PICARRO

Providing Solutions to the World's Most Challenging Environmental Questions

Supporting Science Since 2002

GHG

Trace Gases

Stable Isotopes

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WHO
ARE WE?

- Over 45 patents owned by Picarro or exclusively licensed from Stanford University
- Global HQ, including R&D and manufacturing
- Thousands of Picarro instruments in 60+ countries world-wide

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Flexible Research Options

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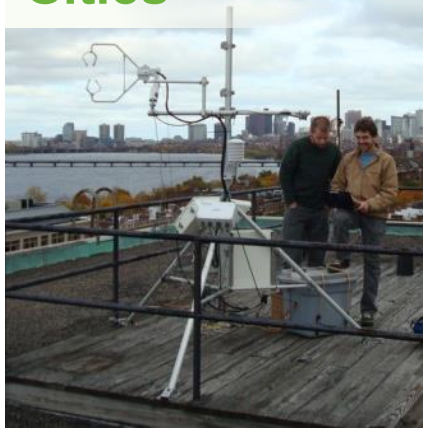
Get out of the lab

…wherever your research takes you.

Cities



Towers

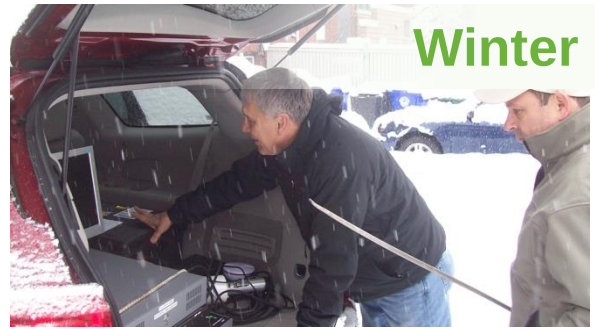
Ships

Aircrafts

Mountains

Laboratory

Winter



Mules

Forests

Deserts

Glaciers

Unravel the cycle of stable isotopes in soil

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Completing the GHG budget

High-precision, real-time measurements of atmospheric nitrous oxide (N_2O)

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Eco-system Fluxes

Ensuring annual CH_4 emissions & N_2O effluxes are correctly measured, including during inundation.

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Soil Biology and Biochemistry

Characterize the properties of soils using a suite of isotopic analyzers and peripherals.

SEE PEER REVIEWED LITERATURE:

"Precise and accurate $\delta^{13}C$ analysis of rock samples using Flash Combustion–Cavity Ring Down Laser Spectroscopy"

*David Balslev-Clausen,*ab Tais W. Dahl,ac Nabil Saadd and Minik T. Rosinga - University of Copenhagen DENMARK*

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Navigate the ocean

Air/sea gas exchange measurements

Arctic Water and Carbon Isotope Cycles from the USCG Icebreaker Healy:
Chukchi Sea, Alaska July 2016

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Urban metabolism

Isotopic source attribution in cities

Simultaneously measure ^{13}C of both CO_2 and CH_4

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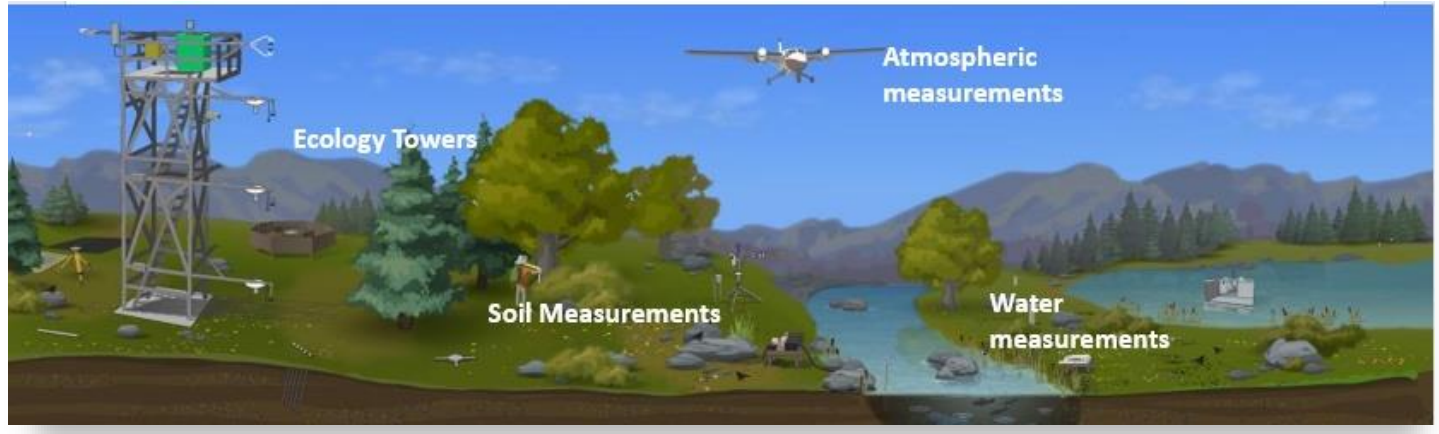
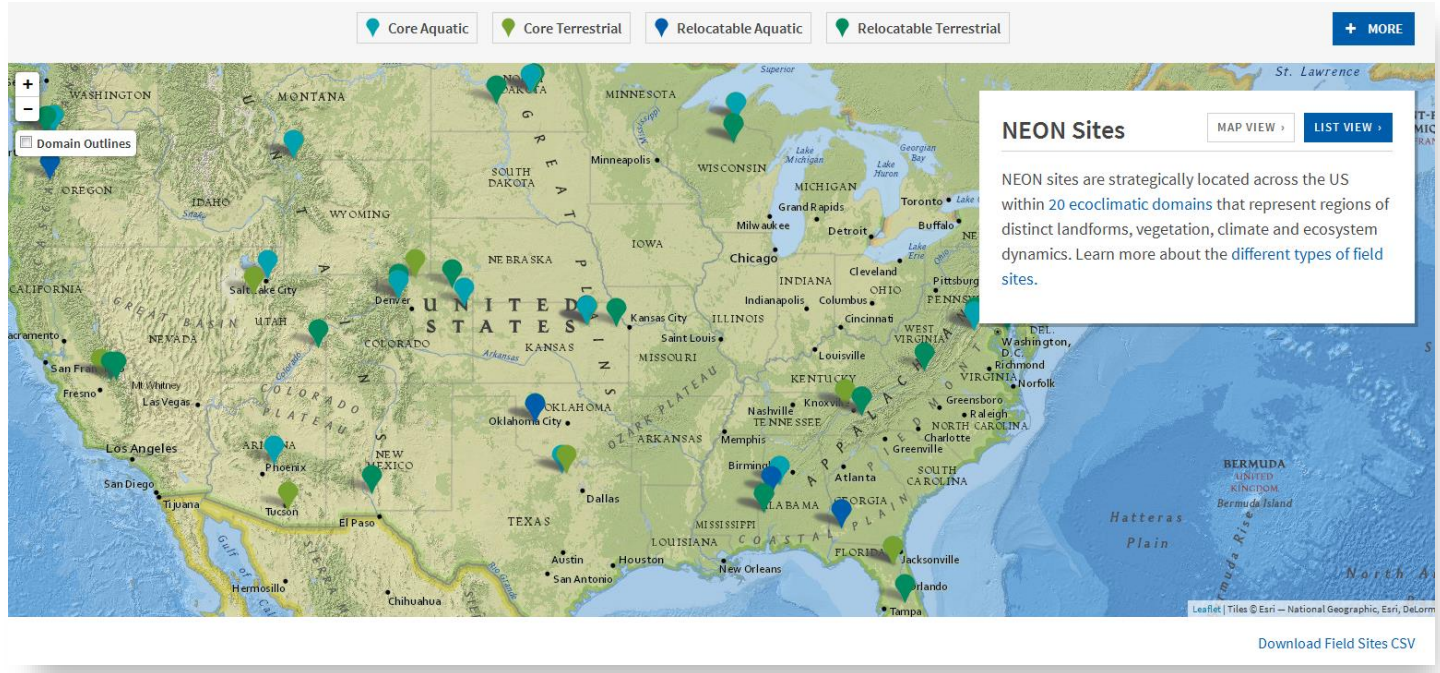
Ecological Forecasting

Open Source National Network of Iso-Water & Iso-Carbon instruments





Ultra-high sensitivity

Characterizing sources and sinks of oxygen (O_2 and $\delta^{18}O$)

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Fast data, fast monitoring

Keeping up with the Eddy Covariance

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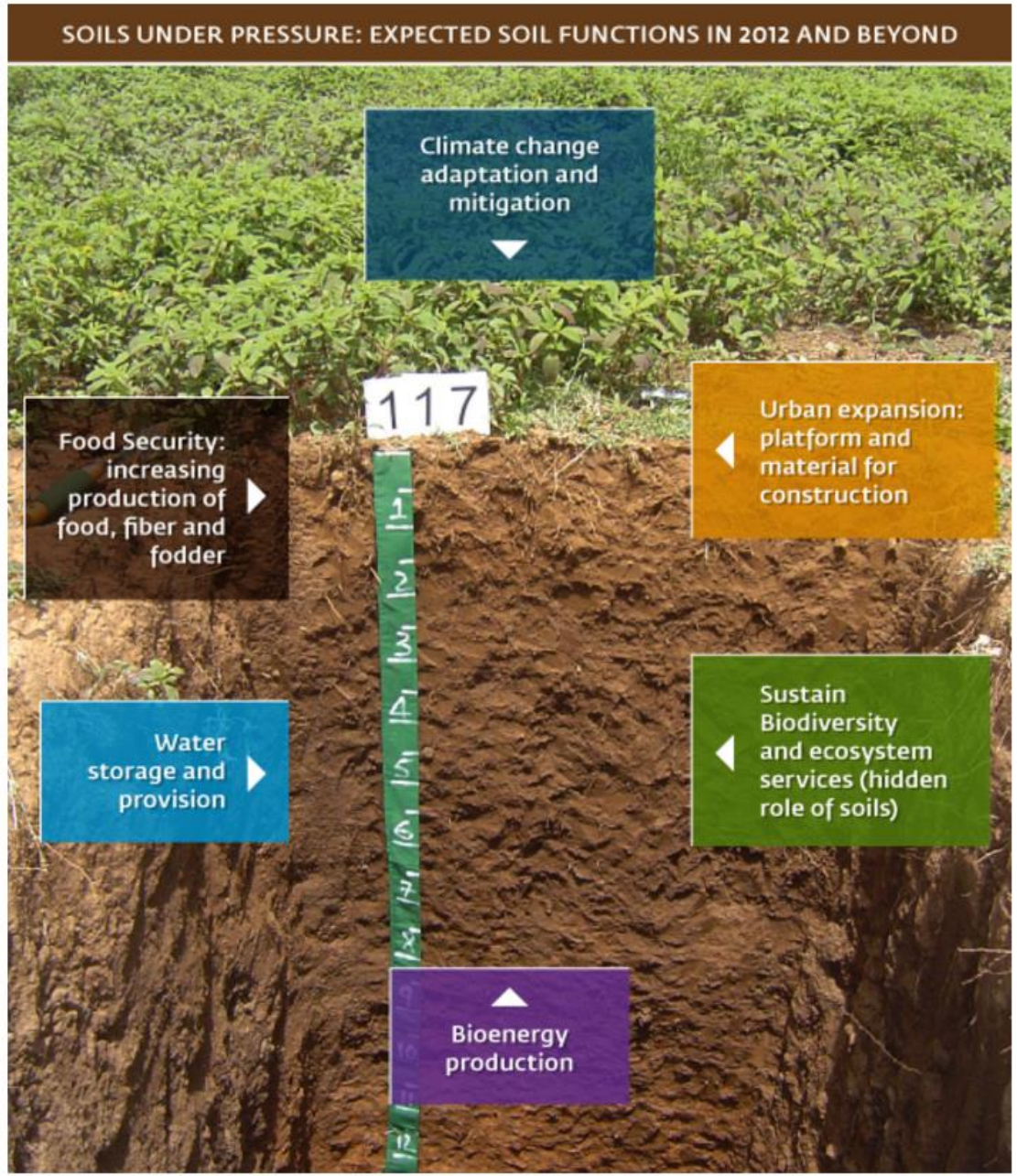
Global Soil Partnerships

International Atomic Energy Agency / Food and Agriculture Organization

Sustainable use of fertilizers in agriculture is one of the most efficient climate change mitigation steps towards a reduction of GHG emissions and global warming.



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Monitoring Emissions of Hazardous Air Pollutants?

H_2S, HCl, HF, and C_2H_4O (EtO)

Multi-species and Isotopic Measurement Systems

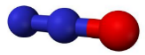
L2140-i Isotopic Water Analyzer for $\delta^{18}O$, $\delta^{17}O$ and δD

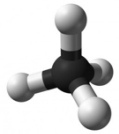
G2201-i for $\delta^{13}C$ in CO_2 and CH_4

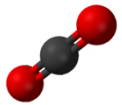
Evaluating Ecosystem Emissions of Greenhouse Gases?

Measure critical GHG with one analyzer, simultaneously and continuously in the field

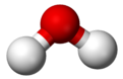
Species and measurement precision:

N_2O: < 5 ppb 

CH_4: < 5 ppb 

CO_2: < 200 ppb 

NH_3: < 1 ppb 

H_2O: < 100 ppm 

Picarro G2508 Analyzer

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Picarro G2201-*i* for $\delta^{13}C$ in CO_2 and CH_4

- World's only analyzer providing simultaneous $\delta^{13}C$ in CO_2 and CH_4 measurements
- Excellent precision at a fraction of the operating cost of IRMS

Picarro GasScouter™

- **Simultaneously measures CO_2, CH_4, and H_2O** concentrations
- Startup time < 5 minutes
- **Lightweight (~11Kg)** for true portability in the field
- **Low power (25W)** and Built-in Battery offers up to **8 hours of continuous measurement**

Multi-species and Isotopic Measurement Systems

Used by leading organizations across the globe

ASK OUR BOOTH STAFF HOW TO GET STARTED

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