

GeoCue Group Terrasolid

New Features In TerraMatch

What's New in Terrasolid v015?
Webinar
18 February 2015

Darrick Wagg
GeoCue Group
9668 Madison Blvd., Suite 202
Madison, AL 35758
+1 (256) 461-8289
support@geocue.com
support.geocue.com

GeoCue Group Terrasolid

Find Rubbersheet Correction

- Fixes data to match control points using a triangulated correction model for xyz, xy or z
- Observations come from tie lines
- Possible last adjustment step for aerial airborne data:
 1. Match data internally
 2. Match to control using rubbersheet

Find Rubbersheet Fit

Source: Active tie lines

Trajectory dir: E:\jvaskyla_airborne\trajectory Browse...

Solve: Z

Expand model: Closest correction

Averaging

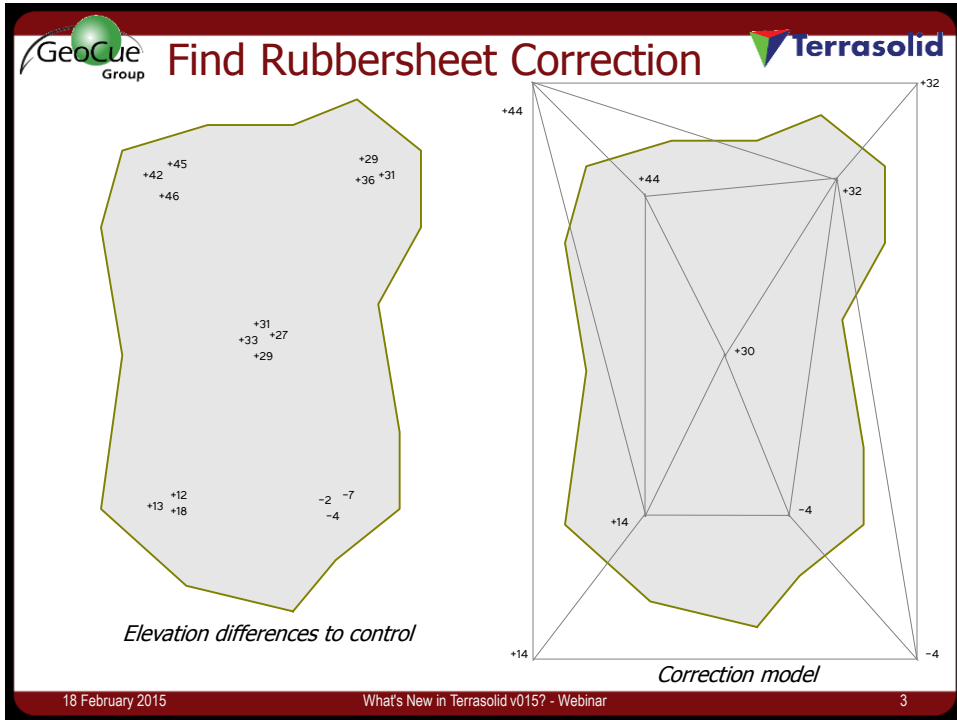
Max count: 15 closeby points

Max distance: 50.0 m

Merge final correction points

OK Cancel


18 February 2015 What's New in Terrasolid v015? - Webinar 2




GeoCue Group **'Reduce to single line' in Tie Lines** Terrasolid

- Menu command modifies tie lines so that each tie line has observations from a single line only
- Makes tie lines more suitable for per scanner solutions as trajectory drift is not affecting mismatches

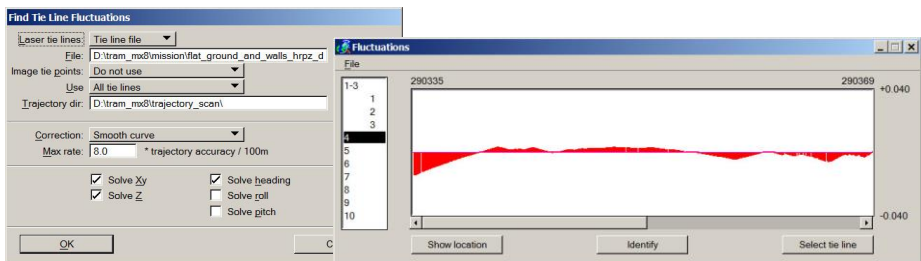
18 February 2015 What's New in Terrasolid v015? - Webinar 4




Find Tie Line Fluctuations Improvement




- User can specify the rate at which correction may change
- Better control on the correction curve
- Bad observations will have less effect on curve
- Change rate is relative to trajectory accuracy estimates
 - Z accuracy estimate is 0.100 m
 - Rate limit is $2.0 * \text{estimate} / 100\text{m}$
 - Correction can change max 0.2 m during 100m traveling



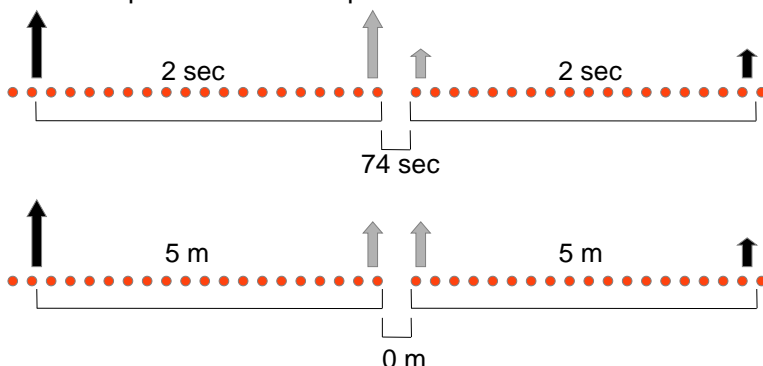
18 February 2015
What's New in Terrasolid v015? - Webinar
5




Apply Correction Improvement




- Correction values between tie lines are now interpolated relative to travel distance and not relative to time as before
- Better correction at stops
 - Time relative correction could cause a shift between the data before the stop and after the stop




18 February 2015
What's New in Terrasolid v015? - Webinar
6




Find Intensity Correction

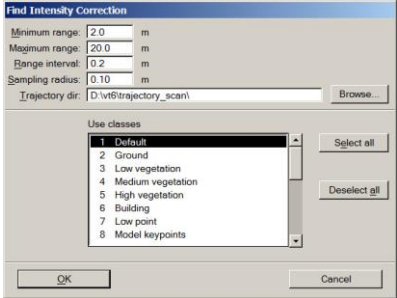





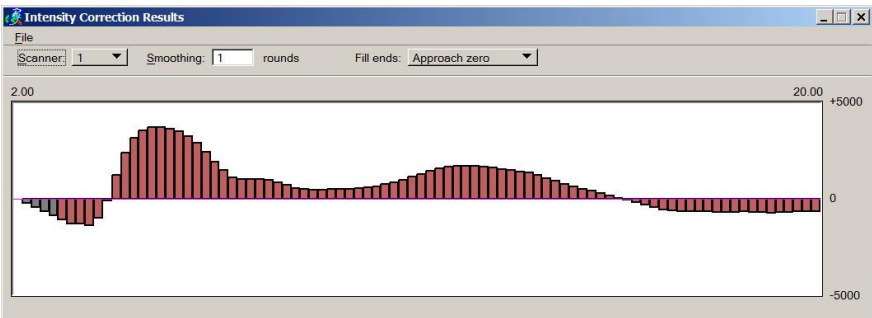
- Solves a correction for intensity based on range and improves intensity values
- Requires overlap points from multiple lines or scanners
- Compares points at the same location and computes average intensity from different ranges
- Should be done when:
 - Line passes have been matched to each other
 - Cut overlap has not been done
- Important if intensity will be used for generating products:
 - Paint line vectors
 - Intensity ortho

18 February 2015
What's New in Terrasolid v015? - Webinar
7









18 February 2015
What's New in Terrasolid v015? - Webinar
8