

KNMI IRIS

Overview

Imports time series data with observed daily rainfall from the KNMI that is delivered to the Dutch waterboards. The files are in CSV format with file extension (*.dat) the next definition in the file:

<location ID>, <location name>, <X in km>, <Y in km>, <date in YYYYMMDD>, <value in 0.1 mm>. See the example file and the [KNMI site](#).

Notice that the rainfall is measured at 08:00 UT (=GMT), but this time is not written in the file. Therefore the time will be read by the FEWS import reader as 00:00 hours. The rainfall is supplied as an accumulative time series over the last 24 hours. This requires the time step in FEWS to be configured as

```
<timeStep unit="day" multiplier="1" timeZone="GMT-8" />
```

More information on the KNMI rainfall data sets can be found on the KNMI website

Configuration (Example)

A complete import module configuration consists of an ID Mapping file and a Import Module Instance file. To convert the rainfall in a proper unit (from 0.1 mm/day to mm/day for example) it is also required to configure a Unit Conversion file.


ModuleConfigFiles

The following example of an Import Module Instance will import the time series as equidistant series for timezone GMT with a time step of 24 hours.

ImportKNMI.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<timeSeriesImportRun .....
```

IdMapFiles


 Defines mappings between KNMI and FEWS parameters and locations.

sample of IdImportEPS.xml

```
<idMap version="1.1" .....>
  <map internalParameter="P.meting" internalLocation="KNMI_827" externalParameter="827" externalLocation="827"/>
  <map internalParameter="P.meting" internalLocation="KNMI_831" externalParameter="831" externalLocation="831"/>
  <map internalParameter="P.meting" internalLocation="KNMI_896" externalParameter="896" externalLocation="896"/>
  <map internalParameter="P.meting" internalLocation="KNMI_902" externalParameter="902" externalLocation="902"/>
  ....
</idMap>
```

Important in this configuration is the externalParameter and the externalLocation have the same identifier.


UnitConversionFile

 Defines the conversion of the units that should be applied.

sample of ImportKNMIUnits.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<unitConversions .....>
  <unitConversion>
    <inputUnitType>0.1 mm/d</inputUnitType>
    <outputUnitType>mm/d</outputUnitType>
    <multiplier>0.1</multiplier>
    <incrementer>0</incrementer>
  </unitConversion> .....
  .....
</unitConversions>
```

Example file

 An example of a csv-file from IRIS to be imported using the KNMI-IRIS import Module.

sample of irisgegevens_20071025.dat

10,HOLLUM	, 172, 605,20071028,	0
11,WEST TERSCHELLING	, 144, 598,20071028,	0
16,PETTEN	, 106, 531,20071028,	0
17,DEN BURG	, 116, 563,20071028,	1
18,NES (AMELAND)	, 181, 607,20071028,	0
19,DE COCKSDORP	, 121, 575,20071028,	2
21,CALLANTSOOG	, 109, 541,20071028,	0
26,FORMERUM	, 149, 601,20071028,	1
64,SNEEK	, 172, 561,20071028,	0
65,MAKKUM	, 156, 564,20071028,	1
67,DOKKUM	, 195, 593,20071028,	0
69,APPELSCHA	, 219, 553,20071028,	0
73,DRACHTEN	, 203, 570,20071028,	0

Example Files

See attached files

Java source code

[KnmIrisTimeSeriesParser.java](#)