
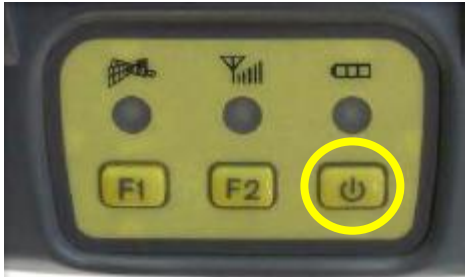

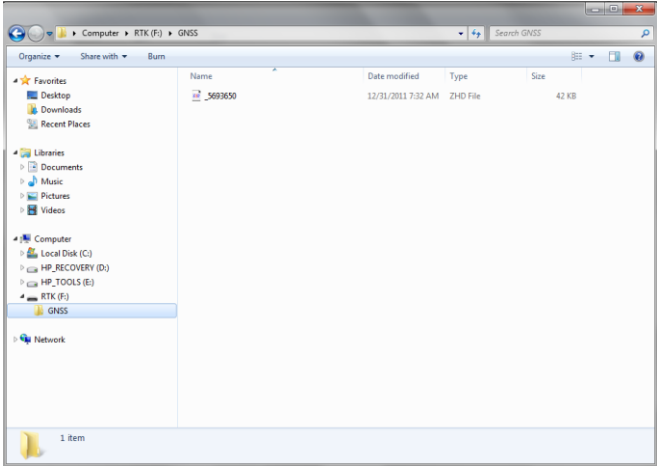
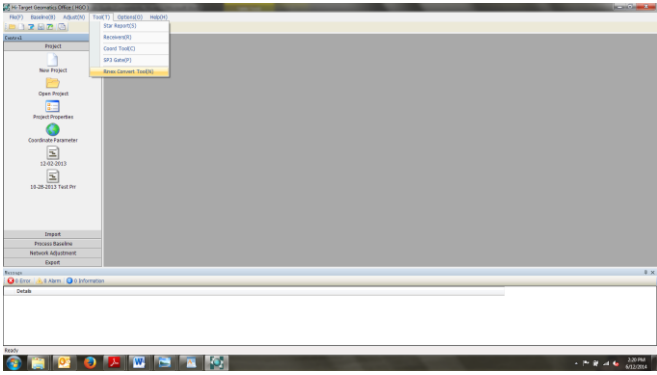
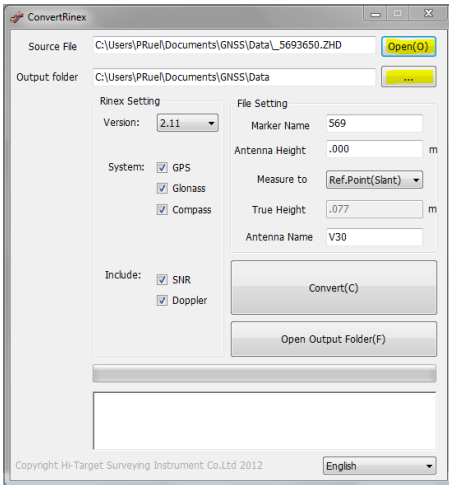


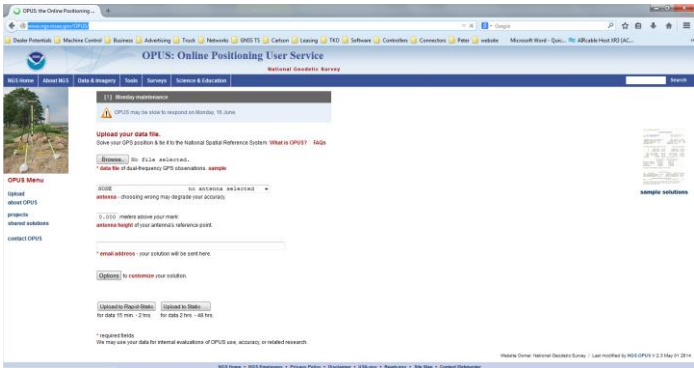
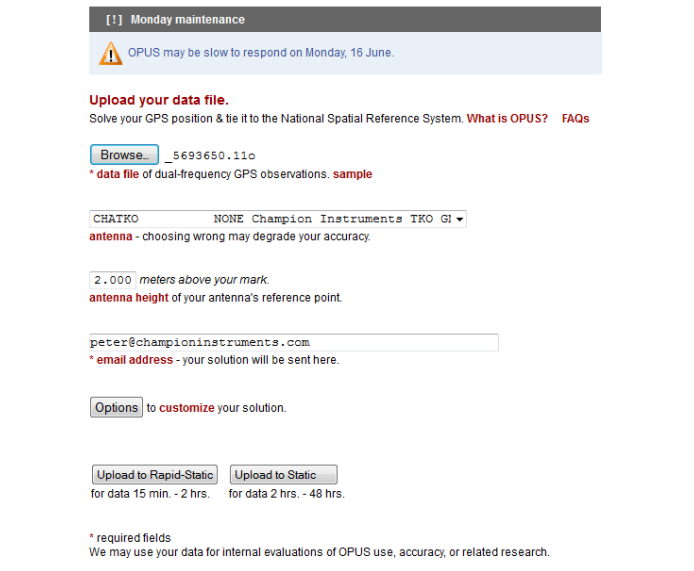
TKO Receiver

Static Guide

Step	Action	Display
1	<p>a. To log static on the TKO receiver, simply set up your TKO receiver on the pole with a tripod/bipod, or on a tripod with an adapter</p> <p>b. Turn on the TKO with the power button</p> <p>c. Once the receiver says "Tracked" Double press the Power button.</p> <p>d. The receiver will beep according to how often it is collecting data. If it is set at 1 epoch you will hear a beep every second, 5 epoch every 5 seconds etc..</p> <p>NOTE: If you are setting up as a base or rover, set up as normal then double tap the power button to begin collecting static data</p>	 <p>A photograph of a TKO receiver mounted on a yellow pole. The receiver is a grey, dome-shaped device with a yellow top section. It is positioned outdoors on a grassy area with trees in the background.</p>
2	<p>a. Once you have collected the amount of data you need (OPUS recommends 2 hours) double tap the power again to stop logging data.</p> <p>b. You can now turn off your receiver and return to the office for data transfer.</p>	 <p>A close-up photograph of the TKO receiver's control panel. The panel is yellow and features three buttons labeled F1, F2, and a power button. The power button is circled in yellow.</p>
3	<p>a. Connect the TKO to your PC through the com 1 power port using the USB connection on the "Y" cable provided with the receiver.</p> <p>b. Power on the receiver.</p>	 <p>A photograph showing a TKO receiver connected to a laptop. The receiver is connected to the laptop via a USB cable. The laptop screen displays a software interface with various data fields and graphs.</p>

TKO Receiver Static Guide

Step	Action	Display
4	<p>a. Your PC will automatically load any necessary drivers and you will then be able to navigate to the “GNSS” folder which contains the .ZHD raw file using windows explorer.</p> <p>b. Copy and paste the .ZHD file to a location on your hard drive.</p>	
5	<p>a. Navigate to the HGO Software and open it through the Start menu on your PC under all Programs.</p> <p>b. In the Tools Drop Down select “Rinex Convert Tool”.</p> <p>Note if you do not have the HGO software it can be downloaded at: http://championinstruments.com/champblast/TKO Users CD/Receiver Management Software/GPS receiver management software V1.4.1.exe</p>	
6	<p>a. Use the “Open” button to navigate to the .ZHD file you transferred off the TKO in step 4</p> <p>b. Use the “...” button to determine where you want the Rinex file exported to.</p> <p>c. Enter your point number under “Marker Name” and the Antenna Height.</p> <p>d. Press the “Convert” button</p>	

Step	Action	Display
7	<p>a. If you are using OPUS to post process the data go to: http://www.ngs.noaa.gov/OPUS/ in your internet browser</p>	
8	<p>a. Use the Browse button to navigate to and select the Rinex file you created in step 6. Choose the “.o” file</p> <p>b. Next from the drop down list choose the “CHATKO” Antenna</p> <p>c. Enter your antenna height in meters</p> <p>d. Enter your email address</p> <p>e. Then choose either “Upload Rapid Static” or “Upload Static” depending on how long you collected data for.</p> <p>NOTE: You may need to wait 24 hours before submitting OPUS data; once the data is accepted you will normally get a response in less than an hour.</p>	
<p>Please contact either your local dealer or Champion Instruments at 770-243-3254 with any questions.</p> <p>www.championinstruments.com</p>		