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Time taken 1 min 1 sec

Grade 13.00 out of 13.00 (100%)


Question 1

Correct

Mark 1.00 out of
1.00

Your dataset represents a multiple station survey holding species occurrences and environmental data for each station. You also have the sampling protocol for each station and sample. How many files will you have after organising this dataset into the OBIS-ENV-DATA format?

Select one:

- ☐ a. OBIS cannot deal with all these data types
- ☐ b. Two
- ☒ c. Three  Correct: One for the sampling events (eventCore), one for the species occurrences (occurrence extension), one for the measurements and sampling facts (extended MeasurementOrFact extension).
- ☐ d. Five
- ☐ e. One

Your answer is correct.

The correct answer is: Three

Question 2

Correct

Mark 1.00 out of 1.00

Your dataset represents a multiple station survey holding species occurrences and environmental data for each station. You also have the sampling protocol for each station and sample. How many files will you have after organising the data according to the OBIS-ENV-DATA format and published as a DwC archive in your IPT?

Select one:

- ☐ a. Occurrence Core, MeasurementOrFact Extension, eml.xml metadata document and meta.xml data archive descriptor
- ☒ b. Event Core, Occurrence extension, ExtendedMeasurementOrFact Extension, eml.xml metadata document and meta.xml data archive descriptor ✓ Correct
- ☐ c. Event Core, Occurrence extension, MeasurementOrFact Extension, eml.xml metadata document and meta.xml data archive descriptor
- ☐ d. Occurrence Core, Event extension, MeasurementOrFact Extension, eml.xml metadata document and meta.xml data archive descriptor

Your answer is correct.

The correct answer is: Event Core, Occurrence extension, ExtendedMeasurementOrFact Extension, eml.xml metadata document and meta.xml data archive descriptor

Question 3

Correct

Mark 1.00 out of 1.00

If your dataset contains dates, stations and transects, which type of file will you use to structure this information?

Select one:

- ☐ a. Event Extension
- ☒ b. Event Core ✓ Correct
- ☐ c. ExtendedMeasurementOrFact Extension
- ☐ d. Occurrence Core

The correct answer is: Event Core

Question 4

Correct

Mark 1.00 out of 1.00

Suppose you monitor biodiversity using 1 by 1 metre quadrats and measure environmental variables (e.g. temperature and salinity) for each location. Which DwC term links the species occurrences with the abiotic measurements?

Select one:

- ☐ a. measurementType
- ☒ b. eventID ✓ Correct! The eventID from the Event Core links the species occurrences to the sampling events and the abiotic measurements to the sampling events.
- ☐ c. occurrenceID
- ☐ d. parentEventID

Your answer is correct.

The correct answer is: eventID

Question 5

Correct

Mark 1.00 out of 1.00

Which DwC term links your occurrence record and your biotic measurements (e.g. body length, wet weight biomass, counts)?

Select one:

- ☐ a. parentEventID
- ☐ b. measurementTypeID
- ☒ c. occurrenceID ✓ Correct! The occurrenceID is a unique ID for each species occurrence and is used to link the occurrence extension (or occurrence core) with the extended MeasurementOrFact extension.
- ☐ d. eventID

Your answer is correct.

The correct answer is: occurrenceID

Question 6

Correct

Mark 1.00 out of 1.00

According to the OBIS table (long) format, what represents the rows of your table in the Occurrence file?

Select one:

- ☒ a. Occurrences ✓ Correct
- ☐ b. Variables

Your answer is correct.

The correct answer is: Occurrences

Question 7

Correct

Mark 1.00 out of
1.00

What represents the columns of your data set in the OBIS table (long) format?

Select one:

- ☐ a. Samples
- ☒ b. Variables ✓ Correct
- ☐ c. Events
- ☐ d. Occurrences

Your answer is correct.

The correct answer is: Variables

Question 8

Correct

Mark 1.00 out of
1.00

Which Darwin Core term should be unique for your occurrence records?

Select one:

- ☐ a. institutionCode
- ☒ b. occurrenceID ✓ Correct
- ☐ c. eventID
- ☐ d. parentEventID

Your answer is correct.

The correct answer is: occurrenceID

Question 9

Correct

Mark 1.00 out of
1.00

If you have wet weight and length measurements of all your specimen records, you should create an Occurrence Core file and an ExtendedMeasurementorFact Extension.

Select one:

- ☒ True ✓
- ☐ False

Correct!

The correct answer is 'True'.

Question 10

Correct

Mark 1.00 out of
1.00

The ExtendedMeasurementorFact Extension file contains the scientific name of the specimens recorded during a sampling event.

Select one:

- ☐ True
- ☒ False ✓

Correct!

The correct answer is 'False'.

Question 11

Correct

Mark 1.00 out of
1.00

The ExtendedMeasurementorFact Extension file needs the occurrenceID column to link the sampling event record to the abiotic measurements.

Select one:

- ☐ True
- ☒ False ✓

Correct!

The correct answer is 'False'.

Question 12

Correct

Mark 1.00 out of
1.00

The terms measurementType and measurementTypeID are part of the ExtendedMeasurementorFact Extension file.

Select one:

- ☒ True ✓
- ☐ False

Correct!

The correct answer is 'True'.

Question 13

Correct

Mark 1.00 out of
1.00

The dataset you are processing mentions that of the taxon *Gadus morhua* there were 2 juveniles and 1 female adult with eggs observed. How does this translate to DwC?

Select one:

- ☐ a. One occurrence record with the following structure
- scientificName: *Gadus morhua*
 - lifeStage 2 juveniles and 1 female adult with eggs
- ☐ b. Two occurrence record with the following structures
- Record 1:
- scientificName: *Gadus morhua*
 - lifeStage: 2 juveniles
- Record 2:
- scientificName: *Gadus morhua*
 - lifeStage: 1 female adult with eggs
- ☐ c. One occurrence record with the following structure
- scientificName: *Gadus morhua* 2 juveniles and 1 female adult with eggs
- ☐ d. Two occurrence record with the following structures
- Record 1:
- DwC:scientificName: *Gadus morhua*
 - lifeStage: juvenile
 - individualCount: 2
- Record 2:
- scientificName: *Gadus morhua*
 - lifeStage:adult
 - sex: female
 - reproductiveCondition: with eggs
 - individualCount: 1
- ☒ e. Two occurrence record with the following structures
- Record 1:
- DwC:scientificName: *Gadus morhua*
 - eMoF Type: lifeStage and eMoF Value: juvenile
 - eMoF Type: individualCount and eMoF Value: 2 and eMoF Unit: individuals
- Record 2:
- scientificName: *Gadus morhua*
 - eMoF Type: lifeStage and eMoF Value: adult
 - eMoF Type: Sex and eMoF Value: female
 - eMoF Type: reproductiveCondition and eMoF Value: with eggs
 - eMoF Type: individualCount and eMoF Value: 1 and eMoF Unit: individuals



Correct! This is the recommended formatting in OBIS.

Your answer is correct.

The field `scientificName` should only contain a taxon name, other information should be split up in other relevant fields.

Note that while OBIS allows the use of the DwC terms `sex`, `lifestage`, and `individualCount`, it's recommended that these data are stored in the ExtendedMeasurementOrFact Extension (eMoF) as this allows the linking to the BODC vocabularies for life stage <http://vocab.nerc.ac.uk/collection/S11/current/> and gender <http://vocab.nerc.ac.uk/collection/S10/current/>

The correct answer is: Two occurrence record with the following structures

Record 1:

- DwC:scientificName: *Gadus morhua*
- eMoF Type: `lifeStage` and eMoF Value: `juvenile`
- eMoF Type: `individualCount` and eMoF Value: `2` and eMoF Unit: `individuals`

Record 2:

- `scientificName`: *Gadus morhua*
- eMoF Type: `lifeStage` and eMoF Value: `adult`
- eMoF Type: `Sex` and eMoF Value: `female`
- eMoF Type: `reproductiveCondition` and eMoF Value: `with eggs`
- eMoF Type: `individualCount` and eMoF Value: `1` and eMoF Unit: `individuals`