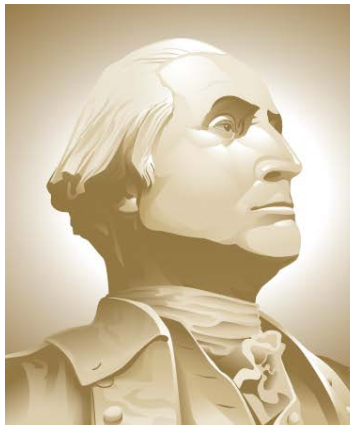


Paired Comparison of following VTRA 2015 Cases:

1. '15 Base Case to USKCA1600 and
2. USKCA1600 to USKCA1600 - SRT



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UNIVERSITY**

WASHINGTON, DC

VCU

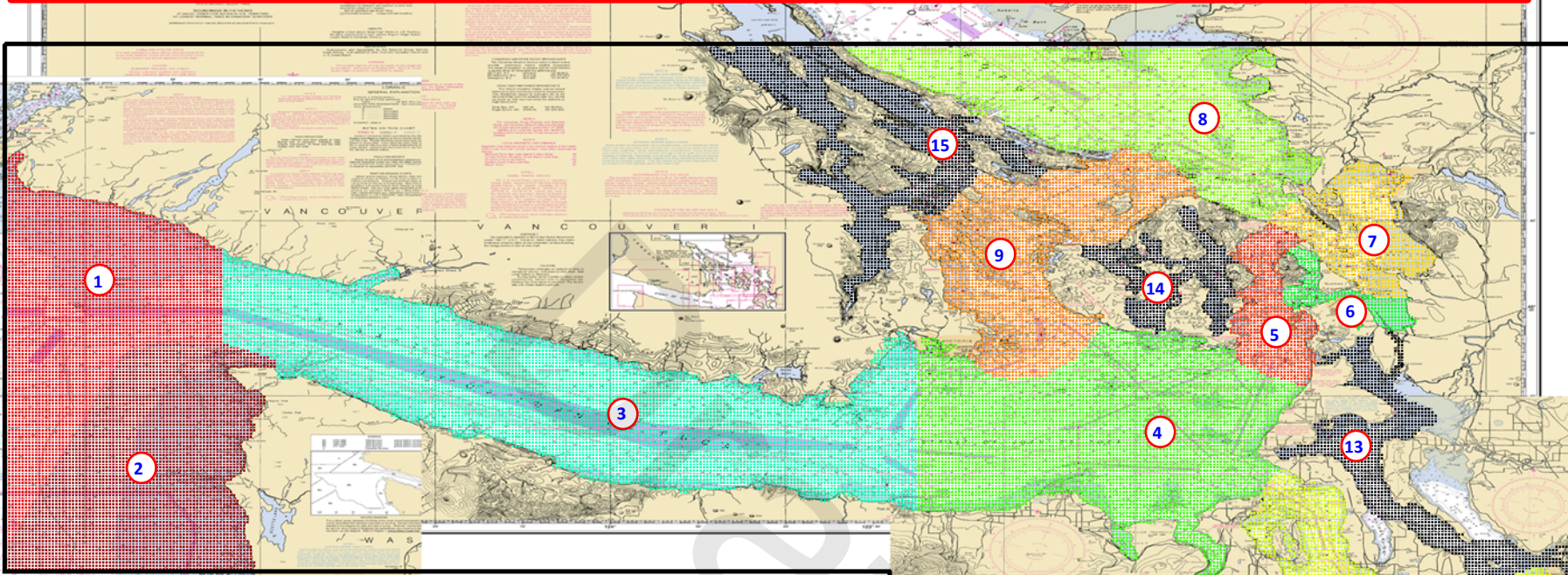
Jason R.W. Merrick (VCU) and J. Rene van Dorp (GW)

September, 2016

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

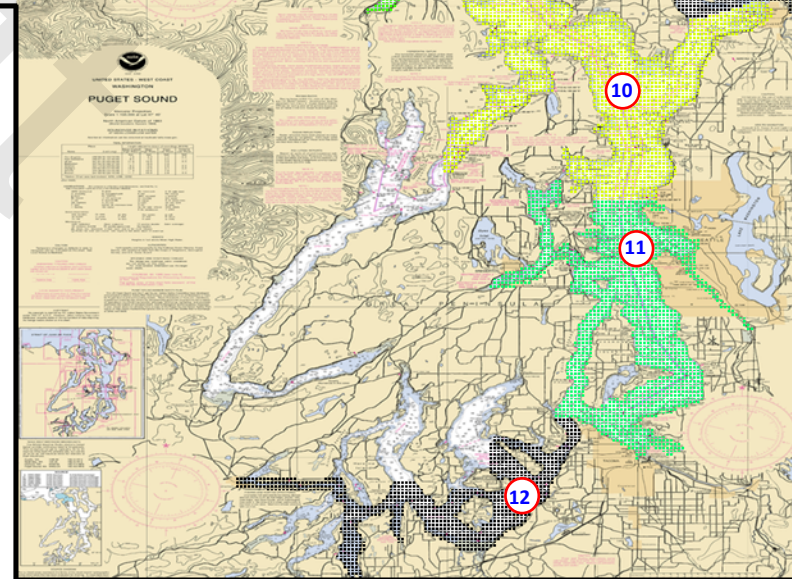


DEFINITION OF 15 WATERWAY ZONES

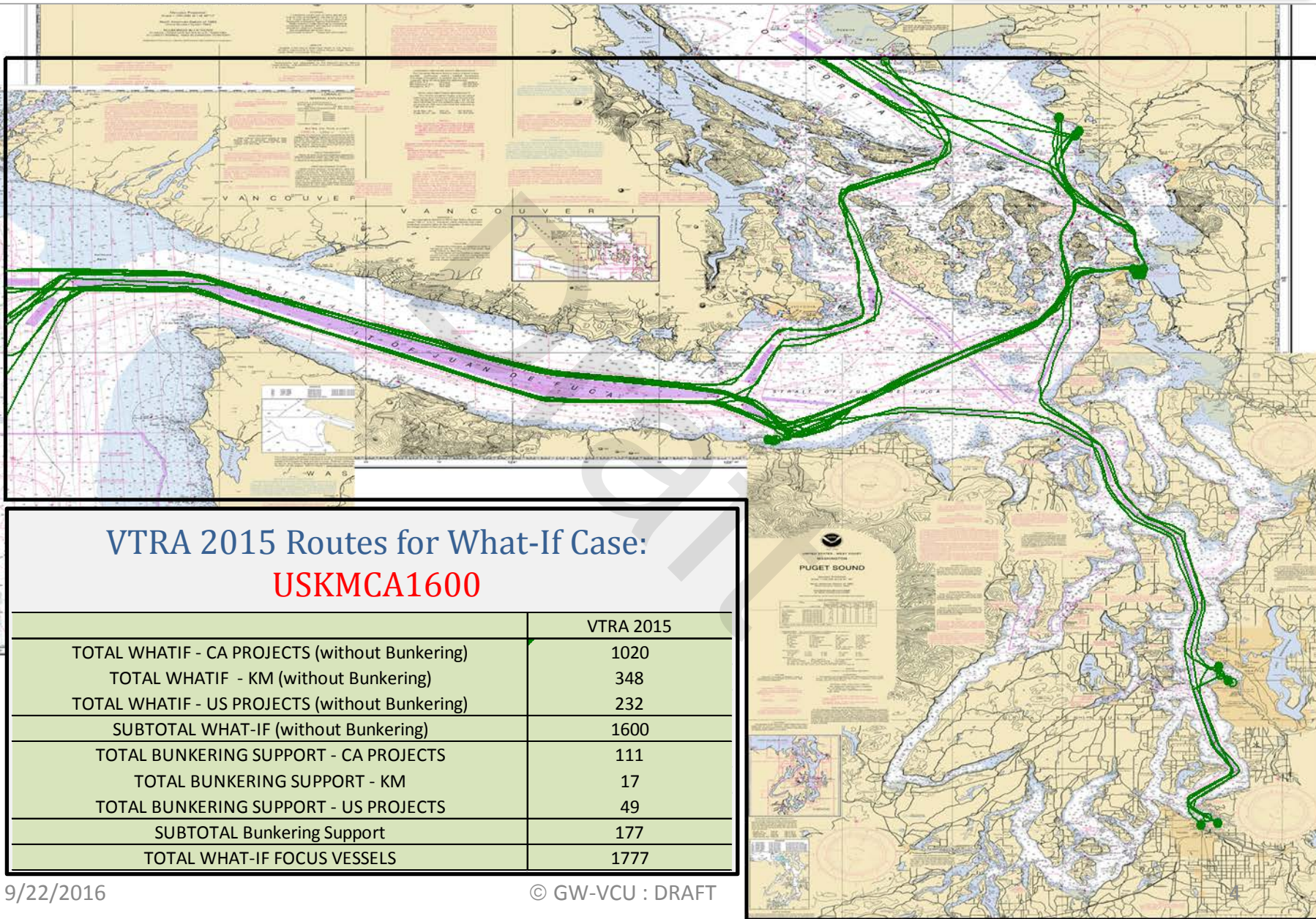


VTRA 2015 Waterway Zones

- | | |
|-----------------|---------------------------|
| 1. Buoy J | 9. Haro/Boun. |
| 2. ATBA | 10. PS North |
| 3. WSJF | 11. PS South |
| 4. ESJF | 12. Tacoma |
| 5. Rosario | 13. Sar/Skagit |
| 6. Guemes | 14. SJ Islands |
| 7. Saddlebag | 15. Southern Gulf Islands |
| 8. Georgia Str. | |



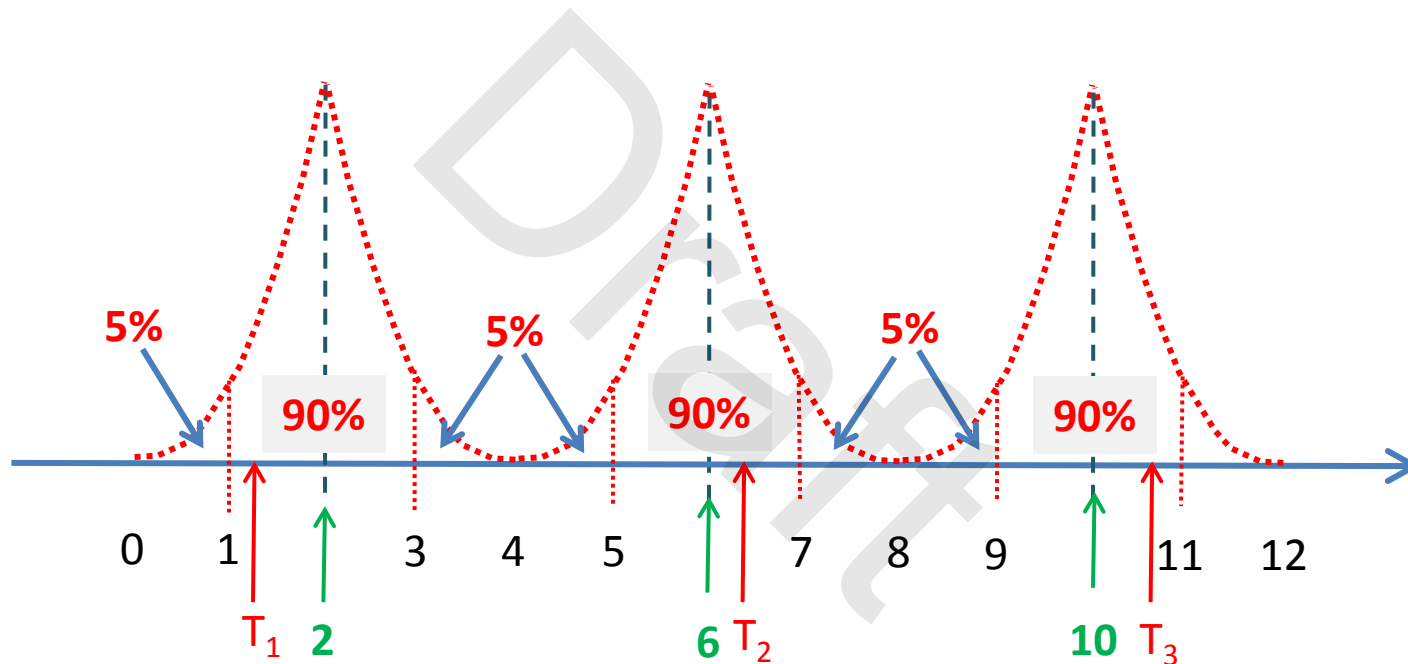
VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



VTRA 2015 Routes for What-If Case: USKMCA1600

	VTRA 2015
TOTAL WHATIF - CA PROJECTS (without Bunkering)	1020
TOTAL WHATIF - KM (without Bunkering)	348
TOTAL WHATIF - US PROJECTS (without Bunkering)	232
SUBTOTAL WHAT-IF (without Bunkering)	1600
TOTAL BUNKERING SUPPORT - CA PROJECTS	111
TOTAL BUNKERING SUPPORT - KM	17
TOTAL BUNKERING SUPPORT - US PROJECTS	49
SUBTOTAL Bunkering Support	177
TOTAL WHAT-IF FOCUS VESSELS	1777

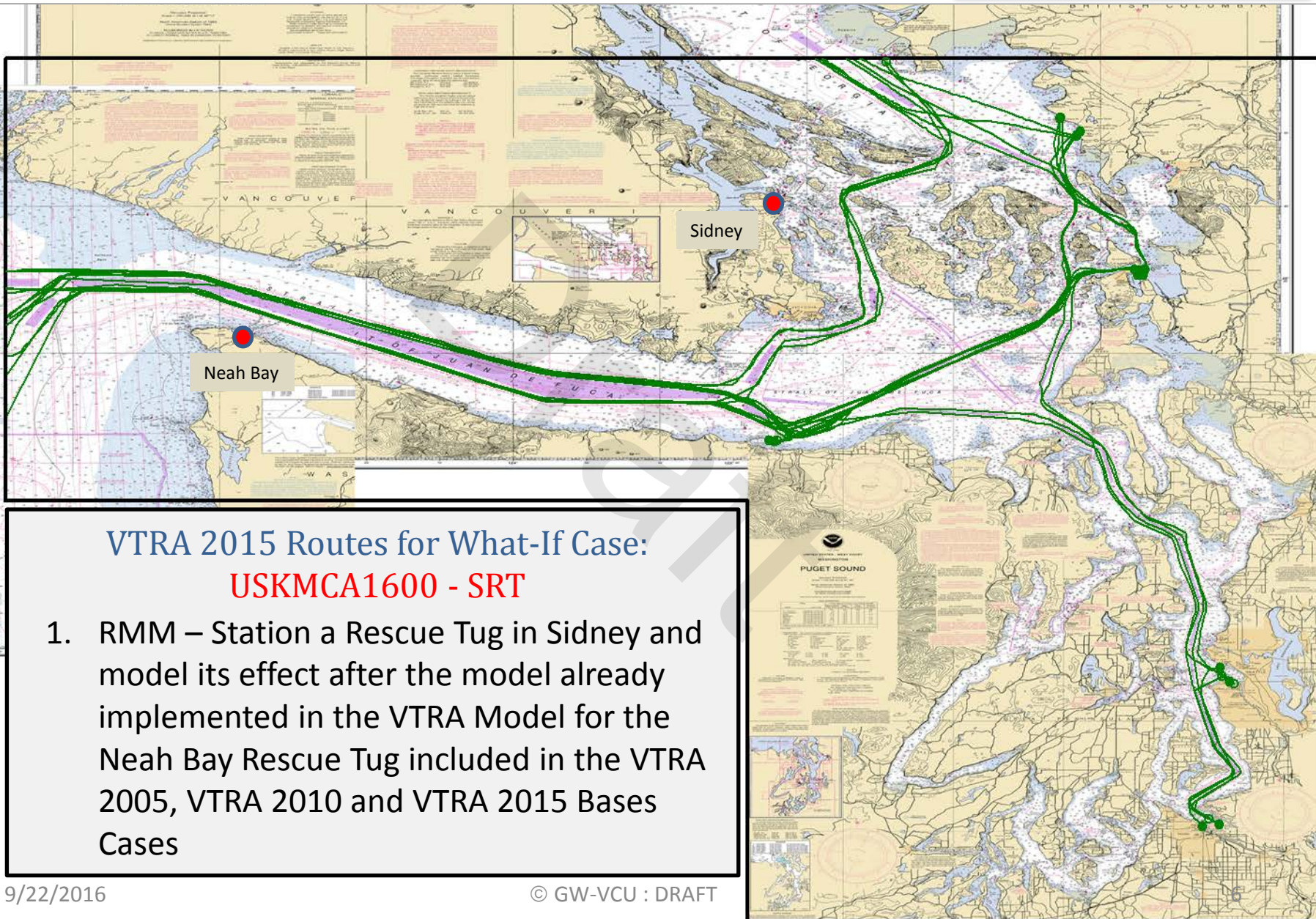
VTRA 2015 – What If FV Scheduled Random Arrival Pattern Model (See Example Graph below)



VTRA 2010 Equidistant Fixed Arrival Pattern (one every 4 days)

VTRA 2015 Random Arrival Pattern (3 Random Times in 12 days)

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



VTRA 2015 Routes for What-If Case: **USKMCA1600 - SRT**

1. RMM – Station a Rescue Tug in Sidney and model its effect after the model already implemented in the VTRA Model for the Neah Bay Rescue Tug included in the VTRA 2005, VTRA 2010 and VTRA 2015 Bases Cases

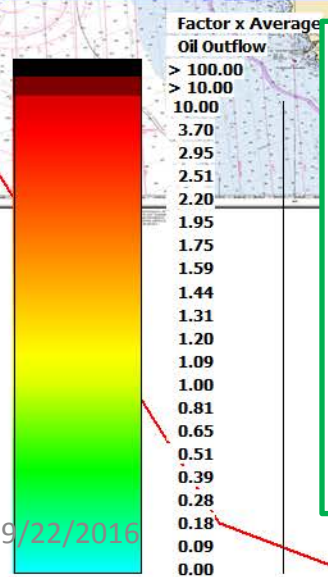
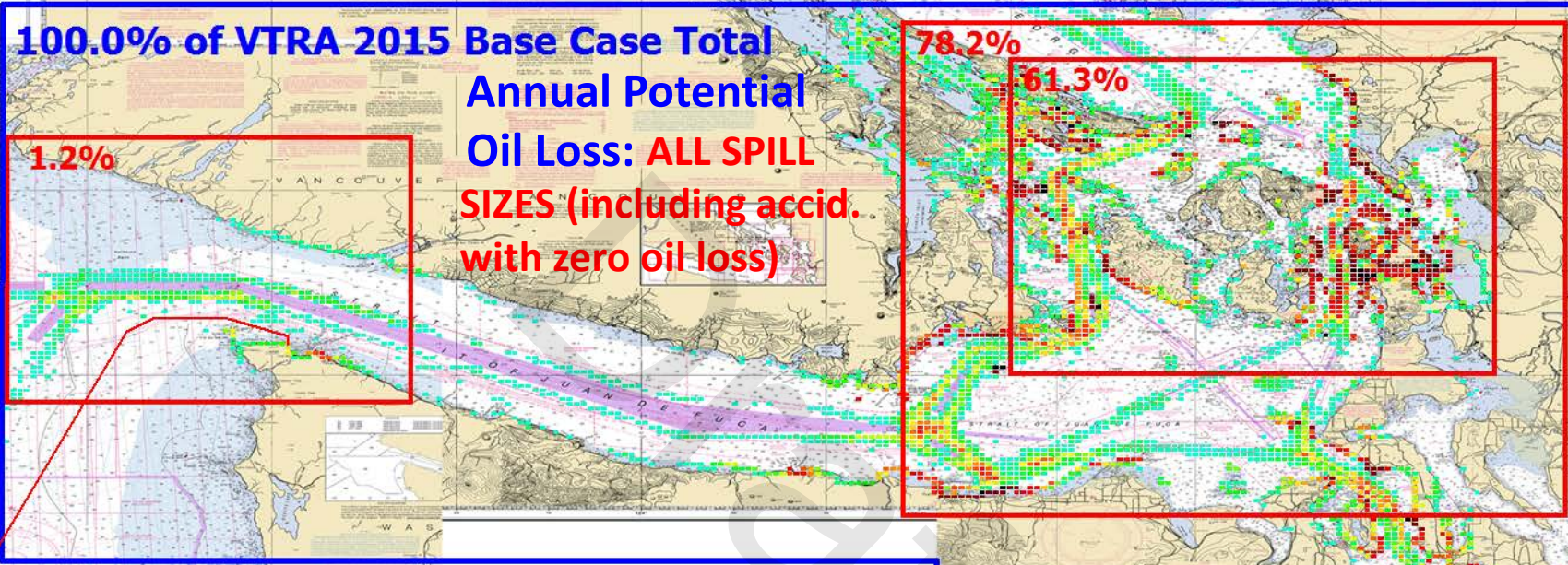
By Waterway Zone Risk Comparison

Oil Spill Size Category:

ALL SPILL SIZES

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

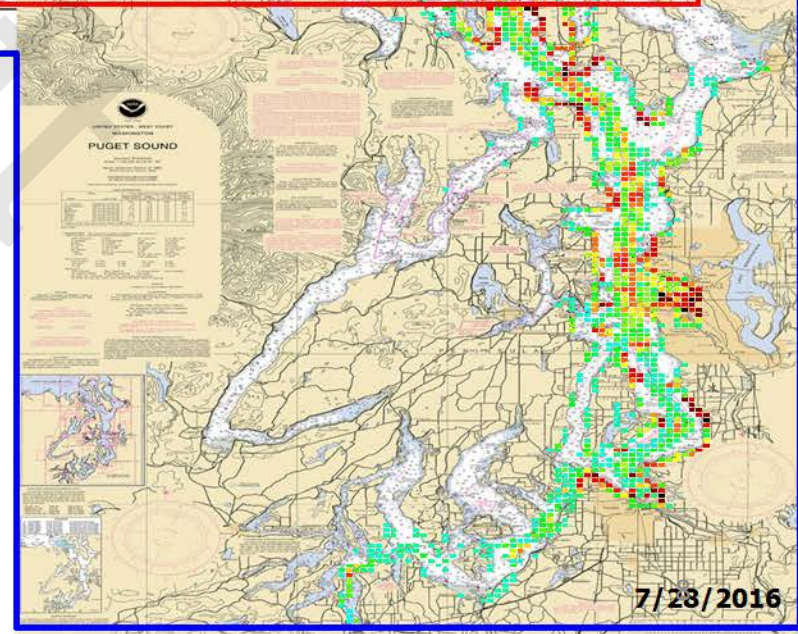
VTRA 2015 BASE CASE - ALL FV



VTRA '15 Case:
BASE CASE

GEOGRAPHIC PROFILE OF POTENTIAL ANNUAL OIL LOSS OF ACCIDENTS IN SPILL SIZE CATEGORY

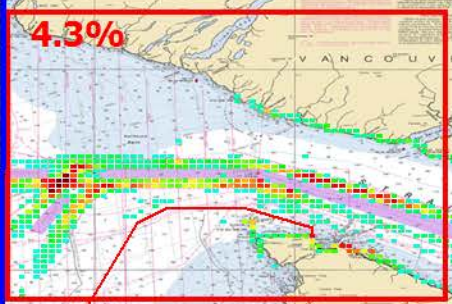
ALL SPILL SIZES



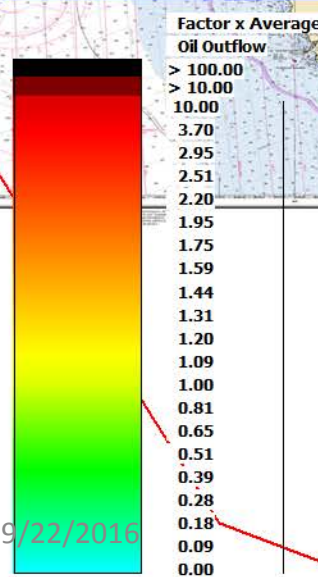
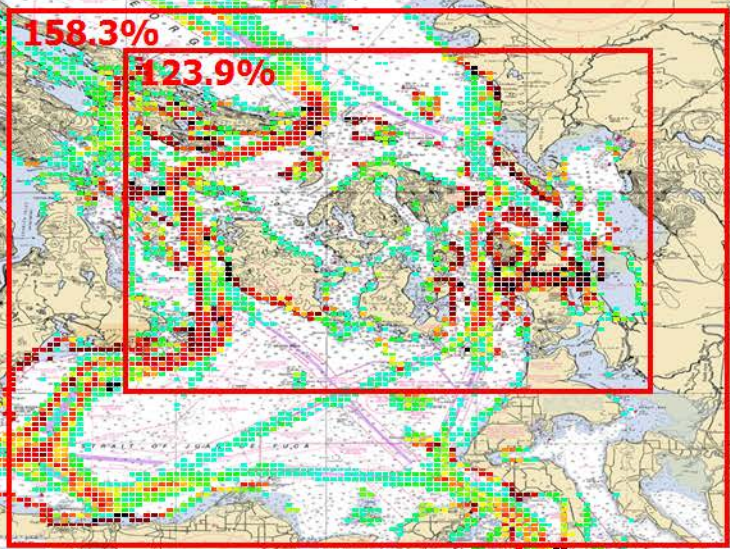
VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

VTRA 2015 Case: USKMCA1600 - ALL FV

184.1% of VTRA 2015 Base Case Total Annual Potential Oil Loss: ALL SPILL SIZES (including accid. with zero oil loss)

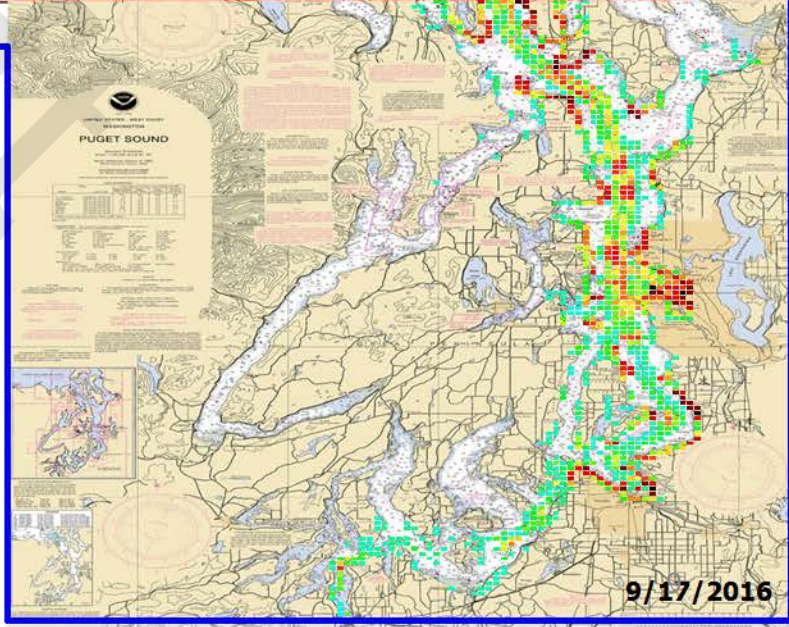


Oil Loss: ALL SPILL SIZES (including accid. with zero oil loss)



VTRA '15 Case: USKMCA1600

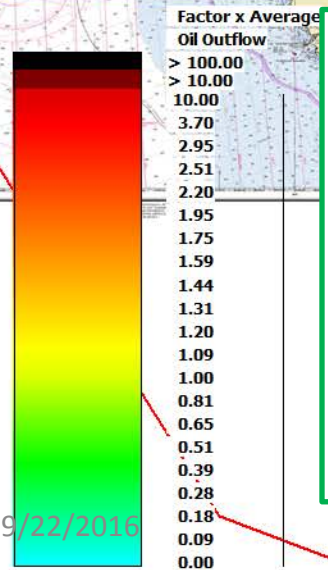
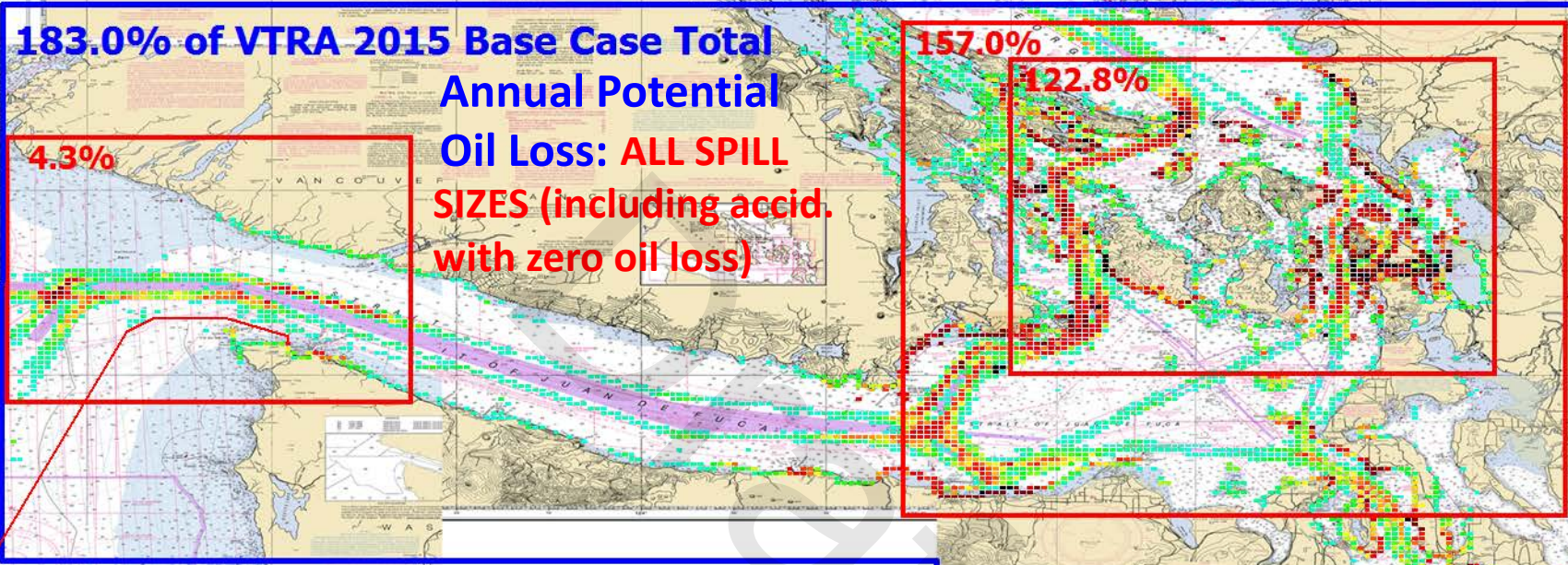
GEOGRAPHIC PROFILE OF POTENTIAL ANNUAL OIL LOSS OF ACCIDENTS IN SPILL SIZE CATEGORY ALL SPILL SIZES



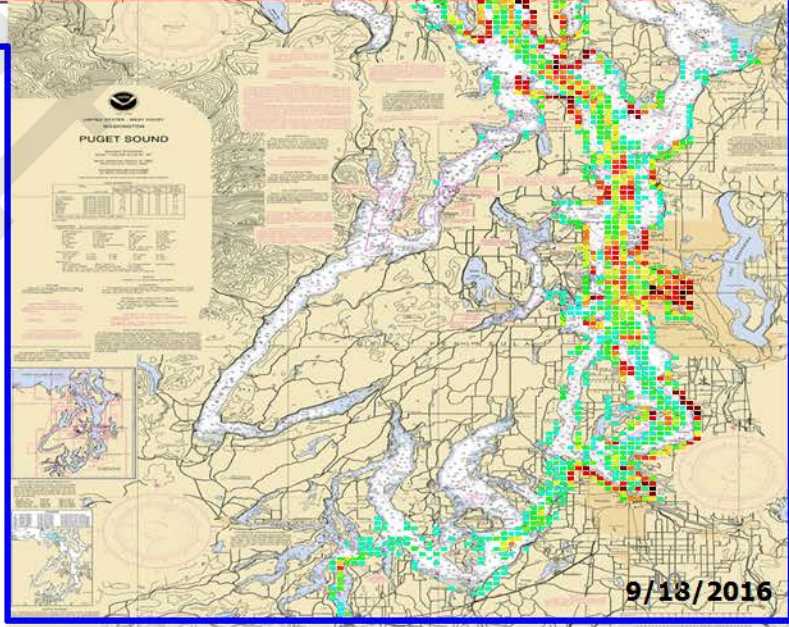
VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



VTRA 2015 Case: USKMCA1600-SRT - ALL FV



VTRA '15 Case:
USKMCA1600 - SRT
 GEOGRAPHIC PROFILE
 OF POTENTIAL ANNUAL
 OIL LOSS OF ACCIDENTS
 IN SPILL SIZE CATEGORY
ALL SPILL SIZES

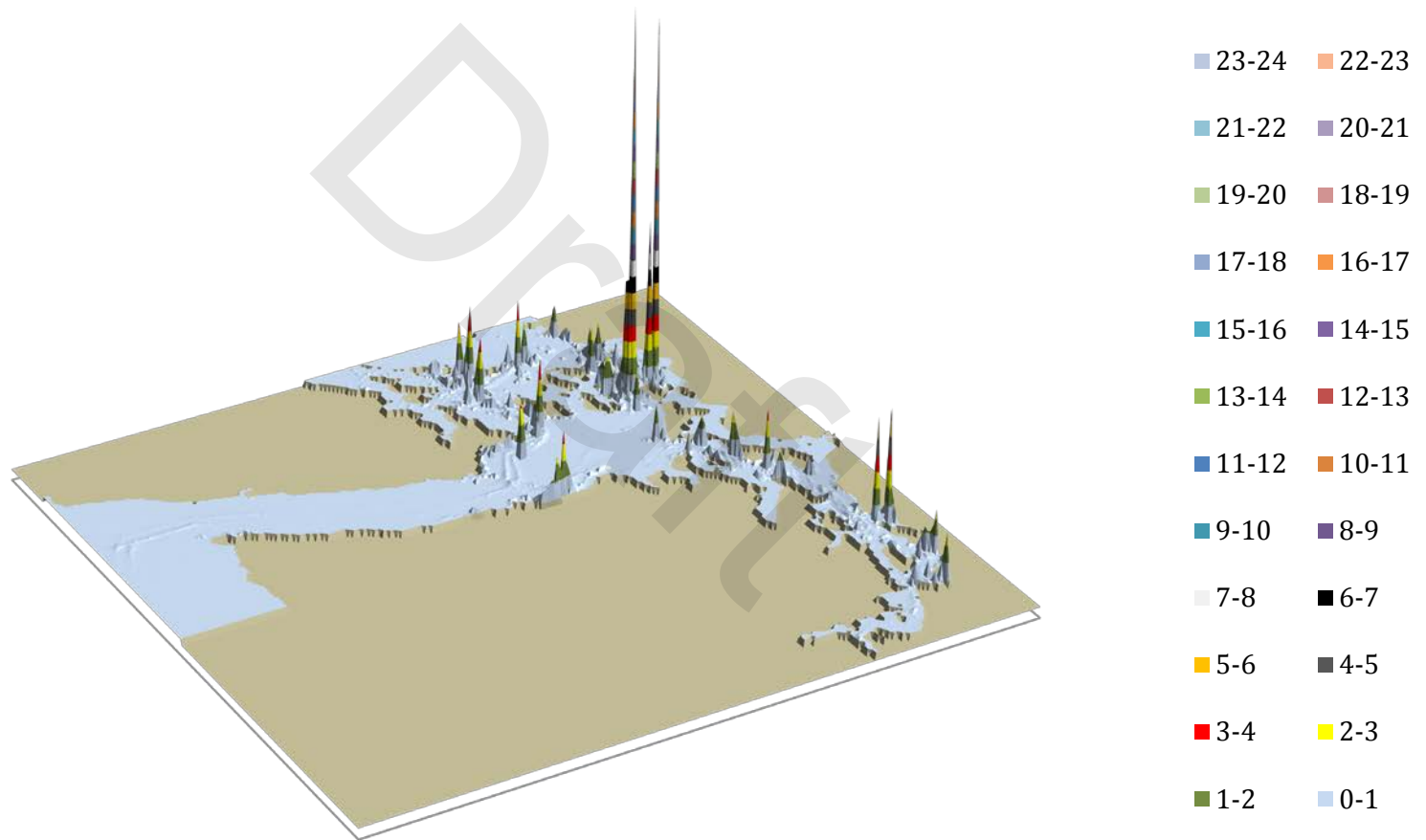


9/22/2016

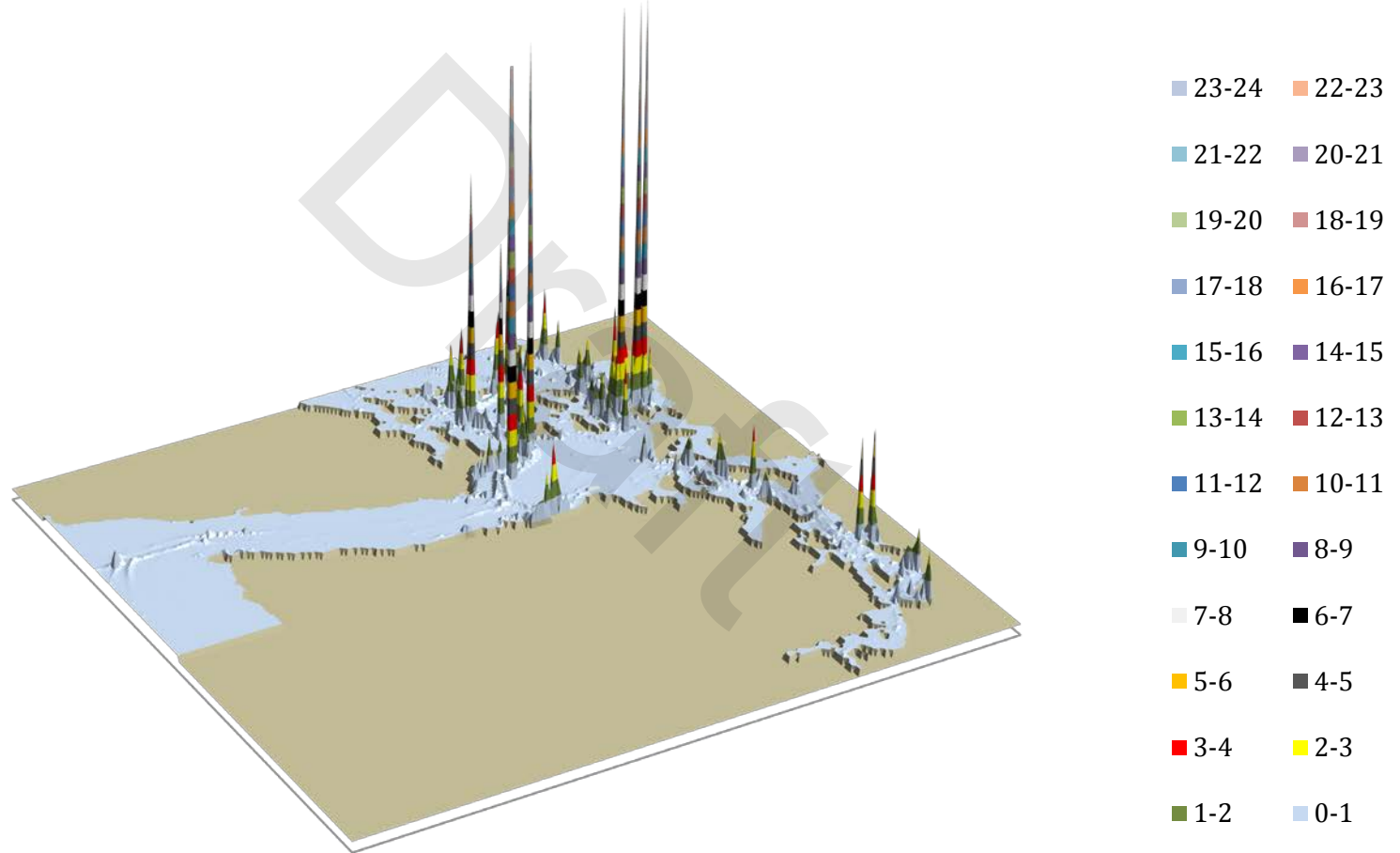
© GW-VCU : DRAFT

9/18/2016

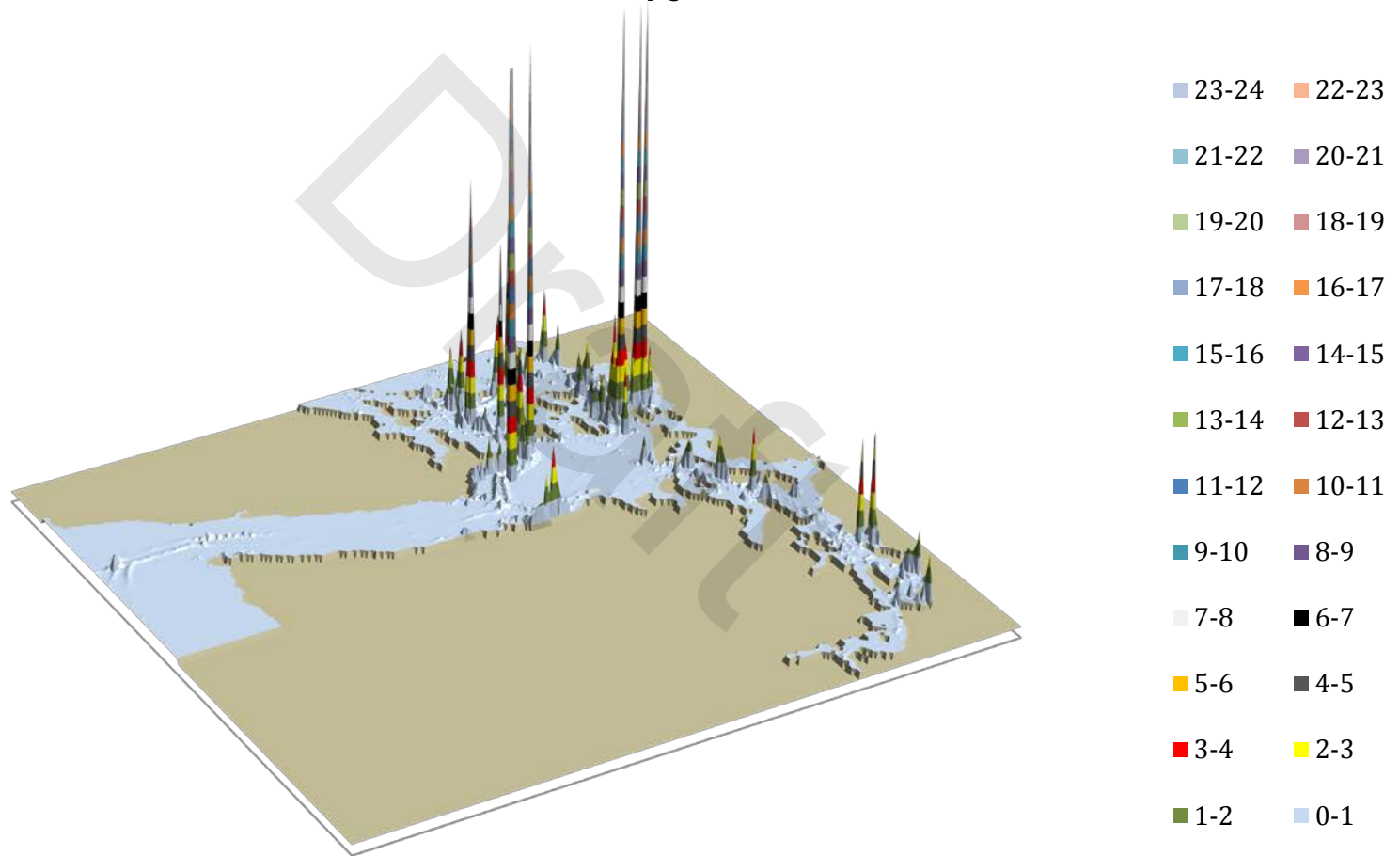
VTRA '15: Base Case 3D Risk Profile All FV - Pot.C+G+A.Oil Loss: 100% of Base Case POL



USKMCA1600 3D Risk Profile All FV - Pot.C+G+A.Oil Loss: 184% of Base Case POL



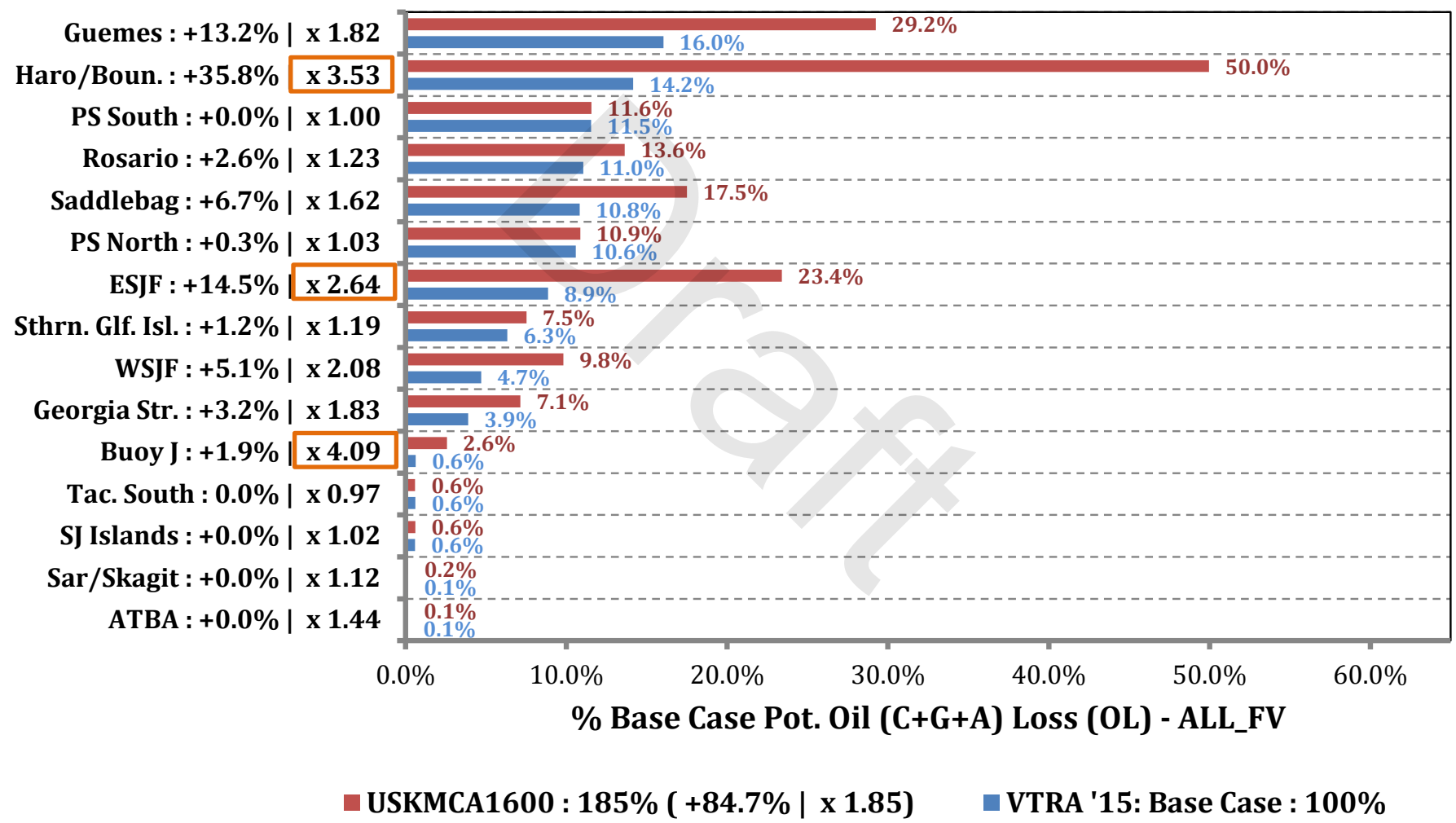
USKMCA1600 - SRT 3D Risk Profile All FV - Pot.C+G+A.Oil Loss: 183% of Base Case POL



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

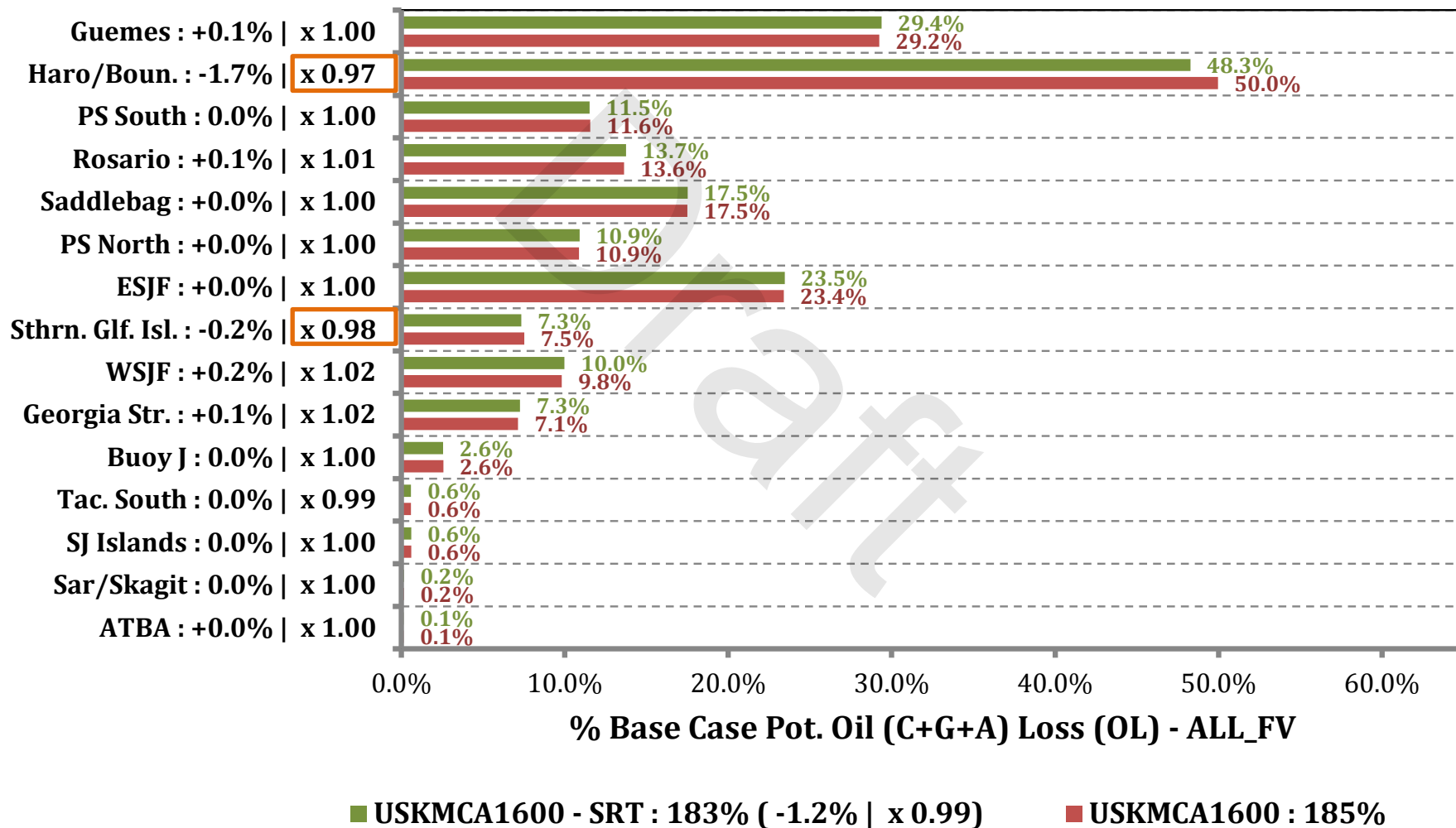


% Base Case Pot. Oil (C + G + A) Loss - ALL_FV



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

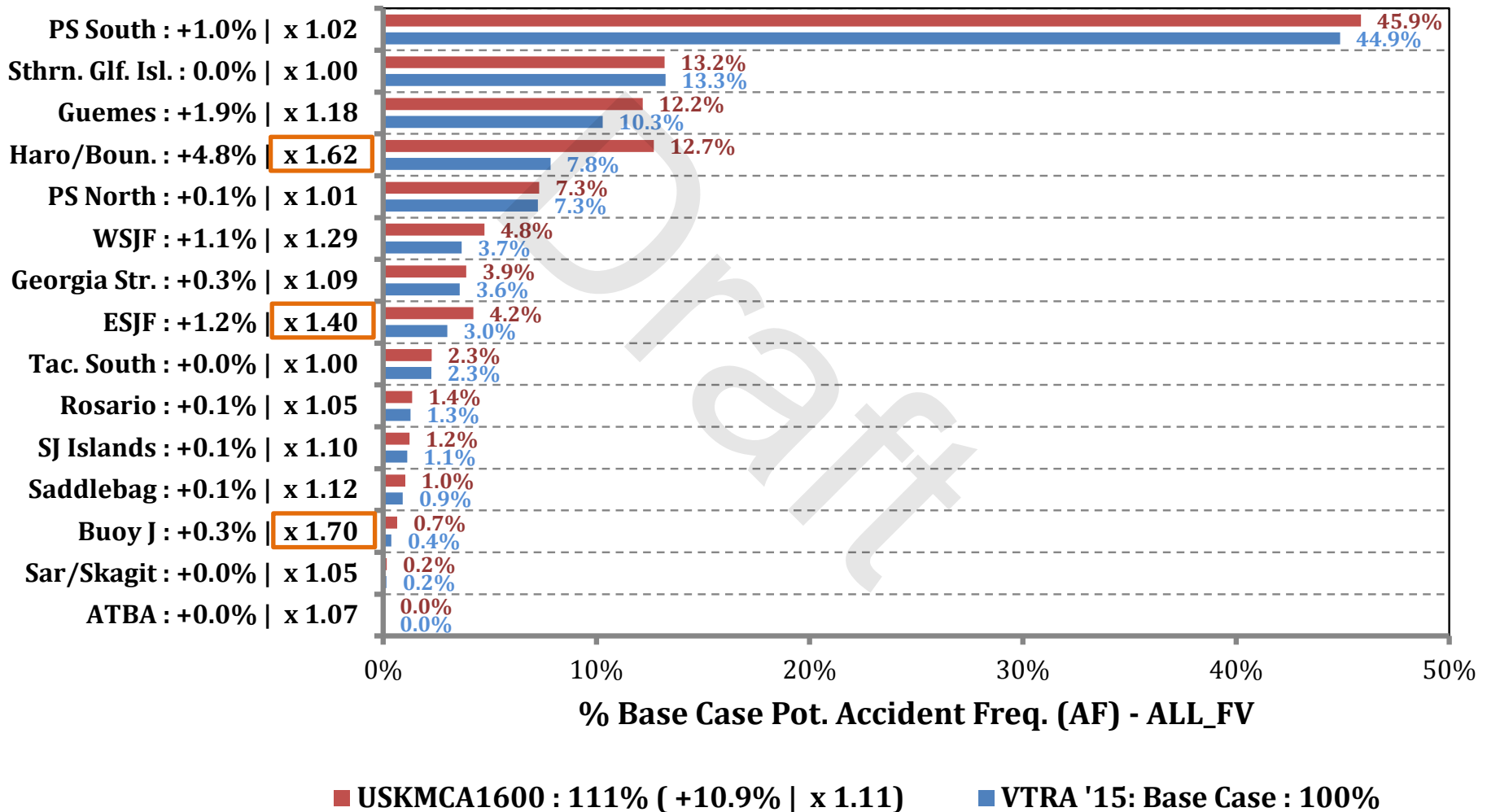
% Base Case Pot. Oil (C + G + A) Loss - ALL_FV



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



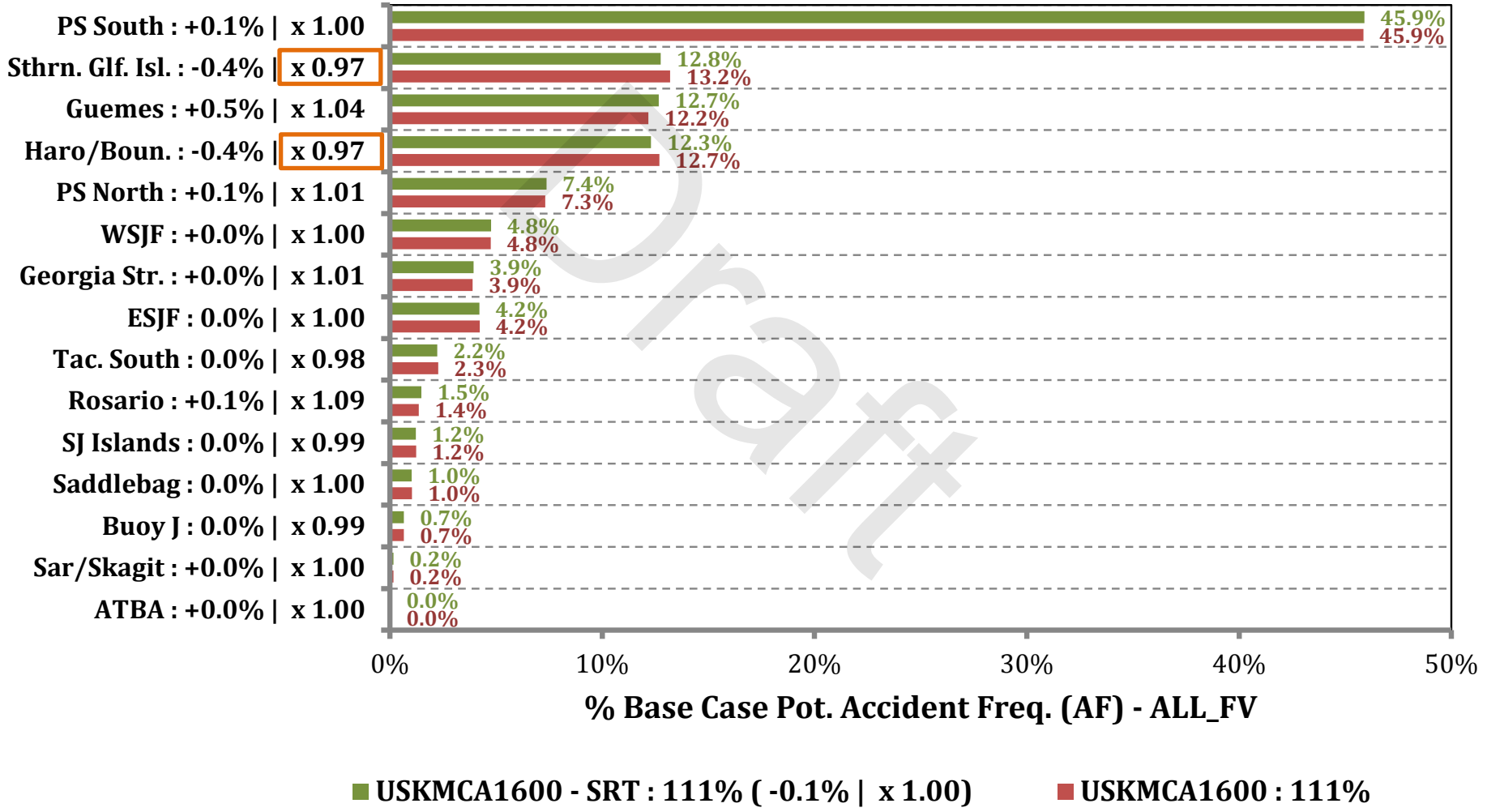
% Base Case Pot. Accident (C+G+A) Frequency - ALL_FV



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



% Base Case Pot. Accident (C+G+A) Frequency - ALL_FV

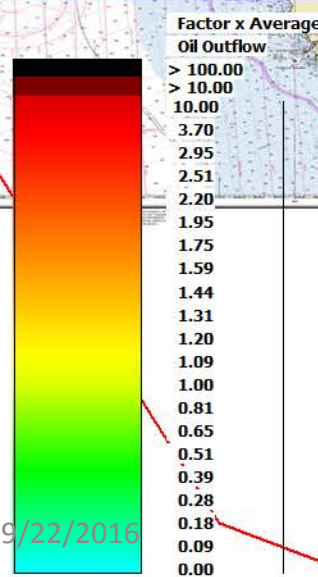
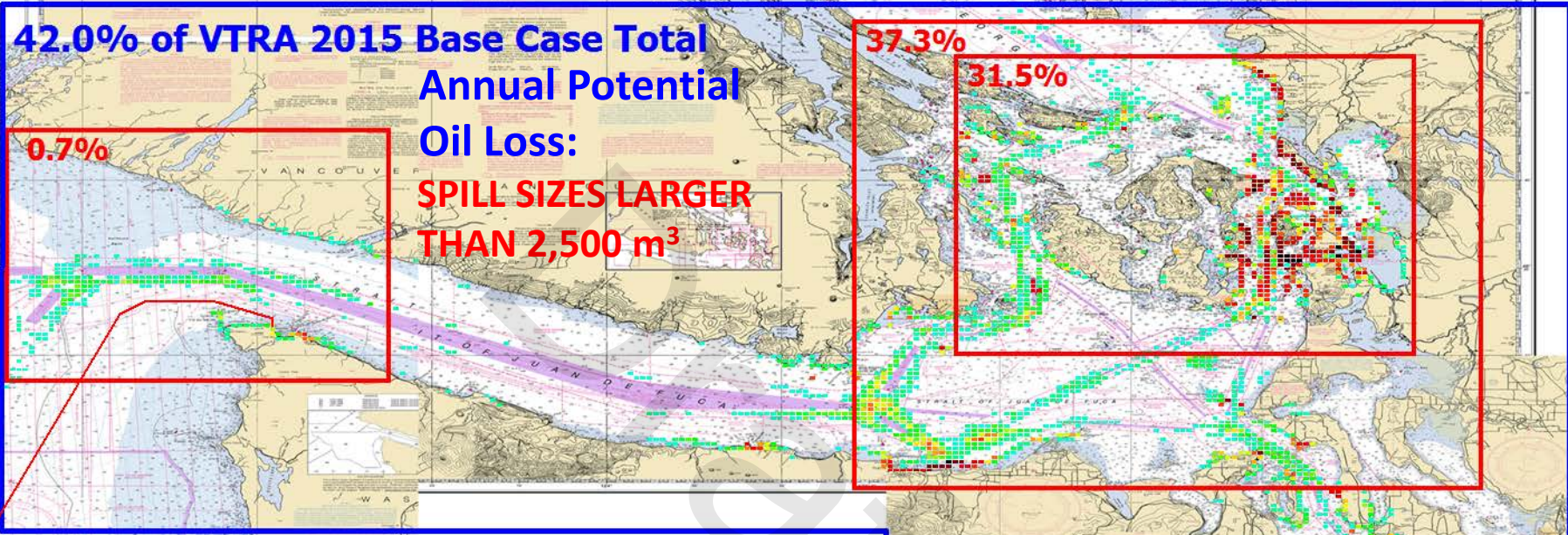


By Waterway Zone Risk Comparison

Oil Spill Size Category:
2500 m³ or more

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

VTRA 2015 BASE CASE - ALL FV



VTRA '15:
BASE CASE
GEOGRAPHIC PROFILE
OF POTENTIAL
ANNUAL OIL LOSS
OF ACCIDENTS
WITH SPILL SIZE
2,500 m³ or more

≈ 0.50% Probability
of Spill Occurrence
in 10 years

Average of ≈ 6,798 m³
Per Potential Spill
(≈ 5,846 Metric. Tons)

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

VTRA 2015 Case: USKMCA1600 - ALL FV

91.0% of VTRA 2015 Base Case Total Annual Potential Oil Loss:
SPILL SIZES LARGER THAN 2,500 m³

83.1%
67.7%

3.3%



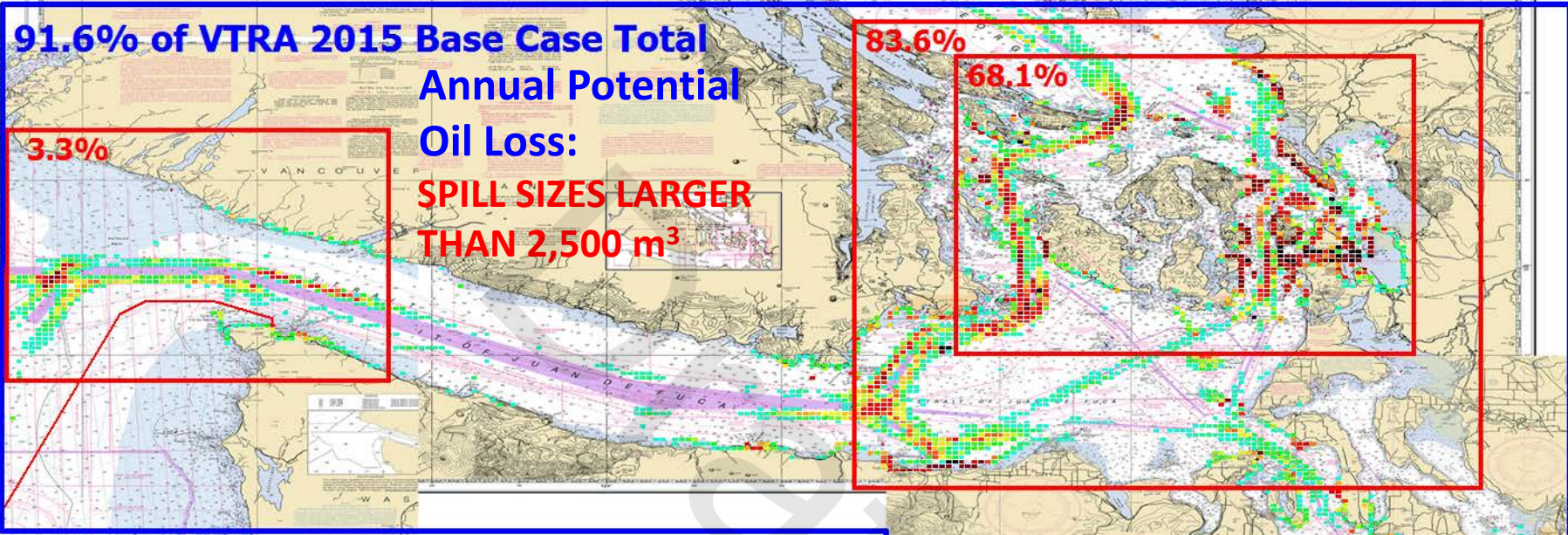
VTRA '15 Case: USKMCA1600
 GEOGRAPHIC PROFILE OF POTENTIAL ANNUAL OIL LOSS OF ACCIDENTS WITH SPILL SIZE **2,500 m³ or more**

≈ 1.35% Probability of Spill Occurrence in 10 years

Average of ≈ 5,412 m³ Per Potential Spill (≈ 4,654 Metric Tons)

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

VTRA 2015 Case: USKMCA1600-SRT - ALL FV



VTRA '15 Case:
USKMCA1600 - SRT
GEOGRAPHIC PROFILE
OF POTENTIAL
ANNUAL OIL LOSS
OF ACCIDENTS
WITH SPILL SIZE
2,500 m³ or more

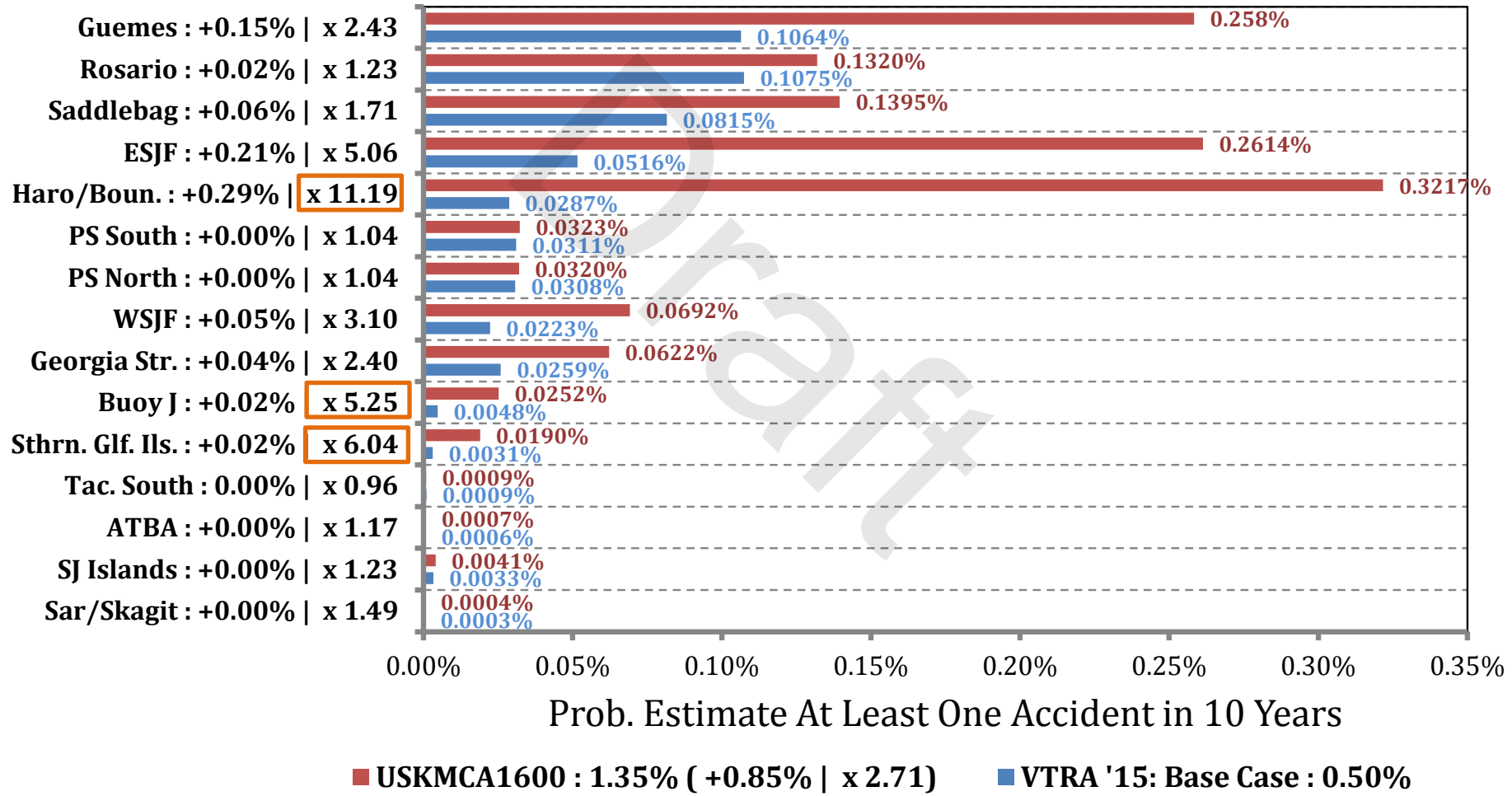
≈ 1.35% Probability
of Spill Occurrence
in 10 years

Average of ≈ 5,453 m³
Per Potential Spill
(≈ 4,690 Metric. Tons)

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



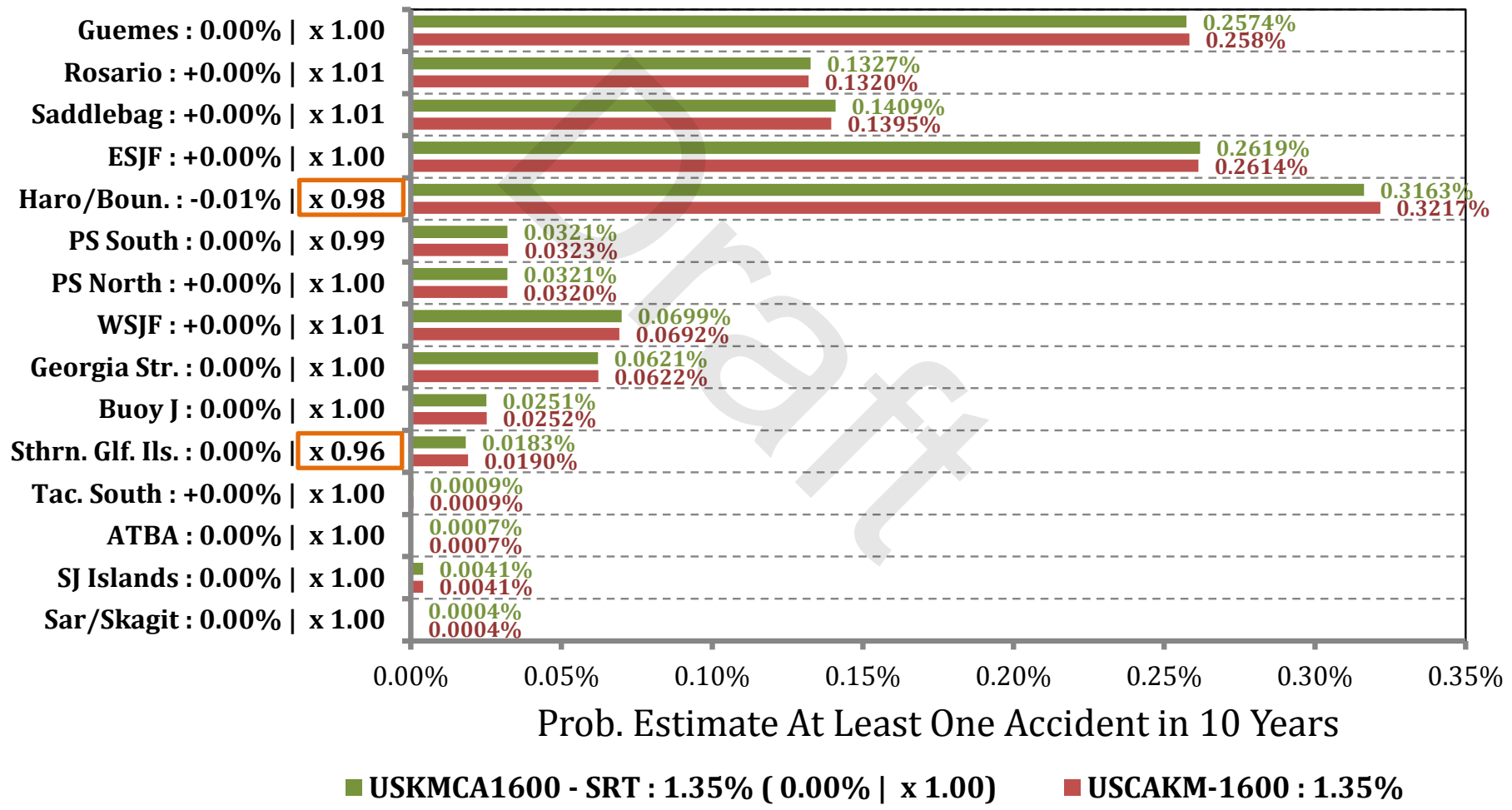
Prob. Estimate At Least One Accident in 10 Years - ALL_FV - Oil Spill Size Category: 2500 cubic meters or more



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



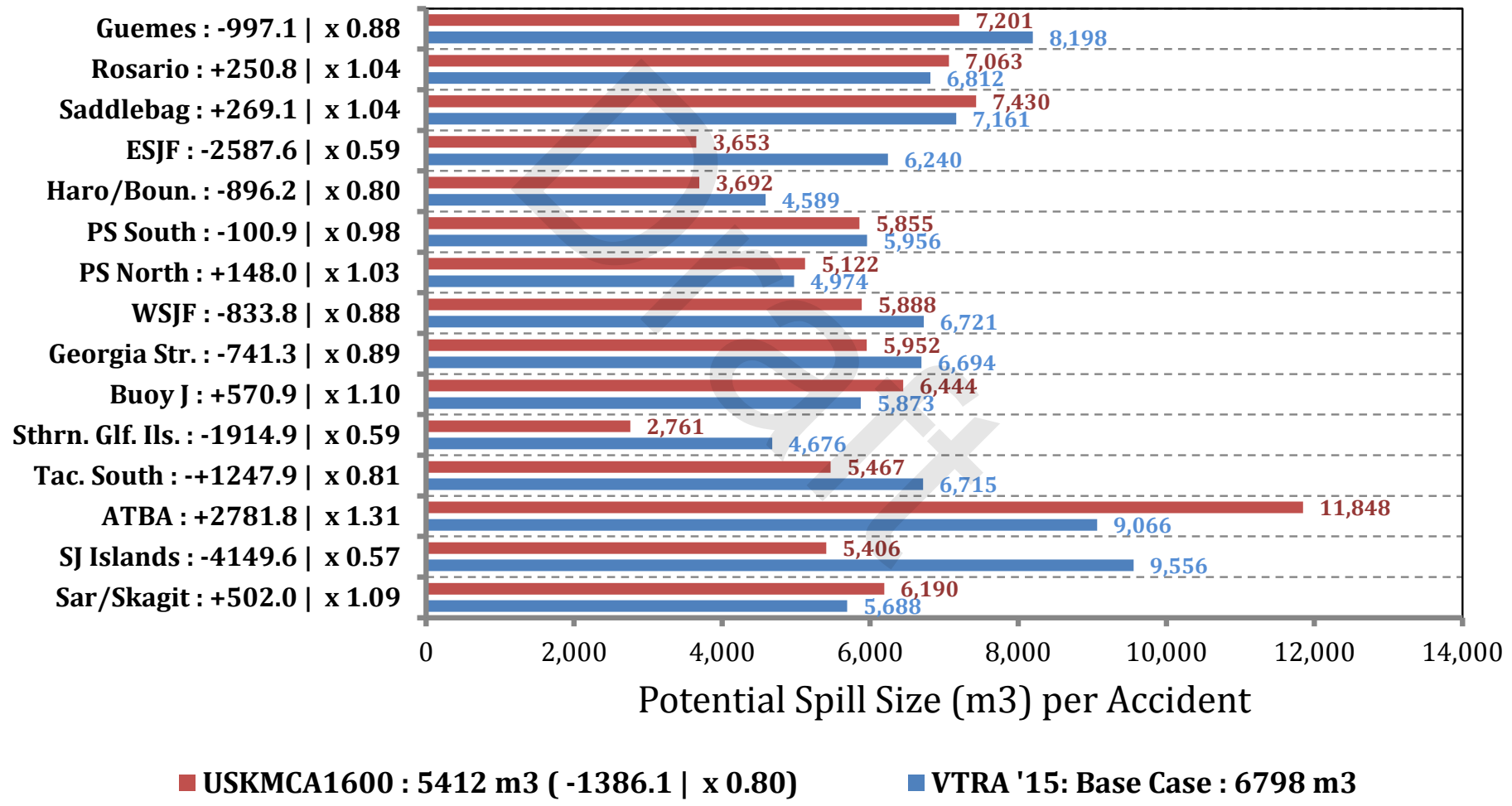
Prob. Estimate At Least One Accident in 10 Years - ALL_FV - Oil Spill Size Category: 2500 cubic meters or more



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

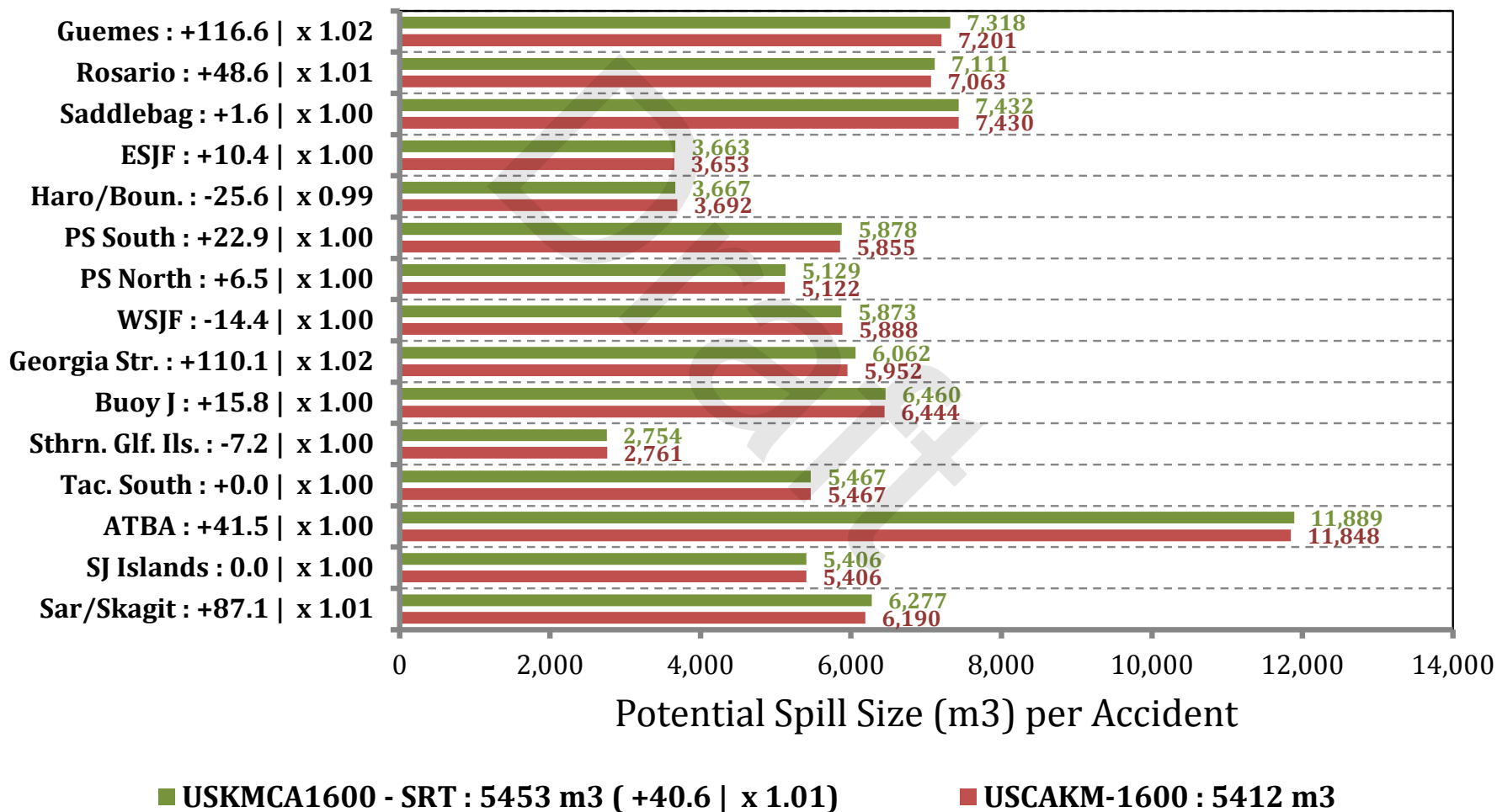


Potential Spill Size (m3) per Accident - ALL_FV - Oil Spill Size Category: 2500 cubic meters or more



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

Potential Spill Size (m³) per Accident - ALL_FV - Oil Spill Size Category: 2500 cubic meters or more



By Waterway Zone Risk Comparison

Oil Spill Size Category:

1000 m³ - 2500 m³

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

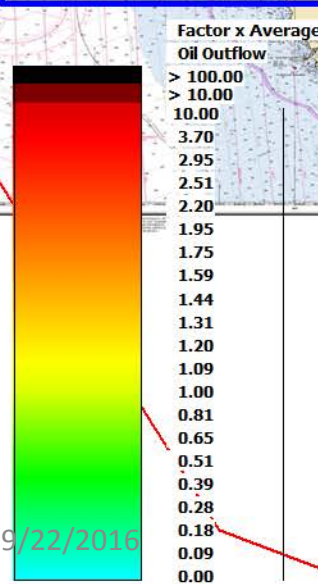


VTRA 2015 BASE CASE - ALL FV

12.3% of VTRA 2015 Base Case Total Annual Potential Oil Loss:
SPILL SIZES BETWEEN 1,000 m³ - 2,500 m³

10.7%
9.1%

0.1%



VTRA '15:
BASE CASE
GEOGRAPHIC PROFILE OF POTENTIAL ANNUAL OIL LOSS OF ACCIDENTS WITH SPILL SIZE **BETWEEN 1,000 m³ - 2,500 m³**

≈ 0.61% Probability of Spill Occurrence in 10 years

Average of ≈ 1,619 m³ Per Potential Spill (≈ 1,392 Metric Tons)

9/22/2016

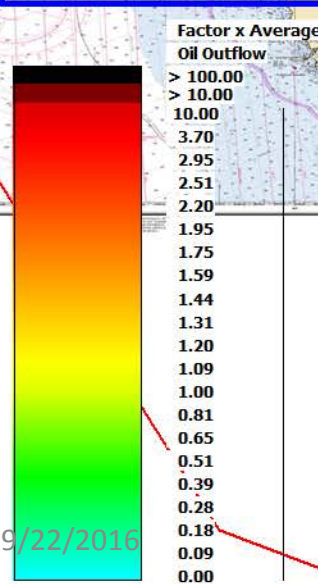
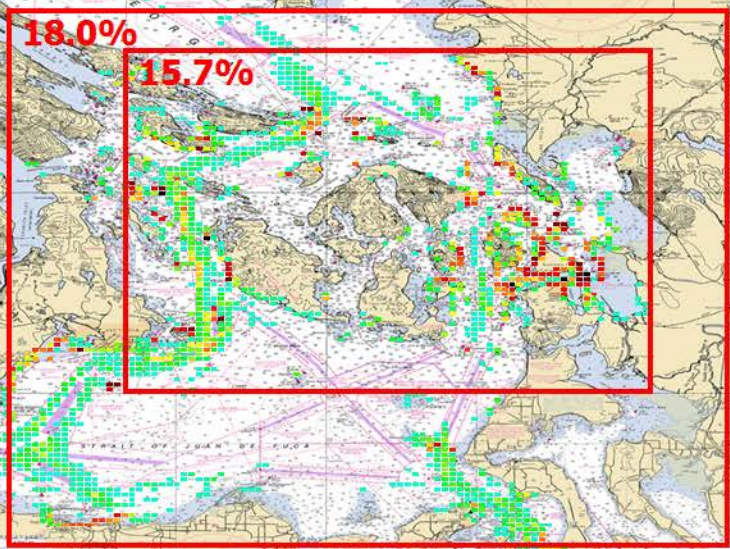
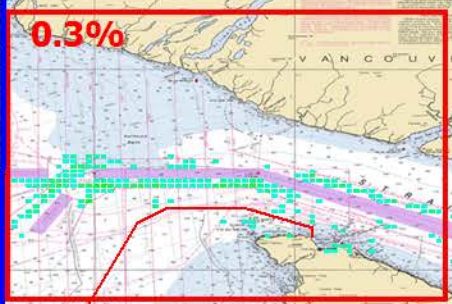
7/28/2016

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



VTRA 2015 Case: USKMCA1600 - ALL FV

19.9% of VTRA 2015 Base Case Total Annual Potential Oil Loss:
SPILL SIZES BETWEEN 1,000 m³ - 2,500 m³



VTRA '15 Case: USKMCA - 1600
GEOGRAPHIC PROFILE OF POTENTIAL ANNUAL OIL LOSS OF ACCIDENTS WITH SPILL SIZE BETWEEN 1,000 m³ - 2,500 m³

≈ 0.95% Probability of Spill Occurrence in 10 years

Average of ≈ 1,694 m³ Per Potential Spill (≈ 1,457 Metric Tons)

9/22/2016

9/17/2016

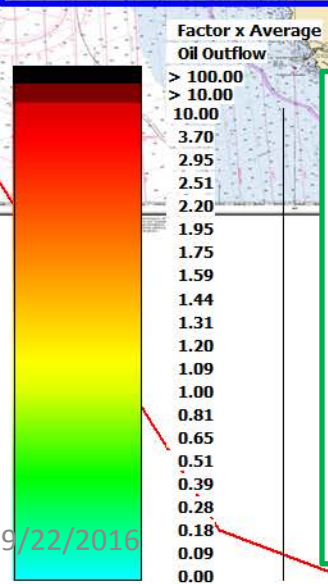
VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

VTRA 2015 Case: USKMCA1600-SRT - ALL FV

19.5% of VTRA 2015 Base Case Total Annual Potential Oil Loss:
SPILL SIZES BETWEEN 1,000 m³ - 2,500 m³

17.6%
15.2%

0.3%



VTRA '15 Case: USKMCA1600 - SRT
 GEOGRAPHIC PROFILE OF POTENTIAL ANNUAL OIL LOSS OF ACCIDENTS WITH SPILL SIZE **BETWEEN 1,000 m³ - 2,500 m³**

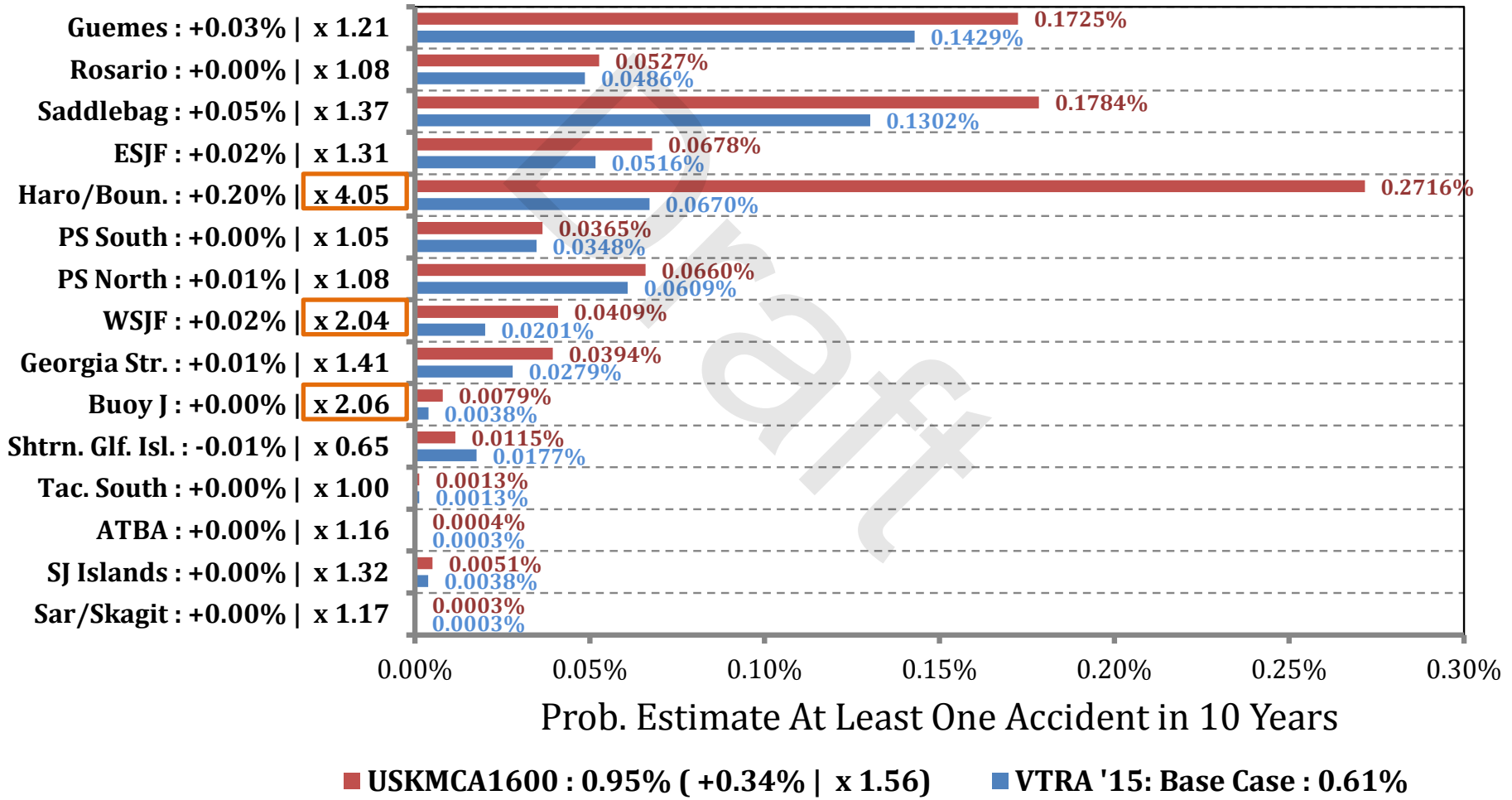
≈ 0.93% Probability of Spill Occurrence in 10 years

Average of ≈ 1,695 m³ Per Potential Spill (≈ 1,458 Metric Tons)

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



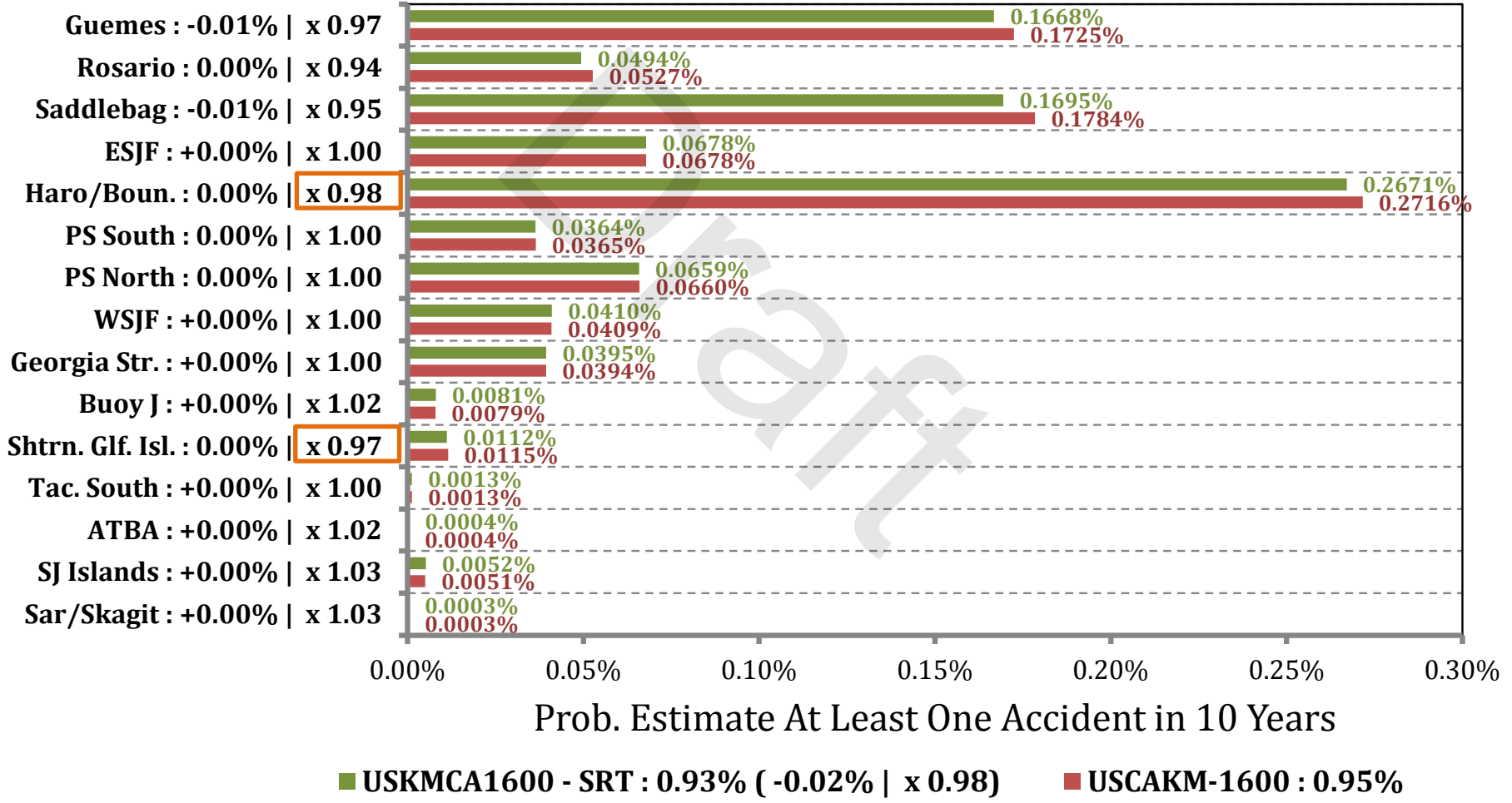
Prob. Estimate At Least One Accident in 10 Years - ALL_FV - Oil Spill Size Category: 1000 - 2500 m3



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



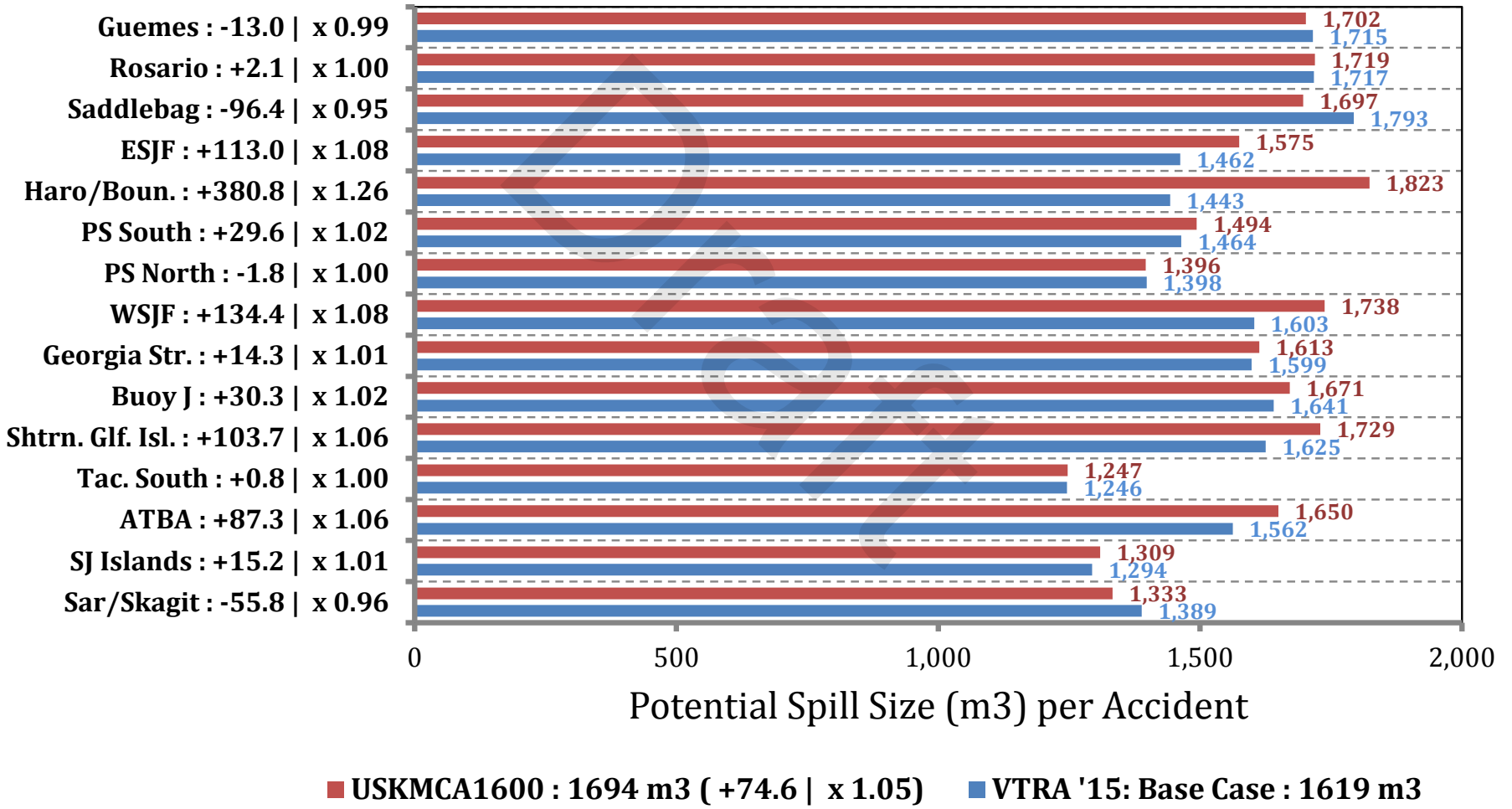
Prob. Estimate At Least One Accident in 10 Years - ALL_FV - Oil Spill Size Category: 1000 - 2500 m3



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



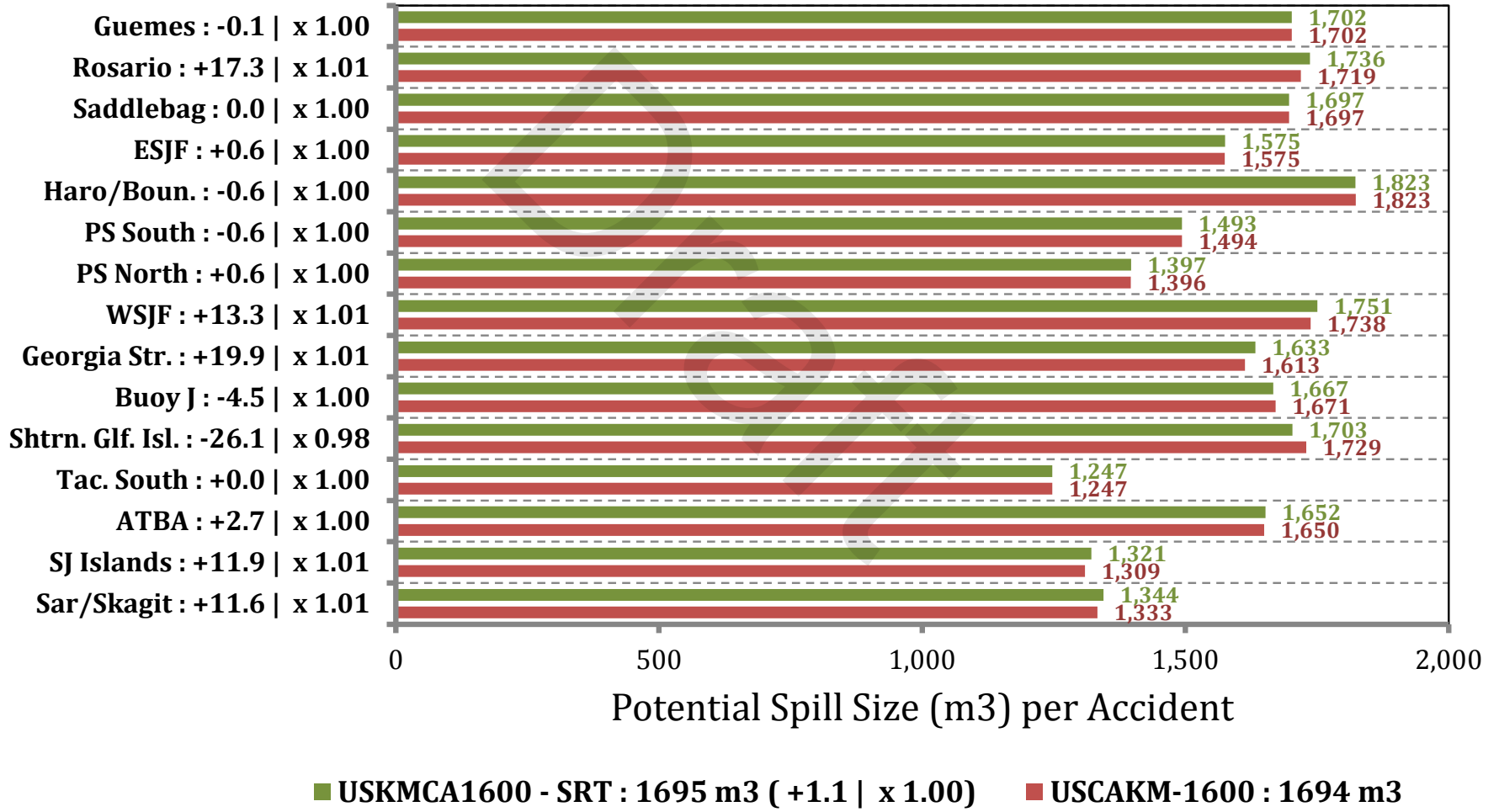
Potential Spill Size (m³) per Accident - ALL_FV - Oil Spill Size Category: 1000 - 2500 m³



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



Potential Spill Size (m3) per Accident - ALL_FV - Oil Spill Size
Category: 1000 - 2500 m3



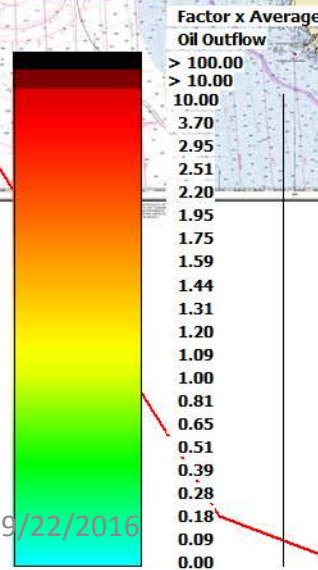
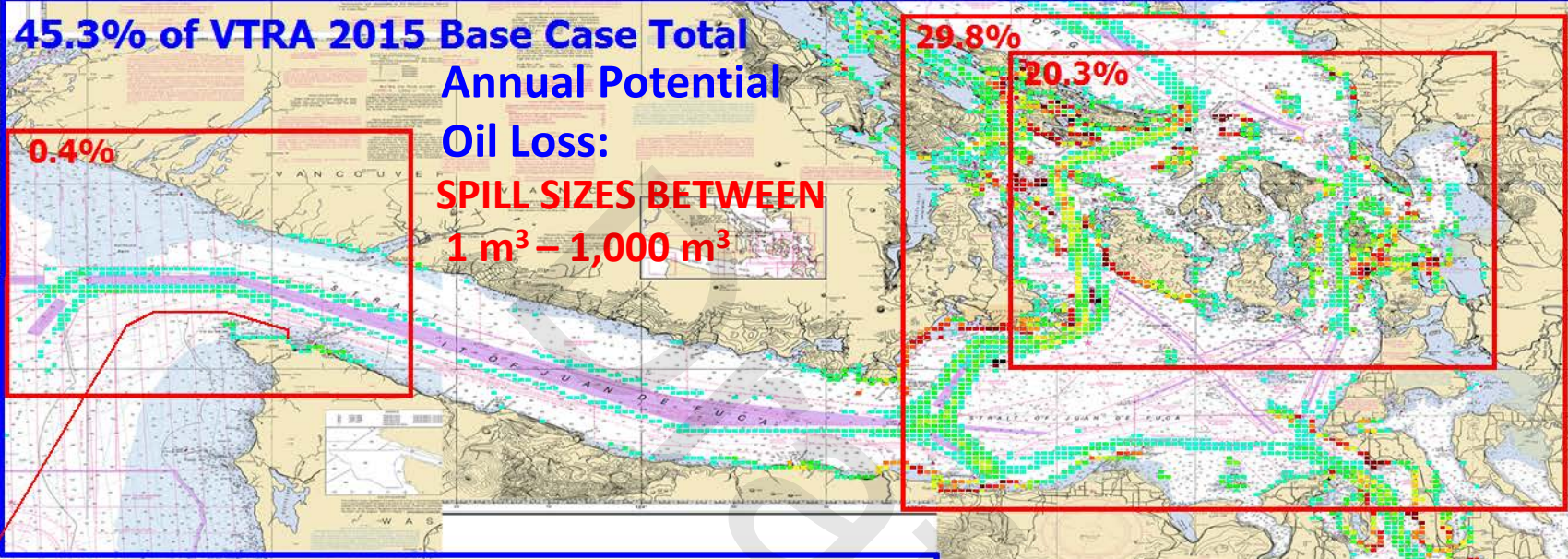
By Waterway Zone Risk Comparison

Oil Spill Size Category:

$1 \text{ m}^3 - 1000 \text{ m}^3$

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

VTRA 2015 BASE CASE - ALL FV



VTRA '15:
BASE CASE
 GEOGRAPHIC PROFILE
 OF ANNUAL
 POTENTIAL OIL LOSS
 OF ACCIDENTS
 WITH SPILL SIZE
BETWEEN 1 m³ - 1000 m³

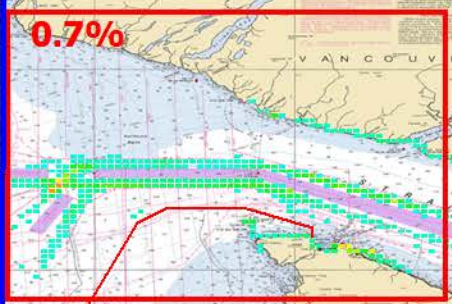
≈ 54.2% Probability
 of Spill Occurrence
 in 10 years

Average of ≈ 47 m³
 Per Potential Spill
 (≈ 295 Barrels)

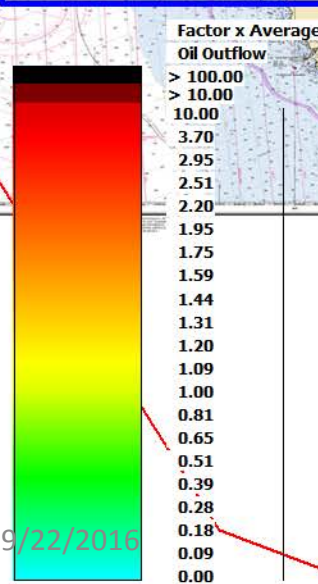
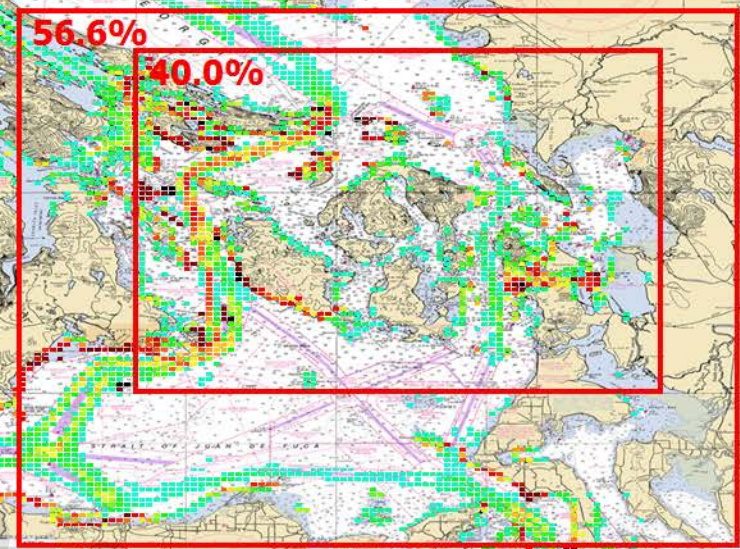
VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

VTRA 2015 Case: USKMCA1600 - ALL FV

72.7% of VTRA 2015 Base Case Total Annual Potential Oil Loss:



Oil Loss:
SPILL SIZES BETWEEN
1 m³ - 1,000 m³



VTRA '15 Case:
USKMCA - 1600
GEOGRAPHIC PROFILE
OF ANNUAL
POTENTIAL OIL LOSS
OF ACCIDENTS
WITH SPILL SIZE
BETWEEN 1 m³ - 1000 m³

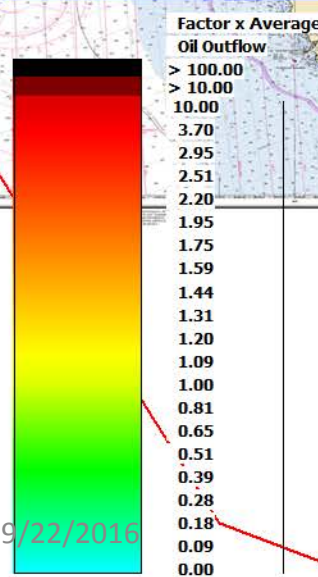
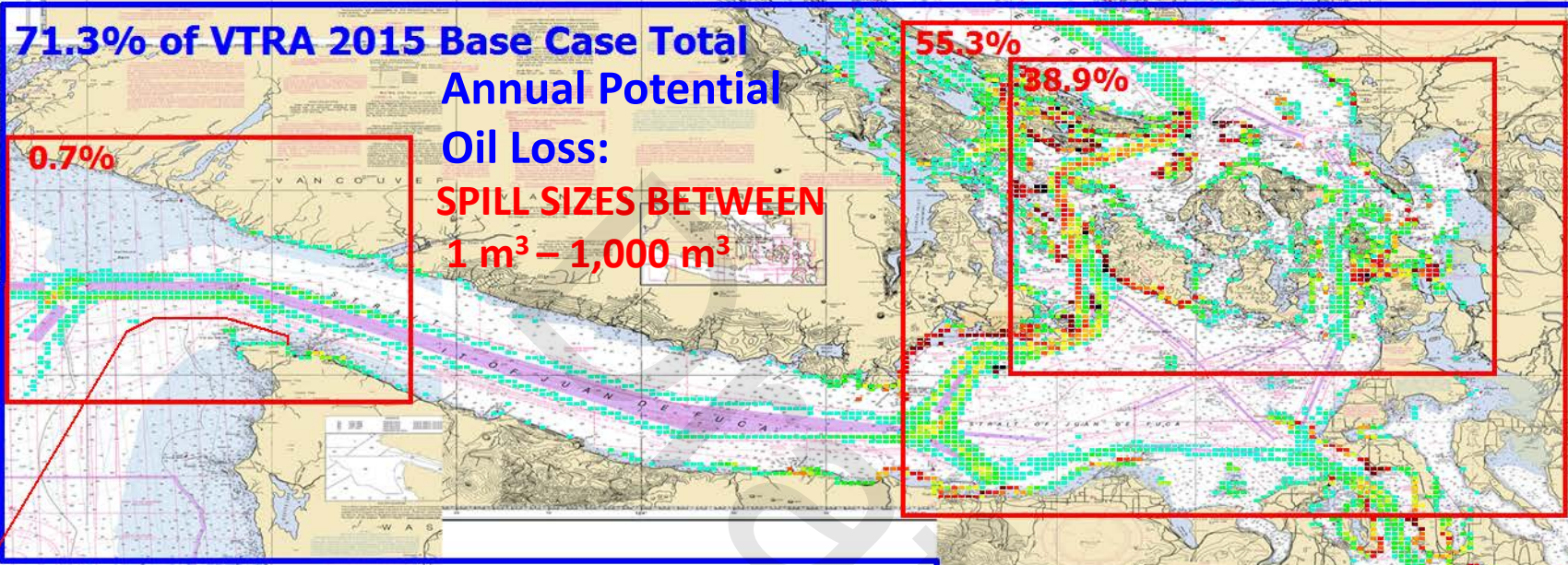
≈ 57.2% Probability
of Spill Occurrence
in 10 years

Average of ≈ 69 m³
Per Potential Spill
(≈ 436 Barrels)

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



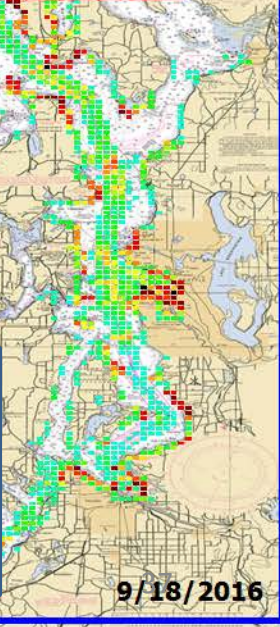
VTRA 2015 Case: USKMCA1600-SRT - ALL FV



VTRA '15 Case:
USKMCA1600 - SRT
GEOGRAPHIC PROFILE
OF ANNUAL
POTENTIAL OIL LOSS
OF ACCIDENTS
WITH SPILL SIZE
BETWEEN 1 m³ - 1000 m³

≈ 55.6% Probability
of Spill Occurrence
in 10 years

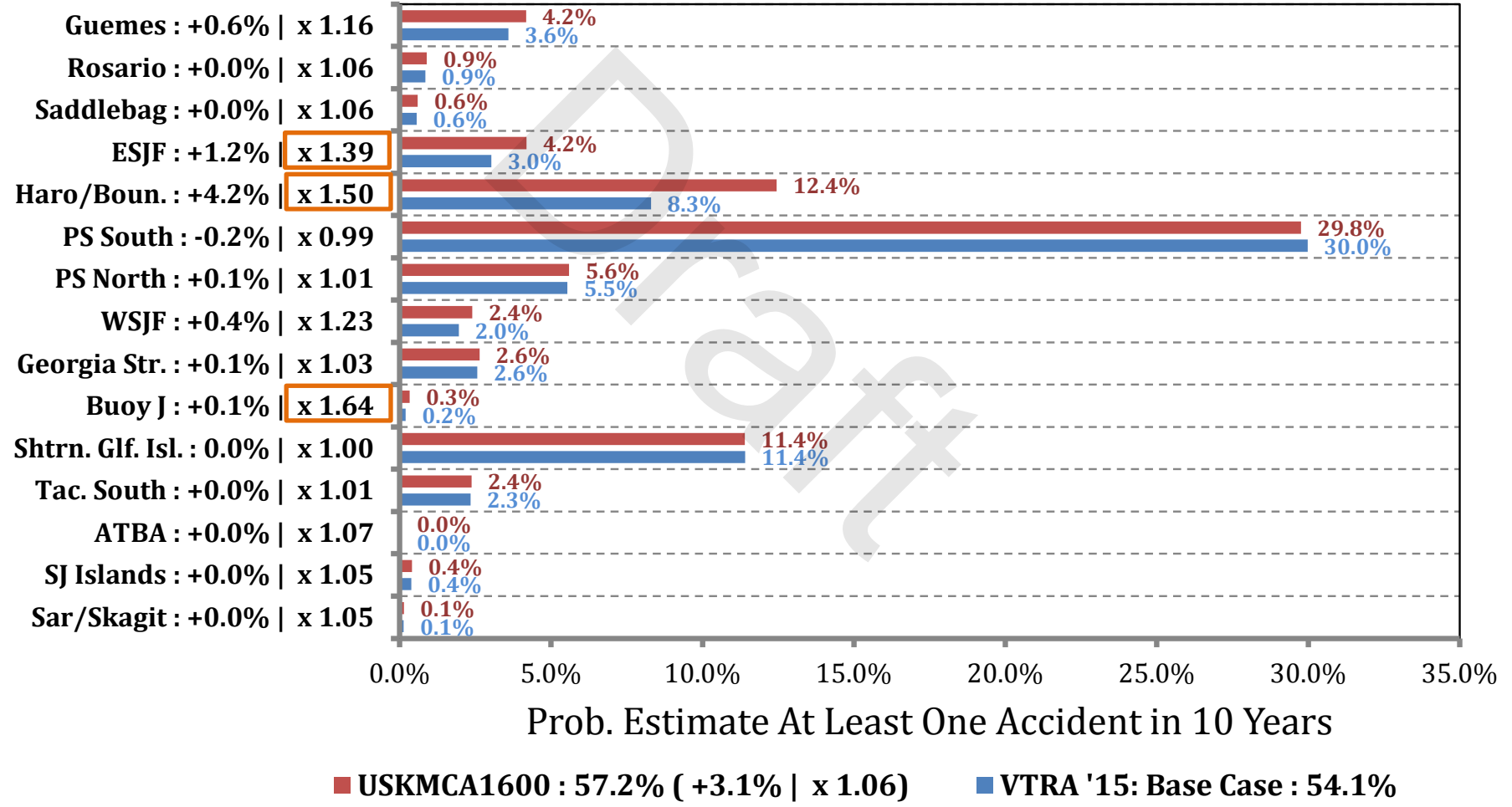
Average of ≈ 68 m³
Per Potential Spill
(≈ 428 Barrels)



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

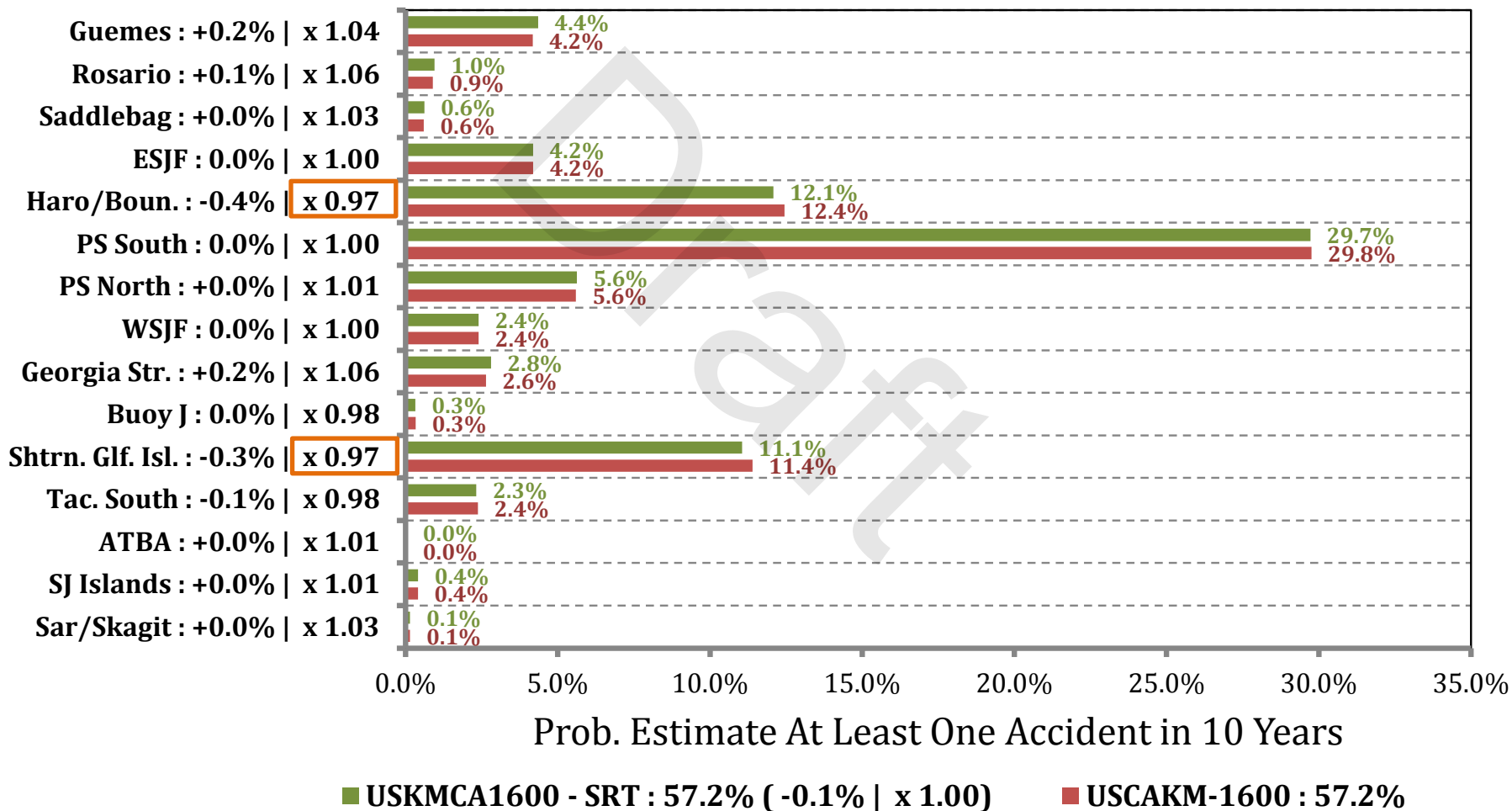


Prob. Estimate At Least One Accident in 10 Years - ALL_FV - Oil Spill Size Category: 1 - 1000 m3



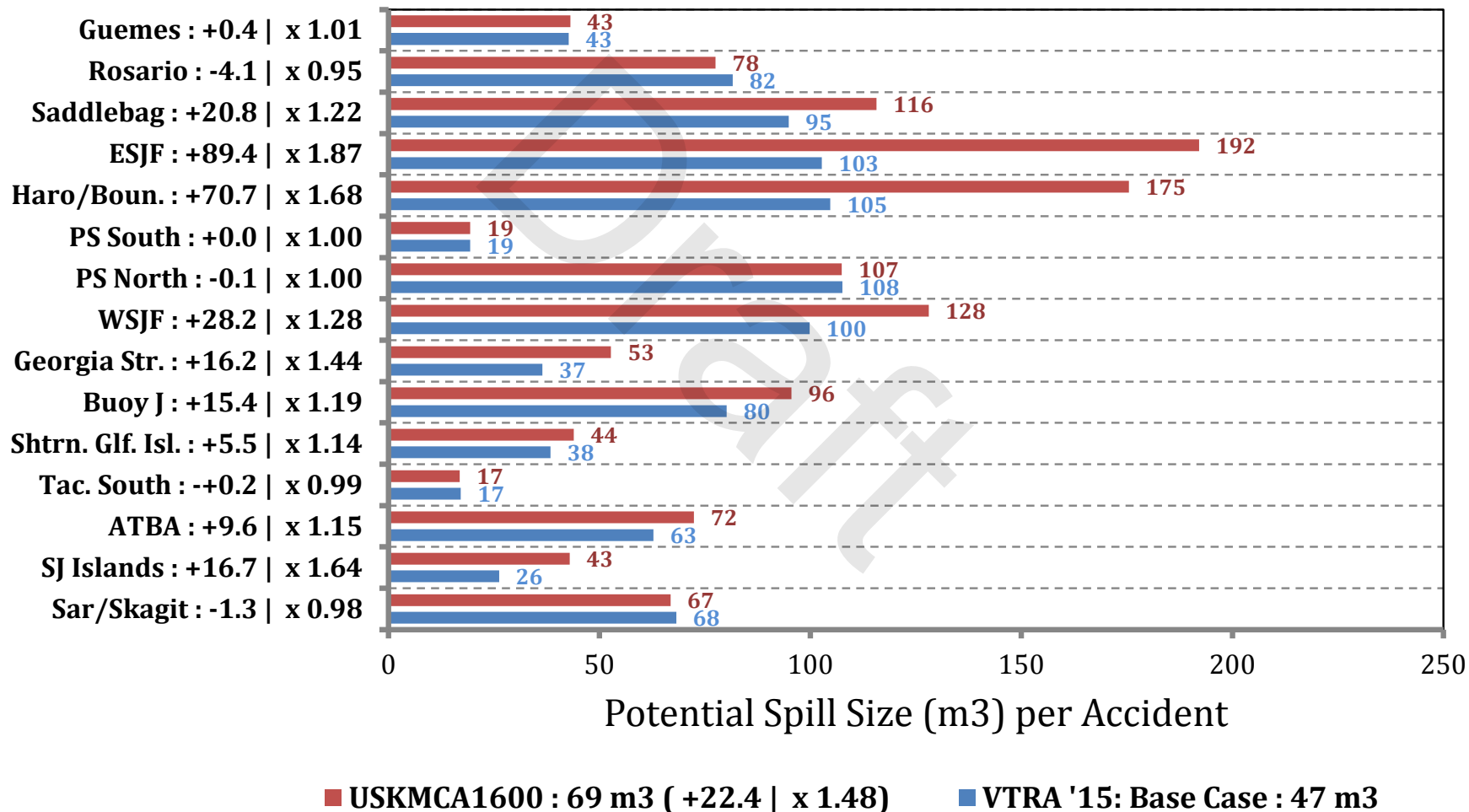
VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

Prob. Estimate At Least One Accident in 10 Years - ALL_FV - Oil Spill Size Category: 1 - 1000 m3



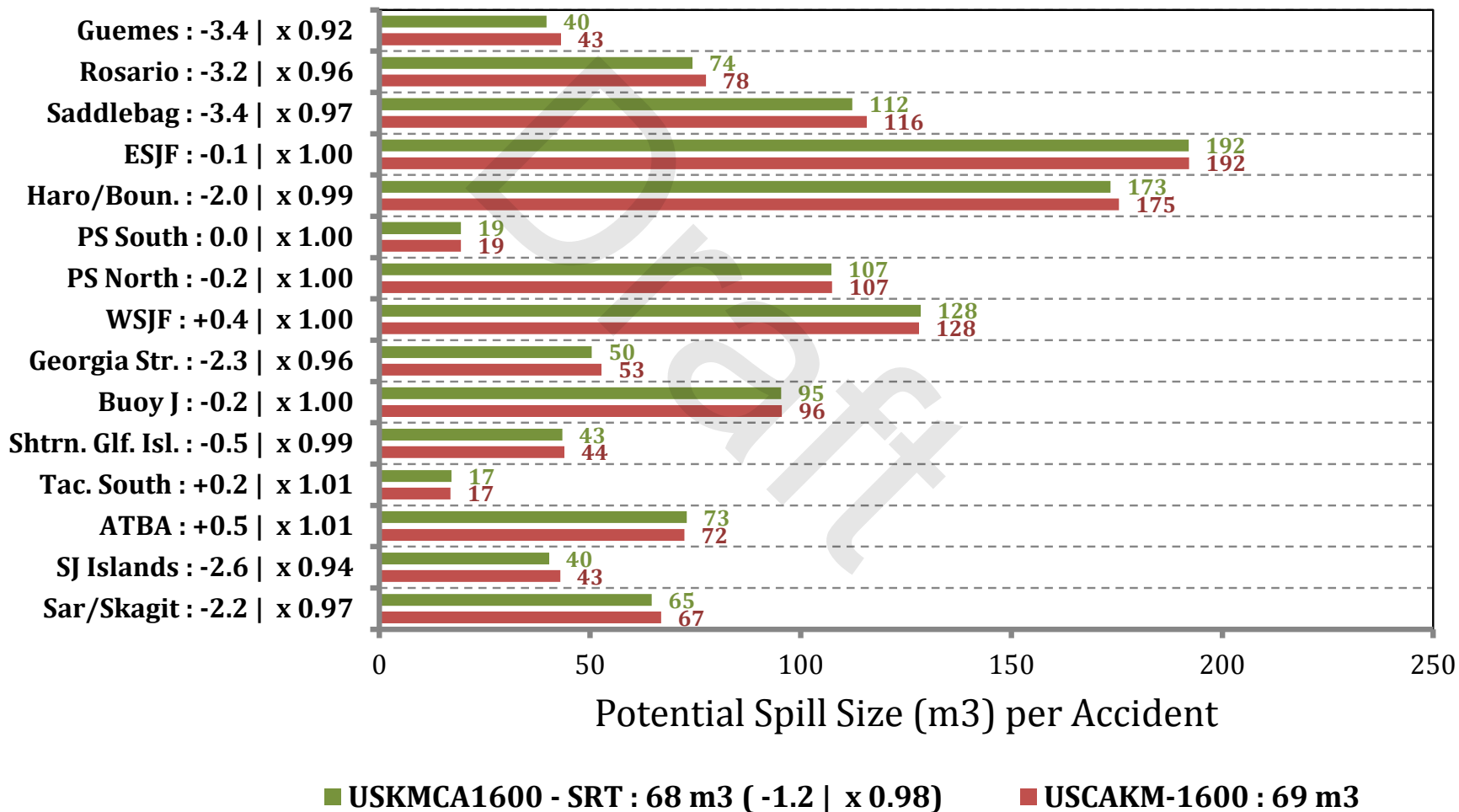
VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

Potential Spill Size (m³) per Accident - ALL_FV - Oil Spill Size Category: 1 - 1000 m³



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

Potential Spill Size (m³) per Accident - ALL_FV - Oil Spill Size Category: 1 - 1000 m³



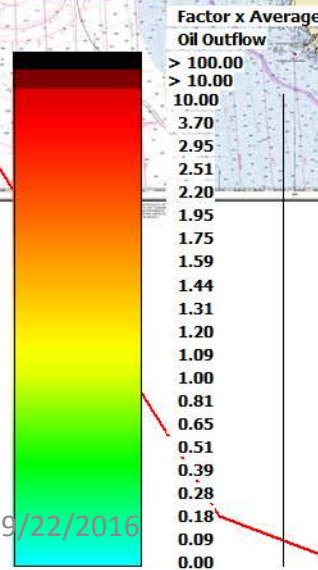
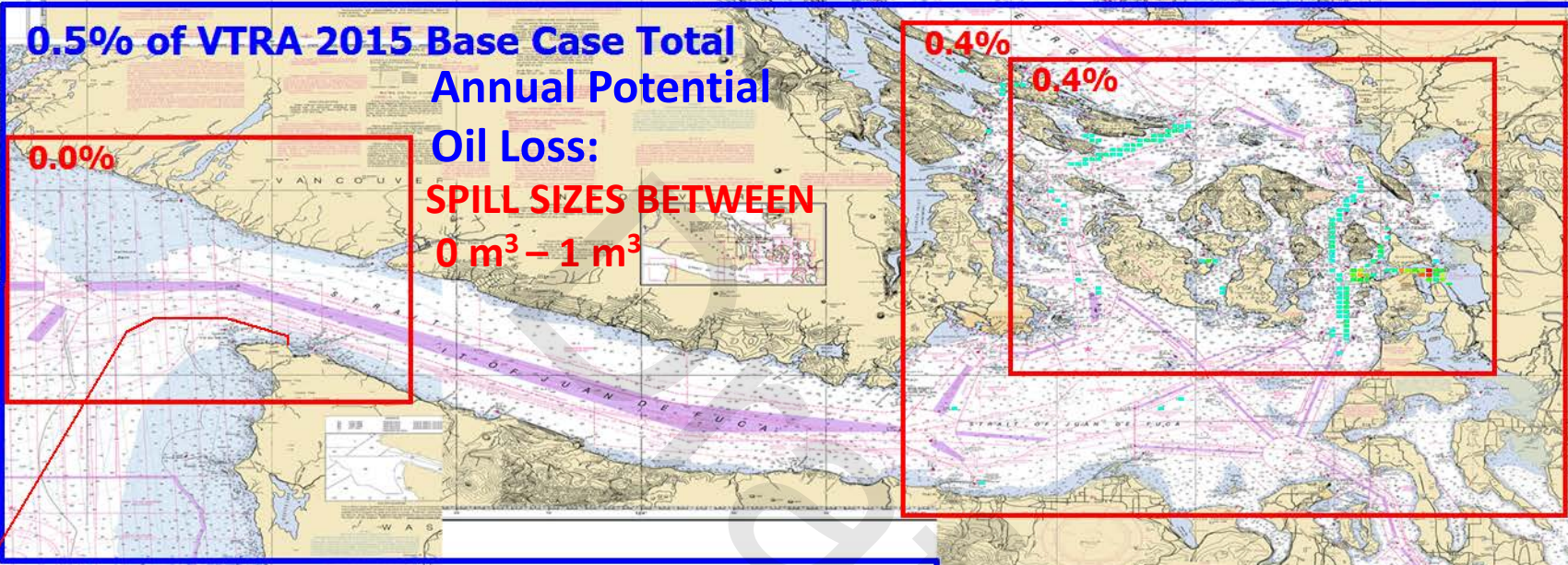
By Waterway Zone Risk Comparison

Oil Spill Size Category:

$0 \text{ m}^3 - 1 \text{ m}^3$

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

VTRA 2015 BASE CASE - ALL FV



VTRA '15:
BASE CASE
GEOGRAPHIC PROFILE
OF ANNUAL
POTENTIAL OIL LOSS
OF ACCIDENTS
WITH SPILL SIZE
BETWEEN 0 m³ - 1 m³

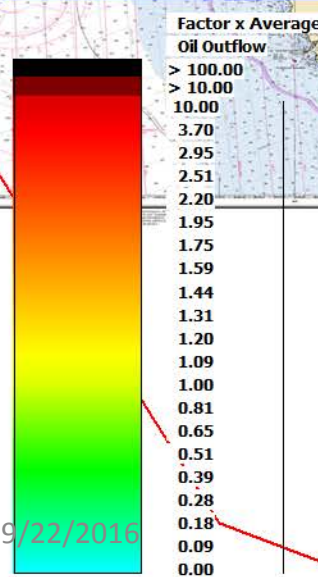
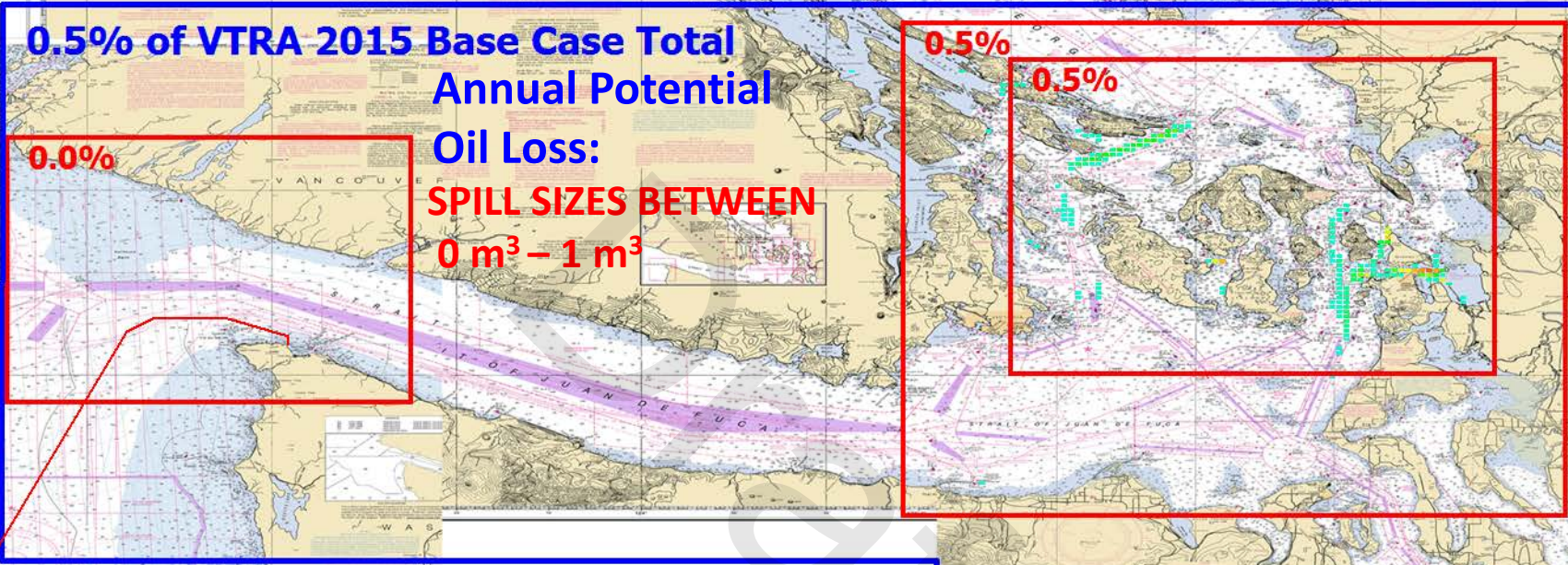
≈ 100% Probability
of Spill Occurrence
in 10 years

Average of ≈ 0.01 m³
Per Potential Spill
(≈ 2.3 gallons)

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



VTRA 2015 Case: USKMCA1600 - ALL FV



VTRA '15 Case:
USKMCA1600
GEOGRAPHIC PROFILE
OF ANNUAL
POTENTIAL OIL LOSS
OF ACCIDENTS
WITH SPILL SIZE
BETWEEN 0 m³ - 1 m³

≈ 100% Probability
of Spill Occurrence
in 10 years

Average of ≈ 0.01 m³
Per Potential Spill
(≈ 2.4 gallons)

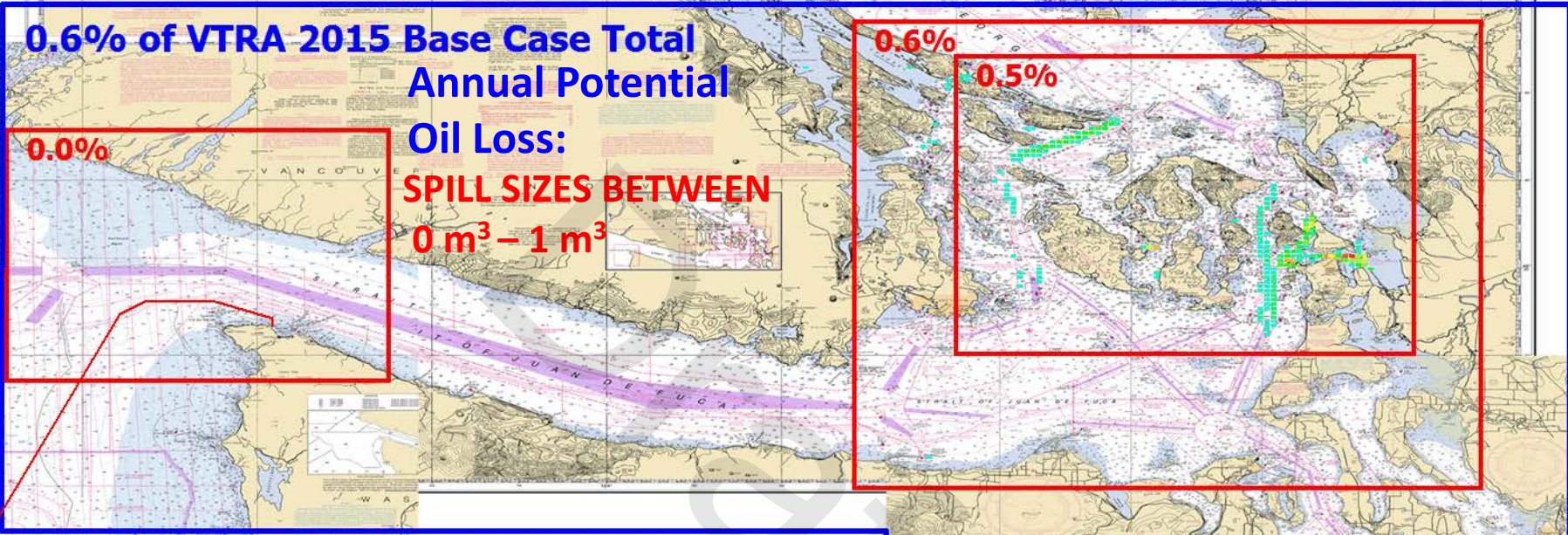
9/22/2016

9/17/2016

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

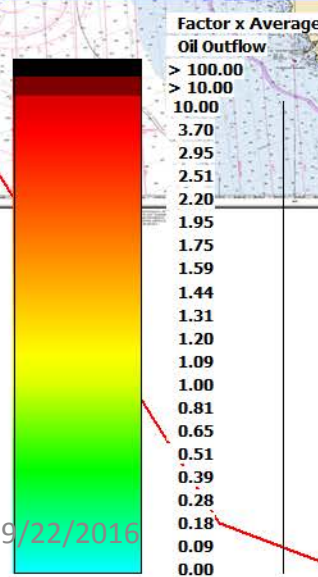


VTRA 2015 Case: USKMCA1600-SRT - ALL FV



0.6% of VTRA 2015 Base Case Total Annual Potential Oil Loss:
SPILL SIZES BETWEEN
0 m³ - 1 m³

0.6%
0.5%



VTRA '15 Case:
USKMCA1600 - SRT
GEOGRAPHIC PROFILE
OF ANNUAL
POTENTIAL OIL LOSS
OF ACCIDENTS
WITH SPILL SIZE
BETWEEN 0 m³ - 1 m³

≈ 100% Probability
of Spill Occurrence
in 10 years

Average of ≈ 0.01 m³
Per Potential Spill
(≈ 2.3 gallons)

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

VTRA 2015 BASE CASE - ALL FV

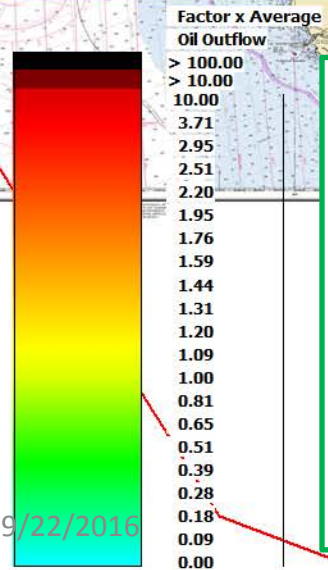
98.2% of VTRA 2015 Base Case Total Potential Annual # Accidents:

0.8%

SPILL SIZES BETWEEN $0\text{ m}^3 - 1\text{ m}^3$

39.2%

29.5%



VTRA '15 Case: **BASE CASE**
GEOGRAPHIC PROFILE OF POTENTIAL ANNUAL # ACCIDENTS WITH SPILL SIZE BETWEEN $0\text{ m}^3 - 1\text{ m}^3$

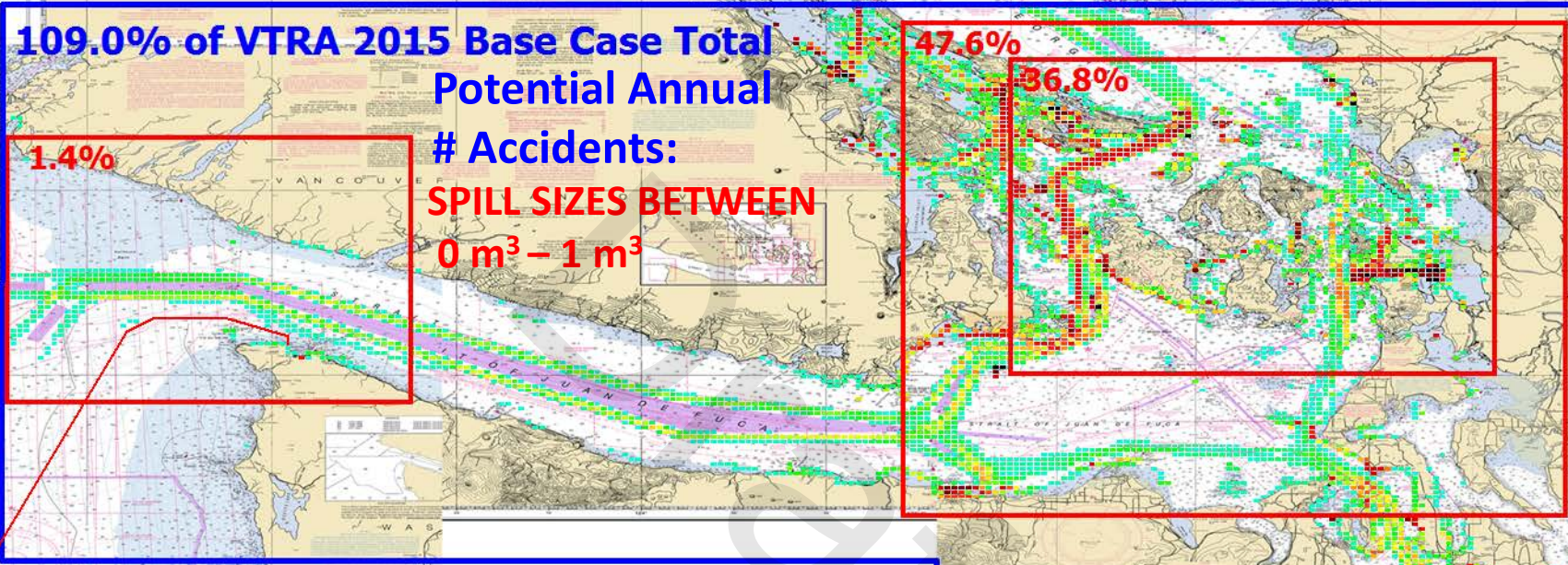
≈ 100% Probability of Spill Occurrence in 10 years

Average of ≈ 0.01 m^3 Per Potential Spill (≈ 2.3 gallons)

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



VTRA 2015 Case: USKMCA1600 - ALL FV



VTRA '15 Case:
USKMCA1600
GEOGRAPHIC PROFILE
OF POTENTIAL ANNUAL
ACCIDENTS
WITH SPILL SIZE
BETWEEN 0 m³ - 1 m³

≈ 100% Probability
of Spill Occurrence
in 10 years

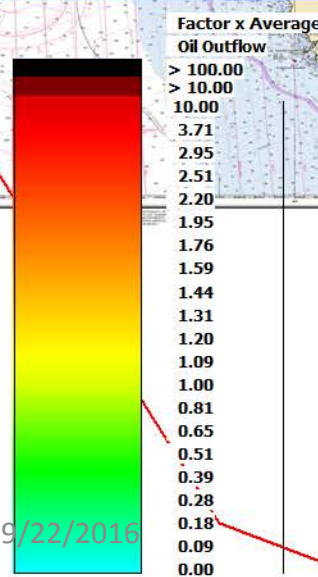
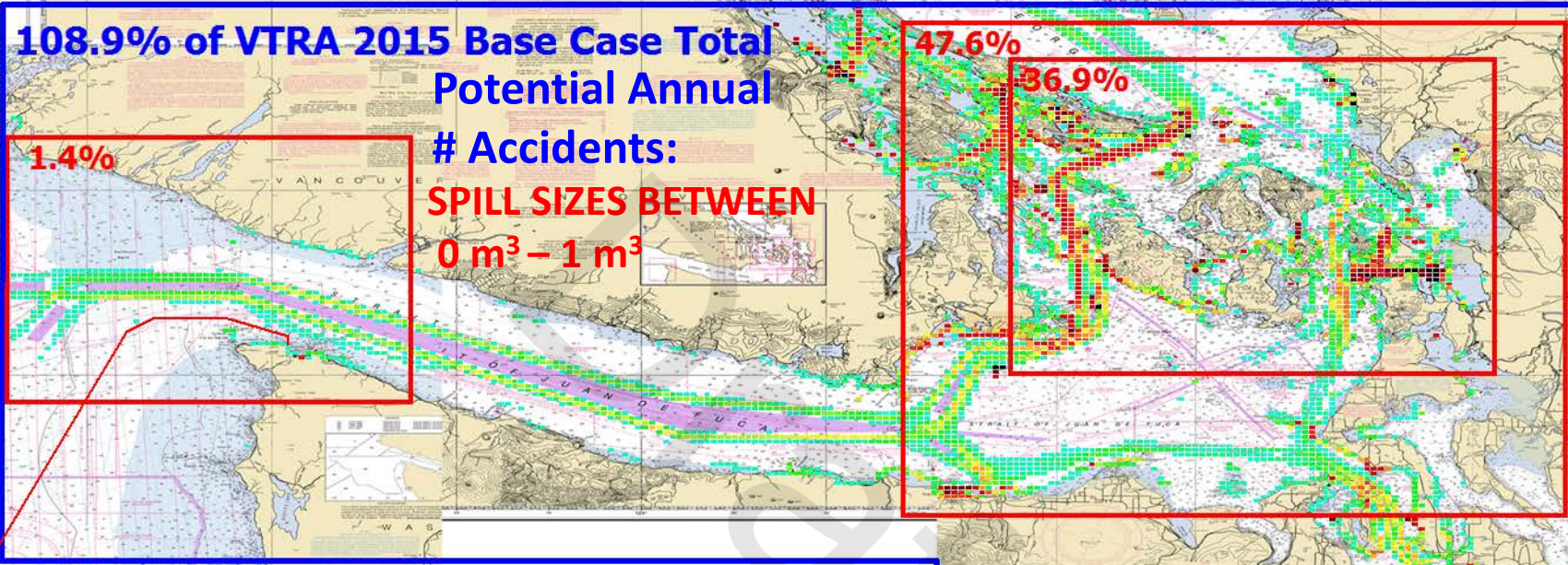
Average of ≈ 0.01 m³
Per Potential Spill
(= 2.4 gallons)

9/22/2016

9/17/2016

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

VTRA 2015 Case: USKMCA1600-SRT - ALL FV



VTRA '15 Case:
USKMCA1600 - SRT
GEOGRAPHIC PROFILE
OF POTENTIAL ANNUAL
ACCIDENTS
WITH SPILL SIZE
BETWEEN $0\text{ m}^3 - 1\text{ m}^3$

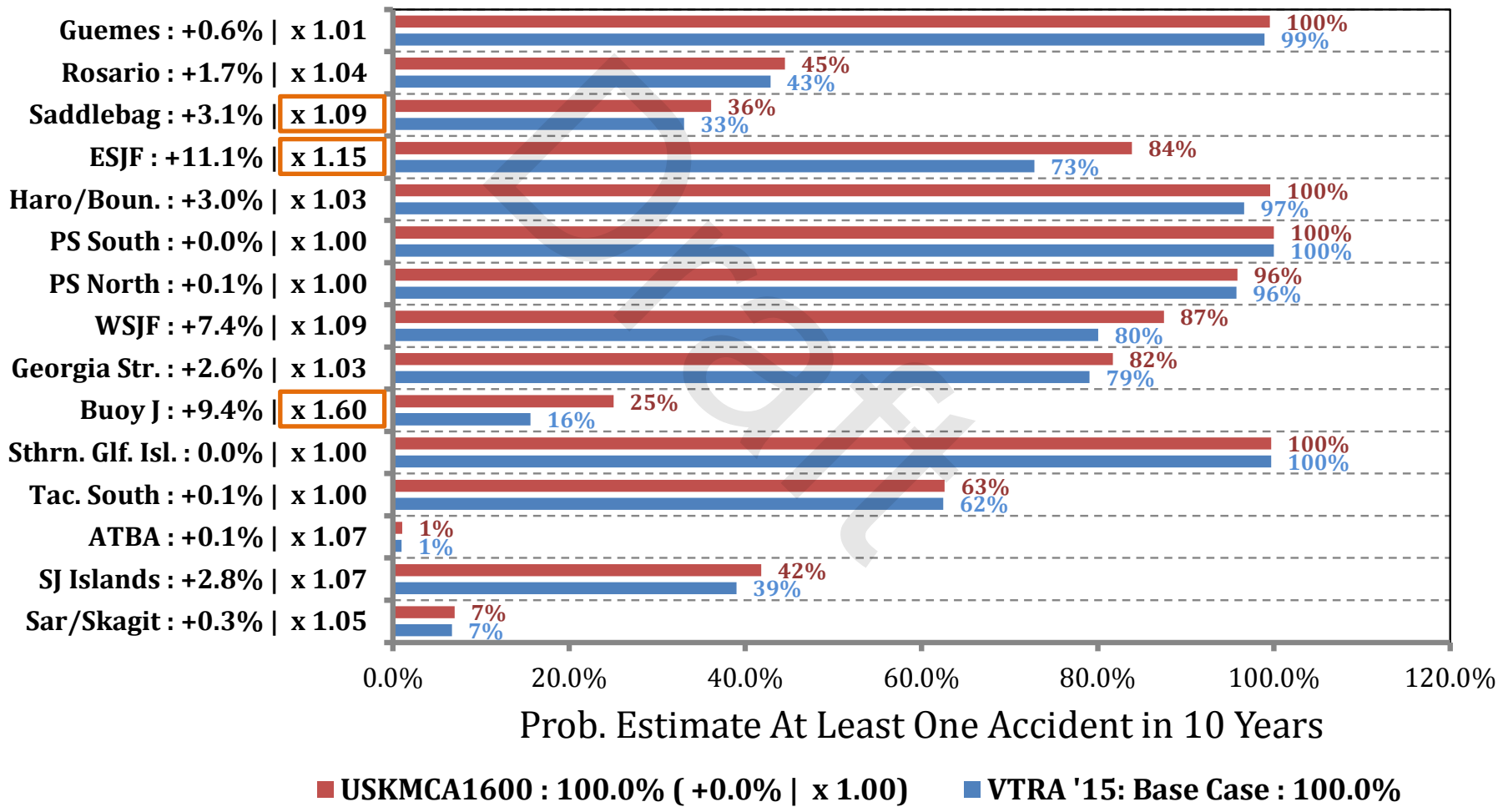
≈ 100% Probability
of Spill Occurrence
in 10 years

Average of ≈ 0.01 m^3
Per Potential Spill
(≈ 2.8 gallons)

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



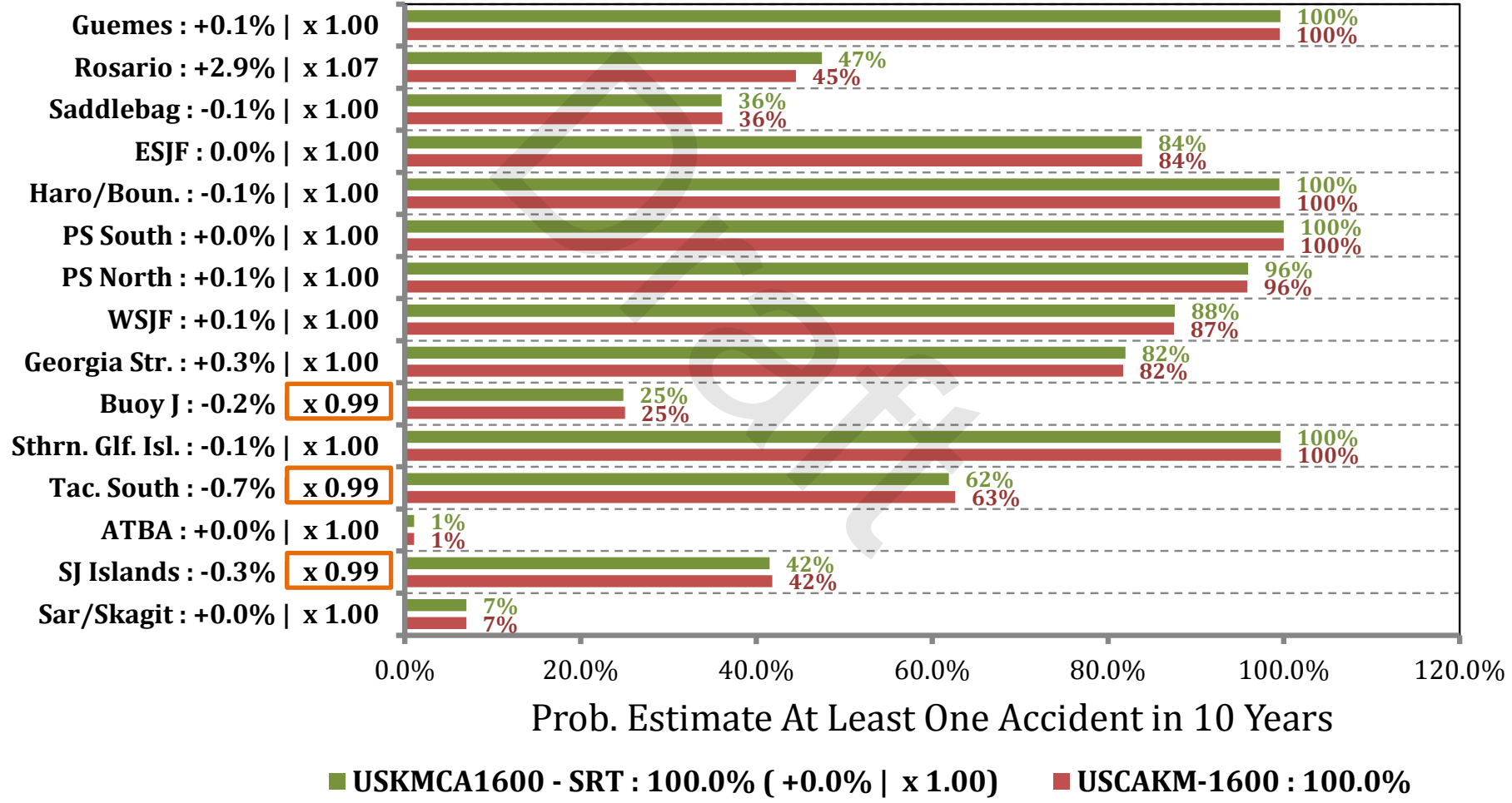
Prob. Estimate At Least One Accident in 10 Years - ALL_FV - Oil Spill Size Category: 0 - 264 Gallons



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

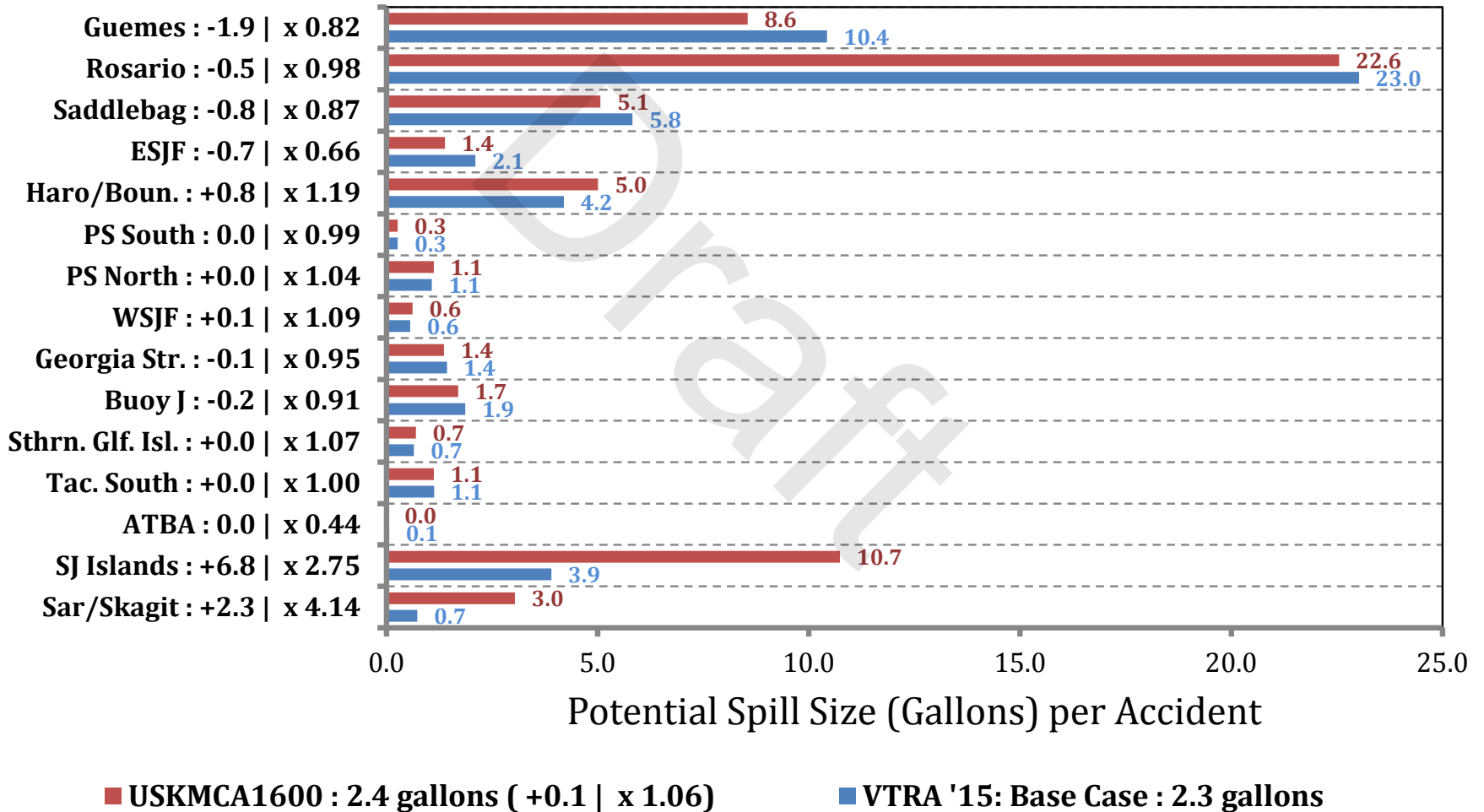


Prob. Estimate At Least One Accident in 10 Years - ALL_FV - Oil Spill Size Category: 0 - 264 Gallons



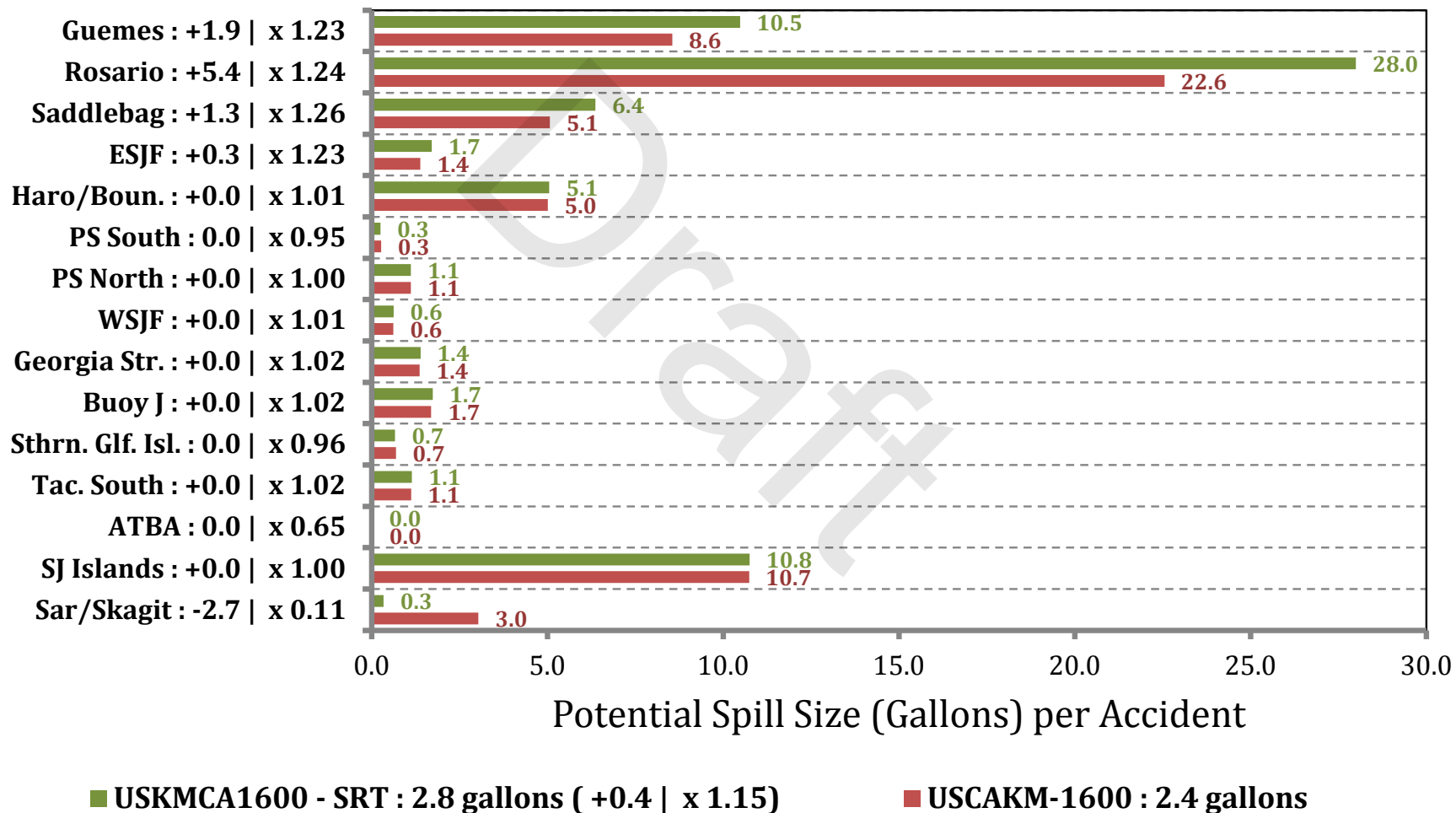
VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

Potential Spill Size (Gallons) per Accident - ALL_FV - Oil Spill Size Category: 0 - 264 Gallons



VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015

Potential Spill Size (Gallons) per Accident - ALL_FV - Oil Spill Size Category: 0 - 264 Gallons



Summary Risk Comparison

Oil Spill Size Category:
All Spill Sizes

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



Summary Risk Comparison Base Case to USKMCA1600

		OIL_2500_MORE	OIL_1000_2500	OIL_1_1000	OIL_0_1	TOTAL_OIL
VTRA '15 BASE CASE	Base Case % Potential Annual Oil Loss	42.0%	12.3%	45.3%	0.5%	100.0%
	Base Case % Potential Annual Accident Frequency	0.01%	0.01%	1.8%	98.2%	100.0%
	Average potential spill size per accident (in m ³)	6,798	1,619	46.9	0.01	1.8
	Probability of at least one accident in 1 year by spill size	0.05%	0.06%	7.5%	98.7%	98.8%
	Probability of at least one accident in 10 year by spill size	0.50%	0.61%	54.2%	100.0%	100.0%
	Probability of at least one accident in 25 years by spill size	1.24%	1.52%	85.8%	100.0%	100.0%
		OIL_2500_MORE	OIL_1000_2500	OIL_1_1000	OIL_0_1	TOTAL_OIL
USKMCA1600	Base Case % Potential Annual Oil Loss	91.1% (+49.11% x2.17)	20.0% (+7.71% x1.63)	72.8% (+27.54% x1.61)	0.5% (+0.08% x1.17)	184.4% (+84.4% x1.84)
	Base Case % Potential Annual Accident Frequency	0.03% (+0.02% x2.72)	0.02% (+0.01% x1.56)	1.9% (+0.16% x1.09)	108.9% (+10.7% x1.11)	110.9% (+10.9% x1.11)
	Average potential spill size per accident (in m ³)	5413 (-1385 x0.80)	1693 (+75 x1.05)	69.2 (+22.3 x1.48)	0.01 (+0.00 x1.06)	3.0 (+1.2 x1.66)
	Probability of at least one accident in 1 year by spill size	0.14% (+0.09% x2.72)	0.10% (+0.03% x1.56)	8.2% (+0.64% x1.09)	99.2% (+0.48% x1.00)	99.3% (+0.45% x1.00)
	Probability of at least one accident in 10 year by spill size	1.35% (+0.85% x2.71)	0.95% (+0.34% x1.55)	57.3% (+3.09% x1.06)	100.0% (0.00% x1.00)	100.0% (0.00% x1.00)
	Probability of at least one accident in 25 years by spill size	3.35% (+2.10% x2.70)	2.36% (+0.84% x1.55)	88.1% (+2.27% x1.03)	100.0% (0.00% x1.00)	100.0% (0.00% x1.00)

VESSEL TRAFFIC RISK ASSESSMENT (VTRA) 2015



Summary Risk Comparison USKMCA1600 to USKMCA1600-SRT

		OIL_2500_MORE	OIL_1000_2500	OIL_1_1000	OIL_0_1	TOTAL_OIL
USACAKM1600	Base Case % Potential Annual Oil Loss	91.0%	19.9%	72.7%	0.5%	184.1%
	Base Case % Potential Annual Accident Frequency	0.03%	0.02%	1.9%	108.9%	110.9%
	Average potential spill size per accident (in m ³)	5,413	1,693	69.2	0.01	3.0
	Probability of at least one accident in 1 year by spill size	0.14%	0.10%	8.2%	99.2%	99.3%
	Probability of at least one accident in 10 year by spill size	1.35%	0.95%	57.3%	100.0%	100.0%
	Probability of at least one accident in 25 years by spill size	3.35%	2.36%	88.1%	100.0%	100.0%
		OIL_2500_MORE	OIL_1000_2500	OIL_1_1000	OIL_0_1	TOTAL_OIL
USACAKM1600 - SRT	Base Case % Potential Annual Oil Loss	91.6% (+0.6% x1.01)	19.5% (-0.44% x0.98)	71.3% (-1.41% x0.98)	0.6% (+0.08% x1.15)	183.0% (-1.2% x0.99)
	Base Case % Potential Annual Accident Frequency	0.03% (0.00% x1.00)	0.02% (0.00% x0.98)	1.9% (0.00% x1.00)	108.8% (-0.1% x1.00)	110.7% (-0.1% x1.00)
	Average potential spill size per accident (in m ³)	5453 (+41 x1.01)	1694 (+1 x1.00)	68.0 (-1.2 x0.98)	0.01 (+0.00 x1.15)	3.0 (0.0 x0.99)
	Probability of at least one accident in 1 year by spill size	0.14% (0.00% x1.00)	0.09% (0.00% x0.98)	8.1% (-0.02% x1.00)	99.2% (0.00% x1.00)	99.3% (0.00% x1.00)
	Probability of at least one accident in 10 year by spill size	1.35% (0.00% x1.00)	0.93% (-0.02% x0.98)	57.2% (-0.08% x1.00)	100.0% (0.00% x1.00)	100.0% (0.00% x1.00)
	Probability of at least one accident in 25 years by spill size	3.34% (0.00% x1.00)	2.30% (-0.05% x0.98)	88.0% (-0.05% x1.00)	100.0% (0.00% x1.00)	100.0% (0.00% x1.00)