

# Basic HOWTO guide for creating metrological data products from a real time streams.

741 Jim Normandeau February 28, 2012 [Software](#) 941

This document is intended to provide a basic framework on how to utilize the UNAVCO realtime data streams.

Please review the [PBO real time GPS data web page](#).

You will need to obtain access to the real time data streams first.

Download the NtripClient program (link below). This is a program written in python and is heavily based on the NtripPerlClient program written by BKG

Download the UNAVCO [TEQC program](#).

To create just met files the command is (PORT provided by PBO realtime group. Must register to obtain it):

```
“./NtripClient.py rtgpsout.unavco.org PORT STATION_NAME | teqc -binex +bcf +met STATION_NAME.met> /dev/null”
```

This start to create a met file called STATION\_NAME.met.

It will look like this:

```
2.11 METEOROLOGICAL DATA RINEX VERSION / TYPE
teqc 2012Jan19 20120224 18:32:42UTCPGM / RUN BY / DATE
OSX ker:10.8.0|Core 2 Duo|gcc 4.2 -m64|OSX ker:10.8.0+|=+ COMMENT
MARKER NAME
```

7 PR TD HR WS WD RI HI # / TYPES OF OBSERV

0.0 PR SENSOR MOD/TYPE/ACC

0.0 TD SENSOR MOD/TYPE/ACC

0.0 HR SENSOR MOD/TYPE/ACC

0.0 WS SENSOR MOD/TYPE/ACC

0.0 WD SENSOR MOD/TYPE/ACC

0.0 RI SENSOR MOD/TYPE/ACC

0.0 HI SENSOR MOD/TYPE/ACC

0.0000 0.0000 0.0000 0.0000 PR SENSOR POS XYZ/H

END OF HEADER

12 2 24 18 33 0 826.8 1.4 30.1 4.9 285.0 0.0 0.0

12 2 24 18 34 0 826.8 1.5 31.1 3.9 286.0 0.0 0.0

12 2 24 18 35 0 826.9 1.5 30.2 3.9 313.0 0.0 0.0

12 2 24 18 36 0 826.8 1.5 28.7 4.1 297.0 0.0 0.0

12 2 24 18 37 0 826.8 1.5 30.5 3.2 289.0 0.0 0.0

12 2 24 18 38 0 826.9 1.6 33.7 3.5 287.0 0.0 0.0

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Online URL:

<https://kb.unavco.org/article/basic-howto-guide-for-creating-metrological-data-products-from-a-real-time-streams-741.html>