# Improving CG Decisions in the Marine Transportation System

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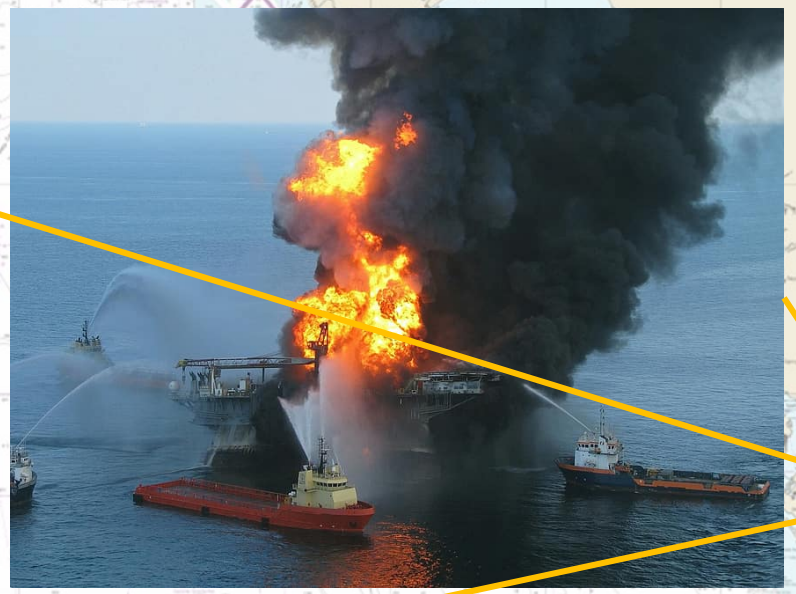
# Background



Credit to Gillfoto, https://creativecommons.org/licenses/by-sa/3.0/legalcode

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Geospatial Data

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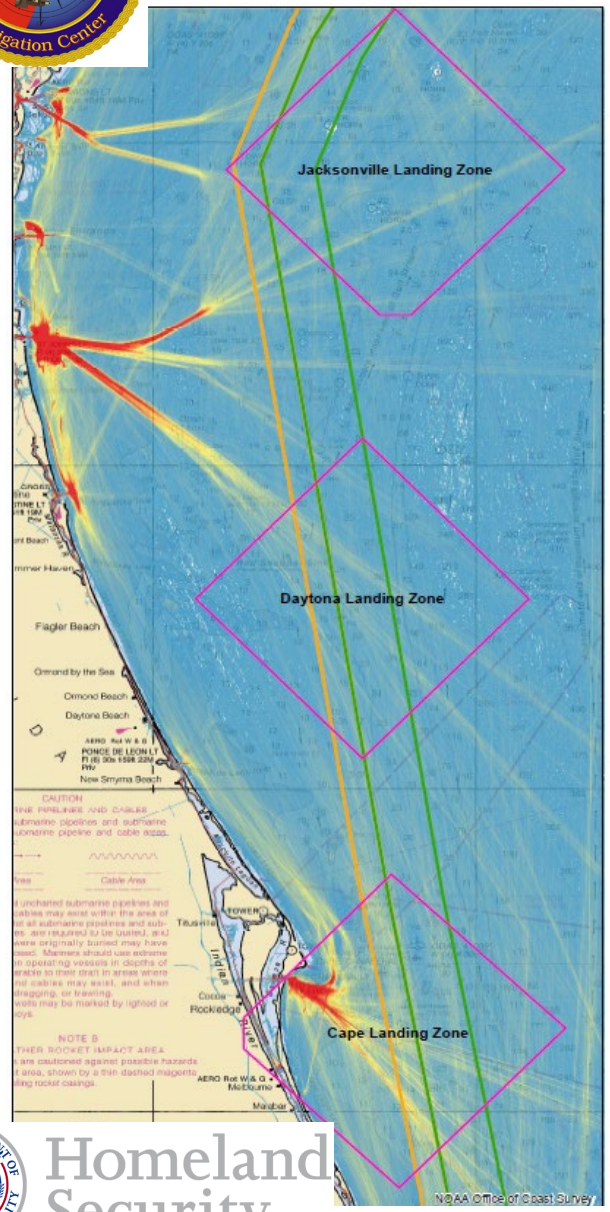
# Vision for the Division

**Expand upon current GIS and analysis capabilities and leverage modern data science models and tools to make better marine transportation system management decisions.**

# Current Methods – Space Module Landing Sites




Proposed Space Module Landing Sites

**Legend**

Proposed Space Module Landing Sites

**ACPARS Fairways**

**Type**

Deep Draft Lane

Tug Tow Lane

**All Vessels Density**

**Value**

High

Low

1:1,500,000

0 5 10 20 30 40 Nautical Miles

Coordinate System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Prepared by: CG NAVCEN

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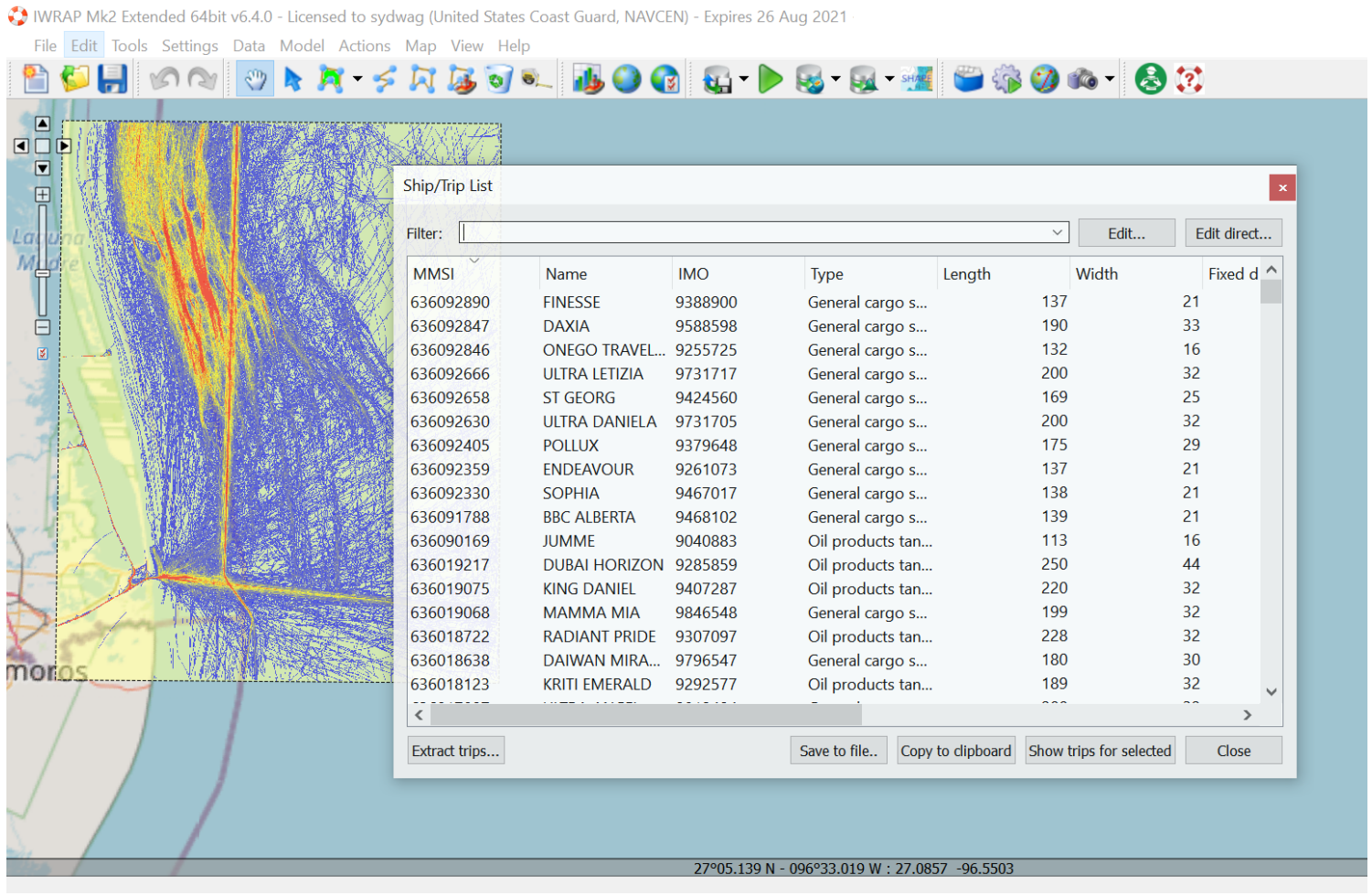


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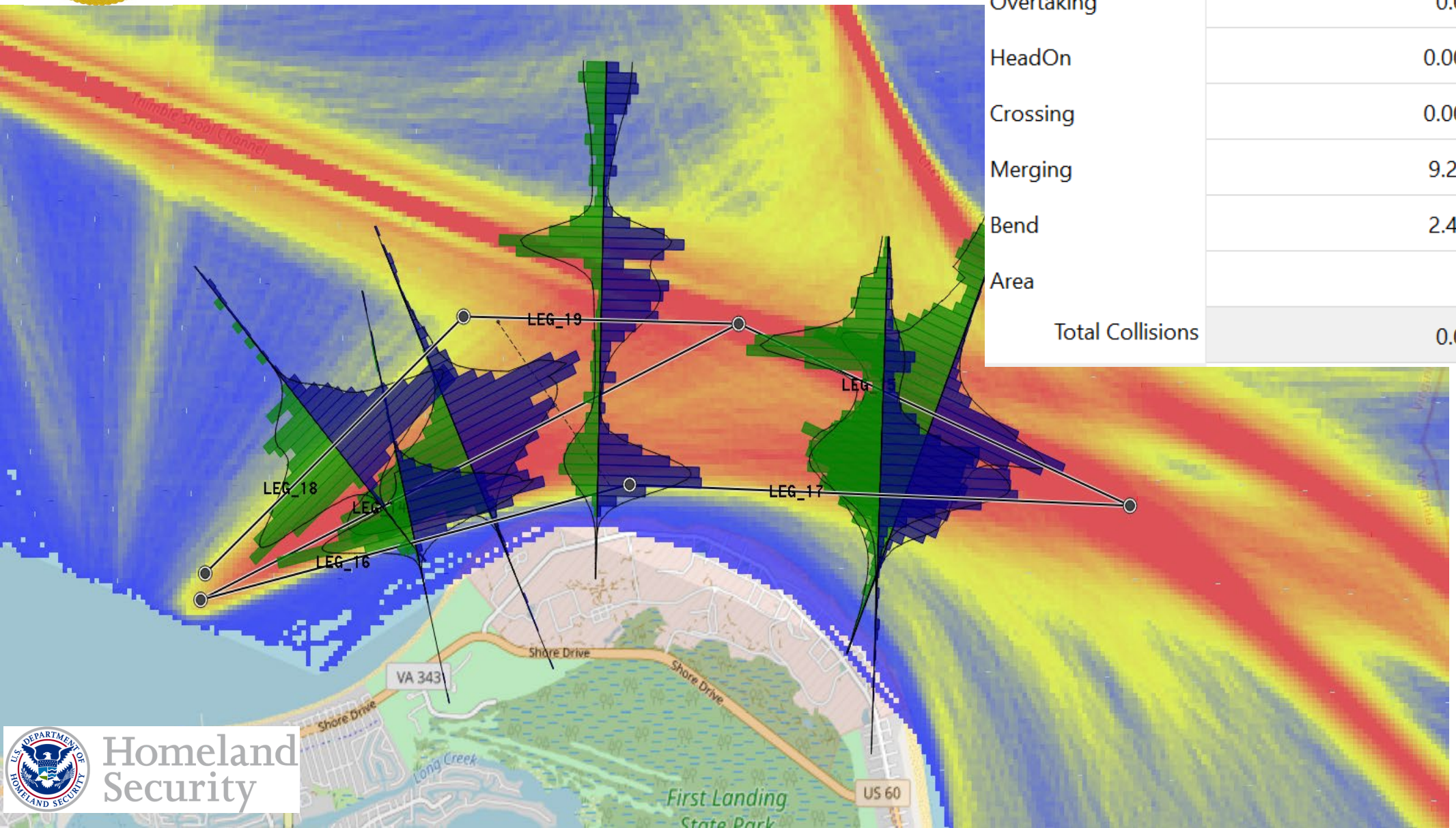
# Current Methods – IWRAP Modeling Capabilities




| | | |
|---|---|---|
| Overtaking | 0.000286 | Incidents/Year |
| HeadOn | 0.0006322 | Incidents/Year |
| Crossing | 0.0004452 | Incidents/Year |
| Merging | 9.266e-06 | Incidents/Year |
| Bend | 2.422e-05 | Incidents/Year |
| Area | --- | Incidents/Year |
| Total Collisions | 0.001397 | Incidents/Year |

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# IWRAP Strengths & Weaknesses

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# Future Methods

# Questions?

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