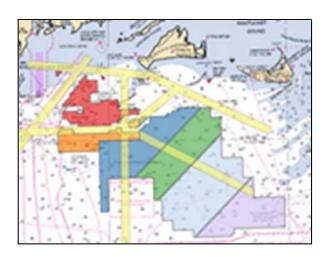


NOAAFISHERIES

Greater Atlantic Regional Fisheries Office



Vessel Transit Patterns: AIS and VMS Data

Douglas W. Christel Benjamin Galuardi

December 3, 2018

Parameters:

- 100 m grid cells
- >5 knots is transiting

Limitations:

Only required for vessels >65' (avg. NE vessel: 45')

Does not include recreational vessels

Can be turned off

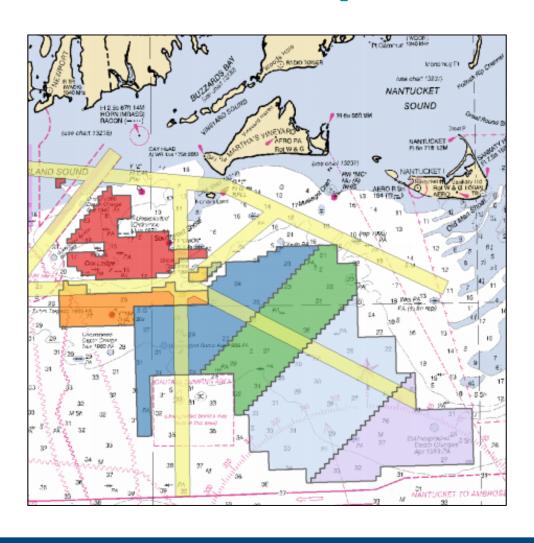


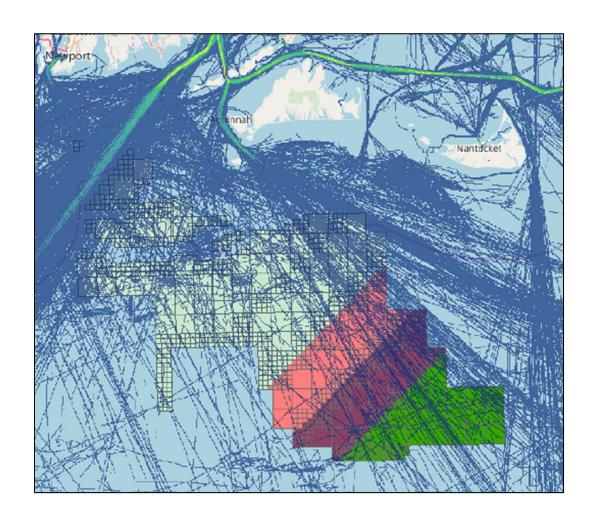
https://www.northeastoceandata.org/data-explorer/

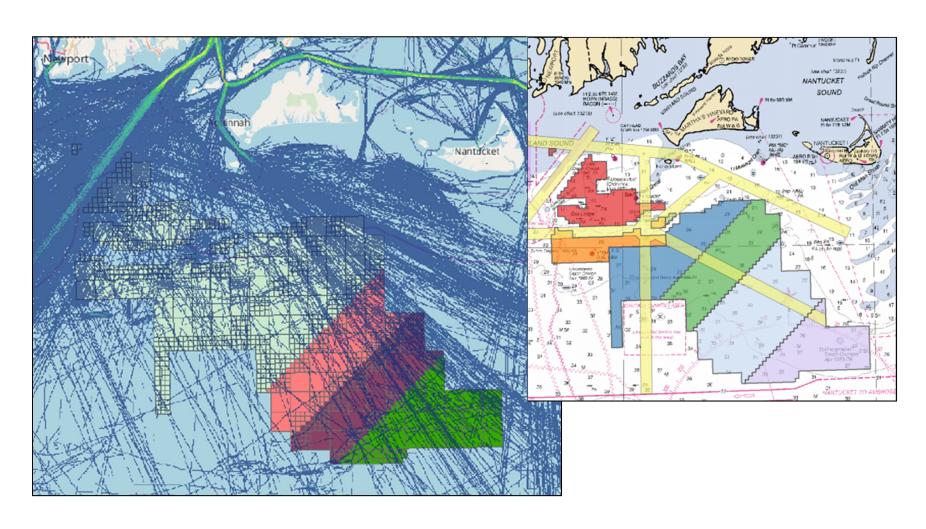


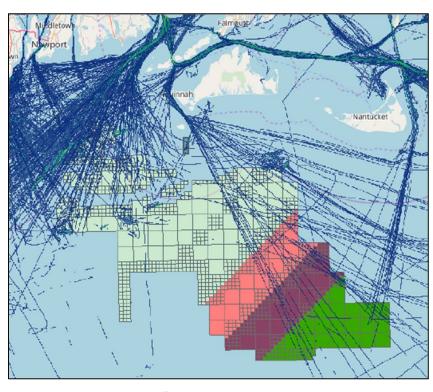
Protect, Save, Defend, and Enforce

Transit Proposal

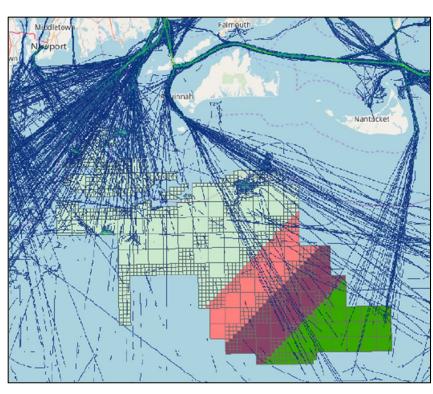




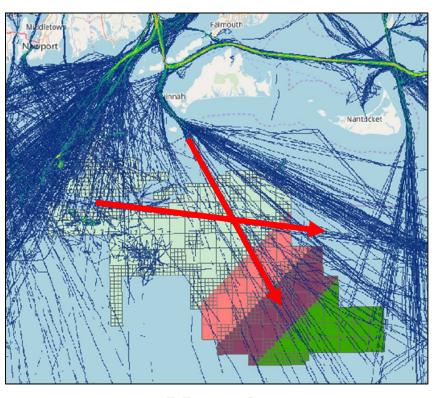




January



February



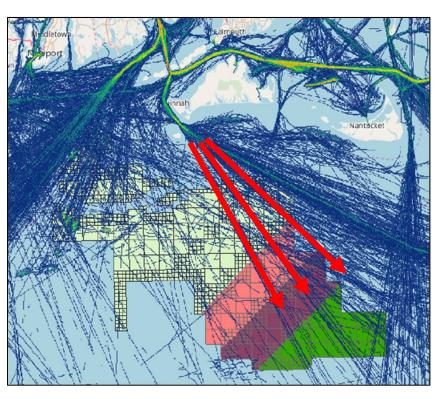
Nantacket

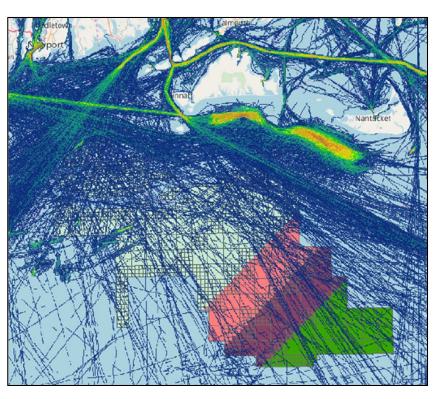
Falmouth

Nantacket

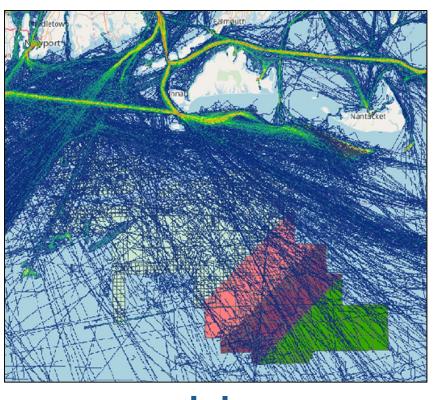
March

April





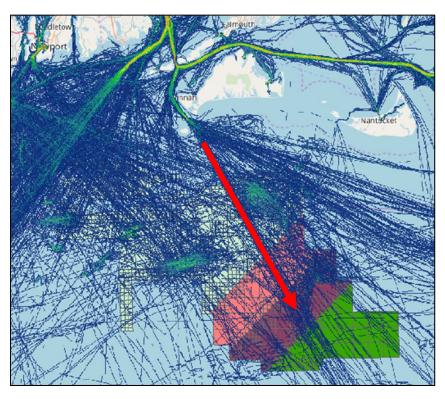
May June



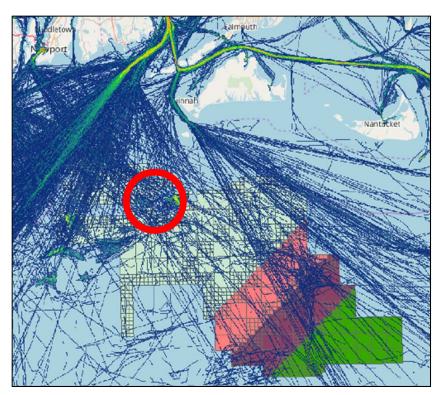
Real neutring to the second of the second of

July

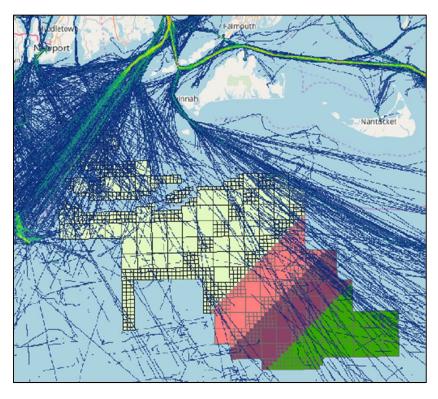
August



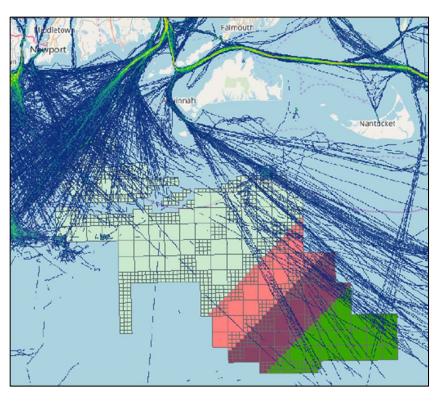
September



October

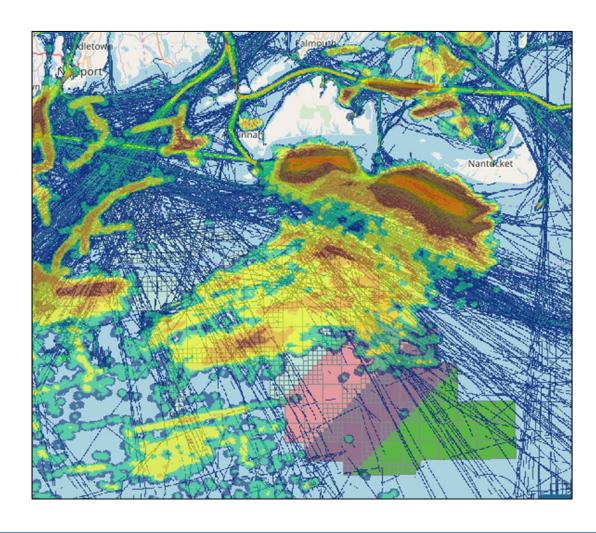


November



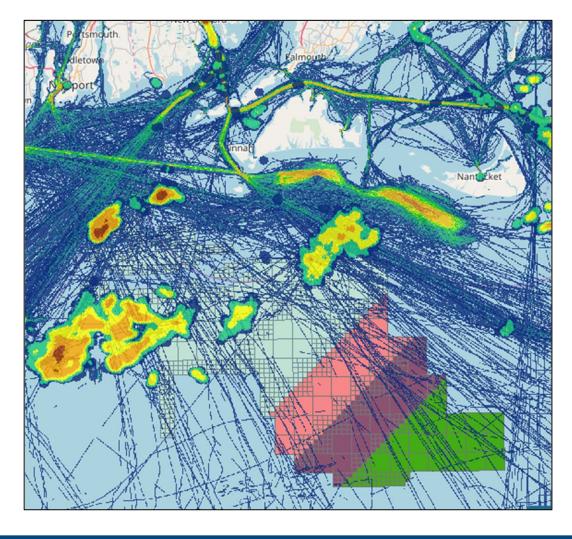
December





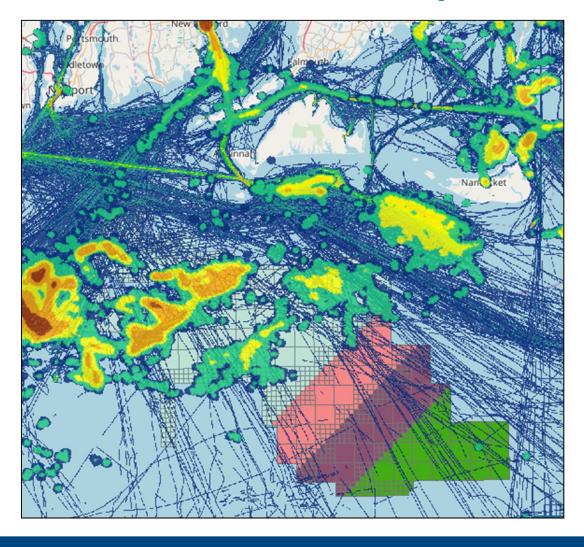




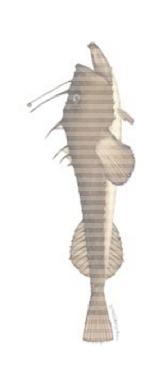


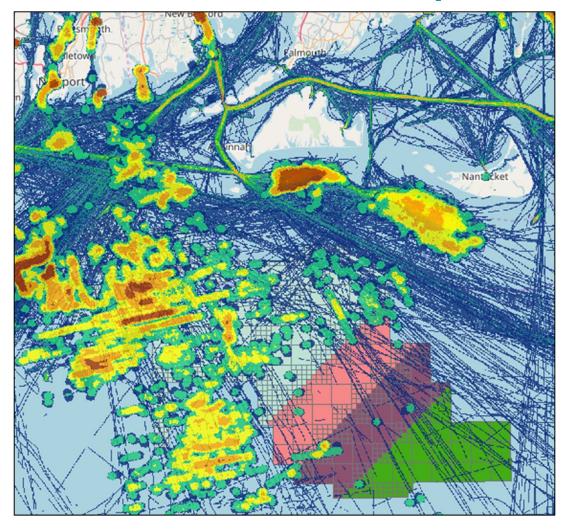






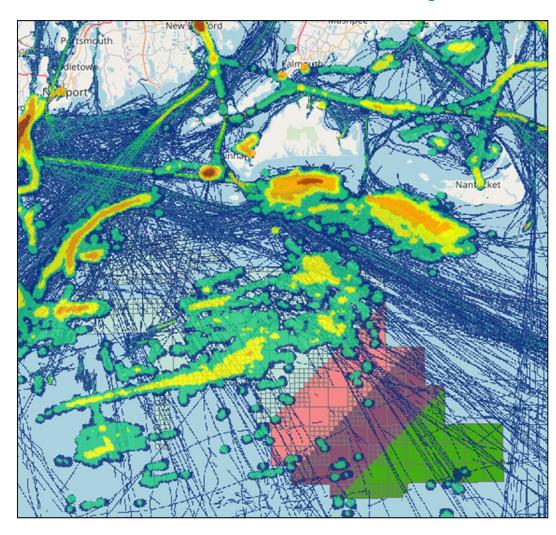






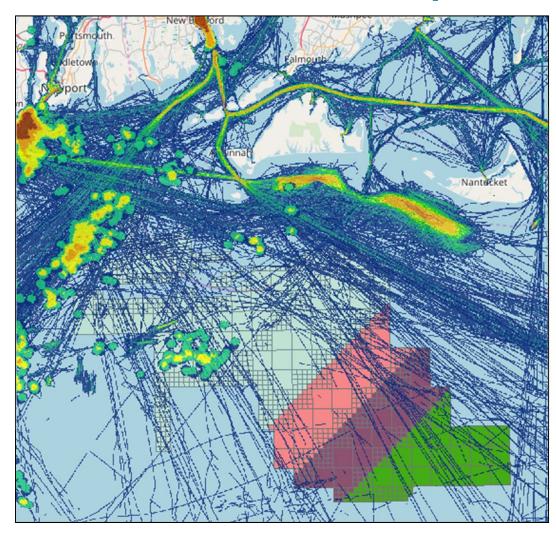














VMS Totals Maps

Parameters:

- Includes transit and fishing
- 5 nm grid cells
- Effort in hours/cell
- Cells with <3 unique permits are masked
- All fisheries codes are included

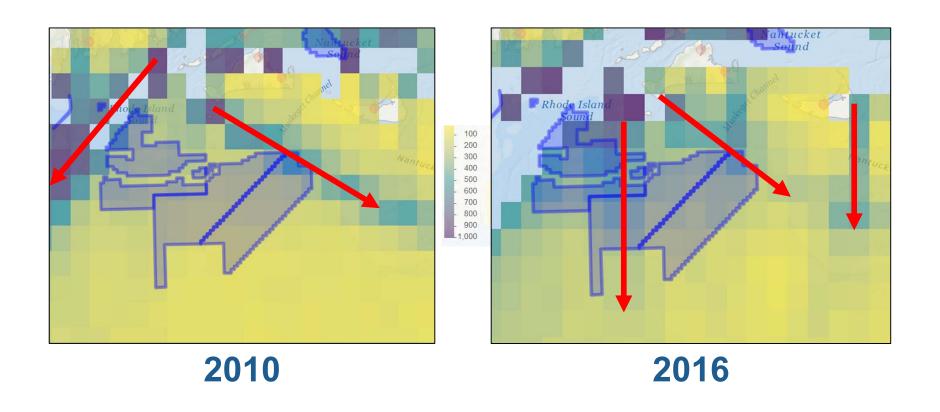
Limitations:

- Resolution (5 nm grids)
- No recreational vessels
- Fine scale maps require more time

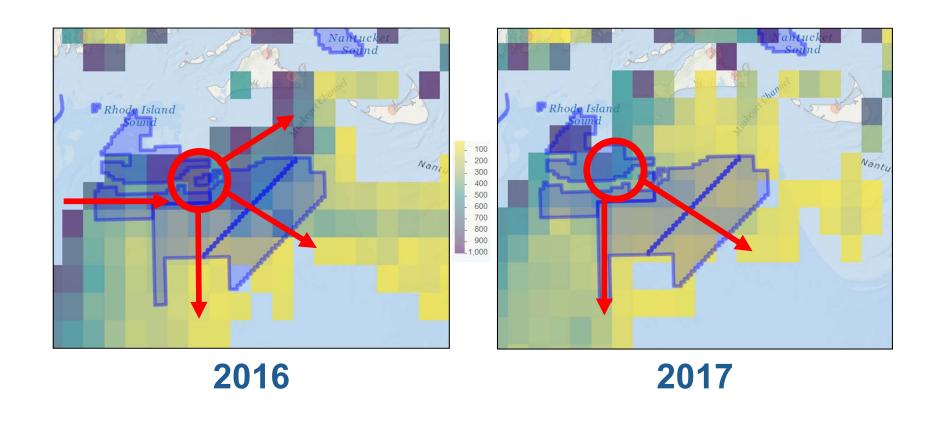




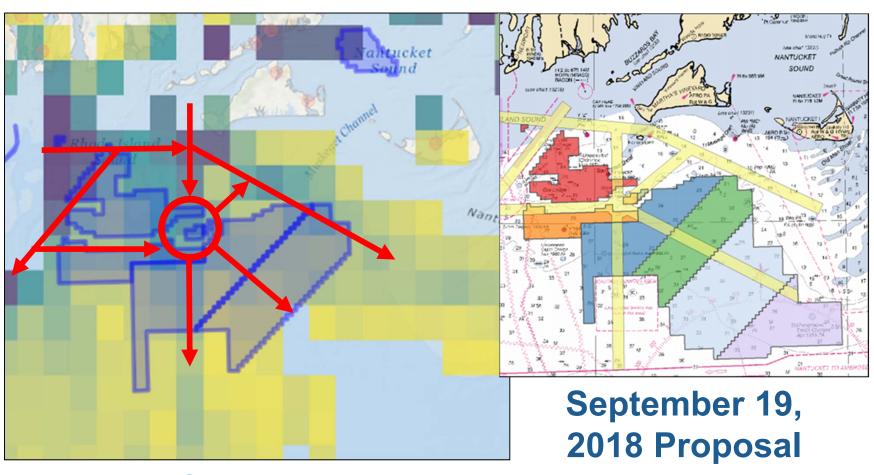
VMS Totals Maps



VMS Totals Maps



VMS Totals Comparison



DOF 2013

Evidence of Consistency



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Thank you! Questions?

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