|   | 011 011   |   | 014   |   | The state of the s |   |
|---|---|---|---|---|--|---|
| Object name   |   | Required                                | Object Type   | Dimension   | Field definition   | Example   |
| format_version  | group<br>attribute  | Yes                                     | string(10)  |   | General description of the field  Format specification version   | e.g."EDF1.0"  |
| author  | attribute   | Yes                                     | string(10)<br>string(30)  |   | Creator of the HDF5 file   | e.g. "Ricardo DUARTE"   |
| institution   | attribute   | Yes                                     | string(50)  |   | Data provider Institution  | e.g." University of Algarve, SIPLAB"  |
| country_code  | attribute   | Yes                                     | string(5)   |   | Country and region codes according to ISO 3166   | e.g. "PT for Portugal"  |
| contact   | attribute   | Yes                                     | string(50)  |   | Contact for all external queries in the future   | e.g."e-mail:rjduarte@ualg.pt"   |
| start_date  | attribute   | Yes                                     | integer(20)   |   | Data when the analysis started according to ISO 8601   | e.g."20190131 for the 31st of January 2019"   |
| end_date  | attribute   | Yes                                     | integer(20)   |   | Data when the analysis ended according to ISO 8601   | e.g."20190231 for the 31st of February 2019"  |
| date_of_creation  | attribute   | Yes                                     | integer(20)   |   | File creation date according to ISO 8601   | e.g."20190310 for the 10th of March 2019"   |
| purpose   | attribute   | Optional                                | string(500)   |   | Objective of the experimental/numerical analysis   | "Evaluation of the underwater noise   |
| purpose   | decinoace   | Optional                                | 501 IIIS(500)   |   |  | e.g. at Azores archipelago included in JONAS project"   |
| data_uuid   | attribute   | Yes                                     | string(30)  |   | Data unique identification number, linking exchange data with raw data using:  | e.g."PT-2020-0615-EXP-0001-0010"  |
| 1.4.4   |   |   | 0 ( )   |   | "country_code-year-month_day-datatype-file_number/total_files  | Ŭ   |
| data_type   | attribute   | Yes                                     | string(20)  |   | Indication whether is experimental, numerical or combined data   | e.g. "Combined"   |
| comments  | attribute   | Optional                                | string(300)   |   | Generic observations  Convert description of the file metadate   | e.g."Complete dataset"  |
| /analysis_metadata<br>/experimental   | group   | Yes                                     |   |   | General description of the file metadata General description of the experimental metadata  |   |
| /experimental   | group   | ies                                     |   |   | Description of the deployment: Autonomous - AUT; Cable Mounted - CM;   |   |
| sotup   | attribute   | Optional                                | string(20)  |   | Combined - COMB; Bottom Frame - BF; From Vessel - FV; Glider - GLD   | e.g."CM" and "BF"   |
| setup   | attibute  | Optional                                | string(20)  |   | Mooring with floating buoy - MFB; Other - OTH  | e.g. ON and Dr  |
| /recorder   | group   |   |   |   | General description of the recorder  |   |
| recorder_manufacturer   | group<br>attribute  | Optional                                | string(100)   |   | Recorder manufacturer  | e.g."MarSensing Lda."   |
| recorder_serial_number  | attribute   | Optional                                | string(100)<br>string(100)  |   | Recorder serial number   | e.g. "SN45736"  |
| recorder_model  | attribute   | Optional                                | string(100)   |   | Recorder model   | e.g. "SR-1"   |
| builtin_hydrophone  | attribute   | Optional                                | string(5)   |   | Recorder and the hydrophone are one  | e.g."Yes"   |
| /hydrophone   | group   | 1                                       | 3(-)  |   | General description of the hydrophones   |   |
| hydrophone_manufacturer   | dataset   | Optional                                | string(100)   | hydrophone_count  | Hydrophone manufacturer  | e.g."MarSensing Lda."   |
| hydrophone_sensitivity  | dataset   | Yes                                     | float(10)   | hydrophone_count  | Hydrophone sensitivity provided by the manufacturer in $dBre1V/\mu Pa$   | e.g."-185"  |
| hydrophone_serial_number  | dataset   | Optional                                | string(100)   | hydrophone_count  | Hydrophone serial number   | e.g."SN-SR1-2019-2"   |
| hydrophone_model  | dataset   | Optional                                | string(100)   | hydrophone_count  | Hydrophone model   | e.g."SR1"   |
| /calibration  | group   |   |   |   | General description of the equipment calibration for each hydrophone   |   |
| calibration_frequency_count   | dataset   | Yes                                     | integer(2)  | hydrophone_count  | Number of frequencies used to calibrate hydrophones  | e.g."1"   |
| calibration_datetime  | dataset   | Yes                                     | integer(20)   | hydrophone_count  | Date and time when the system was calibrated according to ISO 8601   | e.g."20180101 for the 1st of January of 2018"   |
| calibration_factor  | dataset   | Yes                                     | float(5)  | hydrophone_count x calibration_frequency_count  | Factor to convert raw data from volts to dB re $1\mu Pa$   | e.g."1000"  |
| calibration_procedure   | dataset   | Yes                                     | string(300)   | hydrophone_count  | Procedure used to calibrate hydrophones according to ICES codes.   | e.g."CPC"   |
|   |   |   |   |   | See the entire ICES code list at: "vocab.ices.dk/?ref=1591"  |   |
|   |   |   |   |   |  |   |
| reference_frequencies   | dataset   | Yes                                     | float(5)  | hydrophone_count x calibration_frequency_count  | Calibration frequencies in Hz  | e.g."100"   |
| /numerical_model  | group   | Yes                                     |   | hydrophone_count x calibration_frequency_count  | General description of the numerical model metadata  |   |
| *   |   |   | float(5) string(100)  | hydrophone_count x calibration_frequency_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.   | e.g."100" e.g."AISHub - www.aishub.net"   |
| /numerical_model ais_database   | group<br>attribute  | Yes<br>Yes                              | string(100)   | hydrophone_count x calibration_frequency_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB   | e.g."AISHub - www.aishub.net"   |
| /numerical_model  | group   | Yes                                     |   | hydrophone_count x calibration_frequency_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code   |   |
| /numerical_model ais_database source_levels   | group<br>attribute<br>dataset   | Yes<br>Yes<br>Yes                       | string(100) integer(10)   | hydrophone_count x calibration_frequency_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level   | e.g." [50 60 80; 170 120 180] "   |
| /numerical_model ais_database source_levels bathymetry_database   | group attribute dataset attribute   | Yes Yes Yes Yes                         | string(100) integer(10) string(100)   | hydrophone_count x calibration_frequency_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database   | e.g." [50 60 80; 170 120 180] " e.g." [GEBCO - www.gebco.net"   |
| /numerical_model ais_database source_levels   | group<br>attribute<br>dataset   | Yes<br>Yes<br>Yes                       | string(100) integer(10) string(100) string(100)   | hydrophone_count x calibration_frequency_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level   | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu"   |
| /numerical_model ais_database source_levels bathymetry_database temperature_database  | group attribute dataset attribute attribute   | Yes Yes Yes Yes Yes Yes                 | string(100) integer(10) string(100) string(100) string(100)   | hydrophone_count x calibration_frequency_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database   | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net"  |
| /numerical_model ais_database source_levels bathymetry_database temperature_database salinity_database  | group attribute dataset attribute attribute attribute   | Yes Yes Yes Yes Yes Yes Yes Yes         | string(100) integer(10) string(100) string(100)   | hydrophone_count x calibration_frequency_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database  Description of the water column salinity database  | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."COPERNICUS - www.copernicus.eu"  |
| /numerical_model ais_database source_levels bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration   | group attribute dataset attribute attribute attribute attribute attribute   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100)   | hydrophone_count x calibration_frequency_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database  Description of model used to calculate the sound speed profile   | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation"   |
| /numerical_model ais_database source_levels bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model  | group attribute dataset attribute attribute attribute attribute attribute attribute   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(100)   | hydrophone_count x calibration_frequency_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database  Description of the water column salinity database  Description of model used to calculate the sound speed profile  Description of the propagation model  Description of the experimental data file used to calibrate numerical models.  General description of ambient noise   | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken"  |
| /numerical_model ais_database source_levels bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration   | group attribute dataset attribute attribute attribute attribute attribute attribute attribute   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(100)   | hydrophone_count x calibration_frequency_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database  Description of the water column salinity database  Description of model used to calculate the sound speed profile  Description of the propagation model  Description of the experimental data file used to calibrate numerical models.  General description of the location  | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken"  |
| /numerical_model ais_database source_levels bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration /ambient_noise_dataset /position hydrophone_count   | group attribute dataset attribute attribute attribute attribute attribute attribute attribute group   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(10) string(50) integer(2)  | hydrophone_count x calibration_frequency_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database  Description of model used to calculate the sound speed profile  Description of the propagation model  Description of the experimental data file used to calibrate numerical models.  General description of the location  Number of hydrophones  | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1"   |
| /numerical_model ais_database source_levels bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points   | group attribute dataset attribute attribute attribute attribute attribute attribute group group dataset dataset   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(50) integer(2) integer(10)   |   | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database  Description of the water column salinity database  Description of model used to calculate the sound speed profile  Description of the propagation model  Description of the experimental data file used to calibrate numerical models.  General description of ambient noise  General description of the location  Number of hydrophones  Total number of points in the numerical grid   | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1" e.g."1000"  |
| /numerical_model ais_database source_levels bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude   | group attribute dataset attribute attribute attribute attribute attribute attribute group group dataset dataset dataset   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(50) integer(2) integer(10) float(10)   | hydrophone/grid_count x time_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database  Description of model used to calculate the sound speed profile  Description of the propagation model  Description of the experimental data file used to calibrate numerical models.  General description of the location  Number of hydrophones  Total number of points in the numerical grid  Longitude coordinates vector in decimal degrees   | e.g."AISHub - www.aishub.net"  e.g."[50 60 80; 170 120 180] "  e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1" e.g."1000" e.g."[40.446,,41.115]"   |
| /numerical_model ais_database source_levels bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude  | group attribute dataset attribute attribute attribute attribute attribute attribute group group dataset dataset dataset dataset   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(50)  integer(2) integer(10) float(10) float(10)  | hydrophone/grid_count x time_count hydrophone/grid_count x time_count   | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database  Description of model used to calculate the sound speed profile  Description of the propagation model  Description of the experimental data file used to calibrate numerical models.  General description of ambient noise  General description of the location  Number of hydrophones  Total number of points in the numerical grid  Longitude coordinates vector in decimal degrees  Latitude coordinates vector in decimal degrees   | e.g." [50 60 80; 170 120 180] "  e.g." [50 60 80; 170 120 180] "  e.g." GEBCO - www.gebco.net" e.g." COPERNICUS - www.copernicus.eu" e.g." COPERNICUS - www.copernicus.eu" e.g." K.Mackenzie-nine-term equation" e.g." Kraken" e.g." data_uidn:xxxx-xxxx-xxxxx"  e.g." 1" e.g." 1000" e.g." [40.446,,41.115]" e.g." [79.982,,81.281]"   |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth  | group attribute dataset attribute attribute attribute attribute attribute attribute attribute attribute dattribute attribute attribute dattribute group group dataset dataset dataset dataset dataset   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(50) integer(2) integer(10) float(10)   | hydrophone/grid_count x time_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database  Description of model used to calculate the sound speed profile  Description of the propagation model  Description of the experimental data file used to calibrate numerical models.  General description of ambient noise  General description of the location  Number of hydrophones  Total number of points in the numerical grid  Longitude coordinates vector in decimal degrees  Latitude coordinates vector in decimal degrees  Depth vector according to the mean reference sea level in meters   | e.g."AISHub - www.aishub.net"  e.g."[50 60 80; 170 120 180] "  e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1" e.g."1000" e.g."[40.446,,41.115]"   |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency   | group attribute dataset attribute attribute attribute attribute attribute attribute attribute attribute dattribute attribute attribute group group dataset dataset dataset dataset group  | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(50)  integer(2) integer(10) float(10) float(10)  | hydrophone/grid_count x time_count hydrophone/grid_count x time_count   | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database  Description of model used to calculate the sound speed profile  Description of the propagation model  Description of the experimental data file used to calibrate numerical models.  General description of ambient noise  General description of the location  Number of hydrophones  Total number of points in the numerical grid  Longitude coordinates vector in decimal degrees  Latitude coordinates vector in decimal degrees  Depth vector according to the mean reference sea level in meters  General description of ambient noise frequencies   | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1" e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"   |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency frequency_count   | group attribute  dataset  attribute attribute attribute attribute attribute attribute attribute attribute attribute dataset dataset dataset dataset dataset dataset dataset dataset   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(50)  integer(2) integer(10) float(10) float(10) float(10)  | hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database  Description of model used to calculate the sound speed profile  Description of the propagation model  Description of the experimental data file used to calibrate numerical models.  General description of ambient noise  General description of the location  Number of hydrophones  Total number of points in the numerical grid  Longitude coordinates vector in decimal degrees  Latitude coordinates vector in decimal degrees  Depth vector according to the mean reference sea level in meters  General description of ambient noise frequencies  Number of frequencies  | e.g."AISHub - www.aishub.net"  e.g."[50 60 80; 170 120 180] "  e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1" e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"  e.g."2"  |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency frequency_count frequency_band_definition   | group attribute  dataset  attribute attribute attribute attribute attribute attribute attribute attribute dataset   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(50)  integer(2) integer(10) float(10) float(10) float(10) integer(10)  | hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count   | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database  Description of model used to calculate the sound speed profile  Description of the propagation model  Description of the experimental data file used to calibrate numerical models.  General description of ambient noise  General description of the location  Number of hydrophones  Total number of points in the numerical grid  Longitude coordinates vector in decimal degrees  Latitude coordinates vector in decimal degrees  Depth vector according to the mean reference sea level in meters  General description of ambient noise frequencies  Number of frequencies  Describes the frequency band used and base  | e.g."AISHub - www.aishub.net"  e.g."[50 60 80; 170 120 180] "  e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1" e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"  e.g."2" e.g."13-octave-band in base 2"   |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency frequency_count frequency_band_definition frequency   | group attribute  dataset  attribute group group dataset   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(50)  integer(2) integer(10) float(10) float(10) float(10)  | hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database  Description of model used to calculate the sound speed profile  Description of the propagation model  Description of the experimental data file used to calibrate numerical models.  General description of ambient noise  General description of the location  Number of hydrophones  Total number of points in the numerical grid  Longitude coordinates vector in decimal degrees  Latitude coordinates vector in decimal degrees  Depth vector according to the mean reference sea level in meters  General description of ambient noise frequencies  Number of frequencies  Describes the frequency band used and base  Frequencies in Hz at which the SPL is calculated  | e.g."AISHub - www.aishub.net"  e.g."[50 60 80; 170 120 180] "  e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1" e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"  e.g."2"  |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency frequency_count frequency_count frequency_band_definition frequency /time   | group attribute  dataset  attribute attribute attribute attribute attribute attribute attribute attribute dataset dataset dataset dataset dataset dataset dataset dataset dataset group dataset dataset group   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(50)  integer(2) integer(10) float(10) float(10) float(5)   | hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count   | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB by vessel category according to their AIS ship type code First line indicating the ship type and second line the corresponding source level Description of the bathymetry database Description of the water column temperature database Description of model used to calculate the sound speed profile Description of the propagation model Description of the experimental data file used to calibrate numerical models.  General description of ambient noise General description of the location Number of hydrophones Total number of points in the numerical grid Longitude coordinates vector in decimal degrees Latitude coordinates vector in decimal degrees Depth vector according to the mean reference sea level in meters General description of ambient noise frequencies Number of frequencies Describes the frequency band used and base Frequencies in Hz at which the SPL is calculated General description of ambient noise time   | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1" e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"  e.g."2" e.g."2" e.g."1/3-octave-band in base 2" e.g."63" and "126"   |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency frequency_count frequency_band_definition frequency   | group attribute  dataset  attribute group group dataset   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(50)  integer(2) integer(10) float(10) float(10) float(10) integer(10)  | hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count   | Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB by vessel category according to their AIS ship type code First line indicating the ship type and second line the corresponding source level Description of the bathymetry database Description of the water column temperature database Description of the water column salinity database Description of model used to calculate the sound speed profile Description of the propagation model Description of the experimental data file used to calibrate numerical models.  General description of ambient noise General description of the location Number of hydrophones Total number of points in the numerical grid Longitude coordinates vector in decimal degrees Latitude coordinates vector in decimal degrees Depth vector according to the mean reference sea level in meters General description of ambient noise frequencies Number of frequencies Describes the frequency band used and base Frequencies in Hz at which the SPL is calculated General description of ambient noise time Duration that the device is recording  | e.g."AISHub - www.aishub.net"  e.g."[50 60 80; 170 120 180] "  e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1" e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"  e.g."2" e.g."13-octave-band in base 2"   |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency frequency_count frequency_count frequency_band_definition frequency /time   | group attribute  dataset  attribute attribute attribute attribute attribute attribute attribute attribute dataset dataset dataset dataset dataset dataset dataset dataset dataset group dataset dataset group   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(50)  integer(2) integer(10) float(10) float(10) float(5)   | hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count   | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database  Description of the water column salinity database  Description of model used to calculate the sound speed profile  Description of the propagation model  Description of the experimental data file used to calibrate numerical models.  General description of ambient noise  General description of the location  Number of hydrophones  Total number of points in the numerical grid  Longitude coordinates vector in decimal degrees  Latitude coordinates vector in decimal degrees  Depth vector according to the mean reference sea level in meters  General description of ambient noise frequencies  Number of frequencies  Describes the frequency band used and base  Frequencies in Hz at which the SPL is calculated  General description of ambient noise time  Duration that the device is recording  Duration that the device is not recording.   | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1" e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"  e.g."2" e.g."2" e.g."1/3-octave-band in base 2" e.g."63" and "126"   |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency frequency_count frequency_count frequency_band_definition frequency /time time_duty_on time_duty_off  | group attribute  dataset  attribute attribute attribute attribute attribute attribute group group dataset dataset dataset dataset dataset dataset group dataset   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(10) string(50)  integer(2) integer(10) float(10) float(10) float(5)  integer(10) integer(10) integer(10) integer(10)   | hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count   | Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB by vessel category according to their AIS ship type code First line indicating the ship type and second line the corresponding source level Description of the bathymetry database Description of the water column temperature database Description of the water column salinity database Description of model used to calculate the sound speed profile Description of the propagation model Description of the experimental data file used to calibrate numerical models.  General description of ambient noise General description of the location Number of hydrophones Total number of points in the numerical grid Longitude coordinates vector in decimal degrees Latitude coordinates vector in decimal degrees Depth vector according to the mean reference sea level in meters General description of ambient noise frequencies Number of frequencies Describes the frequency band used and base Frequencies in Hz at which the SPL is calculated General description of ambient noise time Duration that the device is recording Duration that the device is not recording. If the device is always recording type "0"  | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"  e.g."2" e.g."1/3-octave-band in base 2" e.g."63" and "126"  e.g."30 minutes" e.g."30 minutes"  |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency frequency_count frequency_count frequency_band_definition frequency /time time_duty_on time_duty_off time_count   | group attribute  dataset  attribute attribute attribute attribute attribute attribute group group dataset   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(10) string(50)  integer(2) integer(10) float(10) float(10) float(5)  integer(10) integer(10) float(5)  | hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count frequency_count frequency_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database  Description of the water column salinity database  Description of model used to calculate the sound speed profile  Description of the propagation model  Description of the experimental data file used to calibrate numerical models.  General description of ambient noise  General description of the location  Number of hydrophones  Total number of points in the numerical grid  Longitude coordinates vector in decimal degrees  Latitude coordinates vector in decimal degrees  Depth vector according to the mean reference sea level in meters  General description of ambient noise frequencies  Number of frequencies  Describes the frequency band used and base  Frequencies in Hz at which the SPL is calculated  General description of ambient noise time  Duration that the device is recording  Duration that the device is not recording.  If the device is always recording type "0"  Number of time entrances since start_datetime  | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"  e.g."2" e.g."1/3-octave-band in base 2" e.g."63" and "126"  e.g."30 minutes" e.g."30 minutes" e.g."30 minutes" e.g."31250"   |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency frequency_count frequency_count frequency_band_definition frequency /time  time_duty_on time_duty_off time_count time   | group attribute  dataset  attribute attribute attribute attribute attribute attribute attribute attribute attribute group group dataset   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(10) string(50)  integer(2) integer(10) float(10) float(10) float(5)  integer(10) integer(10) integer(10) integer(10)   | hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count   | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB  by vessel category according to their AIS ship type code  First line indicating the ship type and second line the corresponding source level  Description of the bathymetry database  Description of the water column temperature database  Description of the water column salinity database  Description of model used to calculate the sound speed profile  Description of the propagation model  Description of the experimental data file used to calibrate numerical models.  General description of ambient noise  General description of the location  Number of hydrophones  Total number of points in the numerical grid  Longitude coordinates vector in decimal degrees  Latitude coordinates vector in decimal degrees  Depth vector according to the mean reference sea level in meters  General description of ambient noise frequencies  Number of frequencies  Describes the frequency band used and base  Frequencies in Hz at which the SPL is calculated  General description of ambient noise time  Duration that the device is recording  If the device is always recording type "0"  Number of time entrances since start_datetime  Time vector in POSIX time seconds   | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"  e.g."2" e.g."1/3-octave-band in base 2" e.g."63" and "126"  e.g."30 minutes" e.g."30 minutes"  |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency frequency_count frequency_count frequency_band_definition frequency /time time_duty_on time_duty_off time_count time /sound_pressure_levels   | group attribute  dataset  attribute attribute attribute attribute attribute attribute group group dataset group attribute attribute dataset group   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(10) string(50)  integer(2) integer(10) float(10) float(10) float(5)  integer(10) integer(10) float(10) float(10) float(10) float(10)   | hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count frequency_count frequency_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB by vessel category according to their AIS ship type code First line indicating the ship type and second line the corresponding source level Description of the bathymetry database Description of the water column temperature database Description of the water column salinity database Description of model used to calculate the sound speed profile Description of the propagation model Description of the experimental data file used to calibrate numerical models.  General description of ambient noise General description of the location  Number of hydrophones Total number of points in the numerical grid Longitude coordinates vector in decimal degrees Latitude coordinates vector in decimal degrees Depth vector according to the mean reference sea level in meters  General description of ambient noise frequencies  Number of frequencies Describes the frequency band used and base Frequencies in Hz at which the SPL is calculated  General description of ambient noise time  Duration that the device is recording Duration that the device is recording If the device is always recording type "0"  Number of time entrances since start_datetime Time vector in POSIX time seconds  General description of sound pressure levels (spl)  | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"  e.g."2" e.g."1/3-octave-band in base 2" e.g."63" and "126"  e.g."30 minutes" e.g."30 minutes" e.g."30 minutes" e.g."1562151105,,1562153100]"                         |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency frequency_count frequency_count frequency_band_definition frequency /time  time_duty_on time_duty_off time_count time   | group attribute  dataset  attribute attribute attribute attribute attribute attribute attribute attribute attribute group group dataset   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(10) string(50)  integer(2) integer(10) float(10) float(10) float(5)  integer(10) integer(10) float(5)  | hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count frequency_count frequency_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB by vessel category according to their AIS ship type code First line indicating the ship type and second line the corresponding source level Description of the bathymetry database Description of the water column temperature database Description of the water column salinity database Description of model used to calculate the sound speed profile Description of the propagation model Description of the experimental data file used to calibrate numerical models.  General description of ambient noise General description of the location Number of hydrophones Total number of points in the numerical grid Longitude coordinates vector in decimal degrees Latitude coordinates vector in decimal degrees Depth vector according to the mean reference sea level in meters  General description of ambient noise frequencies  Number of frequencies Describes the frequency band used and base Frequencies in Hz at which the SPL is calculated General description of ambient noise time  Duration that the device is recording  Uration that the device is recording.  If the device is always recording type "0"  Number of time entrances since start_datetime Time vector in POSIX time seconds  General description of sound pressure levels (spl)  Averaging time in seconds   | e.g."AISHub - www.aishub.net"  e.g."[50 60 80; 170 120 180] "  e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"  e.g."2" e.g."1/3-octave-band in base 2" e.g."63" and "126"  e.g."30 minutes" e.g."30 minutes" e.g."30 minutes" e.g."3150"  |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency frequency_count frequency_count frequency_band_definition frequency /time time_duty_on time_duty_off time_count time /sound_pressure_levels   | group attribute  dataset  attribute attribute attribute attribute attribute attribute group group dataset group attribute attribute dataset group   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(10) string(50)  integer(2) integer(10) float(10) float(10) float(5)  integer(10) integer(10) float(10) float(10) float(10) float(10)   | hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count frequency_count frequency_count  | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB by vessel category according to their AIS ship type code First line indicating the ship type and second line the corresponding source level Description of the bathymetry database Description of the water column temperature database Description of the water column salinity database Description of model used to calculate the sound speed profile Description of the propagation model Description of the experimental data file used to calibrate numerical models.  General description of ambient noise General description of the location Number of hydrophones Total number of points in the numerical grid Longitude coordinates vector in decimal degrees Latitude coordinates vector in decimal degrees Depth vector according to the mean reference sea level in meters  General description of ambient noise frequencies Number of frequencies Describes the frequency band used and base Frequencies in Hz at which the SPL is calculated General description of ambient noise time  Duration that the device is recording Duration that the device is not recording.  If the device is always recording type "0" Number of time entrances since start_datetime Time vector in POSIX time seconds General description of sound pressure levels (spl)  Averaging time in seconds SPL over time for all covered frequency bands in dB re 1μPa²/Hz  | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"  e.g."2" e.g."1/3-octave-band in base 2" e.g."63" and "126"  e.g."30 minutes" e.g."30 minutes" e.g."30 minutes" e.g."1562151105,,1562153100]"                         |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency frequency_count frequency_band_definition frequency /time time_duty_on time_duty_off time_count time /sound_pressure_levels averaging_time spl_values   | group attribute dataset attribute group dataset | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(10) string(50)  integer(2) integer(10) float(10) float(10) float(10) integer(10) integer(10) integer(10) integer(10) integer(10) integer(10) integer(10) integer(10) integer(10) integer(5)    | hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count  frequency_count frequency_count  time_count   | General description of the numerical model metadata Description of the AIS database used in the numerical models. Description of the emitted source levels in dB by vessel category according to their AIS ship type code First line indicating the ship type and second line the corresponding source level Description of the bathymetry database Description of the water column temperature database Description of model used to calculate the sound speed profile Description of the propagation model Description of the experimental data file used to calibrate numerical models. General description of ambient noise General description of the location Number of hydrophones Total number of points in the numerical grid Longitude coordinates vector in decimal degrees Latitude coordinates vector in decimal degrees Depth vector according to the mean reference sea level in meters General description of ambient noise frequencies Number of frequencies Describes the frequency band used and base Frequencies in Hz at which the SPL is calculated General description of ambient noise time Duration that the device is recording Unration that the device is recording Unration that the device is not recording. If the device is always recording type "0" Number of time entrances since start_datetime Time vector in POSIX time seconds General description of sound pressure levels (spl) Averaging time in seconds SPL over time for all covered frequency bands in dB re $1\mu Pa^2/Hz$ Using: $SPL(f) = 10log_{10} \left(\frac{P_s}{B\Delta f^2 P_{ref}}\right) - S(f)$  | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxx"  e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"  e.g."2" e.g."10"  e.g."2" e.g."30 minutes" e.g."30 minutes" e.g."30 minutes" e.g."1250" e.g."[1562151105,,1562153100]" e.g."1"  |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency frequency_count frequency_band_definition frequency /time time_duty_on time_duty_off time_count time /sound_pressure_levels averaging_time spl_values /sound_pressure_levels_stats                  | group attribute  dataset  attribute group dataset group attribute dataset dataset group   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(100) string(50)  integer(2) integer(10) float(10) float(10) float(5)  integer(10) integer(10) integer(10) integer(10) integer(5) float(10)   | hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count  frequency_count frequency_count  time_count   | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB by vessel category according to their AIS ship type code First line indicating the ship type and second line the corresponding source level Description of the bathymetry database  Description of the water column temperature database  Description of the water column salinity database  Description of model used to calculate the sound speed profile  Description of the propagation model  Description of the experimental data file used to calibrate numerical models.  General description of ambient noise  General description of the location  Number of hydrophones  Total number of points in the numerical grid  Longitude coordinates vector in decimal degrees  Latitude coordinates vector in decimal degrees  Depth vector according to the mean reference sea level in meters  General description of ambient noise frequencies  Number of frequencies  Describes the frequency band used and base  Frequencies in Hz at which the SPL is calculated  General description of ambient noise time  Duration that the device is recording  Duration that the device is not recording.  If the device is always recording type "0"  Number of time entrances since start_datetime  Time vector in POSIX time seconds  General description of sound pressure levels (spl)  Averaging time in seconds  SPL over time for all covered frequency bands in dB re $1\mu Pa^2/Hz$ Using: $SPL(f) = 10log_{10}\left(\frac{P_{A^2}}{B\Delta/P_{P^2-e}f}\right) - S(f)$ General description of sound pressure levels statistics   | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"  e.g."2" e.g."1/3-octave-band in base 2" e.g."63" and "126"  e.g."30 minutes" e.g."30 minutes" e.g."1250" e.g."[1562151105,,1562153100]"  e.g."1" e.g."[25,,30]"      |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency frequency_count frequency_band_definition frequency /time time_duty_on time_duty_off time_count time /sound_pressure_levels averaging_time spl_values /sound_pressure_levels_stats percentile_count | group attribute  dataset  attribute group dataset group attribute dataset group attribute dataset group attribute dataset group attribute dataset   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(100) string(50)  integer(2) integer(10) float(10) float(10) float(5)  integer(10) integer(10) integer(10) integer(10) float(10) float(10) integer(5) float(10) integer(5) float(10) integer(2) | hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count  frequency_count frequency_count  time_count  hydrophone/grid_count x frequency_count x time_count | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB by vessel category according to their AIS ship type code First line indicating the ship type and second line the corresponding source level Description of the bathymetry database  Description of the water column temperature database  Description of the water column salinity database  Description of the water column salinity database  Description of the propagation model  Description of the propagation model  Description of the experimental data file used to calibrate numerical models.  General description of ambient noise  General description of the location  Number of hydrophones  Total number of points in the numerical grid  Longitude coordinates vector in decimal degrees  Latitude coordinates vector in decimal degrees  Depth vector according to the mean reference sea level in meters  General description of ambient noise frequencies  Number of frequencies  Describes the frequency band used and base  Frequencies in Hz at which the SPL is calculated  General description of ambient noise time  Duration that the device is recording  Duration that the device is not recording.  If the device is always recording type "0"  Number of time entrances since start.datetime  Time vector in POSIX time seconds  General description of sound pressure levels (spl)  Averaging time in seconds  SPL over time for all covered frequency bands in dB re $1\mu Pa^2/Hz$ Using: $SPL(f) = 10log_{10} \left(\frac{P_s}{B\Delta f^2 P_{rel}^2}\right) - S(f)$ General description of sound pressure levels statistics  Number of percentiles   | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxx*"  e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"  e.g."2" e.g."1/3-octave-band in base 2" e.g."63" and "126"  e.g."30 minutes" e.g."30 minutes" e.g."30 minutes" e.g."1562151105,,1562153100]"  e.g."1" e.g."[25,,30]" |
| /numerical_model ais_database source_levels  bathymetry_database temperature_database salinity_database salinity_database sound_speed_profile_model propagation_model numeric_data_calibration  /ambient_noise_dataset /position hydrophone_count total_number_of_grid_points longitude latitude depth /frequency frequency_count frequency_band_definition frequency /time time_duty_on time_duty_off time_count time /sound_pressure_levels averaging_time spl_values /sound_pressure_levels_stats                  | group attribute  dataset  attribute group dataset group attribute dataset dataset group   | Yes | string(100) integer(10) string(100) string(100) string(100) string(100) string(100) string(50)  integer(2) integer(10) float(10) float(10) float(5)  integer(10) integer(10) integer(10) integer(10) integer(5) float(10)   | hydrophone/grid_count x time_count hydrophone/grid_count x time_count hydrophone/grid_count x time_count  frequency_count frequency_count  time_count   | General description of the numerical model metadata  Description of the AIS database used in the numerical models.  Description of the emitted source levels in dB by vessel category according to their AIS ship type code First line indicating the ship type and second line the corresponding source level Description of the bathymetry database Description of the water column temperature database Description of the water column salinity database Description of the propagation model Description of the propagation model Description of the experimental data file used to calibrate numerical models.  General description of ambient noise General description of the location Number of hydrophones Total number of points in the numerical grid Longitude coordinates vector in decimal degrees Latitude coordinates vector in decimal degrees Depth vector according to the mean reference sea level in meters  General description of ambient noise frequencies Number of frequencies Describes the frequency band used and base Frequencies in Hz at which the SPL is calculated General description of ambient noise time  Duration that the device is recording If the device is always recording type "0" Number of time entrances since start_datetime Time vector in POSIX time seconds  General description of sound pressure levels (spl)  Averaging time in seconds SPL over time for all covered frequency bands in dB re $1\mu Pa^2/Hz$ Using: $SPL(f) = 10log_{10} \left(\frac{P_{sp}}{B\Delta f^2 p_{ref}}\right) - S(f)$ General description of sound pressure levels statistics Number of percentiles List of percentiles   | e.g."AISHub - www.aishub.net" e.g."[50 60 80; 170 120 180] " e.g."GEBCO - www.gebco.net" e.g."COPERNICUS - www.copernicus.eu" e.g."K.Mackenzie-nine-term equation" e.g."Kraken" e.g."data_uidn:xxxx-xxxx-xxxxx"  e.g."1000" e.g."[40.446,,41.115]" e.g."[79.982,,81.281]" e.g. "10"  e.g."2" e.g."1/3-octave-band in base 2" e.g."63" and "126"  e.g."30 minutes" e.g."30 minutes" e.g."1562151105,,1562153100]"  e.g."1" e.g."[25,,30]"                  |