

GPSurvey V2.35 Outline

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: igsWWWD.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.