



*Supplement of*

## **Optimizing offshore wind export cable routing using GIS-based environmental heat maps**

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## Supplement Table S1

### Links to Data Sources

<b>Data Layer</b>	<b>Source</b>
Study Area	Arbitrarily determined by authors
Wind Energy Area Polygon	<a href="https://www.boem.gov/renewable-energy/state-activities/carolina-long-bay">https://www.boem.gov/renewable-energy/state-activities/carolina-long-bay</a>
Bathymetry (Ocean Reports)	<a href="https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4">https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4</a>
Bathymetry Contours (Ocean Reports)	<a href="https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4">https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4</a>
Bathymetry (GEBCO)	<a href="https://download.gebco.net/">https://download.gebco.net/</a>
East Coast Sediment Texture Database / ECSTD2014 Sample Points (USGS)	<a href="https://woodshole.er.usgs.gov/openfile/of2005-1001/htmldocs/datacatalog.htm">https://woodshole.er.usgs.gov/openfile/of2005-1001/htmldocs/datacatalog.htm</a>
Continental Margin Mapping Program / CONMAP Sediment Size Distribution Polygons (USGS)	<a href="https://woodshole.er.usgs.gov/openfile/of2005-1001/htmldocs/datacatalog.htm">https://woodshole.er.usgs.gov/openfile/of2005-1001/htmldocs/datacatalog.htm</a>
F00679 Backscatter Data (NOAA)	<a href="https://www.ngdc.noaa.gov/nos/F00001-F02000/F00679.html">https://www.ngdc.noaa.gov/nos/F00001-F02000/F00679.html</a>
H11413 Sidescan Data (NOAA)	<a href="https://www.ngdc.noaa.gov/nos/H10001-H12000/H11413.html">https://www.ngdc.noaa.gov/nos/H10001-H12000/H11413.html</a>
H12930 Backscatter Data (NOAA)	<a href="https://www.ngdc.noaa.gov/nos/H12001-H14000/H12930.html">https://www.ngdc.noaa.gov/nos/H12001-H14000/H12930.html</a>
Essential Fish Habitat (NOAA)	<a href="https://www.habitat.noaa.gov/protection/efh/newInv/index.html">https://www.habitat.noaa.gov/protection/efh/newInv/index.html</a>

Habitat Areas of Particular Concern (NOAA)	<a href="https://www.habitat.noaa.gov/protection/efh/newInv/index.html">https://www.habitat.noaa.gov/protection/efh/newInv/index.html</a>
Cetacean Biologically Important Areas (Ocean Reports)	<a href="https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4">https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4</a>
Audubon Important Bird Areas (Audubon Society via Ocean Reports)	<a href="https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4">https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4</a>
Coastal Barrier Resource Areas	<a href="https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4">https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4</a>
Protected Areas	<a href="https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4">https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4</a>
Danger Zones	<a href="https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4">https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4</a>
Shipwrecks	<a href="https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4">https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4</a>
Artificial Reefs	<a href="https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4">https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4</a>
Navigation Channels	<a href="https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4">https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4</a>
Shipping Lanes	<a href="https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4">https://marinecadastre.gov/oceanreports/#/@-10737743.881037742,4753280.983019757/4</a>
Hardbottom/Essential Fish Habitat Areas	Digitized from Captain Seagull's Fishing Chart