

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2010

3D Relative Risk Profile Comparison
Vessel Time Exposure

**CASE P: BASE CASE & Reduction Human Error
Incident on Oil Barges by 50%**

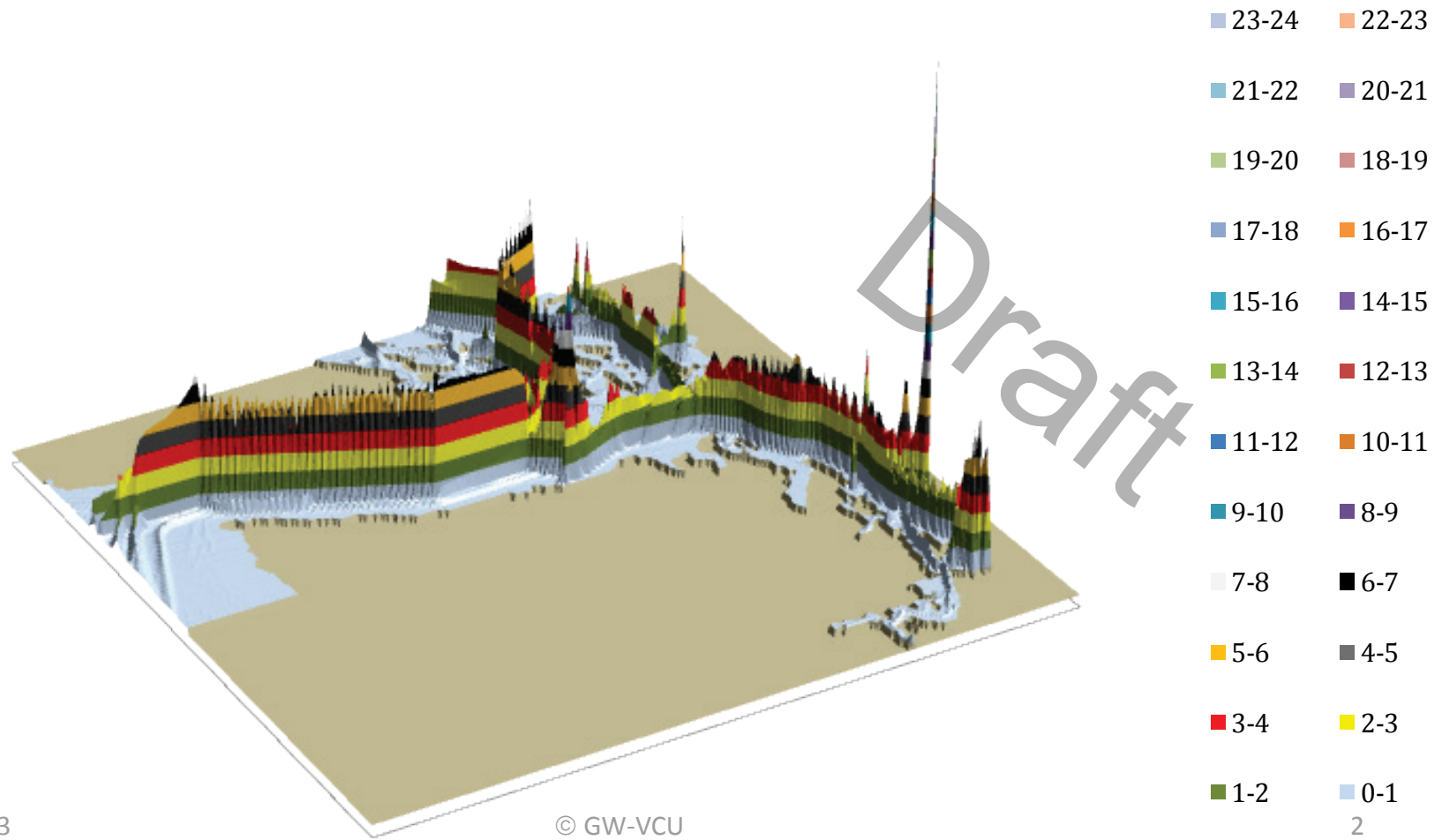
Dr. J. Rene van Dorp and Dr. Jason R.W Merrick

November 2013



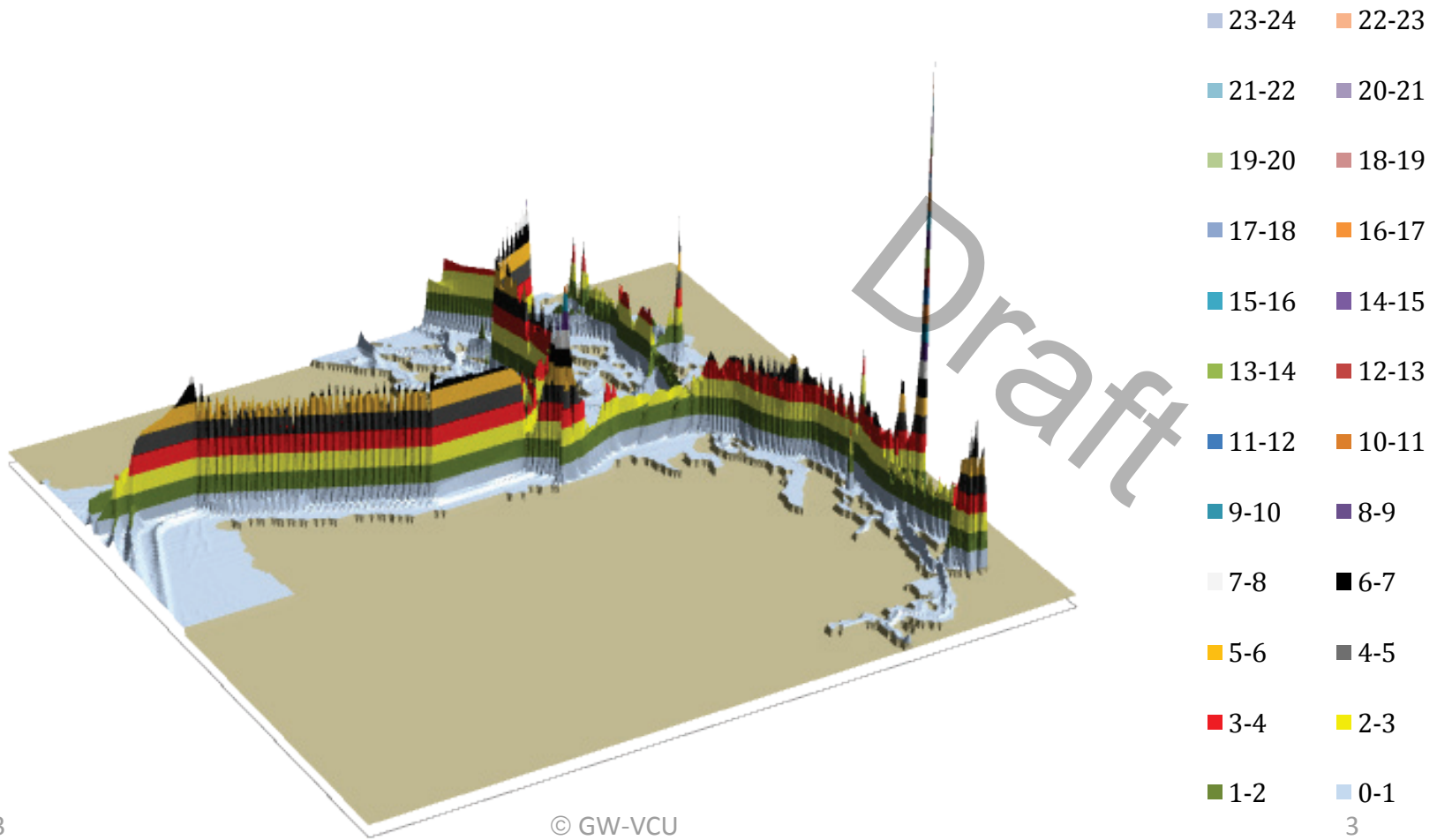
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P: Base Case 3D Risk Profile All FV - Vessel Time Exposure: 100% of Base Case VTE



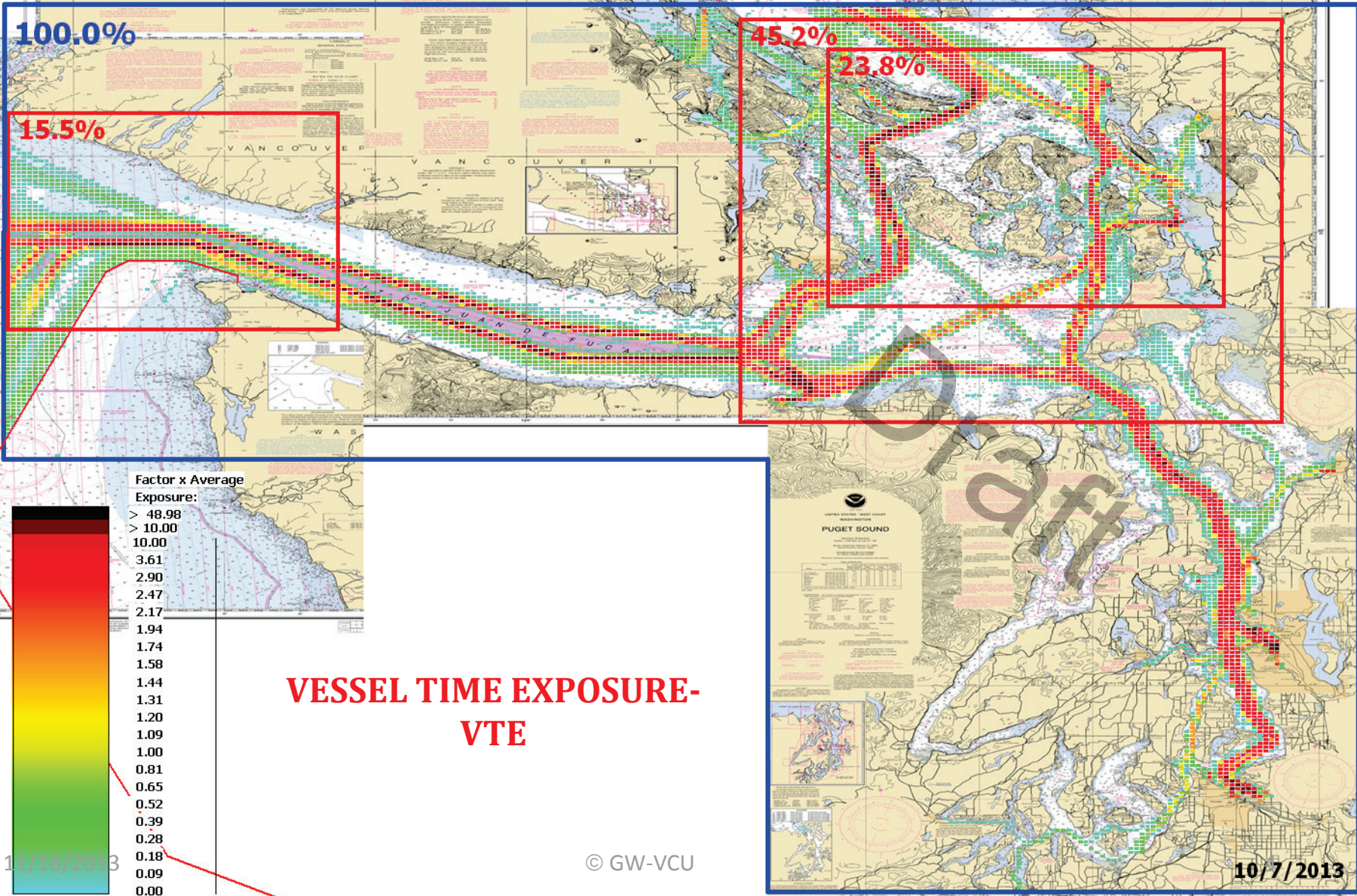
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P: BC & OB HE50 3D Risk Profile All FV - Vessel Time Exposure: 100% of Base Case VTE



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P: VTRA 2010 - BASE CASE - All FV



100.0%

15.5%

45.2%

23.8%

Factor x Average Exposure:

- > 48.98
- > 10.00
- 10.00
- 3.61
- 2.90
- 2.47
- 2.17
- 1.94
- 1.74
- 1.58
- 1.44
- 1.31
- 1.20
- 1.09
- 1.00
- 0.81
- 0.65
- 0.52
- 0.39
- 0.28
- 0.18
- 0.09
- 0.00

VESSEL TIME EXPOSURE- VTE

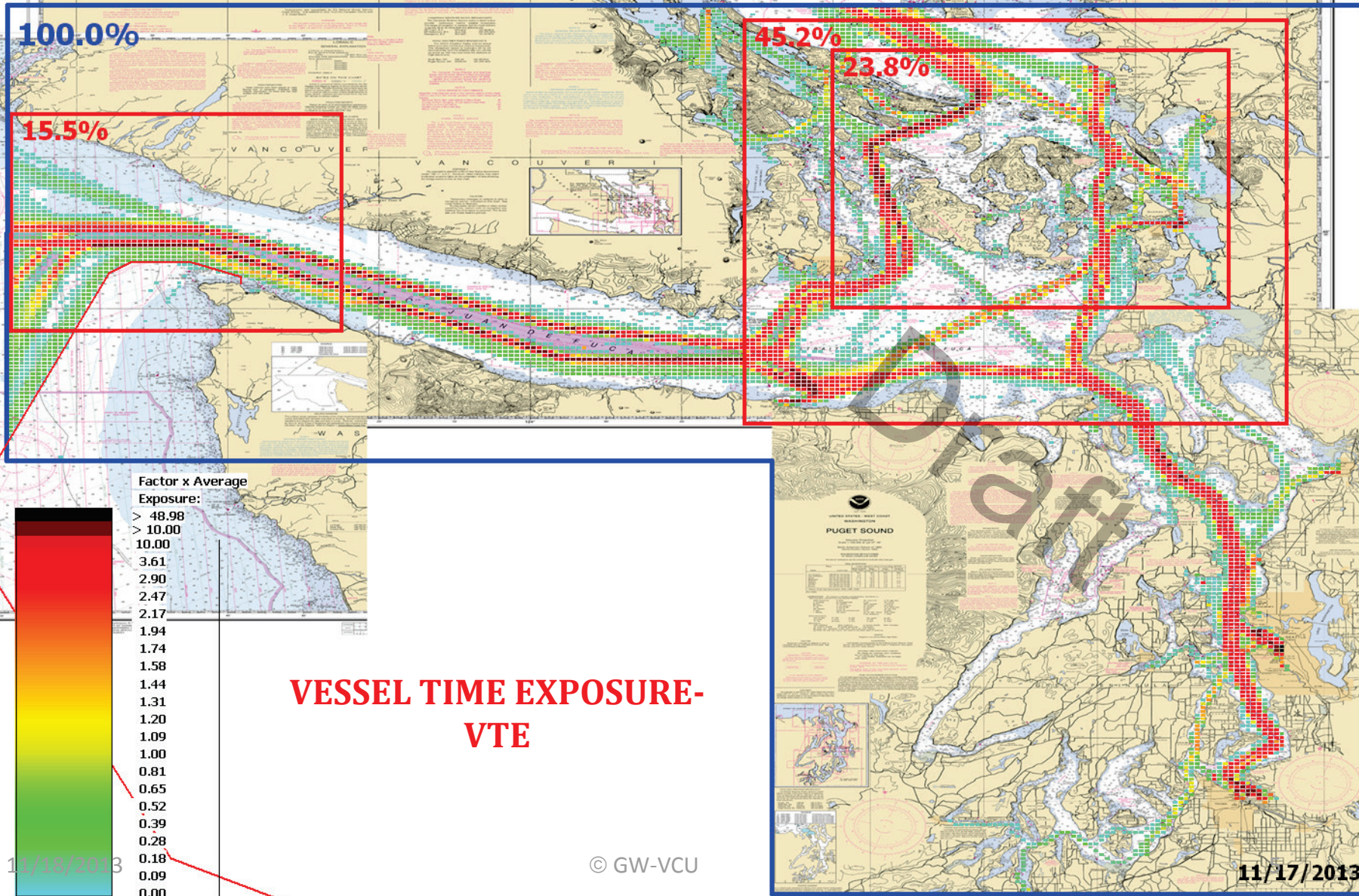
11/18/2013

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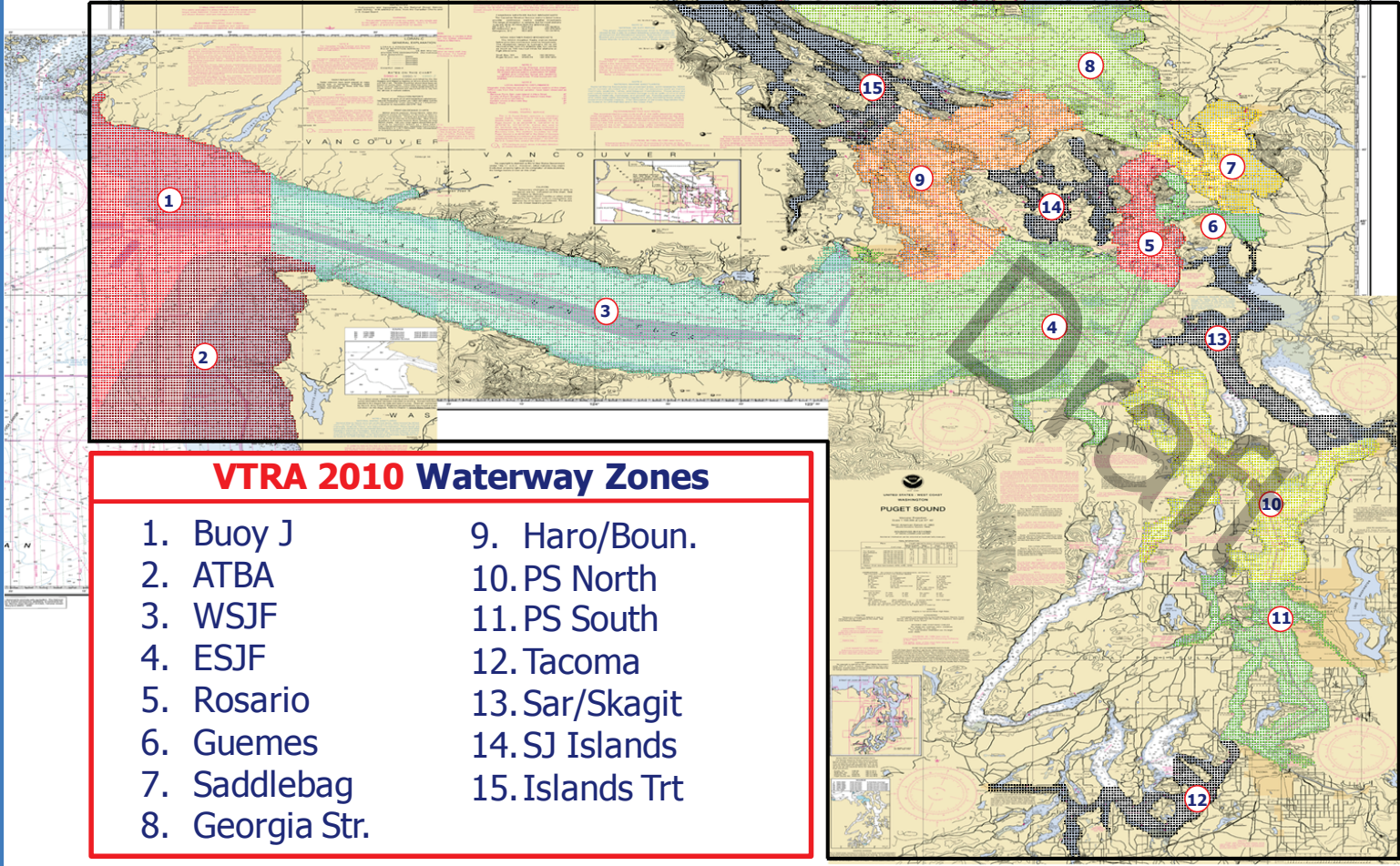
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P: VTRA 2010 - BASE CASE & HUMAN ERROR OIL BARGE @ 50% - All FV



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DEFINITION OF 15 WATERWAY ZONES



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2010

% Base Case Vessel Time Exposure (VTE) - ALL_FV

Waterway Zone:

