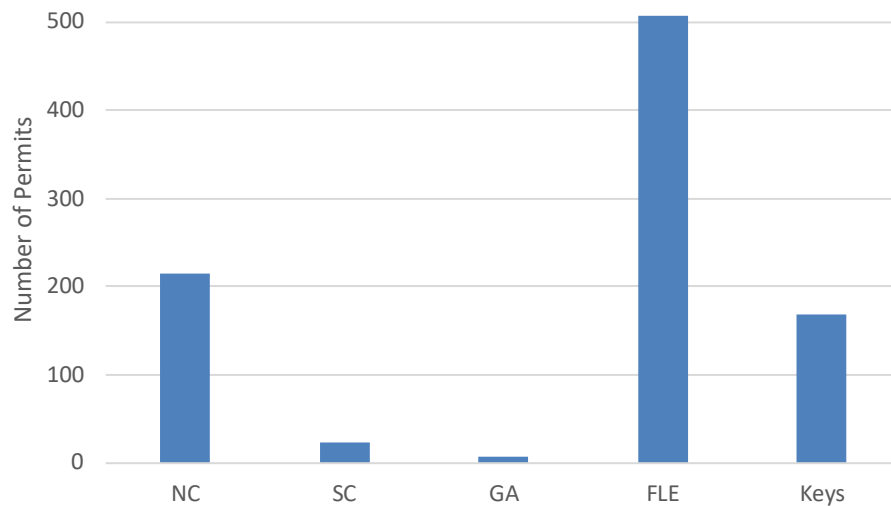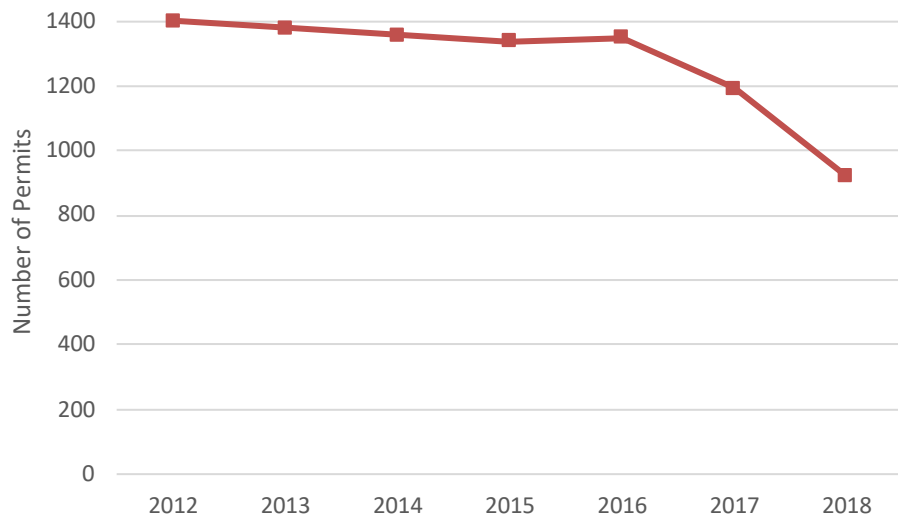- 20ft - 29ft
- 30ft - 39ft
- 40ft - 49ft
- >= 50ft

Section 1: Chapters by FMPs

- Fishing Trends
1. SAFMC-related Permits

Limited Access Commercial King Mackerel Permits by year (2012-2018) and by state (2018).
Source*: SERO Permits Page*

Section 1: Chapters by FMPs

- Imports

  – In 2012, imports of *all* mackerel species (fresh, frozen, salted, smoked) were approximately 44.18 million pounds valued at approximately $64.97 million (2014 dollars).

  – Domestic production: 138.03 mp (all mackerel) valued at approximately $37.97 million.

  Source*: NOAA Foreign Trade Query*

Question for Discussion

- The intent of this report is to provide a "snapshot" of SAFMC managed fisheries. What sort of timeframe would be sufficient? Is the most recent 5 years sufficient?

- Which FMPs should take priority?

Section 2: Chapters by Region

* Only for stations in the South Atlantic region.

- Description of Major Fishing Communities
  - As identified in the FMP chapters.

- Fishing Trends
  - Same as FMP chapters, but summarized by state.

Section 2: Chapters by Region

- Infrastructure

  - Mapping of dealer locations vs. homeport locations.

  - Fishery Performance Reports – qualitative discussion of fishability.

  - Other?

Section 2: Chapters by Region

- Safety at Sea

  - **Investigation data**: Casualty summary information for USCG investigations involving commercial fishing vessel casualties, personnel injuries or pollution.

  - **Events data** : identifies a series of events making up the casualty of commercial fishing vessels.

  - **PCAS data**: personnel casualty and injuries data on commercial fishing vessel and drive trips.

  - **Pollution**: spill data records for commercial fishing vessels.

  - *Source: Coast Guard Analytics CGBI cubes system*

Questions for Discussion

- Is there other readily available (i.e. no primary research required) data sources that could be used to show the distribution of fishing infrastructure?

- Is there other readily available information not included in the outline that could help better describe the social and economic characteristics of SAFMC managed fisheries?

- Are there another analyses that could provide insight into the social and economic characteristics of SAFMC managed fisheries?