Ultimate Positioning News

Welcome to the September edition of UPdate, Ultimate Positioning’s Survey Division newsletter.

If you haven’t done so already, please read the information on Trimble Express below and register for this FREE event with CPD Points. We are in the final stages of planning, with the agenda including guest speakers from Trimble, latest in Survey Controller, Monitoring, field exercises and customer feedback sessions. Join the Trimble Express and Speed up your Surveying Productivity.

The specials from our June newsletter expire at the end of September.
- Buy a Trimble S6, add an R8 GNSS receiver and save $5000+gst
- With any Robotic or GPS purchase, buy a Nikon NPR352 for $7000+gst

Contact any of our team for details or a copy of our June edition of UPdate.

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Trimble Express

As announced in the latest Edition of Position Magazine the Trimble Express road-show will be coming to a town or city near you.

Trimble Express will be heading through NSW and Canberra on the following dates:

- Coffs Harbour: 31/10
- Newcastle: 3/11
- Orange: 5/11
- Sydney: 7/11
- Canberra: 10/11

Register for Free at www.trimble.com/trimble_express2008
Bringing 150 year old Land Parcels into the 21st Century

Michael Bissett, from Bissett & Wright Surveyors and his team recently undertook their first GPS based cadastral Survey. The scope of the job was to define the boundaries of several different portions of land, some having last been surveyed in the mid 1850's. The job covered an area of approximately 700 acres with heavy foliage in places and undulating bush terrain.

As all cadastral surveyors would know, running the line of the original survey is the best way to find old marks. With the Trimble software, it was made simpler to physically walk the line of the boundaries which enabled Mick to find marks, that if done conventional means, would have possibly not been feasible. Mick says of the Trimble R8 GNSS kit he used… "Once we got on site we were amazed how fast the system initialised, within 2 minutes we were up and running. Where the Trimble GPS came into its own was the ability for us to key in the boundaries of the origin portions… we only had to carry a pole with the rover unit on it and the controller connected to it by Bluetooth. A compact, lightweight solution that ensures no more aching joints at jobs end!"

Mick was also pleased by the estimated 70% reduction in field and office time using the GPS gave them for this job, but according to Mick the proof of the pudding is in the eating, “the best summation of Trimble’s GPS system is when our elder statesman, a rising 66 years young and a complete novice with GPS was given a five minute brief on the software before he disappeared into the bush with rover and controller in hand and reappeared several hours later with a grin from ear to ear, shaking his head and saying ‘...I wish I had this 30 years ago’”.

For Bissett & Wright Surveyors any fears or concerns they had with using GPS for Cadastral surveys have been allayed after using the Trimble R8 GNSS kit for this mammoth job, with a final statement to the Ultimate Positioning’s Sydney office, “We cannot recommend both Trimble & the team at Ultimate Positioning highly enough for going that extra yard to assist us in every way. And will happily discuss our thoughts with any potential clients.”
**GPS Only versus GNSS Satellite Visibility**

As we can see from the graphs below, satellite coverage is good through most of the day at the moment.

However those with GLONASS enabled receivers are enjoying typically an additional 3-4 satellites for much of the day. A greater number of available satellites means better coverage under trees and most importantly – better productivity.

The plots below are for Monday 1\textsuperscript{st} September in Sydney

**GPS + Glonass (9 – 16 Sats)**

![Graph showing GPS + Glonass satellite visibility]

**GPS Only (6 – 11 Sats)**

![Graph showing GPS only satellite visibility]

**ACMA WARNINGS**

Recently, the Australian Communications and Media Authority (ACMA) started a crackdown on illegal radio transmission.

Please contact the Ultimate Positioning office or Radspec if you are unsure of your current radio status, (or your equipment supplier for if you have any Non-Trimble radios) and we can help you fill out the required forms (attached) to apply for a radio license.

Please be advised that any non-licensed radio transmission will attract large fines from the ACMA (up to $165,000 for an organisation and up to $13,500 and two years imprisonment for individuals).
Second Hand Equipment for Sale

Geodimeter 500 Servo Chargers & batteries $1500 +GST
Geodimeter 600 Autolock Chargers & batteries $2500 +GST
Trimble 5600 Servo DR 200+ (Instrument only) $6000 +GST
Wild TC1600 $1200 +GST
Wild TC 2000 $1200 +GST
Nikon TS3 $1200 +GST
Pentax III 10 $900 +GST
Sokkia Set IIIB $1200 +GST
Sokkia Set IIC $1200 +GST
2x Sokkia Power Set 3000 $2000 +GST
2x Topcon GPT 6005 Chargers & batteries $3500 +GST each
Topcon GTS 803A Robotic (All accessories) $15,000 +GST
Topcon FC 2000 (Data Collector) $1500 +GST
Topcon GPT 9003A (Robotic & Reflector-less) $POA
2x Topcon GTS-701 (Instrument only) $1500 +GST each
Leica 1010 $1200 +GST
Leica TCR 705 Chargers & batteries $5500 +GST

Current Software/Firmware Versions

Trimble Office Software Version
Trimble Geomatics Office 1.63
Trimble Business Centre 1.12
Data Transfer Utility 1.43
Configuration Toolbox 6.0.3
Microsoft Active Sync 4.5

Trimble GPS Receivers
R8 GNSS 3.64
SPS 880 3.64
5800 / R8 2.32
SPS 780 2.32
R7 / 5700 2.32
4700 1.30

Trimble Conventional Instruments
Trimble VX/S6 R10.0.58
Trimble 5600 696-03.08

Trimble Controllers
Survey Controller TCU / TSC2 12.22
Survey Controller ACU / TSCe 11.40
SCS900 2.4

Trimble Radios
TrimMark 3 1.30
HPB450 2.42

The latest versions of firmware are all available from the Trimble website: Trimble Support A - Z