

## Postgraduate Environmental Physics / Space lab (summer 2022):

### General structure of the protocol for the practical

The protocol of the experiment should consist of the following points:

0. **Title of the experiment:** group and name of the students; date
1. **Introduction:** Short description of the experiment and its objectives
2. **Theoretical background:** Scientific background on which the experiment is based (1. Why is the measured quantity important, what is it important for; 2. Physics behind the measurement method)
3. **Experimental set up:** Description of the set up used; components and their principle of operation
4. **Experimental procedure:** Description of each step followed during the experiment, indicating the time and all relevant details
5. **Data analysis:** Description of the data obtained, format and conversion procedures required to obtain the results for interpretation
6. **Results and error analysis:** Final mathematical results, giving also the units and with the corresponding associated error. A detailed description of the error analysis should also be included
7. **Discussion of results:** Interpretation of the final results in relation to the objectives of the experiment. You can use the questions given in the instructions for the experiment as a guideline
8. **Appendix:** Raw data in a table or in digital form

The report should be about 6 – 8 pages excluding the appendix. We suggest to use Times-Roman or a similar font at size 11pt with line spacing of 1.5.

**Please use your own words to elaborate the protocol, in particular the points 1 to 4. A simple reproduction of the text given in the instructions for the experiment or the internet will NOT be accepted.**

If you have specific questions to one of the experiments, please contact the corresponding tutor. If you have more general questions, please contact

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