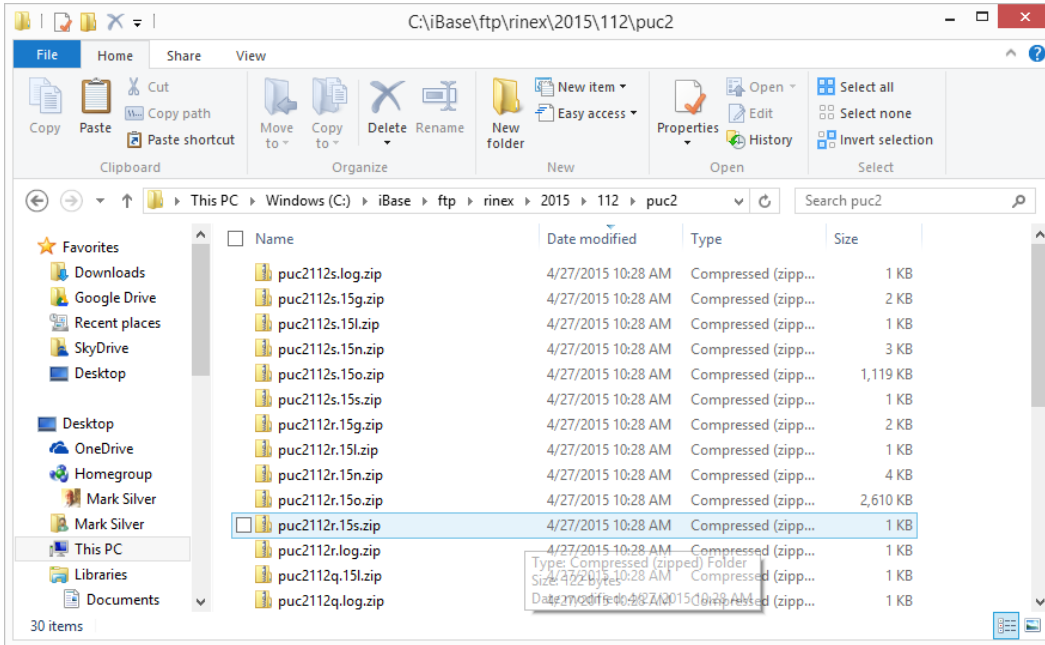


Processing Hourly Trimble .DAT Files in OPUS

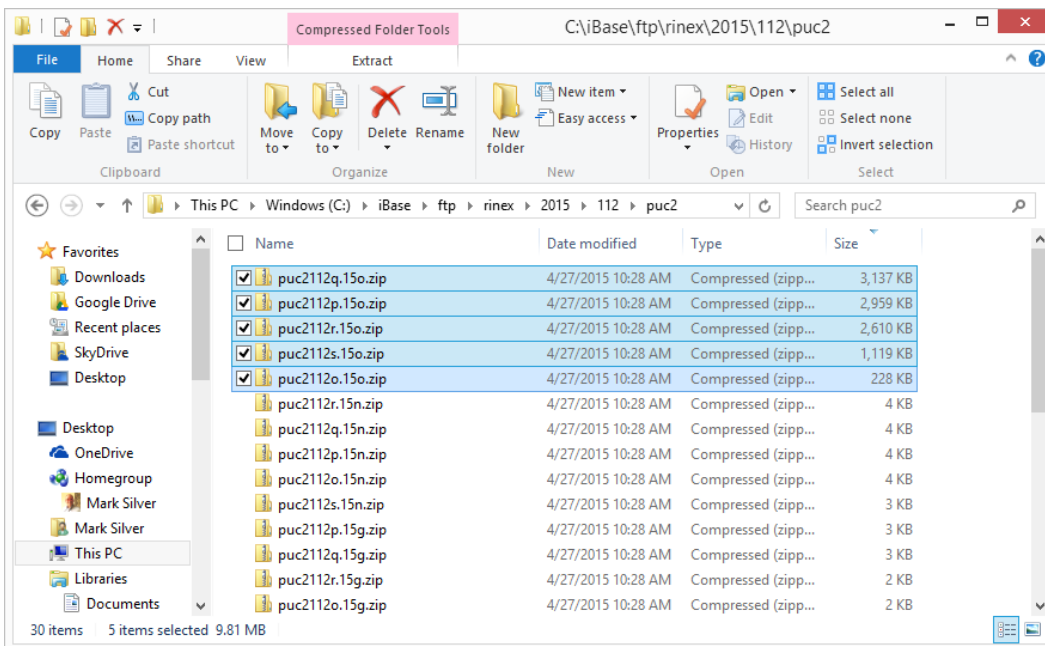
By: Mark Silver, ms@igage.com

Date: 27 April 2015

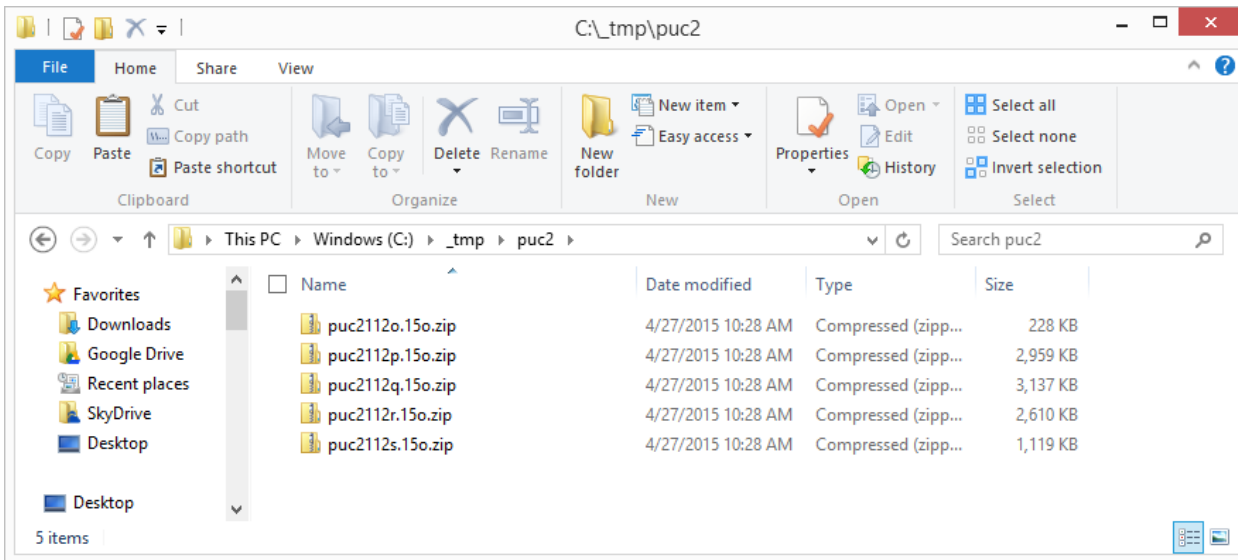
Typically you will have a folder with 24 hourly files:



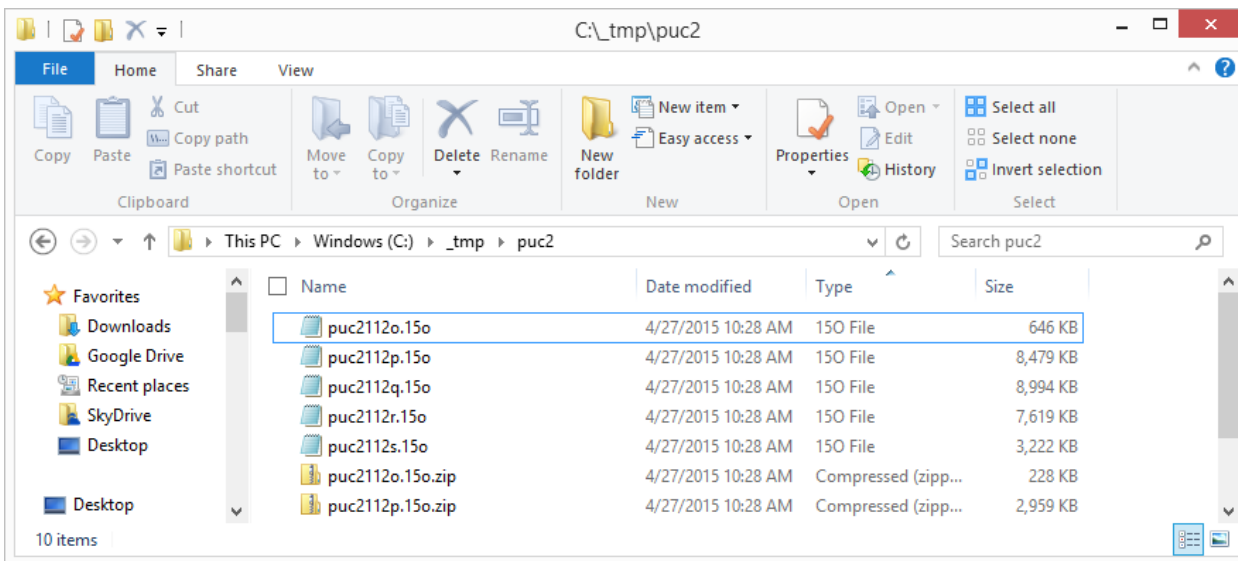
Sort by "Size" and select all of the observation '.o15' files:



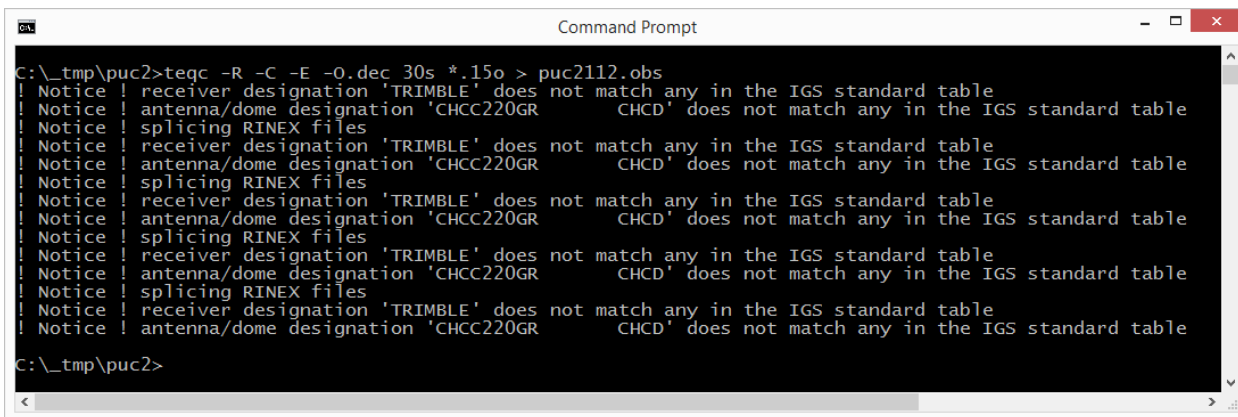
Copy these files into a working folder:



Highlight and decompress them:



In a DOS window (with TEQC.exe loaded in one of the folders listed in path) issue the command:



The command:

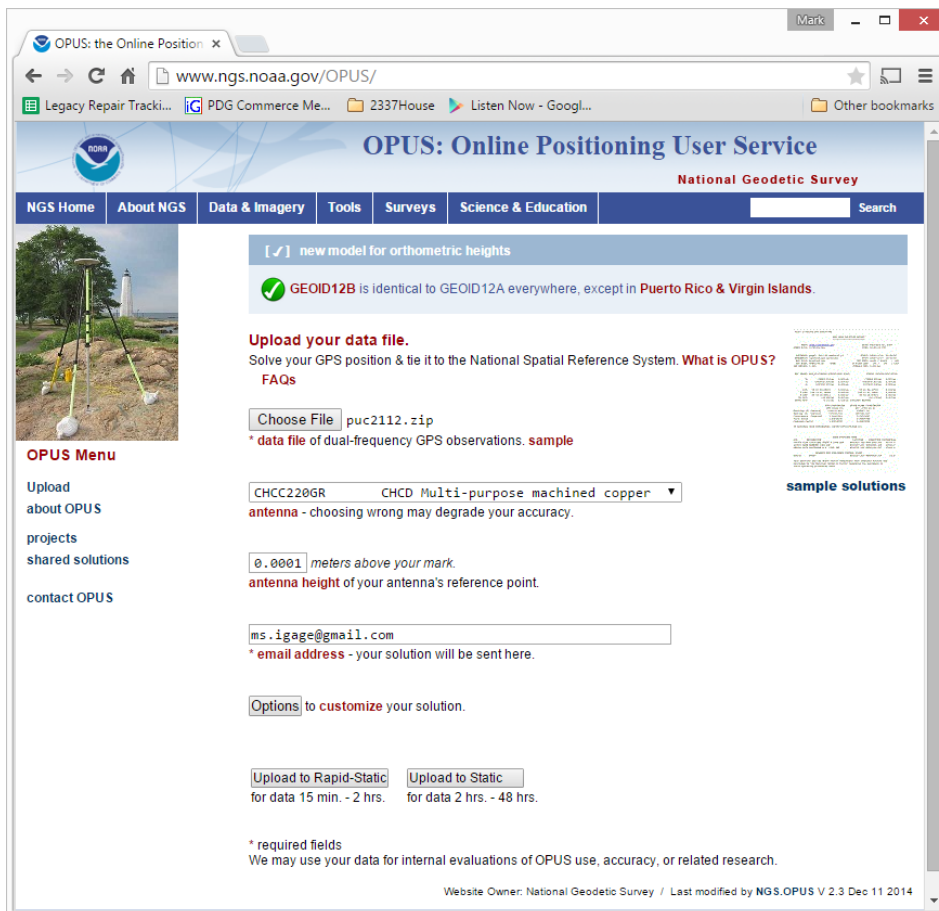
```
teqc -R -C -E -O.dec 30s *.15o > puc2112.obs
```

means:

- teqc the UNAVCO RINEX tool
- R delete Russian GLONASS SV's
- C delete Chinese BDU SV's
- E delete European Galileo SV's
- O.dec 30s decimate (only keep data) on 30 second interval boundaries
- *.15o process every file ending in .15o (which is all of the Observation files)
- > puc2112.obs the resulting output file

In this case, we convert 28.2 Megabytes of OBS files spread over 5-files into a single 625 KB obs file which can be further reduced by zipping to 157 Kbyte ZIP file.

Now you can submit to OPUS:



And (hopefully) receive an OPUS Solution back in good time:

NGS OPUS SOLUTION REPORT
=====

All computed coordinate accuracies are listed as peak-to-peak values.
For additional information: <http://www.ngs.noaa.gov/OPUS/about.jsp#accuracy>

```

USER: ms.igage@gmail.com          DATE: April 27, 2015
RINEX FILE: puc2112o.15o          TIME: 17:10:31 UTC

SOFTWARE: page5 1209.04 master93.pl 022814    START: 2015/04/22 14:56:00
EPHEMERIS: igr18413.eph [rapid]              STOP: 2015/04/22 18:22:00
NAV FILE: brdc1120.15n                      OBS USED: 8740 / 8969 : 97%
ANT NAME: CHCC220GR          CHCD            # FIXED AMB: 44 / 47 : 94%

```

ARP HEIGHT: 0.0001

OVERALL RMS: 0.010 (m)

REF FRAME: NAD_83 (2011) (EPOCH:2010.0000)

IGS08 (EPOCH:2015.3060)

X:	-1745061.768 (m)	0.001 (m)	-1745062.615 (m)	0.001 (m)
Y:	-4603214.452 (m)	0.009 (m)	-4603213.152 (m)	0.009 (m)
Z:	4044436.527 (m)	0.006 (m)	4044436.439 (m)	0.006 (m)
LAT:	39 35 38.10040	0.009 (m)	39 35 38.11712	0.009 (m)
E LON:	249 14 18.47476	0.003 (m)	249 14 18.42227	0.003 (m)
W LON:	110 45 41.52524	0.003 (m)	110 45 41.57773	0.003 (m)
EL HGT:	1714.251 (m)	0.004 (m)	1713.489 (m)	0.004 (m)
ORTHO HGT:	1731.153 (m)	0.017 (m)	[NAVD88 (Computed using GEOID12B)]	

UTM COORDINATES

STATE PLANE COORDINATES