Campaign Surveys - How to obtain high-confidence coordinates for a base station

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Campaign Surveys - How to obtain high-confidence coordinates for a base station

There are two main ways to obtain high-confidence coordinates for a GNSS base station: Process data from the site relative to other high-confidence static sites, or submit site data to an online point positioning service. If your new base site is within 50 km of a reference site and you have collected several hours of data, it is best to process the site data yourself using e.g. Trimble Geomatics Office (see How to process fast-static and post-processing kinematic surveys using TGO). Otherwise, to obtain a position to within several cm of a static point where a very accurate position is not needed, submit site data to one of the following online services.

- **CSRS-PPP** http://www.geod.nrcan.gc.ca/products-produits/ppp_e.php
  CSRS PPP (Canadian Spatial Reference System - Precise Point Positioning) is a flexible service which offers both static and kinematic data processing. Access to the database is free but requires a username and password. Data files can be uploaded directly to the site.

- **OPUS** http://www.ngs.noaa.gov/OPUS/
  A data file of at least two hours is recommended. Data files can be uploaded directly to the site.

- **AusPos** http://www.ga.gov.au/geodesy/sgc/wwwgps/
  Data files can be uploaded directly to the site.

- **APPS** http://apps.gdgps.net/
  A JPL service that replaces AutoGIPSY. Data files can be uploaded directly to the site.

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Online URL:
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