

# GeoDatum

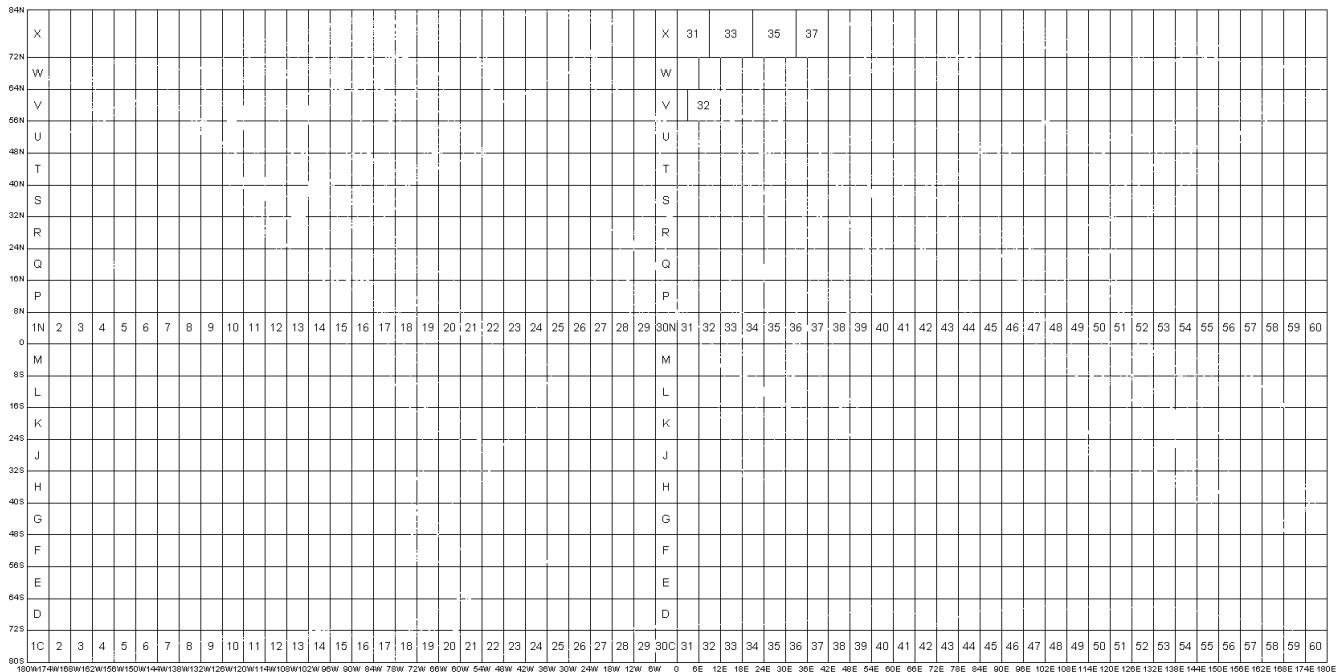
Delft-FEWS may use a number of national coordinate system as geo-datum. These are referenced by all configurations requiring a definition of geodatum.

All coordinates are handled internally as WGS 1984 (longitude-latitude). To add a new coordinate system to Delft-FEWS, the transformation between WGS-1984 and that system will need to be added as a Java class to Delft-FEWS.

The lists of GeoDatum supported are (amongst many others):

- + **WGS 1984** (Geographic projection; longitude-latitude)
- + **SVY21** (Singapore)
- + **Ordnance Survey Great Britain 1936** (Great Britain)
- + **CH1903** (Switzerland)
- + **Rijks Driehoekstelsel** (The Netherlands)
- + **Gauss Krueger Austria M34** (Austria)
- + **Gauss Krueger Austria M31** (Austria)
- + **Gauss Krueger Meridian3** (Germany)
- + **TWD 1967** (Taiwan)

The user can also specify the UTM zone - this should be in the form UTM48N or UTM48S. The zones are shown below:



The geoDatum can also be configured as EPSG code, information on EPSG codes can be found on the internet (<https://epsg.io/>). The EPSG code is a 4-5 digit number that represent the coordinate reference system definition. The acronym EPSG, comes from the, now defunct, European Petroleum Survey Group. In the Map Layer definition of the Delft-FEWS Explore.xml or SpatialDisplay.xml the geoDatum can be configured as: <geoDatum>EPSG:26191</geoDatum>

A geoDatum can also be specified in a projection file, this file is many time available together with ArcInfo Shape files.