

Additional file 5: Coding Sheet

The following form was used to extract relevant meta-data from the final set of published studies included in the following: "Bridging Indigenous and science-based knowledge in coastal-marine research and management in Canada." The general categories of variables extracted from the articles included: (1) bibliographic information; (2) study location; (3) study purpose & scope; (4) research methods and mechanisms; (5) Indigenous Knowledge Systems.

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Note that if there are multiple relevant case studies please complete the questionnaire for each and include a parenthetical at the end of the corresponding author with (A, B, C, etc) to reflect each case study.

*** Required**

1. **Coder Name ***

Mark only one oval.

Coder 1

Coder 2

Coder 3

Coder 4

Coder 5

2. **Screening ***

Mark only one oval.

Include on Full Text

Include for second opinion

Exclude - Relevant Review

Exclude - Not Relevant

Exclude - Geographic (not Canada)

Exclude - System (not marine/coastal)

Exclude - Document type

Exclude - Content (not TEK & Science)

Exclude - Content (TEK only)

BIBLIOGRAPHIC

3. **Year Published ***

4. **Title ***

Title of Journal, book, report, thesis, etc.

5. **Title of Article/ Chapter ***

Full title of the article/chapter (NA = Not Applicable)

6. **Type of Publication ***

Classification of Article Type

Mark only one oval.

Peer-Reviewed Article

PhD Dissertation

Master's Thesis

Report (Government, NGO, Consultant)

Conference Paper

Workshop Summary

White Paper

Other:

7. First Author Affiliation *

Information about the first author, the institution/organization that the author was associated with when producing the article. First author affiliation can usually be located within the article (below abstract or at the end of the article). In cases where an association is not provided, Google search engine will be used to identify the primary affiliation at the time of the publication. Academic: Individual is associated with an educational institution (university or college). Also includes individuals working for private and/or for profit company conducting research for the purpose of fulfilling company goals and objectives. Government: Individual working for or in association with a municipal, provincial, federal, Indigenous, Territorial or international government body. Business/ Industry: Includes individuals working for private and/or for profit company conducting research for the purpose of fulfilling company goals and objectives. NGO/ Civil Society: Individual working for or in association with a non-profit organization on the work in question, public servants (e.g. health care professionals, legal practitioners, public safety personally) or any others whose primary profession is to serve the public, but who is not a government employee.

Mark only one oval.

Academic

Government

Indigenous Government

Business/ industry

Indigenous Business/ industry

Non-governmental organization (NGO)/ Civil Society

Indigenous NGO/ Community Organization

Other:

8. Does the first author self-identify (in the text of the article) as Indigenous, Inuit, First Nations, or Metis? *

Check all that apply.

Indigenous

Inuit

First Nation

Metis

None of the Above

9. Corresponding author name *

Last name, First Name **Note that if there are multiple relevant case studies please complete the questionnaire for each and include a parenthetical at the end of the corresponding author with (A, B, C, etc) to reflect each case study**

10. Corresponding author email address *

11. Corresponding author affiliation *

Information about the corresponding author, the institution/organization that the author was associated with when producing the article. Corresponding author affiliation can usually be located within the article (below abstract or at the end of the article). In cases where an association is not provided, Google search engine will be used to identify the primary affiliation at the time of the publication. Academic: Individual is associated with an educational institution (university or college). Also includes individuals working for private and/or for profit company conducting research for the purpose of fulfilling company goals and objectives. Government: Individual working for or in association with a municipal, provincial, federal, Indigenous, Territorial or international government body. Business/ Industry: Includes individuals working for private and/or for profit company conducting research for the purpose of fulfilling company goals and objectives. NGO/ Civil Society: Individual working for or in association with a non-profit organization on the work in question, public servants (e.g. health care professionals, legal practitioners, public safety personally) or any others whose primary profession is to serve the public, but who is not a government employee.

Check all that apply.

Academic

Government

Indigenous Government

Business/ Consultant

Indigenous Business/ Consultant

Non-governmental Organization (NGO)/ Civil Society

Indigenous NGO/ Community Organization

Other:

12. Indigenous authorship and/or representation *

Are any of the authors Indigenous or represent Indigenous communities, organizations, and/or governments?

Mark only one oval.

Yes

No

13. Abstract *

Copy verbatim

14. Publication Key Words *

Copy Verbatim, SEPARATE MULTIPLE RESPONSES WITH COMMAS, NA = none provided.

15. Publication DOI *

copy verbatim; NA=Not applicable

16. Section 2 Notes

Study Location

Geographic location in which the research was based

17. Coastal-Marine Region *

Mark only one oval.

Atlantic

Pacific

Arctic

18. Federal Province/ Territory/ Inuit Nunangat *

Check all that apply.

Alberta

British Columbia

Manitoba

New Brunswick

Newfoundland and Labrador

Northwest Territories

Nova Scotia

Nunavut

Ontario

Prince Edward Island

Quebec

Saskatchewan

Yukon

Inuvialuit Settlement Region

Nunavik
Nunatsiavut

19. Community, hamlet, or First Nation *

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20. Traditional Territory *

Find here: <https://native-land.ca/> SEPARATE
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21. Lat/Long Coordinates

Look up in google maps if a single location is
possible. Provide response in decimal format.

22. Section 3 Notes

Please provide any notes - e.g., questions, comments, concerns, items you would like a second
opinion on. Note any figures that provide a map of the study area.

Study purpose & scope

23. What was the research question(s) or objective(s)? *

List the research question(s) and/or research objectives listed by the authors (verbatim extraction)

24. Are the research questions/ objectives: *

Can be both.

Check all that apply.

Fundamental (expand general body of knowledge)

Applied (e.g., for management or development purpose)

25. What was the research focus? *

Mark only one oval.

Research & monitoring

Management & decision making

26. What was the ecological scale of the research? *

Mark only one oval.

Ecosystem

Community

Species

27. What was the research subject *

Ecosystem (i.e., inshore, offshore, coastal,
riparian), community, or species (e.g., beluga) If
multiple species separate by commas.

28. Section 4 Notes

Please provide any notes - e.g., questions, comments, concerns, items you would like a second
opinion on.

Research Methods & Mechanisms

29. What methodology/ methodologies were used? *

List the research methodology/ methodologies used by the research?

Check all that apply.

Ethnography

Phenomenology
Grounded Theory
Community-based Participatory Research
Case Study
Experimental
Participatory Modelling
Mixed methods (identify all methodologies used)
Other:

30. What research methods were used for Indigenous Knowledge?

Methods used for acquiring Indigenous Knowledge (check all that apply). IF THE FOCUS OF THE STUDY WAS ON MANAGEMENT AND DECISION MAKING THAN RESPONSE = NA. If the study uses previously collected data please include under other = Secondary Data (insert relevant methods if noted)

Check all that apply.

Interviews (structured, semi-structured, unstructured)
Oral history
Survey
Focus Groups
Sharing Circle
Workshop (incl. community meetings)
Ceremony
Participatory Mapping
Participant Observation
Document Review
Photovoice
Digital Media, including participatory video or digital storytelling
Not Applicable (e.g., management & decision making studies)
Other:

31. What research methods were used for scientific data collection?

Methods used for collecting scientific data (check all that apply). IF THE FOCUS OF THE STUDY WAS ON MANAGEMENT AND DECISION MAKING THAN RESPONSE = NA, If the study uses previously collected data please include under other = Secondary Data (insert relevant methods if noted)

Check all that apply.

Telemetry, tracking devices
Mark-recapture studies - banding, resight data
Natural history observations - behaviour, reproduction, predation events etc.
Counts, census data, stock assessment
Tissue sampling for physiological metrics and/or genetic analysis (i.e. taking blood samples from live birds, hair samples, blubber samples, swabs for disease monitoring)
Examination of whole carcasses, dissections
Experimental manipulation - feeding experiments, anti-parasite treatment given
Abiotic sampling
Simulation (ie data created from model outputs)
Document review or literature review
Not Applicable (e.g., management & decision making studies)
Other:

32. What research methods were used for management and decision-making studies?

Data collection methods for management and decision-making studies (check all that apply)

Check all that apply.

Interviews (structured, semi-structured, unstructured)
Oral history
Survey

Focus Groups
Sharing Circle
Workshop (e.g., community meetings)
Ceremony
Participatory Mapping
Participant Observation
Document Review
Photovoice
Digital Media, including participatory video or digital storytelling
Not Applicable (e.g., management & decision making studies)
Other:

33. Did the authors distinguish between Indigenous and western methodologies and/or Methods?

*

"Indigenous methodologies can be situated within the qualitative landscape because they encompass characteristics congruent with other relational qualitative approaches (e.g., feminist methodologies, participatory action research) that in the research design value both process and content....tribal epistemologies are the centre of Indigenous methodologies, and it is this epistemological framework that makes them distinct from Western qualitative approaches. ' Kovach 2009

Mark only one oval.

Yes

No

34. Section 5 Notes

Please provide any notes - e.g., questions, comments, concerns, items you would like a second opinion on.

Indigenous Knowledge Systems

35. How was Indigenous Knowledge defined by the authors? *

Extracted verbatim (Include references)

36. Demographic of Knowledge Holders - Age *

Check all that apply.

Early (Youth)

Middle

Late

Not Reported

37. Demographic of Knowledge Holders - Elders *

Mark only one oval.

Yes

No

Not Reported

38. Demographic of Knowledge Holders - Gender *

Check all that apply.

Female

Male

Two-Spirit

Other

Not Reported

39. Demographic of Knowledge Holder - Occupation

Check all that apply.

Active Harvester
Retired Harvester
Wage Employment
Not Reported
Other:

40. Indigenous Group *

Check all that apply.

First Nation
Metis
Inuit
Unspecified

41. Indigenous Group

Please provide additional information about specific Nations or regional groups where appropriate (e.g., Anishinaabe, Haida, Nunavik Inuit), SEPARATE MULTIPLE RESPONSES WITH COMMAS

42. Section 6 Notes

Please provide any notes - e.g., questions, comments, concerns, items you would like a second opinion on.