

### 10.2.1 Feature Codes (Group\_F)

No attributes.

This group specifies the S-100 features to which the data applies, and consists of three components:

**featureCode** – a dataset with the featureCode(s) of the S-100 feature(s) contained in the data product. For S-102, the dataset has only **BathymetryCoverage**.

**BathymetryCoverage** – Described in the featureCode table. This feature contains the standard definition of the feature class.

**QualityOfSurveyCoverage** – Also described in the featureCode table. This dataset contains the definition of the reference to metadata records. The reference is a single integer which identifies a metadata record in featureAttributeTable (described in S-100 10c-9.6.2 and clause 10.2.7 in this document).

### 10.2.2 BathymetryCoverage and QualityOfSurveyCoverage Tables (in Group\_F)

BathymetryCoverage and QualityOfSurveyCoverage are arrays of compound type elements, whose components are the 8 components specified in Table 10-3.

**Table 10.3 – Sample contents of the two-dimensional BathymetryCoverage and QualityOfSurveyCoverage arrays**

| Name | Explanation                                | BathymetryCoverage |                   | QualityOfSurveyCoverage |
|------|--------------------------------------------|--------------------|-------------------|-------------------------|
|      |                                            | S-100 Attribute 1  | S-100 Attribute 2 | Attribute 1             |
| code | Camel Case code of attribute as in Feature | depth              | uncertainty       | id                      |

Old text

### 10.2.1 Feature Codes (Group\_F)

No attributes.

This group specifies the S-100 features to which the data applies, and consists of three components:

**featureCode** – a 1-dimensional dataset with the featureCode(s) of the S-100 feature(s) contained in the data product. For S-102, the dataset has only two elements – the strings “**BathymetryCoverage**” and “**QualityOfSurveyCoverage**” (without quotes). The entries in this dataset give the names of the other two components of Group\_F.

**BathymetryCoverage** – A 1-dimensional array that contains the standard definition of the bathymetry coverage feature class in terms of its attributes and their types, units of measure, etc.

**QualityOfSurveyCoverage** – A 1-dimensional array of the same datatype as the **BathymetryCoverage** dataset described above. This **QualityOfSurveyCoverage** dataset contains the definition of the reference to metadata records. The reference is an integer field which identifies a metadata record in the feature attribute table described in S-100 10c-9.6.2 and clause 10.2.7 in this document.

### 10.2.2 BathymetryCoverage and QualityOfSurveyCoverage Tables (in Group\_F)

BathymetryCoverage and QualityOfSurveyCoverage are arrays of compound type elements, whose components are the 8 components specified in Table 10-3.

**Table 10.3 – Sample contents of the BathymetryCoverage and QualityOfSurveyCoverage arrays**

| Field Name | Explanation                                          | BathymetryCoverage |                   | QualityOfSurveyCoverage |
|------------|------------------------------------------------------|--------------------|-------------------|-------------------------|
|            |                                                      | S-100 Attribute 1  | S-100 Attribute 2 | Attribute 1             |
| code       | Camel Case code of attribute as in Feature Catalogue | depth              | uncertainty       | id                      |

New text

# Datasets in Group\_F

The screenshot displays a software interface with a hierarchical tree on the left and several windows on the right. The tree shows a file named '102DE00GQ62.h5' containing a 'Group\_F' object. The 'Group\_F' object contains three datasets: 'BathymetryCoverage', 'QualityOfSurveyCoverage', and 'featureCode'. The 'Object Attribute Info' window shows details for 'Group\_F', including its name, path, type (HDF5 Group), and object reference (2536). It also lists the group members: 'BathymetryCoverage' (Dataset), 'QualityOfSurveyCoverage' (Dataset), and 'featureCode' (Dataset).

The 'featureCode at /Group\_F/ ...' window shows a table with two rows:

| 0-based |                         |
|---------|-------------------------|
| 0       | BathymetryCoverage      |
| 1       | QualityOfSurveyCoverage |

The 'BathymetryCoverage at /Group\_F/ [102DE00GQ62.h5 in E:\work\S102\S-102 Version 2.1.0 Extende...' window shows a table with two rows:

|   | code        | name        | uom.name | fillValue | datatype  | lower  | upper | closure        |
|---|-------------|-------------|----------|-----------|-----------|--------|-------|----------------|
| 0 | depth       | depth       | metres   | 1000000.0 | H5T_FLOAT | -12000 | 12000 | closedInterval |
| 1 | uncertainty | uncertainty | metres   | 1000000.0 | H5T_FLOAT | 0      | 12000 | gtLeInterval   |

The 'QualityOfSurveyCoverage at /Group\_F/ [102DE00GQ62.h5 in E:\work\S102\S-102 Version 2.1.0 Ext...' window shows a table with one row:

|   | code | name | uom.name | fillValue | datatype       | lower | upper | closure        |
|---|------|------|----------|-----------|----------------|-------|-------|----------------|
| 0 | id   | id   | N/A      | 0         | H5T_NATIVE_INT | 1     |       | geSemiInterval |