

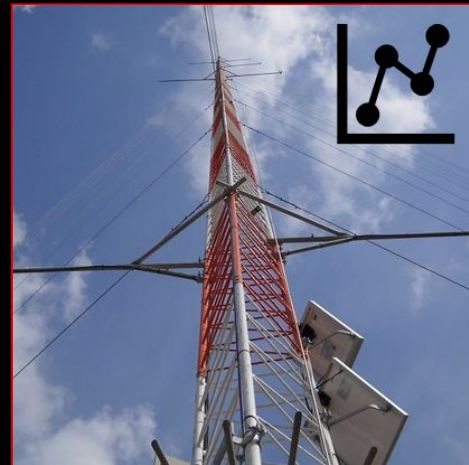


Atmospheric Measurements Tower

Part III - Data Analysis

This project aims at analysing the data collected by the atmospheric measurements tower.

Laboratory: EERL
Number of students: 1 (Master)
Section: SIE
Status: Available (Fall 2021)



Description of the project

The first space settlements will be scientific. As a result, it is critical to develop capabilities in establishing scientific outposts on celestial bodies, which may have similarities with some extreme environments that we have here on earth. One of the key experiments conducted within Asclepios consist in carrying out atmospheric measurements using a tower installed by astronauts. This tower will be the focus of three semester projects: Tower Requirements; Tower Manufacturing; and Data Analysis.

Conducted under the supervision of the EERL, this project aims at analysing the data collected by the atmospheric measurements tower. The value of this project is three-fold: first, to demonstrate that the tower can be effectively used for real scientific experiments; second, to provide recommendations about the data collection process and the tower requirements for future deployments; and third, to offer the student the opportunity to work with real atmospheric data and acquire some data analysis experience.

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