



Ground Station

Mid-Semester Meeting, Fall 2023



Semester Goals

- Learn and get accustomed to GS subsystems.
- Preparation of Comms Deployment Test with integrated satellite.
- Testing of the backup GS.
- GS tracking system test with deployed satellites.
- General maintenance.



Conducted work so far:

Our first semester \Rightarrow not much actual work conducted but...

...focus on learning and maintaining the GS:

- Complete restart of the entire GS.
- Working with the ISIS transceiver.
- Tracking of satellites in Gpredict.
- Antenna rotator controller and calibration.
- Basic troubleshooting.

- Much has been learnt regarding GS maintenance.
- Some updated documentation.
- Comms Deployment Test discussions:

Two tests can be conducted, one “preparation test” rehearsing the final test (without antenna and solar panel deployment)

⇒ possibility to test functionality of more subsystems, data over energy consumption during initialization and commissioning phase.



Upcoming Work

- Continued work on the Comms Deployment tests.
- Write documentation outlining aforementioned tests.
- Conduct basic telecommand test with backup station.
- Get hands-on experience with Elveti and Flatsat.
- Long term satellite tracking using Valentina.