



CANADA'S INITIAL BIENNIAL REPORT CARD ON THE ECONOMIC VALUE OF MARINE RELATED ACTIVITIES – YEAR 2006

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Overview



1. History of the Economics of Ocean Industries in Canada.
2. New Methodological Approach
3. The Peer Review Process
4. Study Results
5. Weaknesses in the Data

History



- Improve Understanding of Marine Related Industries.
- About 16 Studies Completed.
- Huge Methodological Differences.
- Gislason Study Commissioned

Methodology



1. Most Data originated from Statistics Canada or are Consistent with their Definitions [NAICS].
2. Industry Descriptions Prepared for each Sub-Sector and Affiliates.
3. Data Peculiarities, Assumptions, and Calculations Carefully Detailed and Explained.
4. Impacts Measured Using Three Primary Indicators: Gross Domestic Product; Labour Income; Employment.

Methodology



5. Impacts Described Through: Direct; Indirect; and Induced Demands.
6. Impacts Presented as a National Total and Proportioned for: Atlantic, Pacific, and Arctic Activity Areas.
7. Final Draft Underwent a Paragraph-by-Paragraph Peer Review.

Sub-Sectors



Primary Sub-Sectors	Including
1. Seafood	Fishing, Aquaculture, Processing, Subsistence Fishing.
2. Offshore Oil and Gas	Exploration, Extraction, Support Services, Refineries, Pipeline Transportation
3. Marine Transportation	Freight Transportation, Passenger Transportation, Support Services
4. Marine Tourism	Recreational Fishing, Cruise Ship Travel, Coastal Tourism and Recreation
5. Marine Manufacturing and Construction	Oil and Gas Facilities Installations, Ports-Harbours-Marine Works, Navigation and Guidance Equipment, Ship and Boat Building, High Tech Equipment and Services

Sub-Sectors



Primary Sub-Sectors	Including
6. Federal Government	Nine Departments and Agencies
7. Provincial Governments	Three Departments and Agencies
8. Universities and Research	Selected Universities and Colleges
9. Environmental Non-Government Organizations	Selected Organizations

Peer Review



- Very Important Step in the Process.
- Four International and Three National Experts + About Ten from the Project Steering Group.
- Two Day Forum.
- Challenges Undertaken Paragraph-by-Paragraph.
- Significant Added Value.

Study Results



		Ocean Sector Impact	Canadian Total	Ocean as a % of Total
GDP (\$ Billions)	Direct	17.7		1.2%
	Direct plus spin-off	27.7		1.9%
			1,450	
Employment (FTE)	Direct	171,365		1.1%
	Direct plus spin-off	316,119		2.0%
			16,021,180	

Study Results



		Ocean Sector Impact	Canadian Total	Ocean as a % of Total
Labour Income (\$Billions)	Direct	7.7		1.0%
	Direct plus spin-off	13.7		1.8%
			743	

Study Results



Primary Sub-Sectors	GDP Direct plus spin-off (\$000s)
1. Seafood	3,884,179
2. Offshore Oil and Gas	9,289,130
3. Marine Transportation	5,519,052
4. Marine Tourism	4,208,770
5. Marine Manufacturing and Construction	1,244,786
6. Federal Government	3,207,507
7. Provincial Government	128,400
8. Universities and Research	117,570
9. eNGOs	53,886
Total	27,653,282

Data Weaknesses



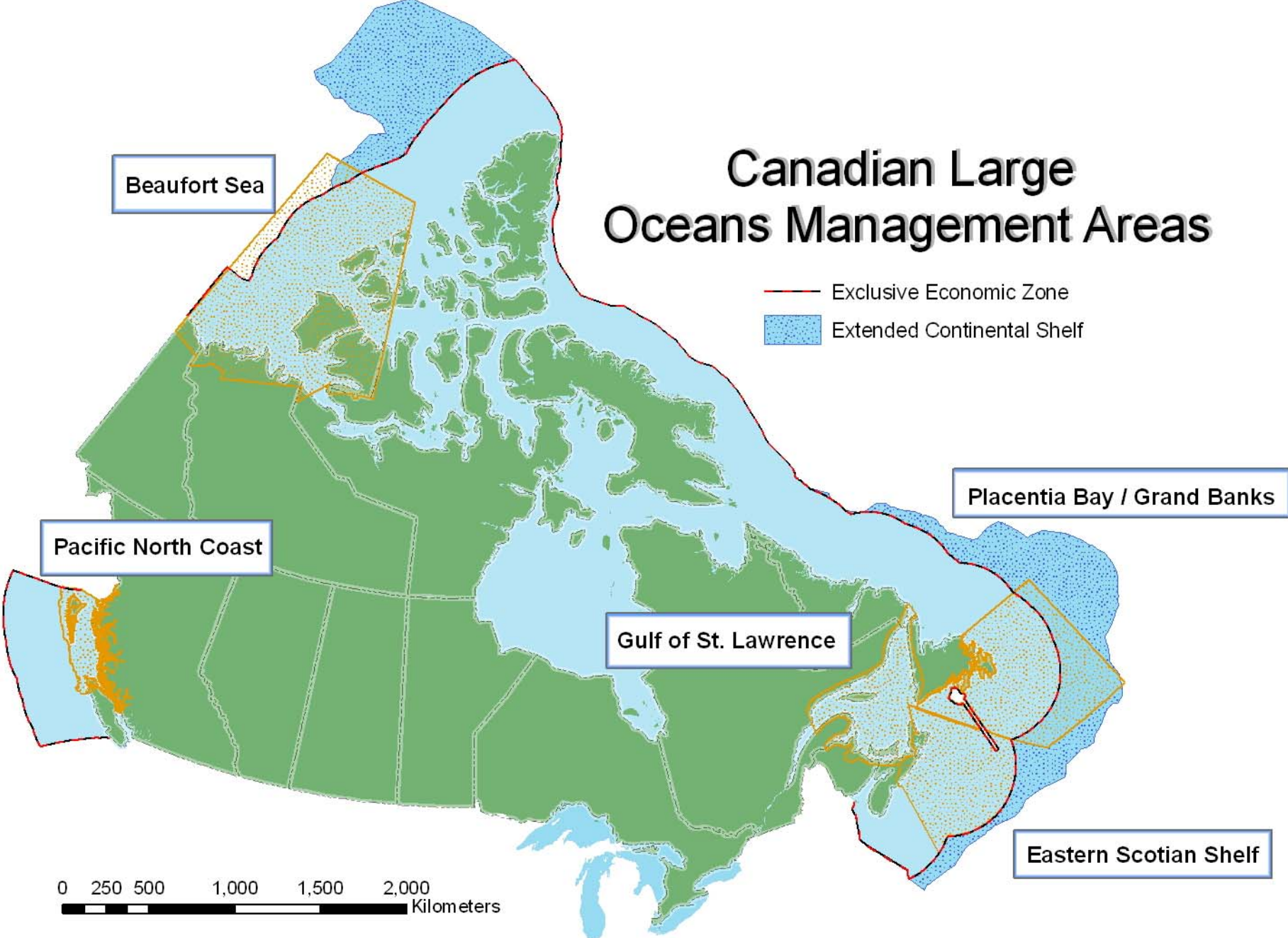
Primary Sub-Sectors	Data Completeness
1. Seafood	<u>Good</u> – No official data on FTEs.
2. Offshore Oil and Gas	<u>Underestimated</u> – Confidentiality of data.
3. Marine Transportation	<u>Significantly Underestimated</u> – No ‘Own Account’ Shipping.
4. Marine Tourism	<u>Underestimated</u> – ‘Non-residents’ not included in travel survey data. Definition rather ‘fuzzy’.
5. Marine Manufacturing and Construction	<u>Significantly Underestimated</u> – High Tech, Navigational Equipment, Professional Services excluded. Capital construction spending at private facilities excluded.

Data Weaknesses



Primary Sub-Sectors	Data Completeness
6. Federal Government	<u>Fair</u> – Not all National Defence activities included.
7. Provincial Governments	<u>Fair</u> – Not all activities included.
8. Universities and Research	<u>Underestimated</u> – Not all Universities, Colleges, Institutions included.
9. Environmental Non-Government Organizations	<u>Fair</u> – Not all Organizations included.

Canadian Large Oceans Management Areas



**Thank
You**



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