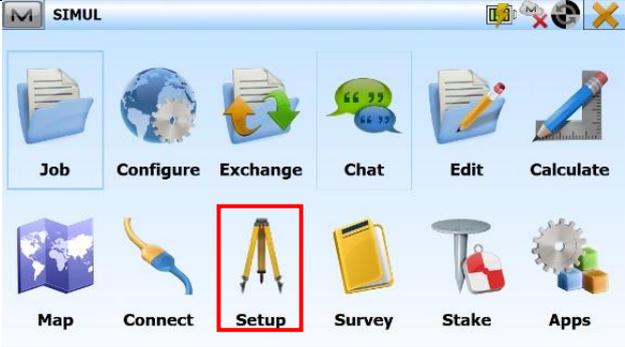
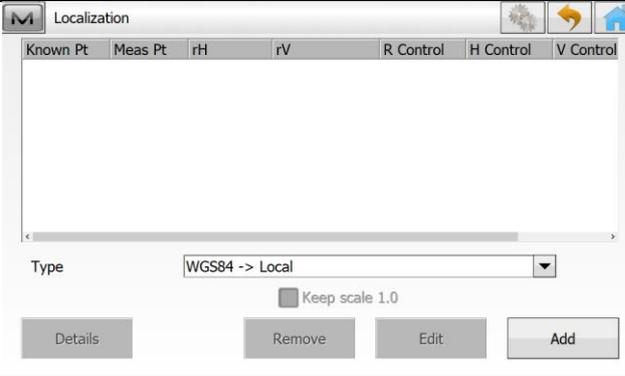
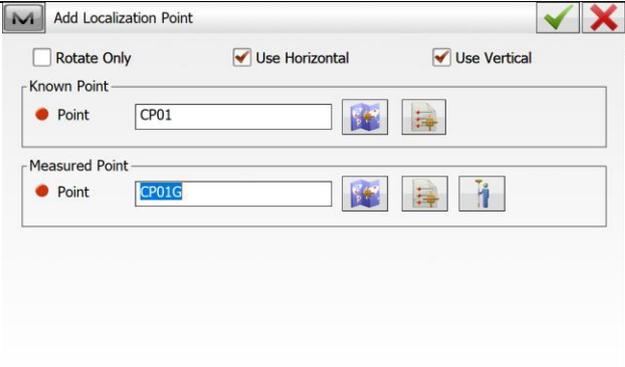


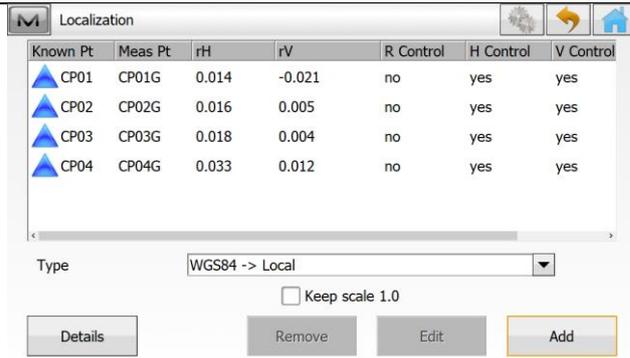
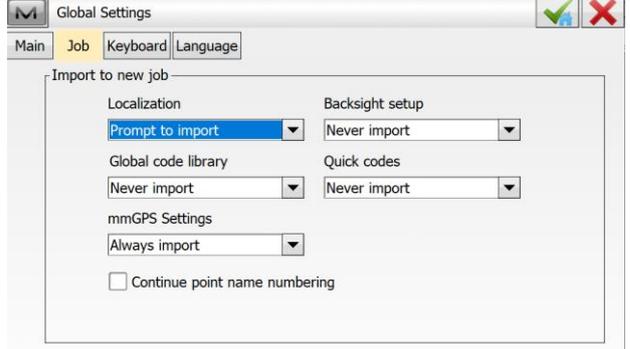
## Topcon Magnet: GNSS Localization in MAGNET Field

<p><b>1</b></p>		<p><b>Localization</b> is the process of creating a local coordinate system for recording GNSS information. Before starting you will need a minimum of 4 Control Points on the target coordinate system stored in the job, the job projection &amp; geoid model should be set to <b>None</b> and the Datum should be <b>WGS84</b>. When this is done select <b>Setup</b></p>
<p><b>2</b></p>		<p>Press <b>Localization</b></p>
<p><b>3</b></p>		<p>Under <b>Type</b> select the type of localization you would like to do. Usually this will be <b>WGS84 -&gt; Local</b>. Click <b>Add</b></p>
<p><b>4</b></p>		<p>In <b>Known Point</b> select the target control point. In <b>Measured Point</b> enter a point name for your GPS point and press the record button. You will then be taken to the normal <b>Topo</b> screen to record your point</p>

### Sunbelt Rentals Survey

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<p>5</p>	 <table border="1"> <thead> <tr> <th>Known Pt</th> <th>Meas Pt</th> <th>rH</th> <th>rV</th> <th>R Control</th> <th>H Control</th> <th>V Control</th> </tr> </thead> <tbody> <tr> <td>CP01</td> <td>CP01G</td> <td>0.014</td> <td>-0.021</td> <td>no</td> <td>yes</td> <td>yes</td> </tr> <tr> <td>CP02</td> <td>CP02G</td> <td>0.016</td> <td>0.005</td> <td>no</td> <td>yes</td> <td>yes</td> </tr> <tr> <td>CP03</td> <td>CP03G</td> <td>0.018</td> <td>0.004</td> <td>no</td> <td>yes</td> <td>yes</td> </tr> <tr> <td>CP04</td> <td>CP04G</td> <td>0.033</td> <td>0.012</td> <td>no</td> <td>yes</td> <td>yes</td> </tr> </tbody> </table> <p>Type: WGS84 -&gt; Local  <input type="checkbox"/> Keep scale 1.0          Details Remove Edit Add</p>	Known Pt	Meas Pt	rH	rV	R Control	H Control	V Control	CP01	CP01G	0.014	-0.021	no	yes	yes	CP02	CP02G	0.016	0.005	no	yes	yes	CP03	CP03G	0.018	0.004	no	yes	yes	CP04	CP04G	0.033	0.012	no	yes	yes	<p>Repeat the process for all your control points. After you have measured the 4<sup>th</sup> you will start to see residual errors. If you press <b>Details</b> you can get more information about the transformation.</p>
Known Pt	Meas Pt	rH	rV	R Control	H Control	V Control																															
CP01	CP01G	0.014	-0.021	no	yes	yes																															
CP02	CP02G	0.016	0.005	no	yes	yes																															
CP03	CP03G	0.018	0.004	no	yes	yes																															
CP04	CP04G	0.033	0.012	no	yes	yes																															
<p>6</p>	 <p>Position System Scatter Plots SVs          29 29 Local 10:00:17  <b>Fixed</b>          Local (m)          North 2155.178          East 792.308          Elev -1.393          PDOP 1.778 H 0.121 m V 0.190 m          Base Dist(m) 0.967</p>	<p>Back in the main menu, if you now press <b>Setup</b> then <b>Status</b>, your current position should now be showing on your local grid. Another good check is to stake out one of your control points</p>																																			
<p>7</p>	 <p>Global Settings          Main Job Keyboard Language          Import to new job          Localization: Prompt to import          Backsight setup: Never import          Global code library: Never import          Quick codes: Never import          mmGPS Settings: Always import  <input type="checkbox"/> Continue point name numbering</p>	<p>If you will be using the localization in multiple jobs, go to <b>Configure</b> then <b>Global</b> and select the <b>Job</b> tab. Change the <b>Localization</b> option to <b>Prompt to Import</b>. Next time you create a job you will be asked If you want to use the localization.</p>																																			

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