

AVIATION SANS FRONTIÈRES
INTERNATIONAL PROJECTS
AVIATION WITHOUT BORDERS

**AIRCRAFT OBLIQUE AERIAL IMAGERY
FOR A SUSTAINABLE DEVELOPMENT**



AVIATION
SANS FRONTIÈRES
ASF INTERNATIONAL

Wings of Help International



THE PROJECT

The forests of tropical countries are home to animal and plant species on which rural communities depend for their survival. Slash-and-burn agriculture destroys these natural resources.

To respond to this threat, the oblique aerial photography methodology for aerial surveillance of protected areas was developed by Aviation Sans Frontières – Belgium (ASF-B), in collaboration with local partners such as WWF Madagascar.

This innovative methodology helps fight deforestation while involving local communities in the safeguarding of their natural heritage, for the benefit of future generations. It is thus part of a sustainable development approach.

In 2012, for the Aerial Surveillance Project in Madagascar, ASF-B

was awarded the Belgian Price for the Energy and Environment, in the category « Belgians Abroad Eco-Award ».

This simple, and economical methodology has been scientifically tested, which led to the publication of a scientific article in the review Parks in 2015.

These oblique pictures are complementary to drone and satellite images. Whereas drone imagery is mostly appropriated to monitor areas easily accessible of less than 2.000 hectares, aircraft oblique aerial imagery is more appropriated for remote areas of more than 10.000 hectares.

Oblique aerial pictures also represent a strong tool to improve vegetation classification thanks to satellite imagery.

Oblique aerial photography can also be used in the humanitarian sector, for surveys just after a cyclone for example, to orientate ground interventions.





GEOGRAPHICAL LOCATION

Madagascar.

ENTITY RESPONSIBLE

Aviation Sans Frontières' Project Management Hub "Brussels" managed by ASF Belgium.

Xavier Vincke

xavier.vincke@asfbelgium.org



COST

7.500 € allow for covering 500.000 hectares of forest. Oblique aerial pictures, that cost 0.015 € per hectare of forest, are 6.8 to 14.6 times less expensive than high-resolution satellite imagery required for the same level of precision.

Oblique aerial pictures campaigns are usually financed by the conservation organization in charge of the management of the pictured protected areas.

PROJECT STATUS

More than one 800.000 hectares of forest have been covered each year by this methodology since 2010. But no aerial photography campaign is scheduled for 2020.



With its aviation expertise, humanitarian experience, development approach and openness to the commercial aviation sector, **Aviation Sans Frontières (Aviation without Borders)** is a special meeting point, a place to share, a workshop forging common values between the aviation community and the humanitarian community.

With a gift of 40 euros your protect 2.600 ha of forest !

IBAN: CH10 0024 3243 5120 8701 N
BIC: UBSWCHZH80A

Aviation Sans Frontières Suisse

www.asf-suisse.ch

E-mail: info@asf-suisse.ch

Phone: +41 21 353 99 77



Aviation Sans Frontières International

www.asf-international.org

E-mail: christian.georlette@asfinternational.org

Phone: +41 78 846 97 96



Wings of Help International