

16th Lme

Meeting with
Coastal Partners

Paris (FR) 8 - 11 July 2014



Economics for Decision-Making: A tool for making economics accessible and useful to policy

Author: **Jeffery Adkins**

Institution: **NOAA, United States**

Session: **2**

Day of presentation: **9 July 2014**

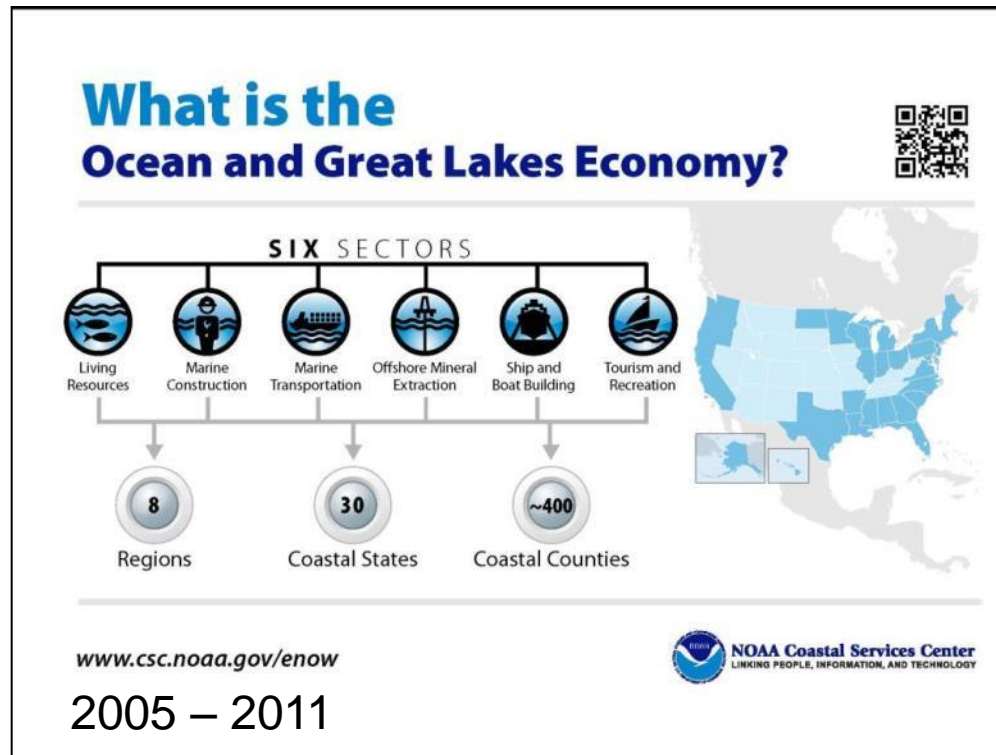


Data to Describe the Ocean Economy



Economics:

National Ocean Watch (ENOW)



ENOW's Indicators

- Business Establishments
- Jobs
- Earnings by Workers
- Gross Domestic Product



Accessing the Data

www.csc.noaa.gov/enow

See

- Ocean Jobs and Wetlands Benefits Snapshots
- National Report and Infographics



Interact

- ENOW Explorer



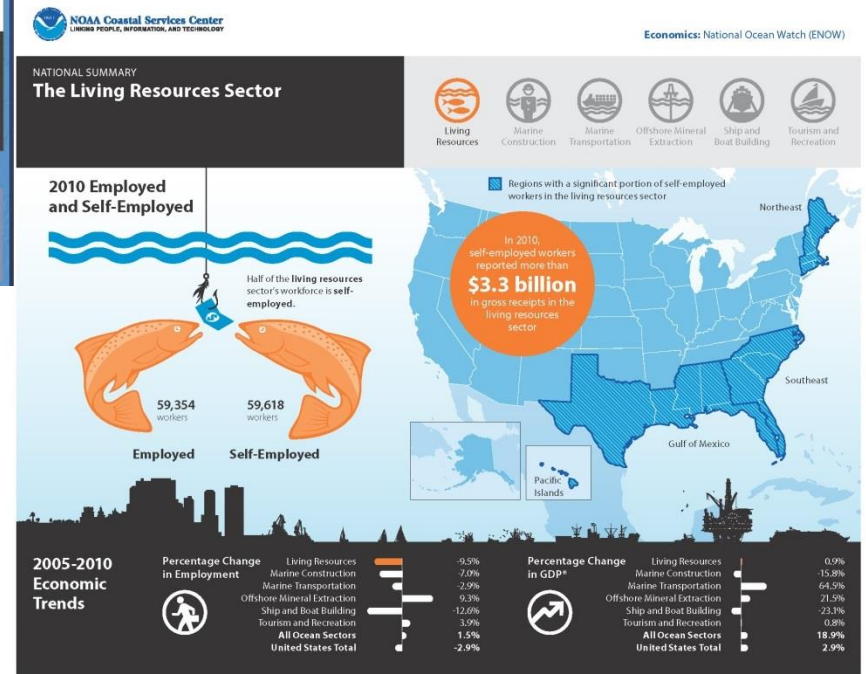
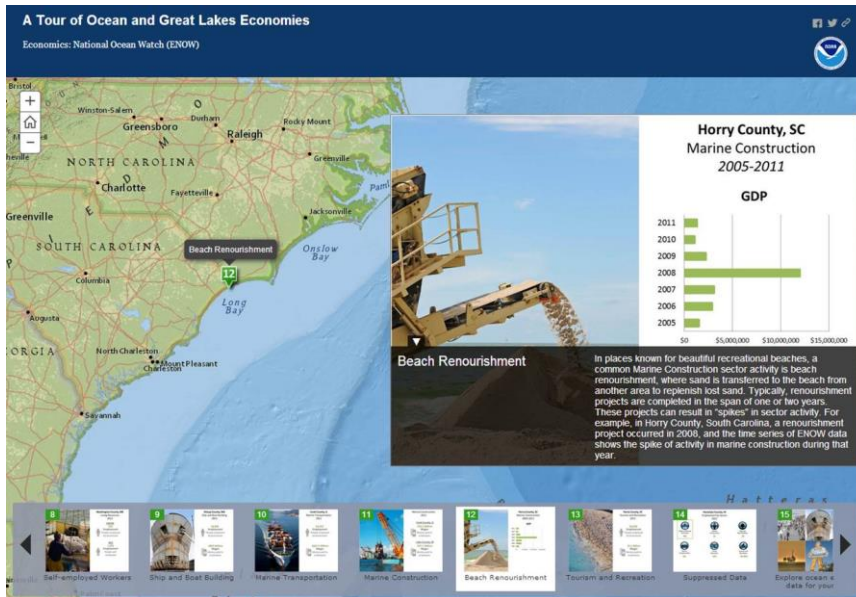
Get

- ENOW Data Wizard
- Full Tabular Download

The ENOW Data Wizard interface shows a table of data for the Living Resources Sector. The table includes columns for Year, Sector, Area, Establishments, Employment, Wages, and GDP. The data is filtered by Year (2005-2009) and Sector (Living Resources).

Year	Sector	Area	Establishments	Employment	Wages	GDP
2009	Living Resources	Orleans Parish, LA	24	45	\$806,327.00	\$1,896,889.47
2008	Living Resources	Orleans Parish, LA	6	188	\$2,768,362.00	\$4,341,209.49
2007	Living Resources	Orleans Parish, LA	92	2,879	\$154,170,321.00	\$224,241,389.68
2006	Living Resources	Orleans Parish, LA	91	4,888	\$423,115,605.00	\$7,313,759,416.26
2005	Living Resources	Orleans Parish, LA	14	52	\$4,311,887.00	\$7,313,759,416.26
2004	Living Resources	Orleans Parish, LA	670	16,411	\$108,205,949.00	\$857,737,491.48
2003	Living Resources	Orleans Parish, LA	879	20,464	\$166,415,605.00	\$5,738,413,544.32

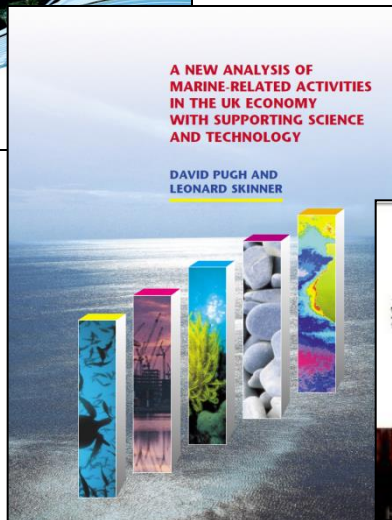
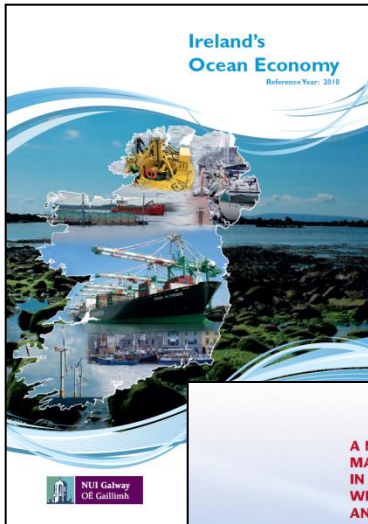
See the Data Being Used



ENOW Explorer Demonstration



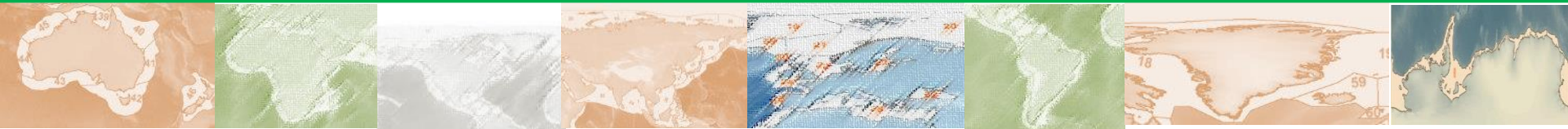
Work by Other Countries



How Are These Data Being Used?

A Few Examples:

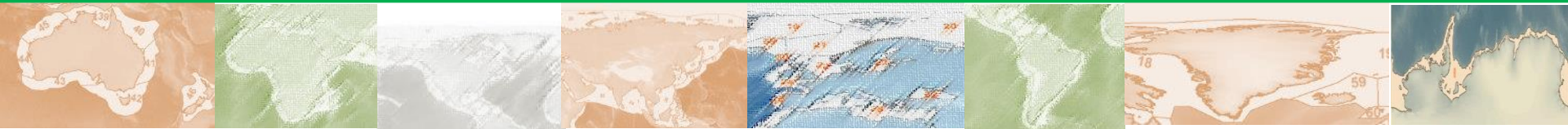
- Regional Planning, Chesapeake Bay
- Context for National Policy, White House
- Offshore Energy Siting, U.S. Department of the Interior
- Research on Value of Ecosystem Services, University of Michigan
- Revitalizing Working Waterfronts, Gloucester, Massachusetts
- Marine Spatial Planning, Washington State



Accounting for the Full Value of a Resource

What this includes:

- Things that are bought and sold (market values)
- Things that are not bought and sold (nonmarket values)



Accessing the Data

www.csc.noaa.gov/enow

For more information, see *www.csc.noaa.gov/enow*

Or contact me at *Jeffery.Adkins@noaa.gov*

ENOW Explorer Demonstration





Economics: National Ocean Watch (ENOW)

Contributing Partners: [Bureau of Economic Analysis](#) [Bureau of Labor Statistics](#) [NOAA Coastal Services Center](#)

Overview

Details

In Action

Support

Get It Now



- Data Wizard – Choose a year and geographic area for a subset of the data
- Tabular Data – Download the full data set
- API – Access data documentation and services (XML and JSON)

ENOW provides time-series data on the ocean and Great Lakes economy, which includes six economic sectors dependent on the oceans and Great Lakes. ENOW is available for counties, states, regions, and the nation in a wide variety of formats.

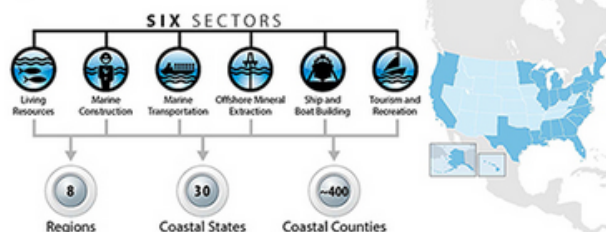
See the Data

- [County Snapshots](#) – easy-to-understand stories about your county, complete with charts and graphs; the “Ocean Jobs” and “Wetland Benefits” snapshots use ENOW data
- [Data Summary](#) – a national-level summary of the most currently released data

Interact with the Data

- [ENOW Explorer](#) – a tool using maps, charts, and graphs to show changes in the ENOW data from place to place and over time

What is the Ocean and Great Lakes Economy?



www.csc.noaa.gov/enow



Related Data

- [Economics: National Ocean Watch \(ENOW\) for Self-Employed Workers](#)
- [Gross Domestic Product](#)
- [Quarterly Census of Employment and Wages](#)
- [Spatial Trends in Coastal Socioeconomics](#)

Related Tools

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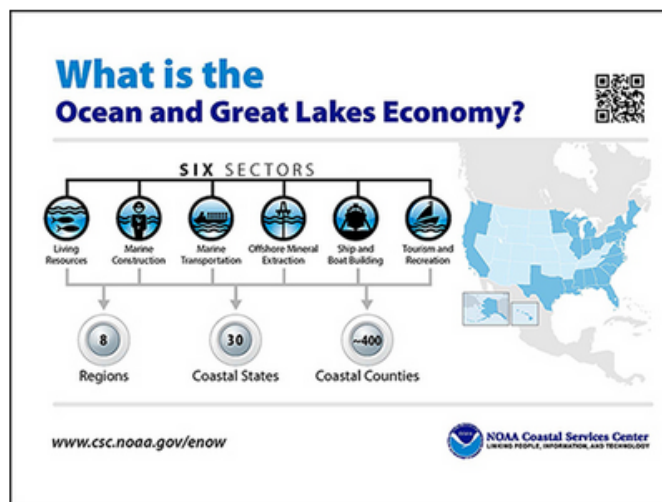
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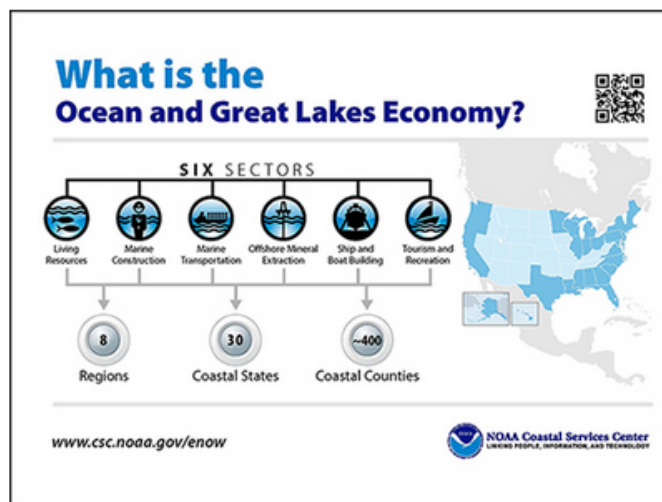
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Stories from the Field

[Developing an Economic Baseline for Recreation and Tourism on the Atlantic Coast](#)

Researchers used Economics: National Ocean Watch (ENOW) data from the Ocean Jobs Snapshot to develop baseline economic profiles for 70 East Coast communities vulnerable to tourism and recreation impacts from offshore wind facilities.

Story Maps

[A Tour of Ocean and Great Lakes Economies](#)

ENOW data are used to highlight the ocean and Great Lakes economy and showcase some quick facts about each sector.

[Ocean Sectors: Tourism and Recreation, Offshore Minerals](#)

ENOW data are used to demonstrate who employs the most people and who generates the largest economic output in the ocean and Great Lakes economy.

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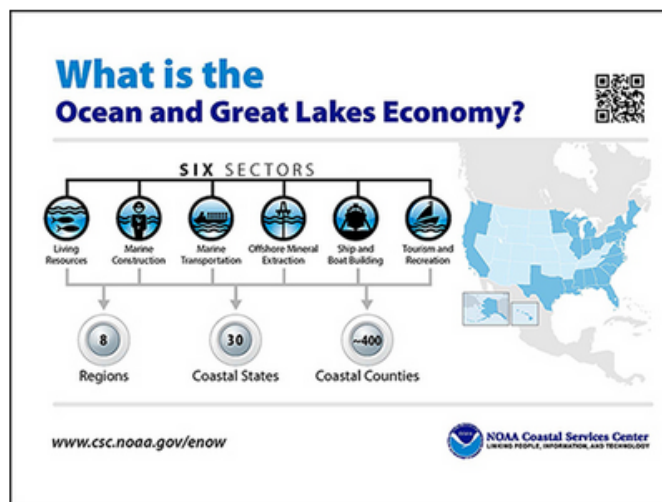
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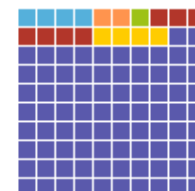
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Select Region

Coastal U.S.

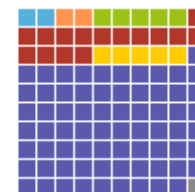
Establishments

147,247



Employment

2.8 Million



Wages

\$107.5 Billion



GDP

\$282.2 Billion



Indicators

Sectors

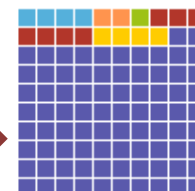
- ☒ All Ocean Sectors
 ☐ Living Resources
 ☐ Marine Construction
 ☐ Ship and Boat Building
 ☐ Marine Transportation
 ☐ Offshore Mineral Extraction
 ☐ Tourism and Recreation

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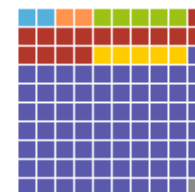
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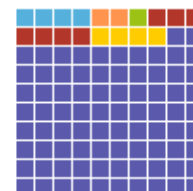
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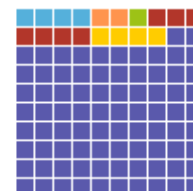
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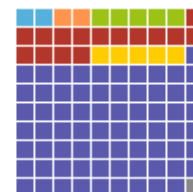
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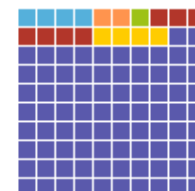
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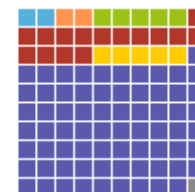
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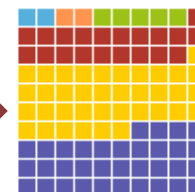
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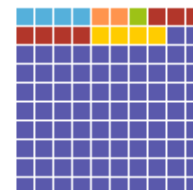
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[Select Region](#)

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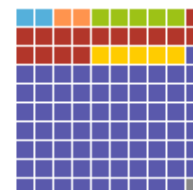
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Indicators

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ENOW Explorer

NOAA Co

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Compare

Single Year

2005

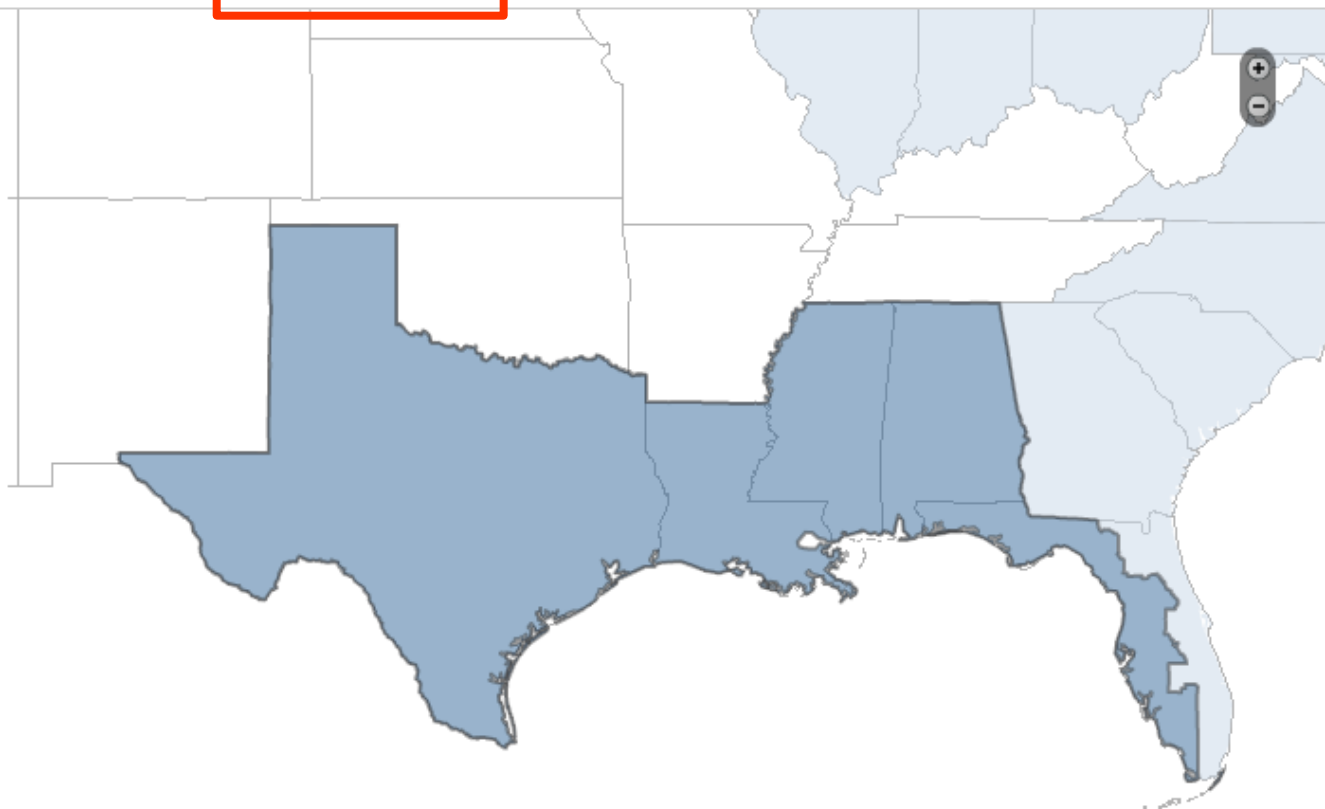
Indicators

Sectors

Gulf of Mexico

[Select State]

[Select County]



Hawaii

Alaska



Lower 48

View Data

Close

All Ocean Sectors

Living Resources

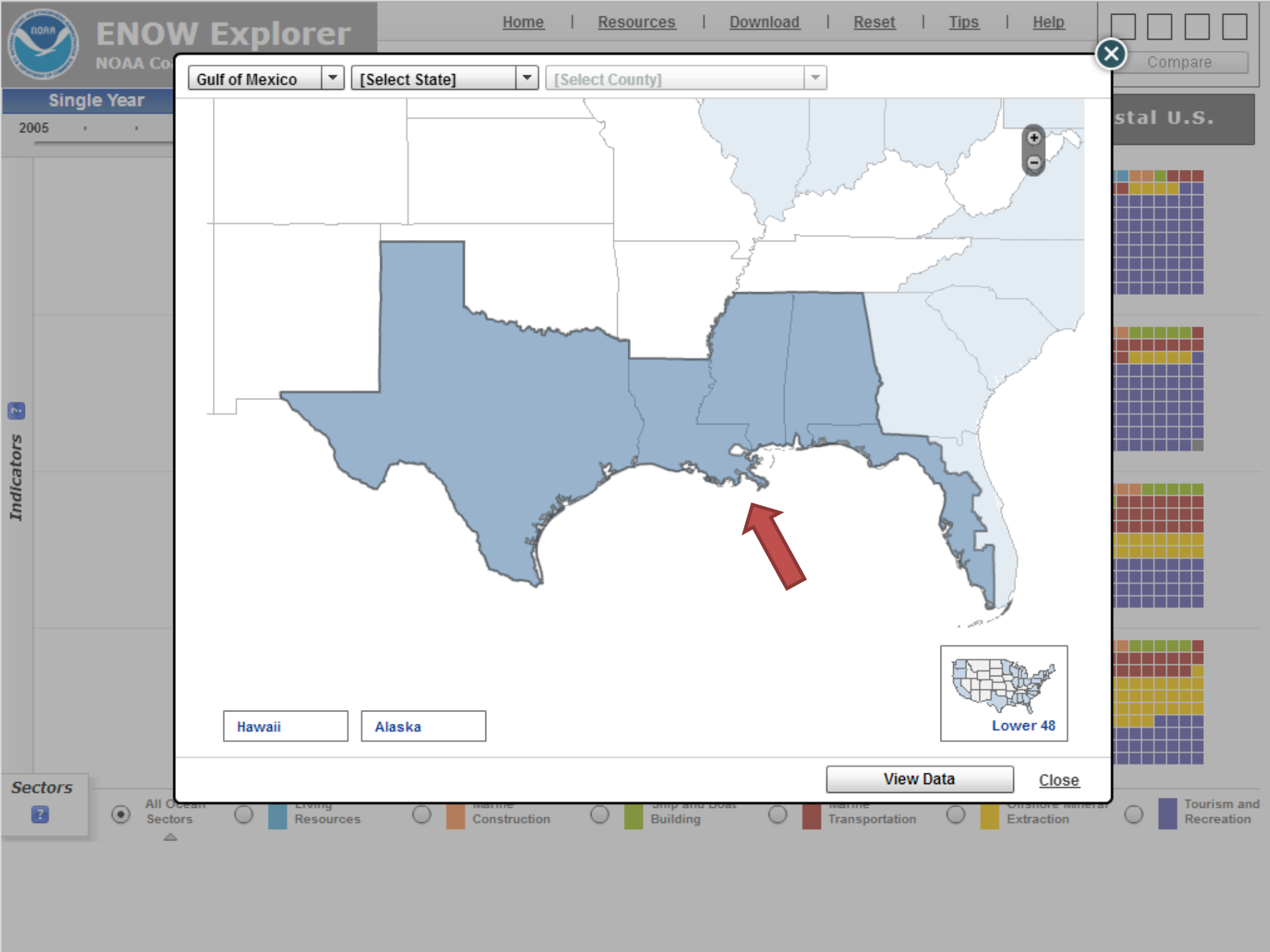
Marine Construction

Ship and Boat Building

Marine Transportation

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Tourism and Recreation





ENOW Explorer

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Compare

Single Year

Change

2005

2011

Plaquemines Parish,
LA

Louisiana

Gulf of Mexico

Coastal U.S.

[Compare](#)

[Clear](#)

[Compare](#)

[Clear](#)

[Compare](#)

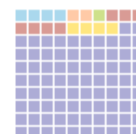
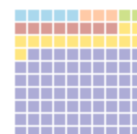
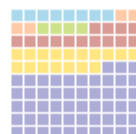
[Clear](#)

Establishments

177



[Map It](#)

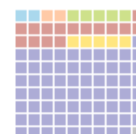
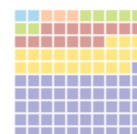
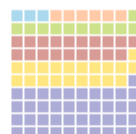
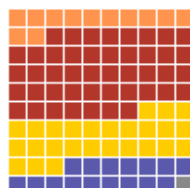


Employment

2,544



[Map It](#)

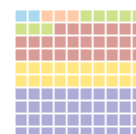
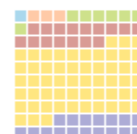
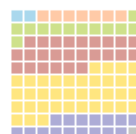
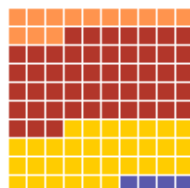


Wages

\$140.0 Million



[Map It](#)

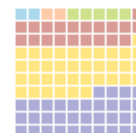
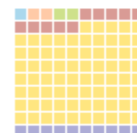
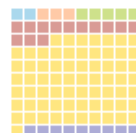
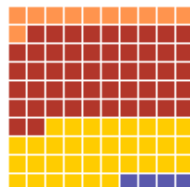


GDP

\$278.9 Million



[Map It](#)



Indicators

Sectors



☒ All Ocean Sectors

☐ Living Resources

☐ Marine Construction

☐ Ship and Boat Building

☐ Marine Transportation

☐ Offshore Mineral Extraction

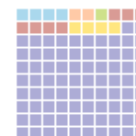
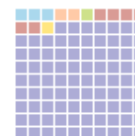
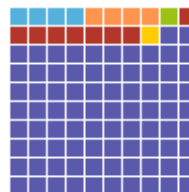
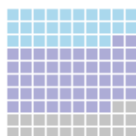
☐ Tourism and Recreation

[Compare](#)**Single Year****Change**

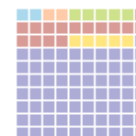
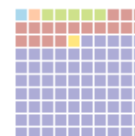
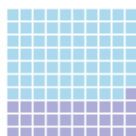
2005 2011

Northumberland County,
VA**Virginia****Mid-Atlantic****Coastal U.S.**[Compare](#)[Clear](#)[Compare](#)[Clear](#)[Compare](#)[Clear](#)**Establishments**

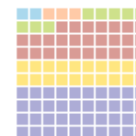
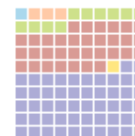
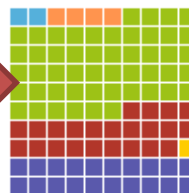
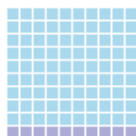
4,337

[Map It](#)**Employment**

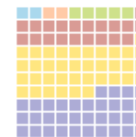
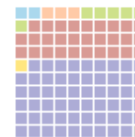
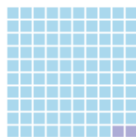
118,657

[Map It](#)**Wages**

\$4.5 Billion

[Map It](#)**GDP**

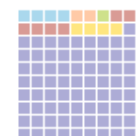
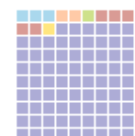
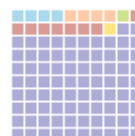
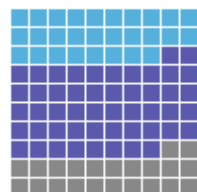
\$7.4 Billion

[Map It](#)**Sectors**All Ocean
SectorsLiving
ResourcesMarine
ConstructionShip and Boat
BuildingMarine
TransportationOffshore Mineral
ExtractionTourism and
Recreation

[Compare](#)**Single Year****Change**

2005

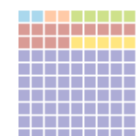
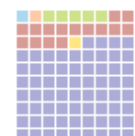
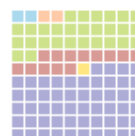
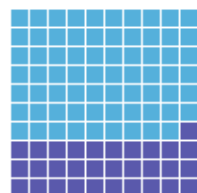
2011

**Northumberland County,
VA****Virginia****Mid-Atlantic****Coastal U.S.**[Compare](#)[Clear](#)[Compare](#)[Clear](#)[Compare](#)[Clear](#)**Establishments**

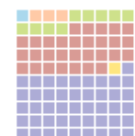
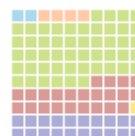
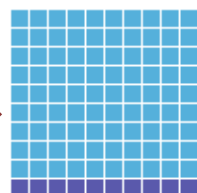
58

[Map It](#)**Employment**

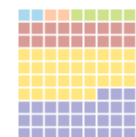
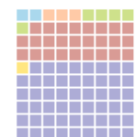
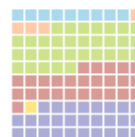
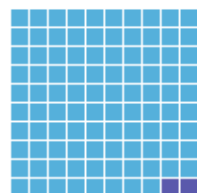
525

[Map It](#)**Wages**

\$18.8 Million

[Map It](#)**GDP**

\$173.6 Million

[Map It](#)**Sectors**All Ocean
SectorsLiving
ResourcesMarine
ConstructionShip and Boat
BuildingMarine
TransportationOffshore Mineral
ExtractionTourism and
Recreation



ENOW Explorer

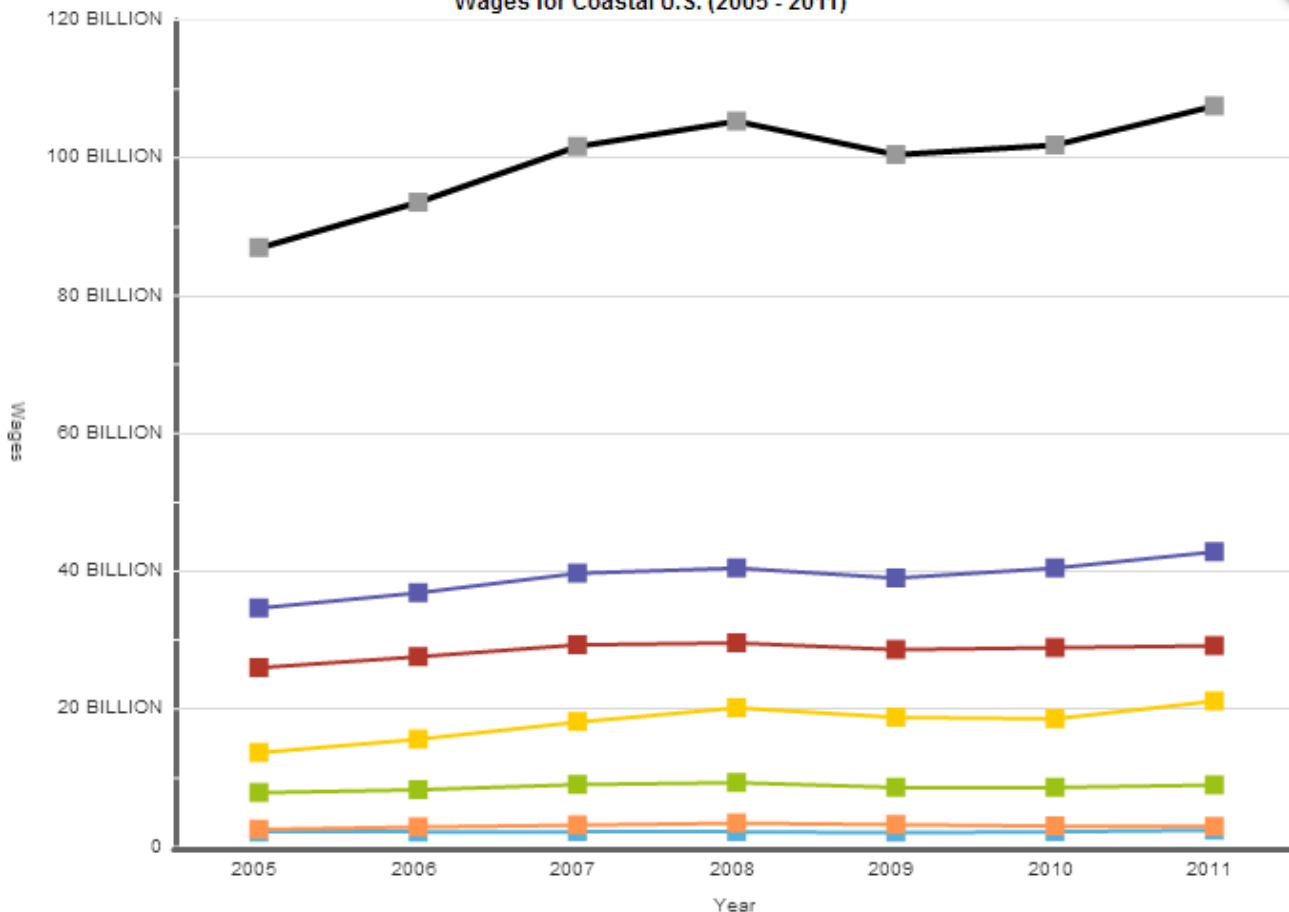
NOAA Coastal Services Center

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2005 2011

[Select Region](#)**Coastal U.S.****Establishments**[Chart It](#)**Employment**[Chart It](#)**Wages**[Chart It](#)**GDP**[Chart It](#)**Indicators****Sectors**☒ All Ocean Sectors☐ Living Resources☐ Marine Construction☐ Ship and Boat Building☐ Marine Transportation☐ Offshore Mineral Extraction☐ Tourism and Recreation

Wages for Coastal U.S. (2005 - 2011)





Single Year

Change

2005 2011

[Select Region](#)

Coastal U.S.

Establishments



[Chart It](#)

Employment



[Chart It](#)

Wages



[Chart It](#)

GDP



[Chart It](#)

Indicators

Sectors



☒ All Ocean Sectors

☐ Living Resources

☐ Marine Construction

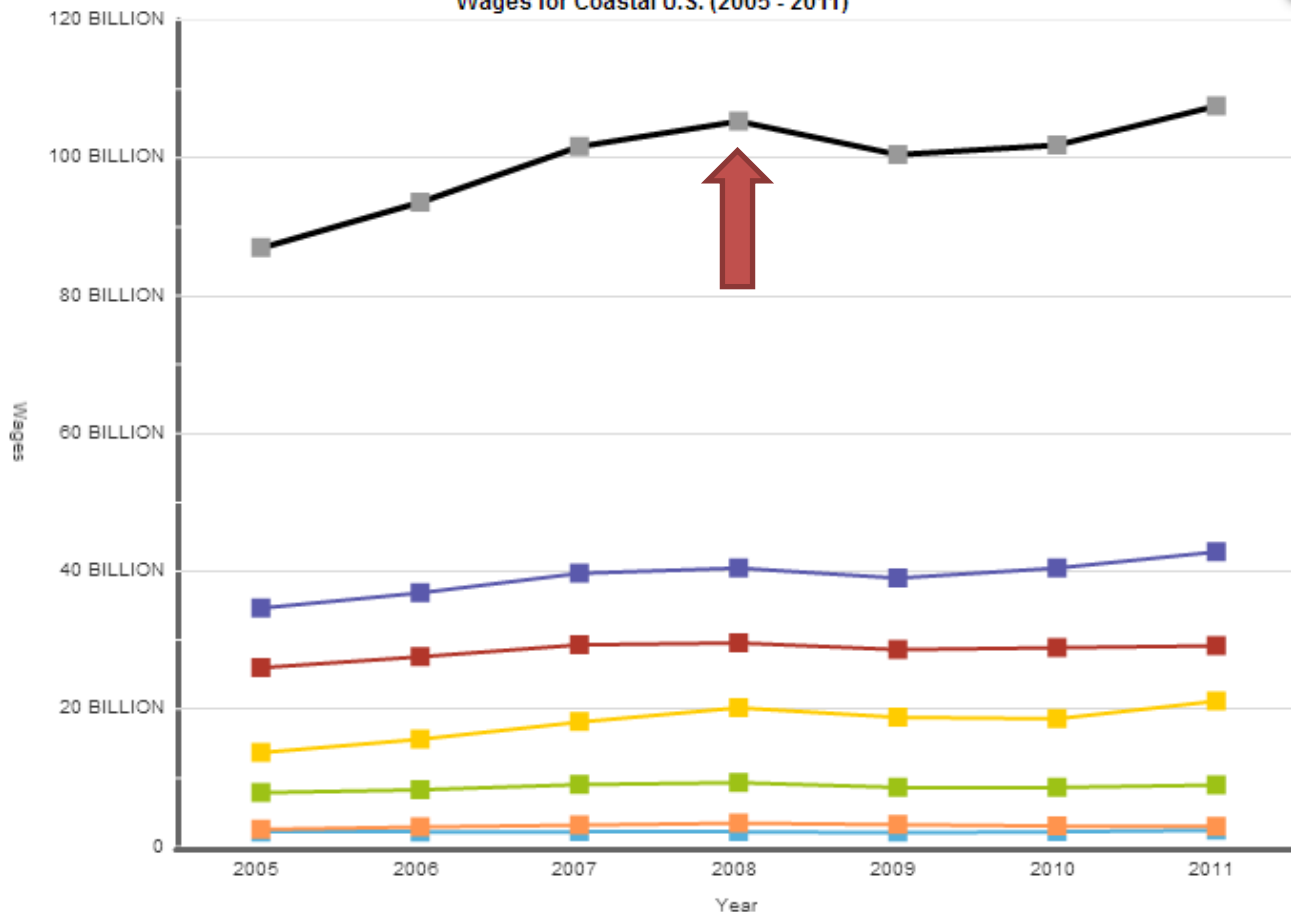
☐ Ship and Boat Building

☐ Marine Transportation

☐ Offshore Mineral Extraction

☐ Tourism and Recreation

Wages for Coastal U.S. (2005 - 2011)





Single Year

Change

2005 2011

[Select Region](#)

Coastal U.S.

Establishments



[Chart It](#)

Employment



[Chart It](#)

Wages



[Chart It](#)

GDP



[Chart It](#)

Indicators

Sectors



☒ All Ocean Sectors

☐ Living Resources

☐ Marine Construction

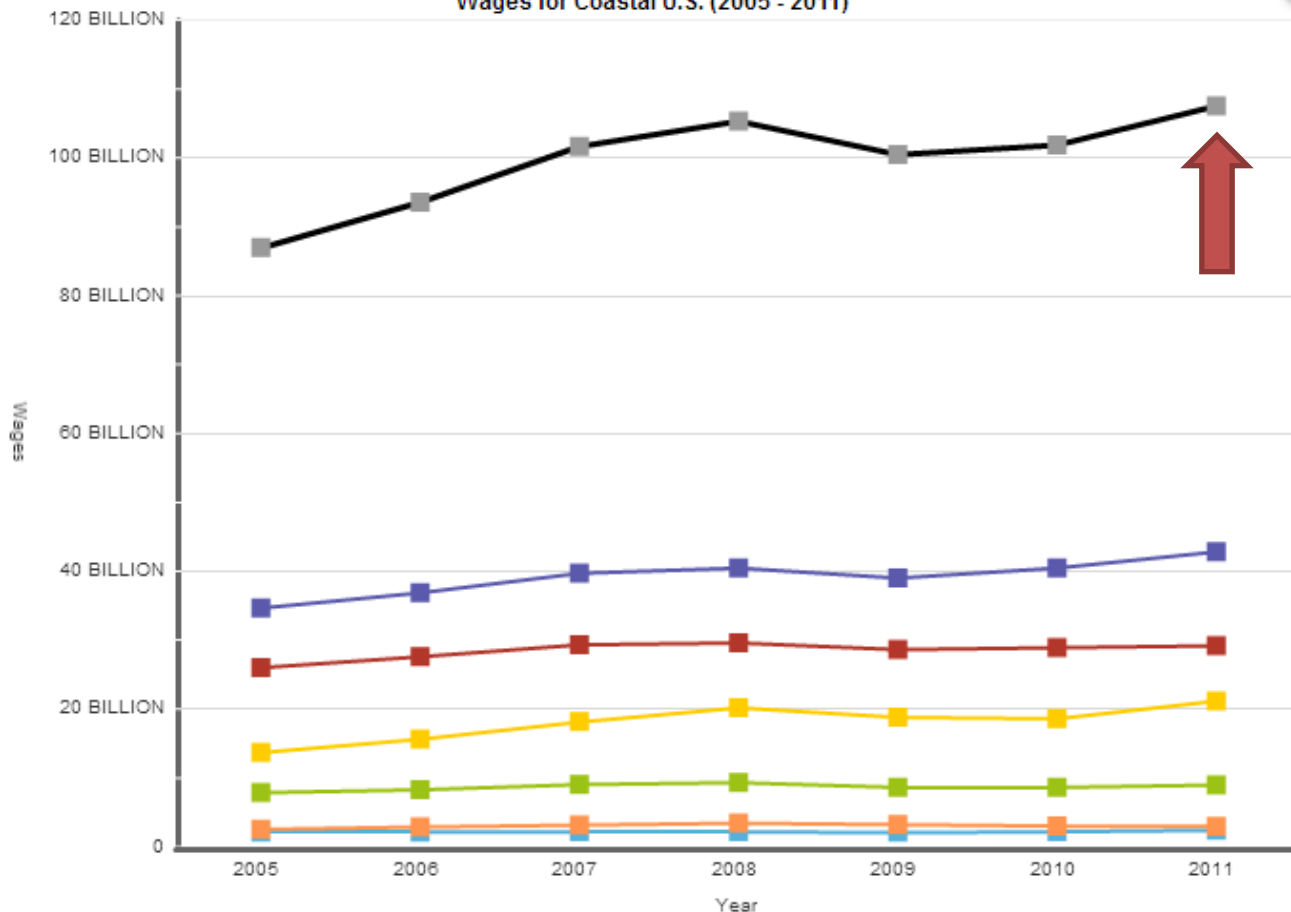
☐ Ship and Boat Building

☐ Marine Transportation

☐ Offshore Mineral Extraction

☐ Tourism and Recreation

Wages for Coastal U.S. (2005 - 2011)



Back to Presentation

Ocean and Great Lakes Economy Sectors and Industries by NAICS Codes			
Sector	Industry	NAICS Code	NAICS Industry (2012 NAICS)
Living Resources	Fish Hatcheries and Aquaculture	112511	Finfish Farming and Fish Hatcheries
		112512	Shellfish Farming
		112519	Other Aquaculture
	Fishing	114111	Finfish Fishing
		114112	Shellfish Fishing
		114119	Other Marine Fishing
	Seafood Processing	311711	Seafood Canning
		311712	Fresh and Frozen Seafood Processing
	Seafood Markets	445220	Fish and Seafood Markets
Marine Construction	Marine Related Construction	237990	Other Heavy and Civil Engineering Construction
Marine Transportation	Deep Sea Freight	483111	Deep Sea Freight Transportation
		483113	Coastal and Great Lakes Freight Transportation
	Marine Passenger Transportation	483112	Deep Sea Passenger Transportation
		483114	Coastal and Great Lakes Passenger Transportation
	Marine Transportation Services	488310	Port and Harbor Operations
		488320	Marine Cargo Handling
		488330	Navigational Services to Shipping
		488390	Other Support Activities for Water Transportation
	Search and Navigation Equipment	334511	Search, Detection, Navigation, Guidance, Aeronautical and Nautical System and Instrument Manufacturing
	Warehousing ¹	493110	General Warehousing and Storage
		493120	Refrigerated Warehousing and Storage
		493130	Farm Product Warehousing and Storage

Ocean and Great Lakes Economy Sectors and Industries by NAICS Codes			
Sector	Industry	NAICS Code	NAICS Industry (2012 NAICS)
Offshore Mineral Resources	Limestone, Sand and Gravel	212321	Construction Sand and Gravel Mining
		212322	Industrial Sand Mining
	Oil and Gas Exploration and Production	211111	Crude Petroleum and Natural Gas Extraction
		211112	Natural Gas Liquid Extraction
		213111	Drilling Oil and Gas Wells
		213112	Support Activities for Oil and Gas Operations
		541360	Geophysical Exploration and Mapping Services
Ship and Boat Building	Boat Building and Repair	336612	Boat Building and Repair
	Ship Building and Repair	336611	Ship Building and Repair
Tourism and Recreation	Boat Dealers	441222	Boat Dealers
	Eating and Drinking Places	722511	Full Service Restaurants
		722513	Limited Service Eating Places
		722514	Cafeterias
		722515	Snack and Nonalcoholic Beverage Bars
	Hotels and Lodging	721110	Hotels (except Casino Hotels) and Motels
		721191	Bed and Breakfast Inns
	Marinas	713930	Marinas
	Recreational Vehicle Parks and Campsites	721211	RV Parks and Recreational Camps
	Scenic Water Tours	487210	Scenic and Sightseeing Transportation, Water
	Sporting Goods	339920	Sporting and Athletic Goods Manufacturing
	Amusement and Recreation Services	487990	Scenic and Sightseeing Transportation, Other
		611620	Sports and Recreation Instruction
		532292	Recreation Goods Rental
		713990	Amusement and Recreation Services Not Elsewhere Classified
	Zoos and Aquaria	712130	Zoo and Botanical Gardens
		712190	Nature Parks and Other Similar Institutions