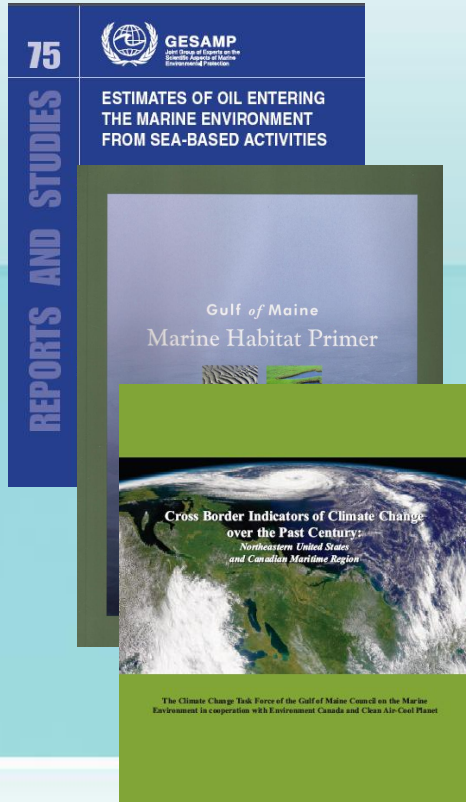


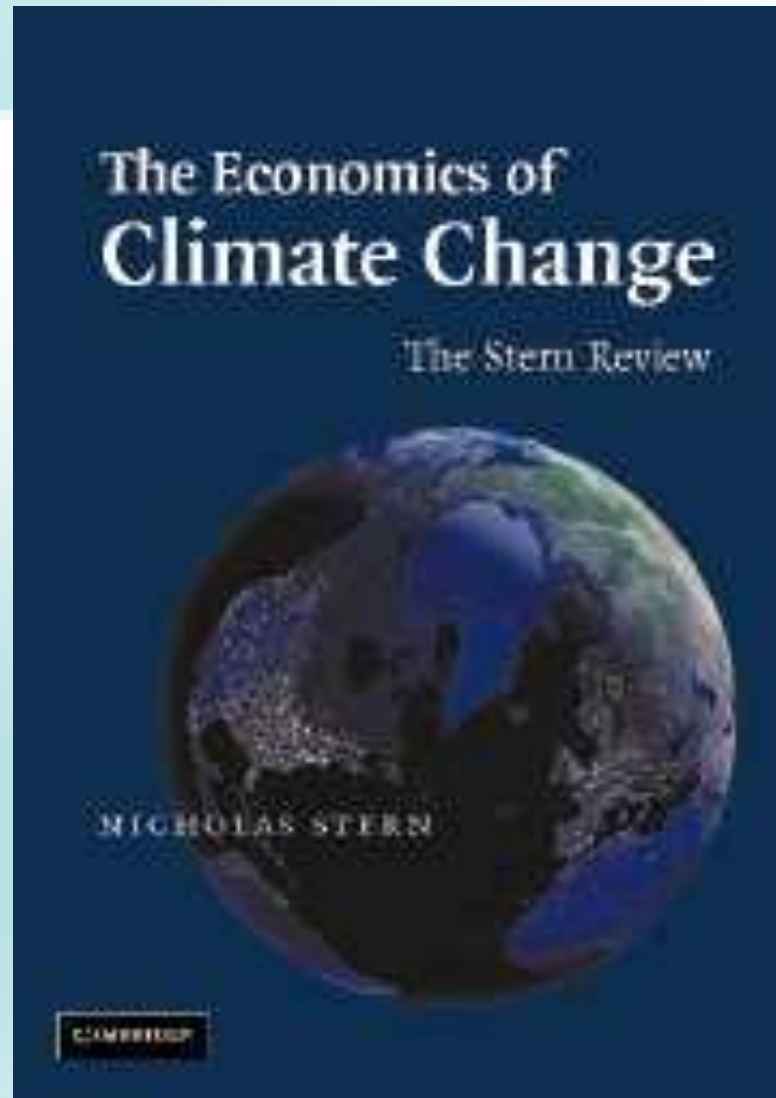
Bertrum H. MacDonald
Dalhousie University



From Science to Decision Making: The Track Record of “Grey” Environmental Publications

Faculty of Information Studies Colloquium
University of Toronto
15th November 2007

***The Economics of
Climate Change:
The Stern Review
(October 2006)***





HM TREASURY



Stern Review on the economics of climate change

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- [Economic data & tools](#)
- [Consultation & legislation](#)

Independent reviews

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- [Enterprise & productivity](#)
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- [International issues](#)
- [Public private partnerships](#)
- [Public spending & reporting](#)
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- [UK economy](#)

- [Budget](#)
- [Pre-Budget Report](#)
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HM TREASURY

CabinetOffice

Stern Review on the Economics of Climate Change

Sir Nicholas Stern, Head of the Government Economic Service and Adviser to the Government on the economics of climate change and development, is delighted to present his report to the Prime Minister and the Chancellor of the Exchequer on the Economics of Climate Change:

Full report

[Executive Summary](#) and [Executive Summary in other languages](#)
[Postscript](#) and [Technical Annex to postscript](#)

Launch [Press notice](#), [comments on the Review](#), [launch presentation](#) and [speaking notes](#)
[Supporting commissioned research](#)
[Background to the Review](#)
[Presentations by Sir Nicholas Stern](#)

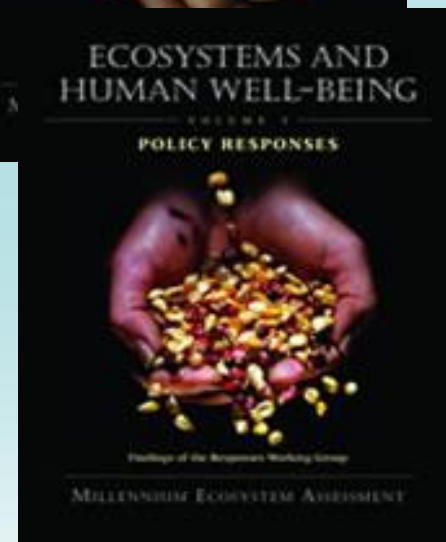
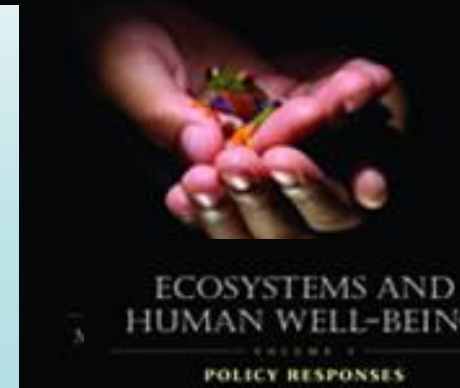
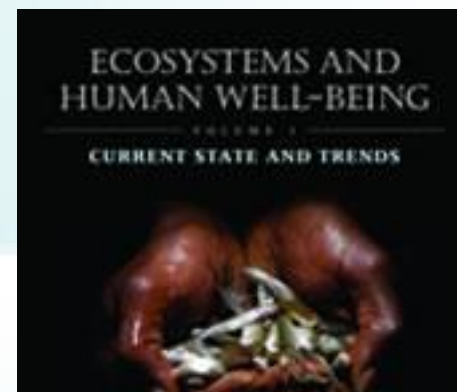
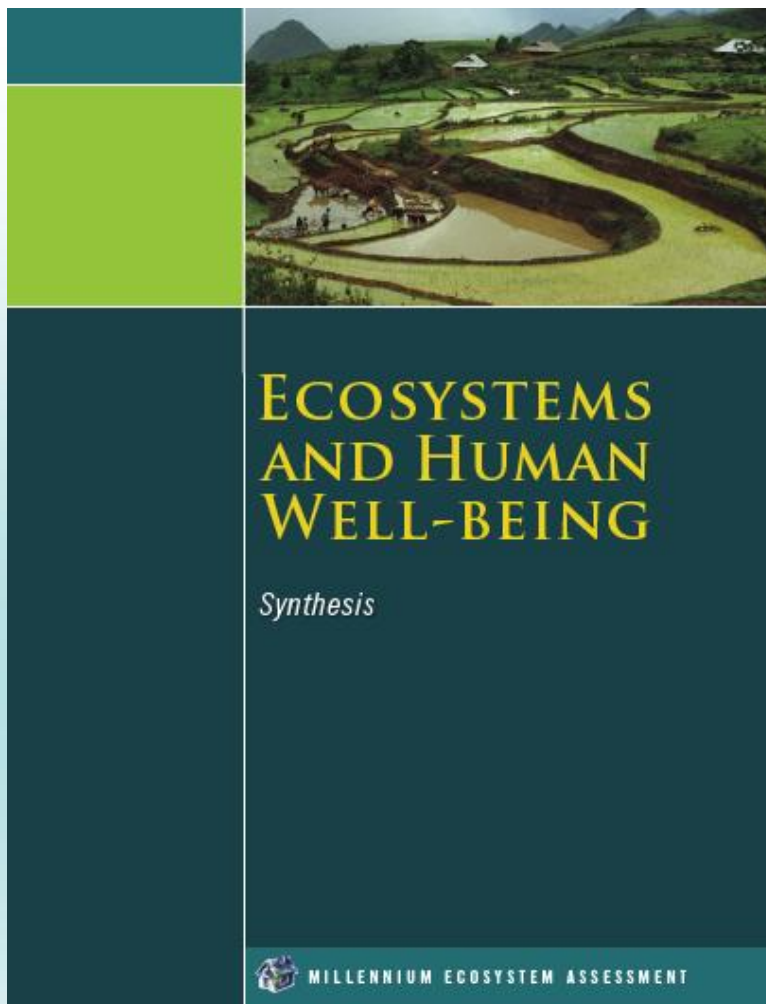
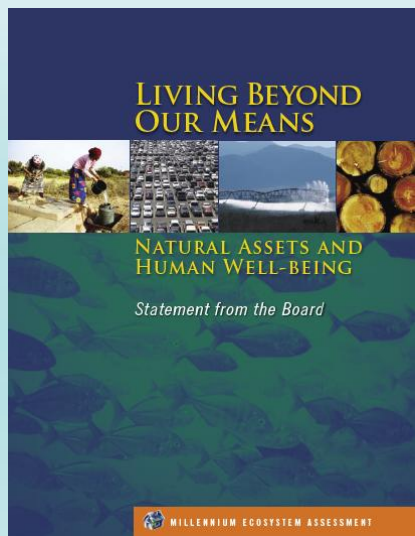
Following the release of the Review - additional papers

Some additional papers have been written since the release of the Review
[Additional papers](#)

Some of the above documents are available in Adobe Acrobat Portable Document Format (PDF).
If you do not have Adobe Acrobat installed on your computer you can download the software free



MILLENNIUM ECOSYSTEM ASSESSMENT



Guiding Questions

- What have the agencies published, where and how?
- What methods will show regarding the distribution and use of their publications?
- What other approaches can be deployed to demonstrate the use and influence of their publications?
- What fundamental principles regarding the dissemination of grey literature from similar organizations are emerging from this study?

Ultimately

Are the oceans and the Gulf of Maine better off environmentally from all this publication effort?

Grey Literature is...

that which is produced at all levels of government, academics, business and industry in print and electronic formats, but which is not controlled by commercial publishers

✧ *Fourth International Conference on Grey Literature, 1999*

not readily available through normal book selling channels, and therefore difficult to identify and obtain

✧ *C. P. Auger, 1998, Information Sources in Grey Literature, p. 3*

Grey Literature Spectrum*

White Commercially published books and journals

Light grey Theses, standards, patents
Technical reports in numbered series
Electronic documents on the Internet
Government documents

Medium grey Corporate annual reports, directories
Product information, catalogues
Newsletters, conference proceedings, pre-prints
Consultants' reports, bibliographies

Dark grey Brochures, non-commercial translations
Background documents, drafts of technical reports

Black Internal documents of organizations, other inaccessible items



GESAMP

Joint Group of Experts on the
Scientific Aspects of Marine
Environmental Protection

Science for Sustainable Oceans



GESAMP – What is it?

***IMO / FAO / UNESCO-IOC / WMO / WHO / IAEA / UN /
UNEP Joint Group of Experts on the Scientific Aspects of
Marine Environmental Protection***

- active since 1969
- committee of volunteer scientific experts
 - ✗ working groups address specific questions
- internal and external peer review of reports
- gives advice on marine environmental protection
 - ✗ to the UN agencies, and through them, to member governments
 - ✗ to scientists, managers, other organizations



Administrative Secretary

Technical Secretaries of the Sponsoring Agencies

Mr. René Coenen

IMO Technical Secretary of GESAMP
International Maritime Organization
4 Albert Embankment
London SE1 7SR
United Kingdom

Mr. Uwe Barg

FAO Technical Secretary of GESAMP
Food and Agriculture Organization of the
United Nations
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00100 Rome
Italy

Mr. Julian Barbière

UNESCO-IOC Technical Secretary of GESAMP
Intergovernmental Oceanographic Commission
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Mr. Slobodan Nickovic

WMO Technical Secretary of GESAMP
World Meteorological Organization
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CH-1211 Geneva 20
Switzerland

Mr. Chika Ukwé

UNIDO Technical Secretary of GESAMP
Industrial Development Officer
(International Waters)
United Nations Industrial Development
Organization
Vienna International Centre
PTC IPEM Branch, P.O. Box 300
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Austria A-1400

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International Atomic Energy Agency
Marine Environment Laboratory
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Ms. Alice Hicuburundi

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United Nations
Division for Ocean Affairs and the Law of
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New York, NY 10017 U.S.A.

Mr. Salif Diop

UNEP Technical Secretary of GESAMP
Head, Ecosystems Section and Water Unit
Division of Early Warning and Assessment
(DEWA)
UNEP
P.O. Box 30552
Nairobi
00100 Kenya

Mr. Miguel Palomares

International Maritime Organization
4 Albert Embankment
London SE1 7SR
United Kingdom

GESAMP Officer

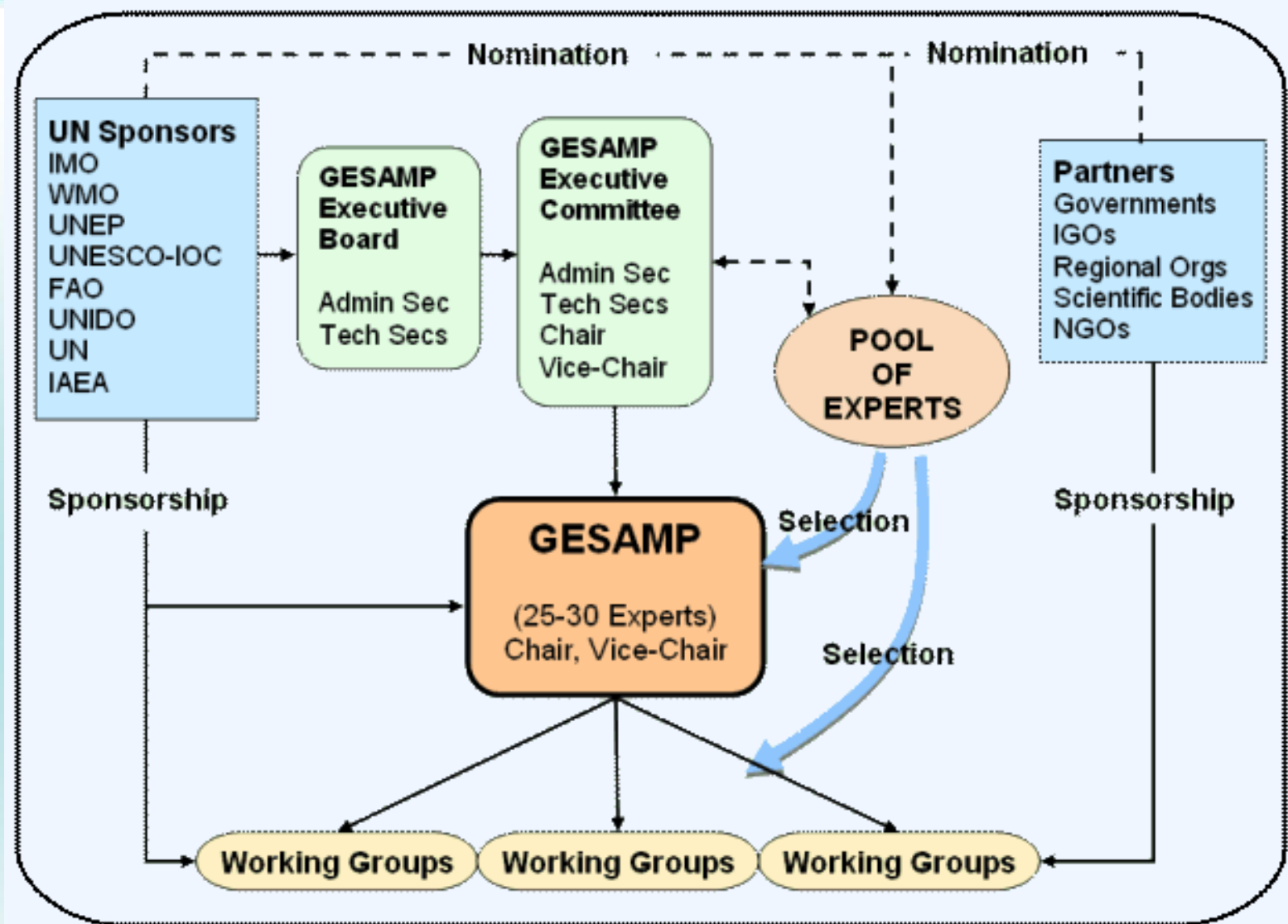
Mr. Fredrik Haag

International Maritime Organization
4 Albert Embankment
London SE1 7SR
United Kingdom

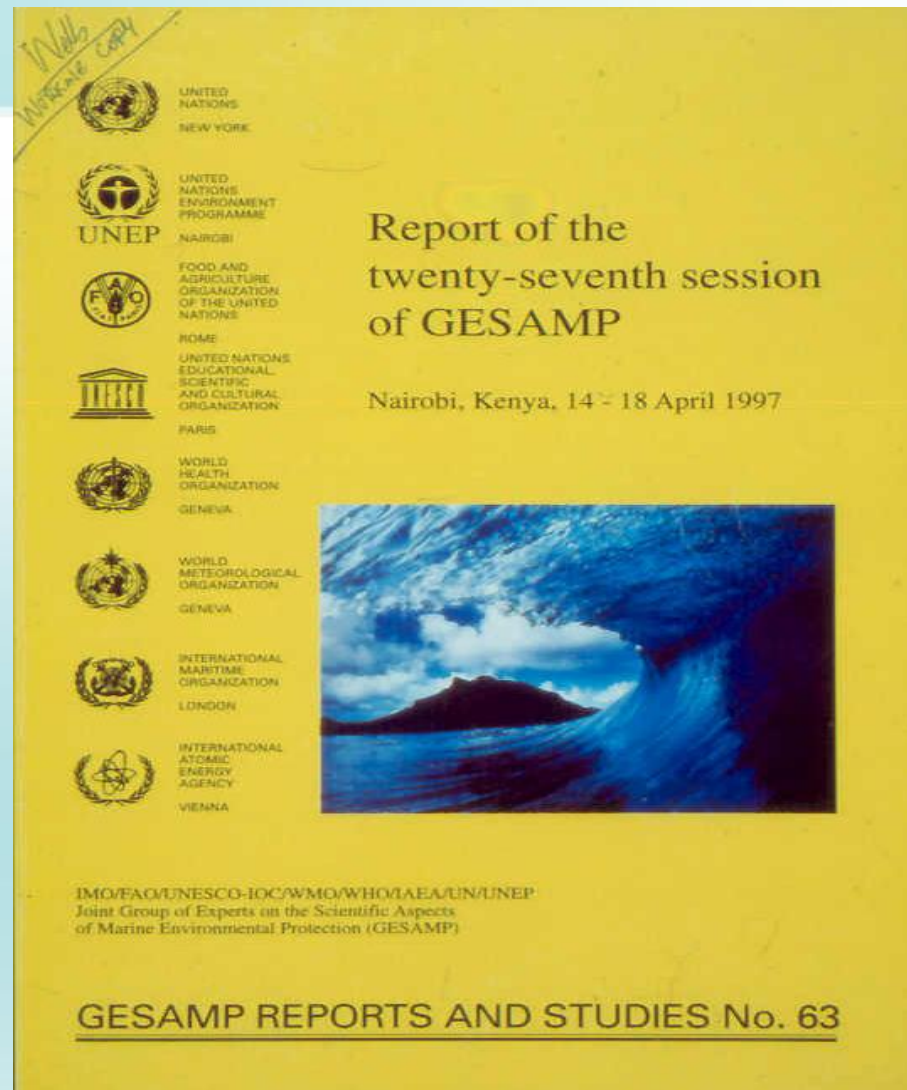
GESAMP Meetings



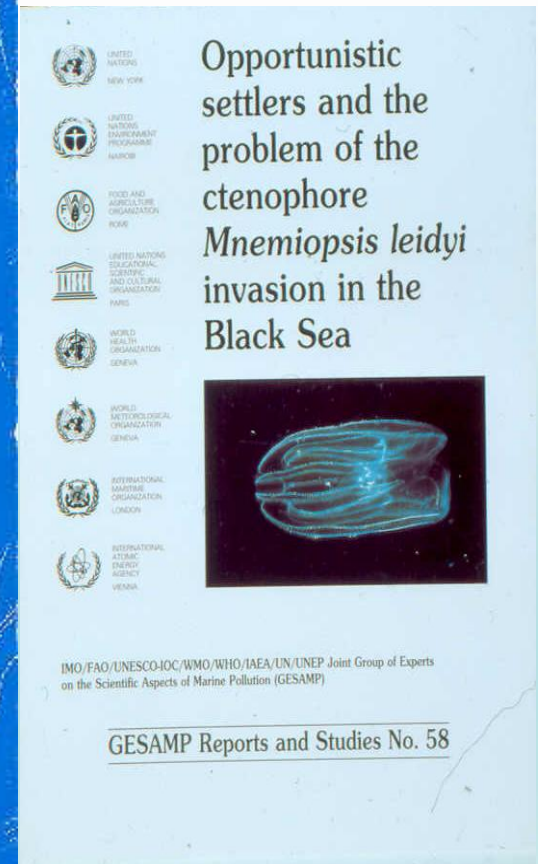
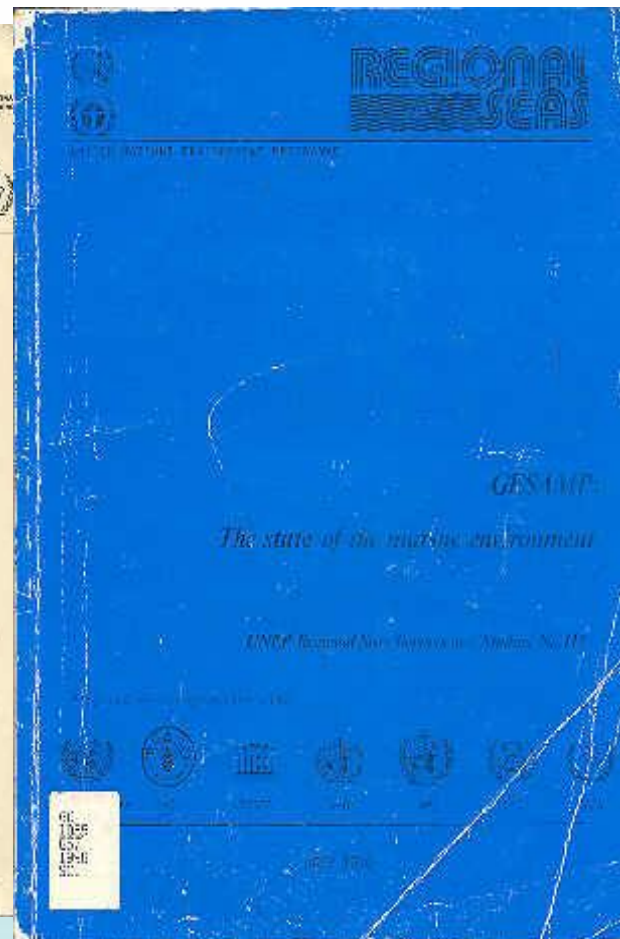
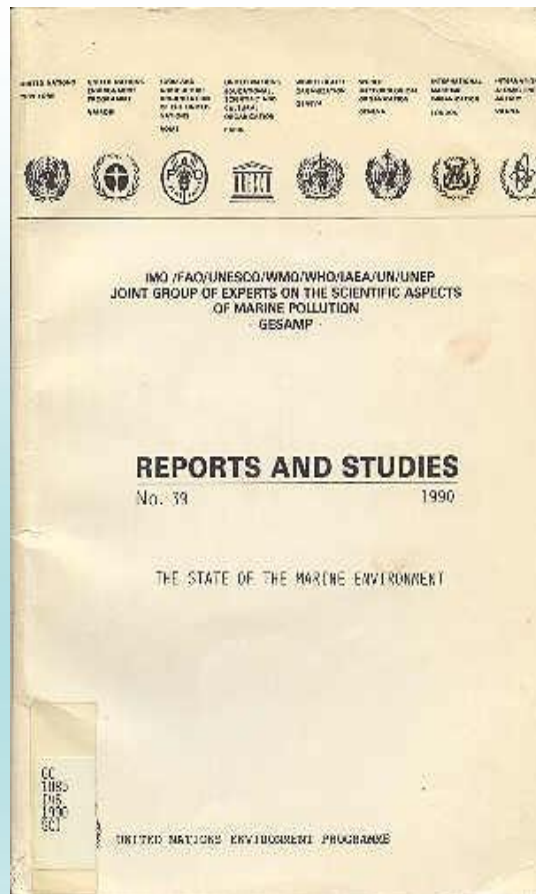
Organizational relationships in GESAMP



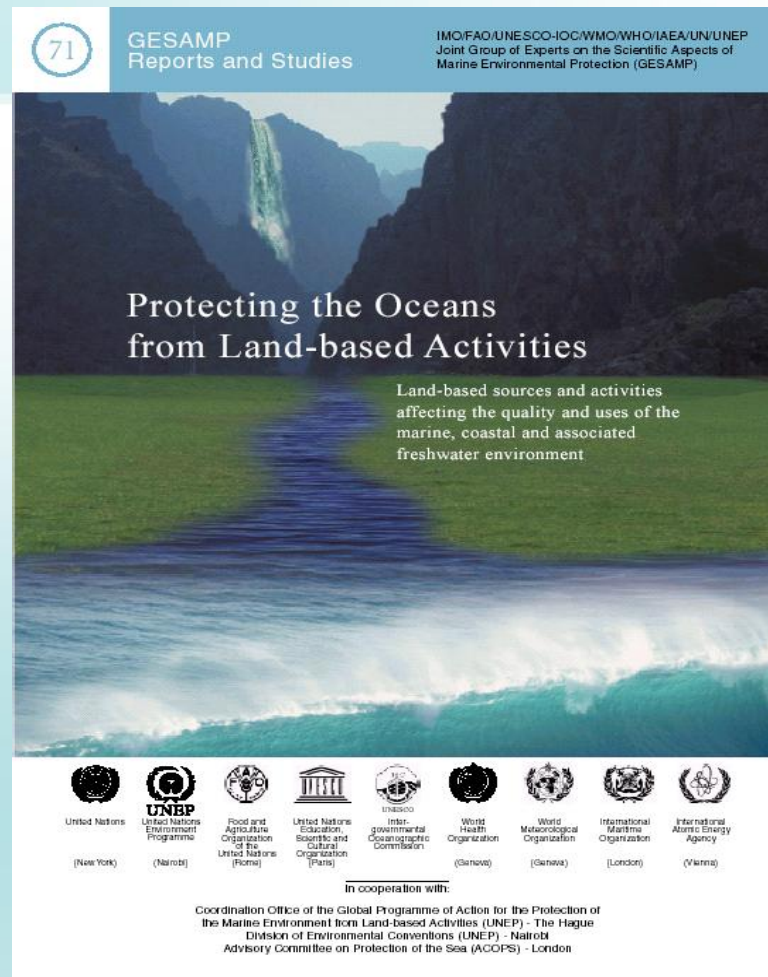
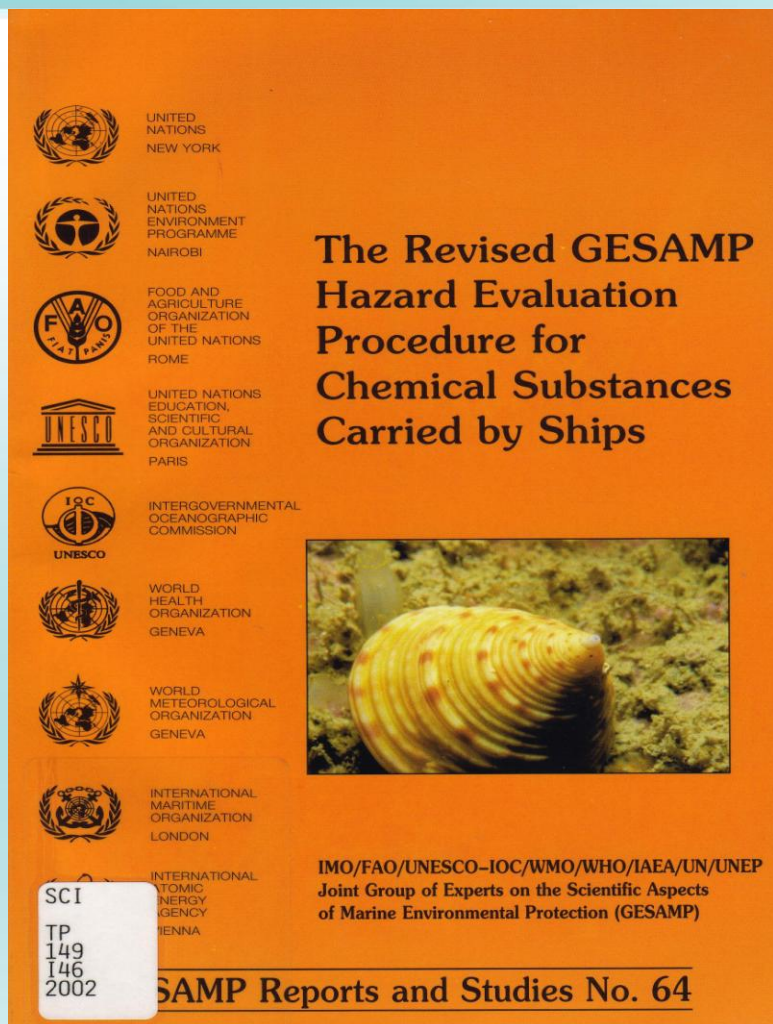
Report of a GESAMP Session



Selected earlier GESAMP Reports



2002 Guidelines that inform the application of MARPOL



**Reports available at
gesamp.imo.org**

70

GESAMP
Reports and Studies

IMO/FAO/UNESCO-IOC/WMO/WHO/IAEA/UN/UNEP
Joint Group of Experts on the Scientific Aspects of
Marine Environmental Protection (GESAMP)



A Sea of Troubles



In cooperation with:

Coordination Office of the Global Programme of Action for the Protection of
the Marine Environment from Land-based Activities (UNEP) - The Hague
Division of Environmental Conventions (UNEP) - Nairobi
Advisory Committee on Protection of the Sea (ACOPS) - London

Report # 70

Prepared with assistance of
a science journalist

75



GESAMP
Joint Group of Experts on the
Scientific Aspects of Marine
Environmental Protection

REPORTS AND STUDIES

ESTIMATES OF OIL ENTERING THE MARINE ENVIRONMENT FROM SEA-BASED ACTIVITIES





GESAMP

Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection

GESAMP

- GESAMP Presentation
- Publications
 - Forthcoming Publications**
 - New Publications
- Organization
- GESAMP Members
- Executive Board
- Current Work Programme
 - Annual Report of the Chairman
- Contact GESAMP

Events & Information

- Sessions and Meetings
 - 34th Session of GESAMP
- Environmental News
- Links
- Influence of Environmental Information

Forthcoming publications

The following GESAMP publications are in the process of being published:

- Reports to GESAMP No. 1:**
Report from the Workshop on the identification of themes of mutual interest between GESAMP and regional organizations
 Estimated publication date: September 2007
Electronic only
- GESAMP Reports and Studies No. 76:**
Assessment and Communication of Environmental Risks in Coastal Aquaculture
 Estimated publication date: November 2007
 Publishing agency: FAO
- GESAMP Reports and Studies No. 77:**
Report of the thirty-fourth session of GESAMP. Paris 7-11 May, 2007
 Estimated publication date: August 2007
 Publishing agency: UNESCO-IOC

Types of GESAMP Publications

Type of Content	Type of Publication	Items in English	Translations Identified
Session Reports	<i>GESAMP Reports and Studies</i>	25	59
	Early sessions - documents	6	15
	Early sessions - other series	1	4
	Related journal articles	7	
Thematic Reports	<i>GESAMP Reports and Studies</i>	48	7
	Supplements to early session reports	2	4
	Identical versions in other series	14	2
	Only published in other series	2	
	Report drafts and other working documents (# not determined)		
	Related books (commercial publishers)	2	
	Related journal articles (primary literature)	6	
About GESAMP	Histories of GESAMP	2	
	Journal articles describing GESAMP (not included as targets in the citation study)	6	

Variations in Bibliographic Elements – Title Page, Cover, and Recommended Citation Format

Report	Element	Location	Contents
#61 (1996)	Corporate author	Title page	IMO/FAO/Unesco-IOC/WMO/WHO/IAEA/UN/UNEP Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection - GESAMP -
		Cover	IMO/FAO/UNESCO-IOC/WMO/WHO/IAEA/UN/UNEP Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection (GESAMP)
		Citation format	GESAMP (IMO/FAO/UNESCO-IOC/WMO/WHO/IAEA/UN/UNEP Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection)
	Series	Title page	Reports and Studies No. 61
		Cover	GESAMP Reports and Studies No. 61
		Citation format	<u>Rep.Stud.GESAMP</u> , (61):66 p.
	Title	Title page	The contributions of science to integrated coastal management
		Cover	The contributions of science to integrated coastal management
		Citation format	The contributions of science to coastal zone management
#67 (1999)	Title	Title page	Report of the twenty-ninth session, London, United Kingdom , 23-26 August 1999
		Cover	Report of the twenty-ninth session of GESAMP London, 23-26 August 1999
		Citation format	Report of the Twenty-Ninth Session, London, United Kingdom , 23-26 August 1999

Locating GESAMP Citations

Web of Science / Web of Knowledge

- ✗ an interdisciplinary citation index
- ✗ compact format for representing citations
- ✗ no standard way of entering Grey Literature citations

Multiple searches required

- ✗ searches based on GESAMP sponsoring agencies
- ✗ report series, titles
- ✗ searches for books and papers

“J*GR*EX” in *Cited Author*

	Hits	Cited Author	Cited Work	Volume	Page	Year
<input type="checkbox"/>	1	*JOINT GROUP EXP S	115 JOINT GROUP EXP			1990
<input type="checkbox"/>	1	*JOINT GROUP EXP S	115 UNEP			1990
<input type="checkbox"/>	1	*JOINT GROUP EXP S	30 REP STUD			1986
<input type="checkbox"/>	1	*JOINT GROUP EXP S	39 REP STUD			1990
<input type="checkbox"/>	1	*JOINT GROUP EXP S	78887IM WHOWA UN ED			1987
<input type="checkbox"/>	1	*JOINT GROUP EXP S	GESAMP	50	1	1993
<input type="checkbox"/>	1	*JOINT GROUP EXP S	GESAMP REP STUD	39		1990
<input type="checkbox"/>	1	*JOINT GROUP EXP S	REP STUD	115		1990
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IMO*FAO* in *Cited Work*

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<input type="checkbox"/>	1		IMOFAO UNESCO WMO WHO IA			1986

Search Strategies – Cited Work

• FAO* REP*	n*FAO* REP*	(n=0,9)
• GESAMP*	i*GESAMP*	(i=0,9 and A-Z)
• G* REP* STUD*	n*G* REP* STUD*	(n=0,9)
• GR* EX* SC*	n*GR* EX* SC*	(n=0,9)
• IMCO*FAO* or IMCO* REP*	n*IMCO*	(n=0,9)
• IMO*FAO* or IMO* REP*	n* IMO*	(n=0,9)
• J* GR* EX*	n*J* GR* EX*	(n=0,9)
• REG* SEA*	n*REG* SEA*	(n=0,9)
• REP STUD*		
• REPORTS STUDIES*	n*REP* STUD*	(n=0,9)
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• WHO* REP* ST*	n*WHO* REP* ST*	(n=0,9)
• WMO* REP* ST*	n*WMO* REP* ST*	(n=0,9)

Citations Located

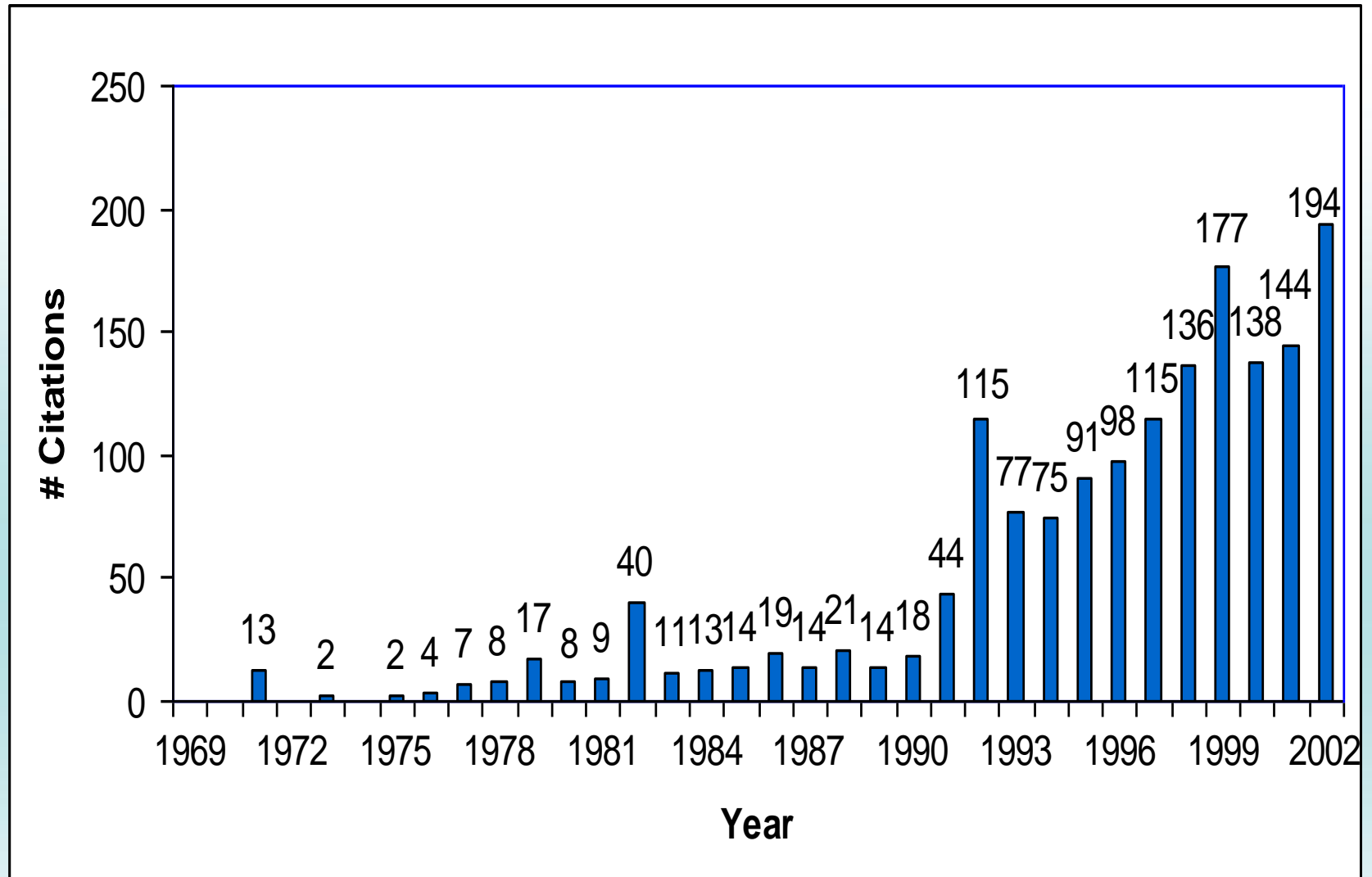
1518 citations in 1251 papers

88% of citations list only one
GESAMP publication

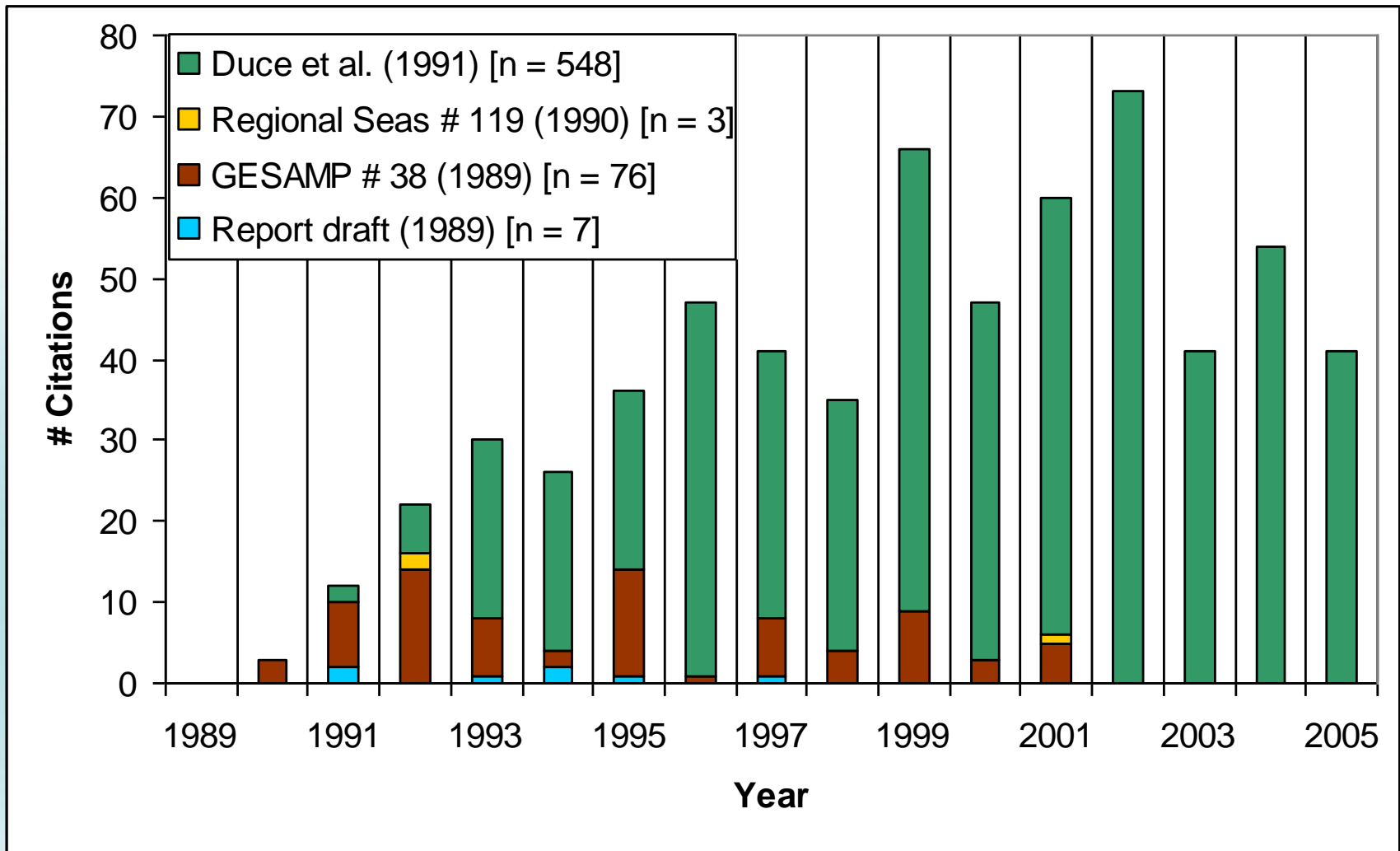
96% of citations are to thematic
reports

61% of citations are to true grey
literature

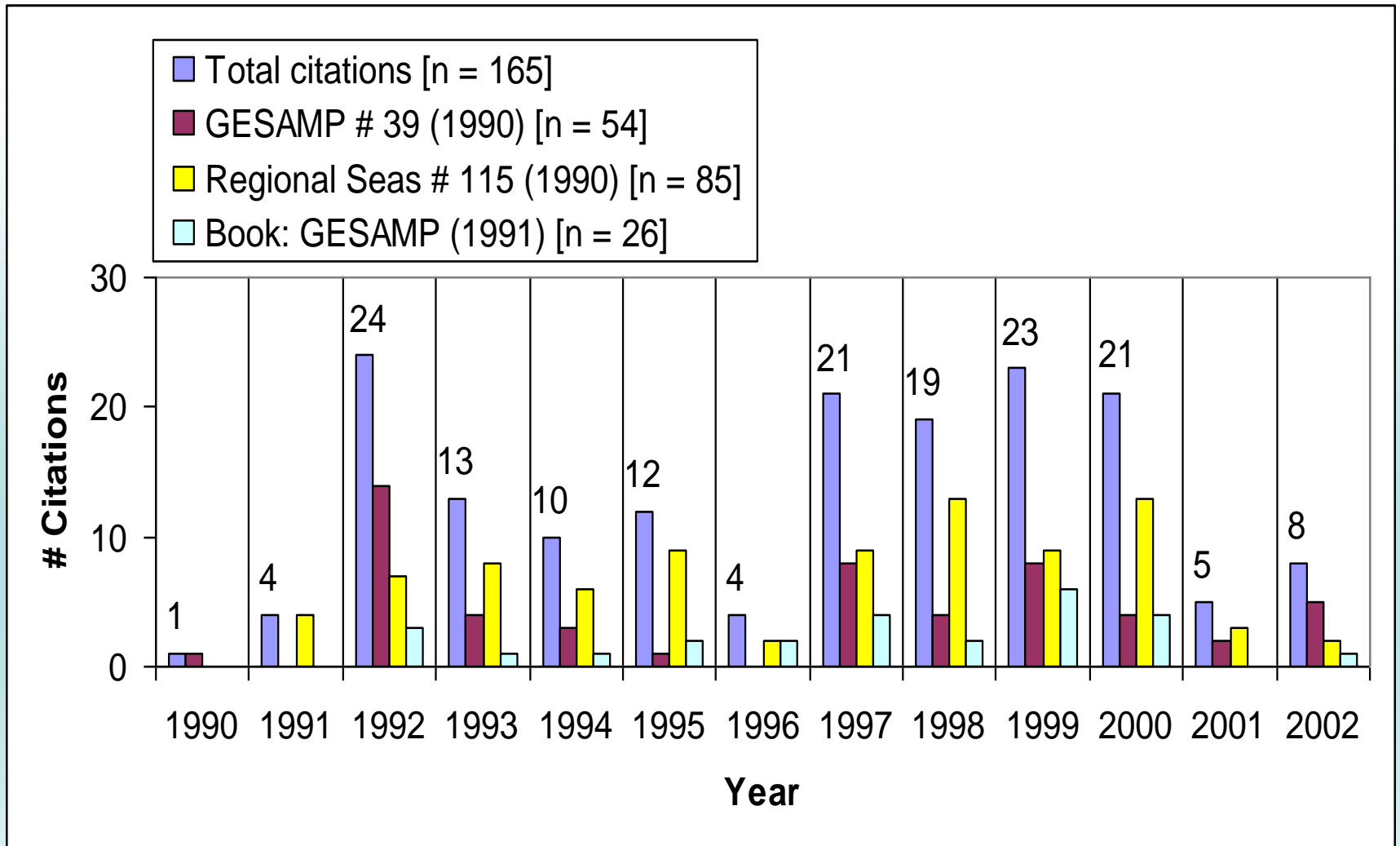
Frequency of Citations to GESAMP Publications (to the end of 2002)



Citations to Versions of *The Atmospheric Input of Trace Species to the World Ocean* (GESAMP Report)



Citations to Versions of *The State of the Marine Environment* (to 28 July 2002)



Self-citation within GESAMP

Identified 690 people connected to GESAMP

✗ members, administrators, observers at sessions

✗ working group members, reviewers (6 reports)

✗ year when they joined GESAMP

- *146 of them cite GESAMP*
- *In 363 citing papers*

Who Cites GESAMP Reports?

Individuals Associated with GESAMP

- ✗ 28% of the citing papers
- ✗ 34% of the citations

All Others

- ✗ More than 70% of the citing papers

Geographic Distribution of Citing Authors

Western Europe — 43%

North America & Caribbean — 31%

Asia — 8%

Australia & New Zealand — 6%

Eastern Europe — 5%

Middle East — 4%

Africa — 2%

South America — 1%

Categories from Journal Citation Reports

Top Science Categories

	<i># citations</i>	<i># journals</i>
• Environmental Sciences	641	58
• Marine & Freshwater Biology	385	43
• Oceanography	223	27
• Geosciences, Interdisciplinary	135	28
• Meteorology & Atmospheric Sciences	115	11

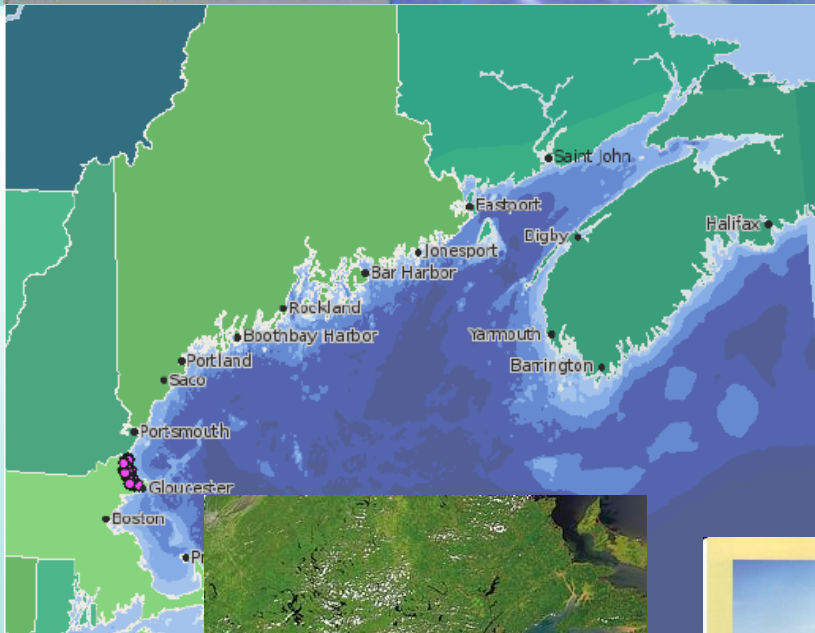
Top Social Science Categories

• International Relations	64	8
• Environmental Studies	52	5
• Law	26	7

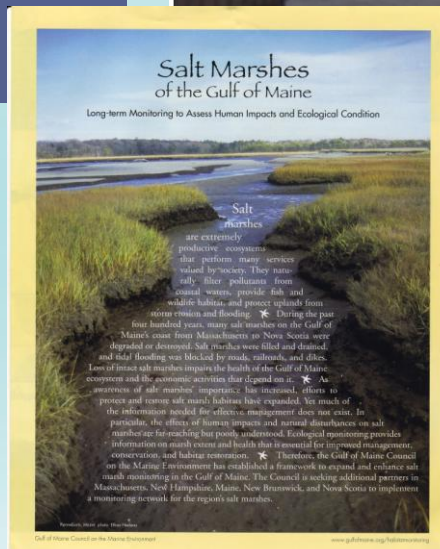
Other Diverse Science Categories

• Engineering, Environmental	78	8
• Fisheries	51	14
• Public, Environmental & Occup. Health	17	7
• Food Science & Technology	10	6

Gulf of Maine Council on the Marine Environment



Gulf of Maine Habitat Restoration Web Portal



Workshop Report

2001: Managing Nitrogen Impacts in the Gulf of Maine

Prepared by the
NOAA/UNH
Cooperative Institute for
Coastal and Estuarine
Environmental
Technology (CICEET),
the Gulf of Maine
Council on the Marine
Environment, and
NOAA's National Ocean
Service







Promoting Cooperation to Maintain and Enhance Environmental Quality in the Gulf of Maine

Fall 2007
Volume 11, Number 3

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Features & Columns

Editor's Notes
[Visionaries: An eye toward the future](#)

[New version of ESIP monitoring map available](#)



PHOTO: Iain MacLeod

Gulf Voices
[A day on Great Bay: In](#)



Kayakers in the Musquash Estuary, which became a Marine Protected Area thanks in part to Visionaries like Friends of Musquash. See [Visionaries](#) and [Protecting](#).

COURTESY: David Thompson, Conservation Council of New Brunswick

Visionaries in the Gulf of Maine
By Susan Llewellyn Leach

Ocean Tracking Network to shed light on undersea life

By Stephen Leahy

Imagine a spotlight on the ocean floor just off of Halifax, Nova Scotia, powerful enough to create a tube of light 400 metres or 1,312 feet in diameter and 20 kilometres or 12 miles out to the edge of the Scotian shelf. And imagine what this tube of light might reveal operating continuously.

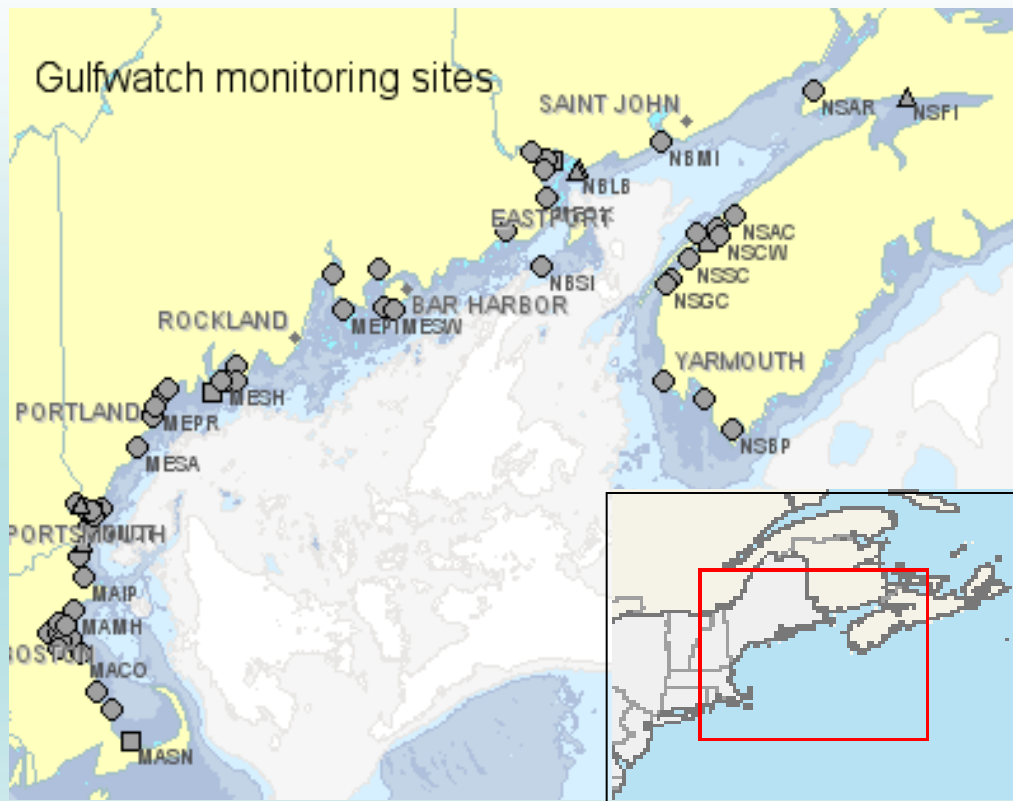


An acoustic unit being deployed in a test.

COURTESY: Pacific Ocean Shelf Tracking Project

While no such spotlight exists yet, there soon will be something akin to it. A series of up to 212 acoustic receivers, one every 732 metres (800 yards) or so on the ocean floor, soon will create an "acoustic curtain"

GOMC Gulfwatch Program



International monitoring program of contaminants

Indicator species — blue mussels (*Mytilus edulis*) collected, each fall, from intertidal areas in coastal embayments



Gulf of Maine Council on the Marine Environment

Promoting cooperation to maintain and enhance environmental quality

Home

Gulf of Maine Information Clearinghouse

- Gulf of Maine Times
- News
- People Finder
- NGO Directory
- About the Gulf of Maine

In the Spotlight

- Regional Habitat Monitoring Data System
- Action Plan 2007-2012
- Ecosystem Indicator Partnership (ESIP)
- Habitat restoration grants & strategy
- Gulf of Maine Mapping Initiative (GOMMI)
- Gulfwatch Monitoring Program
- Gulf of Maine Marine Habitat Primer

About the Council

- Overview
- Committees
- Projects
- Meetings
- Publications
- Media room

Gulf of Maine Council on the Marine Environment Action Plan 2007-2012

The Action Plan describes the long-range goals, outcomes, and activities that the Council is pursuing through its committees and partnerships.

- ◆ Goal 1: Protect and restore habitats.
- ◆ Goal 2: Foster environmental and human health.
- ◆ Goal 3: Support vibrant communities.

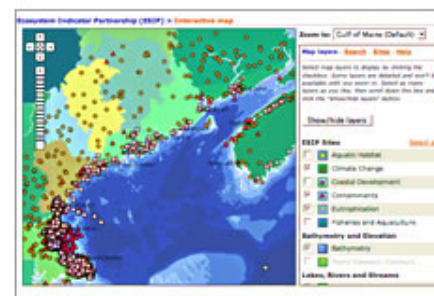
[Action Plan Web page](#)



ESIP Monitoring Map Version 2.0

Interactive map showing the locations of monitoring programs for aquatic habitat, climate change, coastal development, contaminants, eutrophication, and fisheries and aquaculture.

[ESIP Monitoring Map](#)



Regional Habitat Monitoring Data System

Web-based system that enables sharing, integration, and use of coastal habitat monitoring



Promoting Cooperation to Maintain and Enhance Environmental Quality in the Gulf of Maine

[Visionaries: Protecting the future of the Gulf of Maine](#)

[More from the fall 2007 issue](#)

[Sign up for free subscription](#)

Directories

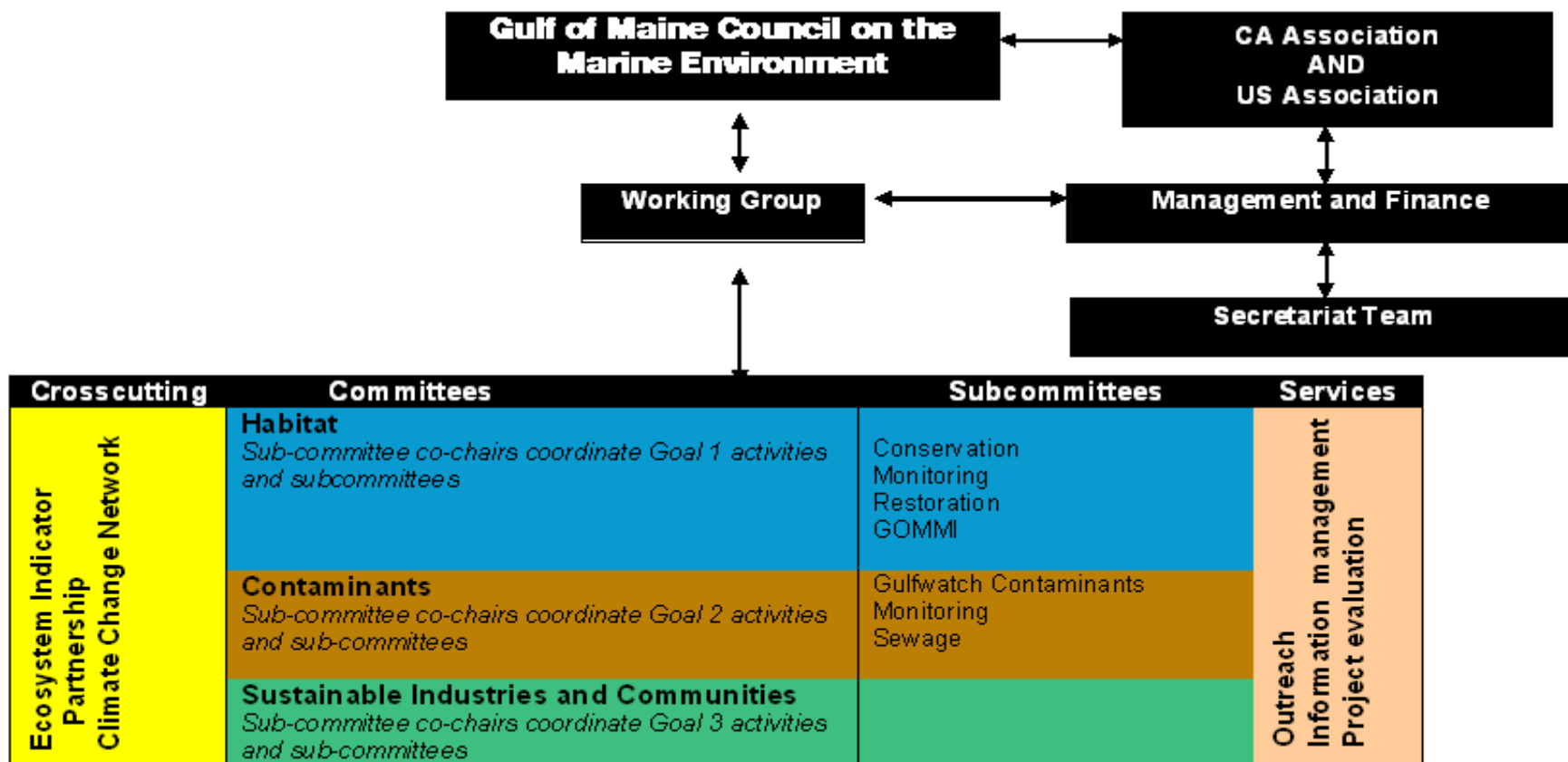
[People Finder](#) Database of 10,000 people working for the Gulf of Maine ecosystem

[NGO Directory](#) Database of 600 NGOs working for the Gulf of Maine ecosystem

[Environmental Monitoring Program Locator](#) Database of 299 monitoring programs in the Gulf of Maine region

Current News

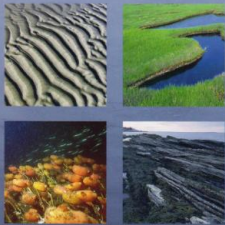
[Government of Canada announces new funding for Gulf of Maine Council on the](#)



Partnerships
GOM Ocean Data Partnership
Northeast Aquatic Nuisance Species Panel

Potential Strategic Alliances
BoFEP
Census for Marine Life
GoMOOS
RARGOM
Place-based Groups (ACAP, NEP, NERR)

Gulf of Maine Marine Habitat Primer



Gulf of Maine Council on  the Marine Environment

TIDES OF CHANGE ACROSS THE GULF

*An Environmental Report on the
Gulf of Maine and Bay of Fundy*



Prepared for the Gulf of Maine Summit: Committing to Change,
Fairmont Algonquin Hotel, St. Andrews, New Brunswick, Canada,
October 26-29th, 2004

Editors:

Gerald G. Pesch

*United States Environmental Protection Agency, ORD/NHEERL/AED, Narragansett,
Rhode Island*

Peter G. Wells

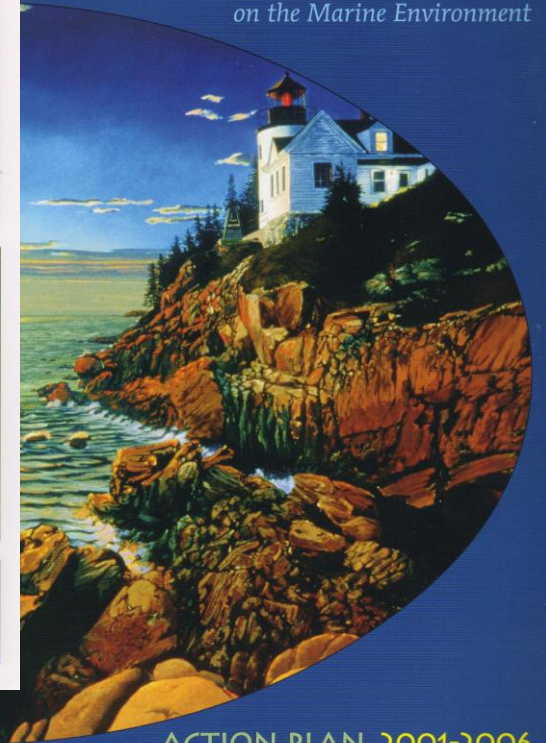
Environmental Conservation Branch, Environment Canada, Dartmouth, Nova Scotia

Published by:

Gulf of Maine Council on the Marine Environment and Global Programme of Action Coalition for the Gulf of Maine

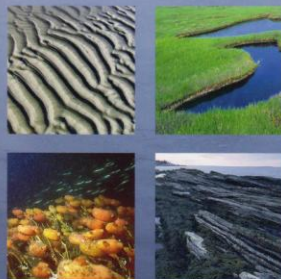



Gulf of Maine Council *on the Marine Environment*



ACTION PLAN 2001-2006

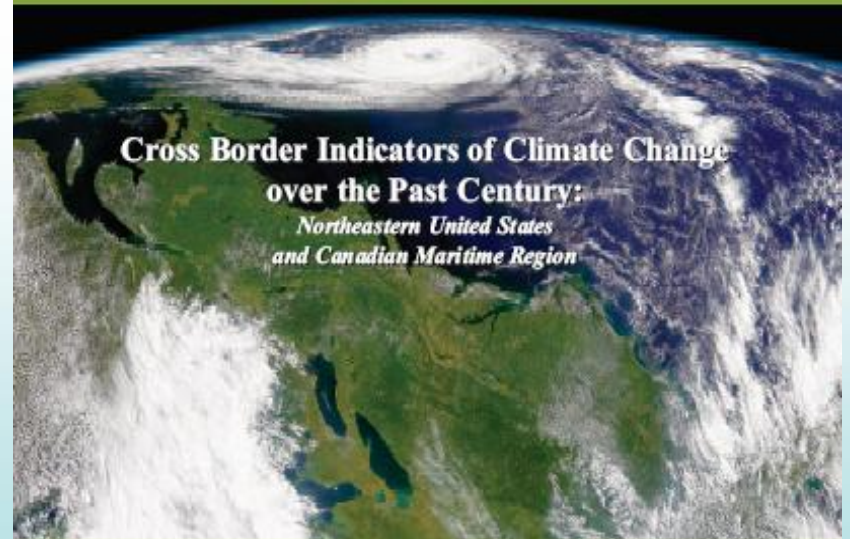
Gulf of Maine
Marine Habitat Primer



Gulf of Maine Council on  the Marine Environment

Published in print, 2005

**Cross Border Indicators of Climate Change
over the Past Century:**
*Northeastern United States
and Canadian Maritime Region*



The Climate Change Task Force of the Gulf of Maine Council on the Marine
Environment in cooperation with Environment Canada and Clean Air-Cool Planet

Published online, 2006



Gulf of Maine Council on the Marine Environment

Promoting cooperation to maintain and
enhance environmental quality

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- Action Plan 2007-2012
- Ecosystem Indicator Partnership (ESIP)
- Habitat restoration grants & strategy
- Gulf of Maine Mapping Initiative (GOMMI)
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- Gulf of Maine Marine Habitat Primer

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A selection of recent publications produced or sponsored by the Council

- [Report on a Survey of Selected Major Marine Industries in the Gulf of Maine: Sustainability, Priorities, and the Council](#) (PDF, 1.1 MB)
- [Taunton Bay Mudflat Management Plan: A Case Study in Mudflat Fisheries Management Using Ecosystem-Based Principles](#) (PDF, 1 MB)
- [Gulf of Maine Council Publications and Their Use](#) (PDF, 2.64 MB)
- [American eels: Restoring a vanishing resource in the Gulf of Maine](#)
[High-resolution version](#) (PDF, 2.93 MB) for printing
[Low-resolution version](#) (PDF, 929 KB) for viewing on screen
Hard copies of the eel booklet will be available in spring 2007. To request hard copies, email your name, mailing address, and number of copies desired to [Peter Taylor](#) with "Request for eel booklet" as the subject line of your email.
- [Gulf of Maine Council on the Marine Environment Action Plan 2007-2012](#) (PDF, 1.8 MB)
To request a hard copy of the *Action Plan*, please email your name and mailing address to the Council's [contact person](#) in your state or province.
- [Gulf of Maine Council on the Marine Environment Work Plan at a Glance: January 2007 to July 2008](#) (PDF, 118 KB)
- [Cross-border Indicators of Climate Change Over the Past Century: Northeastern United States and Canadian Maritime Region](#) (PDF, 2.7 MB)
- [Marine habitats in the Gulf of Maine: assessing human impacts and developing management strategies \(workshop proceedings\)](#) (PDF, 846 KB)
- [A survey and synthesis of significant U.S. law and priorities influencing governance in the Gulf of Maine region](#) (PDF, 678 KB)
[Appendix A](#) (PDF, 104 KB)
[Appendix B](#) (PDF, 72 KB)
[Appendix C](#) (PDF, 150 KB)
by John R. Coon, University of New Hampshire (November 1, 2005)
- [Salt marshes of the Gulf of Maine: Long-term monitoring to assess human impacts and ecological condition](#)
- [Gulf of Maine marine habitat primer](#)



Gulf of Maine Council on the Marine Environment

Promoting cooperation to maintain and
enhance environmental quality

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Initiative (GOMMI)
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grants & strategy
- Gulf of Maine Marine
Habitat Primer
- Gulfwatch
Monitoring Program

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Site Search

Knowledgebase

The Gulf of Maine stretches from Cape Cod to Nova Scotia. Its watershed includes all of Maine and portions of Massachusetts, New Brunswick, New Hampshire, Nova Scotia, and Quebec. The Gulf of Maine Knowledgebase provides selected information about the ecosystem of this region.

About the Gulf of Maine

- ◆ [Introduction](#)
- ◆ [Gulf of Maine Marine Habitat Primer](#)
- ◆ [Overview of habitat types](#)
- ◆ [Photo gallery](#)
- ◆ [Maps](#)



Knowledgebase topics

- ◆ [Contaminants](#)
- ◆ [Mercury](#)
- ◆ [Nitrogen](#)
- ◆ [Sewage & wastewater](#)
- ◆ [Gulfwatch Contaminants Monitoring Program](#)
- ◆ [Ecosystem-based management \(EBM\)](#)
- ◆ [Presentations from EBM meeting - Portland, Maine](#)
- ◆ [Survey of U.S. law influencing Gulf governance](#)
- ◆ [Presentations from EBM meeting - Monterey, CA](#)
- ◆ [Environmental indicators](#)
- ◆ [Riparian buffers](#)
- ◆ [Salt marsh restoration](#)
- ◆ [Habitat restoration grants and strategy](#)
- ◆ [Fact sheet: Long-term monitoring of salt marshes](#)
- ◆ [Seafloor mapping](#)
- ◆ [Gulf of Maine Mapping Initiative \(GOMMI\)](#)

Directories

- ◆ [People Finder](#) Database of 10,000 people working for the Gulf of Maine ecosystem
- ◆ [NGO Directory](#) Database of 600 NGOs working for the Gulf of Maine ecosystem
- ◆ [Environmental Monitoring Program Locator](#) Database of 299 monitoring programs in the Gulf of Maine region

Gulf of Maine Times

- ◆ [Credo for surfers: outreach and activism](#)
- ◆ [Spring 2006 issue](#)
- ◆ [Sign up for free subscription](#)

Current News

- ◆ [Contract available for Ecosystem Indicator Partnership Program](#)



GOMC Publications – (Total 312)*

Council Publications	
Reports and fact sheets	122
Background documents	38
Action plans and annual reports	29
Brochures and posters	10
Serials	4
Miscellaneous	9
Council-supported publications	
Reports and background documents	24
Miscellaneous documents	25
Reprints of Council authored documents	14
Conference papers, journal articles and abstracts	37

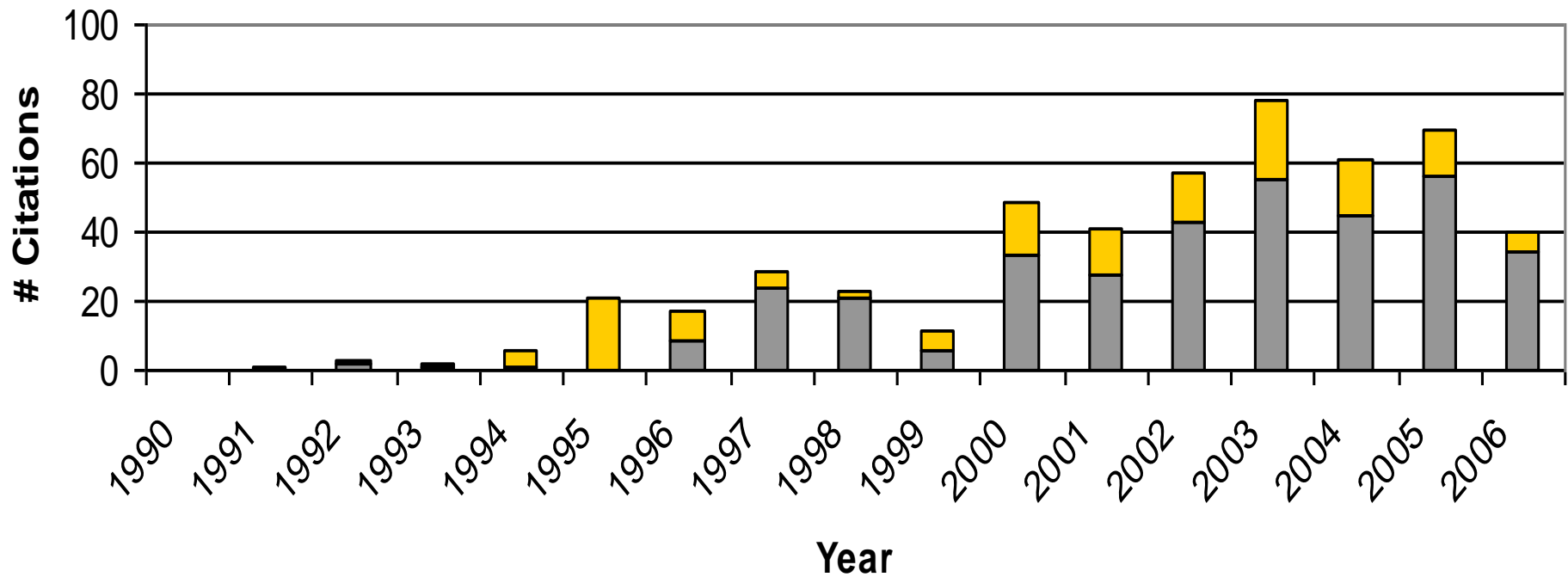
* As of 15 November 2006

Citations to GOMC Publications

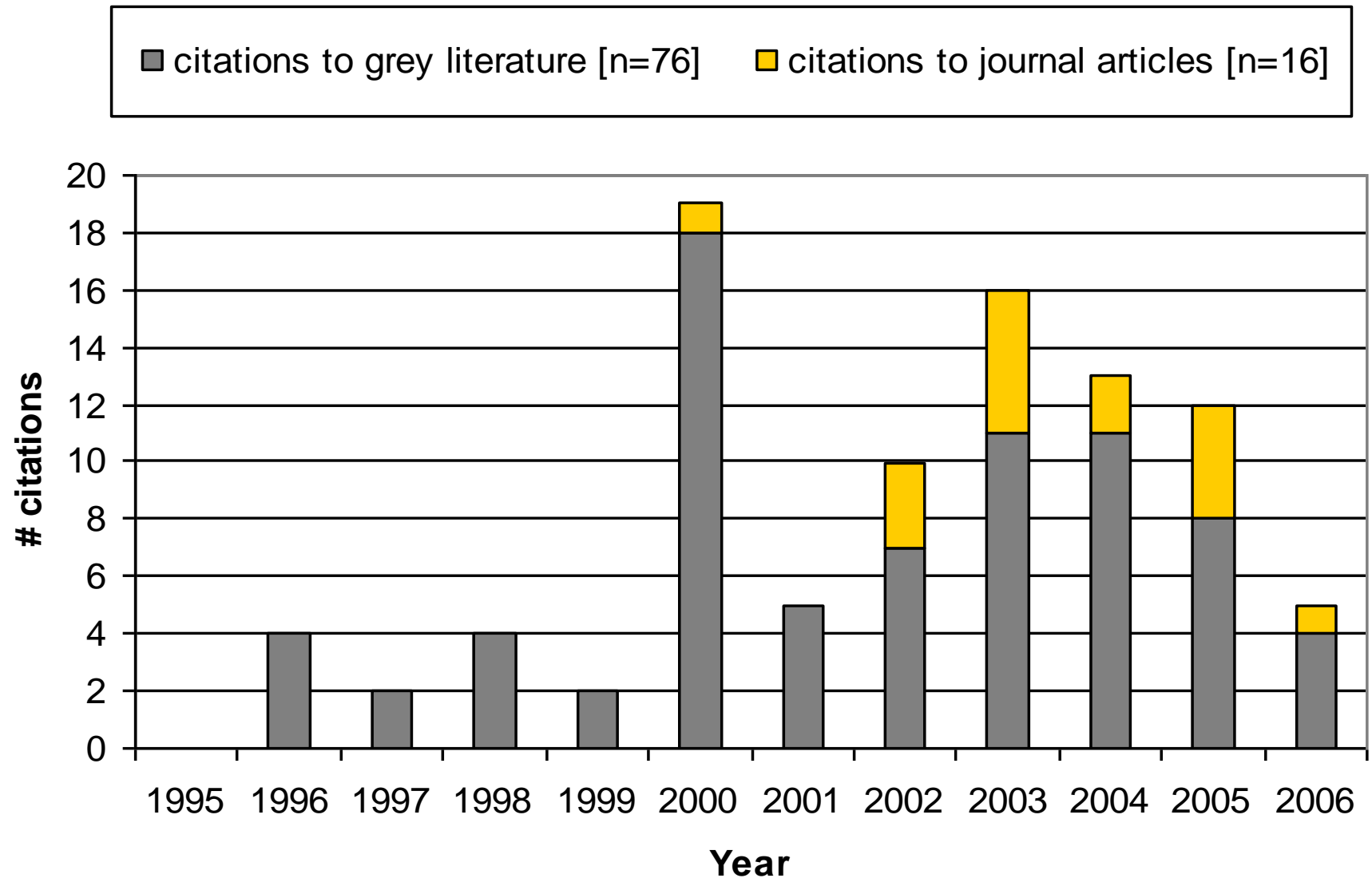
	Online	Print
Gulf of Maine Region	151	164
United States (outside Gulf region)	61	30
Canada (outside of Gulf region)	24	35
Europe	23	1
Rest of world	13	7
Total	272	237

509 Citations to GOMC Publications, 1990-2006

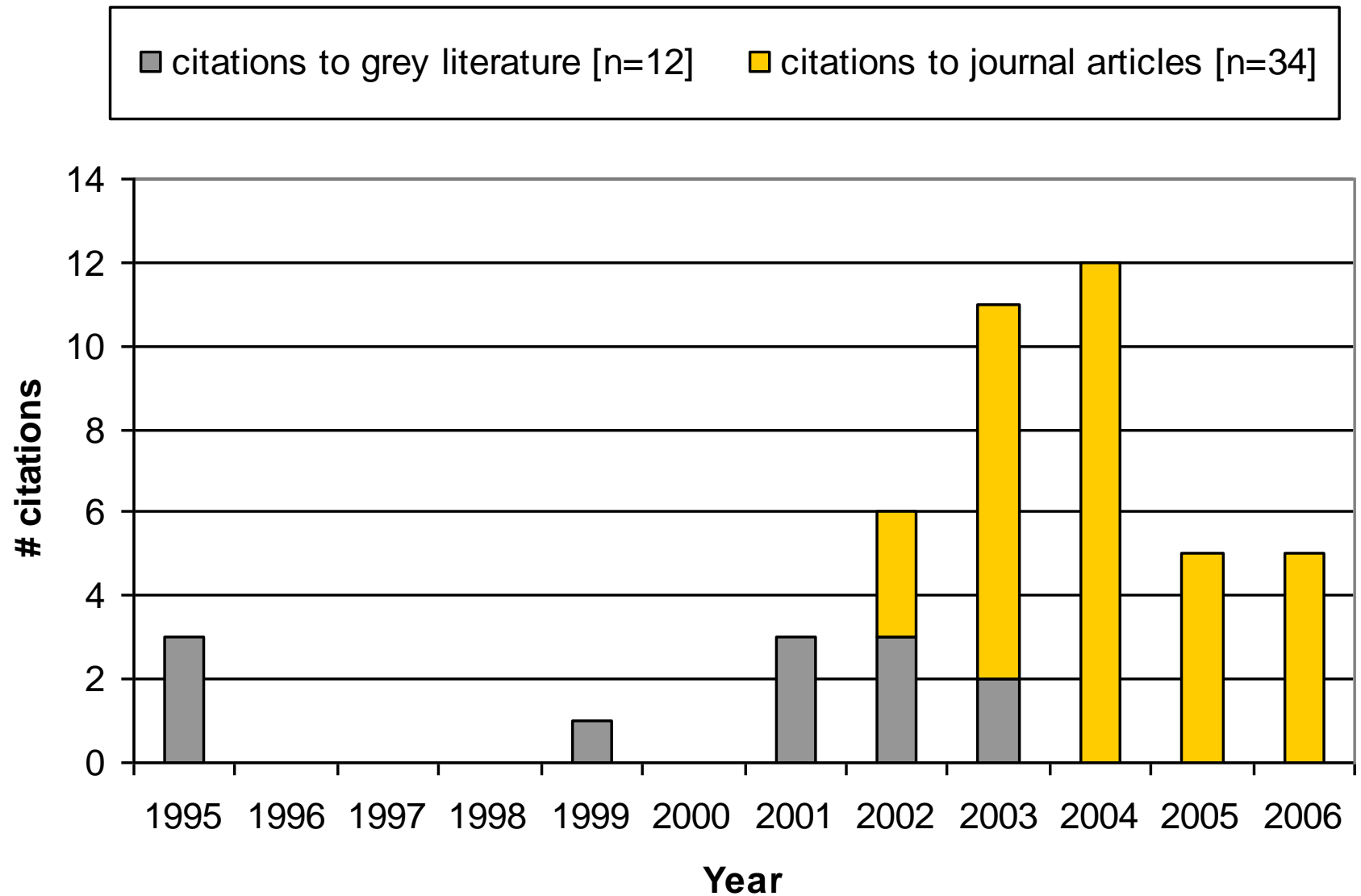
■ citations in grey literature [n=358] ■ citations in journals and books [n=151]



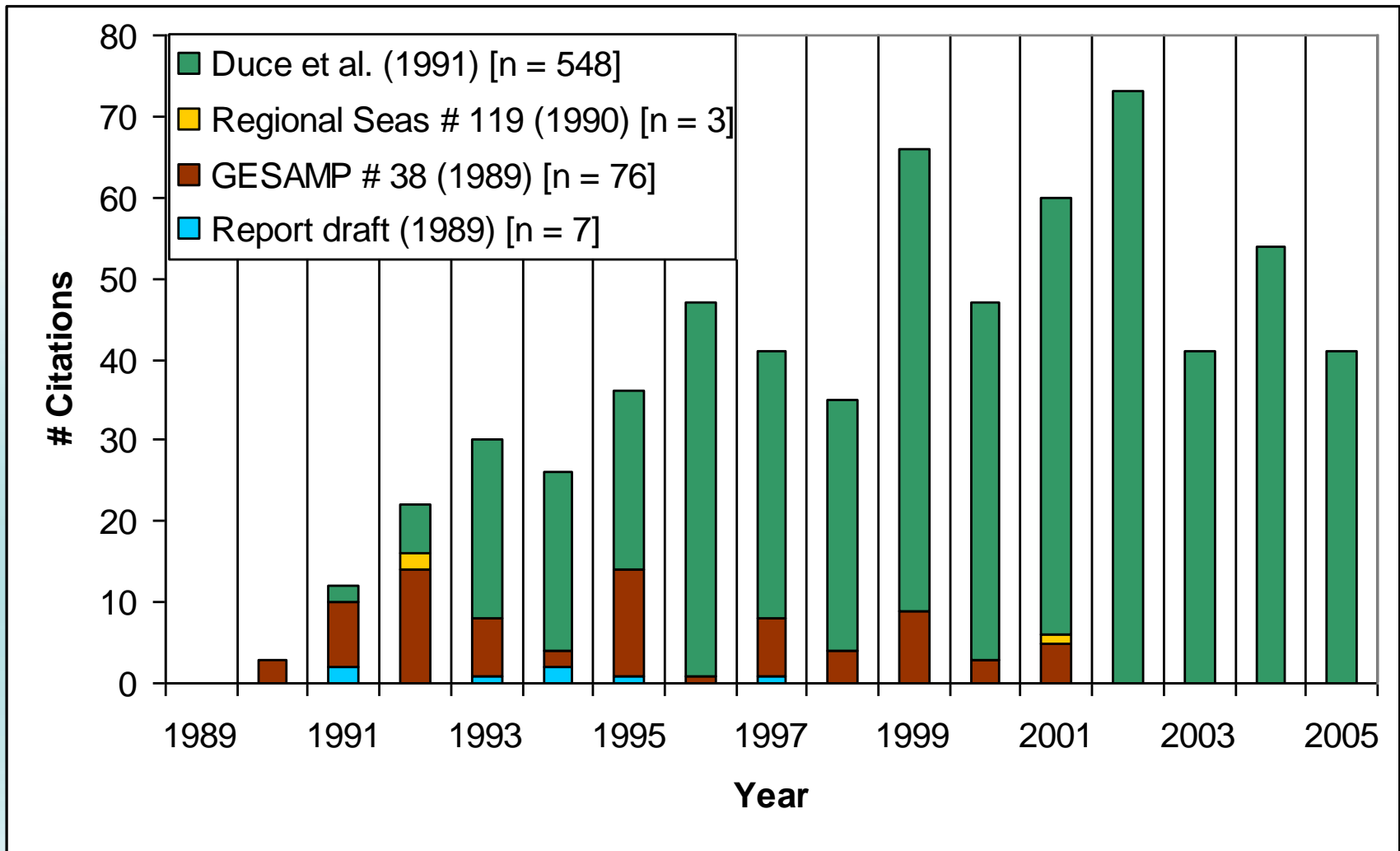
GOMC Gulfwatch: 92 Citations in Grey Literature



GOMC Gulfwatch: 46 Citations in journals

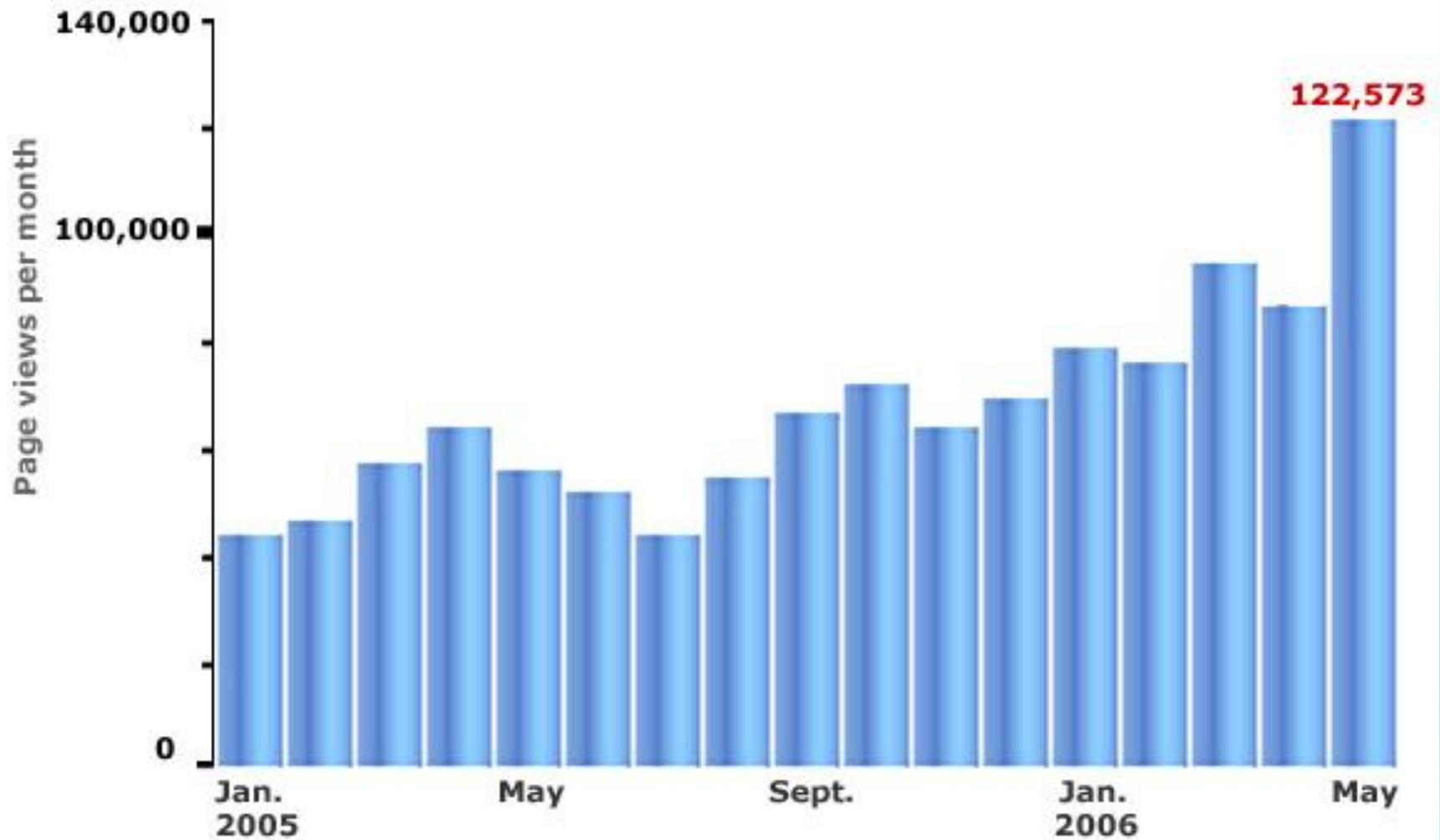


Citations to Versions of *The Atmospheric Input of Trace Species to the World Ocean* (GESAMP Report)



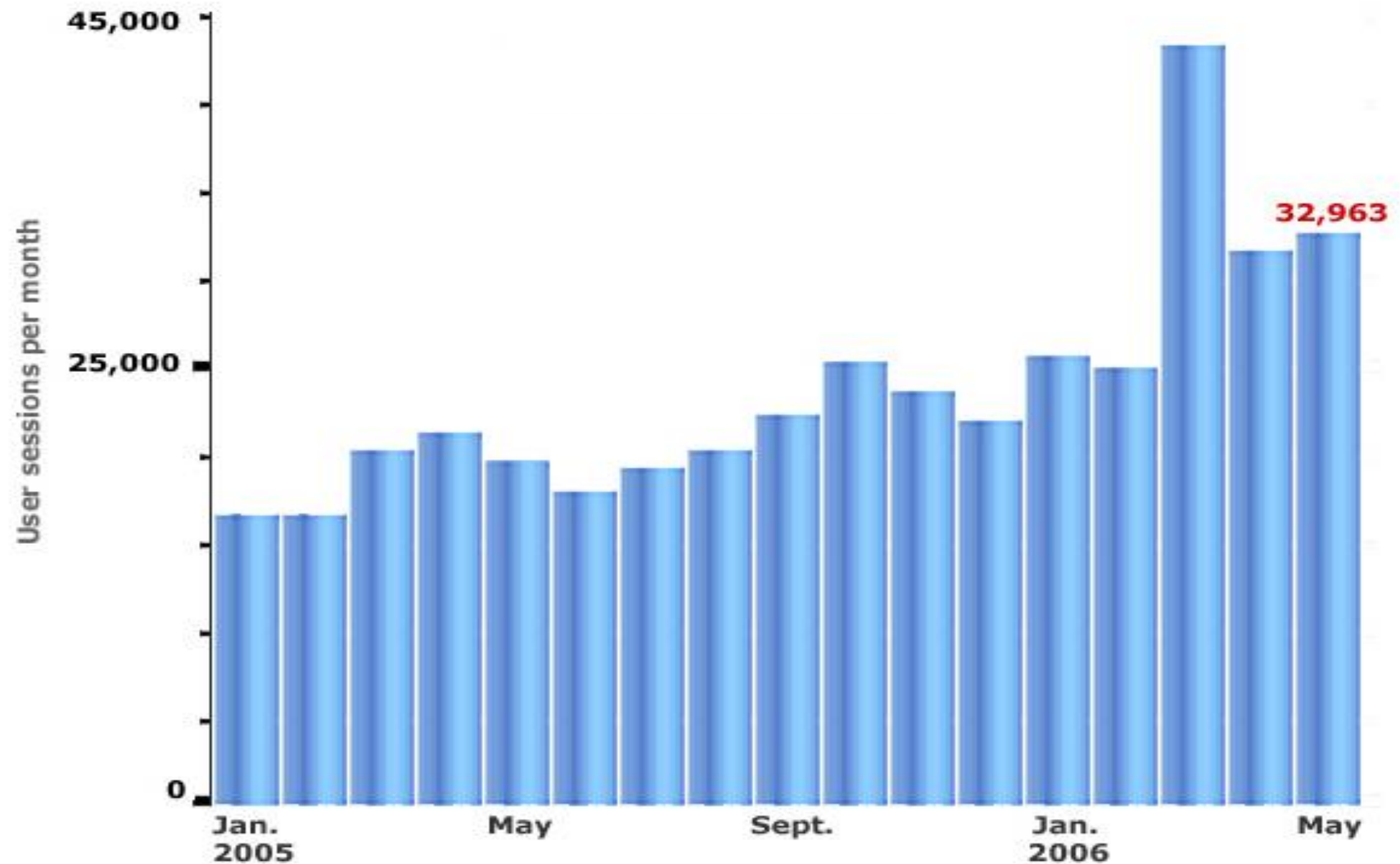
Page views per month www.gulfofmaine.org

January 2005-May 2006

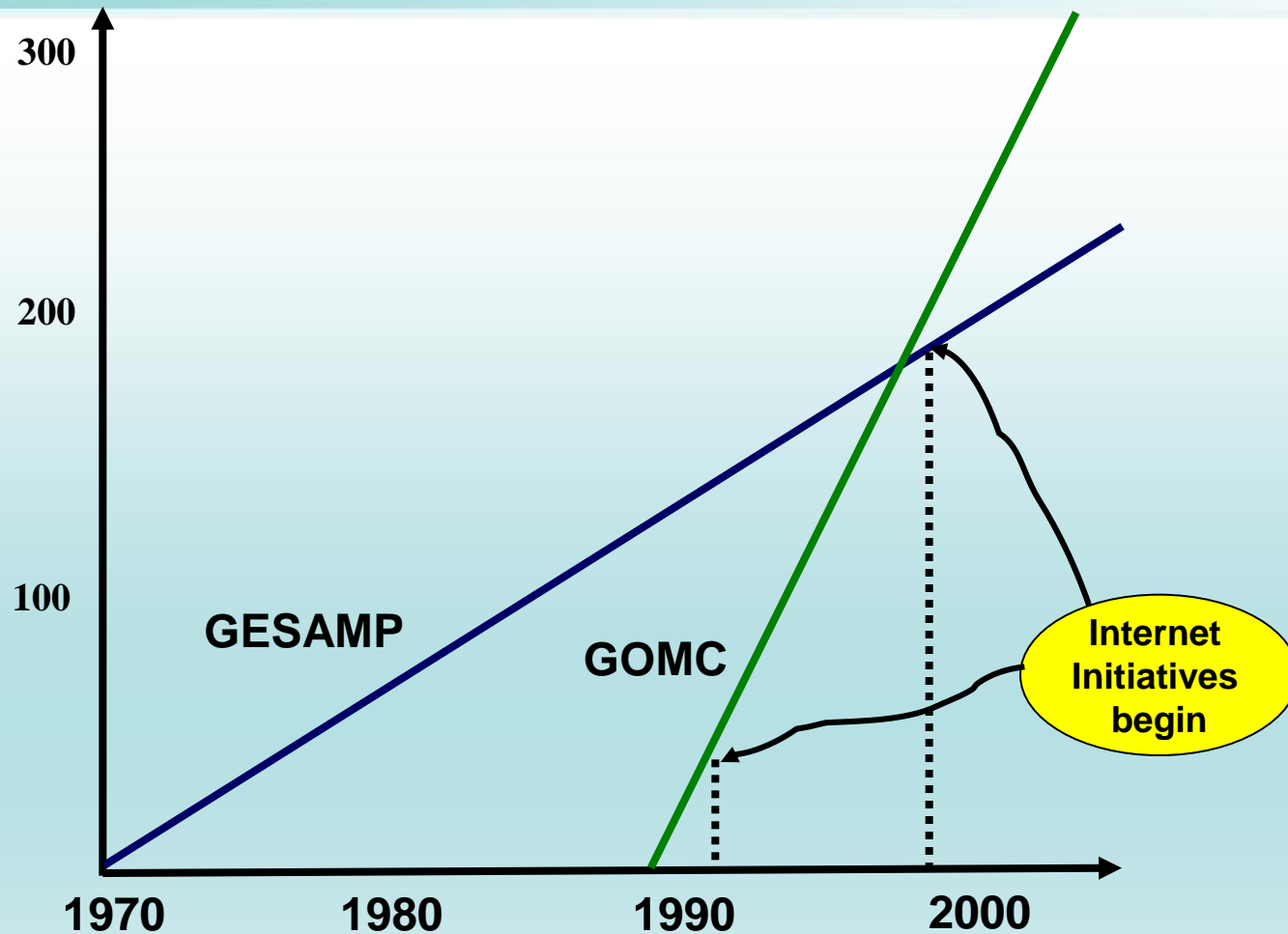


User sessions per month www.gulfofmaine.org

January 2005-May2006



Cumulative Rise in Publications of GESAMP & GOMC





United Nations
New York



United Nations
Environment
Programme
Nairobi



Food and Agriculture
Organization of the
United Nations
Rome



United Nations
Education, Scientific and
Cultural Organization
Paris



Intergovernmental
Oceanographic
Commission
Paris



World Health
Organization
Geneva



World Meteorological
Organization
Geneva



International
Maritime
Organization
London



International
Atomic Energy
Agency
Vienna

THE NEW GESAMP

SCIENCE FOR SUSTAINABLE OCEANS

A strategic vision for the
IMO/FAO/UNESCO-IOC/WMO/WHO/IAEA/UN/UNEP
Joint Group of Experts on the Scientific Aspects
of Marine Environmental Protection



75

REPORTS AND STUDIES



GESAMP
Joint Group of Experts on the
Scientific Aspects of Marine
Environmental Protection

ESTIMATES OF OIL ENTERING THE MARINE ENVIRONMENT FROM SEA-BASED ACTIVITIES



Notes

1. GESAMP is an advisory body consisting of specialized experts nominated by the Sponsoring Agencies (IMO, FAO, UNESCO-IOC, UNIDO, WMO, IAEA, UN, UNEP). Its principal task is to provide scientific advice concerning the prevention, reduction and control of the degradation of the marine environment to the Sponsoring Agencies.
2. This study is available in English only from any of the Sponsoring Agencies.
3. The report contains views expressed or endorsed by members of GESAMP who act in their individual capacities; their views may not necessarily correspond with those of the Sponsoring Agencies.
4. Permission may be granted by any of the Sponsoring Agencies for the report to be wholly or partially reproduced in publication by any individual who is not a staff member of a Sponsoring Agency of GESAMP, provided that the source of the extract and the condition mentioned in 3 above are indicated.

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For bibliographic purposes this document should be cited as:

GESAMP (IMO/FAO/UNESCO-IOC/UNIDO/WMO/IAEA/UN/UNEP Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection). 2007. Estimates of oil entering the marine environment from sea-based activities. Rep. Stud. GESAMP No. 75, 96 pp.



GESAMP

Joint Group of Experts on the
Scientific Aspects of Marine
Environmental Protection

Influence of Environmental Information

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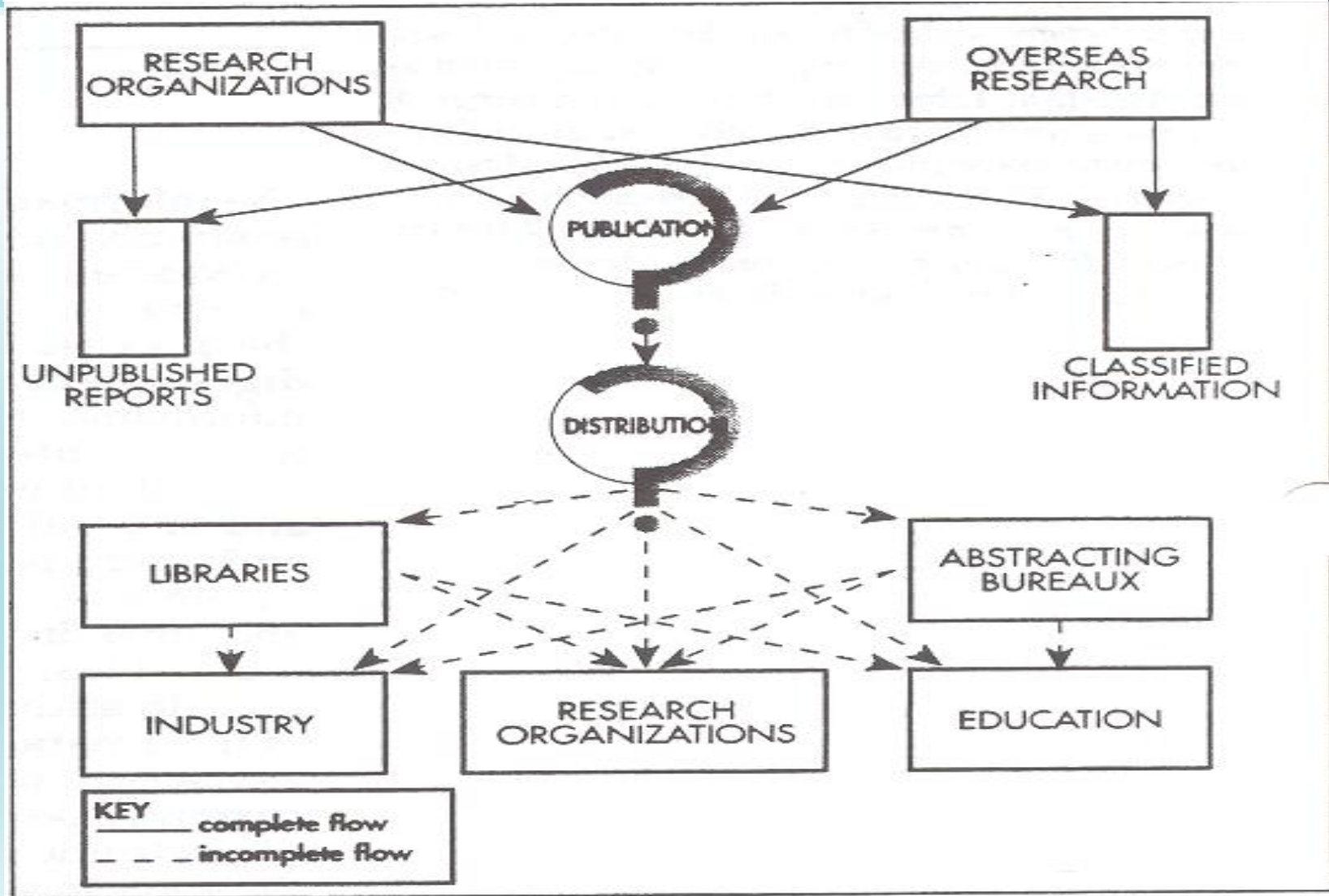
GESAMP

- GESAMP Presentation
- Publications
 - Forthcoming Publications
 - New Publications
- Organization
- GESAMP Members
- Executive Board
- Current Work Programme
 - Annual Report of the Chairman
- Contact GESAMP

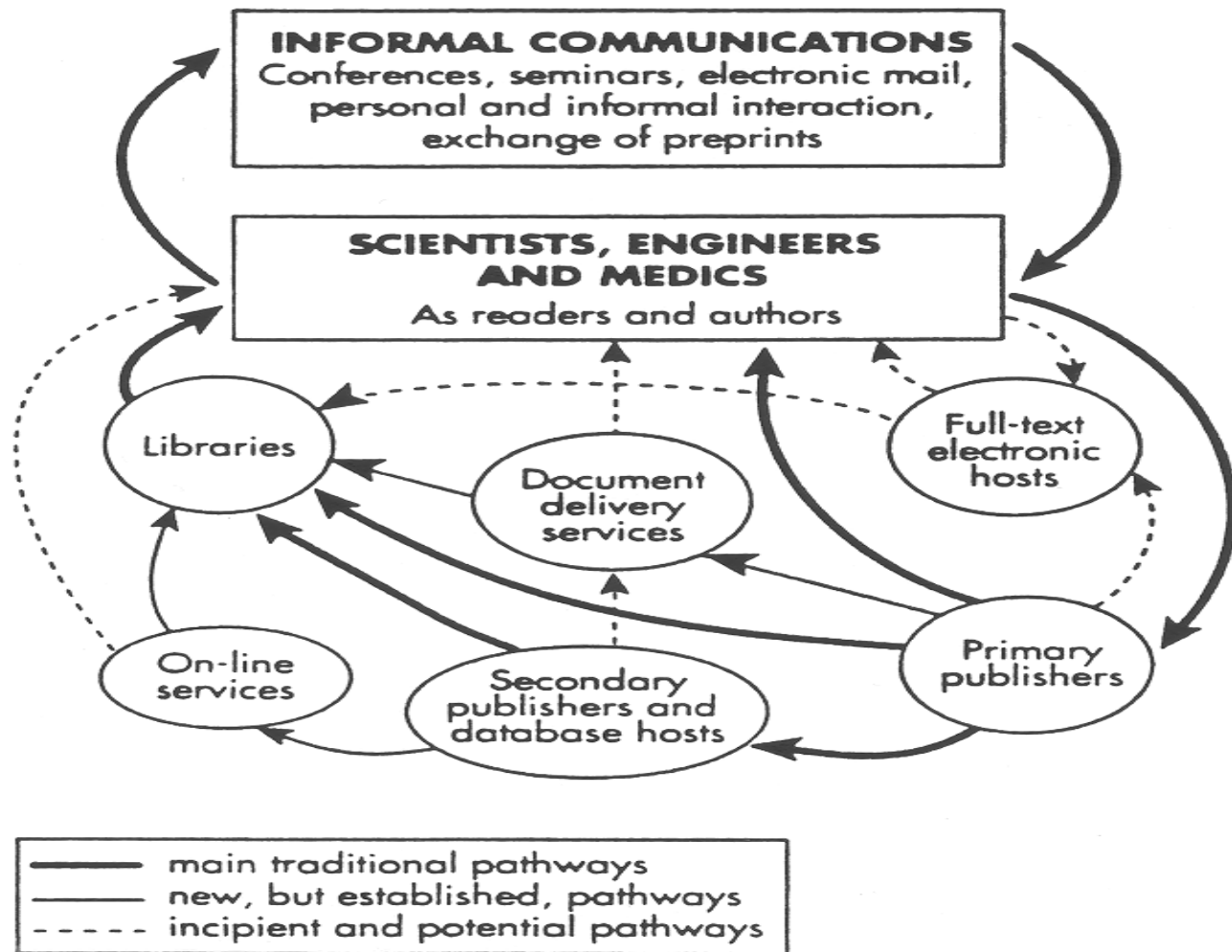
Events & Information

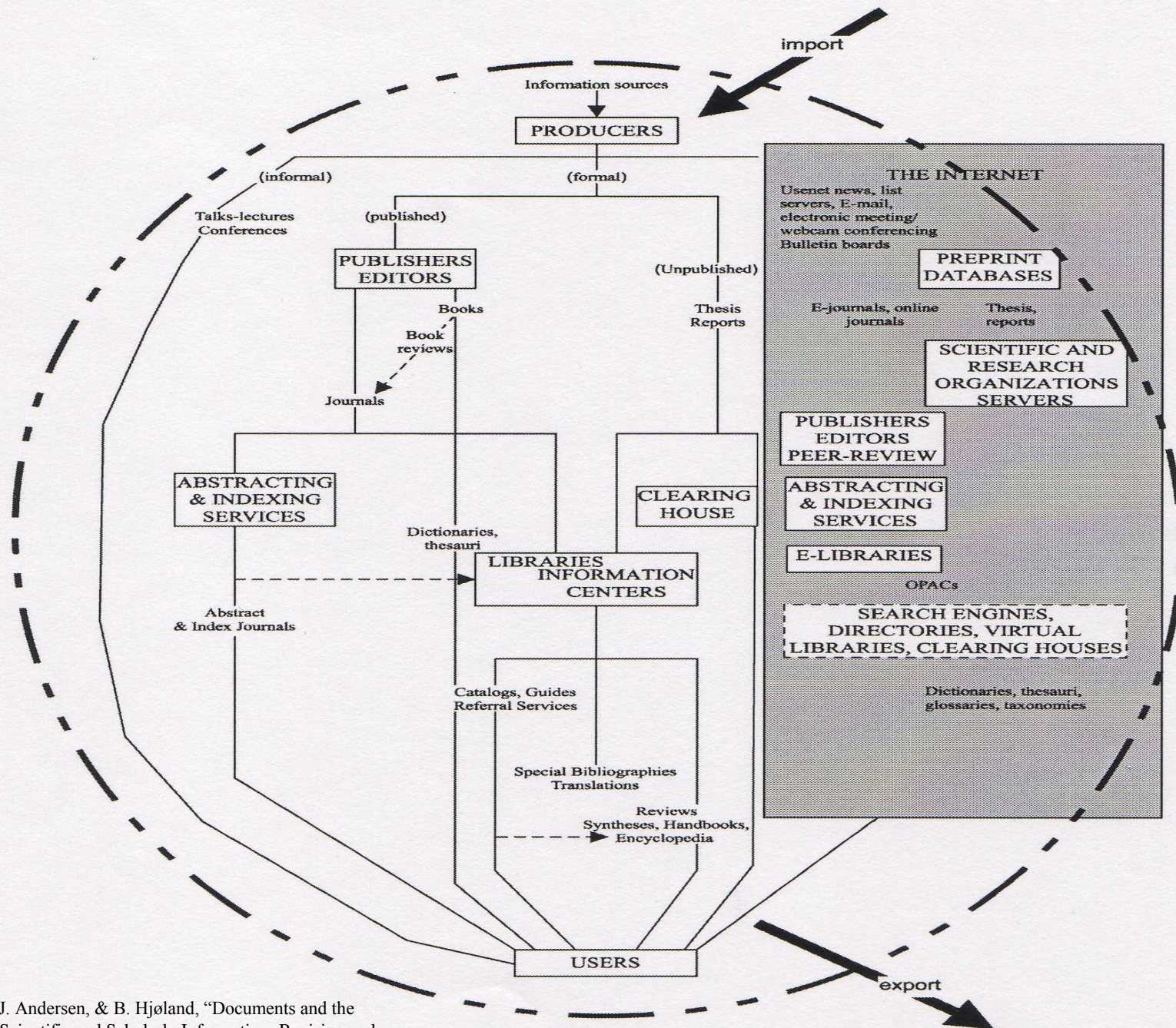
- Sessions and Meetings
 - 34th Session of GESAMP
- Environmental News
- Links
- Influence of Environmental Information**

Distribution of Scientific Information (Urquhart, 1948)



Pathways of Information Flow (Royal Society, 1993)





“In-Depth” Case Studies

- Environment Canada
- Gulf of Maine Council on the Marine Environment (GOMC)
- Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection (GESAMP)

Research Methodology

Suite of methodologies

- ✕ Citation analysis
- ✕ Content analysis of policy documents
- ✕ Interviews with key informants
- ✕ Surveys

Acknowledgements

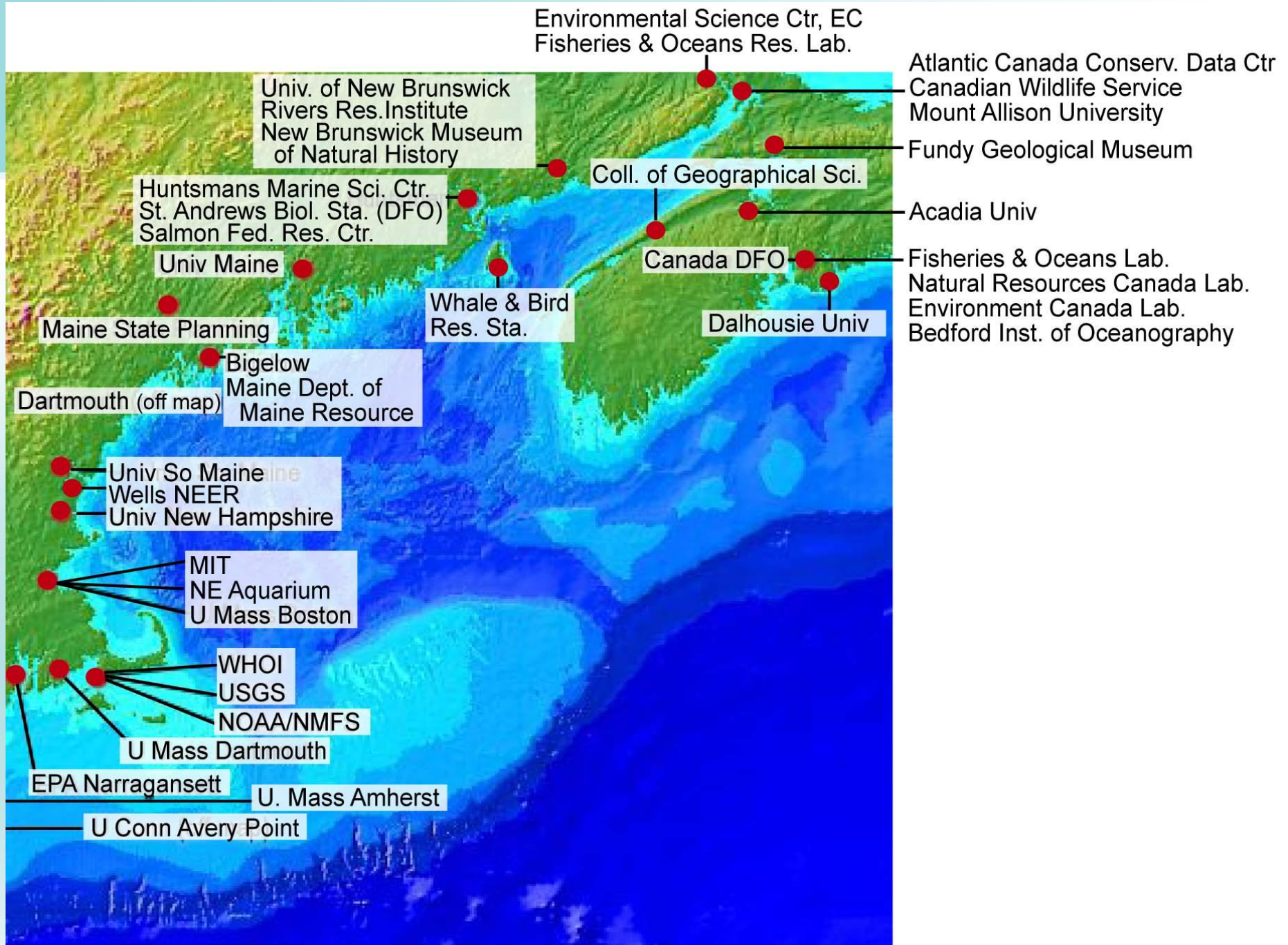
Our research has benefited from financial support or assistance from:

- ✕ GESAMP
- ✕ Gulf of Maine Council on the Marine Environment
- ✕ Environment Canada
- ✕ School of Information Management and Faculty of Management
- ✕ Patricia Hinch, N. S. Dept. of the Environment & Labour
- ✕ Michele Tremblay, David Keeley, & Peter Taylor, GOMC
- ✕ Librarians in the Gulf of Maine region
- ✕ SSHRC



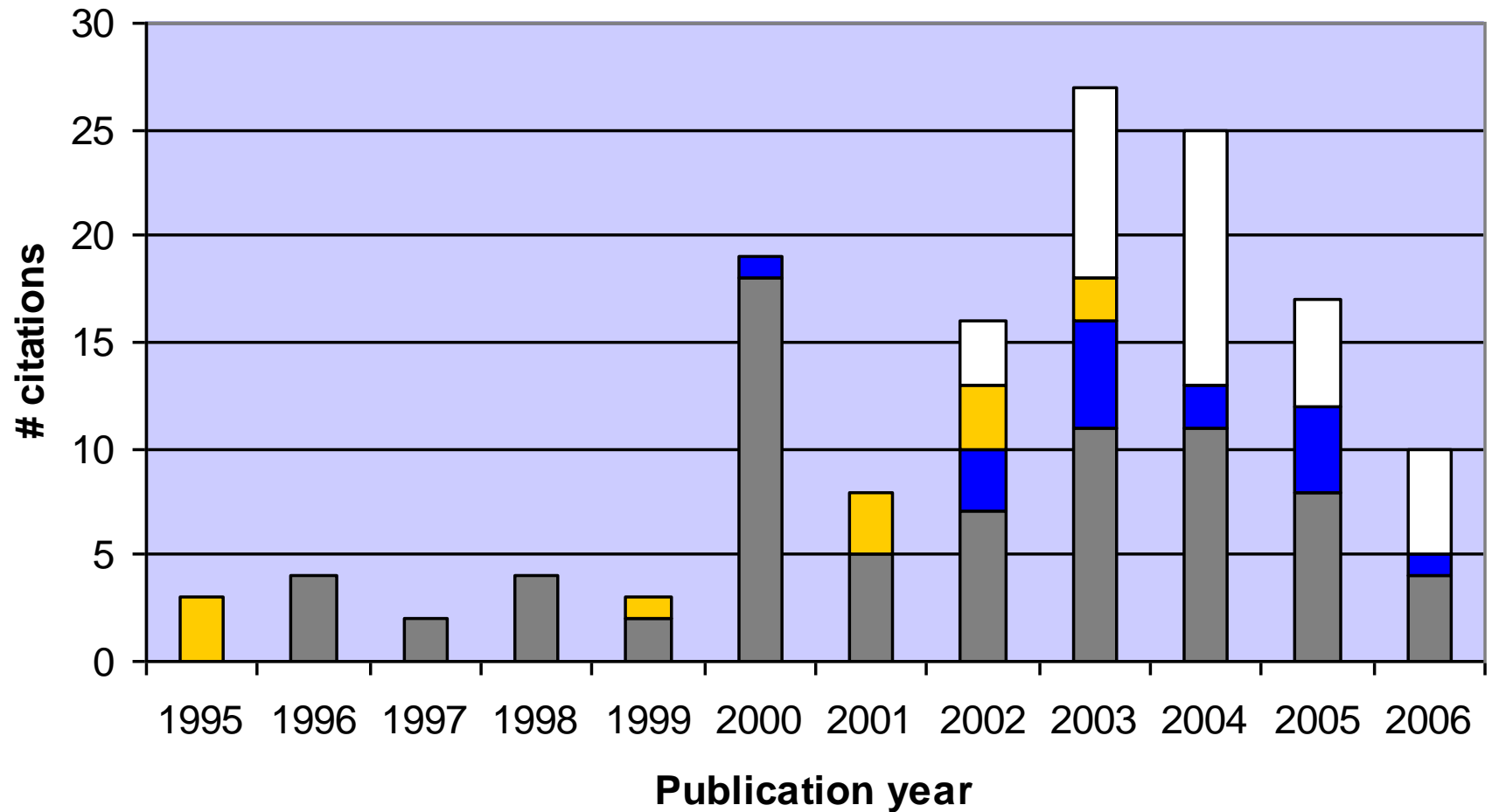
Questions Guiding Next Initiatives

- Do publication characteristics of grey literature influence its discovery, use, & impact?
- In public policy settings are research reports published as grey literature perceived differently than research published in peer-reviewed journals?
- How should the impact of grey literature be measured and assessed?
- How should publications be designed for effective discovery and ultimately for impact?



Citations to GOMC Gulfwatch publications

■ grey cites grey ■ grey cites white ■ White cites grey □ white cites white



3*gesamp* in cited work

ISI Web of Knowledge [v1.2] - Mozilla

File Edit View Go Bookmarks Tools Window Help

http://80-isi4.isiknowledge.com.ezproxy.library.dal.ca/portal.cgi/wos/ Search

Home Bookmarks The Mozilla Orga... Latest Builds

ISI Web of KNOWLEDGESM ISI Web of Science GO Log out Home

SELECT PAGE or select specific references from list.

SEARCH to find articles that cite selected references.

References 1 -- 18

Navigation: [1]

	Hits	Cited Author	Cited Work	Volume	Page	Year
<input checked="" type="checkbox"/>	1	*GESAMP	30 GESAMP			1986
<input checked="" type="checkbox"/>	1	*GESAMP	30 GESAMP IMO FAO UN			1986
<input checked="" type="checkbox"/>	2	*GESAMP	32 GESAMP			1987
<input checked="" type="checkbox"/>	1	*GESAMP	32 GESAMP UNESCO			1987
<input checked="" type="checkbox"/>	1	*GESAMP	34 GESAMP			1990
<input checked="" type="checkbox"/>	1	*GESAMP	35 GESAMP IN MAR ORG			1989
<input checked="" type="checkbox"/>	1	*GESAMP	35 GESAMP INT MAR OR		44	1989
<input checked="" type="checkbox"/>	3	*GESAMP	38 GESAMP			1989
<input checked="" type="checkbox"/>	1	*GESAMP	38 GESAMP IMO FAO UN			1989
<input checked="" type="checkbox"/>	1	*GESAMP	38 GESAMP WORLD MET			1989
<input checked="" type="checkbox"/>	1	*GESAMP	39 GESAMP			1990
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<input checked="" type="checkbox"/>	1	*GESAMP IMO FOA UN	30 GESAMP			1986
<input checked="" type="checkbox"/>	1	*IMO FAO UNESCO WM	39 GESAMP IMOF AOUNES			1990

Done

Publishing Recommendations Sent to GESAMP

- Emphasize the acronym GESAMP
- Establish a standardized name for the series
- Ensure that each title is consistently applied
- Obtain a new ISSN with each name change
- Always include an ISBN, along with the ISSN
- Distribute reports widely
- Send copies of reports to indexing agencies

Publishing Recommendations Sent to GESAMP (cont.)

- Outline the peer review process in each report
- Consider establishing two series
- Give greater attention to translation of the reports
- Keep the website up to date
- Continue creating digital versions of older reports
- Centralize publication and distribution of the reports

Ten Most Frequently Cited GESAMP Publications

Report Title Versions ^a and Publication Dates	Total Citations
<i>The Atmospheric Input of Trace Species to the World Ocean</i> A: # 38 (1989), B: # 119 (1990), C: Duce et al. (1991)	410
<i>The State of the Marine Environment</i> A: # 39 (1990), B: # 115 (1990) (also in Spanish), C: GESAMP (1991b) ²	165
<i>Technical Annexes to the Report of the State of the Marine Environment</i> B: # 114 (1990), C: Fowler (1990)	108
<i>The Sea-Surface Microlayer and its Role in Global Change</i> A: #59 (1995), C: Liss & Duce (1997)	76
<i>Land/Sea Boundary Flux of Contaminants: Contributions from Rivers</i> A: # 32 (1987)	60
<i>The Review of the Health of the Oceans</i> A: # 15 (1982), B: # 16 (1982)	47
<i>Impact of Oil on the Marine Environment</i> A: # 6 (1977)	44
<i>Review of Potentially Harmful Substances: Arsenic, Mercury and Selenium</i> ² A: # 28 (1986), B: # 92 (1988)	43
<i>Impact of Oil and Related Chemicals on the Marine Environment</i> A: # 50 (1993)	42
<i>Global Strategies for Marine Environmental Protection</i> A: # 45 (1991), C: Gray et al. (1991)	42

“Grey” Features of GESAMP Reports and Studies

Inconsistencies in...

- ✗ Corporate author name, series title, report title
- ✗ Inclusion of ISSN, ISBN, date
- ✗ Indexing

Eight publishing agencies

- ✗ Two Report # “11”s
- ✗ Some reports reprinted in other series

Difficult to locate in catalogues and indexes

Most Highly Cited Reports

Title	Year	# citations GESAMP version	# citations UNEP version	# citations book / journal	# citations draft version	Total # citations	Total # citing papers
The Atmospheric Input of Trace Species to the World Ocean	1989 1990 1991	76	3	324	7	410	394
The State of the Marine Environment	1990 1990 1991	54	85	26		165	164
Technical Annexes to the Report on the State of the Marine Environment	1990		11	67		78	78
Land/Sea Boundary Flux of Contaminants: Contribution from Rivers	1987	57			3	60	60
The Review of the Health of the Oceans	1982 1982	20	27			47	47
Impact of Oil on the Marine Environment	1977	44				44	44
Review of Potentially Harmful Substances: Arsenic, Mercury and Selenium	1986 1988	36	7			43	43

Individuals Who Cite GESAMP Most Often

Name	Role	# Citations	# Papers	# Items
P. G. Wells	GESAMP chair 1999 - 2000, Working group chair	48	11	28
T. Hofer	Working group member	40	7	20
R. A. Duce	GESAMP chair 2001 - 2002, Working group chair	32	15	19
J. M. Bowers	GESAMP member, Working group member	23	9	14
J. S. Gray	GESAMP chair 1993 - 1994, Working group chair	23	12	14
S. Boehmer Christiansen	No GESAMP connection	21	5	18
T. D. Jickells	Working group member	21	18	4
R. Arimoto	Working group member	20	17	2

Rationale for the research

Initial motivation: GESAMP was being reviewed by the UN

✗ evidence was needed of the value of its work

Citation indexes are available & can be used to measure impact

✗ indexes primarily identify citations in journal articles

Question: are conclusions drawn about GESAMP's publications representative?

Relevance of grey literature

Grey literature is a large (& growing) but undervalued genre

Citation studies **can** show that grey literature is used

✗ Few have been published

Strategies for locating citations of a complex body of grey literature can be developed (*although strategies themselves can be complex*)

Search Strategies

Cited Author

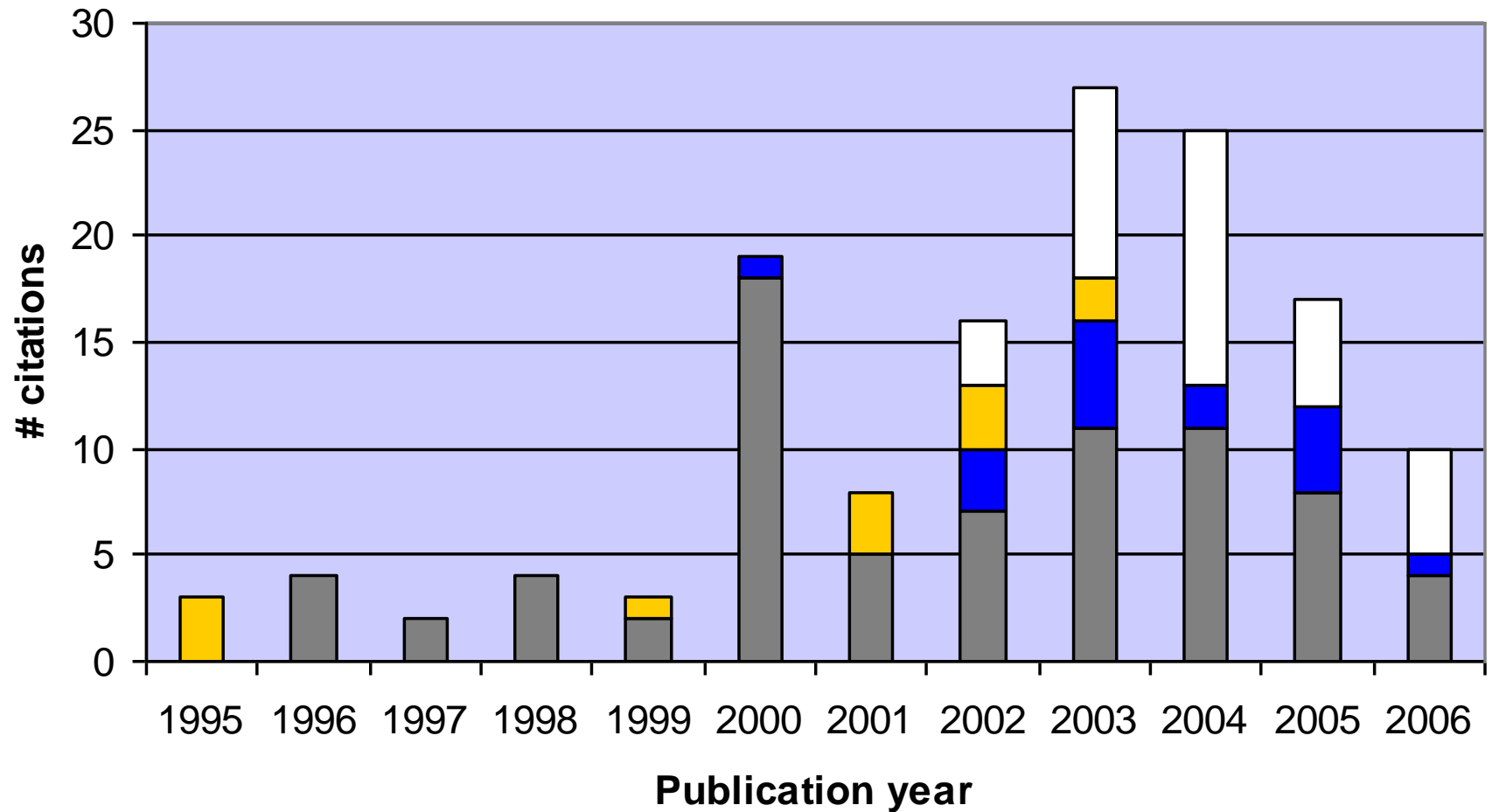
- GESAMP*
- GR* EX* SCI*
- IMCO*FAO*
- IMO*FAO*
- J* GR* EX*
- UN GR* EXP*

Cited Work - Report Titles

- atm* inp* t*
- sta* mar* env*
- sea* mic*
- land*sea* b* OR cont* riv*
- rev* h* oc* OR hlth oc*
- imp* oil mar*
- imp* oil rel*

Citations to GOMC Gulfwatch publications

■ grey cites grey ■ grey cites white ■ White cites grey □ white cites white



Publications Identified

290 publications in database

- Administrative
- Conferences, workshops, summits & forums
- Public education
- Gulfwatch project
- Reports completed by contractors
- Web-based resources

Holdings of GESAMP Publications in Selected Major Marine Science and National Libraries

Library	Holdings of <i>Reports and Studies</i>
National Marine Biological Library, Plymouth, England http://www.mba.ac.uk/nmbli/	Almost complete holdings (two missing reports will be acquired at R. Cordes's suggestion)
Woods Hole Oceanographic Institute Library, Woods Hole, Massachusetts, USA http://www.mblwhoi.org/	Missing five reports, published 1986-1991 (missing reports will be acquired at R. Cordes's suggestion)
Scripps Institution of Oceanography Library, San Diego, California, USA http://scilib.ucsd.edu/sio/	Missing several recent thematic reports, and many session reports
Bedford Institute of Oceanography Library, Halifax, Canada http://www.mar.dfo-mpo.gc.ca/e/library/bio-e.htm	Complete holdings
British Library, London, and Document Supply Centre, Boston Spa, West Yorkshire, England http://www.bl.uk	Complete holdings (Document Supply Centre)
Library of Congress, Washington, DC, USA http://www.loc.gov	Many gaps in holdings
Bibliothèque nationale de France, Paris, France http://www.bnf.fr	Many gaps in holdings

Name Changes

1969 — Joint IMCO/FAO/UNESCO/ WMO Group of Experts on the Scientific Aspects of Marine Pollution

1993 — IMO/FAO/UNESCO-IOC/ WMO/WHO/IAEA/UN/UNEP Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection

GESAMP Citations in Web of Science

Cited Author Field

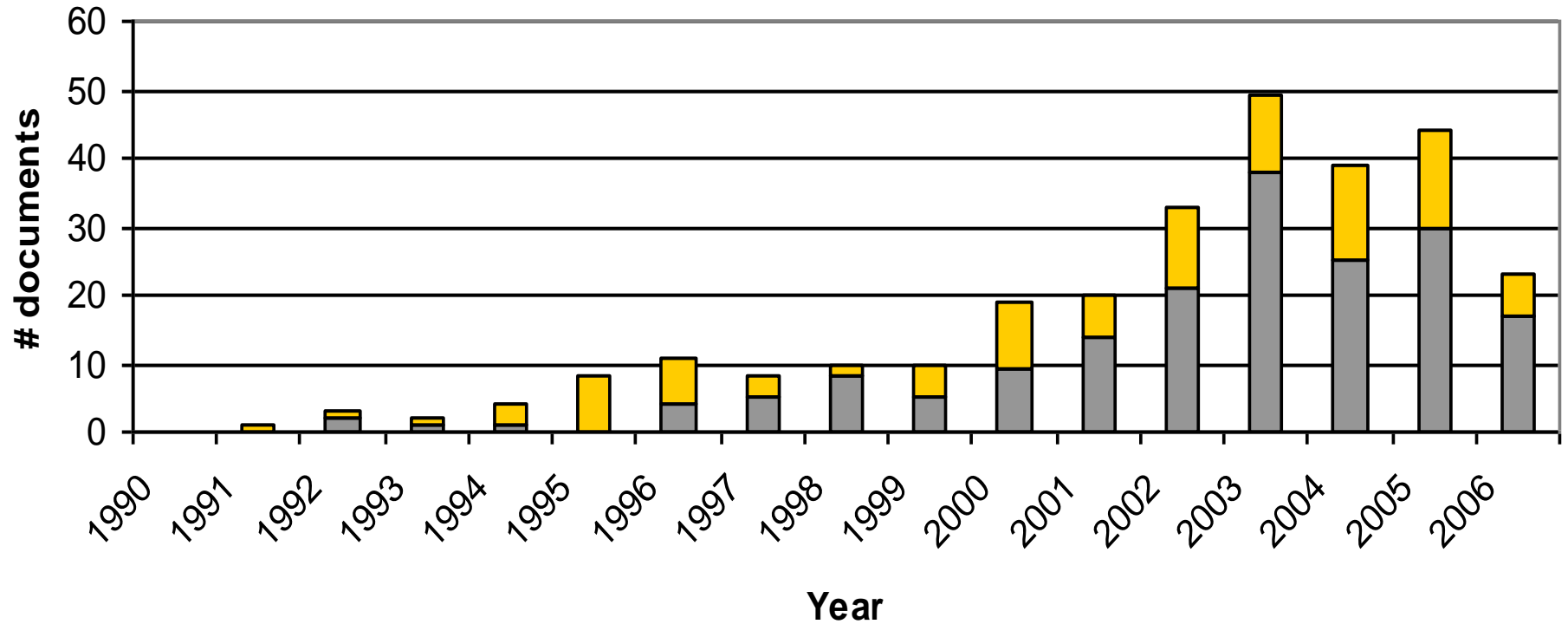
- GESAMP
- JOINT GROUP EXP S
- GROUP EXP SCI ASP
- IMO FAO UNESCO WM
- UNEP

Cited Work Field

- 115 REG SEAS REP STU
- STAT MAR ENV
- IMOFAOUNESCOWMOWHOIA
- REP STUD
- GESAMP REPORTS STUDI

284 Documents Cite GOMC Publications, 1990-2006

■ grey documents [n=180] ■ journals and books [n=104]



Impact of this case study

Citation indexes and other web-based tracking tools can be used to trace citations of a complex body of grey literature

Analysis of GESAMP publications shows influence / citations

- ✗** over many years after publication
- ✗** mostly by people not directly connected to GESAMP
- ✗** in environmental science journals & a variety of other disciplines

Our analysis contributed to the GESAMP review process

Citing Journals

311 different journals in 84 subject areas

Top five

- Environmental Sciences
- Marine & Freshwater Biology
- Oceanography
- Geosciences, Interdisciplinary
- Meteorology & Atmospheric Sciences

Core Citing Journals*

	# citations	# papers
Marine Pollution Bulletin	185	135
Science of the Total Environment	56	37
Marine Chemistry	46	39
Marine Policy	42	22
Journal of Geophysical Research – Atmospheres	40	40
Atmospheric Environment	39	38
Ocean & Coastal Management	38	19
Marine Ecology – Progress Series	31	30

*477 citations in 360 papers

Promoting Cooperation
to Maintain and Enhance
Environmental Quality

Gulf of Maine Times

SPRING 2006

VOLUME 10, NUMBER 1

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Credo for surfers: outreach and activism

By Lisa Capone

It's not surprising that someone who grew up amid the waves of Massachusetts's North Shore got hooked on surfing early. What comes as a revelation, though, at least to someone outside surfing circles, is the way Jamie Hosker talks about his passion. No "knarly waves" or "dude" references from this attorney-turned-shopkeeper. Instead, Hosker talks earnestly about issues he says are near and dear to his and every surfer's heart: water quality, beach access and political activism on behalf of the ocean. "I think more than any other sport, surfing creates environmental activists," Hosker said. "You are embedded in the environment you are playing in. You swallow it, it's in your ears, you're above it, you're below it."



Jamie Hosker rides the wintry waves. Hosker heads a chapter of Surfrider Foundation, a national group dedicated to environmental protection.

PHOTO: JP HALEY



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via e-mail contact us
at:
[editor@
gulfofmaine.org](mailto:editor@gulfofmaine.org)

Google Search for Links

GESAMP

gesamp.imo.org /link — 27 (144) links

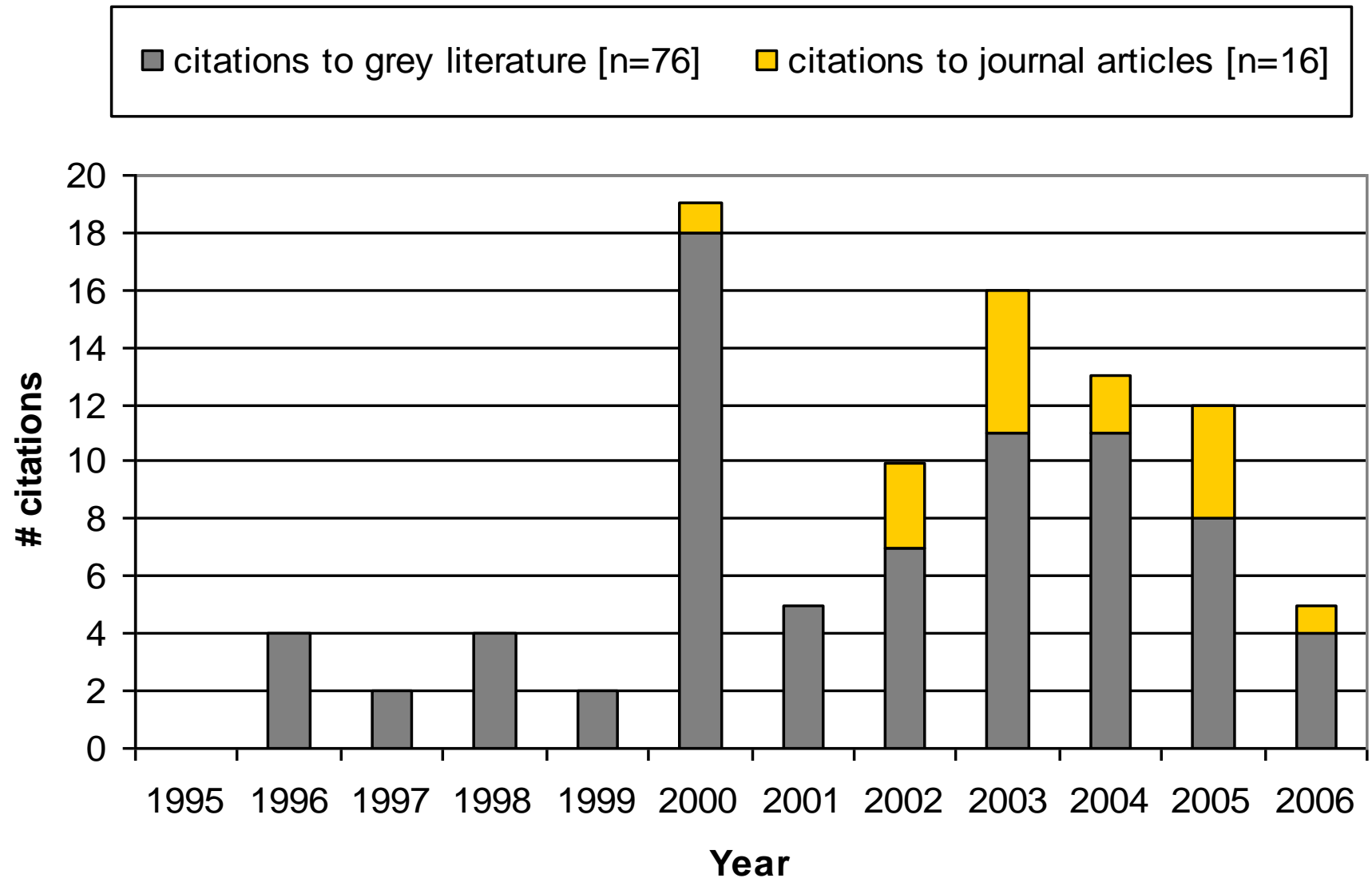
gesamp.imo.org /related — 52 (198) links

GOMC

gulfofmaine.org /link —

gulfofmaine.org /related —

GOMC Gulfwatch: 92 Citations in Grey Literature



GOMC Gulfwatch: 46 Citations in journals

