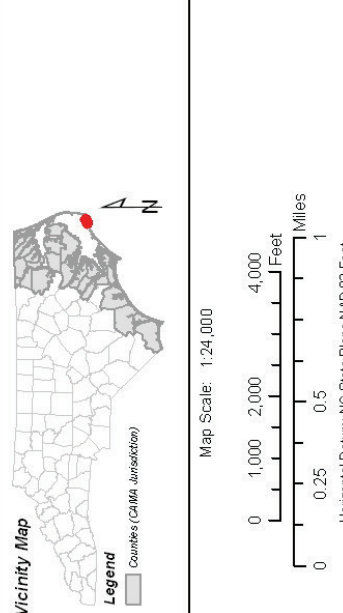




# 2011 Long-Term Average Annual Erosion Rate Update at Outer Banks (Hatteras), North Carolina



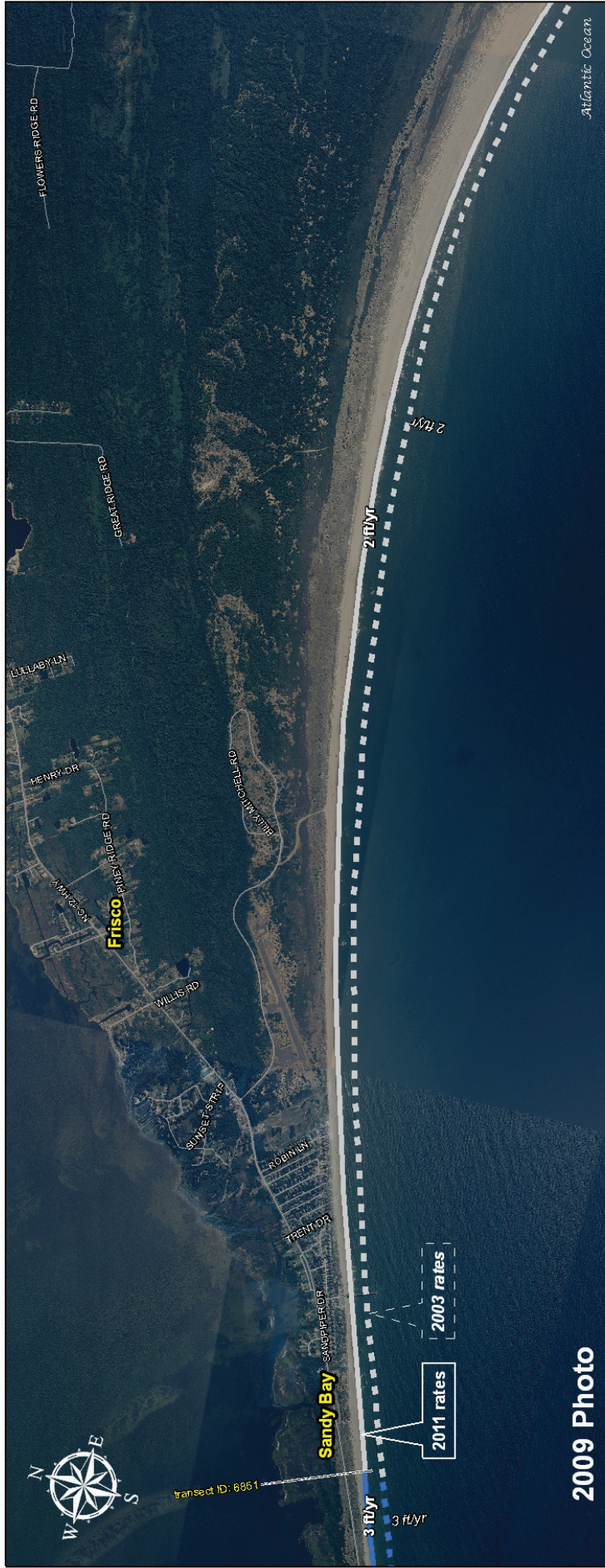
Setback Factors on this map represents long-term average annual erosion rates measured in feet per year. Shoreline segments that are accreting or have erosion rates less than two feet per year receive a setback factor value equal to two.

The information presented here is not predictive, nor does it reflect short-term erosion potential. This map may not be suitable for property specific determination of erosion rate factors near rate transition boundaries due to its small scale. For site specific determinations contact your CAMA Local Permit Official, or regional Division of Coastal Management field office.

**NC DIVISION OF COASTAL MANAGEMENT**

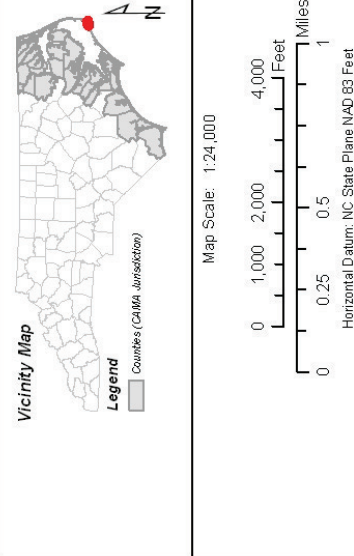
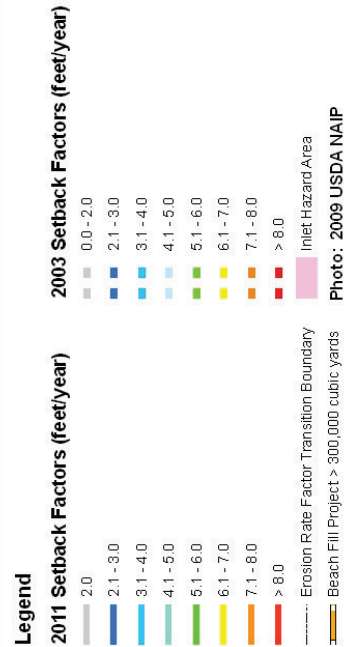
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**Map No. Outer Banks - 1 of 3**



2009 Photo

## 2011 Long-Term Average Annual Erosion Rate Update at Outer Banks (Hatteras), North Carolina



Setback Factors on this map represents long-term average annual erosion rates measured in feet per year. Shoreline segments that are accreting or have erosion rates less than two feet per year receive a setback factor value equal to two.

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Map No. Outer Banks-Hatteras - 2 of 3



# 2011 Long-Term Average Annual Erosion Rate Update at Outer Banks (Hatteras), North Carolina

**Legend**

<b>2011 Setback Factors (feet/year)</b>	<b>2003 Setback Factors (feet/year)</b>
2.0	0.0 - 2.0
2.1 - 3.0	2.1 - 3.0
3.1 - 4.0	3.1 - 4.0
4.1 - 5.0	4.1 - 5.0
5.1 - 6.0	5.1 - 6.0
6.1 - 7.0	6.1 - 7.0
7.1 - 8.0	7.1 - 8.0
> 8.0	> 8.0

- - - - - Erosion Rate Factor Transition Boundary  
 Beach Fill Project > 300,000 cubic yards  
 Inlet Hazard Area  
 Photo: 2009 USDA NAIP

**Vicinity Map**

**Legend**

Counties (CAMA Jurisdiction)

Map Scale: 1:24,000

Horizontal Datum: NC State Plane NAD 83 Feet

0 1,000 2,000 4,000 Feet

0 0.25 0.5 1 Miles

Setback Factors on this map represents long-term average annual erosion rates measured in feet per year. Shoreline segments that are accreting or have erosion rates less than two feet per year receive a setback factor value equal to two.

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**Map No. Outer Banks-Hatteras - 3 of 3**



# 2011 Long-Term Average Annual Erosion Rate Update at Outer Banks (Buxton), North Carolina

**Legend**

<b>2011 Setback Factors (feet/year)</b>	<b>2003 Setback Factors (feet/year)</b>
2.0	0.0 - 2.0
2.1 - 3.0	2.1 - 3.0
3.1 - 4.0	3.1 - 4.0
4.1 - 5.0	4.1 - 5.0
5.1 - 6.0	5.1 - 6.0
6.1 - 7.0	6.1 - 7.0
7.1 - 8.0	7.1 - 8.0
> 8.0	> 8.0

- - - - - Erosion Rate Factor Transition Boundary  
 Beach Fill Project > 300,000 cubic yards  
 Inlet Hazard Area  
 Photo: 2009 USDA NAIP

**Vicinity Map**

**Legend**

Counties (CAMA Jurisdiction)

Map Scale: 1:24,000

Horizontal Datum: NC State Plane NAD 83 Feet

0 1,000 2,000 4,000 Feet

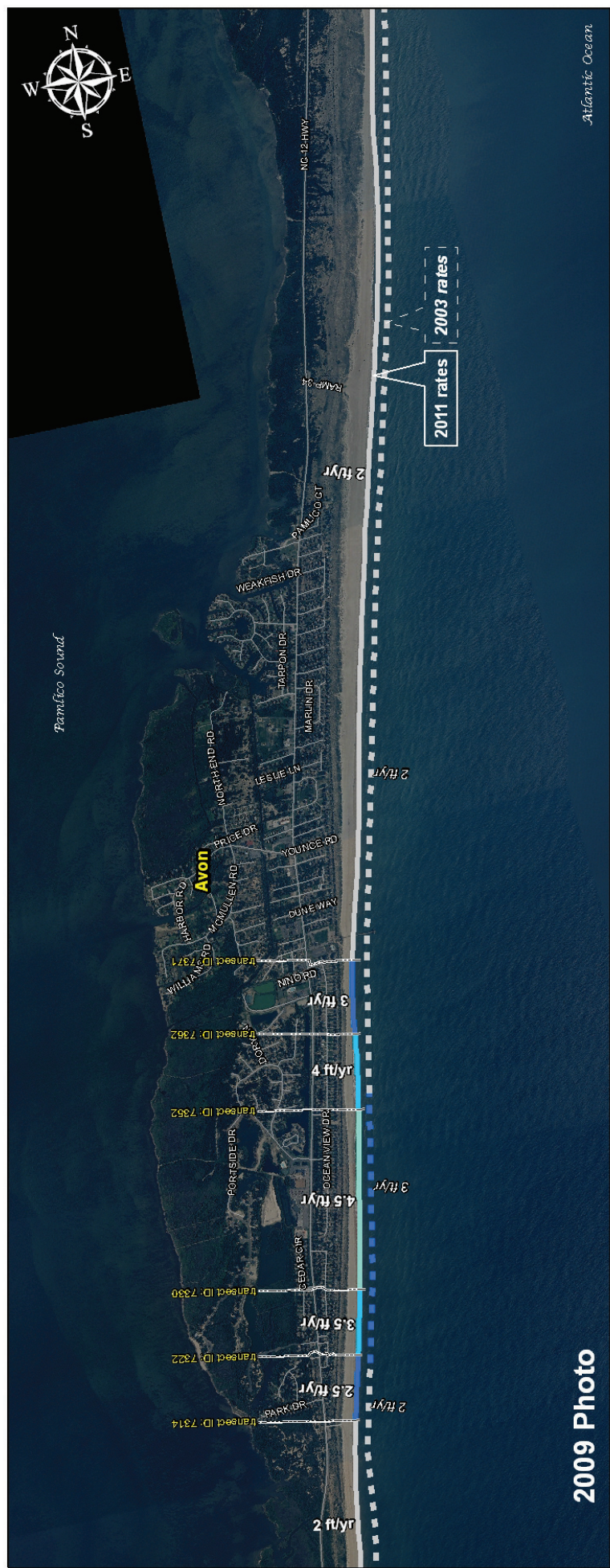
0 0.25 0.5 1 Miles

Setback Factors on this map represents long-term average annual erosion rates measured in feet per year. Shoreline segments that are accreting or have erosion rates less than two feet per year receive a setback factor value equal to two.

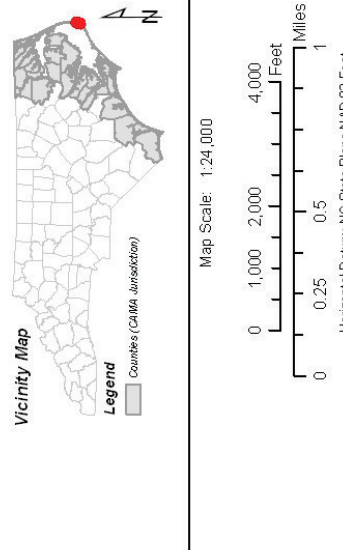
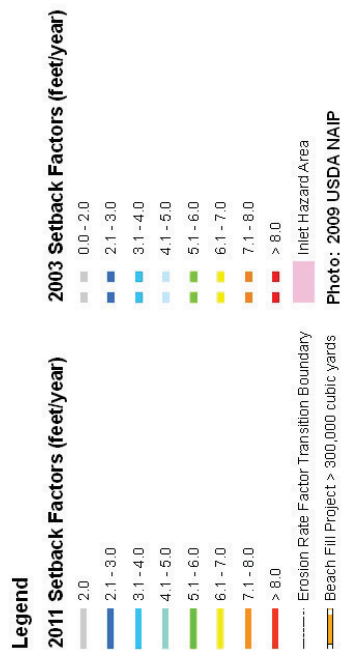
The information presented here is not predictive, nor does it reflect short-term erosion potential. This map may not be suitable for property specific determination of erosion rate factors near rate transition boundaries due to its small scale. For site specific determinations contact your CAMA Local Permit Official, or regional Division of Coastal Management field office.

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**Map No. Outer Banks - Buxton - 1 of 1**



# 2011 Long-Term Average Annual Erosion Rate Update at Outer Banks (Avon), North Carolina



Setback Factors on this map represents long-term average annual erosion rates measured in feet per year. Shoreline segments that are accreting or have erosion rates less than two feet per year receive a setback factor value equal to two.

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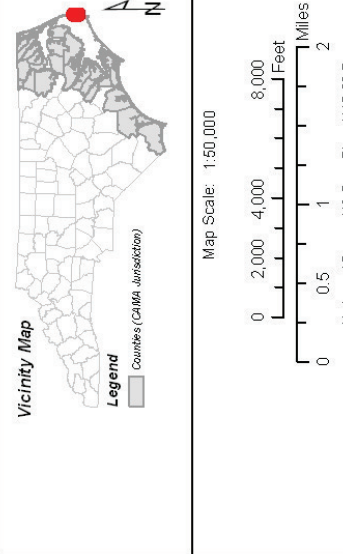
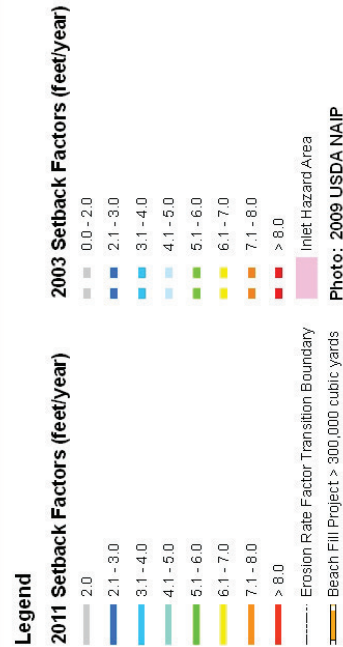


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**Map No. Outer Banks - Avon - 1 of 1**



# 2011 Long-Term Average Annual Erosion Rate Update at Outer Banks (National Seashore), North Carolina



Setback Factors on this map represents long-term average annual erosion rates measured in feet per year. Shoreline segments that are accreting or have erosion rates less than two feet per year receive a setback factor value equal to two.

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Map No. Outer Banks - 1 of 4



**2009 Photo**

## 2011 Long-Term Average Annual Erosion Rate Update at Outer Banks (Salvo, Waves, & Rodanthe), North Carolina

**Legend**

**2011 Setback Factors (feet/year)**

- 2.0
- 2.1 - 3.0
- 3.1 - 4.0
- 4.1 - 5.0
- 5.1 - 6.0
- 6.1 - 7.0
- 7.1 - 8.0
- > 8.0

**2003 Setback Factors (feet/year)**

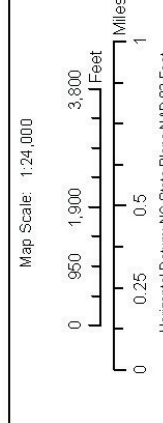
- 0.0 - 2.0
- 2.1 - 3.0
- 3.1 - 4.0
- 4.1 - 5.0
- 5.1 - 6.0
- 6.1 - 7.0
- 7.1 - 8.0
- > 8.0

--- Erosion Rate Factor Transition Boundary

--- Inlet Hazard Area

--- Beach Fill Project > 300,000 cubic yards

**Photo: 2009 USDA NAIP**



Setback Factors on this map represents long-term average annual erosion rates measured in feet per year. Shoreline segments that are accreting or have erosion rates less than two feet per year receive a setback factor value equal to two.

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**Map No. Outer Banks - 2 of 4**



**2009 Photo**

# 2011 Long-Term Average Annual Erosion Rate Update at Outer Banks (Rodanthe), North Carolina

**Legend**

<b>2011 Setback Factors (feet/year)</b>	<b>2003 Setback Factors (feet/year)</b>
2.0	0.0 - 2.0
2.1 - 3.0	2.1 - 3.0
3.1 - 4.0	3.1 - 4.0
4.1 - 5.0	4.1 - 5.0
5.1 - 6.0	5.1 - 6.0
6.1 - 7.0	6.1 - 7.0
7.1 - 8.0	7.1 - 8.0
> 8.0	> 8.0

- - - - - Erosion Rate Factor Transition Boundary  
 Beach Fill Project > 300,000 cubic yards  
 Inlet Hazard Area  
 Photo: 2009 USDA NAIP

**Vicinity Map**

**Legend**  
Counties (CAMA Jurisdiction)

Map Scale: 1:24,000

0 1,000 2,000 4,000 Feet  
0 0.25 0.5 1 Miles  
Horizontal Datum: NC State Plane NAD 83 Feet

Setback Factors on this map represents long-term average annual erosion rates measured in feet per year. Shoreline segments that are accreting or have erosion rates less than two feet per year receive a setback factor value equal to two.

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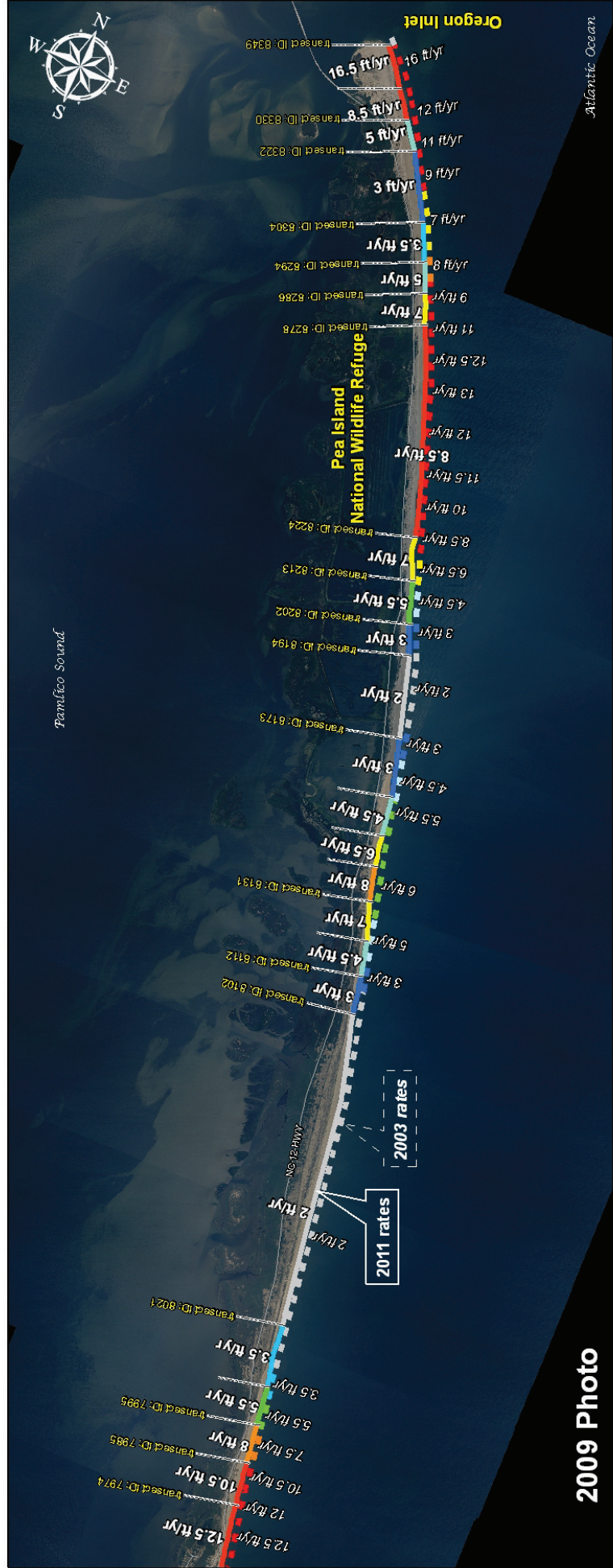


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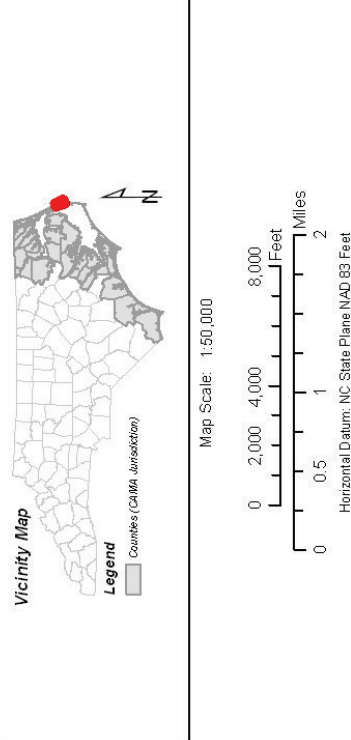
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**Map No. Outer Banks - 3 of 4**





# 2011 Long-Term Average Annual Erosion Rate Update at Outer Banks (Pea Island Nat'l Wildlife Refuge), North Carolina



**Legend**

<b>2011 Setback Factors (feet/year)</b>	<b>2003 Setback Factors (feet/year)</b>
2.0	0.0 - 2.0
2.1 - 3.0	2.1 - 3.0
3.1 - 4.0	3.1 - 4.0
4.1 - 5.0	4.1 - 5.0
5.1 - 6.0	5.1 - 6.0
6.1 - 7.0	6.1 - 7.0
7.1 - 8.0	7.1 - 8.0
> 8.0	> 8.0

- - - - - Erosion Rate Factor Transition Boundary  
 Beach Fill Project > 300,000 cubic yards  
 Inlet Hazard Area  
 Photo: 2009 USDA NAIP

Setback Factors on this map represents long-term average annual erosion rates measured in feet per year. Shoreline segments that are accreting or have erosion rates less than two feet per year receive a setback factor value equal to two.

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**Map No. Outer Banks - 4 of 4**