



in partnership with



5 September 2017

In support to the European Research Infrastructure for the biodiversity community, the Research Laboratory in Environmetrics and Geomatics of the Earth and Life Institute de l'Université catholique de Louvain, is opening one PhD fellowship in

Natural habitat change detection with Sentinel-1&2 remote sensing for biodiversity monitoring

(12 months, with possible renewal up to 4 years)

In the context of the European Research Infrastructure Consortium for biodiversity and ecosystems (Lifewatch), an **interdisciplinary team coordinated by UCL in partnership with ULg** (biodiversity and landscape unit) provides tailor-made geographic database of the natural habitats in order 1) to contribute to biodiversity information in Wallonia and 2) to reinforce the excellence of European biodiversity research.

Sentinel-2 satellites have been launched since June 2015 that provides unprecedented multispectral time series for land monitoring. Since 2016 Sentinel-1 satellites record every 3 days the whole Europe with active sensors at 12 m resolution. As part of the UCL team, the researcher will be involved in the **methodological developments to produce up-to-date geographical information on the natural habitat** in close interaction with the Walloon administration and the ULg biodiversity research team. The research will also focus on the detection of different types of habitat changes. In addition, he/she will study the feasibility of the integration of citizen science and other data sources to improve the final products.

The candidate could start in the course of October 2017. He/she will be:

- graduated as bioengineer or equivalent ;
- trained in remote sensing and geomatics ;
- fluent in French and English ;
- eligible and motivated to complete a PhD thesis ;
- prone to actively contribute to a service-oriented project.

Additional experiences in biotope and ecosystem monitoring, advanced image processing and algorithm development are most welcomed.

For any complementary information, please contact Mrs Pascal Thiran (+ 32 (0) 10 47 36 81) (pascale.thiran@uclouvain.be) or Dr Julien Radoux (+32(0)10 47 92 57) (julien.radoux@uclouvain.be).

The interested candidates are invited to send a curriculum vitae and a motivation letter by email (pascale.thiran@uclouvain.be and cc:pierre.defourny@uclouvain.be) as soon as possible and not later than the **30 September 2017** to

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