

Florida Sea Grant College Program

# WORKING WATERFRONTS AND THE U.S. OCEAN ECONOMY



**NEW PARTNERS FOR SMART GROWTH CONFERENCE  
KANSAS CITY, MO | FEBRUARY 7, 2013**

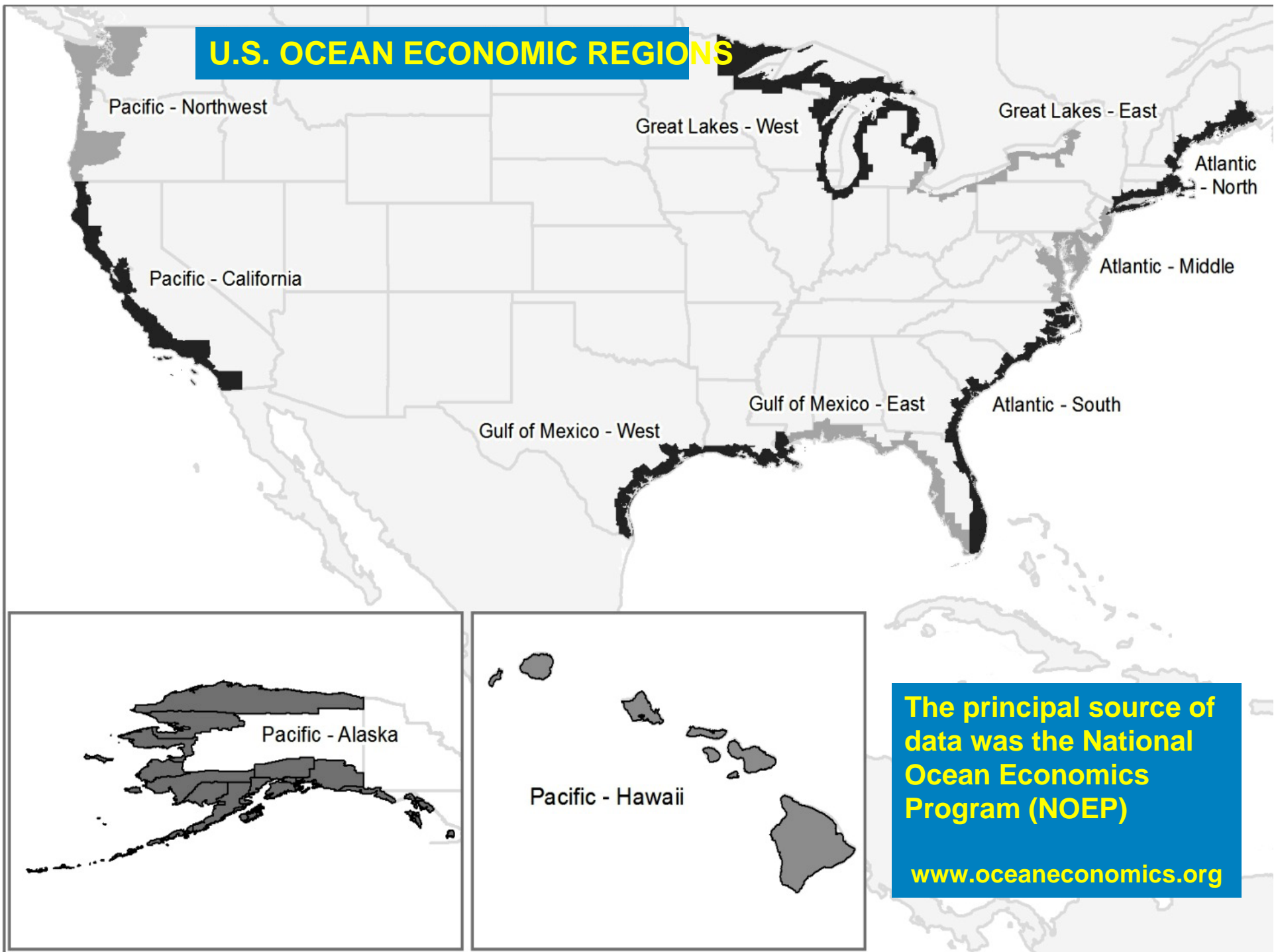
**PRESENTED ON BEHALF OF PROJECT TEAM  
BY  
BOB SWETT, WATERWAY PLANNING SPECIALIST,  
FLORIDA SEA GRANT, UNIVERSITY OF FLORIDA**



# OUTLINE OF TALK

- What is a Working Waterfront
- The U.S. Ocean Economy and its value
- Drivers of change to Working Waterfronts
  - Demographic
  - Economic
  - Environmental
  - Technological

# U.S. OCEAN ECONOMIC REGIONS

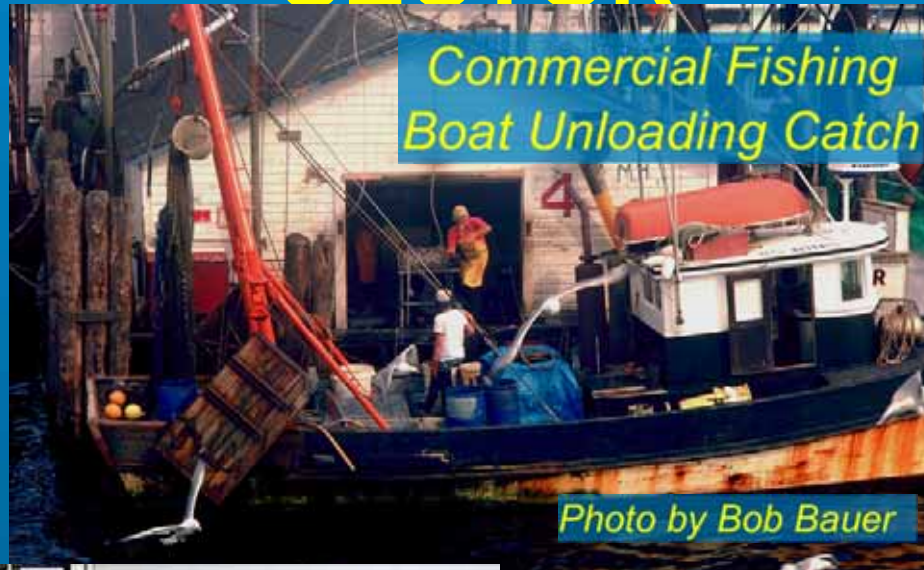


The principal source of data was the National Ocean Economics Program (NOEP)

[www.oceaneconomics.org](http://www.oceaneconomics.org)

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# MARINE LIVING RESOURCES SECTOR



*Commercial Fishing  
Boat Unloading Catch*

*Photo by Bob Bauer*



*Seafood Processing*



*Seafood Market*



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# MARINE TRANSPORTATION SECTOR

## *Cruise Season*

*Photo by Port of San Diego*



## *Water Taxi*



## *Container Ship at Port in Boston*



# SHIP AND BOAT BUILDING AND REPAIR SECTOR

*Todd Shipyard in  
Seattle*



*Photo by Washington State  
Dept of Transportation*



*Photo by CreativeLena*





# OFFSHORE MINERALS SECTOR



*Oil Refinery*

*Photo by Louis Vest*



*Oil Drilling Platform*

*Photo by Mike Baird*



*Sand Mining*

*Photo by USACE*





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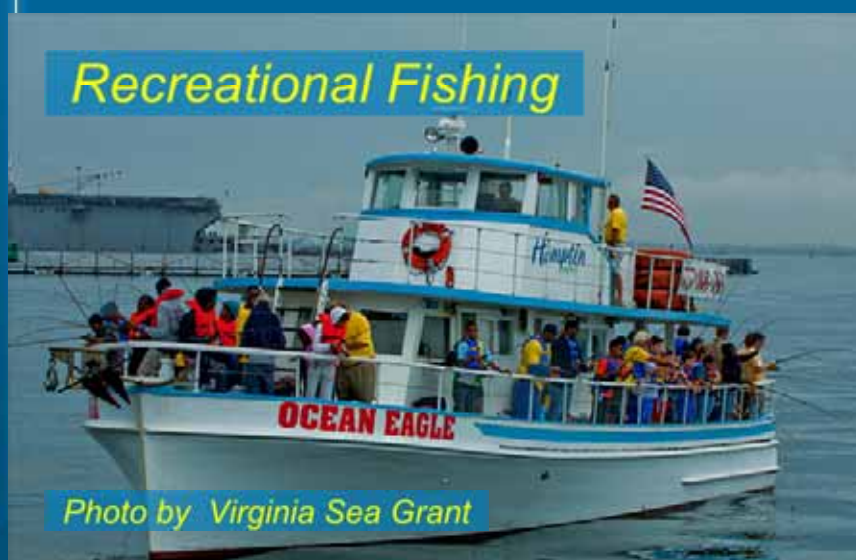
# COASTAL & MARINE TOURISM SECTOR



*Recreational Boating*



*Boat Dealer & Marina*



*Recreational Fishing*

*Photo by Virginia Sea Grant*



*At The Beach*

*Photo by Parker Knight*



# OCEAN ECONOMIC ACTIVITY - 2009

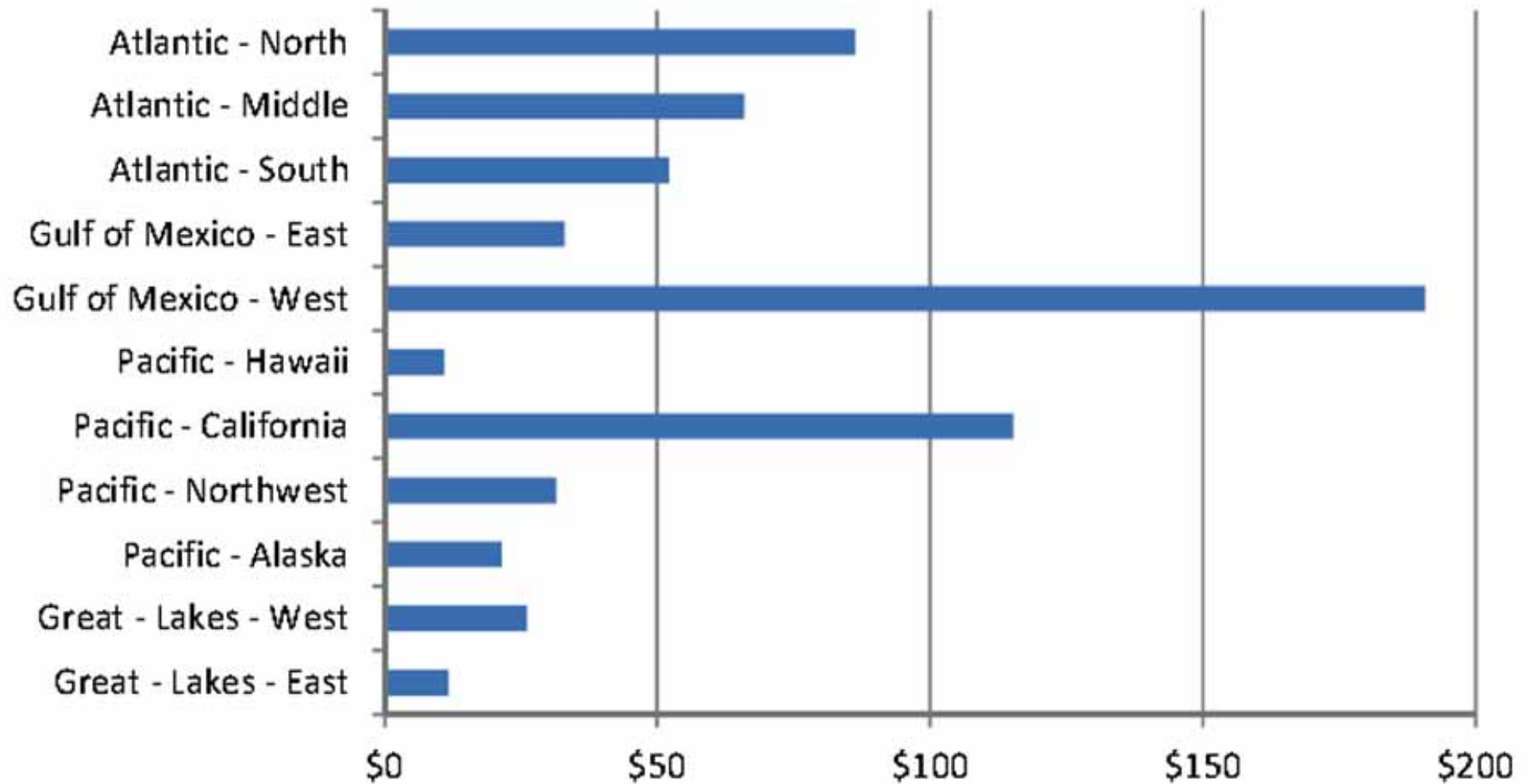
- 130,855 businesses
- 2.4 million full-time & part-time jobs
- \$84 billion in wages & benefits
- \$217 billion in GDP
  
- **3.4% of total GDP**
- **4.9% of total employment**

# OCEAN ECONOMIC ACTIVITY - 2009

- 6.8 million full-time & part-time jobs
  - \$284 billion in wages & benefits
  - \$645 billion in GDP
- 
- **2.8 to 3.4 times direct effects due to first round spending alone**



# OCEAN-RELATED TOTAL GDP IN 2009



(Data Source: National Ocean Economics Program)

**GDP Contributions in \$ Billions**

# SHARE OF OCEAN ECONOMY JOBS, WAGES AND GROSS DOMESTIC PRODUCT IN 2009

U.S. Coastal Region	U.S. Ocean Economy		
	Employment	Wages	Gross Domestic Product
Atlantic - North	18.3%	15.3%	12.1%
Atlantic - Middle	13.5%	11.9%	7.8%
Atlantic - South	10.8%	7.3%	6.6%
Gulf of Mexico - East	8.4%	5.6%	5.0%
Gulf of Mexico - West	9.9%	23.7%	38.3%
Pacific - Hawaii	3.9%	3.4%	2.4%
Pacific - California	17.8%	18.3%	14.1%
Pacific - Northwest	5.0%	5.6%	4.5%
Pacific - Alaska	1.6%	2.3%	4.0%
Great Lakes - East	3.8%	2.1%	1.6%
Great Lakes - West	7.0%	4.4%	3.6%
<b>All Regions</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>



# TOTAL SHARE OF GROSS DOMESTIC PRODUCT BY OCEAN-RELATED SECTORS IN 2009

U.S. Coastal Regions	U.S. Ocean Economy Sectors						All Sectors
	Marine Construction	Living Resources	Offshore Minerals	Ship & Boat Building	Tourism & Recreation	Marine Transportation	
Atlantic Middle	0.4%	0.2%	0.0%	1.6%	4.7%	3.3%	10.2%
Atlantic North	0.3%	0.5%	0.0%	0.4%	10.3%	1.9%	13.4%
Atlantic South	0.4%	0.1%	0.0%	0.4%	4.4%	2.7%	8.1%
GOM East	0.3%	0.1%	0.0%	0.5%	3.5%	0.8%	5.1%
GOM West	0.5%	0.1%	26.1%	0.3%	0.9%	1.7%	29.6%
Great Lakes East	0.0%	0.0%	0.0%	0.0%	1.2%	0.5%	1.8%
Great Lakes West	0.1%	0.0%	0.1%	0.0%	2.9%	0.8%	4.0%
Pacific-Alaska	0.1%	0.3%	2.6%	0.0%	0.3%	0.0%	3.3%
Pacific-California	0.6%	0.1%	0.0%	0.8%	8.2%	8.1%	17.9%
Pacific-Hawaii	0.0%	0.0%	0.0%	0.0%	1.5%	0.1%	1.7%
Pacific-Northwest	0.2%	0.3%	0.0%	2.1%	1.3%	1.0%	4.9%
<b>All Regions</b>	<b>2.9%</b>	<b>1.7%</b>	<b>28.9%</b>	<b>6.1%</b>	<b>39.4%</b>	<b>20.9%</b>	<b>100%</b>



# FUTURE PROSPECTS PREDICTED NEGATIVE GROWTH

U.S. Coastal State	U.S. Coastal County (or equivalent)	U.S. Ocean Economy Sector	2009 GDP (Thousand \$)
Virginia	Arlington	Living Resources	8
Texas	San Patricio	Ship & Boat Building	495
Virginia	Northumberland	Living Resources	403
Alaska	Aleutians West	Transportation	367
Michigan	Cheboygan	Construction	244
Louisiana	St. Charles	Construction	985
Virginia	Newport News City	Living Resources	74
North Carolina	Brunswick	Living Resources	835
Florida	Brevard	Minerals	408
Louisiana	Orleans	Ship & Boat Building	3,532
New York	Niagara	Construction	442
Virginia	Fairfax	Transportation	2,174
Pennsylvania	Philadelphia	Construction	4,767
Mississippi	Harrison	Living Resources	3,056
Maine	Knox	Living Resources	1,157



# FUTURE PROSPECTS PREDICTED POSITIVE GROWTH

U.S. Coastal State	U.S. Coastal County	U.S. Ocean Economy Sector	GDP Value 2009 (Million \$)	Predicted GDP Value 2020 (Million \$)	2009-20 GDP change (%)
North Carolina	Chowan	Ship & Boat Building	2.3	52	500%
Maryland	Cecil	Transportation	46	167	263%
California	Mendocino	Transportation	6	22	243%
North Carolina	Dare	Ship & Boat Building	27	89	232%
Michigan	Saginaw	Tourism & Recreation	168	507	202%
Alaska	Kenai Peninsula	Minerals	504	1,510	200%
New Jersey	Salem	Transportation	57	171	199%
New York	Chautauqua	Minerals	33	98	196%
Texas	Nueces	Minerals	715	2,041	186%
South Carolina	Charleston	Ship & Boat Building	116	329	183%
Alaska	Anchorage	Minerals	4,626	12,828	177%
Washington	Mason	Living Resources	20	54	172%
Washington	Snohomish	Minerals	43	117	169%
Michigan	Muskegon	Transportation	14	37	164%
Maryland	Prince George's	Transportation	405	1,061	162%

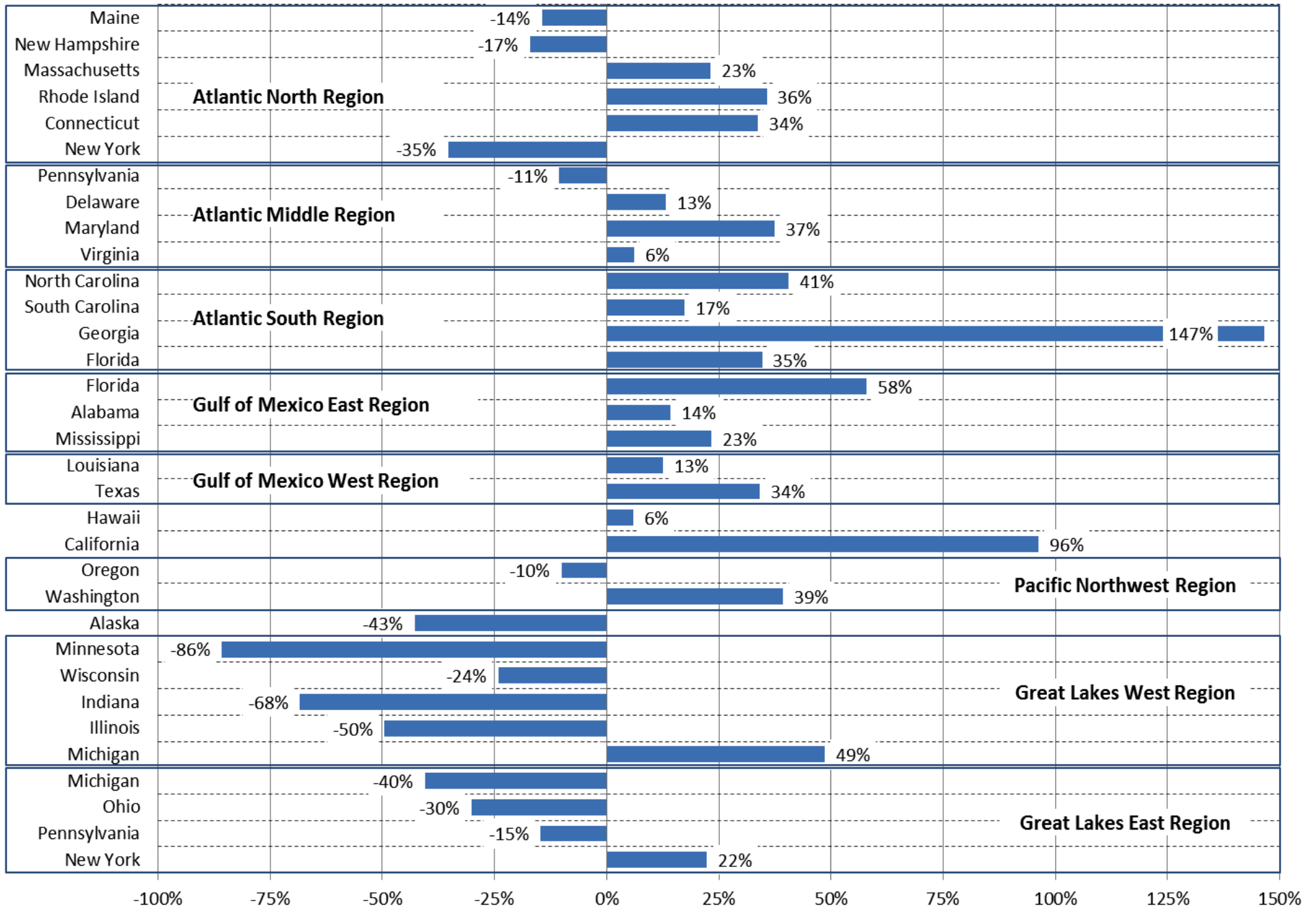


# HIGH PROFILE INDUSTRIES: MARINE CARGO SHIPPING 1997 - 2020

Year	Total Tonnage	Total Value
1997	1.2 billion tons	\$961 billion
2010	1.5 billion tons	\$1.64 billion
2020*	1.9 billion tons	\$2.63 billion

\*predicted



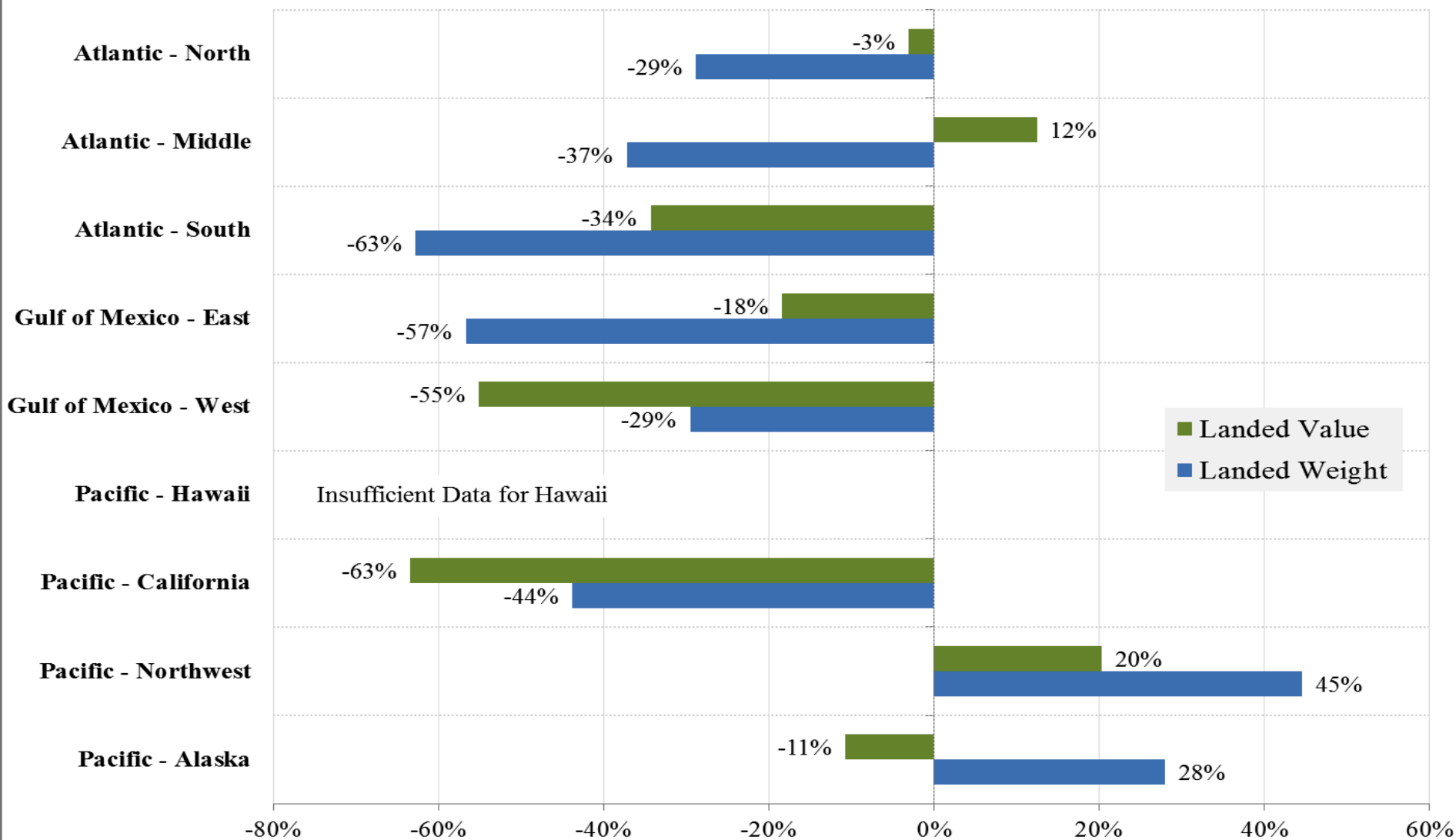


(Data Source: National Ocean Economics Program)

Percentage Change in Port Shipment Weights between 1997 and 2010



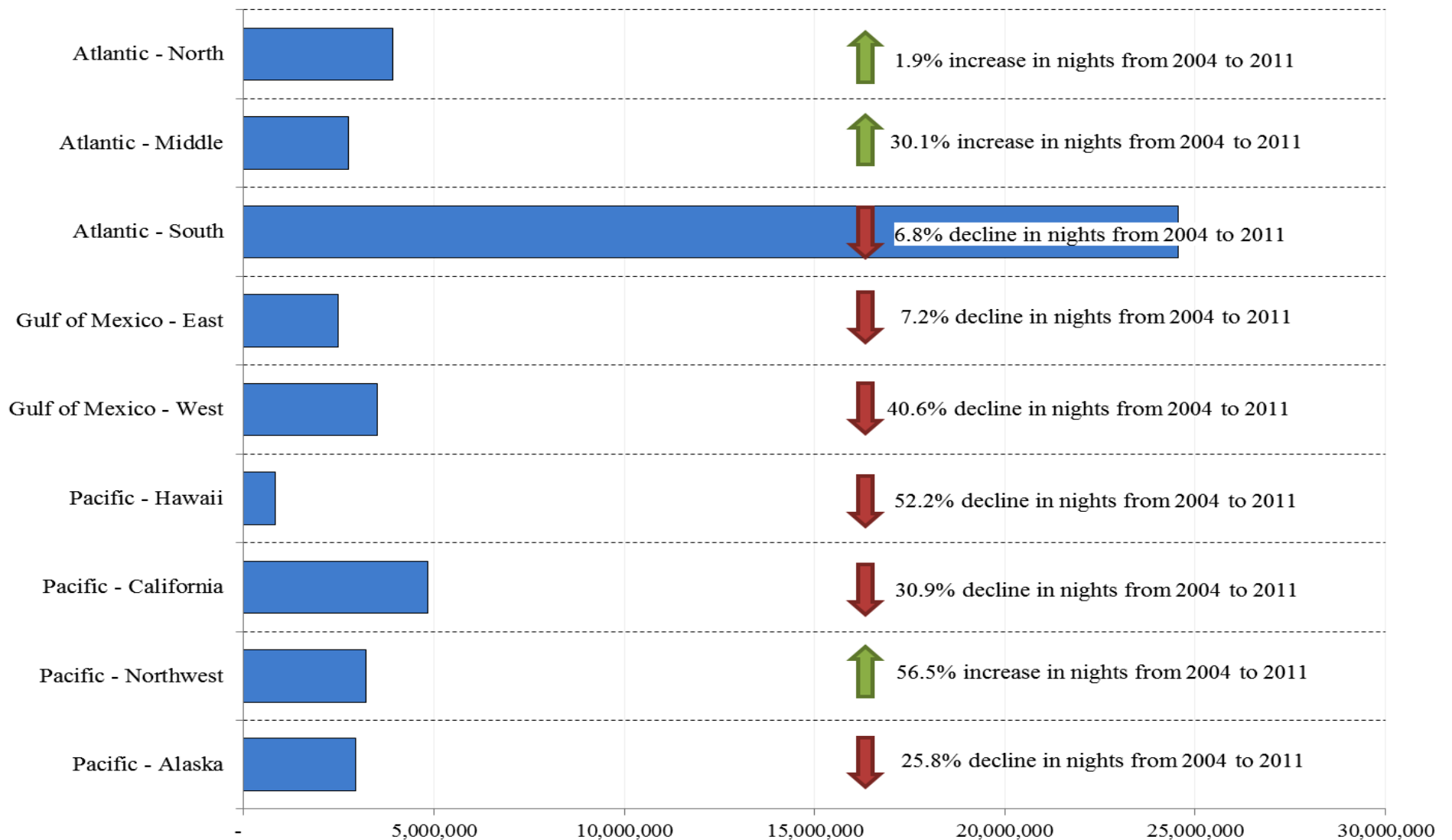
# COMMERCIAL FISHING



(Data Source: National Ocean Economics Program)

Percent Change in Landed Weight and Value - 1990 to 2010

# OCEAN-GOING CRUISE SHIPS



(Data Source: National Ocean Economics Program)

Number of cruise passenger nights in 2011 by U.S. coastal region

# DRIVERS OF CHANGE

- Fisheries Management
- Urban & rural redevelopment & revitalization
- High costs of maintaining waterfront infrastructure & dredging
- Environmental laws & regulations



# THANK YOU



Photo Credit: Steve Leukanech