

PENGUKURAN GROUND CONTROL POINT (GCP) DAN TITIK SEKUTU (TS)

ALAT PENGUKURAN YANG DIGUNAKAN :

1. GPS MAGELLAN PROMARK3 → PENGUKURAN KOORDINAT GCP
2. LASER (True Pulse 360B) → PENGUKURAN KOORDINAT TITIK SEKUTU

METODE PENGUKURAN TITIK GCP

-Dengan GPS Geodetik

-1 GPS



Laser (True Pulse 360⁰)



GPS Magellan Promark 3

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Collect raw
GPS data



Submit online
(RINEX format)



E-Mail return

The estimated coordinates / standard deviations for the
WMT0600_6hrs.070 RINEX file are as follow:

Latitude (NAD83-CSRS): 60 45 01.8330 (dms) / 0.009 (m)

Longitude (NAD83-CSRS): -135 13 19.5153 (dms) / 0.018 (m)

Ellipsoidal Height (NAD83-CSRS): 1427.240 (m) / 0.034 (m)

Orthometric Height CGVD28 (HTv2.0): 1419.222 m

Compute better-accuracy positions from GPS raw observation data



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Canadian Spatial Reference System

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Canadian Spatial Reference System

Canadian Spatial Reference System CSRS Online Database



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(last updated
May 12, 2008)

CSRS-PPP

CSRS-PPP is an on-line application for GPS data post-processing that allows GPS users to submit observation data over the Internet and recover, using precise GPS Orbit and Clock information, enhanced positioning precisions in the Canadian Spatial Reference System (CSRS) and the International Terrestrial Reference Frame (ITRF).

Select one RINEX File:

(Only Western Roman alphanumeric characters, including hyphen and underscore, should be used for file names)

(Compression: none or zip (.zip), gzip (.gz) or UNIX Compress (.Z))

(Format: RINEX or Compact RINEX (Hatanaka))

Select Mode of Processing: Static Kinematic

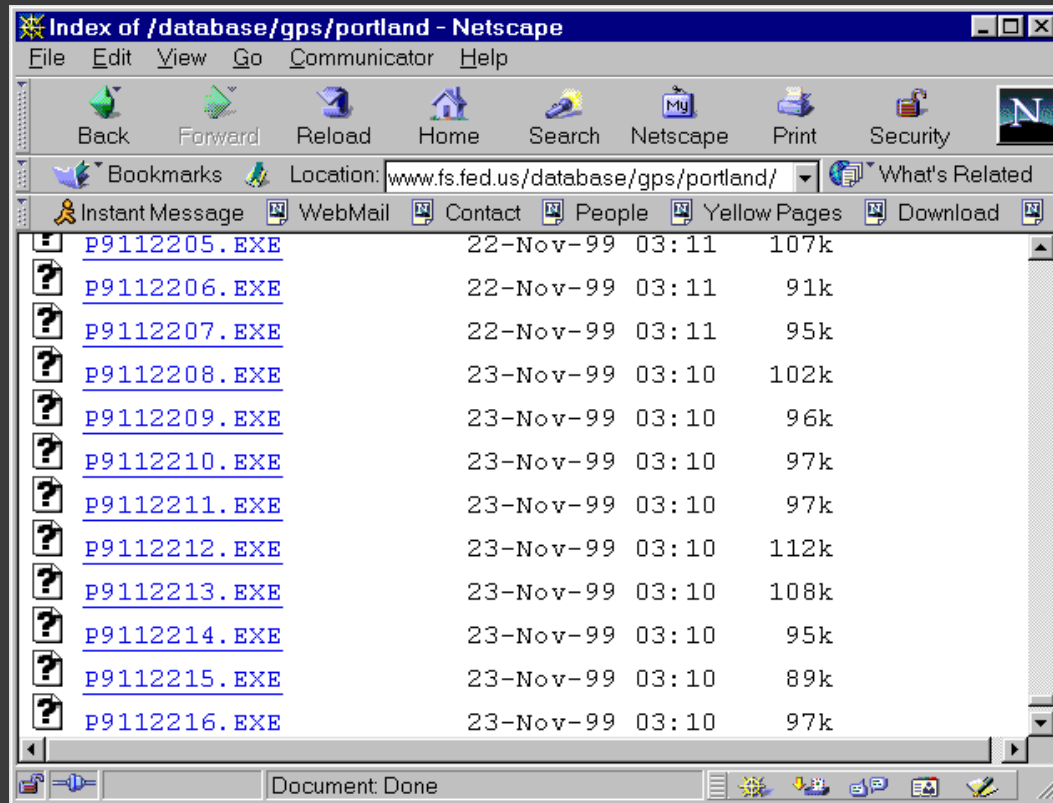
Select Reference System: NAD83-CSRS ITRF

Enter/Change E-Mail to which results will be sent:

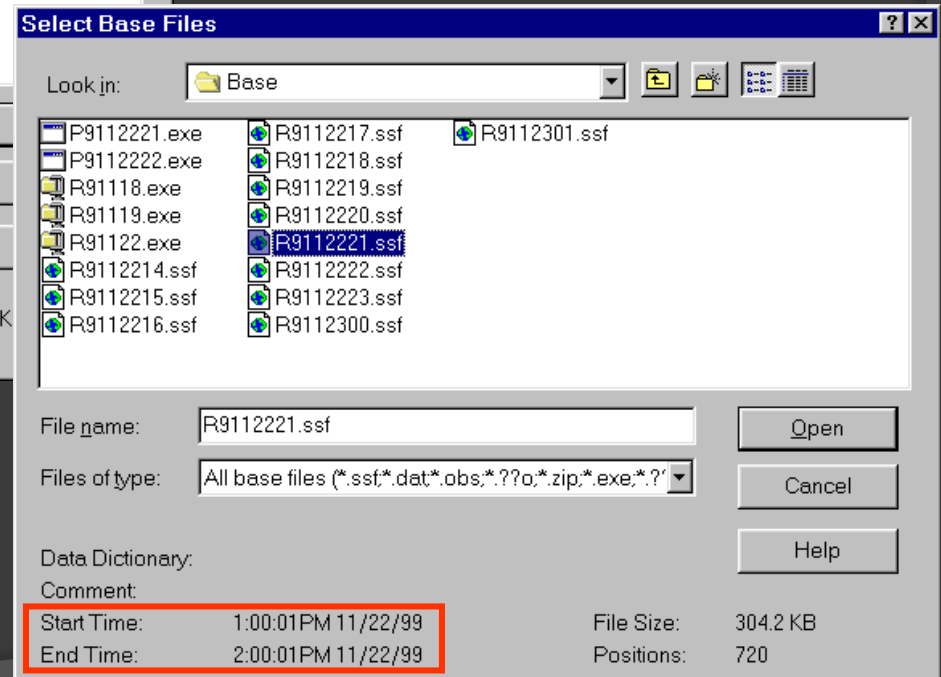
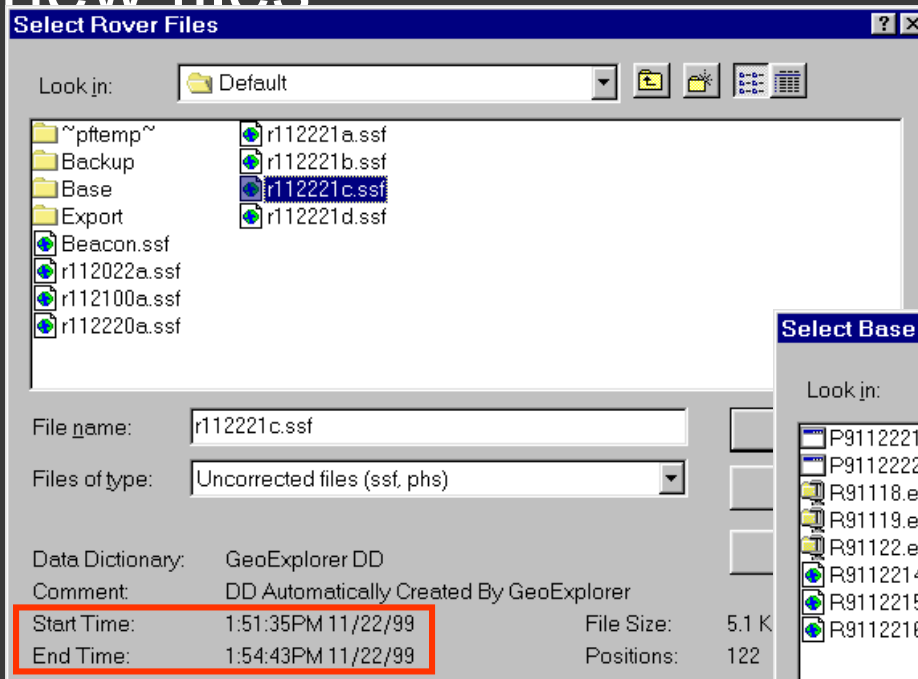
File Upload/Processing:

(Note: Processing will start once the upload is completed which may take a few minutes)

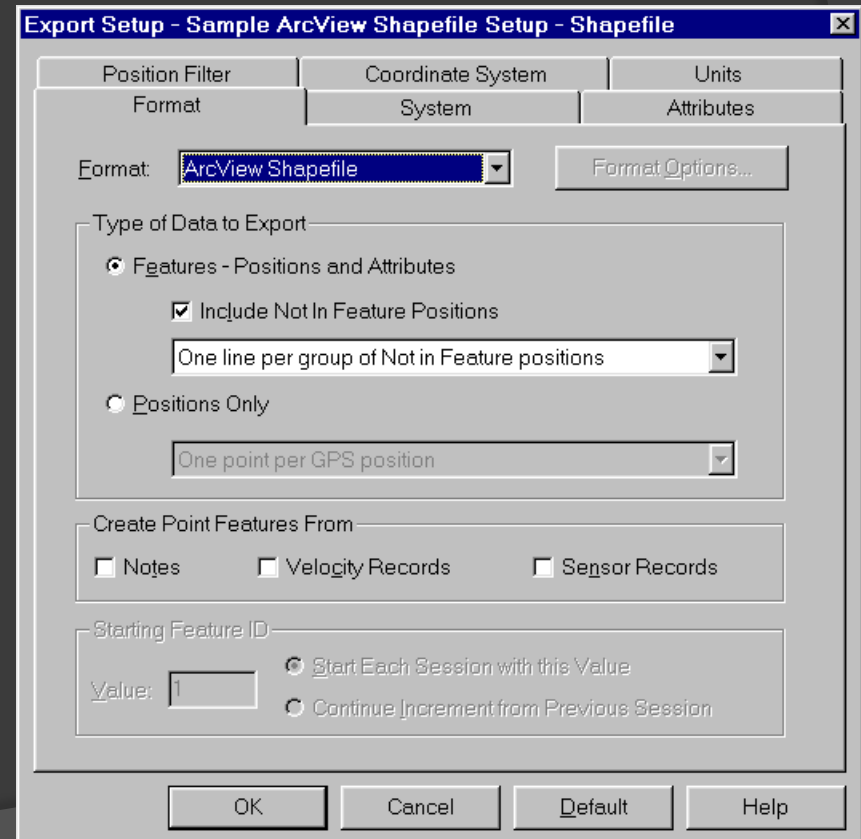
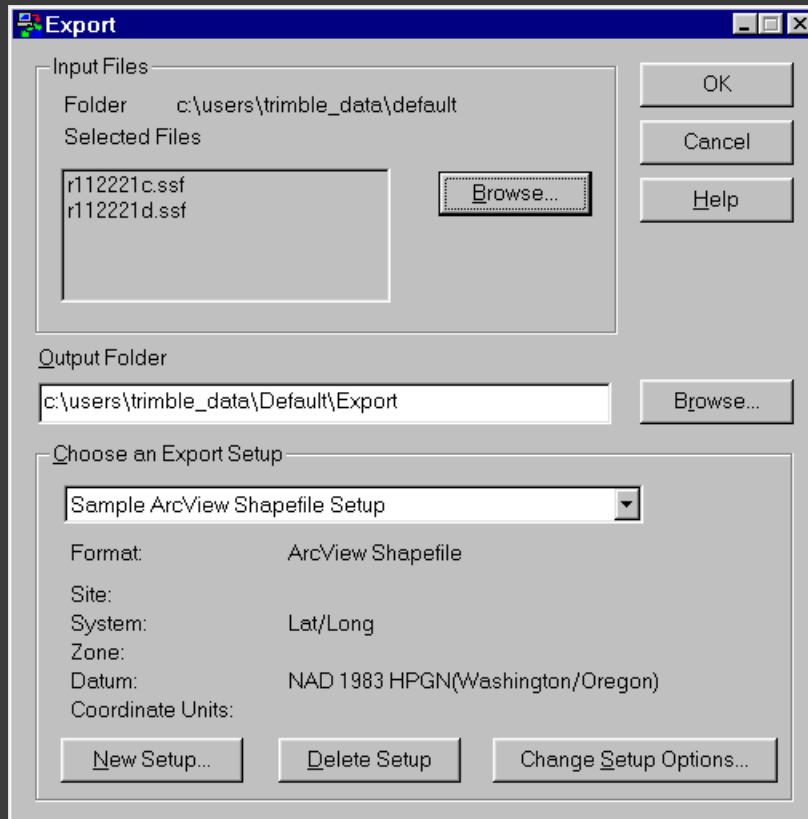
○ Differential correction: Download correction files from the web



○ Differential correction: Apply correction to create new files



Export from GPS software



METODE PENGUKURAN TITIK SEKUTU

-Dengan Laser

-Data yang diukur :

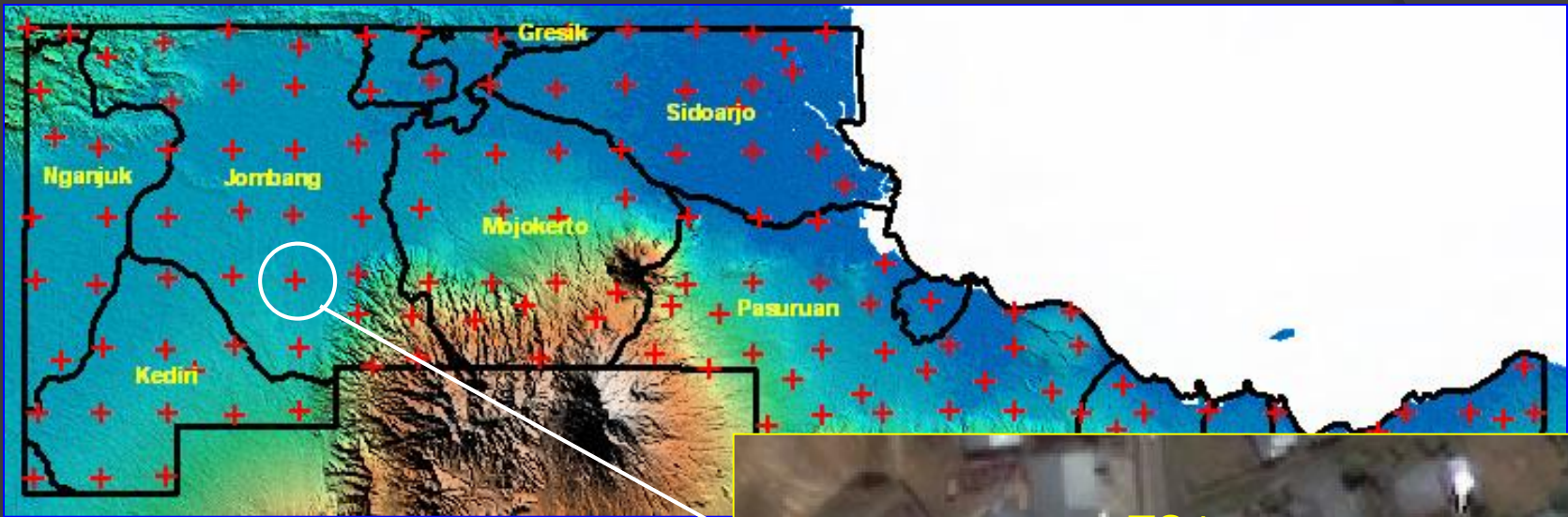
- Bearing (Titik Sekutu terhadap GCP)
- Jarak (Titik Sekutu terhadap GCP)

+

Koordinat GCP
terkoreksi



Koordinat Titik Sekutu
terkoreksi



PROSES ORTHOREKTIFIKASI

