

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2010

3D Relative Risk Profile Comparison
Oil Time Exposure

**CASE P: BASE CASE & Reduction Human Error
Incident on Oil Barges by 100%**

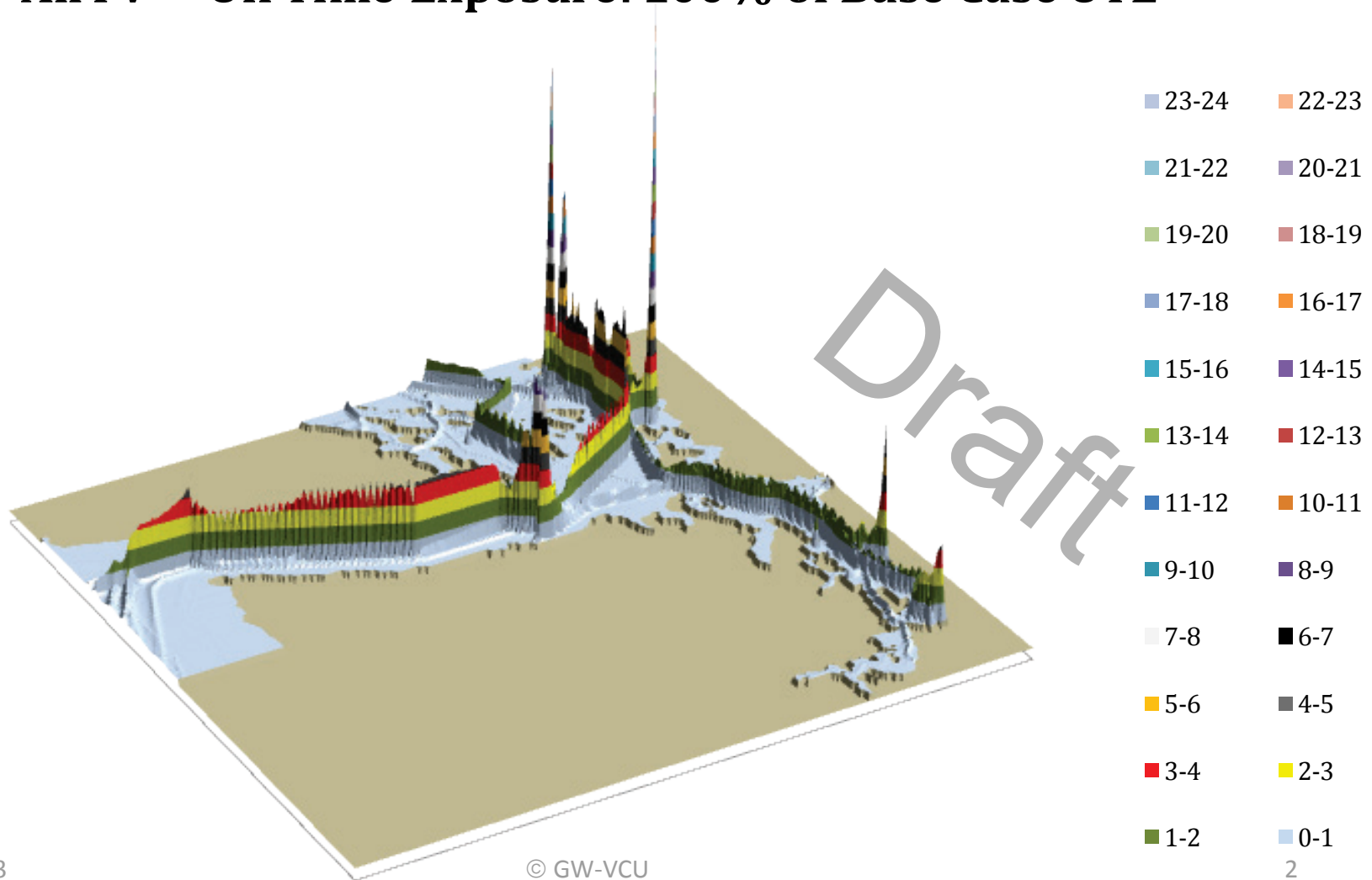
Dr. J. Rene van Dorp and Dr. Jason R.W Merrick

November 2013



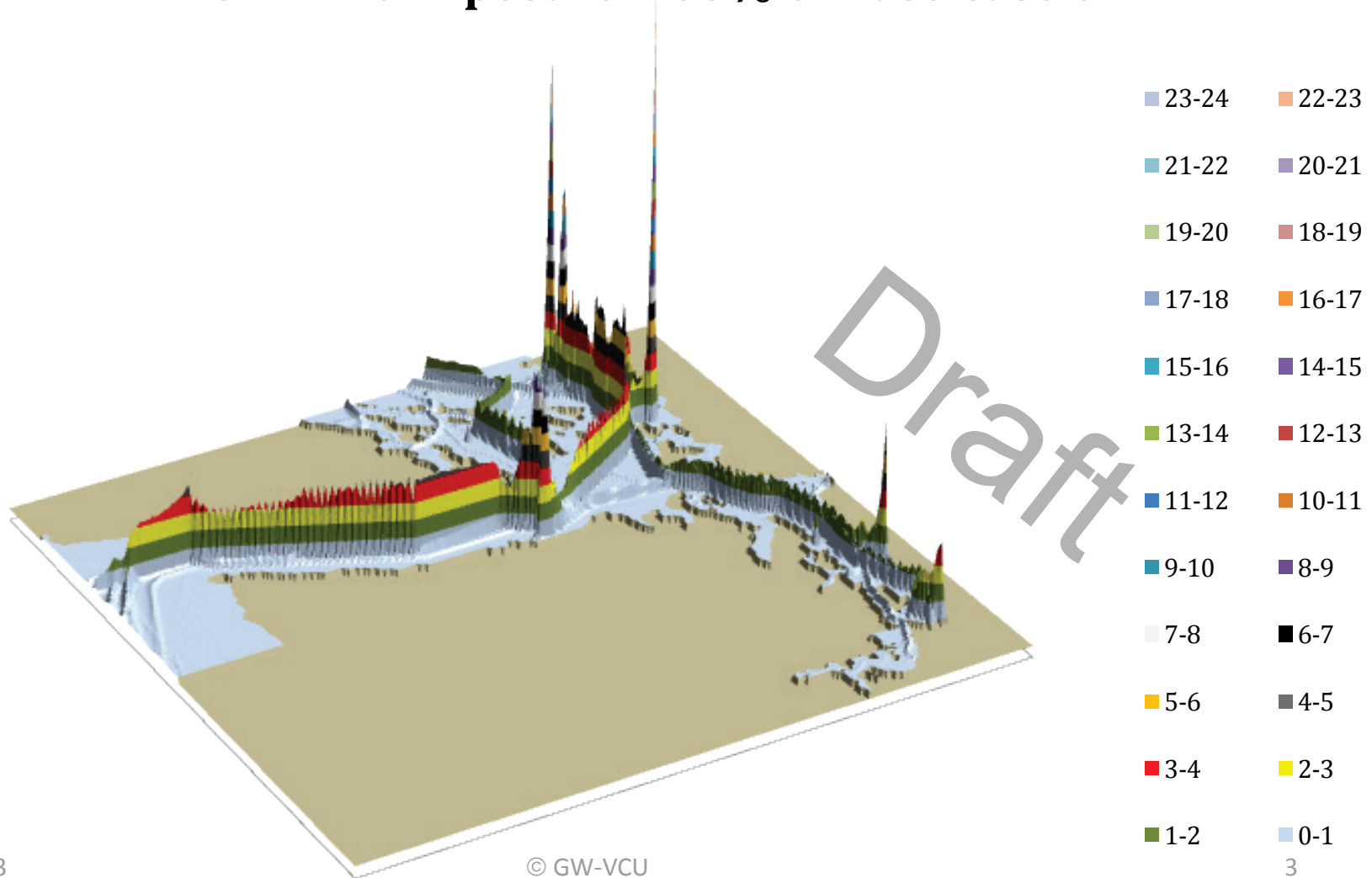
VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2010

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



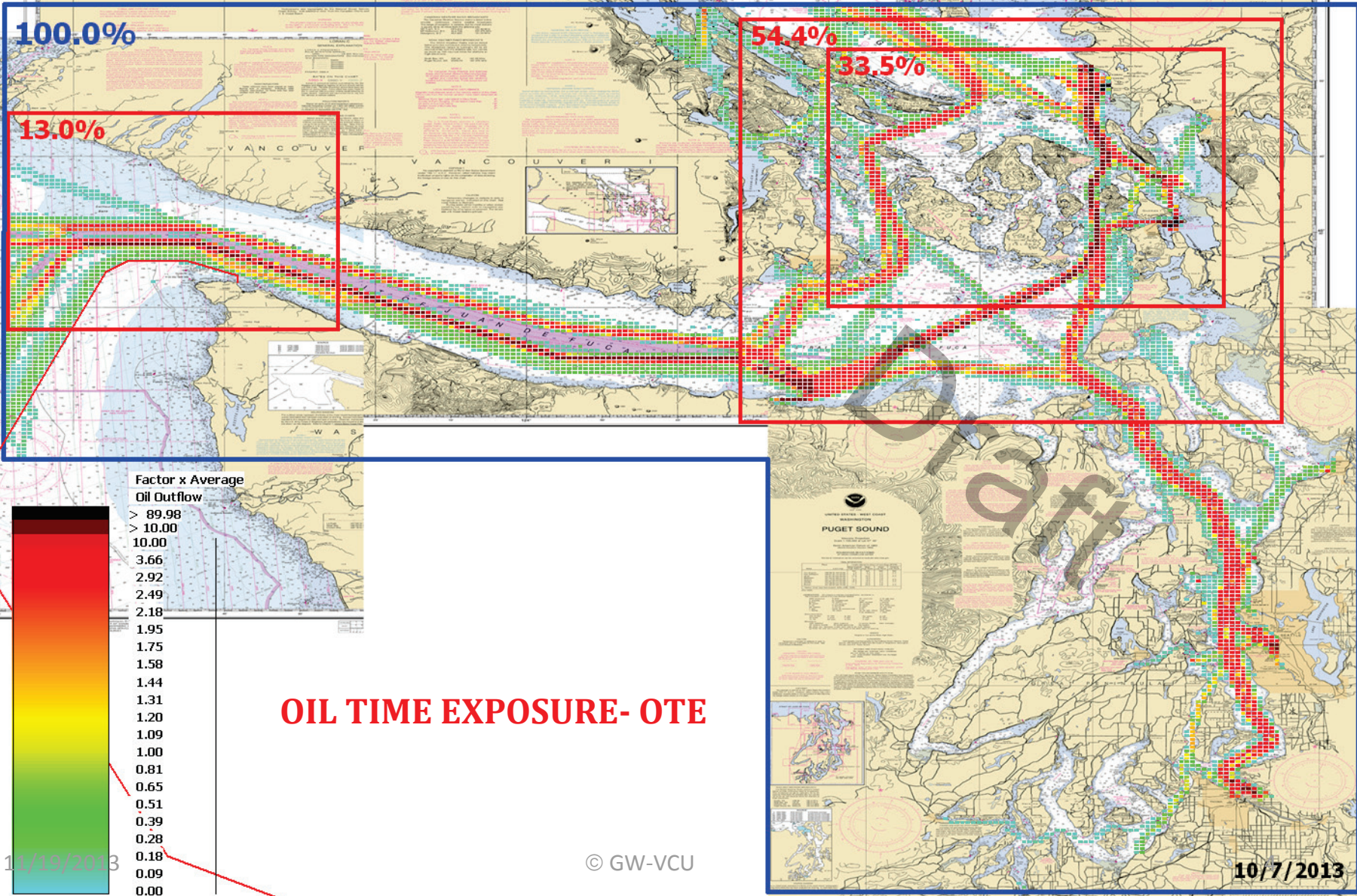
VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2010

P: BC & OB HE100 3D Risk Profile All FV - Oil Time Exposure: 100% of Base Case OTE



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2010

P: VTRA 2010 - BASE CASE - All FV



100.0%

13.0%

54.4%

33.5%

Factor x Average
Oil Outflow

- > 89.98
- > 10.00
- 10.00
- 3.66
- 2.92
- 2.49
- 2.18
- 1.95
- 1.75
- 1.58
- 1.44
- 1.31
- 1.20
- 1.09
- 1.00
- 0.81
- 0.65
- 0.51
- 0.39
- 0.28
- 0.18
- 0.09
- 0.00

OIL TIME EXPOSURE- OTE

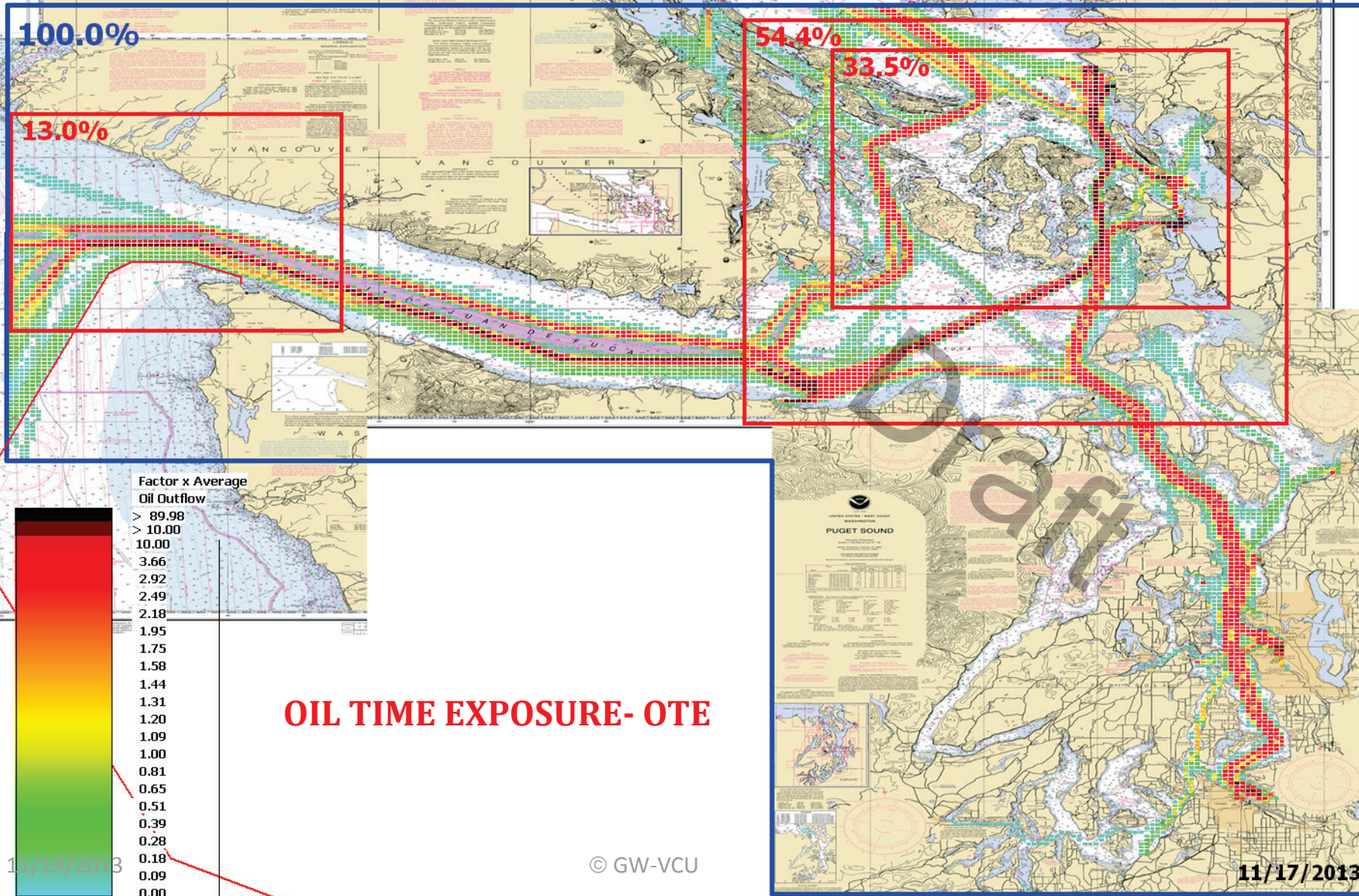
11/19/2013

© GW-VCU

10/7/2013

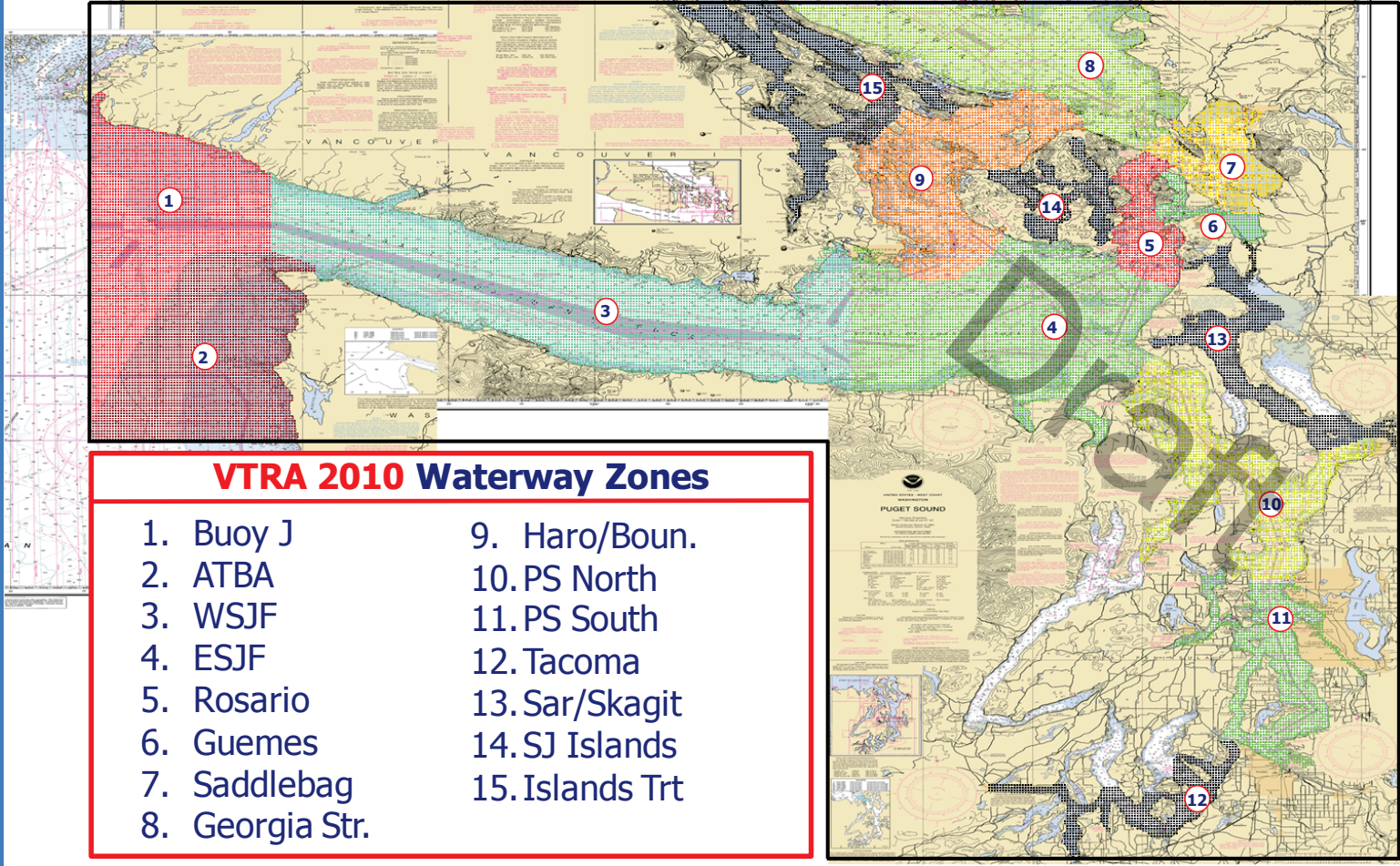
VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2010

P: VTRA 2010 - BASE CASE & HUMAN ERROR OIL BARGE @ 0% - All FV



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2010

DEFINITION OF 15 WATERWAY ZONES



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2010

% Base Case Oil Time Exposure - ALL_FV

Waterway Zone:

