



# CAPE HATTERAS TO STRAITS OF FLORIDA

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**AUTHORITIES**  
Hydrography by the National Ocean Survey, with additional U.S. Coast Guard, Geological National Geospatial-Intelligence Agency, and other sources.

**RADAR REFLECTORS**  
Reflectors have been placed on many aids to navigation. Individual radar information on these aids has been placed on this chart.

**HEIGHTS**  
Heights in feet above Mean High Water.

**HORIZONTAL DATUM**  
Within the 12-nautical mile Territorial Sea, some Federal laws apply. The Three Nautical Mile outer limit of the territorial sea, is retained as a limit of the other laws. The 9-nautical mile National Outer Limit of the Territorial Sea, and the 3-nautical mile inner limit of Federal fisheries jurisdiction of the states. The 24-nautical mile Continental Shelf Exclusive Economic Zone were established by Presidential Proclamation. Unless fixed by treaty or the U.S. Supreme Court, these maritime limits are subject to modification.

**Myrtle Beach, SC USA**

**HURRICANES AND TROPICAL STORMS**  
Hurricanes, tropical storms and other major storms may cause considerable damage to marine structures, aids to navigation and moored vessels, resulting in submerged debris in unknown locations. Charted soundings, channel depths and shoreline may not reflect actual conditions following these storms. Fixed aids to navigation may have been damaged or destroyed. Buoys may have been moved from their charted positions, damaged, sunk, extinguished or otherwise made inoperative. Mariners should not rely upon the position or operation of an aid to navigation. Vessels and submerged obstructions may have been displaced from charted locations. Pipelines may have become uncovered or moved. Mariners are urged to exercise extreme caution and are requested to report aids to navigation discrepancies and hazards to navigation to the nearest United States Coast Guard unit.

**NOTE G CAUTION**  
Other vessels should exercise caution or dragging the ocean floor within 500 yards of Cape Canaveral. Missile debris of which may contain unexploded vests in this area.

**NOTE H**  
Endangered species should be avoided. Endangered species are in effect, but are not depicted on this chart. See larger scale charts.

**NOTE I**  
Right Whale Critical Habitat (see note J)

**NOTE J**  
Right Whale Critical Habitat (see note I)

**NOTE K**  
Explosives Dumping Area (see note L)

**NOTE L**  
Explosives Dumping Area (see note K)

**NOTE M**  
Explosives Dumping Area (see note L)

**NOTE N**  
Explosives Dumping Area (see note M)

**NOTE O**  
Explosives Dumping Area (see note N)

**NOTE P**  
Explosives Dumping Area (see note O)

**NOTE Q**  
Explosives Dumping Area (see note P)

**NOTE A**  
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 4. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 6th Coast Guard District in Portsmouth, Va., and 7th Coast Guard District in Miami, Fla., or at the Office of the District Engineer, Corps of Engineers in Wilmington, N.C., Charleston, S.C., Savannah, Ga., and Jacksonville, Fla. Refer to charted regulation section numbers.

**MAGNETIC VARIATION**  
Magnetic variation curves are for 2011 derived from 2010 World Magnetic Model and accompanying secular change. If annual change is in same direction as variation it is additive and the variation is increasing. If annual change is opposite in direction to variation it is subtractive and the variation is decreasing.

**CAUTION**  
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notices to Mariners.

**RESTRICTED AREA**  
(50 CFR 224.105; see note I)

**EXPLOSIVES DUMPING AREA**  
(see note J)

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(see note S)

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(see note T)

**EXPLOSIVES DUMPING AREA**  
(see note U)

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(see note X)

## FIRMINA CABLE SYSTEM

Undersea Communications Cable

### Contacts

**SubCom Marine Liaison**  
SubCom GTSC/NOC Hotline: +1 732 578 7474  
(Press #3)  
Email: [marineliaison@subcom.com](mailto:marineliaison@subcom.com)

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This chart shows the approximate positions of the fiber optic telecommunications cable FIRMINA. Do not use for navigation or for sale. It is dangerous to anchor or use equipment that penetrates the bottom near a cable. If your anchor or fishing gear is hooked to a cable do not attempt to retrieve it.

**Not For Navigation.**

Chart soundings in fathoms.

# FIRMINA CABLE SYSTEM

## Undersea Communication Cable

Attached are route positions lists and a map of the planned cable route.

The cable is planned to be installed in spring of 2023 and will be buried into the seabed. The cable ships will clear each route of seabed debris with a grapnel before installing the cable.

Where possible, during installation the cable ship will tow a sea plow and bury the cable. We will provide a notification prior to these operations. Ships are asked to avoid using anchors, bottom trawl fishing and other seabed gear within 1/2 mile of this cable route, and to maintain 1 nautical mile distance from the cable ship during installation operations.

To learn more about this cable, please contact SubCom at the numbers and emails listed. The cable carries high voltage so if you believe your equipment snags something that may be a cable, please do not try to lift it. After some slack is taken up, it may become extremely difficult to lift and could cause danger for your vessel and crew. Fishermen who sacrifice gear to avoid cable damage may be compensated for that gear, if they can provide evidence of the loss and show that they took precautions to avoid cable damage beforehand.

Please call the hot line number if you believe you are snagged on the cable for further instructions.

**SubCom GTSC/NOC Hotline:  
+1 732 578 7474 (Press #3)**

### FIRMINA Segment 1.5 | Myrtle Beach, SC, USA to BU PRDR

Latitude	Longitude	WD (Fathoms)	Latitude	Longitude	WD (Fathoms)
N33 38.8523	W078 55.4885	3	N33 10.1788	W078 04.1646	17
N33 38.8227	W078 55.4671	3	N33 10.0305	W078 03.9268	17
N33 38.7995	W078 55.4504	3	N33 09.7055	W078 03.3009	18
N33 38.6482	W078 55.2664	4	N33 09.4001	W078 02.7128	19
N33 38.5925	W078 55.1986	4	N33 09.3271	W078 02.6178	19
N33 38.5863	W078 55.1911	4	N33 08.5810	W078 01.7957	19
N33 37.6479	W078 54.0895	5	N33 08.3069	W078 01.1397	20
N33 37.6440	W078 54.0844	5	N33 07.8686	W078 00.2681	19
N33 37.6248	W078 54.0594	5	N33 07.2458	W077 59.2393	20
N33 36.5684	W078 52.4780	5	N33 07.2287	W077 59.2110	20
N33 36.5220	W078 52.3901	5	N33 07.1878	W077 59.1435	20
N33 36.5191	W078 52.3845	5	N33 06.0090	W077 57.3987	21
N33 36.4669	W078 52.3158	5	N33 05.8045	W077 57.1423	21
N33 36.4650	W078 52.3133	5	N33 05.7063	W077 57.0193	21
N33 36.3079	W078 52.1060	5	N33 05.1968	W077 56.2907	22
N33 35.4125	W078 50.3373	6	N33 05.0595	W077 56.0643	23
N33 35.2637	W078 50.0368	6	N33 04.9644	W077 55.8614	23
N33 35.2068	W078 49.9220	6	N33 04.4218	W077 54.7036	27
N33 34.7736	W078 48.8834	6	N33 04.3902	W077 54.6363	28
N33 34.7347	W078 48.8048	6	N33 04.3254	W077 54.5334	28
N33 34.3322	W078 47.9912	7	N33 03.8484	W077 53.9734	33
N33 34.3297	W078 47.9860	7	N33 02.8955	W077 52.3285	55
N33 33.7804	W078 46.7559	7	N32 59.8892	W077 47.1411	81
N33 33.5748	W078 46.3369	8	N32 59.2957	W077 46.1175	86
N33 33.1477	W078 45.6591	8	N32 58.5527	W077 44.9537	95
N33 31.5206	W078 42.2463	8	N32 57.5513	W077 43.3853	109
N33 30.5291	W078 40.3469	9	N32 56.5072	W077 41.7504	124
N33 29.4946	W078 38.3655	10	N32 55.6641	W077 40.4306	133
N33 29.3935	W078 38.1718	10	N32 55.5987	W077 40.3281	133
N33 27.9687	W078 35.1305	11	N32 55.0539	W077 39.4755	136
N33 27.5070	W078 34.1627	12	N32 54.9885	W077 39.3731	137
N33 27.0928	W078 33.2946	11	N32 50.4690	W077 32.3023	157
N33 26.4322	W078 31.9104	10	N32 50.0223	W077 31.6037	161
N33 25.8556	W078 31.0727	11	N32 44.8020	W077 23.4445	228
N33 25.7200	W078 30.8758	12	N32 43.6955	W077 21.7163	239
N33 25.6999	W078 30.8467	12	N32 43.2587	W077 20.9785	243
N33 25.1544	W078 29.7794	11	N32 43.0142	W077 20.6471	245
N33 24.1739	W078 27.8613	13	N32 42.5152	W077 19.5867	251
N33 22.7896	W078 25.8035	14	N32 41.8167	W077 18.6592	256
N33 20.5895	W078 21.9341	14	N32 41.0173	W077 17.7639	262
N33 19.8946	W078 20.8855	15	N32 40.7733	W077 17.4107	265
N33 19.8160	W078 20.7670	15	N32 40.5156	W077 16.8614	270
N33 19.3235	W078 19.6815	15	N32 40.2533	W077 16.3025	273
N33 16.5783	W078 15.2128	16	N32 40.1755	W077 16.2055	273
N33 15.7549	W078 13.4356	16	N32 40.0008	W077 15.9879	275
N33 15.5005	W078 12.9000	16	N32 38.6401	W077 14.2933	291
N33 12.6311	W078 08.3350	17	N32 30.4942	W077 02.6973	395
N33 12.5543	W078 08.2443	17	N32 26.8766	W076 57.5531	437
N33 12.1201	W078 07.8644	18	N32 26.0743	W076 56.4127	447
N33 12.0445	W078 07.7723	18	N32 24.8424	W076 54.6620	465
N33 11.8376	W078 07.3846	18	N32 22.5008	W076 51.5326	505
N33 11.5771	W078 06.3153	17	N32 20.7442	W076 49.0447	547
N33 11.5298	W078 06.1995	17	N32 20.4043	W076 48.5634	557
N33 10.8430	W078 05.0958	18	N32 20.2853	W076 48.4000	560
N33 10.6568	W078 04.7966	18	N32 15.2058	W076 41.4263	985
N33 10.4380	W078 04.5074	18	N32 14.3094	W076 40.1963	1094



The FIRMINA is a planned transatlantic telecommunication network that will connect Las Toninas in Argentina to Myrtle Beach, South Carolina, in USA with branches to Punta del Este in Uruguay and Praia Grande in Brazil. Also branching units will be installed for future landings in Fortaleza, Brazil, and Puerto Rico / Dominican Republic.

*If your gear snags this cable, please do not try to lift it...*

*...call the contacts on this page.*

**NOT FOR NAVIGATION**