South Atlantic Deepwater Longline Survey (SADL)

- Methodology
- Results - 2020 vs 2021
  - Sample sizes
  - Species-specific catches
  - Spatial distribution of catches

South Atlantic Deepwater Longline Survey (SADL)

Survey methodology

- NC to FL Keys
- 75 - 366 m
- Stratified by depth (75-146 and 146-366 m) and latitude (one-degree bands)
- Gear
  - 3-mile mainline (4-mile in 2020)
  - 150 hooks per mile
  - 12/0 offset circle hooks
  - Bait = squid (2-inch squares)
- Data collection at sea by NMFS observers

South Atlantic Deepwater Longline Survey (SADL)

Survey methodology

- Site selection - three site types
  - Random
  - Universe random
  - Captain's choice
- Shallow cells - two random, three universe random, two captain's choice
- Deep cells - two random, two universe random, three captain's choice

South Atlantic Deepwater Longline Survey (SADL)

- 2020
  - Industry participants (n = 2)
    contracted by survey partner SCDNR
    - One NC, SC, & GA
    - One FL

- 2021
  - Industry participants (n = 4)
    contracted by survey partner SCDNR
    - One in NC
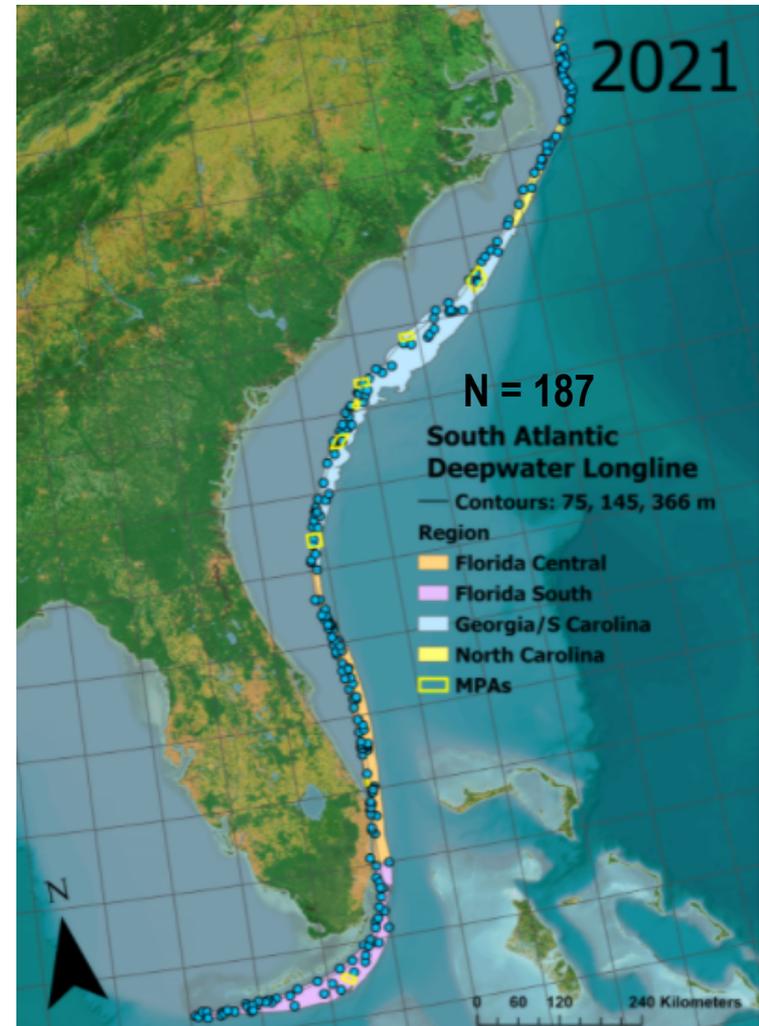   - One in SC
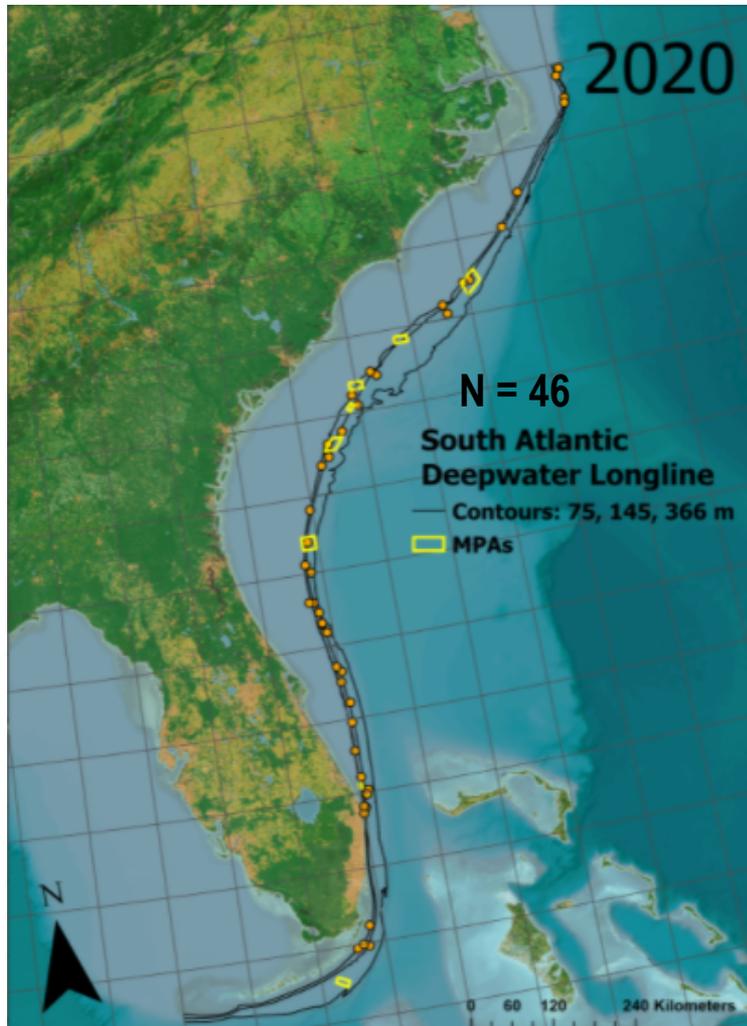   - Two in FL

South Atlantic Deepwater Longline Survey (SADL)

- 2020
  - Industry participants (n = 2) contracted by survey partner SCDNR
    - One NC, SC, & GA
    - One FL

- 2021
  - Industry participants (n = 4) contracted by survey partner SCDNR
    - One in NC
    - One in SC
    - Two in FL

Results - 2020 vs 2021

Results - 2020 vs 2021 - teleosts

Species	Number caught - 2020	Number caught - 2021	Frequency - 2020	Frequency - 2021
Blueline Tilefish	38	1371	17.39	25.13
Tilefish Golden	166	898	21.74	24.60
Snowy Grouper	29	229	17.39	27.27
Almaco Jack	23	134	13.04	16.04
Mutton Snapper	36	82	15.22	9.09
Red Snapper	11	73	13.04	9.09
Red Porgy	14	58	8.70	6.95
Greater Amberjack	5	31	10.87	5.88
Blackline Tilefish	1	26	2.17	1.60
Gag Grouper	7	18	10.87	5.35
Yellowedge Grouper	5	13	4.35	3.74

Results - 2020 vs 2021 - sharks

SPECIES_NAME	2020 Abundance	2021 Abundance	2020 FO	2021 FO
Dogfish		168	0.00	5.88
Smooth Dogfish		50	0.00	5.35
Atlantic Sharpnose Shark	116	34	26.09	8.02
Roughskin Dogfish	2	24	4.35	5.88
Sandbar Shark	11	23	21.74	9.63
Silky Shark	11	20	15.22	4.81
Scalloped Hammerhead Shark	8	19	13.04	5.88
Shortspine Dogfish	8	17	2.17	2.67
Tiger Shark	15	14	19.57	4.81
Night Shark	2	11	4.35	5.35
Chain Catshark		9	0.00	2.67
Dusky Shark		5	0.00	2.14
Sharpnose Sevengillshark		3	0.00	1.60
Blacknose Shark		3	0.00	0.53
Great Hammerhead Shark		3	0.00	0.53
Bignose Shark	1	1	2.17	0.53
Blotched Catshark		1	0.00	0.53
Shortfin Mako Shark		1	0.00	0.53
Requiem Shark	1		2.17	0.00

2021

South Atlantic
Deepwater Longline

Blueline Tilefish
CPUE100
  ● ≤5.0
  ● ≤15.0
  ⬤ ≤36.0
— Contours: 75, 145, 366 m
▭ MPAs

0   60   120   240 Kilometers

N

South Atlantic Deepwater Longline

Golden Tilefish

CPUE100

- ≤2.0
- ≤10.0
- ≤20.0

— Contours: 75, 145, 366 m

☐ MPAs

2021

2021

**South Atlantic
Deepwater Longline**

Mutton Snapper
CPUE100
- ≤1.0
- ≤2.0
- ≤4.3
— Contours: 75, 145, 366 m
▭ MPAs

0   60   120   240 Kilometers

N

2021

South Atlantic
Deepwater Longline

Snowy Grouper
CPUE100
- ≤1.0
- ≤4.0
- ≤8.2
— Contours: 75, 145, 366 m
☐ MPAs