**Abundances**

Database model documentation

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# 1. Model details

**Model name:** 
Abundances

**Version:** 
2.4

**Database engine:** 
PostgreSQL

# 2. Tables

## 2.1. Table trialsusage

**Description:** 
This column was previously also called AWMP or rmp

2.1.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| code | varchar(10) | PK |  |
| description | varchar(200) |  |  |

## 2.2. Table abundances

2.2.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| id | int | PK |  |
| year | smallint | null |  |
| yearrange | varchar(20) | null |  |
| startyear | smallint | null |  |
| endyear | smallint | null |  |
| estimate | real |  |  |
| cv | real | null |  |
| cvav | real | null |  |
| cvcalculated | real | null |  |
| sd | real | null |  |
| lci | real | null |  |
| uci | real | null |  |
| pl | real | null |  |
| pu | real | null |  |
| season | varchar(30) | null |  |
| gnull | real | null |  |
| areacoverage | real | null |  |
| notes | text | null |  |
| dateadded | date | null |  |
| datemodified | date | null |  |
| onweb | char(1) | null |  |
| webestimate | real | null |  |
| webci | varchar(20) | null |  |
| subarea\_subarea | varchar(100) |  |  |
| category\_code | varchar(2) |  |  |
| evaluationextent\_code | varchar(1) | null |  |
| mode\_code | varchar(5) | null |  |
| type\_code | varchar(6) | null |  |
| internal\_notes | text | null |  |
| species\_speciescode | varchar(10) |  |  |
| trialsusage\_code | varchar(10) | null |  |
| method\_code | varchar(10) | null |  |
| correction\_code | varchar(20) | null |  |
| surveyprogramme\_code | varchar(25) | null |  |

## 2.3. Table subarea

2.3.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| subarea | varchar(60) | PK |  |
| species | varchar(40) |  |  |
| survey | varchar(25) | null |  |
| description | varchar(100) |  |  |
| geom | geometry |  |  |
| largeareas\_code | varchar(3) |  |  |

## 2.4. Table category

2.4.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| code | varchar(2) | PK |  |
| description | text |  |  |

## 2.5. Table correction

2.5.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| code | varchar(20) | PK |  |
| description | varchar(110) |  |  |

## 2.6. Table evaluationextent

2.6.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| code | varchar(1) | PK |  |
| description | text |  |  |

## 2.7. Table method

2.7.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| code | varchar(10) | PK |  |
| description | varchar(100) |  |  |

## 2.8. Table mode

2.8.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| code | varchar(5) | PK |  |
| description | varchar(100) |  |  |

## 2.9. Table largeareas

**Description:** 
reference table that refers to oceans and large regions

2.9.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| code | varchar(3) | PK |  |
| name | varchar(20) |  |  |
| geom | geometry |  |  |

## 2.10. Table surveyprogramme

2.10.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| code | varchar(25) | PK |  |
| description | varchar(100) |  |  |

## 2.11. Table references\_abundances

**Description:** 
this table connects the references table (the citation information) with abundances. I.e. this abundance row has this reference. This table is necessary as an intermediate because some abundance rows have multiple references and multiple rows can refer to the same reference.

2.11.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| id | int | PK |  |
| abundances\_id | int |  |  |
| references\_endnote | varchar(5) |  |  |

## 2.12. Table species

2.12.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| speciescode | varchar(10) | PK |  |
| scientificname | varchar(70) |  |  |
| commonname | varchar(40) |  |  |
| altname | varchar(40) | null |  |

## 2.13. Table type

2.13.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| code | varchar(6) | PK |  |
| description | varchar(50) |  |  |

## 2.14. Table references

2.14.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| endnote | varchar(5) | PK |  |
| summary\_ref | varchar(50) |  |  |
| species | varchar(20) |  |  |
| full\_ref | text |  |  |

## 2.15. Table combinations

2.15.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| id | int | PK |  |
| year | smallint | null |  |
| yearrange | varchar(20) | null |  |
| startyear | smallint | null |  |
| endyear | smallint | null |  |
| estimate | real |  |  |
| cv | real | null |  |
| cvcalculated | real | null |  |
| sd | real | null |  |
| lci | real | null |  |
| uci | real | null |  |
| pl | real | null |  |
| pu | real | null |  |
| notes | text | null |  |
| onweb | char(1) | null |  |
| webestimate | real | null |  |
| webci | varchar(20) |  |  |
| species\_speciescode | varchar(10) |  |  |
| subarea\_subarea | varchar(60) |  |  |
| trialsusage\_code | varchar(10) | null |  |

## 2.16. Table abundances\_combinations

**Description:** 
this table connects the combinations with abundances (showing what rows in the abundances are being summed to form those combinations).

2.16.1. Columns

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Type** | **Properties** | **Description** |
| id | int | PK |  |
| abundances\_id | int |  |  |
| combinations\_id | int |  |  |

# 3. References

## 3.1. Reference abundances\_subarea

|  |  |  |
| --- | --- | --- |
| **subarea** | **0..\*** | **abundances** |
| subarea | <-> | subarea\_subarea |

## 3.2. Reference abundances\_category

|  |  |  |
| --- | --- | --- |
| **category** | **0..\*** | **abundances** |
| code | <-> | category\_code |

## 3.3. Reference abundances\_evaluationextent

|  |  |  |
| --- | --- | --- |
| **evaluationextent** | **0..\*** | **abundances** |
| code | <-> | evaluationextent\_code |

## 3.4. Reference abundances\_mode

|  |  |  |
| --- | --- | --- |
| **mode** | **0..\*** | **abundances** |
| code | <-> | mode\_code |

## 3.5. Reference abundances\_type

|  |  |  |
| --- | --- | --- |
| **type** | **0..\*** | **abundances** |
| code | <-> | type\_code |

## 3.6. Reference references\_abundances\_abundances

|  |  |  |
| --- | --- | --- |
| **abundances** | **0..\*** | **references\_abundances** |
| id | <-> | abundances\_id |

## 3.7. Reference Table\_17\_abundances

|  |  |  |
| --- | --- | --- |
| **abundances** | **0..\*** | **abundances\_combinations** |
| id | <-> | abundances\_id |

## 3.8. Reference Table\_17\_combinations

|  |  |  |
| --- | --- | --- |
| **combinations** | **0..\*** | **abundances\_combinations** |
| id | <-> | combinations\_id |

## 3.9. Reference abundances\_species

|  |  |  |
| --- | --- | --- |
| **species** | **0..\*** | **abundances** |
| speciescode | <-> | species\_speciescode |

## 3.10. Reference subarea\_largeareas

|  |  |  |
| --- | --- | --- |
| **largeareas** | **0..\*** | **subarea** |
| code | <-> | largeareas\_code |

## 3.11. Reference references\_abundances\_references

|  |  |  |
| --- | --- | --- |
| **references** | **0..\*** | **references\_abundances** |
| endnote | <-> | references\_endnote |

## 3.12. Reference abundances\_trialsusage

|  |  |  |
| --- | --- | --- |
| **trialsusage** | **0..\*** | **abundances** |
| code | <-> | trialsusage\_code |

## 3.13. Reference abundances\_method

|  |  |  |
| --- | --- | --- |
| **method** | **0..\*** | **abundances** |
| code | <-> | method\_code |

## 3.14. Reference abundances\_correction

|  |  |  |
| --- | --- | --- |
| **correction** | **0..\*** | **abundances** |
| code | <-> | correction\_code |

## 3.15. Reference abundances\_surveyprogramme

|  |  |  |
| --- | --- | --- |
| **surveyprogramme** | **0..\*** | **abundances** |
| code | <-> | surveyprogramme\_code |

## 3.16. Reference combinations\_species

|  |  |  |
| --- | --- | --- |
| **species** | **0..\*** | **combinations** |
| speciescode | <-> | species\_speciescode |

## 3.17. Reference combinations\_subarea

|  |  |  |
| --- | --- | --- |
| **subarea** | **0..\*** | **combinations** |
| subarea | <-> | subarea\_subarea |

## 3.18. Reference combinations\_trialsusage

|  |  |  |
| --- | --- | --- |
| **trialsusage** | **0..\*** | **combinations** |
| code | <-> | trialsusage\_code |

# 4. Subject areas

## 4.1. Subject area Reference Tables

4.1.1. Tables  
 - trialsusage  
 - subarea  
 - category  
 - correction  
 - evaluationextent  
 - method  
 - mode  
 - largeareas  
 - surveyprogramme  
 - species  
 - type

4.1.2. External Tables

4.1.3. Views  
 - trialsusage  
 - subarea  
 - category  
 - correction  
 - evaluationextent  
 - method  
 - mode  
 - largeareas  
 - surveyprogramme  
 - species  
 - type

4.1.4. Materialized Views  
 - trialsusage  
 - subarea  
 - category  
 - correction  
 - evaluationextent  
 - method  
 - mode  
 - largeareas  
 - surveyprogramme  
 - species  
 - type

4.1.5. References  
 - trialsusage  
 - subarea  
 - category  
 - correction  
 - evaluationextent  
 - method  
 - mode  
 - largeareas  
 - surveyprogramme  
 - species  
 - type