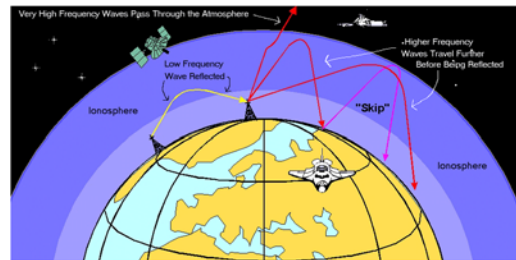


Bachelor Thesis

Atmospheric measurements on satellites by using Radio Frequency (RF remote sensing)

Satellites use antennas to detect naturally emitted microwave radiation from the Earth and its atmosphere. Different atmospheric components, like water vapor and liquid water in clouds, absorb and emit radiation at specific microwave frequencies.



©<https://radiojove.gsfc.nasa.gov/education/activities/iono.html>

Your Tasks

- Literature research on RF remote sensing for satellites
- Identification of application areas
- Identification of possible measurements and definition of key parameters (e.g. frequencies to be used)
- Identification of challenges and problems faced, especially for small satellite platforms

Your Profile

- Interest in space activities
- Willingness to actively engage in research work
- Critical and analytical thinking

Contact

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