Trimble Terramodel® 10.61H

including Geocomp Update

Release Notes

- **Introduction**
- **Installation**
- **New commands and changes**

Version 10.61H
October 2011

Trimble

Trimble Navigation Limited
Engineering and Construction
5475 Kellenburger Road
Dayton, Ohio 45424-1099
USA

www.trimble.com

Geocomp Systems

Geocomp Systems Pty Ltd
2-6 Albert Street
Blackburn Vic 3130
Australia

www.geocomp.com.au

Phone: +61 3 9877 8400
Toll free in Australia: 1800 800 754
Fax: +61 3 9877 8411

Copyright and Trademarks

Release Notice

This notice includes extracts from the March 2009 Terramodel Release Notes.

These release notes are for Trimble Terramodel® 10.61H which includes the Geocomp Update.

Introduction

This DVD contains a complete installation of *Trimble Terramodel 10.61H*, including *Trimble Terramodel 10.60*, the upgrade to *Trimble Terramodel 10.61* and the 10.61H TMLs from Geocomp Systems.

You can also update from *Trimble Terramodel 10.60G* or *Trimble Terramodel 10.61G*.

Any Terramodel releases prior to 10.50 are uninstalled first.

These release notes describe changes and new features added since *Terramodel 10.61G with Geocomp Update*.

Please also read *Terramodel 10 User Guide* and *Release Notes* for previous versions of Terramodel with Geocomp Update.

Once Terramodel is installed, use the Help menu to open Terramodel Help and Documents including the *TML List*, release notes, manuals, user guides, training guides, instant experts and sample data.

This installation is available free of charge for each Terramodel licence with Geocomp Systems Customer Care Membership. To join, see www.geocomp.com.au/contact/.

Installation

Trimble Terramodel 10.61H

Trimble Terramodel 10.61H requires Windows 95, 98, Me, NT, 2000, XP, Vista or 7. You will need administrator privileges during installation.

Before installation, you may want to back up any files you may have changed that might be overwritten, replaced or updated. The updates change the Windows Registry and many Terramodel files including TMODWIN.INI and P3SERVER.INI. Files in custom and data folders are not changed.

When you insert the yellow Geocomp Systems installation DVD for *Terramodel* 10.61H, a menu may appear. If not, execute AUTORUN.EXE in the root directory of the DVD.

Select the first option from the menu to install *Trimble Terramodel 10.61H with Geocomp Update*.

Install Step 1. *Trimble Terramodel 10.60*, Step 2. *Terramodel 10.61*, Step 3. *10.61H Geocomp Update* then Step 4. *Sentinel Protection Installer*.

Do not open Terramodel until you have completed all four steps.

If you have already installed Terramodel 10.61 or 10.61G, you only need Step 3 to install *10.61H Geocomp Update*. If you do reinstall Terramodel 10.60 or 10.61, select Repair when prompted.

If you are asked to restart your computer, select No then restart only after you have installed all components.

You can select English, Spanish, French or German languages.

Once you have accepted the licence agreement, select Normal Terramodel Configuration unless you want a default screen palette which matches the SCS900 display.

If you selected English, choose British English over the default US English if you prefer the terms **CHAINAGE** and **COLOUR** rather than **STATION** and **COLOR**. You do not need to read the readme files during installation because the most relevant content is repeated in this document.

Terramodel 10.61 is added to the Desktop and the Windows *Start menu* under *Trimble Office*. A link to the *TML List* is placed on the Desktop.

10.61H Geocomp Update extends *Terramodel 10.61 or Terramodel 10.61G* with new and modified programs developed by Geocomp Systems including aliases, menus and AutoDraft Configuration files. The default prototype file is updated unless you have configured Terramodel to use your own prototype. You can reselect your existing files and so on after installation.

If you are using Windows Vista or later, select Yes to be reminded to install WinHelp32 (see Windows Vista or 7 below).

Self -Registration

If you get a Self-Registration Error relating to OLEAUT32.DLL, STDOLE2.TLB or OLEDB32R.DLL files, click OK to continue. These files are not normally required.

Coordinate System

The Terramodel installation backs up any current.csd coordinate systems file and installs a new version of current.csd. CURRENT.CSD is used by Terramodel commands **GEOSYS** and **RDE** and other Trimble applications which communicate with Trimble instruments such *Coordinate System Manager*, *Data Transfer* and *SiteVision.*

Sentinel Protection Installer

All Terramodel modules, except Field Data, are secured with a Sentinel SuperPro key. The key, also known as a dongle, contains electronics which stores the encrypted licence number, modules and version and plugs into either a USB or parallel port. We also have multi-seat server licences for large networks.

Step 4 installs or upgrades *Sentinel Protection Installer 7.6.4.* Remove any USB Sentinel keys first then attach the Terramodel key afterwards.

By default, the Sentinel drivers for parallel port, USB and server keys are all installed and loaded in memory. Choose the Custom setup type if you want to control which drivers are installed.

If you have problems with the security key, try downloading and install the current driver from www.setupmykey.com .

To replace a parallel port key with a USB key, contact Geocomp support or read more see www.geocomp.com.au/support/dongle.html.

Check your installation

After completing the installation, attach your Terramodel security key. Start Terramodel then select the **ABOUT** command from the Help menu. This will confirm the version of Terramodel (10.61) and the modules.

If the only module listed is Field Data, either no modules have been found on the key, the key cannot be found, or the lock version needs to be updated.

If there is no Products button next to the OK button, the key cannot be found. Attach the key and restart Terramodel. If the Products button is still not shown, see Sentinel Protection Installer above.

Click on the Products button. If the Lock Version is not 2, contact Geocomp Systems.

Blue crosses indicate permanent modules. Blue clocks indicate timed modules. For timed modules, the days of trial remaining are shown.

Run **GCHELP** command from the Help menu to confirm that Trimble Terramodel 10.61H has been installed.

See also the **DOCUMENTS** command which lists user guides, manuals, sample data and so on installed with Terramodel 10.61H to help you master Terramodel.

Microsoft® Windows Vista™ or 7

From Help menu, select Contents. If you see a question asking why you cannot see Help, follow the prompts to download and install WinHelp32.exe.

Terramodel installed on Windows Vista or 7, needs to "Run as Administrator" to avoid potential problems with speed and configuration management. This should happen automatically provided you do not run Terramodel until you have completed the four installation steps in sequence.

For Windows 7, open a Terramodel project then run **DWGOUT** command. You should see two Browse… buttons. If not, go to Windows 7 Control Panel, Appearance and Personalization, Display and adjust the Display text size till you can see the Browse buttons.

Also in Windows 7, Control Panel, set the User Account Control Settings to Never Notify.

Microsoft® Windows 32-bit and 64-bit

Terramodel is a 32-bit Windows application.

If you install Terramodel on 32-bit Windows, the application is installed by default under C:\Program files\Trimble\Terramodel\ and C:\Program files\Trimble\Shared\ and some files common to Trimble applications are installed in C:\Program files\Common files\Trimble\.

If you install Terramodel on 64-bit Windows, the application is installed by default under C:\Program files (x86)\Trimble\Terramodel\ and C:\Program files (x86)\Trimble\Shared\ and some files common to Trimble applications are installed in C:\Program files (x86)\Common files\Trimble\.

If you copy your old Terramodel initialization file from C:\Program files\ Trimble\Terramodel\Locale\English\tmodwin.ini on a 32-bit computer to C:\Program files (x86)\Trimble\Terramodel\Locale\English\tmodwin.ini on a 64-bit computer, or vice versa, run the command **GC64BIT** from the Terramodel command line to amend the Terramodel Search Path (TSP) and the locations of the macro, menu and callout style files in TMODWIN.INI.

Hydrographic Data Management System

If you prepare hydrographic charts, install the *Terramodel Hydrographic Data Management System (TM HDMS)* from the installation menu. Otherwise, do not install *HDMS*.

TML List

The TML List is a list of available Terramodel commands.

When you are on the web, you can open the latest version of the TML list on our web site from the white TML List icon on your Desktop.

You can change the icon in the Properties of the shortcut to C:\Program files (x86)\ Trimble\Terramodel\Geocomp\Tml List.ico or C:\Program files\Trimble\Terramodel\ Geocomp\Tml List.ico.

To read the locally installed TML List, select TML List from the Terramodel Help.

Use Crtl-F in your web browser to Find a keyword in the TML List.

Custom folder

If you create or edit your own custom prototypes, blocks, AutoDraft configurations, callout styles, TMLs, buttons or workspaces, place them in C:\TMCustom\, or create your own folder and edit TMODWIN.INI, P3SERVER.INI and your prototype to suit.

Other applications on the DVD

The menu also includes installations for:

- *Trimble Terramodel Visualizer 2.05*
- *Trimble Paydirt Sitework 5.22*
- *Trimble Data Transfer Utility 1.52*
- *SafeNet Sentinel Advanced Medic 1.3.1*
- *SafeNet Sentinel Medic+*
- *Adobe Reader X (10.1.0)*
- *GTCOCalcomp Tablet Works 9.51*

See www.geocomp.com.au/links for third party applications such as ZtreeWin file manager and Adobe PDF generators.

Some changes to Terramodel since 10.61G including new commands.

ALIAS.INI

Our alias file has been revised with new and changed aliases to suit new and changed commands. There are now over 2000 aliases including variants in spelling and commands from the French and Spanish menus. If you are not sure how to spell a command, guess!

AirValve command

Label a pipe with air valve blocks.

ASAPImag command

Add to each plotbox the same images that are in the MasterSheet.

BFitCurv command

Compute a curve of best fit through selected points and report, now with reported coordinates in the expected order and with the expected number of decimal places.

Cat command

Create a catenary pline, now with configurable catenary pline segment length.

ColorCon command

Recolour contours by interval, now retains the number of contours.

DelBlks command

Delete missing external blocks.

DTMSet command

Create sets at DTM links, now with new layer selection.

EvalDTM command

Report problem DTM points, now including points excluded from the DTM.

F7, F8, F9 and F11 commands

The new **F11** command and function key toggles point names (descriptions).

Now **F7** toggles point number labels, **F8** toggles circle symbols, **F9** toggles elevations and **F11** toggles names.

GC03DUAL command

Report chainage and offset from two alignments.

GC12DIN command

Import 12DA files, now with option to map of Line Styles and more allowable variations.

GC12DOUT command

Export 12DA files, now with option to map Line Styles.

GC29UTM command

Report the ellipsoidal distance, plane distance, line scale factor, grid bearings and arc-to-chord between two locations. Label the grid bearings and distances.

GC64Bit command

Correct the TSP, macro, menu and callout folders in a TMODWIN.INI file copied from another computer.

GC96 command

Select points between two DTMs, now above or below a single DTM.

GCCOPY command

Copy selected objects without changing properties such as colour, now with retention of any hidden segments and lot details.

GCCoord command

New coordinate systems include:

BROCKMAN94

Brockman, WA

BRSO2000

Borneo Rectified Skew Orthomorphic on Geocentric Datum of Malaysia 2000

BRSO-BT68

Borneo Rectified Skew Orthomorphic on Borneo Triangulation 1968

GCCC

Gold Coast City Council Grid, QLD

LL-NZGD2000

Latitude/Longitude on New Zealand Geodetic Datum 2000

LL-BT68

Latitude/Longitude on Borneo Triangulation 1968

MRSO2000

Malaysian Rectified Skew Orthomorphic on Geocentric Datum of Malaysia 2000

MRSO-MRT

Malaysian Rectified Skew Orthomorphic on Malayan Revised Triangulation

PNGMG94-55

Papua New Guinea Map Grid 1994 Zone 55

TELSTRA CPR2

Telstra Cable Plant Record 2 for DXF files supplied by Telstra Dial-Before-You-Dig.

GCKMLOUT command

Export to Google Earth, NearMap or HyperTiles to help you locate your data and collect aerial or satellite photos for use in Terramodel Image Manager.

GCGenGrd command

Create a grid of points, now always in the same view as the origin point.

GCHelp command

Show the Geocomp Update Revision number, the location of the TMODWIN.INI and prototype file in use and the current project units.

GCLabLot command

Label areas of closed sets with m² or Ha in a consistent exportable way. Corresponding changes have been made to prototype files, SUBDIV.FNT, SUBDIV.SHP and SUBDIV.SHX.

GCMFI command

Import multiple ASCII PTS or CSV files.

GCNMEAIN command

Import NMEA data tagged as $GPGGA.

GCProfil command

Create multiple profiles from DTMs in a layerlist.

GCPtsIn command

Import point files, now including some LandXML.

ImagePth command

Update image path locations after a project file or images have been moved.

LayerNxt command

Change the current layer to the next layer in alphabetical order.

Leica import and export commands

GRADESMT, **ROAD_RUN**, **DTM2LDBX**, **DTM2XML** and **PLAN2DBX** commands which export LandXML or RoadRunner databases for Leica 1200, Viva and DigSmart3D have been improved and a new **POWERGDE** command to export data for PowerGrade 3D has been added. The Terramodel Leica Field (.TLF) import script and format files have been improved to better handle station names and backsights.

LIDARGrd command

Import gridded LIDAR files containing X, Y, Z and intensity.

ListPipe command

List as-constructed pipe data.

ListRef command

List reference files for a project.

Menus

The menu files have been revised to add, rename or move some commands and sub-menus. The User menu and some unused commands have been removed. **MENUCFG** command allows you to choose a different menu.

GEOCOMP.M, our default menu file, displays File, Edit, View, Draw, Draft, DTM, Reports, Modify, Settings, Cogo, Roads, Window and Help menus.

GEOCOMP+.M adds Hydro, Pipe, Tunnels, Channel and HDMS menus.

VIEWER.M limits the available commands to those for bosses and clients to view, measure and report on Terramodel projects without changing the data.

MossIn command

Import GENIO files including those with triangle models. **MossTri** is no longer required.

NameSets command

Rename unnamed sets to match the name of the first point.

PipeInfo command

Report pipe segment dimensions and cover.

PipeWeld command

Locate as-built pipe welds when you have the design alignment and a survey of the welds in a pipe before the pipe was laid.

RecoverScroll command

Recover a lost coordinate scroll dialog. **RecoverScroll** is an alias to **CordScrl**.

Reveal command

Make hidden set segments visible. **Reveal** is an alias to **UnHide**.

SclBlks command

For each selected block, change the scale factor and turn on or off map colour, autoscale and clip by insertion point in dynaviews.

SCS900in command

Import TXT reports from Trimble SCS900 Site Controller Software instead of DXF files.

ShowDirn command

Show the direction of a pline or set with the option to reverse the direction.

SnapLyr command

Toggle the snap (selectability) status of a layer.

StarNet command

Import .TER file from STAR*NET .TER least-squares adjustment software.

Terramodel Visualizer application

Now includes all the demo files including the pictures and movies.

VisLyr command

Toggle the visibility of a layer.

XSectRpt command

Report the total sloping distance along cross sections.