

APPENDIX O

GEOGRAPHIC INFORMATION SYSTEM DATA SOURCES

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Draft

**Supplemental Environmental Impact Statement/
Overseas Environmental Impact Statement
Atlantic Fleet Training and Testing**

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Table O-1: Data Sources by Feature/Layer

<i>Feature/Layer</i>	<i>Applicable Figures</i>	<i>Data Source References</i>
Commercial Shipbuilding Facility	Multiple Figures (Global)	National Geospatial Intelligence Agency (NGA). Updated 2023. SDSIFIE Version 2.6
Bays, Inshore Waters, and Civilian Ports	Multiple Figures (Global)	Navy Common Operating Picture database
Navy and Select Coast Guard Port or Pierside Locations	Multiple Figures (Global)	National Geospatial Intelligence Agency (NGA). Updated 2023. SDSIFIE Version 2.6
Military Training/Range/Operation Areas	Multiple Figures (Global)	Training Areas – Commander, U.S. Fleet Forces – U.S. Navy, Common Operating Picture (COP) Atlantic GOMEX. Updated 5/2018. SDSFIE Version 2.6. Navy POC: David Urbik David.urbik@navy.mil
Special Use Airspace	Multiple Figures (Global)	NGA Digital Aeronautical Flight Information File (DAFIF) (2010)
3 NM/9 NM State/Federal Boundary	2.1-6	FWC-FWRI (Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute), updated July 21, 2017
Coast Guard Station	2.1-7	Navy Common Operating Picture database.
Coast Guard Cutter Station	2.1-7	Units by OPFAC LANT CUTTERS lat long.xlsx. Provided to Leidos on 11/28/2023
Chapter 2	Multiple Figures (Global)	Training Areas – Commander, U.S. Fleet Forces – U.S. Navy, Common Operating Picture (COP) Atlantic GOMEX. Updated 5/2018. SDSFIE Version 2.6
Chapter 2	Multiple Figures (Global)	NGA Digital Aeronautical Flight Information File (DAFIF) (2010)
Chapter 2	Multiple Figures (Global)	Department of Navy (DON) – U.S. Navy. Updated 07/02/2018 SDSFIE Version 2.6
Chapter 2	Multiple Figures (Global)	National Geospatial Intelligence Agency (NGA). Updated 05/25/2016. SDSIFIE Version 2.6
Chapter 2	Multiple Figures (Global)	National Geospatial Intelligence Agency (NGA). Updated 05/25/2016. SDSIFIE Version 2.6
Chapter 2	Multiple Figures (Global)	Amante, C. and B.W. Eakins, 2009. ETOPO1 1 Arc-Minute Global Relief Model: Procedures, Data Sources and Analysis. NOAA Technical Memorandum NESDIS NGDC-24. National Geophysical Data Center, NOAA. doi:10.7289/V5C8276M [2017] https://www.ngdc.noaa.gov/docucomp/page?xml=NOAA/NESDIS/NGDC/MGG/DEM/iso/xml/316.xml&view=getDataView&header=none

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<i>Feature/Layer</i>	<i>Applicable Figures</i>	<i>Data Source References</i>
Chapter 2	2.1-6	FWC-FWRI (Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute), updated July 21, 2017
Section 3.1	3.1-1, 3.1-2, 3.1-3, 3.1-4	U.S. Environmental Protection Agency: Ozone 2014; PM _{2.5} – 2015; PM ₁₀ Nonattainment/Maintenance Areas – 2013
Section 3.2	3.2-2, 3.2-3, 3.2-4	EPA National Aquatic Resource Surveys https://www.epa.gov/national-aquatic-resource-surveys/data-national-aquatic-resource-surveys 2010
Section 3.2	3.2-6, 3.2-7, 3.2-8	EPA National Aquatic Resource Surveys https://www.epa.gov/national-aquatic-resource-surveys/data-national-aquatic-resource-surveys 2010
Section 3.3		U.S. Department of the Navy. (2024). Phase IV Atlantic Fleet Training and Testing: Marine Habitat Database Technical Report. Naval Facilities Engineering Systems Command Atlantic, Norfolk, VA. 66 pages
Section 3.5		NMFS Office Of Protected Resources, 2024: Mountainous Star Coral, Boulder Star Coral, Lobed Star Coral, Pillar Star Coral, and Rough Cactus Coral https://www.fisheries.noaa.gov/inport/item/65261 and https://www.fisheries.noaa.gov/inport/item/65253 and https://www.fisheries.noaa.gov/inport/item/65259 and https://www.fisheries.noaa.gov/inport/item/65263 and https://www.fisheries.noaa.gov/inport/item/65265
Section 3.5		NMFS Office Of Protected Resources, 2024: Elkhorn and Staghorn Coral https://www.fisheries.noaa.gov/inport/item/65405 and https://www.fisheries.noaa.gov/inport/item/65407
Ozone, CO, PM _{2.5} , and PM ₁₀ Nonattainment/Maintenance Areas	3.1-2 - 3.1-5	U.S. Environmental Protection Agency: CO Maintenance Area - 12/04/2013 PM _{2.5} (2012 Standard) - 3/21/2016 PM _{2.5} (2006 Standard) - 9/15/2011 PM _{2.5} (1997 Standard) - 8/23/2011 PM ₁₀ (1987 Standard) - 12/5/2013 8-Hour Ozone (1997 Standard) – 9/8/2015 8-Hour Ozone (2008 Standard) – 6/13/2012 8-Hour Ozone (2015 Standard) – 2/1/2022 SO ₂ (2010 Standard) – 6/30/2021
Critical Habitat (areas) – Atlantic Salmon	3.6-1	National Oceanic and Atmospheric Administration National Marine Fisheries Service, 2009 http://www.nmfs.noaa.gov/pr/species/criticalhabitat.htm
Critical Habitat (rivers) – Atlantic Salmon	3.6-2, 3.6-3	National Oceanic and Atmospheric Administration National Marine Fisheries Service, 2024 https://www.fisheries.noaa.gov/inport/item/67040
Critical Habitat – Gulf Sturgeon	3.6-4	National Coastal Data Development Center, 2003

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<i>Feature/Layer</i>	<i>Applicable Figures</i>	<i>Data Source References</i>
Critical Habitat – Smalltooth Sawfish	3.6-5	NMFS, Office of Protected Resources, October 2009
Critical Habitat – Nassau Grouper	3.6-6	National Oceanic and Atmospheric Administration National Marine Fisheries Service, January 8, 2024 https://www.fisheries.noaa.gov/inport/item/71819
Mitigation Areas	3.6-7, 3.6-8	Department of the Navy (2023)
Green Turtle Designated Critical Habitat	3.8-1, 3.8-3	National Oceanic and Atmospheric Administration Fisheries, 2024 https://www.fisheries.noaa.gov/national/endangered-species-conservation/critical-habitat
Green Turtle Proposed Critical Habitat	3.8-1, 3.8-2, 3.8-3, 3.8-4, 3.8-12, 3.8-13	National Oceanic and Atmospheric Administration Fisheries, 2023 https://noaa.maps.arcgis.com/home/item.html?id=475809f0b637409b8027502fd05dbeb6
Hawksbill Turtle Designated Critical Habitat	3.8-5	National Oceanic and Atmospheric Administration Fisheries, 2024 https://www.fisheries.noaa.gov/national/endangered-species-conservation/critical-habitat
Leatherback Turtle Designated Critical Habitat	3.8-6	National Oceanic and Atmospheric Administration Fisheries, 2024 https://www.fisheries.noaa.gov/national/endangered-species-conservation/critical-habitat
Loggerhead Turtle Designated Critical Habitat	3.8-7, 3.8-8, 3.8-9, 3.8-10, 3.8-14, 3.8-15, 3.8-16	National Oceanic and Atmospheric Administration Fisheries, 2024 https://www.fisheries.noaa.gov/national/endangered-species-conservation/critical-habitat
American Crocodile Designated Critical Habitat	3.8-11	U.S. Fish and Wildlife Service, 2024 https://ecos.fws.gov/ecp/report/table/critical-habitat.html
Piping Plover Designated Critical Habitat	3.9-1, 3.9-2, 3.9-3, 3.9-4, 3.9-9, 3.9-10	U.S. Fish and Wildlife Service, 2024 https://ecos.fws.gov/ecp/report/table/critical-habitat.html
Red Knot Proposed Critical Habitat	3.9-5, 3.9-6, 3.9-7, 3.9-8, 3.9-11, 3.9-12	U.S. Fish and Wildlife Service, 2024 https://ecos.fws.gov/ecp/report/table/critical-habitat.html
National Marine Sanctuaries	6.1-1, 6.1-2	NOAA Marine Protected Areas Inventory, 2023 https://marineprotectedareas.noaa.gov/dataanalysis/mpainventory/
Chapter 2	Multiple Figures (Global)	Government Furnished Department of the Navy (2016)
Section 3.7		NMFS Office Of Protected Resources, 2024: North Atlantic Right Whale, https://www.fisheries.noaa.gov/inport/item/65383
		U.S. Fish and Wildlife Service. 2005. Final Critical Habitat for the West Indian manatee (Trichechus manatus) [Vector digital data]. Federal Register (41 FR 41914), September 24, 1976 http://criticalhabitat.fws.gov/docs/crithab/zip/fch_41fr41914_trma_2009.zip

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<i>Feature/Layer</i>	<i>Applicable Figures</i>	<i>Data Source References</i>
		NMFS Office Of Protected Resources, 2024: Proposed_RicesWhale_20230724, https://www.fisheries.noaa.gov/inport/item/70324
Section 3.6	3.6-1	National Oceanic and Atmospheric Administration National Marine Fisheries Service, 2009. http://www.nmfs.noaa.gov/pr/species/criticalhabitat.htm
Section 3.6	3.6-2, 3.6-3	NOAA NMFS: http://sero.nmfs.noaa.gov/maps_gis_data/protected_resources/critical_habitat/geodata/proposed_atlantic_sturgeon_critical_habitat_in.htm 2016
Section 3.6	3.6-4	NMFS, Office of Protected Resources, October 2009
Section 3.6	3.6-5	National Coastal Data Development Center, 2003
Section 3.7	3.7-3, 5.4-4, 5.4-5	NOAA Fisheries Greater Atlantic Regional Fisheries Office, 2016 http://www.nmfs.noaa.gov/pr/species/criticalhabitat.htm
Section 3.8	3.8-4	National Oceanic and Atmospheric Administration National Marine Fisheries Service, 1998
Section 3.8	3.8-5	National Oceanic and Atmospheric Administration National Marine Fisheries Service, 1998
Section 3.8	3.8-6, 3.8-7, 3.8-8	NOAA Fisheries: http://www.nmfs.noaa.gov/pr/species/turtles/criticalhabitat_loggerhead.htm 2014
Section 3.8	3.8-9	National Oceanic and Atmospheric Administration National Marine Fisheries Service, 1979
Section 3.8	3.8-10	U.S. Fish and Wildlife Service, 2003 https://www.fws.gov/verobeach/GIS.html
Section 3.9	3.9-1, 3.9-2, 3.9-3	U.S. Fish and Wildlife Service, 2009 https://www.fws.gov/verobeach/GIS.html
	3.10-4, 3.10-5, 3.10-6	NOAA Automated Wreck and Obstruction Information System [AWOIS] (2002) https://nauticalcharts.noaa.gov/data/wrecks-and-obstructions.html Veridian Corporation (2001) National Registry of Historic Places (2016) https://www.nps.gov/nr/research/
	3.11-1	Bureau of Ocean Energy Management http://www.boem.gov/Maps-and-GIS-Data/ 2016
	3.11-2, 3.11-3	FWC-FWRI (Florida Fish and Wildlife Conservation Commission- Fish and Wildlife Research Institute), 2017 http://myfwc.com/research/gis/
	3.11-3	Department of the Navy (2015) Navy POC: Jonathan Crain Jonathan.crain@navy.mil United States Department of the Interior, Minerals Management Service. Updated 02/10/2014. SDSFIE Version 2.6

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<i>Feature/Layer</i>	<i>Applicable Figures</i>	<i>Data Source References</i>
	3.11-4	Research and Innovative Technology Administration's Bureau of Transportation Statistics (RITA/BTS) National Transportation Atlas Database (2007). National Waterway Network
	3.11-4	NGA (2016). World Port Index
	3.11-15, 3.11-16, 3.11-17	Title 33-Navigation and Navigable Waters, Chapter II-Corps of Engineers, Department of the Army, Department of Defense, Part 334-Danger Zone and Restricted Area Regulations 2005
Chapter 5		Department of the Navy Navy POC: Ben Bartley Version: 2024
		U.S. Department of the Navy. (2024). Phase IV Atlantic Fleet Training and Testing: Marine Habitat Database Technical Report. Naval Facilities Engineering Systems Command Atlantic, Norfolk, VA. 66 pages
	2.3-2, 6.1-5, 6.1-6	NOAA National Marine Sanctuaries, 2004 https://sanctuaries.noaa.gov/library/imast_gis.html
	6.1-1, 6.1-2, 6.1-3, 6.1-4	NOAA National Marine Protected Areas Center, 2015 United States Fish and Wildlife Service, 2017 https://marinecadastre.gov/data/
	6.1-1, 6.1-2, 6.1-3, 6.1-4	National Park Service, 2017 https://catalog.data.gov/dataset/national-park-boundariesf0a4c#sec-date s
Appendix F (Habitats)		U.S. Department of the Navy. (2024). Phase IV Atlantic Fleet Training and Testing: Marine Habitat Database Technical Report. Naval Facilities Engineering Systems Command Atlantic, Norfolk, VA. 66 pages
Appendix F (Invertebrates)		U.S. Department of the Navy. (2024). Phase IV Atlantic Fleet Training and Testing: Marine Habitat Database Technical Report. Naval Facilities Engineering Systems Command Atlantic, Norfolk, VA. 66 pages
		Same as legend item: 3 NM State/Federal Boundary 9 NM State/Federal Boundary
Appendix F (Marine Mammals)	5.4-4, 5.4-5	National Oceanic and Atmospheric Administration. Biologically Important Areas, Overview of BIA II [unpublished GIS data for the East Coast and Gulf of Mexico]. Available from: https://oceannoise.noaa.gov/biologically-important-areas

Notes: AWOIS = Automated Wreck and Obstruction Information System; CO = carbon monoxide; COP = Common Operating Procedure; DAFIF = Digital Aeronautical Flight Information File; FWC-FWRI = Florida Fish and Wildlife Conservation Commission-Fish and Wildlife Research Institute; FR = Federal Register; GIS = Geographic Information System; GOMEX = Gulf of Mexico; NGA = National Geospatial Intelligence Agency; NMFS = National Marine Fisheries Service; NM = nautical mile; NOAA = National Oceanic and Atmospheric Administration; PM_{2.5} = particulate matter less than or equal to 2.5 microns in diameter; PM₁₀ = particulate matter less than or equal to 10 microns in diameter; POC = Point of Contact; SO₂ = sulfur dioxide; U.S. = United States

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