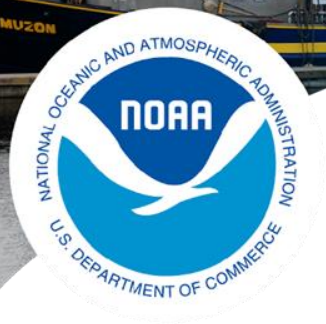




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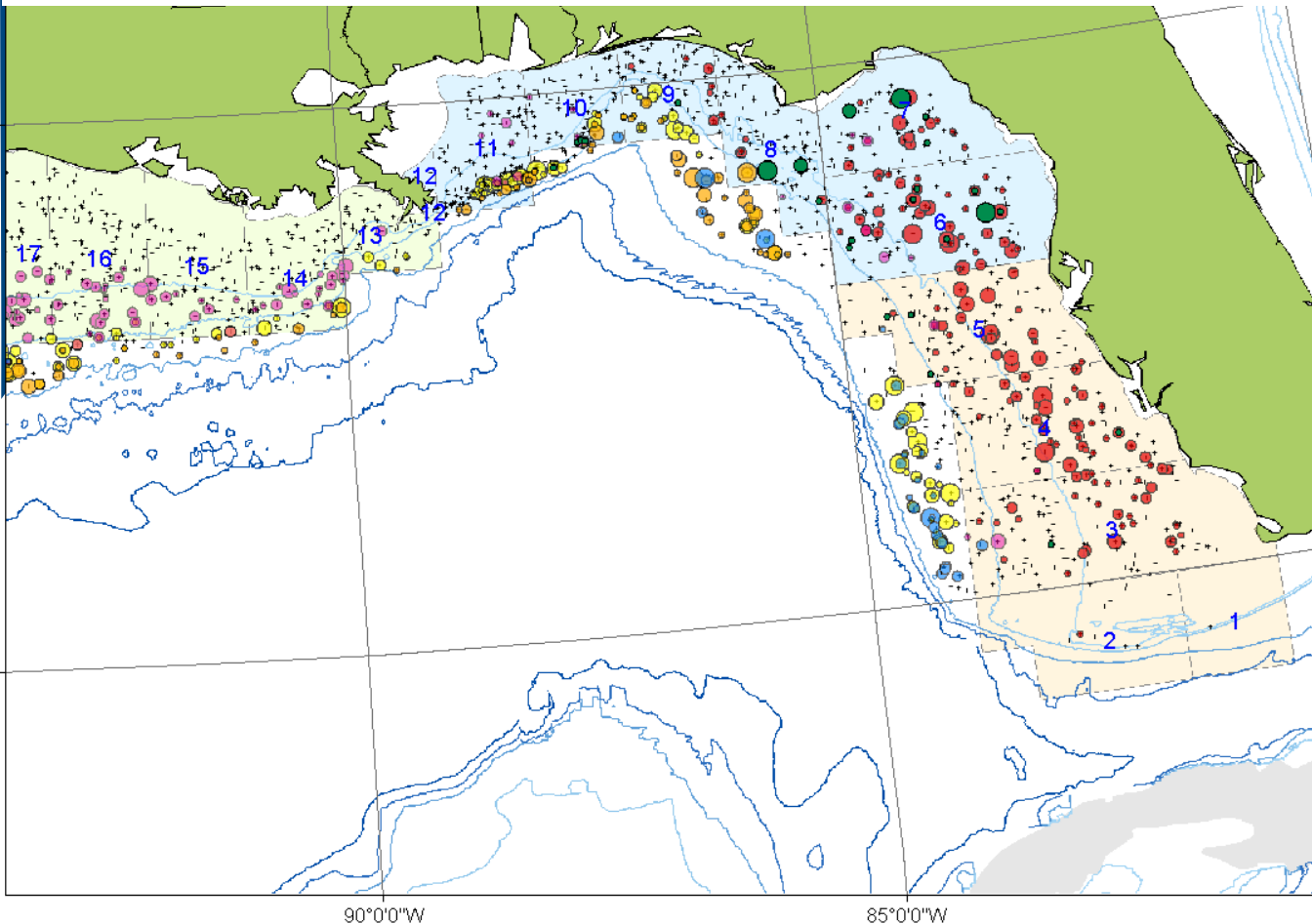
Gulf Red Grouper CPUE for Commercial Handline and Longline from Logbook Reports (2010 - 2025)

Gulf Council
August 24-27, 2026

John Walter III, PhD
Micki Pawluk, PhD
Kevin Thompson, PhD

*Fishery-dependent trends may be useful
as additional qualitative information for
evaluating fishery performance for
informing Council decisions...*

NMFS bottom longline survey 1995-2008, Eastern Gulf



Trips partition clearly between species using Stevens & MacCall approach

Graduated colored circles correspond to positive catch by species

NMFS bottom longline CPUE, crosses are '0' sets

TILE	YEG	RED GROUPER	RED SNAPPER	GAG	blueline tile	DEPTH (meters)
1 - 2	1	1	1 - 2	1	1	50
3 - 5	2 - 3	2 - 3	3 - 5	2	2 - 3	100
6 - 8	4 - 5	4 - 5	6 - 10	3	4	500
9 - 15	6 - 9	15 - 38	11 - 21		5 - 11	1000
						2000

Catch per Unit Effort - trip level

Handline:

$$CPUE = \frac{\text{lbs of Red Grouper}}{\text{number of lines} * \text{hooks per line} * \text{hours fished}}$$

Longline:

$$CPUE = \frac{\text{lbs of Red Grouper}}{\text{number of set} * \text{hooks per set}}$$

*Note: hours fished for longline sets is considered unreliable in CFLP due to misreporting (McCarthy and Cass-Calay 2006), and was therefore not used in CPUE calculation for LL

Nominal CPUE

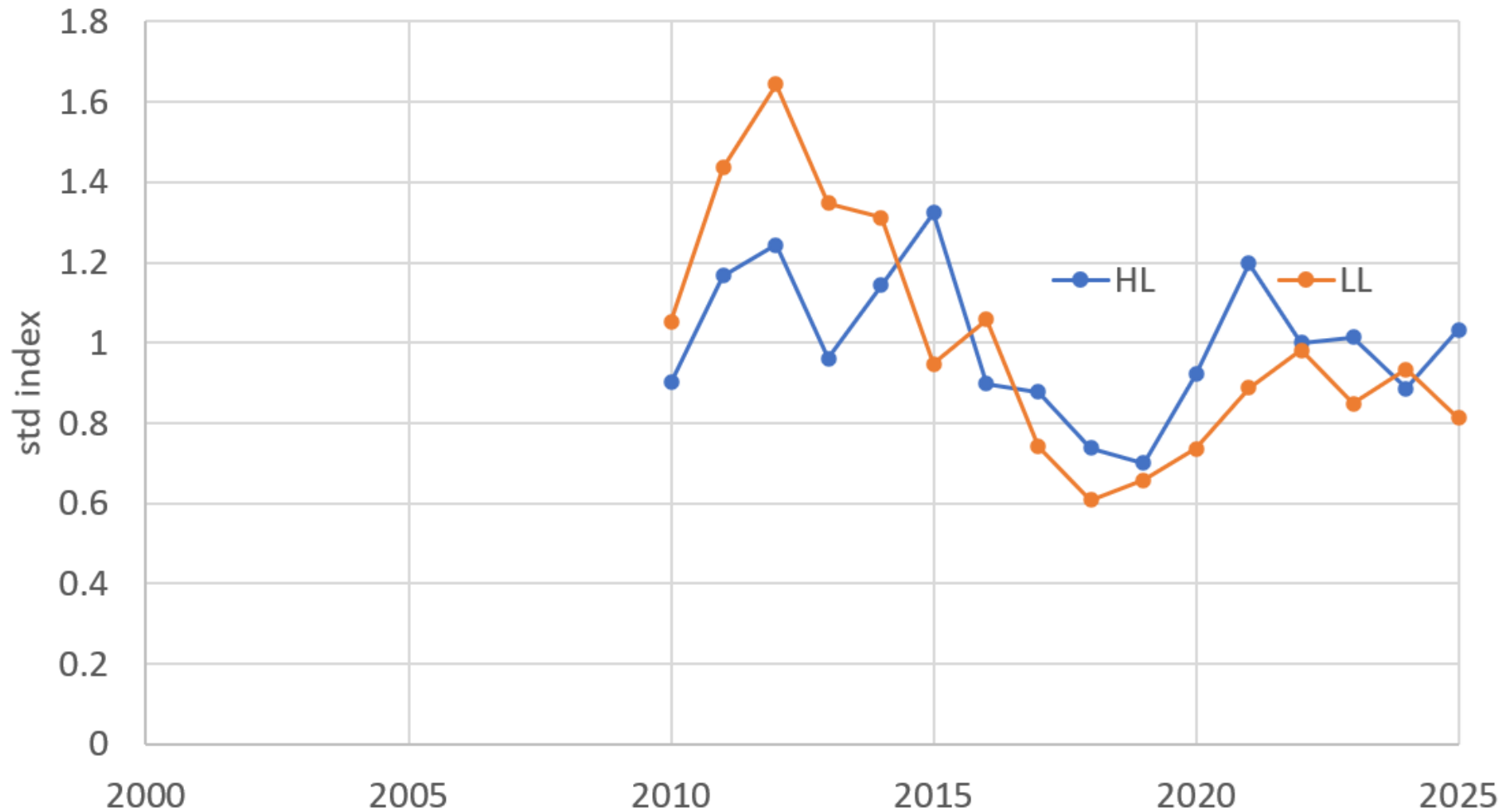
Handline

Year	# of Trips	Nominal CPUE	% Positive Trips	Standardized Nominal CPUE
2010	2134	3.1437	79.3814	0.9019
2011	1917	4.0645	84.1419	1.1661
2012	2166	4.3322	81.1173	1.2429
2013	1799	3.3465	83.9911	0.9601
2014	2181	3.9822	80.6052	1.1425
2015	2162	4.6133	81.0361	1.3235
2016	2201	3.1303	77.4648	0.8981
2017	2048	3.0574	76.6113	0.8772
2018	1725	2.5737	78.3188	0.7384
2019	1741	2.4406	77.5991	0.7002
2020	1354	3.2097	78.2127	0.9209
2021	1436	4.1715	80.1532	1.1968
2022	1214	3.4863	75.7002	1.0002
2023	1095	3.5331	79.3607	1.0136
2024	939	3.0858	79.4462	0.8853
2025	891	3.5980	79.0123	1.0323

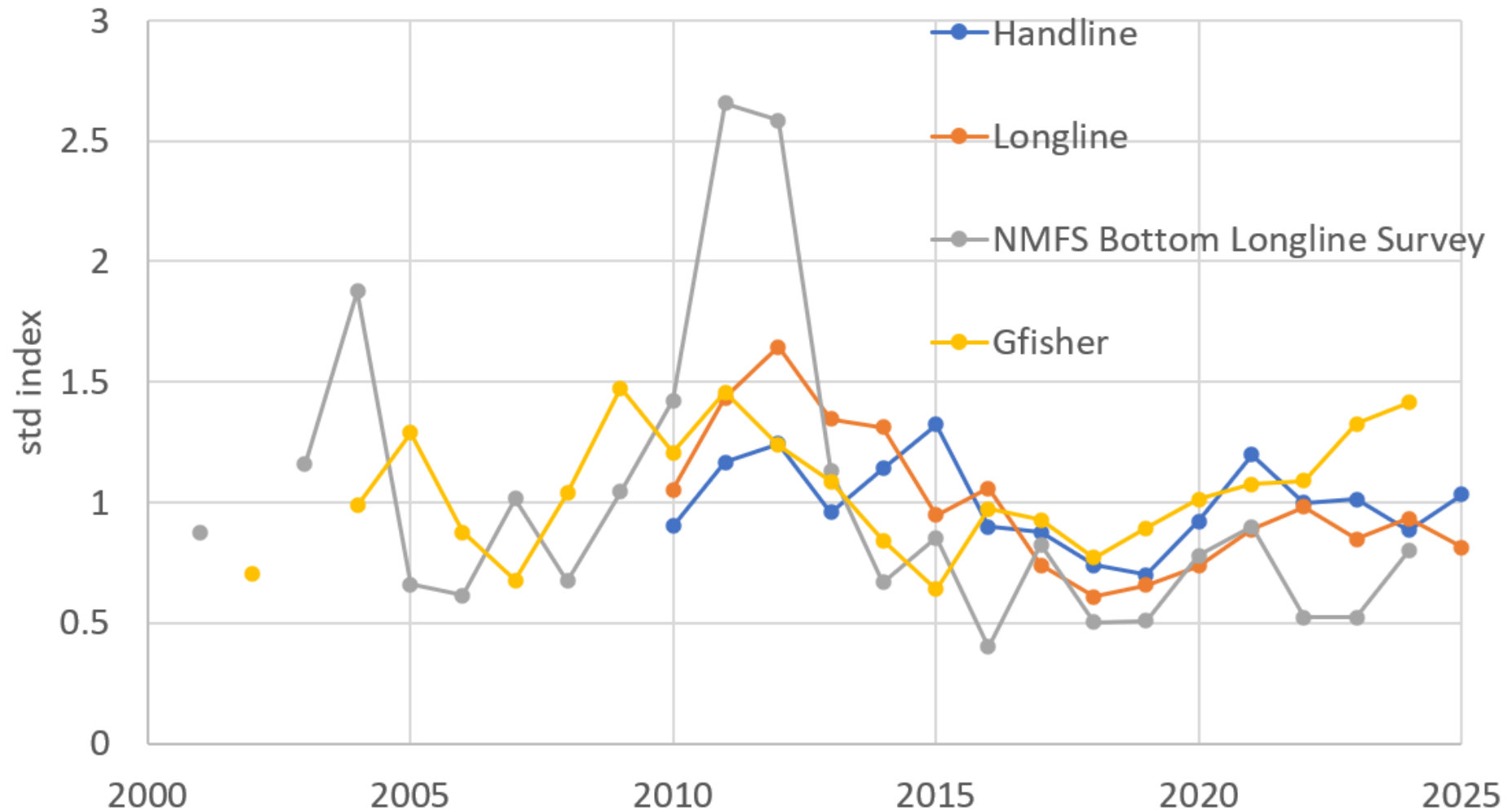
Longline

Year	# of Trips	Nominal CPUE	% Positive Trips	Standardized Nominal CPUE
2010	203	0.2402	99.0148	1.0529
2011	362	0.3275	99.4475	1.4353
2012	286	0.3751	97.5524	1.6441
2013	272	0.3073	98.5294	1.3467
2014	323	0.2993	98.7616	1.3120
2015	312	0.2161	98.7179	0.9470
2016	419	0.2413	98.5680	1.0575
2017	443	0.1690	98.6456	0.7408
2018	400	0.1386	96.7500	0.6076
2019	355	0.1500	97.1831	0.6575
2020	358	0.1681	99.4413	0.7366
2021	377	0.2023	96.8170	0.8867
2022	335	0.2239	97.9104	0.9812
2023	349	0.1935	96.5616	0.8482
2024	318	0.2131	98.1132	0.9338
2025	354	0.1853	98.8701	0.8123

Standardized Nominal CPUE



Comparison to Fishery Independent indices



References

McCarthy and Cass-Calay. 2006. Standardized catch rates for red grouper from the United States Gulf of Mexico handline, longline, and trap fisheries, 1990-2005. SEDAR 12-DW-16. 21pp.

Stephens, A., and A. MacCall. 2004. "A Multispecies Approach to Subsetting Logbook Data for Purposes of Estimating CPUE." *Fisheries Research* 70: 299–310.

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Questions?

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