



Tidal Freshwater Boundaries for Essential Fish Habitat (EFH)

*Department of Environmental Quality
Marine Fisheries*

SAFMC Habitat Advisory Panel Meeting | Casey Knight | November 1, 2023



Task

- Designate the upstream tidal boundary for Essential Fish Habitat in the South Atlantic
- Head of Tide
 - tidal limit or tidehead is the farthest point upstream where a river is affected by tidal fluctuations, or where the fluctuations are less than a certain amount. This applies to rivers which flow into tidal bodies such as oceans, bays and deltas.



State	Waterbody	HOT_ID	Latitude	Longitude	River Mile ¹
NC	Chowan River	GAL221383	36.52798464	-76.92253971	
NC	Roanoke River	GAL221388	35.97956924	-77.19345253	
NC	Tar River	GAL221390	35.61401228	-77.37729669	
NC	New River	GAL221398	34.76095859	-77.45783716	
NC	Turkey Creek	GAL221399	34.58247099	-77.82777857	
NC	Cape Fear River	GAL221400	34.4106624	-78.32114907	
NC	Lyon Thorofare	GAL221401	34.36459838	-78.08579649	
NC	Northeast Cape Fear River	GAL221402	34.37601987	-77.92723777	
NC	Town Creek	GAL221403	34.1405012	-78.04086501	
NC	Tranters Creek	GAL221391	35.58277282	-77.11709351	
NC	Blounts Creek	GAL221393	35.38110016	-76.971479	
NC	Neuse River	GAL221394	35.31429631	-77.32536533	
NC	Swift Creek	GAL221395	35.21718331	-77.10847899	
NC	Trent River	GAL221396	35.006241	-77.27575153	
NC	White Oak River	GAL221397	34.88003658	-77.23154452	
NC	Pasquotank River	GAL221384	36.46752437	-76.44798508	
NC	Perquimans River	GAL221385	36.29215826	-76.55530868	
NC	Bath Creek	GAL221392	35.51184781	-76.8064099	
NC	Little River	GAL221386	36.27188682	-76.3877813	
NC	Alligator	GAL221389	35.67503043	-76.17785881	
NC	North River	GAL221387	36.34854471	-76.09604217	
SC	Waccamaw River	GAL221370	33.88447468	-78.90383388	60
SC	Black River	GAL221372	33.4580866	-79.46426386	40
SC	Santee River	GAL221373	33.46901699	-79.94062442	37
SC	Cooper River	GAL221374	33.22586404	-79.98328129	45
SC	Edisto River	GAL221375	32.8821289	-80.38743981	37
SC	Combahee River	GAL221377	32.686087	-80.8201948	37
SC	Coosawatchie River	GAL221378	32.57495045	-80.92319863	9
SC	Jones Swamp Creek	GAL221376	32.98106629	-80.69995422	
SC/GA	Savannah River	GAL221408	32.30308768	-81.1196948	
SC	Great Pee Dee River	GAL221409	33.89637307	-79.42191574	33
GA	Ogeechee River	GAL221410	32.00462998	-81.32104959	
GA	Medway River	GAL221411	31.89709368	-81.39367252	
GA	North Newport River	GAL221412	31.77641006	-81.45468715	
GA	Altamaha River	GAL221413	31.42663678	-81.60453357	
GA	Satilla River	GAL221414	31.10538697	-81.90889608	
GA	Saint Marys River	GAL221415	30.77515248	-81.97986501	
GA	Saint Johns River	GAL221422	29.14560492	-81.51381932	

Head of Tide for South Atlantic States

[ArcGIS Online Map](#)

¹Navigability Study 1977 Summary USACOE Charleston District

Discussion

- Is the AP comfortable using these points to designate the upstream tidal boundary for Essential Fish Habitat in the South Atlantic?
- If so, how do we address waterbodies that do not currently have an approximate indicator of head of tide?
- What should be included in the EFH 5-year review?
 - Table with GPS coordinates and/or river miles?
 - Static maps by state?

