

## ***Using Hourly NGS CORS Data with 'Thales RINEX Download' Manager***

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The Thales RINEX Download manager automates the process of retrieving post-processing data from the NGS FTP server. Data on the NGS site is made available on an hourly basis throughout the day, at the end of each day, the hourly data is summarized into a single daily file.

The RINEX Download manager is configured to download the daily summary files. This note describes how to add a new 'Provider Dialog' that will interface to the hourly data.

### **NGS CORS Data Background**

CORS stations acquire data continuously. At the top of each hour, the previous hour's data is packaged into a single observation file and transferred to a folder on the NGS FTP site.

The folders are stored on the NGS FTP host: <ftp://www.ngs.noaa.gov> in folders named with the following format: /cors/rinex/[yyyy]/[ddd]/[ssss]/ where [yyyy] is the four digit year code (2005), [ddd] is the three digit day of year and [ssss] is the four digit CORS station identifier (SLCU).

Within each folder, files accumulate each hour within 5 to 15 minutes after the end of the previous hour. Hourly files have the format: '[ssss][ddd][h].[yy]d.Z' where [ssss] is the four digit CORS station identifier, [ddd] is the three digit day of year, [h] is a character code for the hour ('a'..'x'), [yy] is the last two characters of the four digit year code.

At the end of each day (remember that all of the times are UTC times, so the end of the day in Utah (MST) is six hours before midnight) all of the hourly data is summarized to a single '0' file: '[ssss][ddd]0.[yy]d.Z'.

The RINEX Download manager, by default, will download and interpret only the daily data. You can quickly add a new 'Provider Profile' that will download daily data.

### **Adding a Provider Profile**

After starting the 'RINEX Download' tool, press the "..." button just to the right of the "Provider" selection.

The "Providers" dialog will be shown. Press the 'Add' button at the bottom of the dialog.

Fill in the new "Provider" information dialog as shown below:

**Provider**

Name :

FTP Host:

Data Type :

Time Span (min):

OBS Files :

NAV Files :

Comment :

More Info :

Public Access  
 Restricted Access

OK Cancel

The only changes to the standard 'NGS CORS' profile is the "Time Span" has been set to 60 and the "OBS Files" has had the '0' changed to '[h]'.

Finally press the OK button, the new profile is ready to download hourly data.

Remember to choose "NGS CORS" to download post processing data from the previous day and "NGS DAILY" to process data collected on the current day (up to 6:00 pm in the MST timezone.)

**New (August 4, 2006):**

For those who would like to copy and paste:

Name	NGS Hourly Download
FTP Host	www.ngs.noaa.gov
OBS File	/cors/rinex/[yyyy]/[ddd]/[ssss]/[ssss][ddd][h].[yy]d.Z
NAV File	/cors/rinex/[yyyy]/[ddd]/brdc[ddd]0.[yy]n.gz
Comment	NGS Hourly Data
More Info	http://www.ngs.noaa.gov/CORS/