MDDF - types

Existing types of MDDF

CHEMICAL WATER PROPERTIES

Data details

'd' structure contains fields:

- **Station_codename** – vector of char type specifying code name of the station
- ***Measurements*** – structure containing the following fields:
  - ***Measurements.Date*** – vector of real numbers containing 'matlab' time
  - **Measurements.Tests** – structure containing the following fields:
    - **Measurements.Tests.Test_name_id** – vector of integer numbers specifying id of measured parameter/test
    - **Measurements.Tests.Result** – vector of real numbers specifying result of measured parameter/test
  - **Measurements.Stage (optional)** – vector of char type specifying stage of monitoring

'TestParameters' structure contains fields:

- **Test_name** – vector of char type specifying name of test/measured parameter
- ***Unit*** – vector of char type specifying unit of test/measured parameter
- ***Type*** – vector of integer numbers containing data type number
- **Technique (optional)** – vector of char type specifying technique
- **LOD (optional)** – vector with 2 columns of real numbers specifying limit of detection (Lower and Upper)
- **LODType (optional)** – vector of integer numbers specifying data type number of LOD

Field details

dDescription

- **Station_codename** – Code name of the station
- ***Measurements*** – Number of measurements or sample collection in the field. Structure containing the following fields: …
  - ***Measurements.Date*** – Time of measured parameter
  - **Measurements.Tests** – Number of mesured parameter. Structure containing the following fields: …
    - **Measurements.Tests.Test_name_id** – Id of measured parameter
    - **Measurements.Tests.Result** – Result of measured parameter
  - **Measurements.Stage (optional)** – Stage of monitoring

TestParametersDescription

- **Test_name** – Name of measured parameter
- ***Unit*** – Unit of measured parameter
- ***Type*** – Data type number
- **Technique (optional)** – Technique
- ***LOD (optional)*** – Limit of detection (Lower and Upper)
- ***LODType (optional)*** – Data type number of LOD

TestParameters: existing Test_name – [Unit] – Type :

- Cl- - [mg/l] - 1
- Fe(2+)_Fe(3+) - [mg/l] - 1
- NH4+ - [mg/l] - 1
- NO2(2-) - [mg/l] - 1
- NO3- - [mg/l] - 1
- S- - [mg/l] - 1
- SO4(2-) - [mg/l] - 1

Files associated with format:

- *MDDF_LUBOCINO_chemical_water_properties_site_visit [chemical water properties - site visit]*

PHYSICAL WATER PROPERTIES

Data details

'd' structure contains fields:

- **Station_codename** – vector of char type specifying code name of the station

- ***Measurements*** – structure containing the following fields:
    - ***Measurements.Date*** – vector of real numbers containing ‘matlab’ time
    - **Measurements.Tests** – structure containing the following fields:
        - **Measurements.Tests.Test_name_id** – vector of integer numbers specifying id of measured parameter/test
        - **Measurements.Tests.Result** – vector of real numbers specifying result of measured parameter/test
    - **Measurements.Stage (optional)** – vector of char type specifying stage of monitoring

‘TestParameters’ structure contains fields:

- **Test_name** – vector of char type specifying name of test/measured parameter
- ***Unit*** – vector of char type specifying unit of test/measured parameter
- ***Type*** – vector of integer numbers containing data type number

Field details

dDescription

- **Station_codename** – Code name of the station
- ***Measurements*** – Number of measurements or sample collection in the field. Structure containing the following fields: …
    - ***Measurements.Date*** – Time of measured parameter
    - **Measurements.Tests** – Number of mesured parameter. Structure containing the following fields: …
        - **Measurements.Tests.Test_name_id** – Id of measured parameter
        - **Measurements.Tests.Result** – Result of measured parameter
    - **Measurements.Stage (optional)** – Stage of monitoring

TestParametersDescription

- **Test_name** – Name of measured parameter
- ***Unit*** – Unit of measured parameter
- ***Type*** – Data type number

TestParameters: existing Test_name – [Unit] – Type :

- Aquifer roof depth - [m] - 22
- Water table depth - [m] - 22
- Water table elevation - [m] – 22

Files associated with format:

- *MDDF_LUBOCINO_water_table [physical water properties - site visit]*

PHYSICOCHEMICAL WATER PROPERTIES

Data details

‘d’ structure contains fields:

- **Station_codename** – vector of char type specifying code name of the station
- ***Measurements*** – structure containing the following fields:
    - ***Measurements.Date*** – vector of real numbers containing ‘matlab’ time
    - **Measurements.Tests** – structure containing the following fields:
        - **Measurements.Tests.Test_name_id** – vector of integer numbers specifying id of measured parameter/test
        - **Measurements.Tests.Result** – vector of real numbers specifying result of measured parameter/test
    - **Measurements.Stage (optional)** – vector of char type specifying stage of monitoring
    - **Measurements.Measurement_method (optional)** – vector of char type specifying method of measurement

‘TestParameters’ structure contains fields:

- **Test_name** – vector of char type specifying name of test/measured parameter
- ***Unit*** – vector of char type specifying unit of test/measured parameter
- ***Type*** – vector of integer numbers containing data type number
- **Technique (optional)** – vector of char type specifying technique

Field details

dDescription

- **Station_codename** – Code name of the station
- ***Measurements*** – Number of measurements or sample collection in the field. Structure containing the following fields: …
    - ***Measurements.Date*** – Time of measured parameter
    - **Measurements.Tests** – Number of mesured parameter. Structure containing the following fields: …
        - **Measurements.Tests.Test_name_id** – Id of measured parameter
        - **Measurements.Tests.Result** – Result of measured parameter

    - **Measurements.Stage (optional)** – Stage of monitoring
    - **Measurements.Measurement_method (optional)** – Method of measurement

TestParametersDescription

- **Test_name** – Name of measured parameter
- ***Unit*** – Unit of measured parameter
- ***Type*** – Data type number
- **Technique (optional)** – Technique

TestParameters: existing Test_name – [Unit] – Type :

- Alkalinity – [mmol/l] – 11
- Dissolved Oxygen – [mg/l] – 22
- Oxydation Reduction Potential – [mV] – 31
- Oxygen – [mg/l] – 22
- pH – [dimensionless] – 12
- Total Dissolved Solids – [g/l] – 14
- Total Pressure – [mH2O] - 22
- Water Hardness determined as CaCO3 content – [mg/l] – 31
- Water Specific Conductivity – [mS/cm, uS/cm] – 13, 31
- Water Temperature – [Celcius deg] – 22, 21

Files associated with format:

- *MDDF_LUBOCINO_physicochemical_water_properties_site_visit [physicochemical water properties - site visit]*
- *MDDF_WYSIN_physicochemical_water_properties [physicochemical water properties]*
- *MDDF_WYSIN_physicochemical_water_properties_site_visit [physicochemical water properties - site visit]*

WATER LAB ANALYSES

Data details

'd' structure contains fields:

- **Station_codename** – vector of char type specifying code name of the station
- ***Measurements*** – structure containing the following fields:
    - ***Measurements.Date*** – vector of real numbers containing 'matlab' time
    - **Measurements.Tests** – structure containing the following fields:
        - **Measurements.Tests.Test_name_id** – vector of integer numbers specifying id of measured parameter/test
        - **Measurements.Tests.Result** – vector of real numbers specifying result of measured parameter/test
        - **Measurements.Tests.*Result_duplicate (optional)*** – vector of real numbers specifying result of quality assurance check of measured parameter/test
    - **Measurements.Stage (optional)** – vector of char type specifying stage of monitoring

'TestParameters' structure contains fields:

- **Test_name** – vector of char type specifying name of test/measured parameter
- ***Unit*** – vector of char type specifying unit of test/measured parameter
- ***Type*** – vector of integer numbers containing data type number
- **Technique (optional)** – vector of char type specifying technique
- **LOD (optional)** – vector with 2 columns of real numbers specifying limit of detection (Lower and Upper)
- **LODType (optional)** – vector of integer numbers specifying data type number of LOD
- **Accreditation (optional)** – vector of char type specifying accreditation body

Field details

dDescription

- **Station_codename** – Code name of the station
- ***Measurements*** – Number of measurements or sample collection in the field. Structure containing the following fields: …
    - ***Measurements.Date*** – Time of measured parameter
    - **Measurements.Tests** – Number of mesured parameter. Structure containing the following fields: …
        - **Measurements.Tests.Test_name_id** – Id of measured parameter
        - **Measurements.Tests.Result** – Result of measured parameter
        - **Measurements.Tests.*Result_duplicate (optional)*** – Quality assurance check
    - **Measurements.Stage (optional)** – Stage of monitoring

TestParametersDescription

- **Test_name** – Name of measured parameter
- ***Unit*** – Unit of measured parameter

- ***Type*** – Data type number
- **Technique (optional)** – Technique
- ***LOD (optional)*** – Limit of detection (Lower and Upper)
- ***LODType (optional)*** – Data type number of LOD
- ***Accreditation (optional)*** – Accreditation body

TestParameters: existing Test_name – [Unit] – Type :

- 2,3,4,5-tetrachlorophenol - [ug/l] - 1
- 2,3,4,6-tetrachlorophenol - [ug/l] - 1
- 2,3,4-trichlorophenol - [ug/l] - 1
- 2,3,5,6-tetrachlorophenol - [ug/l] - 1
- 2,3,5-trichlorophenol - [ug/l] - 1
- 2,3,6-trichlorophenol - [ug/l] - 1
- 2,3-dichlorophenol - [ug/l] - 1
- 2,4,5-trichlorophenol - [ug/l] - 1
- 2,4,6-trichlorophenol - [ug/l] - 1
- 2,4_and_2,5-dichlorophenol - [ug/l] - 1
- 2,6-dichlorophenol - [ug/l] - 1
- 2-chlorophenol - [ug/l] - 1
- 3,4,5-trichlorophenol - [ug/l] - 1
- 3,4-dichlorophenol - [ug/l] - 1
- 3,5-dichlorophenol - [ug/l] - 1
- 3-chlorophenol - [ug/l] - 1
- 4-chlorophenol - [ug/l] - 1
- Acenaphthalene - [ug/l] - 1
- Ag - [ug/l] - 1
- Al - [ug/l] - 1
- Aldrin - [ug/l] - 1
- Alkalinity expressed as CaCO3 - [mg/l] - 1
- Alpha-HCH - [ug/l] - 1
- Aluminium - [mg/l] - 1
- Anthracene - [ug/l] - 1
- As - [ug/l] - 1
- B - [ug/l, mg/l] - 1
- Ba - [ug/l] - 1
- Be - [ug/l] - 1
- Benz(a)anthracene - [ug/l] - 1
- Benzo(a)pyrene - [ug/l] - 1
- Benzo(b)fluoranthene - [ug/l] - 1
- Benzo(g,h,i)perylene - [ug/l] - 1
- Benzo(k)fluoranthene - [ug/l] - 1
- Beta-HCH - [ug/l] - 1
- Beznene - [ug/l] - 1
- Br- - [mg/l] - 1
- BTEX_total - [ug/l] - 1
- C2H6 - [mg/l] - 1
- C3H8 - [mg/l] - 1
- Ca - [ug/l, mg/l] - 1
- Cd - [ug/l] - 1
- CH4 - [mg/l] - 1
- Chrysene - [ug/l] - 1
- Cl- - [ug/l, mg/l] - 1
- CN - [ug/l] - 1
- Co - [ug/l] - 1
- CO2 - [mg/l] - 1
- Cr - [ug/l] - 1
- Cu - [ug/l] - 1
- Delta-HCH - [ug/l] - 1
- Dibenzo(a,h)anthracene - [ug/l] - 1
- Ethylbenzene - [ug/l] - 1
- Ethylene - [mg/l] - 1
- F- - [ug/l, mg/l] - 1
- Fe - [ug/l, mg/l] - 1
- Fluoranthene - [ug/l] - 1
- Fluorene - [ug/l] - 1
- Gamma-HCH - [ug/l] - 1
- HCO(3-) - [ug/l] - 1
- Hg - [ug/l] - 1
- Indeno(1,2,3-c,d)pyrene - [ug/l] - 1
- Isopropanol - [ug/l] - 1
- K - [ug/l, mg/l] - 1
- Li - [mg/l] - 1

- m-,p-xylene - [ug/l] - 1
- Mg - [ug/l, mg/l] - 1
- Mineral_oil_C12_C35 - [ug/l] - 1
- Mineral_oil_index(C10-C40) - [ug/l] - 1
- Mn - [ug/l] - 1
- Mo - [ug/l] - 1
- Na - [ug/l, mg/l] - 1
- Naphthalene - [ug/l] - 1
- NH4+ - [ug/l] - 1
- Ni - [ug/l] - 1
- NO2- - [ug/l] - 1
- NO3- - [ug/l] - 1
- o,p'-DDT - [ug/l] - 1
- o-xylene - [ug/l] - 1
- p,p'-DDT - [ug/l] - 1
- PAH_total - [ug/l] - 1
- Pb - [ug/l] - 1
- Pentachlorophenol - [ug/l] - 1
- Petrol_sum_C6_C12 - [ug/l] - 1
- Phenantrene - [ug/l] - 1
- Phenol - [ug/l] - 1
- PO4(3-) - [ug/l] - 1
- Pyrene - [ug/l] - 1
- S- - [ug/l] - 1
- Sb - [ug/l] - 1
- Se - [ug/l] - 1
- Si - [ug/l] - 1
- Sn - [ug/l] - 1
- SO4 - [mg/l] - 1
- SO4(2-) - [ug/l] - 1
- Sr - [ug/l] - 1
- Styrene - [ug/l] - 1
- Tetrachloroeten - [ug/l] - 1
- Ti - [ug/l] - 1
- Tl - [ug/l] - 1
- Toulene - [ug/l] - 1
- Trichloroeten - [ug/l] - 1
- U - [ug/l] - 1
- V - [ug/l] - 1
- Zn - [ug/l] - 1

Files associated with format:

- *MDDF_LUBOCINO_water_lab_analyses [water lab analyses]*
- *MDDF_WYSIN_water_lab_analyses [water lab analyses]*

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