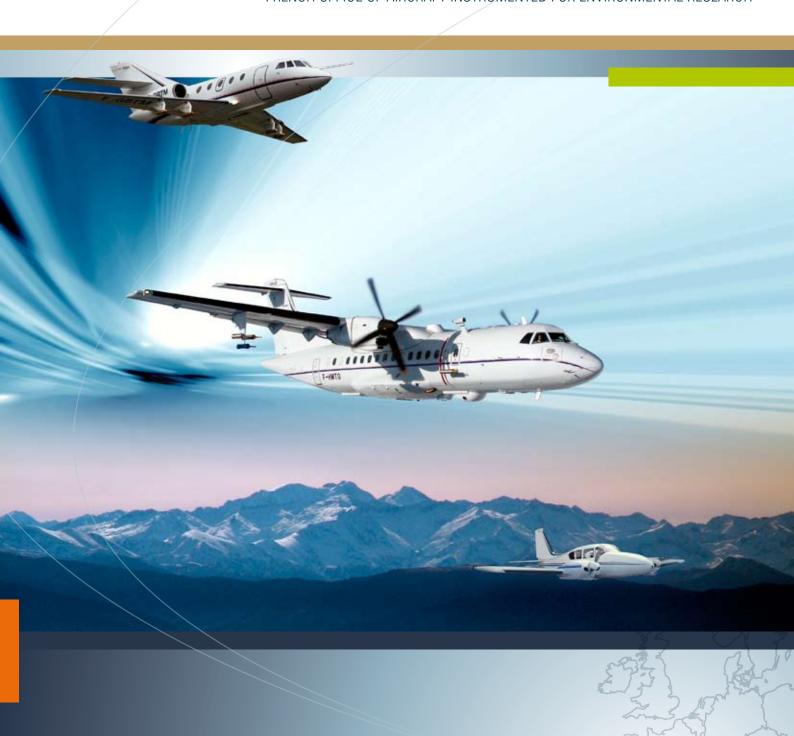


SAFIRE

The atmosphere is our laboratory

FRENCH OFFICE OF AIRCRAFT INSTRUMENTED FOR ENVIRONMENTAL RESEARCH













Your expert in airborne measurements

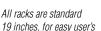
SAFIRE is the french operator of environmental research aircraft available to the international scientific community and to the industry.

SAFIRE brings together the staff and the 3 research aircraft of the CNRS/INSU, Météo-France and the CNES. These 3 institutes have long experience in airborne research, they have operated research aircraft since 1947.

Typical measurements performed onboard

The SAFIRE aircraft has the following core instrumentation:

- Thermodynamics: High speed and sonic thermometers, lyman-alpha, dew-point hygrometers
- Turbulence and wind: 5 holes modified radome or boom with pressure sensors, high sensitivity Inertial Navigation System + GPS
- Air Chemistry: CO, NOx, O3
- Aerosols: specific air-inlets
- Microphysics: underwing pods for standard Particle Measurement Systems (0.3 to 6000 μm)
- Radiative measurements: down and up visible, IR and UV radiations, radiance temperature
- Remote sensing: large openings with quartz/BK7 windows (optionnal) for Lidars, Radiometers, etc.
- Video, photography



intruments integration.



SAFIRE can fly all instruments provided by the users

- Mechanical Integration of instruments
- Aeronautical Certification (Approval EASA AP-DOA 188)
- Data real-time acquisition
- Data processing

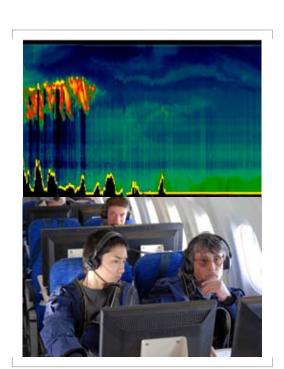
plan des hélices

FRENCH OFFICE OF AIRCRAFT INSTRUMENTED FOR ENVIRONMENTAL RESEARCH

The atmosphere is our laboratory









Research campaigns

- Urban pollutionCapitoul (Toulouse, 2004),Megapoli (Paris, 2009)
 - Climate & Environment
 CarboEurope (Midi-Pyrénées 2005), AMMA
 (Africa 2006), CAROLS (France-Spain 2007
 to 2010), Hymex (Mediterranean Sea 2012),
 Polarcat (Sweden and Greenland 2008),
 EUCAARI (Netherlands 2008)
- Instrument validations
 Pod-Airbus (2005), Adeline-Thalès
 (Toulouse 2005 to 2007)
- Aeronautics weather hazards
 Flysafe (2008)
- Space programs
 A-Train, Calipso, SMOS
- Ocean surface
 CAROLS (France-Spain 2007 to 2010)
 HYMEX (Mediterranean Sea 2012)

SAFIRE helps you to prepare your airborne experiment by:

- Selecting the appropriate aircraft
- Integrating and certifying the instrumentation
- Negociating the flight plans with aviation authorities
- Consolidating the financial plan and obtaining grants



Our partners:

Laboratories

Météo-France/research center LAMP, Clermont-Ferrand

LA, Toulouse

LOA, Lille

LATMOS, Paris

LISA, Créteil

IRD

Industries

THALES

Airbus

RTRA STAE

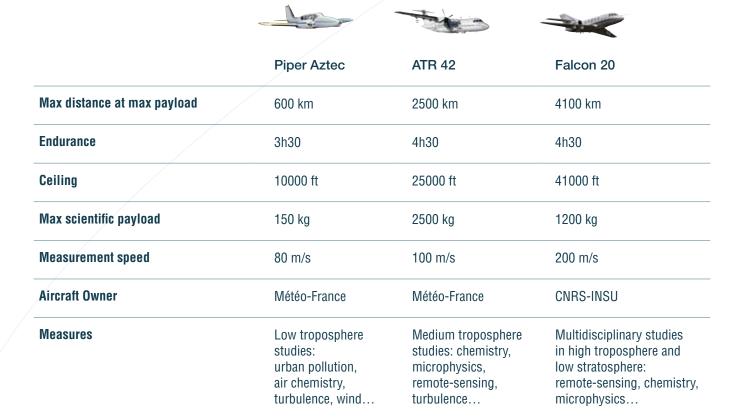
A european involvement:

EUFAR

SAFIRE is a member of the european network of research aircraft (www.eufar.net)

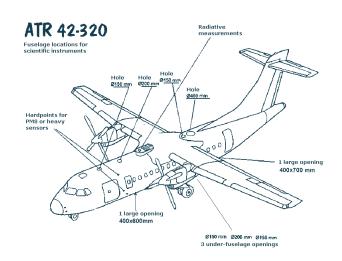
COPAL

SAFIRE participates to the european project of heavy payload and large endurance aircraft.



The infrastructures

25 engineers and technicians operate the aircraft and instruments from Toulouse Francazal where are located the SAFIRE offices, laboratories and hangar.



We can help you prepare your project. Contact us:

SAFIRE

Base aérienne 101 de Toulouse-Francazal Avenue du Général Barès BP 20016 31270 Cugnaux

tél.: +33 (0) 534 57 23 23 fax: +33 (0) 534 57 23 00

Email: desk@safire.fr



www.safire.fr







