

Schedule

Monday 30 July

Morning

Session 1 (theory) – Presentation of the Course. Introduction.

Session 2 (theory) – Concepts of positioning; positioning from space; space geodesy

Afternoon

Session 1 (practices) – Fundamental commands of Linux

Tuesday 31 July

Morning

Session 1 (theory) – GPS basic concepts; signal structure; Satellite orbits; GPS biases and errors;

Afternoon

Session 1 (practices) – Fundamental commands of Linux

Session 2 (practices) – Introduction to GIPSY. Directory and file structures.

Wednesday 1 August

Morning

Session 1 (theory) – Coordinate systems; African regional datums. AFREF implementation (1)

Session 2 (theory) – ITRS and ITRFxx. IGS data and products

Afternoon

Session 1 (practices) – Preparing metadata files with information for processing. Downloading required files.

Thursday 2 August

Morning

Session 1 (theory) – AFREF implementation (2)

Session 2 (theory) – Mapping using IGS network / ITRFxx solutions

Afternoon

Session 1 (practices) – Introduction to the use of xt-Gipsy

Friday 3 August

Morning

Session 1 (theory) – Establishment of CORS stations. Equipment requirements. General station installation requirements. Monitoring and Communications.

Session 2 (theory) – Geodetic applications of GNSS networks

Afternoon

Session 1 (theory) – Example of Processing with GIPSY

Saturday 4 August

Day off

Sunday 5 August

Day off

Monday 6 August

Morning

Session 1 (theory/practice) – GIPSY's processing strategies

Session 2 (theory/practice) – GIPSY's different processing input options

Afternoon

Session 1 (practices) – Practice on GIPSY processing

Tuesday 7 August

Morning

Session 1 (theory/practice) – Common problems encountered during GIPSY processing

Session 2 (theory/practice) – Interpreting the output from GIPSY

Afternoon

Session 1 (practices) – Practice on GIPSY processing

Wednesday 8 August

Attie returns to South Africa

Morning

Session 1 (theory/practice) – Mapping

Session 2 (theory/practice) – Converting GIPSY output to usable reference frame coordinates

Afternoon

Session 1 (practices) – Practice on GIPSY online processing

Thursday 9 August

Morning

Session 1 (practices) – Practice on GIPSY online processing

Afternoon

Session 1 (practices) – Short review of all the presented practical work; Q&A

Friday 10 August

Morning

Wrap-up; certification ceremony

Afternoon

Farewell ceremony