

# Trimble GPSurvey V2.35 - How to process GPS data (outline) (historical)

81 Freddy Blume January 9, 2009 [Trimble Utilities](#) 2923

## GPSurvey V2.35 - How to process GPS data (outline)

UNAVCO 10/9/00

1. PROJECT: Create **New** or **Open** existing project
2. LOAD data **From DAT File**: - CONFIG "interactive" or "quick edit/batch prompt"
3. PROCESS **Baselines** – ADD files to process

In WAVE processor:

- EDIT:
  - **Station Position** (check base station "fixed control" coordinates)
  - **Occupations** (check antenna heights)
- PROCESS:
  - **Setup** (only to alter processing controls)
  - **Baselines** to start data processing
- FILE:
  - **Save** results if satisfactory and **Exit** WAVE

### 4. VIEW Network Map

### 5. UTILITIES:

**Project Report** to generate list of station coordinates and other output  
**Coord Transformations** to output continuous kinematic coordinates or transform coordinates

## Outputting Continuous Kinematic Data Points From GPSurvey

1. UTILITIES – select COORD TRANSFORMATIONS

2. Set ASCII formats –

From: Geographic

To: Geographic (or other)

3. Set Coordinate Systems –

From: Geographic WGS84

To: Geographic WGS84 (or other)

4. Enter SSK File Coordinates: FILE-FROM-SSK FILE

5. Select files to output from selection (identify SSK files from network map)

6. Output to ASCII file: FILE-TO-ASCII FILE

7. Name the file and access it through a text editor

## Using Precise Orbits in GPSurvey

Precise orbits are required to reduce orbit error when processing baselines over 100km and centimeter level errors are significant.

1. Connect to an online data center (such as <http://sopac.ucsd.edu/cgi-bin/dbDataByDate.cgi>) to access precise orbits.

2. (For SOPAC) select "products" and "data".

3. The orbit files are in the form: igsWWWWD.sp3. WWW is the GPS week, D is the day of week.

4. In DOS, convert the files to EF18 format: "sp3ef18 \*.sp \*.e18"

5. Put the e18 files in the directory /gpsurvey/precise.

6. In Wave, select Process-Setup-Advanced Controls-Ephemeris-Precise before processing the data.

Online URL:

<https://kb.unavco.org/article/trimble-gpsurvey-v2-35-how-to-process-gps-data-outline-historical-81.html>