Remote Sensing Solutions

Dr. Stéphane Victori
Head of the Scientific Team

CINEL
EXPLORE THE CLIMATE

Who we are…

French manufacturer of meteorological and atmospheric observation systems for all “weather sensitive” activities

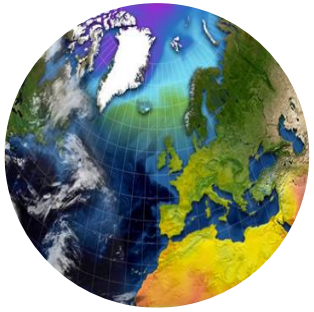
High quality & robustness for harsh environments

Autonomous & reliable field equipments

Smart design & economical systems

50 years of continuous leading expertise in the core of tomorrow markets

Meteorology



Climate change

Oceanology

Air quality

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What we do: Remote Sensing instruments

CE318-T Sun Sky Lunar Photometer

The CE318 is the reference for automatic multispectral atmospheric photometry.
Developed for the NASA in 1992, it was constantly improved…

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CE376 micro LiDAR

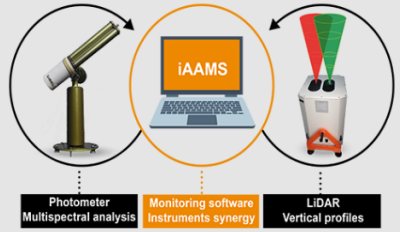
The CE376 is the latest compact, eyesafe backscatter LiDAR, featuring outstanding performances for the automated continuous monitoring of aerosols.
It operates in the visible (green) and/or in the near…

DISCOVER

CE370 Long range aerosol LiDAR

The CE370 LiDAR provides continuous & real-time operation with high performance measurements of aerosols and clouds including the vertical distribution with an extended range (up to 20 km)…

DISCOVER



Automatic Aerosol Monitoring Solution (AAMS)

Cimel provides instruments synergies between Photo-meters and LiDARs through a unique monitoring sof-tware iAAMS, dedicated to aerosols study and analy-sis. The obtained parameters are the characterization…

DISCOVER

CE312 High precision IR Radiometer

The CE312 IR radiometer is the precision instrument for measurements of spectral luminance in 4 to 6 thermal InfraRed bands. Thanks to differential measurement principle, it performs highly accurate…

DISCOVER

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Some of our partners…

- Calibration
- R&D lunar AOD
- Data center (operational)

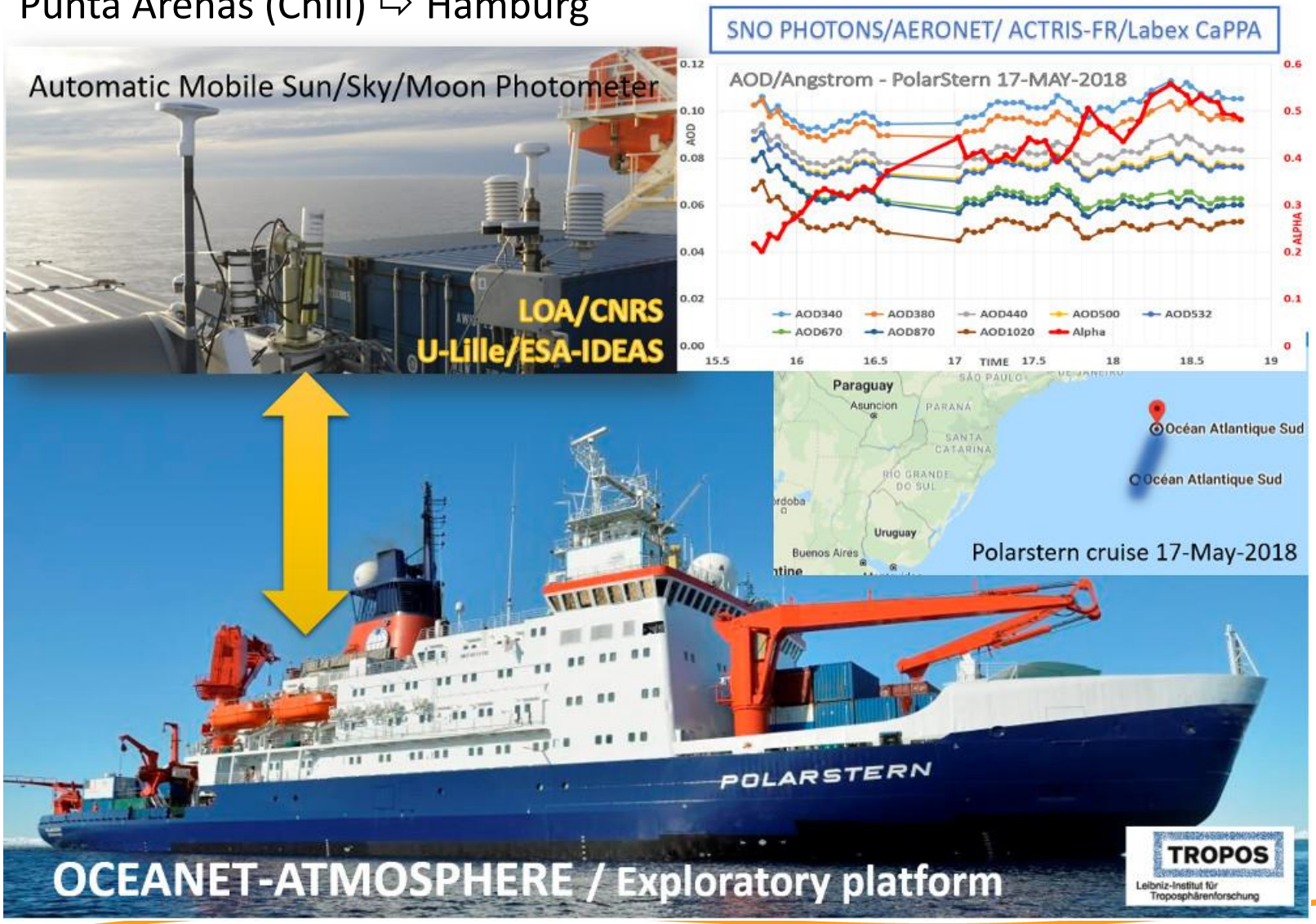
- LiDAR Reference
- Calibration platform

- Calibration
- Measurement campaigns
- Data center (operational)

- Calibration
- R&D LiDAR bi-λ
- R&D photometer lunar

OCEANET – campaign 2018

Punta Arenas (Chili) ⇨ Hamburg



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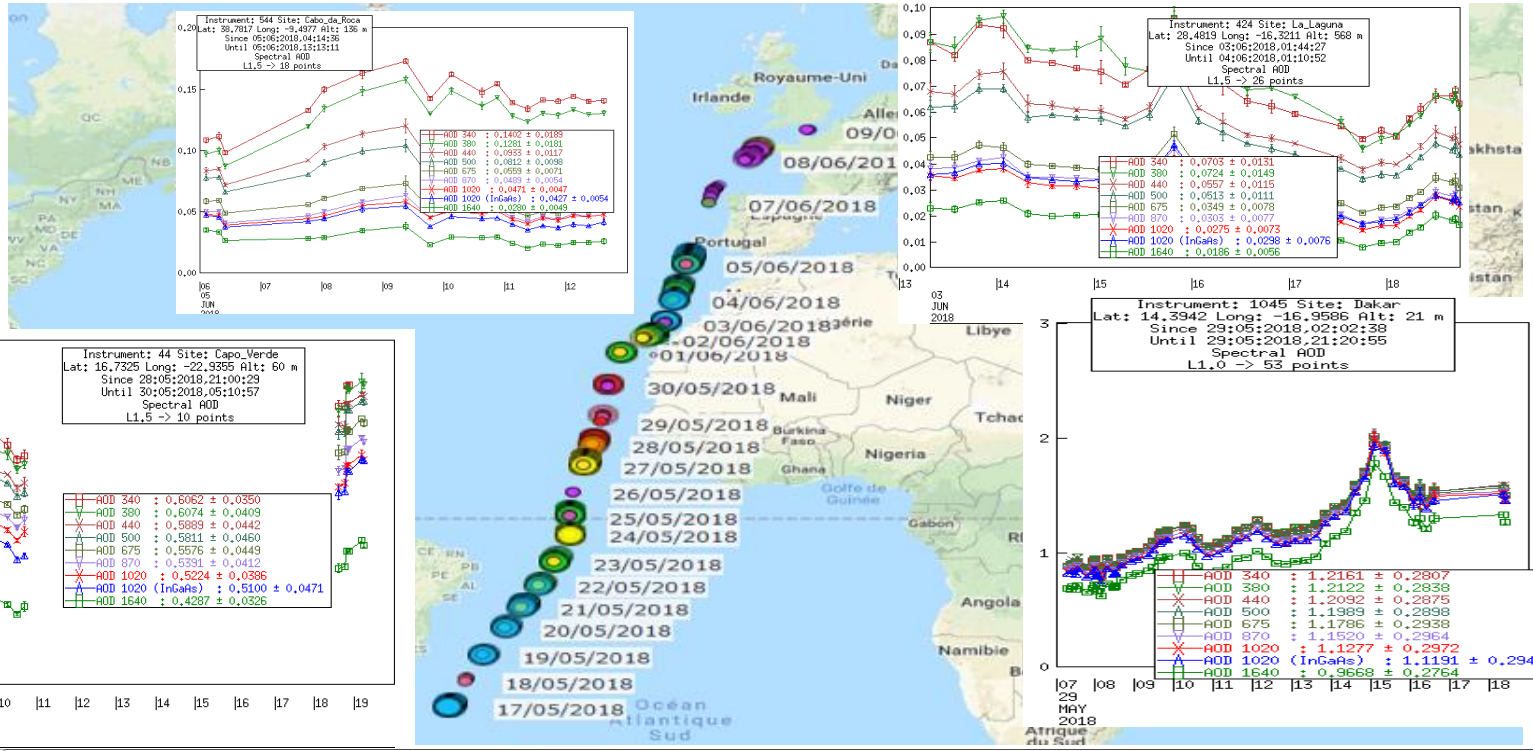
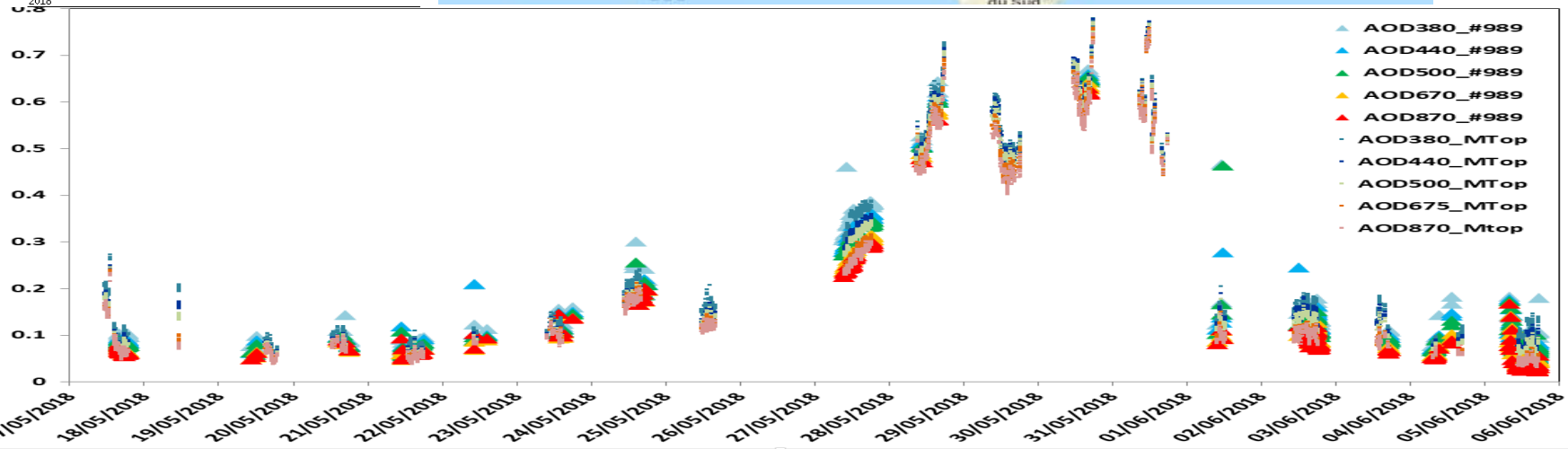
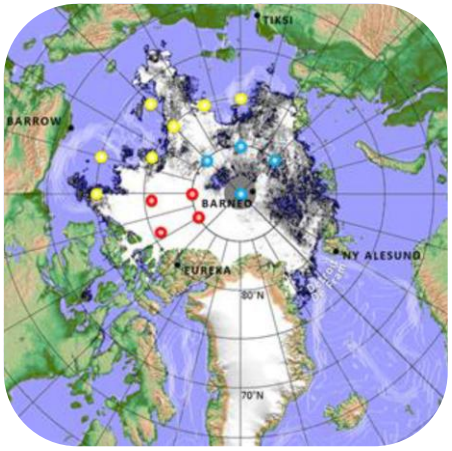
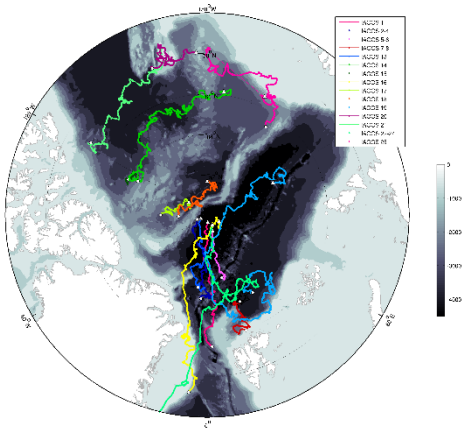
POLARSTERN – campaign 2018

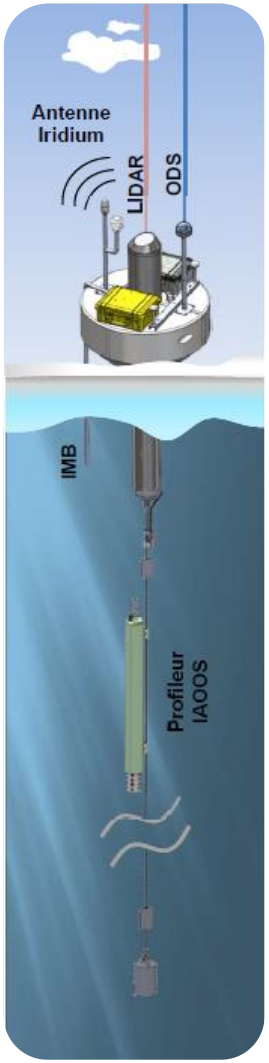




IAOOS EQUIPEX project







➔ **Development of an integrated system collecting real-time & simultaneous observations of the ocean, ice, snow and atmosphere in the Arctic area**

➔ **Deployment of a thirty platforms' network so far**

Challenges

- No solar panel, autonomous for 2 years with batteries
- Harsh environmental conditions
- Miniaturisation of LiDAR
- Low power consumption (10 W)
- Up to 3 km by day

LATMOS UPMC SORBONNE UNIVERSITÉS cnrs INSU

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Thank you for supporting Cimel