

# Addendum 3 to this Traffic Summary for the NJ PARS – Tug/Tow Coastwise Traffic Analysis

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## Introduction and Background

This addendum to the “Vessel Traffic Analysis for Port Access Route Study: Seacoast of New Jersey including the offshore approaches to the Delaware Bay” contains additional graphics detailing the coastal tug/tow vessel traffic in the NJ PARS study area (as defined in the Federal Register, Agency Docket Number USCG-2020-0172) as well as the Chesapeake Bay PARS study area (as defined in the federal Register, Agency Docket Number USCG-2019-0862). This area is shown in green in Figure 1.

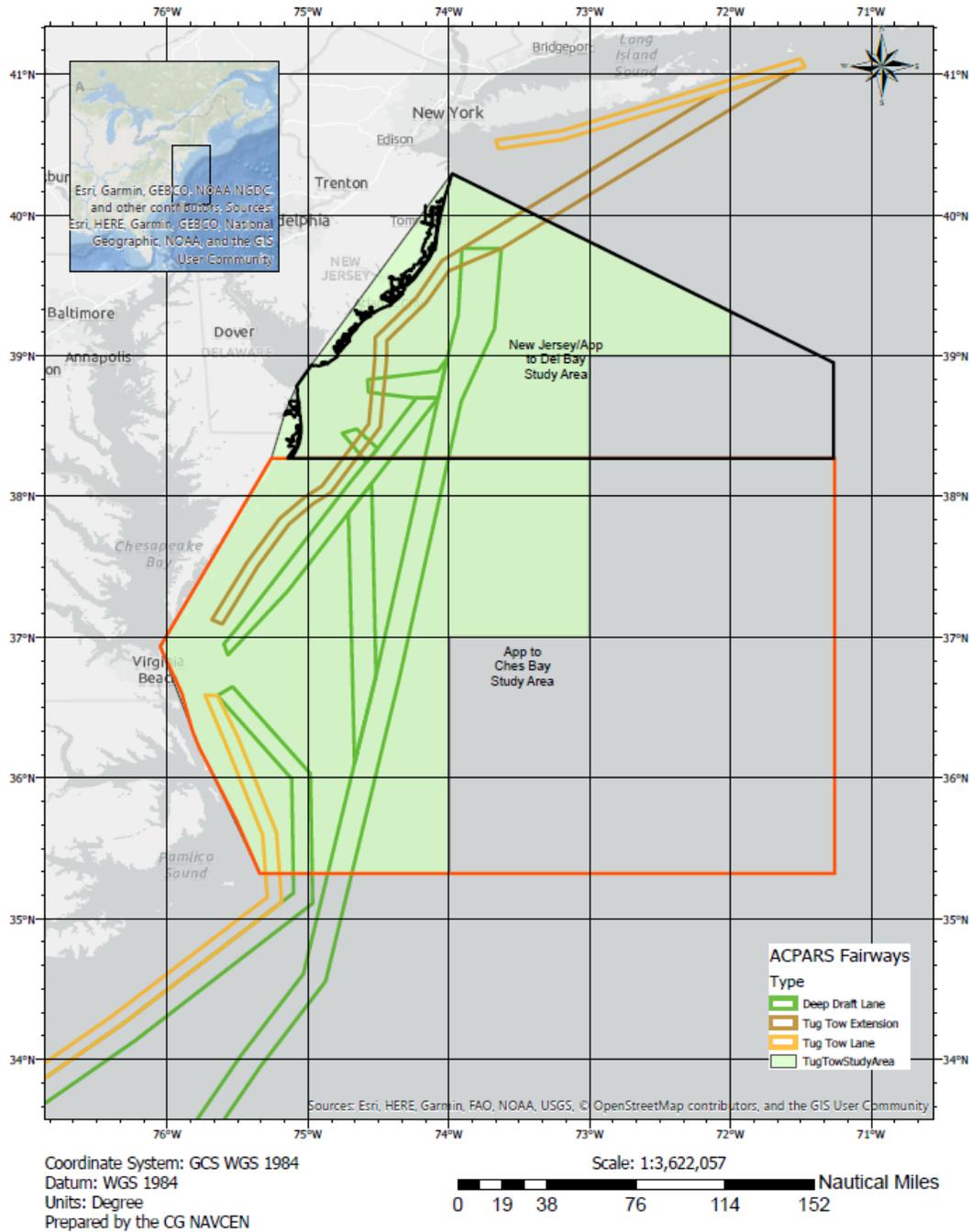


Figure 1: Tug/Tow Study Area

## Data, Software, and Methodology

Vessel track lines were obtained from and constructed by Marine Cadastre using NAIS data 2017-2019 and were clipped to the appropriate area for the study.

### Vessel Track Counts

Vessel tracks are enumerated in one nautical mile square bins and displayed on a color scale from blue to purple to yellow in ArcGIS. Separate graphics are included for each year of data. Between the years, the same scale and colors are used to display the vessel track counts. Thus, the graphics for each year can be directly compared to one another.

### Vessel Traffic Densities

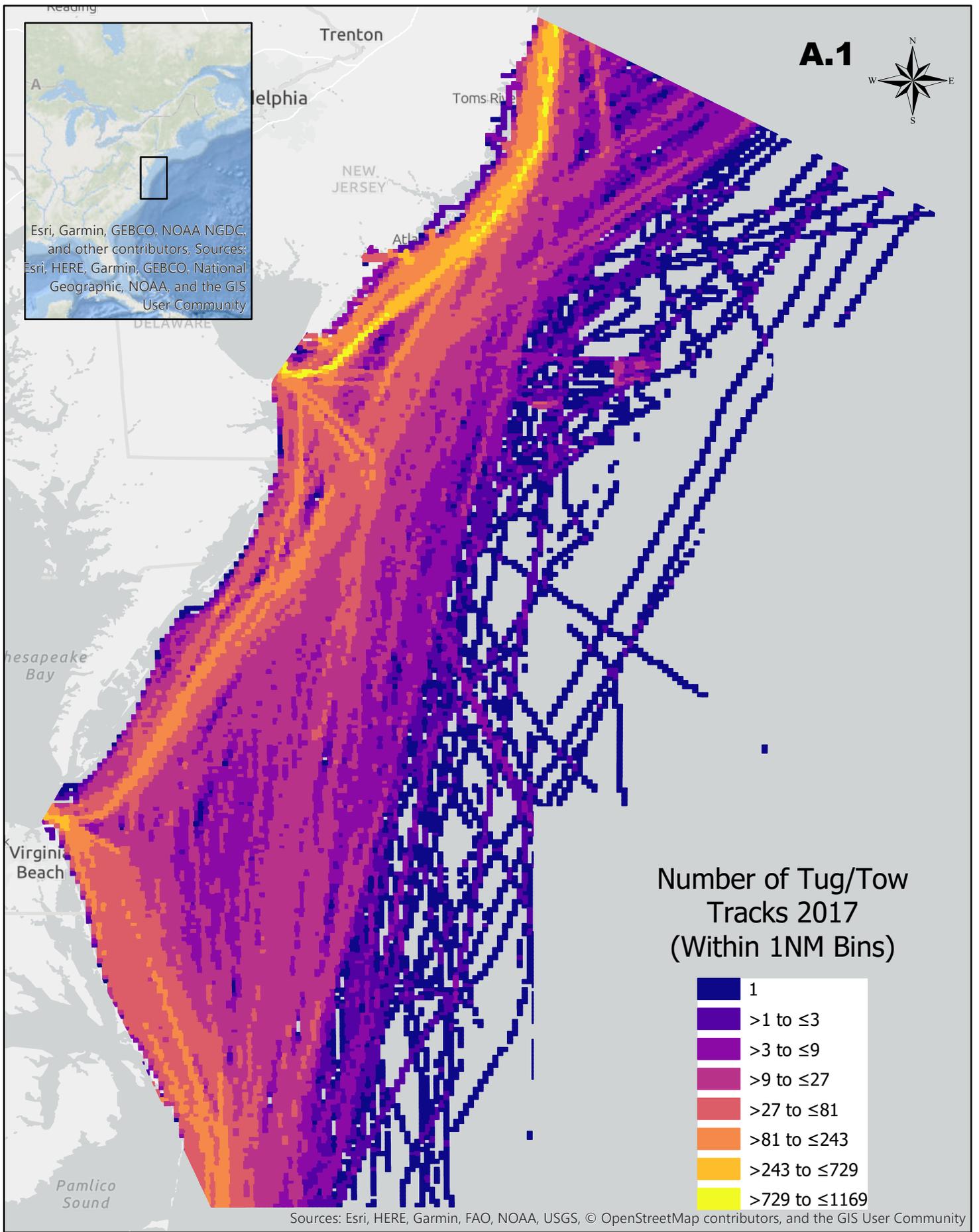
Densities were made in ArcGIS and are calculated by enumerating the length of transits per square mile  $\frac{\text{Miles Transited (year)}}{\text{mile}^2}$ . Each density is represented on a blue, purple, to yellow scale where low density is shown in blue and high density is shown in yellow. These calculations are carried out independently for each traffic density, thus each density is shown on a different scale that best represents the data in each case and cannot be directly compared.

## Graphics

Two sets of graphics are provided. The first set details only the vessel track counts or traffic densities in the study area, while the second set also includes the following layers: wind lease and planning areas and the ACPARS proposed fairways. Graphics are organized by year and type, as listed in Table 1.

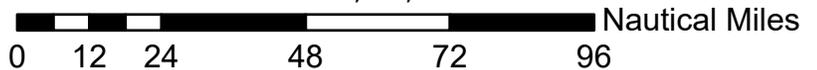
	Year		
Type	2017	2018	2019
Track Counts	A.1	A.2	A.3
Traffic Densities	B.2	B.3	B.4

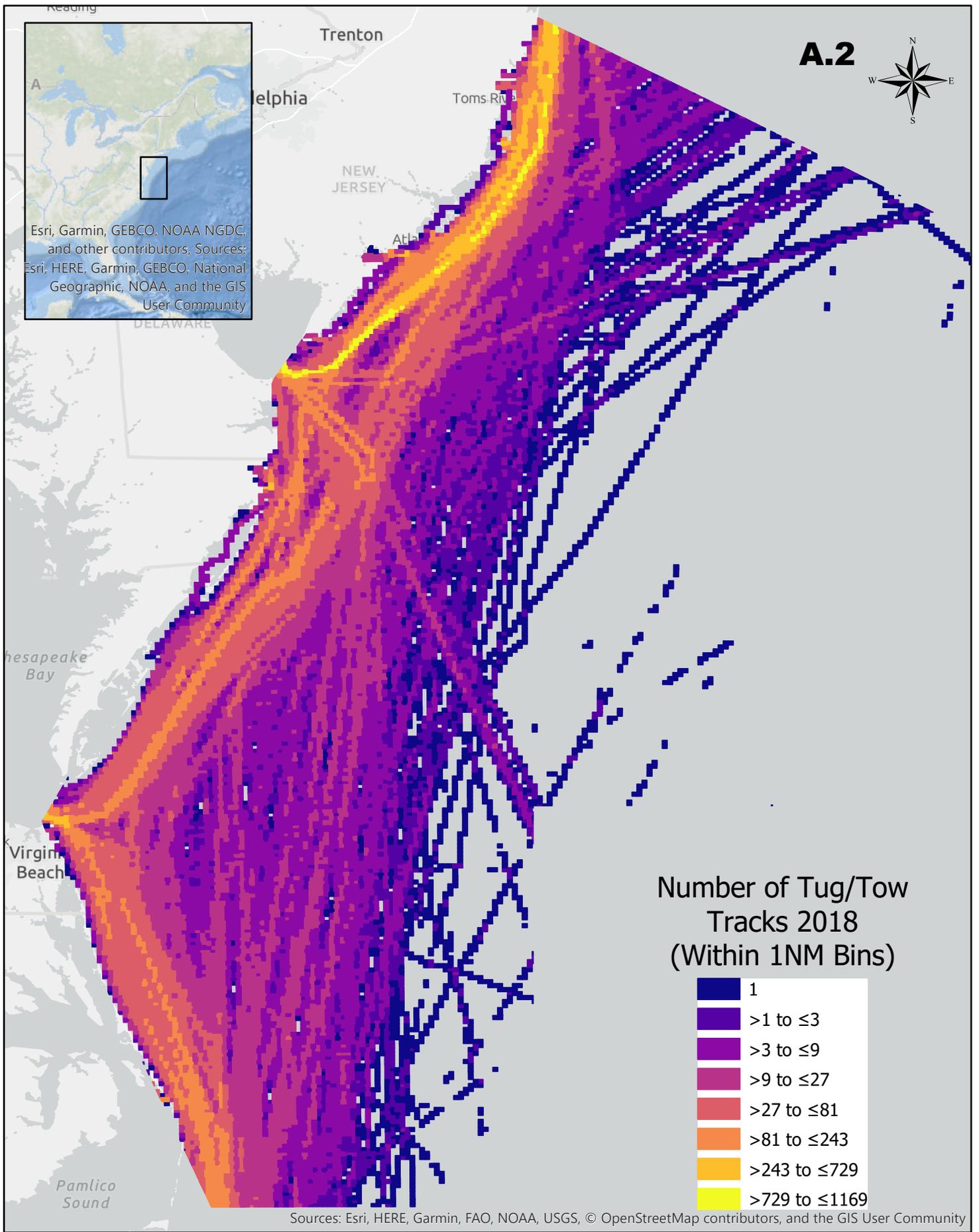
Table 1: Graphic Labels



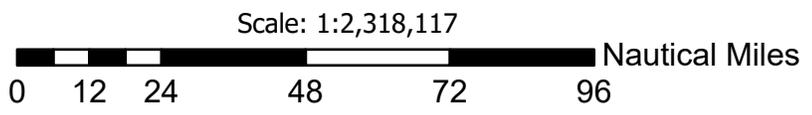
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 Datum: WGS 1984  
 Units: Degree  
 Data Source: NAIS  
 Prepared by the CG NAVCEN

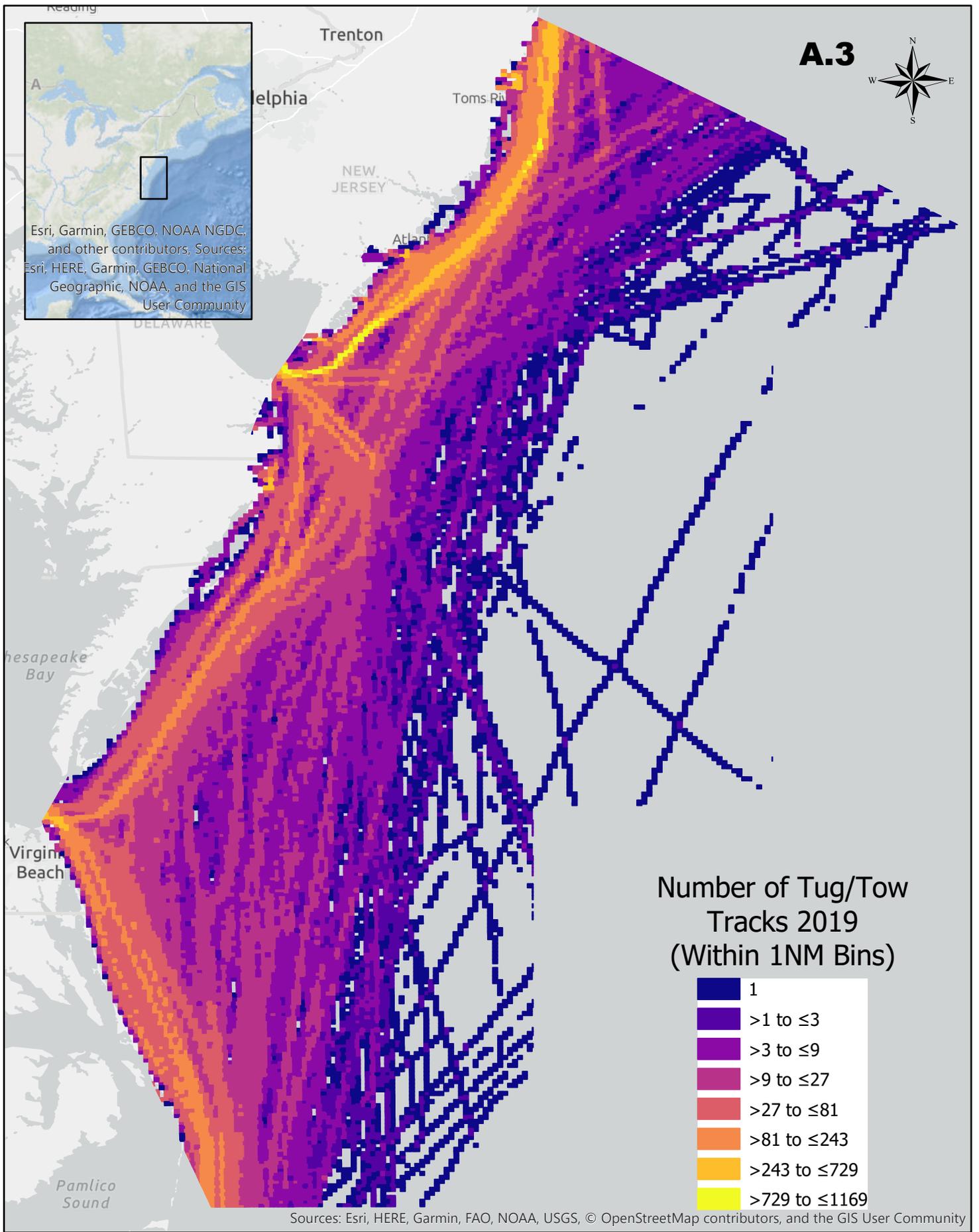
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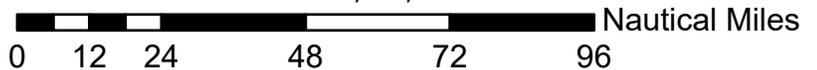
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 Prepared by the CG NAVCEN

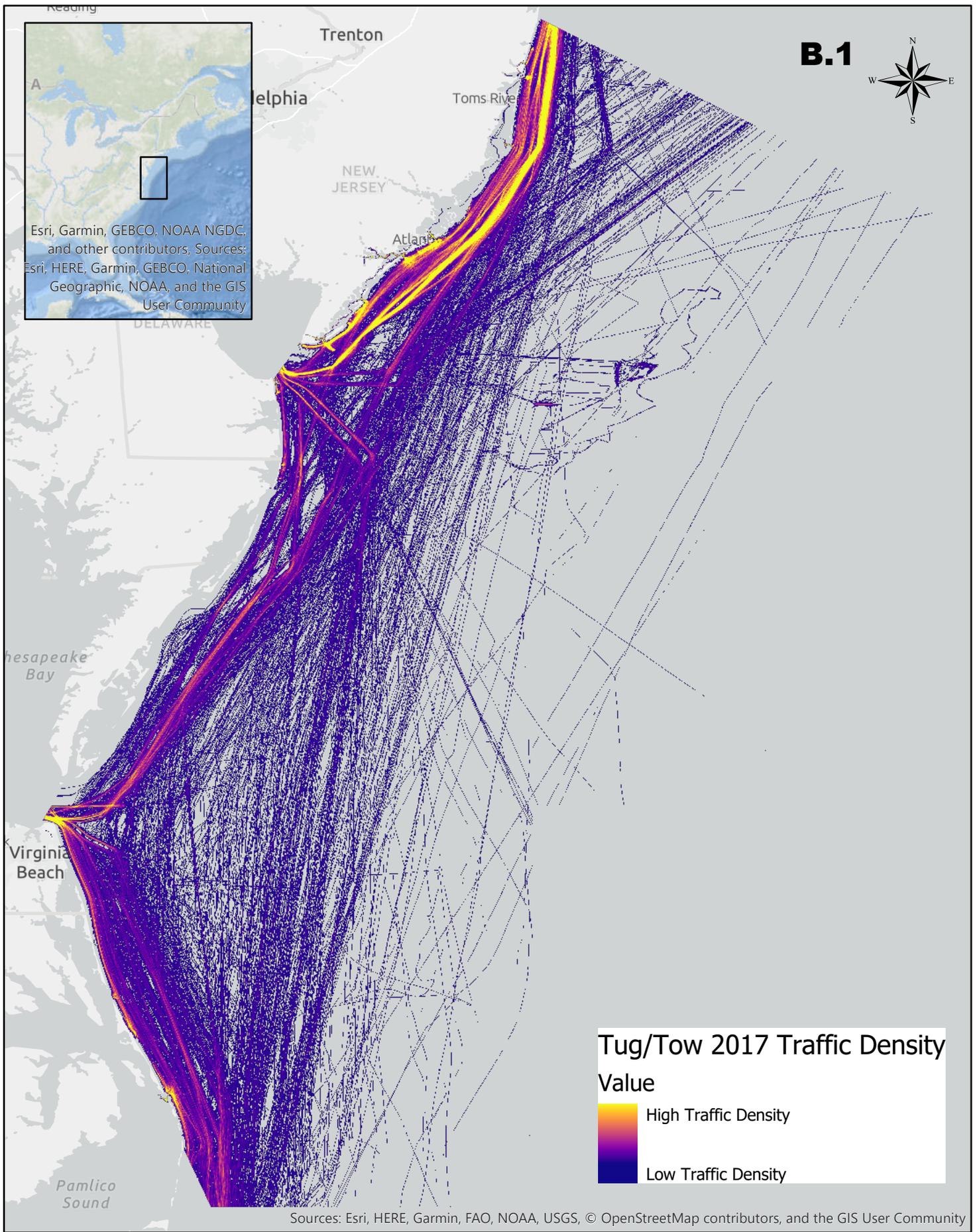




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Scale: 1:2,318,117

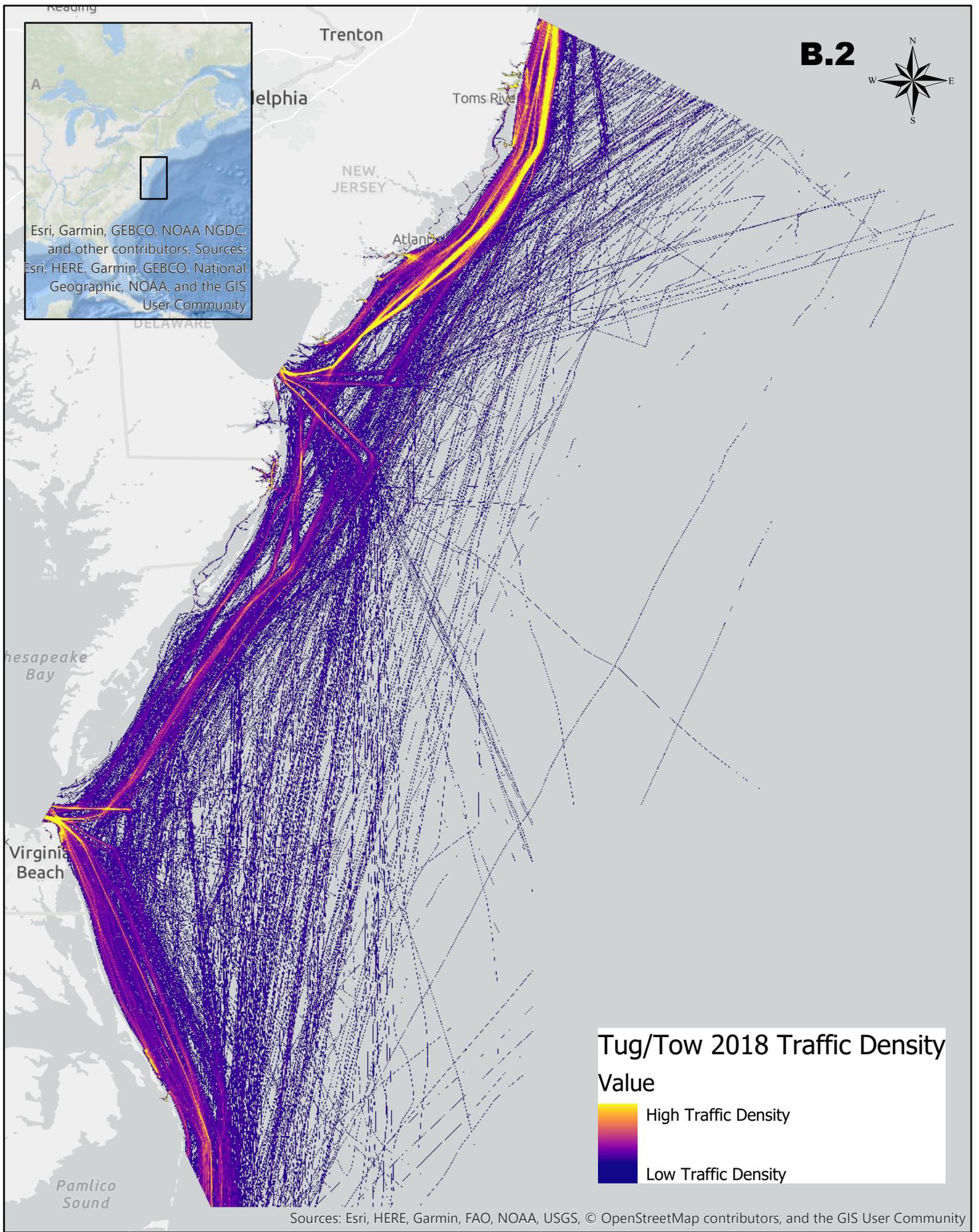




Coordinate System: GCS WGS 1984  
 Datum: WGS 1984  
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 Data Source: NAIS  
 Prepared by the CG NAVCEN

Scale: 1:2,318,117

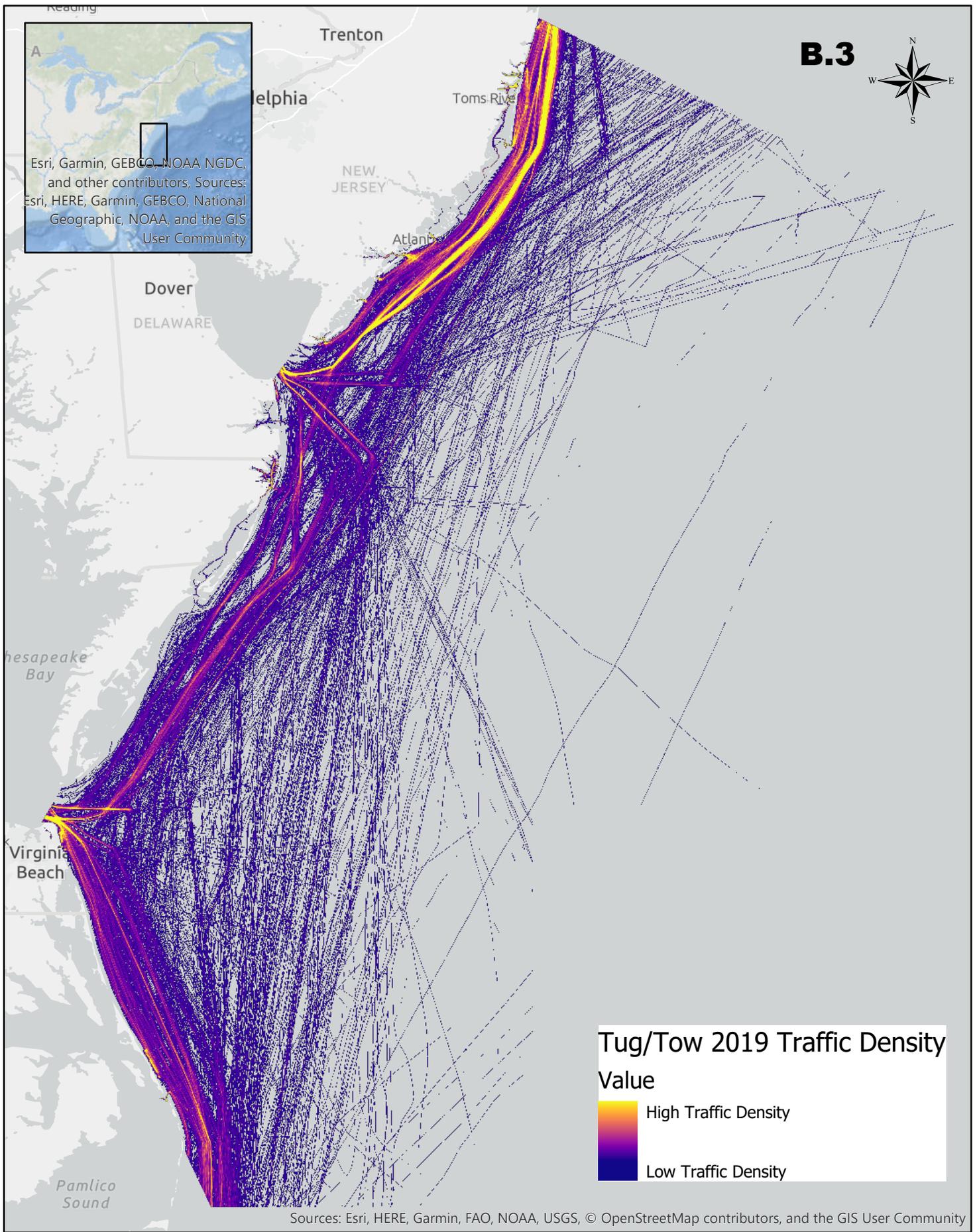
0 12 24 48 72 96 Nautical Miles



Coordinate System: GCS WGS 1984  
 Datum: WGS 1984  
 Units: Degree  
 Data Source: NAIS  
 Prepared by the CG NAVCEN

Scale: 1:2,318,117

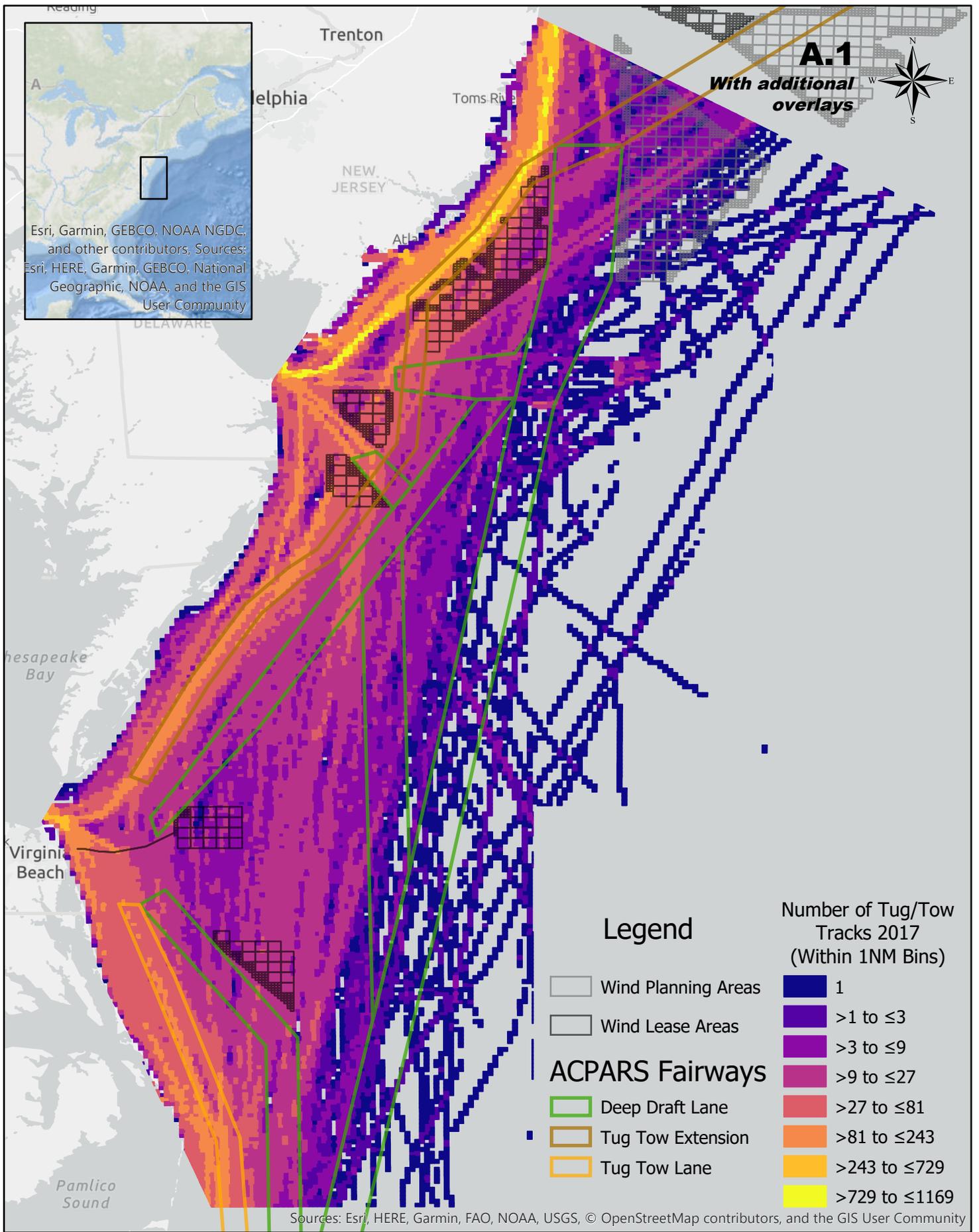
0 12 24 48 72 96 Nautical Miles



Coordinate System: GCS WGS 1984  
 Datum: WGS 1984  
 Units: Degree  
 Data Source: NAIS  
 Prepared by the CG NAVCEN

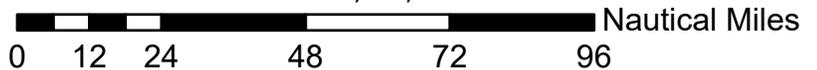
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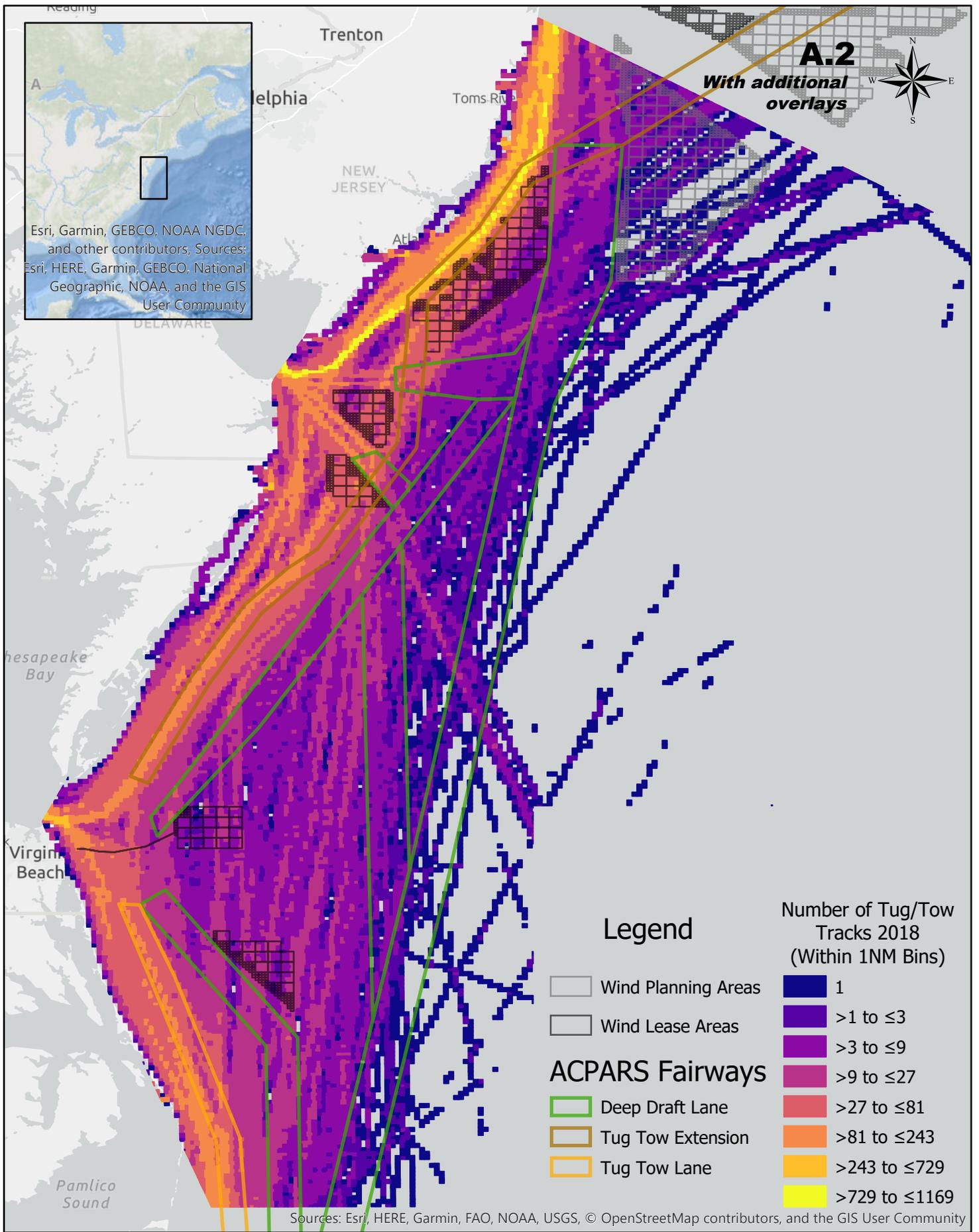
0 12 24 48 72 96 Nautical Miles



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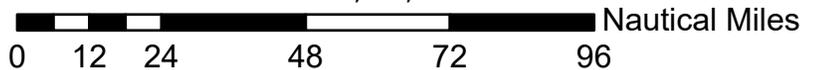
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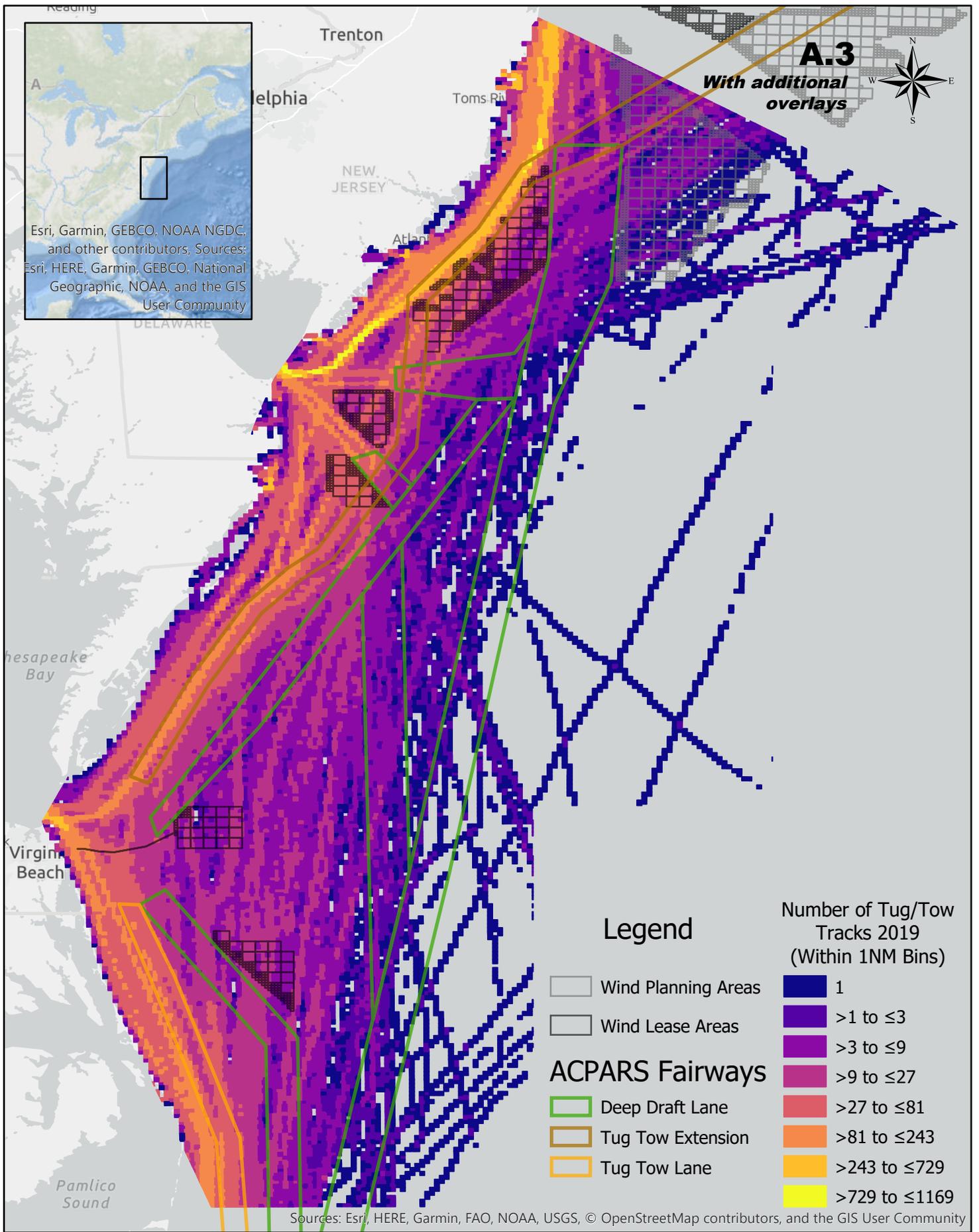




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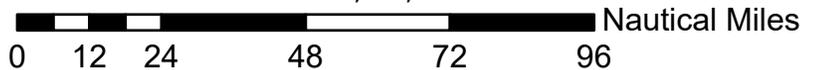
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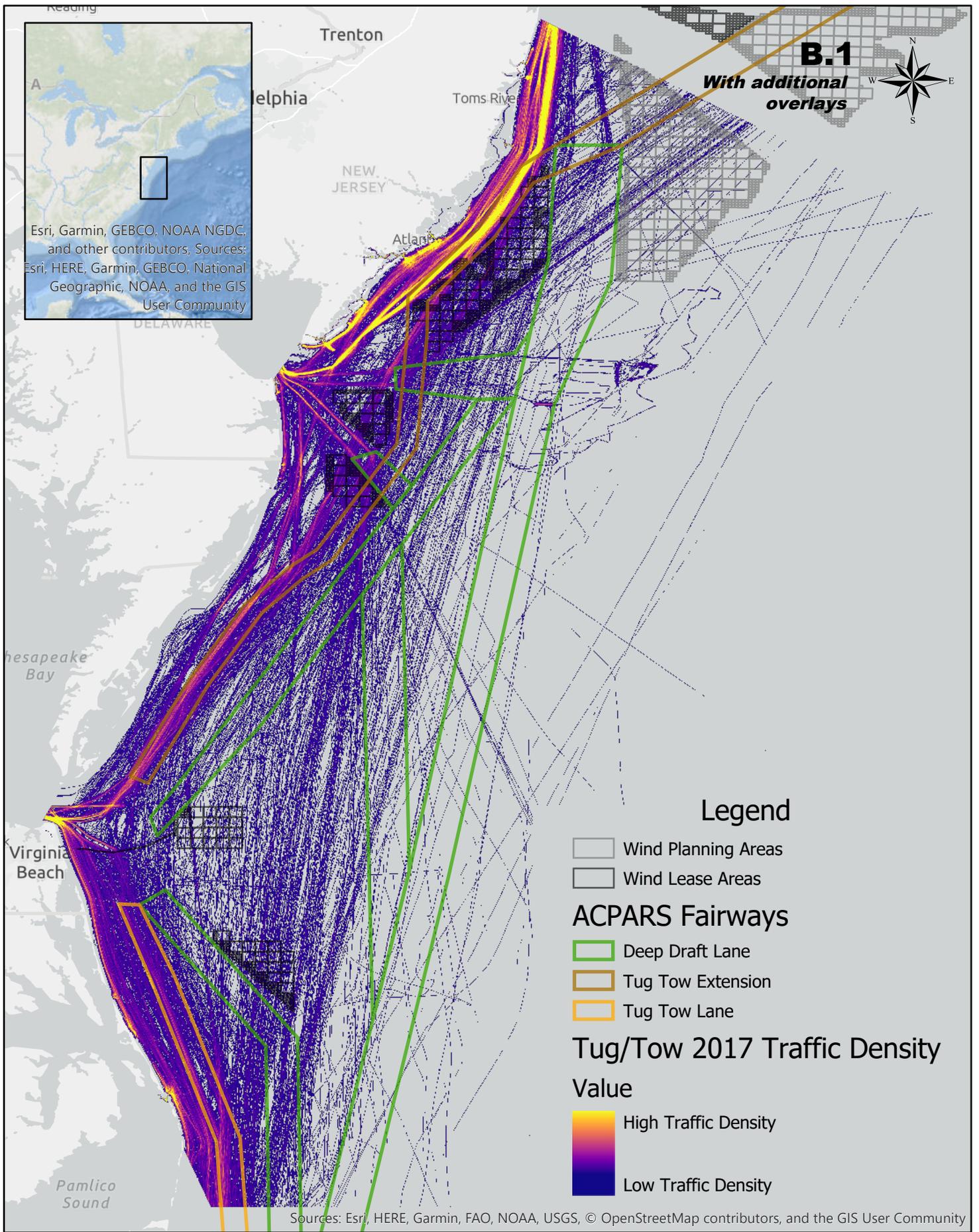




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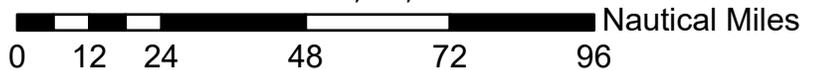
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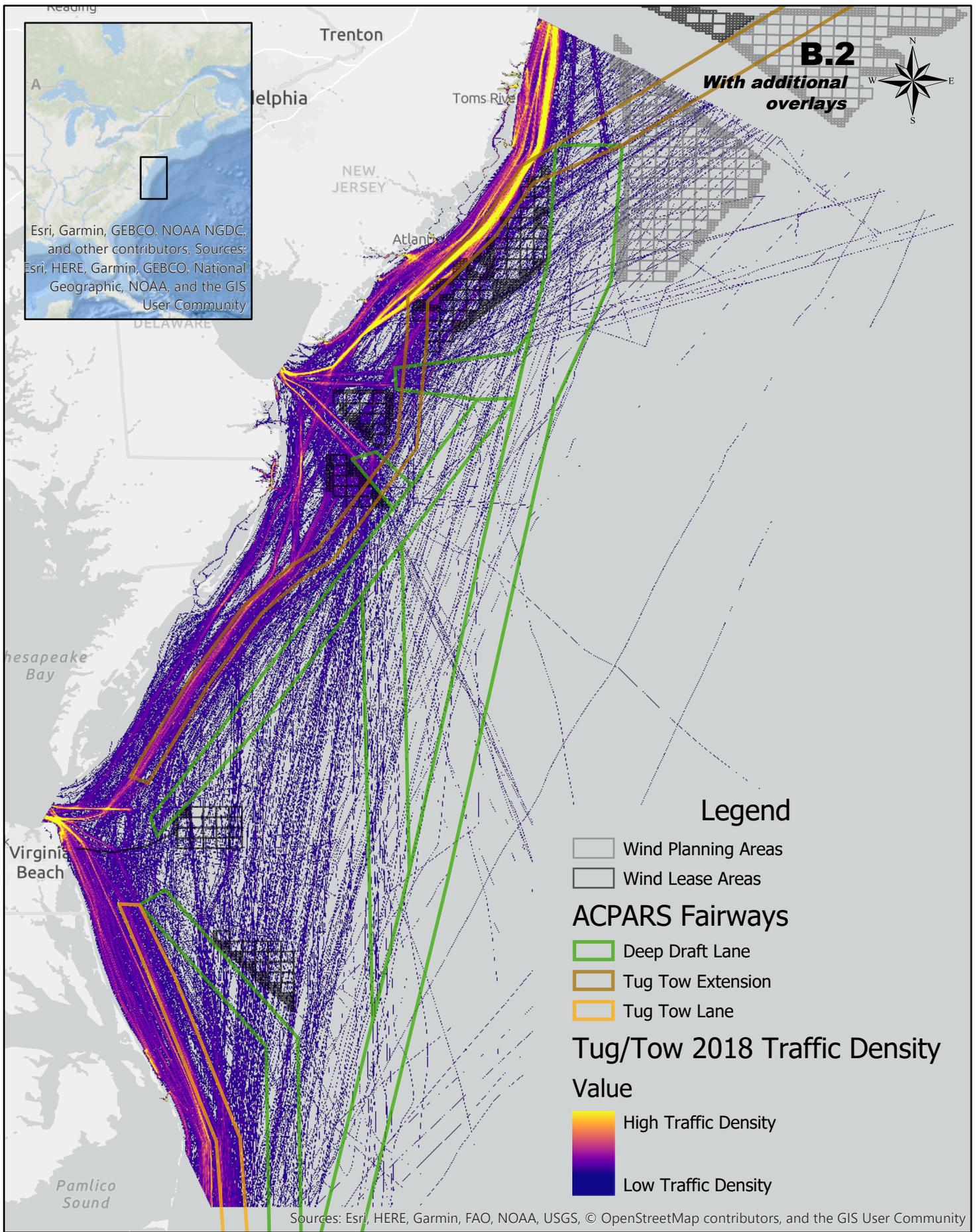




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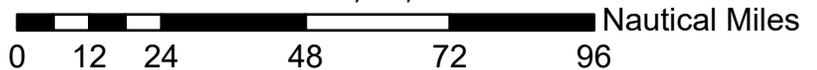
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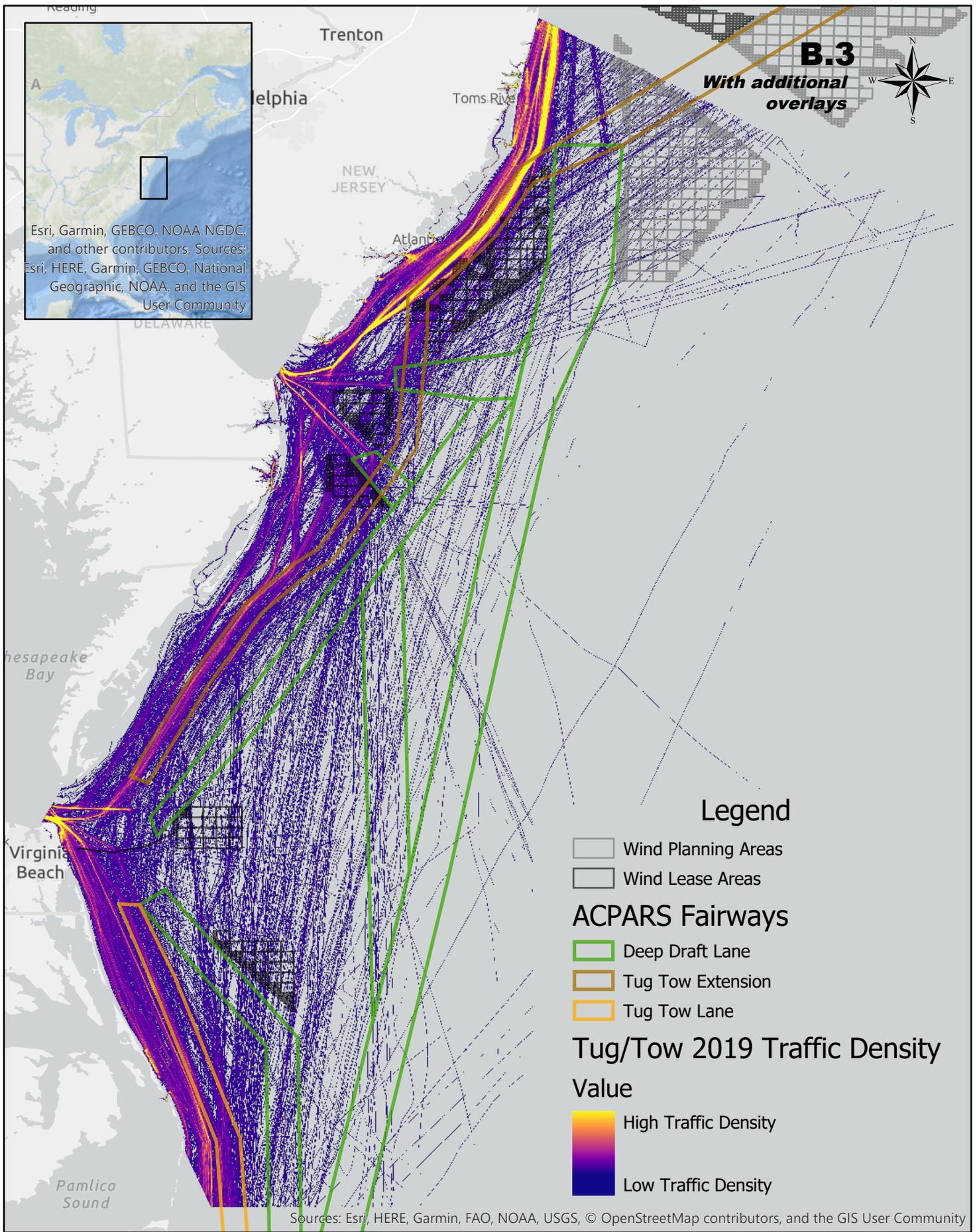




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