



Master 1 Physics of the XXIst Century – Option Atmospheric Sciences: Research Training 2021-2022

Laboratory: LOA

Supervisor: Olivier Pujol

Tél: 03.20.33.60.05, E-mail: <u>olivier.pujol@univ-lille.fr</u> Collaborator: Thierry Podvin Thierry.podvin@univ-lille.fr

Statistical comparison of two meteorological sensors

This Master 1 internship is devoted to data analysis. Precisely, a statistical comparison of the data (humidity, temperature, wind speed and direction) by two meteorological sensors (DAVIS & VAISALA) will be performed. The goal of this internship is to realize an intercalibration between the two sensors in order to eventually better feed models. A third set of data from Meteo-France at Villeneuve d'Ascq will be used as a reference. The student will have to use Python and a large set (several years) of data. Skills on statistics (averages, standard deviations, higher moments, etc.) are needed. The student will acquire skills in the physics of the measure and, in particular, on the two sensors under study but also on atmospheric thermodynamics.

Key words: