

KNMI SYNOP

Overview

Imports time series data with observed hourly values from the KNMI that is delivered to the Dutch waterboards. The files are in a kind of CSV format with file extension (*.txt), where not a comma but a ";" is used as separator. See for a detailed contents and definition of the file the [KNMI site](#).

Notice that the parameters are not listed in the file. The parameters are hard coded in the import routines as defined at the [KNMI site](#). Notice also that text fields like "cloudy" are not imported. Only parameters that contain values should be read, like rainfall (RhRhRh).

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/hr to mm/hr 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 6 hours.

ImportKNMI.xml

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

IdMapFiles




Defines mappings between KNMI and FEWS parameters and locations.

sample of IdlImportEPS.xml

```
<idMap version="1.1" .....>
  <map internalParameter="P.meting" internalLocation="KNMI_370" externalParameter="RhRhRh" externalLocation="
06370" />
  <map internalParameter="P.meting" internalLocation="KNMI_479" externalParameter="RhRhRh" externalLocation="
06479" />
</idMap>
```

Important in this configuration is that the externalParameter are as defined at the [KNMI site](#). They are not listed in the import files and therefore hard coded in the import routines.


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/hr</inputUnitType>
    <outputUnitType>mm/hr</outputUnitType>
    <multiplier>0.1</multiplier>
    <incrementer>0</incrementer>
  </unitConversion> .....
</unitConversions>
```

Example file

 Defines the conversion of the units that should be applied.

sample of 2007102503_decoded_synops_NL.txt

```
2007102503;06209; ; ; ; 0 m.; ; ; ; ;
; ; ; ; ; ; ; ; 0.0; ; ; ;
2007102503;06210;VALKENBURG;52.15; 4.42; 0 m.;5;cloudy;8;ENE; 3; 5;
7.6; ; ; ; ; 5.1; 84;13000;1025.7; ; 0.0; ; ; ; 70;
2007102503;06225;IJMUIDEN;52.47; 4.57; 13 m.;6;; ;E; 6; 9;
; ; ; ; ; ; ; ; 0.0; ; ; ; 80;
2007102503;06229;TEXELHORS WP;53.00; 4.72; 1 m.;6;; ;ESE; 7; 10;
; ; ; ; ; ; ; ; 0.0; ; ; ; 110;
2007102503;06235;DE KOOY;52.93; 4.78; 0 m.;5;cloudy;8;E; 4; 9;
8.5; ; ; ; ; 5.1; 79;30000;1026.8; ; 0.0; ; ; ; 100;
2007102503;06239; ; ; ; ; 29 m.; ; ; ; ; ;
; ; ; ; ; ; ; ; 0.0; ; ; ; ;
2007102503;06240;AMSTERDAM AP SCHIPHOF;52.30; 4.77; -4 m.;5;cloudy;8;E; 3; 7;
7.8; ; ; ; ; 5.3; 84;16000;1026.0; ; 0.0; ; ; ; 80;
```

Example Files

See attached files

h3 Java source Code
[KnmiSynopsTimeSeriesParser.java](#)