

Information Skills Refresher 3:
Dissertation research – going
further
(Looking for journal articles)

Susan McCourt, Library

May 2020



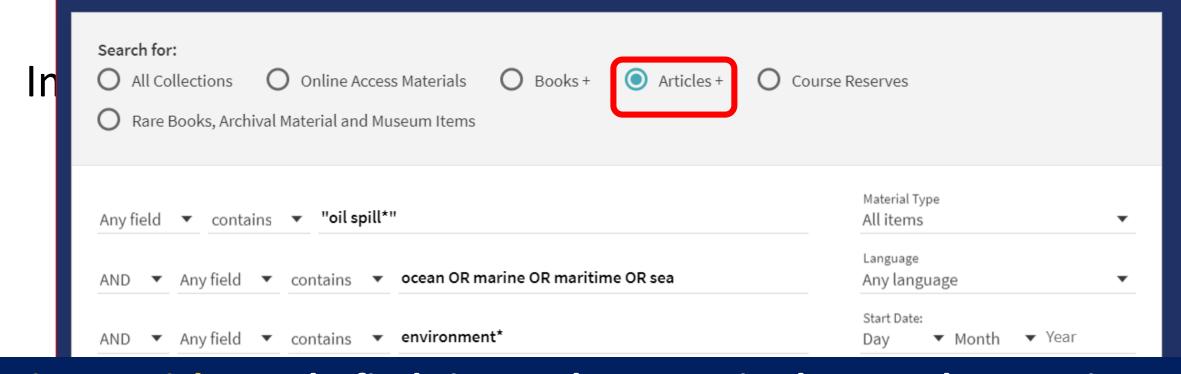
# Steps to Finding Reliable Information



- Step 1: Get ready to manage the information you find
- Step 2: Plan your search
- Step 3: What sort of information sources?
- Step 4: Look for books use Primo and ebook collections
- Step 5: Look for research level material, e.g. journal articles. Use the Find Databases option in Primo to identify relevant databases, then link and search
- Step 6: Look for support materials Use Google or other search engines
- Step 7: Keep track of your references, avoid plagiarism

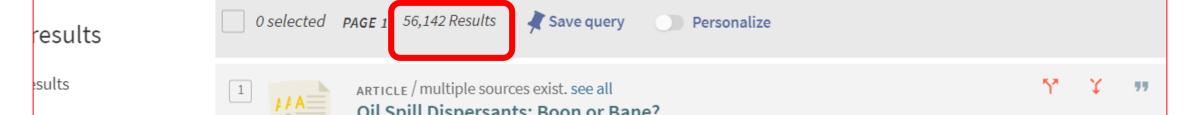
In all processes: be aware of copyright and the need to avoid plagiarism





Primo Articles+ tab: finds items that contain the search terms in records of journal articles from a wide range of databases

TIP: Not powerful enough for you. OK for quick checks, but use individual databases for more extensive and in-depth searching



# Why use databases?



- Primo Articles+: good for many undergraduates, good for quick checks on specific items, but search options not as powerful as provided by database providers
- Search engines: millions of results, may need to spend a lot of time evaluating them
- Database what has been published
  - Essential for access to material published in journal/periodicals and at conferences
  - Contain academic and scholarly material
  - Journal articles refereed research from institutions worldwide
  - Content is authoritative
  - Referring to published research literature demonstrates that you are on top of your subject

# Important databases

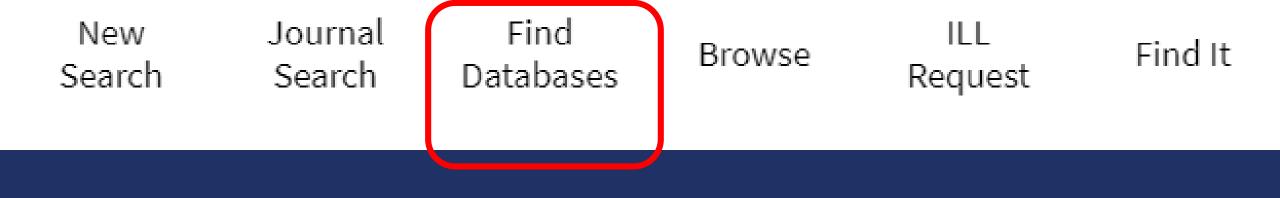


- Scopus and Web of Science are the biggest and broadest databases available.
   Bibliographic with links via Find It! to electronic books and journals that we pay for
- Specialist:
  - Medline is the largest medical database (the free version is called PubMed, but it isn't as powerful as Medline)
  - ABI Inform and Econlit are specialist business, management and economics databases
  - ATLA is the biggest religion database
  - LION database useful for topics related to English
  - LexisLibrary and Westlaw are core databases in law
  - **IEEE Xplore** for engineering & computer science
  - OnePetro for oil related topics (SPE/OTC papers)
  - Reaxys specialist chemistry database
- JSTOR full text database extremely useful for older material (covers most subject areas except Engineering)

### Primo > Find Databases



- Portal to all our e-resources (databases, ebook collections etc).
  - Identifies e-resources relevant to your subject
  - Easy to link out to them for searching
- Information available:
  - Description of the database
  - Authentication route (IP address or Shibboleth/UK Federation)
- Use to identify databases you then link to each database to search it



# Use the Primo Find Databases option to:

- identify databases in a subject area
- link through to individual databases

We used this in an earlier session to link through to ebook collections

New Search Journal Search Find Databases

Browse

ILL Request

Find It

Database Search

Enter database name



### Databases by category

- > Access Route
- All Ebook Collections
- > All General Resources
- > Arts and Humanities
- > Engineering
- > Law
- > Life Sciences
- Medicine and Health Sciences
- > Physical Sciences
- > Social Sciences

### Search for databases

Use the following options to look for, and link to, databases:

- Enter database titles in the search box.
- Browse databases by category.

### Databases by category

- > Access Route
- All Ebook Collections
- > All General Resources
- Arts and Humanities
- > Engineering
- > Law
- > Life Sciences
- Medicine and Health Sciences
- Physical Sciences

All Key Databases

Archaeology

Chemistry

Computing

Geography

Geology

Land Economy

Maths

Physics

Social Sciences

**ACM Digital Library** 

Digital Library service from the Association for Computing Machinery. Includes bibliographic information, abstracts, reviews and the full text for articles published in ACM journals and proceedings since its founding in 1947. Selected works published by affiliated organisations are also available.

Ø Available Online →

ACS Publications

Full text electronic access to journals produced by the American Chemical Society (ACS). Contains hundreds of thousands of journal articles. Searches can be carried out across in-press items and published articles. Use Search Tips for advice on input of Author names - case sensitive.

Agricultural & Environmental Science Collection (ProQuest)

The Agricultural & Environmental Science Collection contains titles from around the world, including scholarly journals, trade and industry journals, magazines, technical reports, conference proceedings, and government publications. It also includes specialized, editorially-curated abstract & indexing resources as well as the renowned AGRICOLA and TOXLINE databases and content previously available in ESPM (Environmental Sciences and Pollution Management) and Environmental Impact Statements (EIS).

Ø Available Online >

Anthropological Index Online

Index to periodical articles in all branches of anthropology, based on the journal holdings of the Anthropology Library at the British Museum (Museum of Mankind).

Ø Available Online →

Anthropology Plus (EBSCO)

Anthropology Plus brings together into one resource the highly respected Anthropological Literature from Harvard University and Anthropological Index, Royal Anthropological Institute from the UK. Anthropology Plus provides extensive worldwide indexing of journal articles, reports, commentaries, edited works, and obituaries in the fields of social, cultural, physical, biological, and linguistic anthropology, ethnology, archaeology, folklore, material culture, and interdisciplinary studies. The index offers excellent coverage of all core periodicals in the field in addition to local and lesser-known journals. Coverage is from the late 19th century to the present.

All Ebook Collections

> All General Resources

Arts and Humanities

> Engineering

Law

Life Sciences

> Medicine and Health Sciences

Physical Sciences

**All Key Databases** 

Archaeology

Chemistry

Computing

Geography

Geology

Land Economy

Maths

**Physics** 

#### 4 databases found for All Key Databases

OnePetro (SPE)

OnePetro is an online library that provides a simple way to search for and access a broad range of technical literature related to the oil and gas exploration and production industry. The following organisations have their technical documents available through OnePetro: American Petroleum Institute (API), American Rock Mechanics Association (ARMA), American Society of Safety Engineers (ASSE), International Society for Rock Mechanics (ISRM), Offshore Technology Conference (OTC), NACE International (corrosion engineers), Petroleum Society of Canada (PETSOC), Society of Petroleum Engineers (SPE), Society of Petrophysicists and Well Log Analysts (SPWLA), The Society of Underwater Technology (SUT), World Petroleum Council (WPC).

Ø Available Online →

Reaxys

Reaxys contains an extensive repository of experimentally validated chemical data including structures, reactions (including multi-step reactions) and physical properties. Covers organic, inorganic and organometallic structures. Reaxys is the replacement service for the CrossFire Beilstein and Gmelin resource.

Ø Available Online →

Scopus (Elsevier)

Scopus is one of the largest multidisciplinary databases that we have access to. Subject coverage is scientific, medical, technical and social science. Scopus contains more than 70 million records covering articles from peer-reviewed titles from 20,000 international publishers. More than 4,000 open access journals are included. References go back to 1996. Records go back to 1788.

Ø Available Online →

Web of Science (Clarivate)

Web of Science (WoS) Core Collection contains more than 70 million records covering material from over 20,000 journals, books and conference proceedings. The Collection comprises three large multidisciplinary databases. They are Science Citation Index (1900-current), Social Sciences Citation Index (1900-current) and Arts & Humanities Citation Index (1975-current). Each of the databases fully indexes core journals in its general area, including research and scholarly articles, book and other reviews, editorials, letters and biographical items. WoS Core Collection also contains the following: the Conference Proceedings Citation Index for Science (1990-current), the Conference Proceedings Citation Index for Science (2005-current), the Book Citation Index for Social Sciences & Humanities (1990-current), When searching directly (not via Primo) the databases can be searched singly or in any

### View Online

### Full text availability

### Scopus (Elsevier)

Online version available for university members only. This requires an institutional login off-campus

Ø

### Details

Title Scopus (Elsevier)

Summary Scopus is one of the largest multidisciplinary databases that we have access to. Subject coverage is scientific,

medical, technical and social science. Scopus contains more than 70 million records covering articles from peer-

reviewed titles from 20,000 international publishers. More than 4,000 open access journals are included.

References go back to 1996. Records go back to 1788.

Publication coverage: 1788 - current.

Publisher Elsevier

Language English

**Shelfmark** e Database

Source Library Catalog

### Search relevant databases



- Scopus and Web of Science
  - For Law Westlaw and Lexis
  - For Medicine and medical Sciences Medline
- Large databases covering science, technology, medicine and social science (& arts/humanities Web of Science)
  - Over 60 million records, some back to mid 1820s
  - Mainly research papers (journal articles, conference papers) published by academics
- Easy to use
  - Simple search rules
  - Links full text and library catalogue
  - Produce simple formatted bibliographies and direct export to RefWorks
  - Lots of help available
- Off campus access: Shibboleth / UK Federation / Institutional login process

### Library Information Skills Workshop: Designing your Search Strategy - Search grid/matrix

Try brainstorming to analyse your tonic. In the blank hav below write any words in brases and authors that come to mind regarding your assignment. The

words don't have to be in any order. Think about acronyms, singular and plural forms, word endings and spelling differences, e.g. US and UK English.						

Now group your terms together. Look at the most important idea in your assignment = concept/idea 1. Do you have more than one word/phrase for that idea e.g. oil OR gas OR petroleum? Place the words in the 1st row of the grid/matrix below. What is your second most important concept/idea? Do you have more than one word/phrase for that idea? Write them in the 2nd row. If you have an additional concept/idea, write words/phrases for this in the 3rd row. Now apply the search rules (e.g. truncation symbol; "quotation marks" for phrases - where applicable) for the database you wish to search.

Concepts	Alternative keywords/phrases				
Concept/Idea 1	OR	OR			
AND					
Concept/Idea 2	OR	OR			
AND					
Concept/Idea 3	OR	OR			

You are now ready to construct your "search string" in your selected database using the Boolean operators **OR** and **AND**. Many databases use a search interface which where you only need to type the **OR** operator within the search line/row as the **AND** operator between lines is already assumed (it is the <u>default</u> setting – do not change it!)

You do not need to fill every box or line however for some assignments you may need a grid that is greater than 3 x 3. The same process applies no matter the grid/matrix size: words/phrases on same line/row = same idea/concept and remember to apply the search rules (e.g. truncation symbol; "quotation marks" for phrases - where applicable) for the database you wish to search.

# Use your search grid

Concepts		Alteri	native keywords		
Idea 1	"oil spill*"	OR			
AND					
Idea 2	sea*	OR	ocean*	OR	marine
AND					
Idea 3	environment*	OR			
AND					
Idea 4	whale*	OR	do	lphin*	



Search Sources Lists SciVal









### Document search

Compare sources >



- Single search box = add more to replicate your search grid
- Different ideas on different lines







Compare sour

## Document search



Remember to apply the correct search rules – see our worksheets



Search Sources Lists SciVal 7





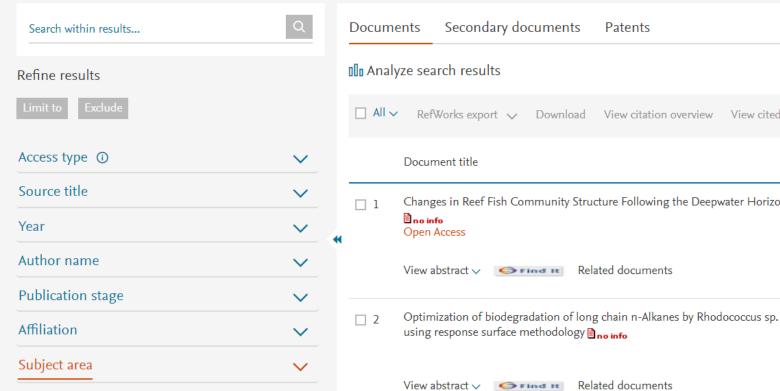


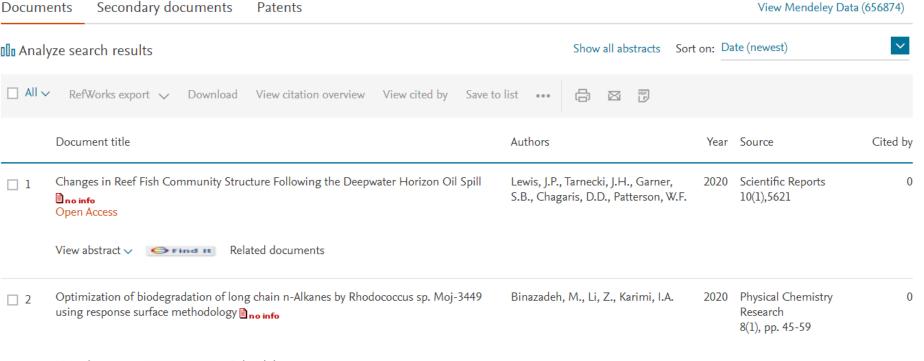


### 12,489 document results

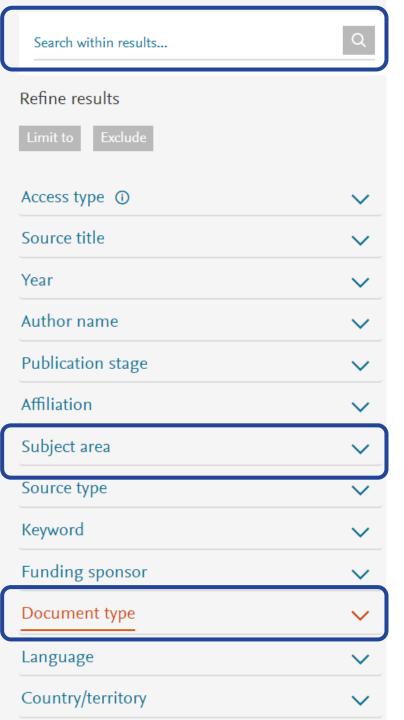
(TITLE-ABS-KEY ("oil spill\*") AND TITLE-ABS-KEY (sea OR ocean\* OR marine))







Do not worry if you get a large number of results. These can be refined and narrowed



# Refine/Limit/Narrow your results

- Add extra search terms a third idea, a fourth idea?
  - Use your planning grid
  - Skim read some of your results to find additional search terms (keywords)
- Look at Limit/Refine options offered by the database
  - By Document type e.g. Review articles
  - By Subject area

# Sort your results



- Don't rely on the default (recent first)
- Up-to-date is very useful, but others can be helpful too:
  - Cited by (highest)
  - Relevance



# When evaluating your results



- Skim and scan results
  - Read the abstracts
  - Click on title to move through to more detailed record (with extra keywords)
  - Use Find It! option to link to full-text (where available)
  - Keep a note of relevant material that is only available in paper format
  - Adjust and improve your keywords (write them down!)
- Mark relevant references
  - Send/export to RefWorks (or similar)
- Set up Alerts get new records sent to you
- READ WHAT YOU'VE FOUND...

Docun	nents	Secondary documents	Patents						
00 Ana	ılyze sea	arch results		9	Show all abstracts	Sort on:	Relevan	ice	~
□ All	∨ Ref	Works export 🗸 Download	View citation overview View ci	cited by	Save to list •••		⊠ į	POF	
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<u> </u>	(1990-20	f historical unusual mortality even 109): Providing context for the mu UME declared in 2010 cess	•	E	Litz, J.A., Baran, M.A Bowen-Stevens, S.R. Worthy, G.A.J., Rowle	, (),	2014	Diseases of Aquatic Organisms 112(2), pp. 161-175	33
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<u> </u>	Environn	nental effects of the Deepwater H	orizon oil spill: A review	E	Beyer, J., Trannum, F Bakke, T., Hodson, P Collier, T.K.		2016	Marine Pollution Bulletin 110(1), pp. 28-51	164
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<u> </u>	Key taxa	in food web responses to stressor	s: the Deepwater Horizon oil spill	(	McCann, M.J., Able, Christian, R.R., (), F B.J., Ziegler, S.L.		2017	Frontiers in Ecology and the Environment 15(3), pp. 142-149	20
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#### Marine Pollution Bulletin

Volume 110, Issue 1, 15 September 2016, Pages 28-51

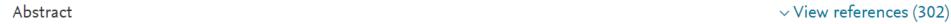
### Environmental effects of the Deepwater Horizon oil spill: A review (Review) RefWorks

Beyer, J.a, Trannum, H.C.a, Bakke, T.a, Hodson, P.V.b, Collier, T.K.c 2

#### Save all to author list

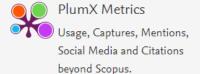
<sup>a</sup>NIVA — Norwegian Institute for Water Research, NO-0349, Oslo, Norway

<sup>&</sup>lt;sup>c</sup>Delta Independent Science Board, 980 Ninth Street, Suite 1500, Sacramento, CA 95814, United States



The Deepwater Horizon oil spill constituted an ecosystem-level injury in the northern Gulf of Mexico. Much oil spread at 1100–1300 m depth, contaminating and affecting deepwater habitats. Factors such as oil-biodegradation, ocean currents and response measures (dispersants, burning) reduced coastal oiling. Still, > 2100 km of shoreline and many coastal habitats were affected. Research demonstrates that oiling caused a wide range of biological effects, although worst-case impact scenarios did not materialize. Biomarkers in individual organisms were more informative about oiling stress than population and community indices. Salt marshes and seabird populations were hard hit, but were also quite resilient to oiling effects. Monitoring demonstrated little contamination of seafood. Certain impacts are still understudied, such as effects on seagrass communities. Concerns of long-term impacts remain for large fish species, deep-sea corals, sea turtles and cetaceans. These species and their habitats should continue to receive attention (monitoring and research) for years to come. © 2016 Elsevier Ltd





### Cited by 164 documents

Teratogenic effects of environmentally relevant concentrations of phenanthrene on the early development of marine medaka (Oryzia melastigma)

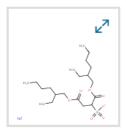
Zheng, Y., Li, Y., Yue, Z. (2020) Chemosphere

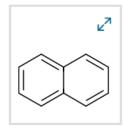
Acute exposure to oil induces age and speciesspecific transcriptional responses in embryolarval estuarine fish

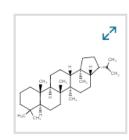
<sup>&</sup>lt;sup>b</sup>School of Environmental Studies, Queen's University, K7L 3N6, Kingston, Ontario, Canada

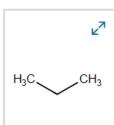
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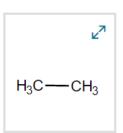
### **%** Substances











### Author keywords

Deepwater Horizon oil spill Environmental effects Review

### Indexed keywords

**EMTREE** drug terms: water pollutant

EMTREE medical terms: chemical accident climate ecosystem Gulf of Mexico oil spill water pollutant animal

wetland

MeSH: Chemical Hazard Release Gulf of Mexico Petroleum Pollution Water Pollutants, Chemical Animals Climate Ecosystem Wetlands

### Chemicals and CAS Registry Numbers:

Water Pollutants, Chemical

(2020) Science of the Total Environment

View all 164 citing documents

Inform me when this document is cited in Scopus:

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### Related research data (?)



The Utility of Stable and Radioisotopes in Fish Tissues as Biogeochemical Tracers of Marine Oil Spill Food Web Effects

Patterson III, William F., et al Springer International Publishing

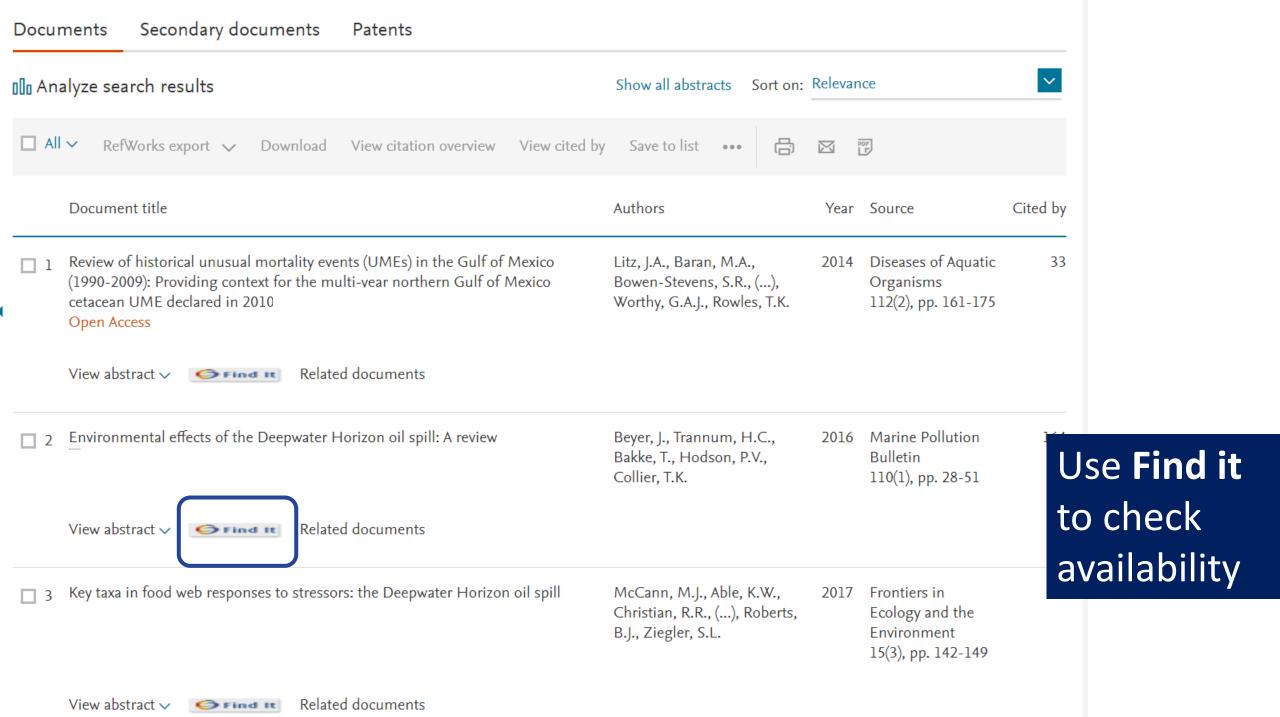
Data linking provided by OpenAIRE's Scholexplorer OpenAIRE

### Related documents

Fallout plume of submerged oil from Deepwater Horizon

Valentine, D.L., Fisher, G.B., Bagby, S.C. (2014) Proceedings of the National Academy of Sciences of the United States of America

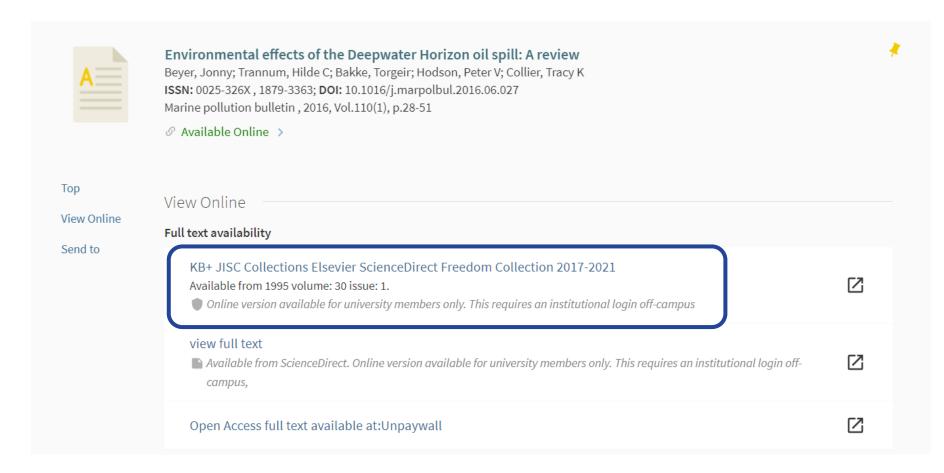
Microbial response to the MC 252 oil and











# Options to link to full-text content (where we have paid for it)



Share

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Search ScienceDirect



#### Outline

**ScienceDirect** 

Highlights

Abstract

Graphical abstract

Keywords

- 1. Introduction
- 2. Environmental research on Deepwater Horizon oil spill
- 3. Overall discussion
- 4. Summary and conclusion

Acknowledgement

References

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### Figures (4)











#### Marine Pollution Bulletin

Volume 110, Issue 1, 15 September 2016, Pages 28-51



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Citing articles (164)

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Environmental effects of the Deepwater Horizon oil spill: A review

Jonny Beyer <sup>a</sup> A, Hilde C. Trannum <sup>a</sup>, Torgeir Bakke <sup>a</sup>, Peter V. Hodson <sup>b</sup>, Tracy K. Collier <sup>c</sup>

■ Show more

https://doi.org/10.1016/j.marpolbul.2016.06.027

Highlights

- The environmental fate of spilled oil and gas
- The biological/ecotoxicological effects in offshore ecosystems
- The effects in nearshore and coastal sites
- . The effects on long-lived marine organisms



Contents lists available at ScienceDirect

### Marine Pollution Bulletin

journal homepage: www.elsevier.com/locate/marpolbul



#### Review

### Environmental effects of the Deepwater Horizon oil spill: A review



Jonny Beyer a,\*, Hilde C. Trannum a, Torgeir Bakke a, Peter V. Hodson b, Tracy K. Collier c

- a NIVA Norwegian Institute for Water Research, NO-0349, Oslo, Norway
- b School of Environmental Studies, Queen's University, Kingston, Ontario, K7L 3N6, Canada
- <sup>c</sup> Delta Independent Science Board, 980 Ninth Street, Suite 1500, Sacramento, CA 95814, USA

#### ARTICLE INFO

Article history: Received 22 July 2015 Received in revised form 21 April 2016 Accepted 5 June 2016 Available online 11 June 2016

Keywords: Deepwater Horizon oil spill Environmental effects Review

#### ABSTRACT

The Deepwater Horizon oil spill constituted an ecosystem-level injury in the northern Gulf of Mexico. Much oil spread at 1100–1300 m depth, contaminating and affecting deepwater habitats. Factors such as oil-biodegradation, ocean currents and response measures (dispersants, burning) reduced coastal oiling. Still, >2100 km of shoreline and many coastal habitats were affected. Research demonstrates that oiling caused a wide range of biological effects, although worst-case impact scenarios did not materialize. Biomarkers in individual organisms were more informative about oiling stress than population and community indices. Salt marshes and seabird populations were hard hit, but were also quite resilient to oiling effects. Monitoring demonstrated little contamination of seafood. Certain impacts are still understudied, such as effects on seagrass communities. Concerns of long-term impacts remain for large fish species, deep-sea corals, sea turtles and cetaceans. These species and their habitats should continue to receive attention (monitoring and research) for years to come.

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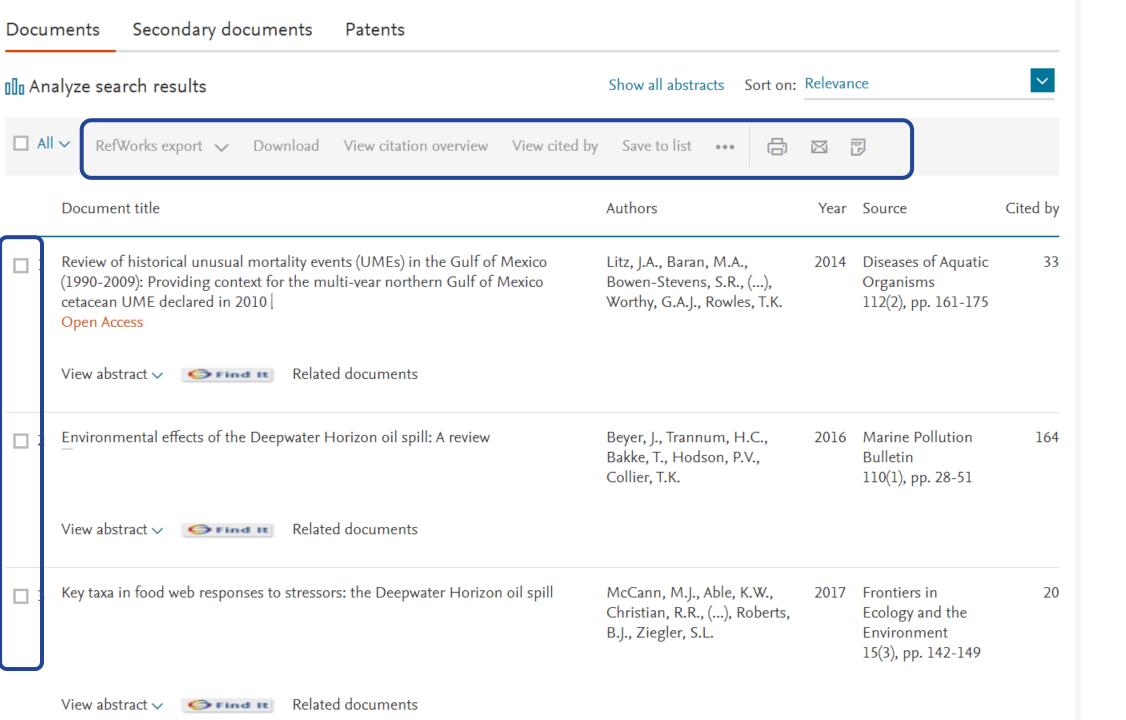
#### Contents

1.	Introd	luction .		
2.	Environmental research on Deepwater Horizon oil spill			
	2.1.	Fate of I	DWH spill	
		2.1.1.	Characterization and behaviour of released oil and gas	
		2.1.2.	Role of HC degrading microbes in oceanic waters	
		2.1.3.	Role of sunlight on fate of surface oil	
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Save to a safe storage area.

Keep track of what you are reading

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# "Find It": very important exception for oil/gas/energy



- Conference papers (SPE & OTC) published by the Society of Petroleum Engineers (SPE) and some other oil/gas/energy related organisations are listed in Scopus (and other databases) but no links are provided to the full-text even though we have paid for these items
  - SPE do not allow the "Find it" service to link to this content
- We do have access to this content in full text
  - Contained in the OnePetro database
  - Copy the title from Scopus, open up the OnePetro database, paste the title. You should find the item there
- If you are a student member of SPE it would be really helpful if you could contact them to say how helpful it would be if they would "open up OnePetro conference papers to link resolver tools such as "Find it" (Thanks ☺!)

# We do not have access to everything



### Databases provide information on millions of articles and research papers

- Not everything is available in electronic format
- Always use "Find it"
  - Important: SPE/OTC and some other oil/gas/energy conference papers do not reliably show as available in SFX. Copy and paste the title into OnePetro to double-check
- We do not subscribe to everything that has been published
- If we do not hold an item (in paper or electronic format) you are not expected to be able to use it

### If not available and you really, really want it

- Carry out Advanced Google search author may have made it available on their home page or in their institutional repository. It may be available in ResearchGate or other academic sharing sites
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- Speak with your supervisor if there are many relevant documents that we do not have access to – they will advise

# Action – get started



- Use Primo > Find Databases to link through to relevant databases
- Search across more than one database they index different journals and other source materials





https://www.abdn.ac.uk/library
/support/information-skills179.php

