



## Release notes PCTrans 5.1 (20210630)

- ITRS – ETRS – WGS conversion has changed. WGS84 corresponds with ITRS, so the only calculations are to and from ITRS and ETRS. The calculations now match the EUREF directive. ([www.epncb.oma.be](http://www.epncb.oma.be))
- ECEF – ECEF conversion is now calculated in accordance with the EUREF directive. ([www.epncb.oma.be](http://www.epncb.oma.be))
- The modules division has changed, see above. As a result, the first time the application starts after installation of this version, the existing data menu structure will be updated if you references the same data folder.
- The ‘Tidal reduction levels’ module now handles XML data file processing correctly.
- The Help has been updated to include the XML data option with each module’s file input field.
- The programme size is 38 MB.



## Release notes PCTrans 5.1 (20200615)

- Conversion of ETRS89 to and from RDNAP 2018 has been added.
- The matrix for the new LAT datum and the accompanying geoid datum (2018) has been added.
- The new World Magnetic Model 2020 has been added.
- The UTM-related projection modules are now located in a separate “UTM projection” item in the main menu.
- Module organisation is now managed differently. As a result, the first time the application starts after the installation of this version, the existing data menu structure will be updated if it references the same data folder.
- A new application, “HelpViewer”, has been added to display each module's help and documentation. These can be called up via the question mark in a module. The existing help view will be phased out in a future release.
- The application has increased in size from 25 to 38 MB.



## Release notes for PCTrans 5.0 (20180601)

- Enabling and disabling, via preferences, the reading and saving of altitude figures is now interpreted correctly.
- In the geographic position entry control, the relevant hemisphere (northern, southern, eastern or western) is indicated using a globe icon.
- For folder names with spaces, data file entry was defective and has been improved.
- The help files have been converted to a higher resolution. As a result, the size of the installation package has increased by 10MB; however, the information is better legible.



## Release notes for PCTrans 5.0 (20180501)

- The preferences windows for file input and output have changed. The layout and a number of labels have been adjusted. An option has also been added for the default view of Horizontal reference surfaces: per Region or per Date.
- The calculation method from RDNAP to Geographic has been enhanced with the Ellipsoid as reference height, alongside the NAP and MSL.
- When converting from RDNAP to Geographic using file input, the file output contains a notification \*Height outside NAP grid\* if the position falls outside the NAP grid.
- From version 20180201, conversions from Geographic to RDNAP were incorrectly calculated for height values without decimals.
- For the method 'Geodetic computations/Nearest approach,' the options for line type (geodetic or loxodrome) were removed. The line type set at line definition is used for both lines.

A workaround for limitation 20160520 "Running PCTrans for the first time" has been found. The name of the Data folder will be written with a different programme. To do so, this programme will request administrative access.



## Release notes for PCTrans 5.0 (20180201)

- 2018/2019 parameters have been added for realisations of ETRF2000, ITRF2008 and WGS-G1674.
- Entry in the geographic coordinate panel has been improved.
- Entry/selection and display of horizontal date has been improved.
- Network drives are now visible in the file choice menu.
- Input and output file names are now visible with tooltip.
- Last used folder is now remembered.
- Possible to set a standard directory for data files (under Preferences).

A workaround for limitation 20160520 “Running PCTrans for the first time” has been found. The name of the Data folder will be written with a different programme. To do so, this programme will request administrative access.



## Release notes for PCTrans 5.0 (20170322)

### Problems solved

- In the Geographic Transformation module: 'ETRS89 to ITRS' sets accuracy incorrectly.
- When entered, the date 1 January is incorrectly interpreted by all ETRS/ITRS/WGS84 modules. As a result of this, the choice of parameter realisations from the previous year is displayed.
- 2017 parameters have been added for realisations of ETRF2000, ITRF2008 and WGS-S1674.

The limitations described for version 20160520 still apply.



## Release notes for PCTrans 5.0 (20161128)

### **Problems solved:**

In the 'RD x, y, H, geographic' projection module, errors can occur during the loading of files containing X, Y, H coordinates.

The limitations described for version 20160520 still apply.



## Release notes for PCTrans 5.0 (20161003)

When first opening PCTrans, a disclaimer is shown which has to be accepted in order to continue.



## Release notes for PCTrans 5.0 (20160829)

### Problems solved:

- entry of an XYZ data file of any module is not correctly interpreted. Inputting the settings with the assistance of the preference page did not work;
- it is not possible to change the transformation parameters in the chart projection modules;
- the Horizontal Datum cannot be changed in the Gauss-Kruger module;
- upon entry of a depth value, the Various computations – Tidal reduction levels module gives an incorrect result in the level field.

### New output:

- The Meridian convergence and Scale factor are now displayed. This information is not generated when using an in/output file.

A side effect of this display is that a more precise coordinate is required for map projection. The 'mm.xx' option has now been added to the preference page.

The limitations described for version 20160520 still apply.



## Release notes for PCTrans 5.0 (20160628)

The `projection_parameter` field as used in the 'projectionGeographic <-> (U)TM' module and in all 'co-ordinatetransformation' modules did not work properly in version 20160520.

This is the only problem that has been resolved in the improved version 20160628.  
The following pages contain information about the renewed PCTrans5.



## Release notes for PCTrans 5.0 (20160520)

PCTrans 5.0 is the successor to PCTrans 4.2.10.

The interface has been entirely rewritten in c# using Microsoft's .NET Framework.

The transformation calculations are performed with the aid of the open source Proj4Net library.

The conversion from and to RDNAP2008 and execution of ECEF value have been added to this library.

Geodetic functions have been converted from C++ Borland code in PCTrans4.x, to c# in this version.

The starting point for this version is the use of XML-structured data. The configuration files, help files, transformation parameters and various grid data have been converted to XML; the Point of Interest (POI) has also been converted to an XML data file instead of a database.

Output data can be saved in an XML-structured file for point, line or circle geometries and in an ASCII flat file for X, Y, Z data.

Drawing of data on screen and creation of KML file format are no longer supported.

Language used in the programme is English.

An additional feature is the Point of Interest store function, with which it is possible to save a point, line or circle with extra information such as status, name or label. Once saved, you can edit and delete these items or use them in other calculation modules.



## Release notes for PCTrans 5.0 (20160520)

PCTrans 5.0 has two versions:

A: Stand-alone version: PCTrans\_SA

B: Network version: PCTrans\_WCF

Ad. A: Interface and modules are stored together in a local or shared directory.

Ad. B: Interface will be stored on a local or shared directory and the data handling and software will be under the control of a web server.

Known issues:

Help / ? :

A click on the Help or Question mark on the pages will start a programme which runs a web browser control to display HTML pages. This is not the PC's standard browser. On startup, you will be asked whether the content to be displayed can be trusted. You need to confirm this for the help pages to be displayed.

The HTML pages use a java script to support the hyperlinks, but no internet connection is used.

Installation notes:

On first startup, PCTrans will ask for the necessary administrative data directory. Subdirectories and configuration files will be created in this directory, and the directory name will be written to the PCTrans.exe.configfile in the directory in which PCTrans is installed.

Administrator privileges are required for this, so the initial startup of PCTrans needs to be done by right-clicking the pctrans.exe file or shortcut and selecting the "Run as administrator" option.