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

*TurboRogue receiver log-on:*

```bash
[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>

TurboRogue GPS Receiver
Version: 3.2.32.11

F1 >START NOW
F2 >SET CLOCK
F3 >SET POSITION

Satellite ScoreBoard
LOCKED: 8 IN SEARCH: 0
F4 >START LATER
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=1000000min
USER MenueS  * NO LOGIN
         * 19200 bps * Timeout=1000000min * User: auto
AUX Active  * This is U * Scrolling * Silent * NO STDIO * NO LOGIN
         * 19200 bps * Timeout=1000000min * 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
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.