

CGPS LOGSHEET – SITE VISIT

(use additional sheets to describe problems, as necessary)

SITE NAME: DATE: TIME (UT):.....
 LAT.: LON.: HEIGHT:.....
 OPERATORS:
 (name +
 institution)

1. Describe site upon arrival:

	Y	N	Comment
Solar panels in place?			
Solar panel cables in place?			
Solar panel cables connected to GPS box?			
GPS antenna in place?			
Antenna cable in place?			
Antenna cable connected to GPS box?			
GPS box in place?			
GPS box locked?			
Sign of the GPS box having been opened?			

2. Inside the GPS box:

	Y	N	Comment
GPS receiver in place?			
GPS receiver powered?			
	LED status on GPS front panel		
			ON
			OFF
External frequency (orange, should be off)			
Ethernet (green, should be off)			
Satellites (amber, should flash slowly)			
Logging (yellow, should flash slowly)			
Primary power (green, should be off)			
Secondary power (amber, should on)			
Battery in place?			
Power regulator in place?			
Voltage out of battery = ____V			
Voltage out of panels = ____V			

3. Additional information:

Antenna type: Trimble Zephyr with ground plane
 Antenna serial number:
 Receiver type: Trimble NetRS
 Receiver serial number:

4. Verify receiver configuration:

1. Make sure that your computer is configured with:
 - a. Static IP address 192.168.1.3 (anything beyond 1.2 is ok)
 - b. Netmask 255.255.255.0
 - c. Gateway 192.168.1.1
2. Connect the multiport adapter to the primary power/Ethernet port at the back of the receiver
3. Connect a cross-over Ethernet cable between the receiver and computer Ethernet ports
4. Open a web browser on the computer
5. Connect the web browser to the following URL address: <http://192.168.1.2> (IP number of GPS receiver)
6. Navigate through the web-based menu on the browser to access the NetRS features and fill out the following tables:

Receiver status	
System name	
Firmware version	
SVs tracked	
File being logged	
Voltage	
Temperature	
Run time	
UTC date and time	

Data logging	
Memory used	
Memory available	

Receiver Configuration	
Elevation mask	
Clock steering	
PDOP mask	
Sessions	

The receivers should have been configured to record daily sessions (24-hour, from 00:00 to 23:59 UT) with a 15 second rate.

7. Download data:

- **Using the web browser:**
 1. Navigate to Data Logging, then Data Files
 2. Click on the icon next to a file name or click on the file name.
 3. An “open or save” box appears: enter directory and file name, then OK – download begins. (download takes 2 seconds for 500 Kb)
- **Using ftp:**
 1. Open an ftp client on your computer
 2. Connect to 192.168.1.2
 3. Log in as “anonymous” (or “ftp”)
 4. [note that the ftp options can be configured on the receiver using the web browser menu “FTP Setup”]
 5. Navigate the directory path to the file directory
 6. **Type “bin” (to turn binary download on – DO NOT FORGET THIS, OTHERWISE DATA IS UNUSABLE!!!)**
 7. Type “prompt” (to turn interactive mode off)
 8. Type “mget *” (to download all files present in the directory)

File names have the form: StationIDYYYYMMDDHHmmS.ext
 StationID = system name, as defined by the GPS network administrator

YYYY = Julian calendar year
 MM = Julian calendar month
 DD = Julian calendar day
 HH = UTC hour when logging started
 mm = UTC minute when logging started
 S = any letter (a-z) that you define as a session identifier

DO NOT ATTEMPT TO TRANSFER FILES ENDING IN .T00.A or .BNX.A AS THESE ARE ACTIVE LOGGING SESSIONS.

Number of files downloaded:	
Date of earliest file:	
Date of latest file:	
Typical file size in Kb:	
Smallest file size in Kb:	
Largest file size in Kb:	
Files deleted from the receiver?	

Report any anomaly below (files shorter than should be, missing days, etc...):

TROUBLESHOOTING DIRECT ETHERNET CONNECTION:

1. Make sure that you are using a CROSS-OVER cable
2. Make sure that you are typing the correct URL in your browser
3. Make sure that the computer network access is configured with:
 - Static IP address 192.168.1.3 (anything beyond 1.2 is ok)
 - Netmask 255.255.255.0
 - Gateway 192.168.1.1
4. Open a dos command window and ping the GPS receiver (you should have 100% packet loss, if not it means that the receiver is actually responding...)
5. Still not working? Continue to 6...

