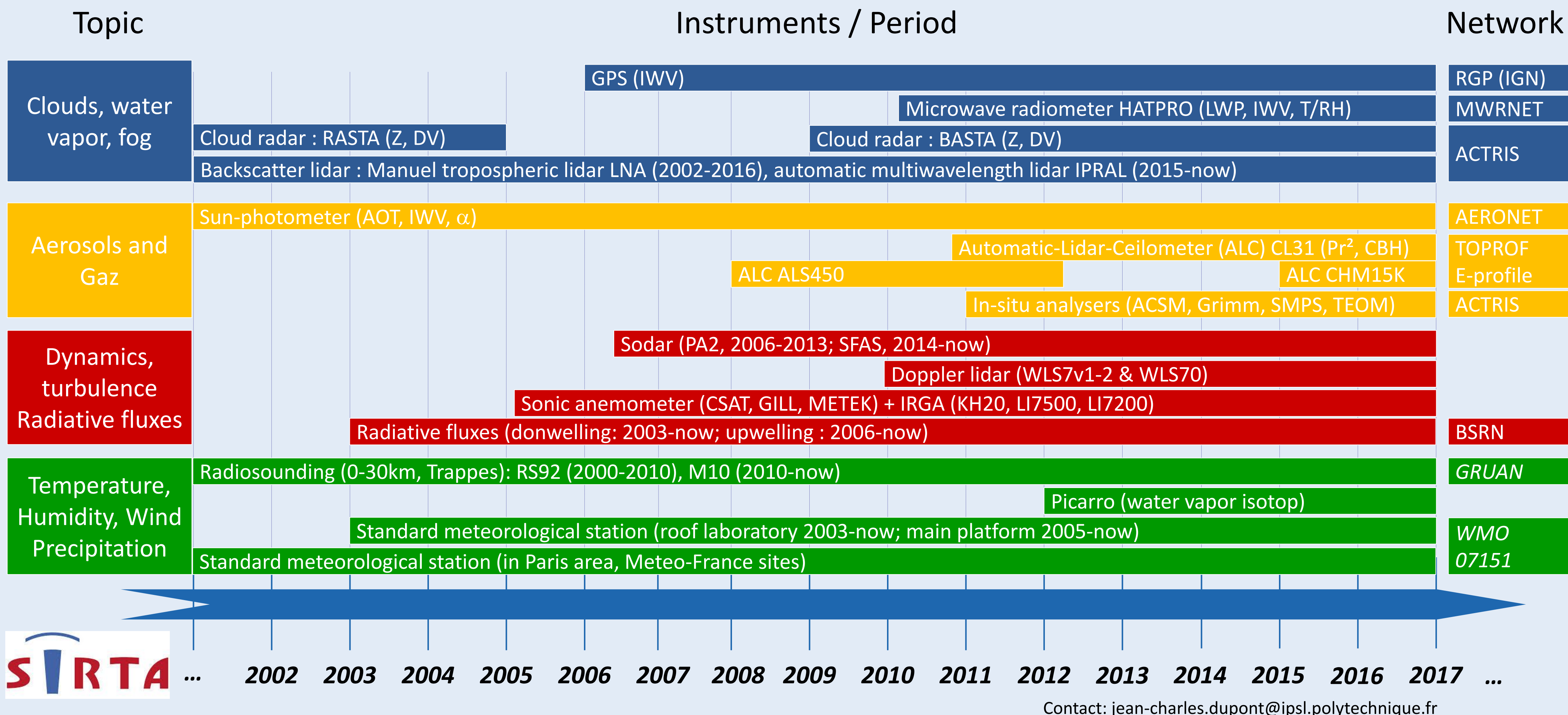


SIRTA basic informations

Location: Palaiseau and Orme des merisiers, 20 km SSW of Paris (France) Lat/Lon: 48.7° N / 2.2° E
Laboratories contributing to SIRTA operations: IPSL, LMD, LATMOS, LSCE, CERE, LP2CE, LOA, IPGP, GEEPS
Institutes supporting SIRTA operations: CNRS, Ecole Polytechnique, UVSQ, CNES, Météo-France, EDF R&D, CEA, INERIS
Web site: <http://www.sirta.fr>, **E-mail:** sirtatech@lmd.polytechnique.fr

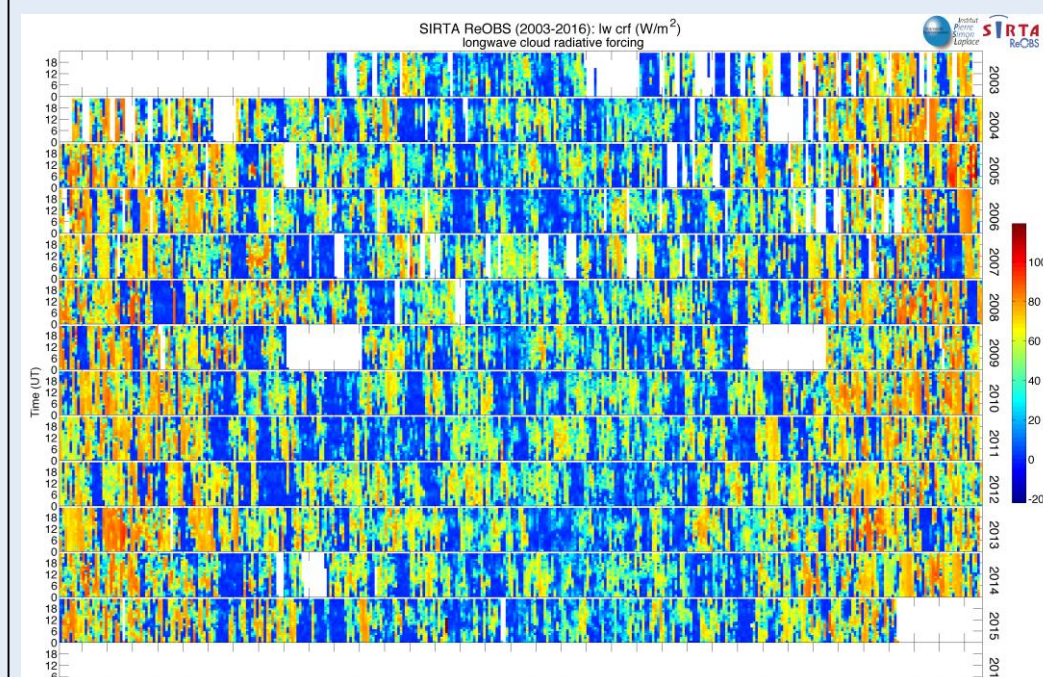
15 years of atmospheric measurements at SIRTA (<http://www.sirta.fr>)



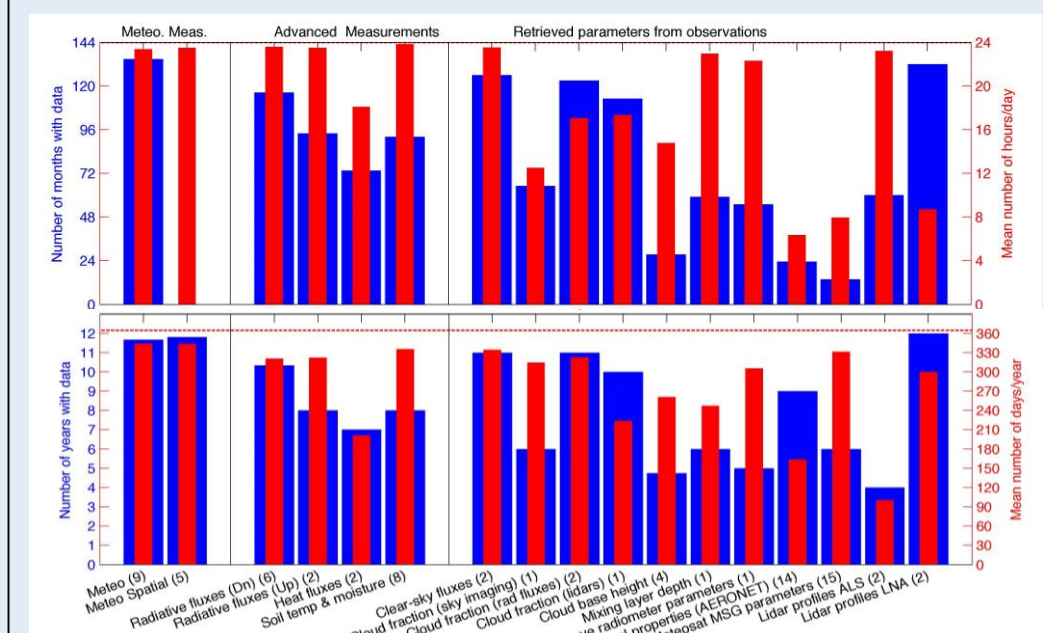
SIRTA-ReOBS long-term data file

- 50 parameters in an unique netcdf file;
- 15 years;
- Quality control ++
- Spatial and temporal variability
- <http://sirta.ipsl.fr/reobs.html>

LW cloud-radiative forcing



Temporal coverage of each parameter



Contact: marjolaine.chiriaco@latmos.ipsl.fr

15 years of national and trans-national access to SIRTA for field campaigns

Contact: martial.haeffelin@ipsl.fr

VAPIC (2004-2005)
PI: O. Bock (IGN)
Obj.: Water Vapour Profiling Inter-Comparison (GPS, lidar, photometer, MWR)

PARISFOG (2006-2007, 2009-2012)
PI: T. Bergot (CNRM) ; M. Haeffelin, J.C. Dupont (IPSL)
Obj.: Better understand physical processes driving fog life cycle.

RISC-UV (2008-2009)
PI : S. Godin-Beekmann, M. P. Correa (LATMOS).
Obj.: Link between the observed increase in skin cancer incidence rates and the variation in UV radiation

MEGAPOLI (2010-2011)
PI : M. Beekmann (LISA) ; J. Sciare, (LSCE)
Obj.: Better quantify carbonaceous aerosol formation in a tertiary type mid-latitude megacity

COMP-OH (2011-2012)
PI: C. Shoemaker (PC2A) ; V. Gros (LSCE)
Obj.: compare and provide OH reactivity measurements made with different techniques

TEMPERAIRE (2014)
PI: R. Hallali (LATMOS)
Obj.: Atmospheric refractivity measurement derived from radars (9.42 GHz and 95 GHz) and in-situ sensors.

ACSM (2015)
PI: J. Sciare, J.E. Petit (LSCE)
Obj.: Intercomparison and calibration of 15 European ACSM

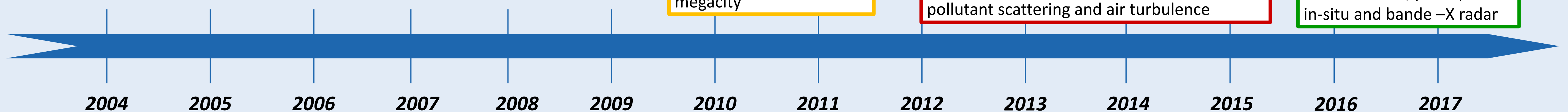
TRACAGE (2012-2016)
PI: E. Dupont (CERE)
Obj.: Better understand relationship between pollutant scattering and air turbulence

BALLOON (2015-2016)
PI: J.C. Dupont (IPSL)
Obj.: Vertical profile with LOAC OPC to derive cloud droplet properties, comparisons with BASTA cloud radar

NAWDDEX (2016)
PI: G. Rivière (LMD)
Obj.: Increase the physical understanding and to quantify the effects of diabatic processes on disturbances to the jet stream near North America

ATMOS-PRECIP (2016)
PI: J.C. Dupont (IPSL)
Obj.: Derive precipitation properties (size, concentration, phase) with in-situ and bande -X radar

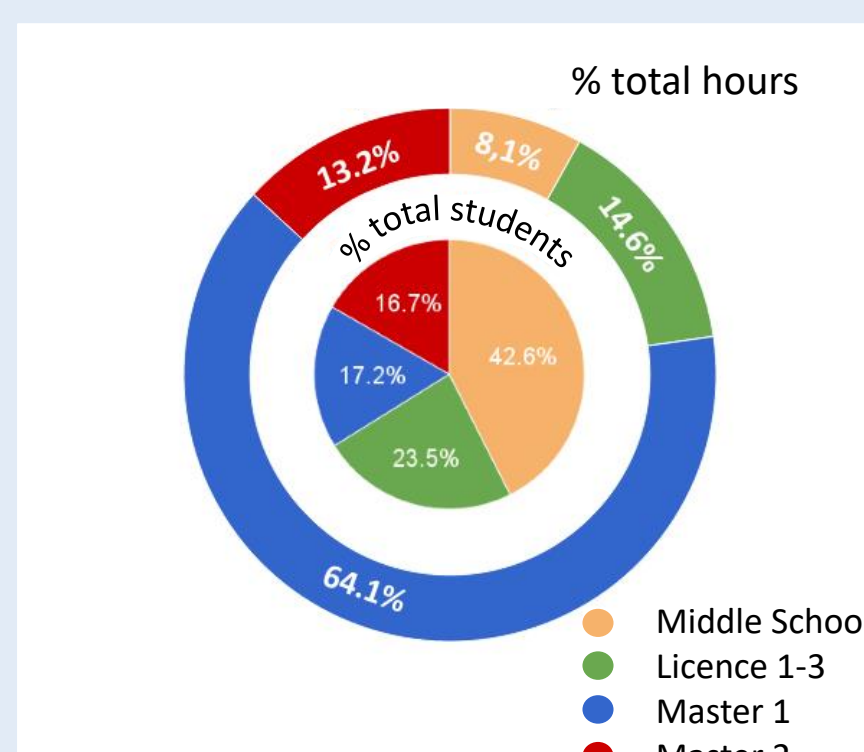
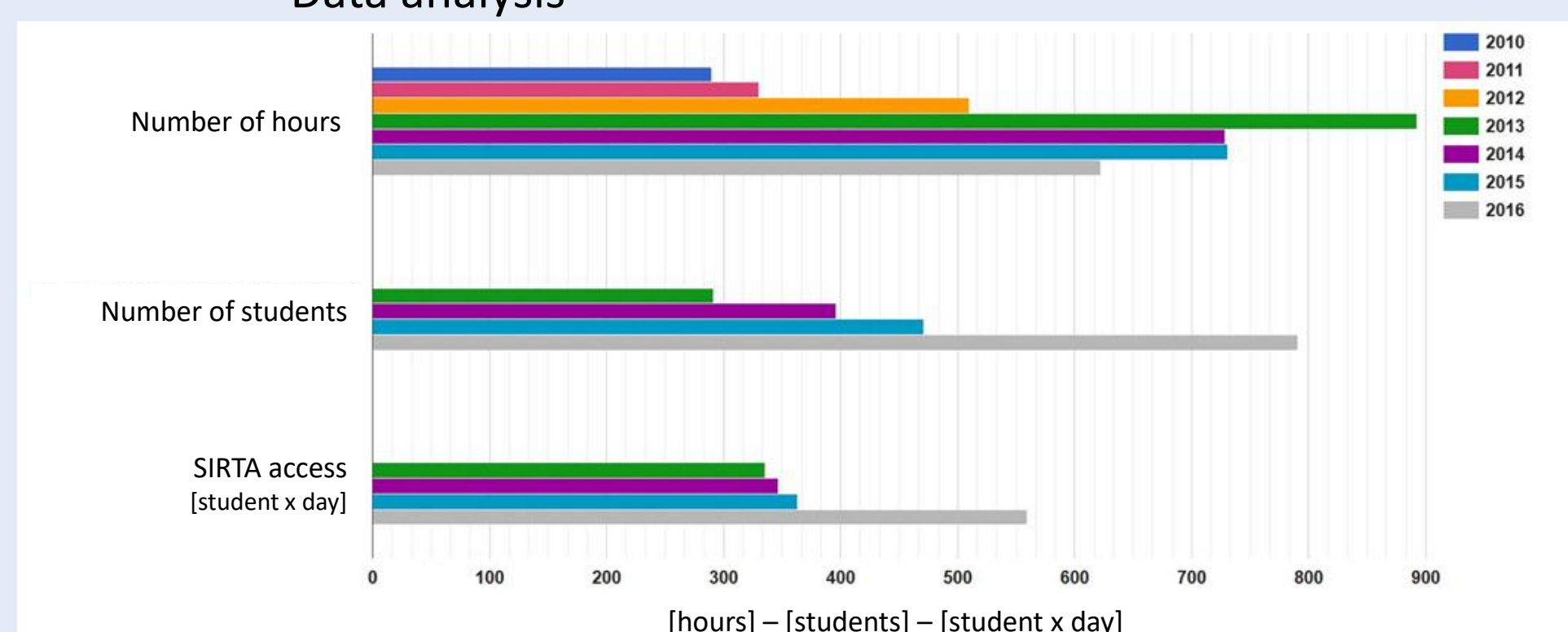
To deploy one instrument or organize a field-experiment at SIRTA observatory, fill the form : <http://www.sirta.fr> and form [instruments_deployment_request](#)



15 years of national and trans-national access to SIRTA for Education

- Field work for undergraduate and graduate students
- Summer schools
- Instrument testing
- Remote sensing measurements
- Data analysis

Contact: imma.bastida@ipsl.polytechnique.fr



Experimental LIDAR



LIDAR simulator

