



JOB OFFER

BIRA-IASB is looking for:

A student for an internship (m/f):

Development of a Mobile-DOAS Viewer

Deadline for applications: This vacancy remains open for applications until a suitable candidate is found

Context

The BIRA-IASB Aeromobil is a mobile remote sensing instrument, developed to measure trace gas concentrations which are strongly linked to air quality/pollution. More information about the Aeromobil can be found here: <http://aeromobil.be>. Currently the collected measurements are mapped in a post-processing step. The webinterface or viewer would be a big asset during measurement campaigns in order to detect hotspots in near real-time and would additionally be used for communication purposes, e.g. demonstration during open days. The Aeromobil PC runs a Wi-Fi hotspot, to which users can connect, and a webserver which is started automatically when the system boots. The webserver should monitor the measurements and update the interface in a browser as new results become available. For the maps, data can be used for example from OpenStreetMap, visualized using a javascript "slippy map" such as leaflet.js.

Job description

We are looking for a student to develop a server with webinterface for near real-time map visualization of mobileDOAS measurements of trace gas concentrations such as NO₂. This could be done in the framework of a thesis or internship.

Candidate profile:

- Study a Bachelor or a Master – ICT option
- A general interest in atmospheric chemistry/physics, air quality and/or geoscience is an asset.
- Also a good understanding of English or French + Dutch is an asset.
- This is linked to a project which is already finished so there is no clearly defined deadline. The student can choose the starting date of his internship
- The duration should be a minimum of 1.5 months but can be extended to 3 months or even longer.

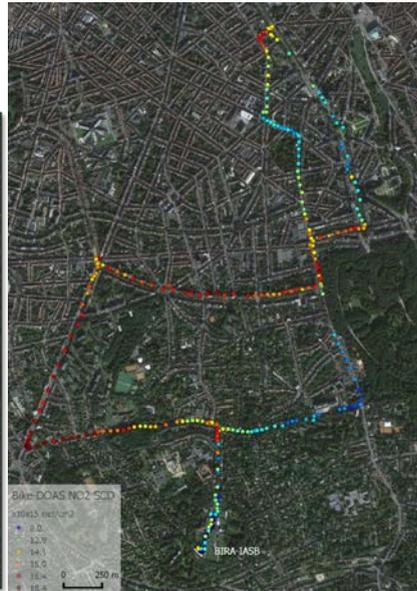
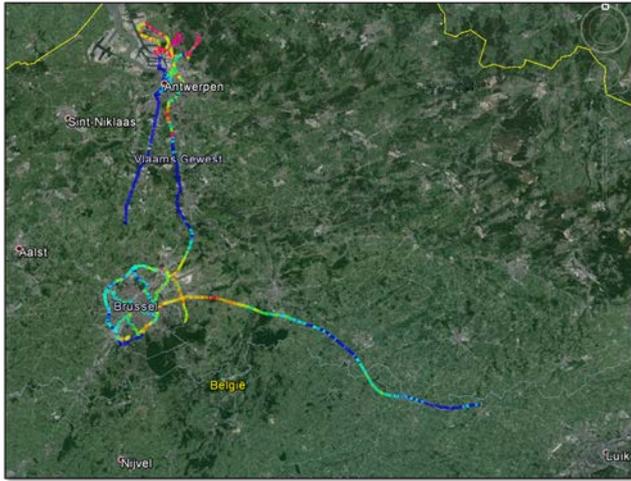
An office can be foreseen at BIRA-IASB, but the development can in principle be done from any location once a sample data set is provided.

More about BIRA-IASB

The Royal Belgian Institute for Space Aeronomy (BIRA-IASB) is a Belgian Federal Scientific Institute. Since its founding in 1964, BIRA-IASB has been conducting research and providing public services in space aeronomy, i.e. the physics and chemistry of Earth's atmosphere and other planets, and outer space.

Our scientists use instruments on the ground, in the air, on board balloons or in space and computer models.

www.aeronomie.be



For more information about this project you can contact:

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Interested?

Send your application letter to:

Frederik.tack@aeronomie.be with hr-ae@aeronomie.be in copy
with the following reference “D31_STUDENT”