GPS Base Station Data

Written by Administrator
Tuesday, 10 August 2010 15:46 - Last Updated Thursday, 27 January 2011 08:06

GPS, DGPS and real-time DGPS

SOPAC is currently maintaining two GPS base stations in Suva, Fiji.

Real-time DGPS

The first base station is located at Tamavua and broadcasts a correction signal for GPS receivers with radio modem to allow real-time Differential GPS for the whole Suva peninsula. This station is set up on a ad-hoc basis.

 Signal:

- RTCM
- UHF 467.5 MHz
- 9600 bps, 8bits, no parity.

Base Station:

- Fiji Geodetic 1986 coordinates and Fiji Map Grid (FMG) coordinates
- Longitude: 178 26' 25.6109" E
- Latitude: 18 06' 04.8570" S
- Easting: 1967240.42
- Northing: 3878098.62
- Height: 148.966m above Mean Sea Level (MSL)
- Del Norte 1009+

24/7 Base Station

The second base station is located on the roof of the Mineral Resources Department in Mead Road, Nabua. The coordinates of this base station (Trimble DSM212L) is based on WGS84 Datum.

 SOPAC Base Station:

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- Longitude: 178 27' 11.90483 E
- Latitude: 18 06' 54.86103" S
- Height: 57.786m above Mean Sea Level (MSL)
- Ellipsoid Height: 111.937m

However this station logs corrections files in ssf and rinex format together with the almanac and log of the base station. You can freely download the files to do DGPS post processing for most of the Fiji Islands.

- ssf files
- rinex files
- dat files

We try to keep this station running 24/7 and we post scheduled downtime information on the mailing list GIS-Pacnet.

Notice: This service is experimental and has no warranty what so ever. If you run a ship on to the reef do not come to complain. The service can be interrupted and terminated at any time, for short or long periods. We are using spare survey equipment which is idle most of the year. However we are interested in your feedback to know if we should make it permanent. If you also plan a survey and need to ensure that the equipment is switched on, please contact us to avoid disappointments. We accept donations to maintain this service permanently.