

# CSIRO & IFREMER Scoring Interoperability and assessing reusability of image datasets

\* Indicates required question

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1. Email \*

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Please take note of the time it takes to understand and score each dataset.  
You will enter this at the end of the form

2. Your name

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3. Dataset being scored \*

*Check all that apply.*

- ☐ AMBIO Staviro (Fish)
- ☐ AMBIO Staviro (Benthos)
- ☐ CSIRO TasSeamounts
- ☐ IFREMER Indian Seamounts
- ☐ IFREMER PAGURE Atlantic
- ☐ IFREMER PAGURE Channel Mediterranean
- ☐ IMAS AUV EMR
- ☐ IMAS BRUV EMR (Fish)
- ☐ IMAS BRUV EMR (Benthos)

## DEFINITION OF TERMS

DATA FILE(S)	Computer file(s) that contain the data that is exchanged
DATA CONTENT	Data content is the information contained in a data file. Can be in single or multiple linked files
EBV-EOV	See here:  <a href="https://docs.google.com/spreadsheets/d/15Kzk2kK164FgvLwyc0qLQ1YM4VE6A_yo/edit#gid=1770146521">https://docs.google.com/spreadsheets/d/15Kzk2kK164FgvLwyc0qLQ1YM4VE6A_yo/edit#gid=1770146521</a>
HUMAN READABLE	A file that can be read when opened by a human
MACHINE READABLE	A file that is structured so that it can be read by a computer program (see more at <a href="https://opendatahandbook.org/glossary/en/terms/machine-readable/">https://opendatahandbook.org/glossary/en/terms/machine-readable/</a> ), e.g. a pdf is not machine-readable, only human readable
METHODOLOGY	Methodologies represent the algorithm, equations, way of proceeding for each step; Software is the software(s) used to do this
METADATA:	Description of data in a standardised machine readable format
METRIC	An EBV-EOV metric is defined here as a function of the annotations. A metric thus also depends on the protocol (instrument, sampling design, annotation scheme)
PROCESS	Process comprises the steps that lead to the creation of the file

### 1. INFORMATION ABOUT THE DATASET

A description about how your dataset was created and how it is composed. This should include general information about why and how the data was collected. Complementary information (e.g., links to other data used) should also be included if relevant.

#### 4. 1.1 Is a description of the content given?

*Check all that apply.*

- ☐ No
- ☐ Short description (e.g. 1-2 page post survey report)
- ☐ Large Scientific Report/Publication

#### 5. 1.2 Does the description provide enough information to understand what has been provided?

*Check all that apply.*

- ☐ Yes
- ☐ No
- ☐ Partially

6. 1.3 Is the information easy to understand?

*Mark only one oval.*

Not at all

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1 ☐

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2 ☐

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3 ☐

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4 ☐

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5 ☐

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Completely

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7. 1.4 Do you know why the data was collected (select relevant)?

*Check all that apply.*

	Yes	No	Unsure
<b>The purpose of the data?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Which environment/ecosystem/habitat the data were collected?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>If there are other projects linked to this data collection (e.g. part of a temporal series of surveys)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>The intended audience/discipline?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8. 1.4 Further Comments

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9. 1.5 Do you know how the data was collected?

*Check all that apply.*

- ☐ Source of data collection (e.g., platform, model, instrument)
- ☐ Is the survey design specified

10. 1.5 Further Comments

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11. 1.6 Do you know where the data was collected?

*Check all that apply.*

- ☐ Spatial coverage (e.g. coordinates of the polygon containing the operation distribution)
- ☐ Depth range

12. 1.6 Further Comments

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13. 1.7 Do you know when the data was collected?

Check all that apply.

- ☐ Date of data collection(s)
- ☐ Date of image annotation(s)

14. 1.8 Do you know who collected the data?

Check all that apply.

	Yes	No	Unsure
<b>The entity (organisation/vessel/ country)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Custodian</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Use license (is the licence specified)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

15. 1.8 Further Comments

16. 1.9 Is the following information provided?

Check all that apply.

	Yes	No
<b>Information about the data set presented in a file format (machine readable)</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>The target EBVs explicitly stated in the general information</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Are images provided for explaining the annotation schema?</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>The EBV/EOV illustrated by image examples</b>	<input type="checkbox"/>	<input type="checkbox"/>

17. 1.9 Further Comments

2. INFORMATION ABOUT THE DATE FILES PROVIDED

18. 2.1 Are data files provides as separate files?

Check all that apply.

	Yes	No	Combine with (tick relevant combinations)
Station metadata	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Imagery files(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Annotation file(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EBV/EOV file(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

19. 2.1.1 If combined, please specify (using terms above)

20. 2.2 Information on station metadata file(s)

*Check all that apply.*

	Yes	No	Unsure
<b>Is the file in a proprietary format; can it be read by an Open-Source software?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Is the file human readable?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Is the file machine readable?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Does the file have a unique identifier? (e.g. URL or DOI)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



21. 2.3 Information on image file(s)

*Check all that apply.*

	Yes	No	Unsure
<b>Is the file in a proprietary format; can it be read by an Open-Source software?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Is the file human readable?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Is the file machine readable?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Does the file have a unique identifier? (e.g. URL or DOI)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

22. 2.4 Information on annotation file(s)

*Check all that apply.*

	Yes	No	Unsure
<b>Is the file in a proprietary format; can it be read by an Open-Source software?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Is the file human readable?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Is the file machine readable?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Does the file have a unique identifier? (e.g. URL or DOI)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

23. 2.5 Information on EVB/EOV file(s) (leave blank if no file)

*Check all that apply.*

	Yes	No	Unsure
<b>Is the file in a proprietary format; can it be read by an Open-Source software?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Is the file human readable?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Is the file machine readable?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Does the file have a unique identifier? (e.g. URL or DOI)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

24. Section 2 Further Comments

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### 3. INFORMATION ABOUT THE DATA CONTENT

Metadata is data used to describe the sampling units [leave blank if N/A]

25. 3.1 Information on station metadata file(s)

*Check all that apply.*

	Yes	No	Unsure
<b>Are the data fields explicitly defined?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Are controlled vocabularies documented?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Is it local/national/international standard?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Are standard annotation schemas used?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Do datafiles contain information in multiple written languages?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Is language use consistent in each datafile?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Do you know how the data were produced?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

26. 3.2 Information on image file(s) [leave blank if N/A]

*Check all that apply.*

	Yes	No	Unsure
<b>Are the data fields explicitly defined?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Are controlled vocabularies documented?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Is it local/national/international standard?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Are standard annotation schemas used?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Do datafiles contain information in multiple written languages?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Is language use consistent in each datafile?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Do you know how the data were produced?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

27. 3.3 Information on annotation file(s)

*Check all that apply.*

	Yes	No	Unsure
<b>Are the data fields explicitly defined?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Are controlled vocabularies documented?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Is it local/national/international standard?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Are standard annotation schemas used?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Do datafiles contain information in multiple written languages?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Is language use consistent in each datafile?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Do you know how the data were produced?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

28. 3.4 Information on EVB/EOV file(s) (leave blank if no file)

*Check all that apply.*

	Yes	No	Unsure
<b>Are the data fields explicitly defined?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Are controlled vocabularies documented?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Is it local/national/international standard?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Are standard annotation schemas used?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Do datafiles contain information in multiple written languages?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Is language use consistent in each datafile?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Do you know how the data were produced?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

29. Section 3 Further Comments

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4. INFORMATION ABOUT THE METRICS

EOV/EBVs are defined here:

[https://docs.google.com/spreadsheets/d/15Kzk2kK164FgyLwyc0qLQ1YM4VE6A\\_yo/edit#gid=1770146521](https://docs.google.com/spreadsheets/d/15Kzk2kK164FgyLwyc0qLQ1YM4VE6A_yo/edit#gid=1770146521)

30. 4.1 Is there at least one EBV/EOV data file in the dataset?

*Check all that apply.*

☐ Yes

☐ No

31. 4.1.1 If YES, are they structured in the same way?

*Check all that apply.*

☐ Yes

☐ No

32. 4.2 Can the presented EBV/EOVs metrics be compared with similar metrics that would be obtained from other datasets (in general)?

*Mark only one oval.*

Not at all

1 ☐

2 ☐

3 ☐

4 ☐

5 ☐

Completely

33. 4.2.1 Please provide additional rationale

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34. 4.3 What EOV COULD be calculated from the ANNOTATION dataset?

*Check all that apply.*

	Abundance / Cover / Biomass	Distribution	Composition	Diversity
<b>Benthic Invertebrates- abundance and distribution</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Fish abundance and distribution</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>TBM (Sea turtles, seabirds, marine mammals)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Macroalgal canopy cover</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Seagrass cover and composition</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Hard coral</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Mangrove</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

35. 4.3 What EBV COULD be calculated from the ANNOTATION dataset?

Check all that apply.

	Yes	No	Unsure
<b>Taxonomic diversity</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Species distribution</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Population abundance</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Migratory behaviour</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Population structure by age/size</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Habitat structure</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Ecosystem extent / fragmentation</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Ecosystem composition / functional type</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

36. Section 4 Further Comments

5. OVERALL IMPRESSION AND EXPERTISE

37. 5.1 Overall, how well did you understand the data?

*Mark only one oval.*

Not at all

1

☐

2

☐

3

☐

4

☐

5

☐

Completely

38. 5.2 Are any of the following information/data fields missing?

*Check all that apply.*

- ☐ Contextual information
- ☐ Metadata
- ☐ Standards
- ☐ Provenance
- ☐ EBVs/EOVs
- ☐ Other

39. 5.2.1 If Other, please provide

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40. 5.3 Areas of Expertise

*Check all that apply.*

	Novice	Advanced	Expert
<b>Ecology/Fisheries Science</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Data Science</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Computer Science/IT programming</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Data management</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Data acquisition</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

41. 5.4 Time taken to understand and score (in minutes)

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