TurboRogue SNR-8000 terminal commands. Command explanations are in *italics* and actual line commands are in **bold**.

TurboRogue receiver log-on:

[ruud@makalu ruud]$ **cu -l /dev/ttyS1 -s19200**
Connected.

TurboRogue GPS Receiver Host Software:

Version 3.2.32.11
95/02/28 Field Configuration 8

TurboRogue Login: **tom**
Password: **warumono** *(will not echo on screen)*
Welcome to TurboRogue

TurboRogue>

Changing the screen/scrolling mode:

TurboRogue> **cl –f** *(full screen, normal operations, recommended)*

TurboRogue> **cl –h** (*half screen, shows TR screen on terminal, not recommended)*

TurboRogue>

```
                                        F1 >START NOW
      TurboRogue GPS Receiver
        Version: 3.2.32.11              F2 >SET CLOCK
                                        F3 >SET POSITION

       Satellite ScoreBoard             F4 >START LATER
  LOCKED: 8          IN SEARCH: 0
                                        F5 >OFFLOAD DATA
   Current Tracking Mode:   NORMAL
                                        F9 >STOP NOW
                                        F10>WARM RESET
```

Setting/checking elevation mask (should be set to 4 deg.):

TurboRogue> **el**
Current Elevation Mask: 4.000000

TurboRogue> **el 4.0**

Checking receiver tracking (result before started tracking):

TurboRogue> **cs -c**

Channel Summary:
chn 1 : enabled,idle
chn 2 : enabled,idle
chn 3 : enabled,idle
chn 4 : enabled,idle
chn 5 : enabled,idle
chn 6 : enabled,idle
chn 7 : enabled,idle
chn 8 : enabled,idle
Sample Rate: 30 sec

Starting tracking:

TurboRogue> **configure**

Checking receiver tracking (result without antenna attached):

TurboRogue> **cs -c**

Channel Summary:
chn 1 : enabled,OSS
chn 2 : enabled,OSS
chn 3 : enabled,OSS
chn 4 : enabled,OSS
chn 5 : enabled,OSS
chn 6 : enabled,OSS
chn 7 : enabled,OSS
chn 8 : enabled,OSS
Sample Rate: 30 sec

Checking receiver tracking (result before satellites acquired):

TurboRogue> **cs -c**

Channel Summary:
chn 1 : enabled,searching
chn 2 : enabled,searching
chn 3 : enabled,searching
chn 4 : enabled,searching
chn 5 : enabled,searching
chn 6 : enabled,searching
chn 7 : enabled,searching

chn 8 : enabled,searching
Sample Rate: 30 sec

Checking receiver tracking (result with satellites acquired):
Note both CA SNR values and XCR (cross correlation) SNR values (i.e. both L1 and L2 locked).

TurboRogue> **cs -c**

Channel Summary:
chn 1 : enabled,locked,sat 1,SNRv(CA 120 XCR 0),rising(06,258)
chn 2 : enabled,locked,sat 23,SNRv(CA 182 XCR 2),rising(12,261)
chn 3 : enabled,locked,sat 20,SNRv(CA 75 XCR 0),rising(09,306)
chn 4 : enabled,locked,sat 25,SNRv(CA 809 XCR 58),rising(62,186)
chn 5 : enabled,locked,sat 11,SNRv(CA 386 XCR 11),rising(35,288)
chn 6 : enabled,locked,sat 14,SNRv(CA 594 XCR 36),setting(54,045)
chn 7 : enabled,locked,sat 30,SNRv(CA 203 XCR 5),rising(20,085)
chn 8 : enabled,locked,sat 22,SNRv(CA 375 XCR 11),setting(32,114)
Sample Rate: 30 sec

Checking serial port settings and baud rates:

TurboRogue> **port**

Port State   Attributes
PC   InActive   * Scrolling * Silent * NO STDIO * NO LOGIN
       * Timeout=10000000min
USER MenueS   * NO LOGIN
       * 19200 bps * Timeout=10000000min * User: auto
AUX   Active   * This is U * Scrolling * Silent * NO STDIO * NO LOGIN
       * 19200 bps * Timeout=10000000min * User: tom

Saving port settings (if you have changed baud rate or mode):

TurboRogue> **port -s**

Do you really want to execute *port -save* ? (y/n -- n default) **y**

Changing receiver sample rate (to 30, there's no response back from the receiver):

TurboRogue> **sa 30** (other valid options are 1, and 3-3600, NOT 2)

Checking receiver firmware version:

TurboRogue> **ver**

Version 3.2.32.11
95/02/28 Field Configuration 8

Print receiver's current position:

TurboRogue> **position**

1279 1 19 54 00
lat: 40.061190 lon: 254.794415 height: 1578.335 m
clock offset: 0.014 us clock error: 18.341 ns drift: 0.054177 ns/s
velocity north: 0.000081 east: 0.000056 up: -0.000029
chi squared: 0.063 covariance precision multiplier: 2.345

Setting baud rate on either USER port (port A) or AUX port (port B):
Always use port B for serial communications.

TurboRogue> **baud 19200 AUX**
Changing to 19200 baud on AUX port...

After the baudrate has been changed you have to log off the serial port using **~.** *And log back into the receiver using the cu command with the new baudrate. Then save the baudrate setting using the port –s command above.*

Resetting receiver (soft reset, no power cycle):

TurboRogue> **bang**

Do you really want to execute *bang* ? (y/n -- n default) **y**

Resetting receiver (go to default settings, loose almanac, etc. Data on flashcard is not affected):

TurboRogue> **go**

Do you really want to execute *go2defs* ? (y/n -- n default) **y**

Logging off from receiver:

TurboRogue> **lo**

Do you really want to execute *logout* ? (y/n -- n default) **y**

TurboRogue>

User Logout ... BYE
+++
ath

Closing serial port connection:
~.
Disconnected.