## **CGPS LOGSHEET – SITE VISIT**

(use additional sheets to describe problems, as necessary)

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

## **1. Describe site upon arrival:**

	Y	Ν	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	Ν	Com	iment		
GPS rec	ceiver in place?						
GPS rec	eiver powered?						
	LE	D sta	tus o	1 GPS front panel	ON	OFF	
	External frequence	cy (or	ange,	should be off)			
	Ethernet (green, should be off)			f)			
	Satellites (amber, should flash slowly)			h slowly)			
Logging (yellow, should flash slowly)			h slowly)				
Primary power (gr			shoul	d be off)			
	Secondary power	condary power (amber, should on)					
Batte	ery in place?						
Power reg	gulator in place?						
Voltage ou	it of battery =	V					
Voltage ou	it 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
- Connect the web browser to the following URL address: <u>http://192.168.1.2</u> (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	Data logging			
System name	Memory used			
Firmware version	Memory available			
SVs tracked				
File being logged	<b>Receiver Configuration</b>			
Voltage	Elevation mask			
Temperature	Clock steering			
Run time	PDOP mask			
UTC date and time	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. <u>Type "bin" (to turn binary download on DO NOT FORGET THIS, OTHERWISE DATA</u> <u>IS UNUSABLE!!!)</u>
- 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...

- 6. Connect a RS-232 serial cable between the computer and the front panel serial port of the receiver (service port)
- 7. Open a terminal emulator on your computer (e.g. hyperterminal)
- 8. Configure the terminal for 115,200 bauds, 8-N-1 with no hardware or flow control
- 9. Save the configuration values and connect
- 10. Turn GPS receiver off (remove power)
- 11. Turn GPS receiver back on
- 12. Watch boot message on the terminal window
- 13. When message "Do you want to change Ethernet Configuration", type yes
- 14. Follow instructions to change new values:
  - Mode: Static IP
  - IP number 192.168.1.2
  - Gateway 192.168.1.1
  - Netmask 255.255.255.0

To hard reset the receiver:

Boot in hyperterminal.

Hit space twice to stop the autoboot (this option is early in the boot process).

At the prompt:

% boot\_status 254 0

% reset

This procedure will not affect the data.

Another way to do this is to perform a hard reset by pressing and holding the moon button on the receiver for one full minute.

#### IF NEEDED, FILL OUT TABLE BELOW:

File name	Date modified	Time modified	Size (Kb)	Down- loaded	Deleted from receiver