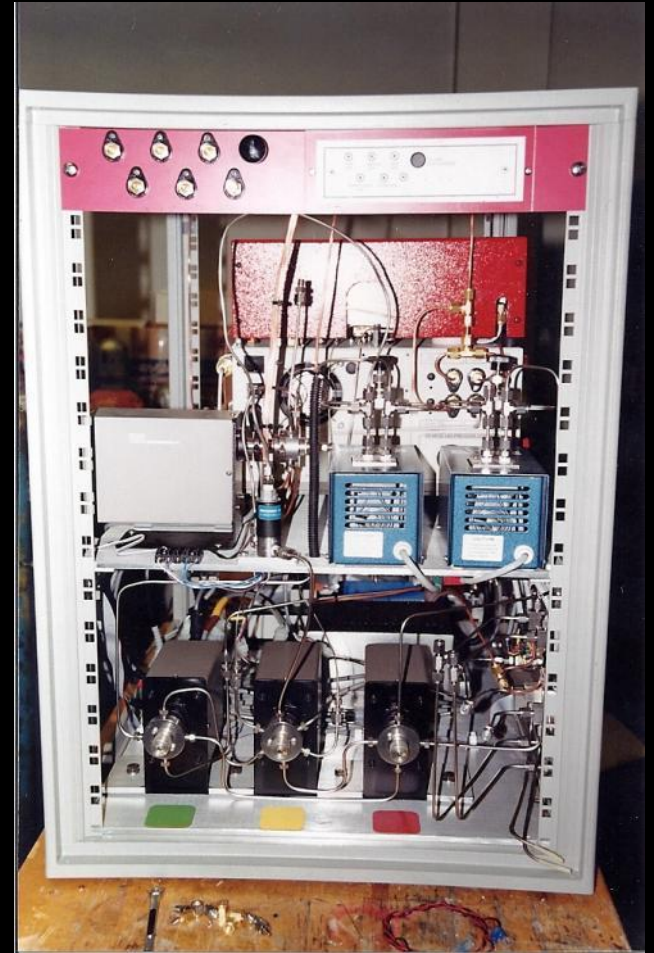


Tom's early years and ocean science



The pCO₂ gas chromatograph system
Tom packaged for Taro's ocean program



pCO₂ System rear View

Another system packaged by
Tom for Taro's Ocean work



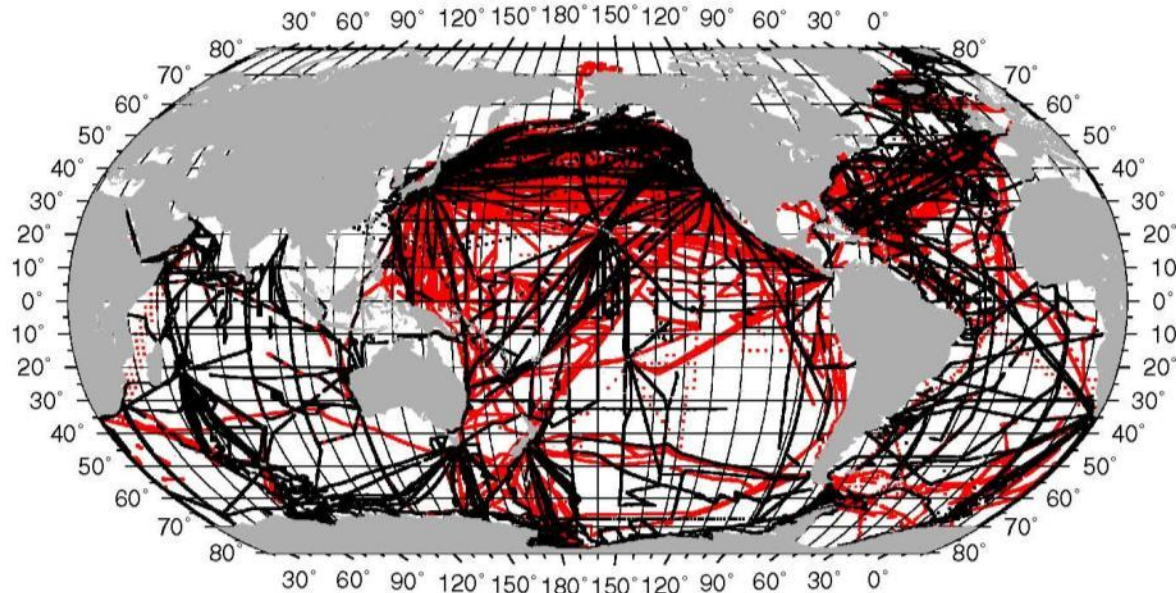
Real-time pCO₂
IR Analyzer



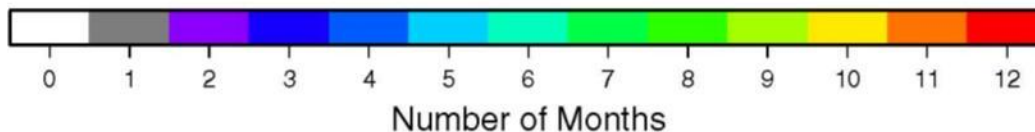
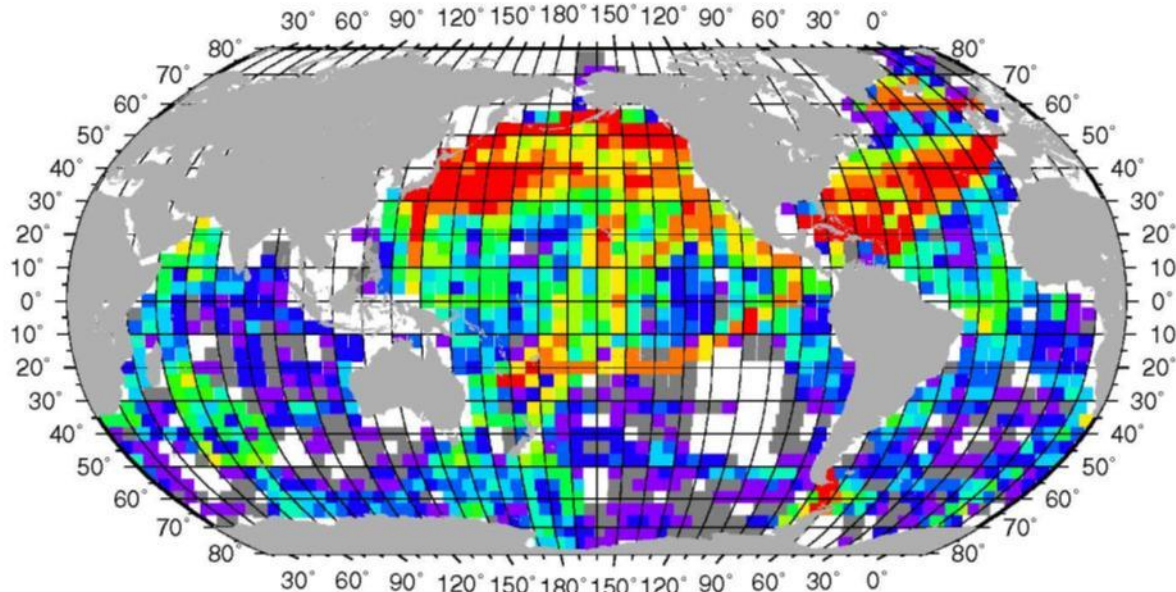
<http://web.vims.edu/bio/microbial/NBPship.html?svr=www>



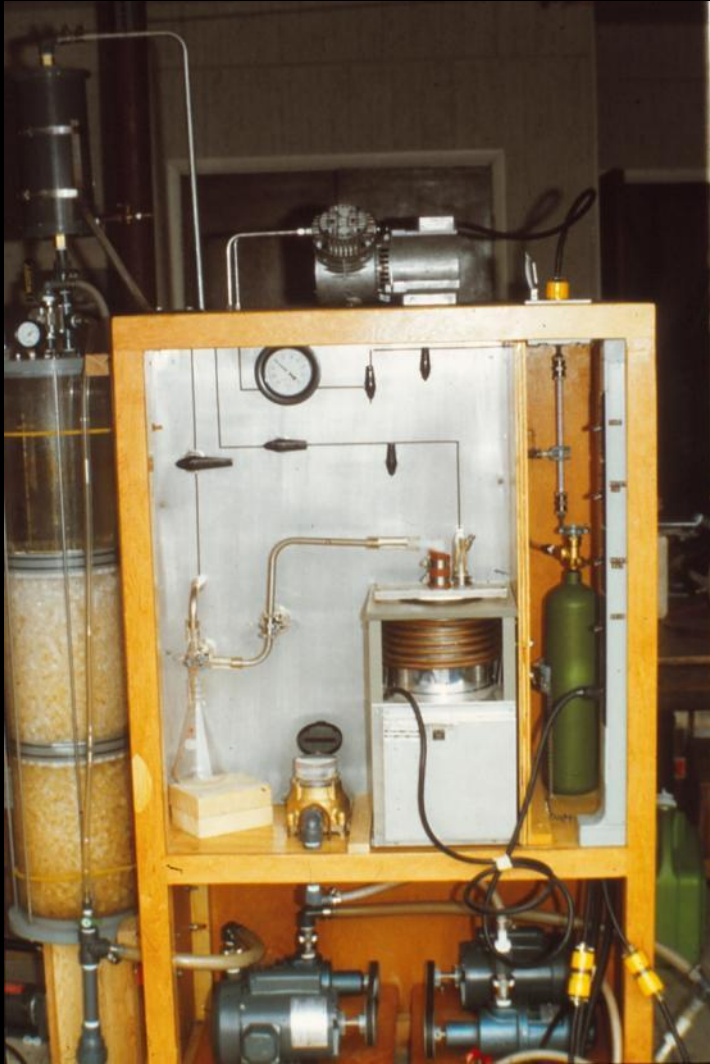
pCO₂ GC and IR Systems
aboard the RV/IB N B Palmer



Taro's cruises
with real-time
pCO₂ equipment
packaged by
Tom Protus



Krypton-85 sampling at sea





Blue water
Diving rig



Shark Stick



Culture Tank

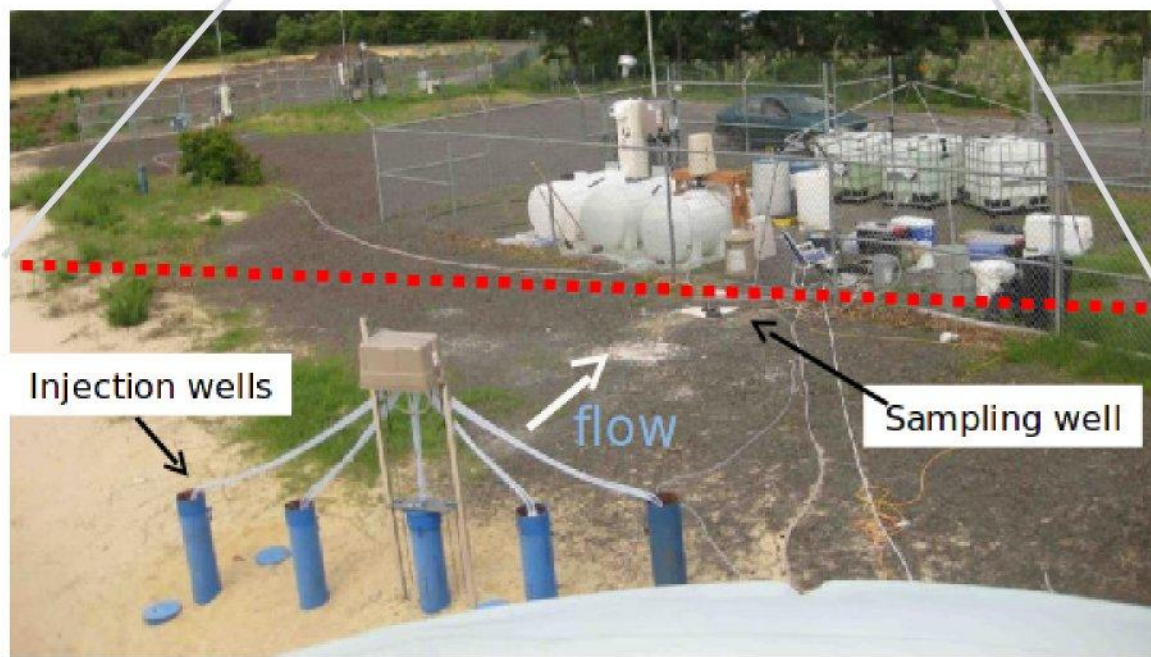
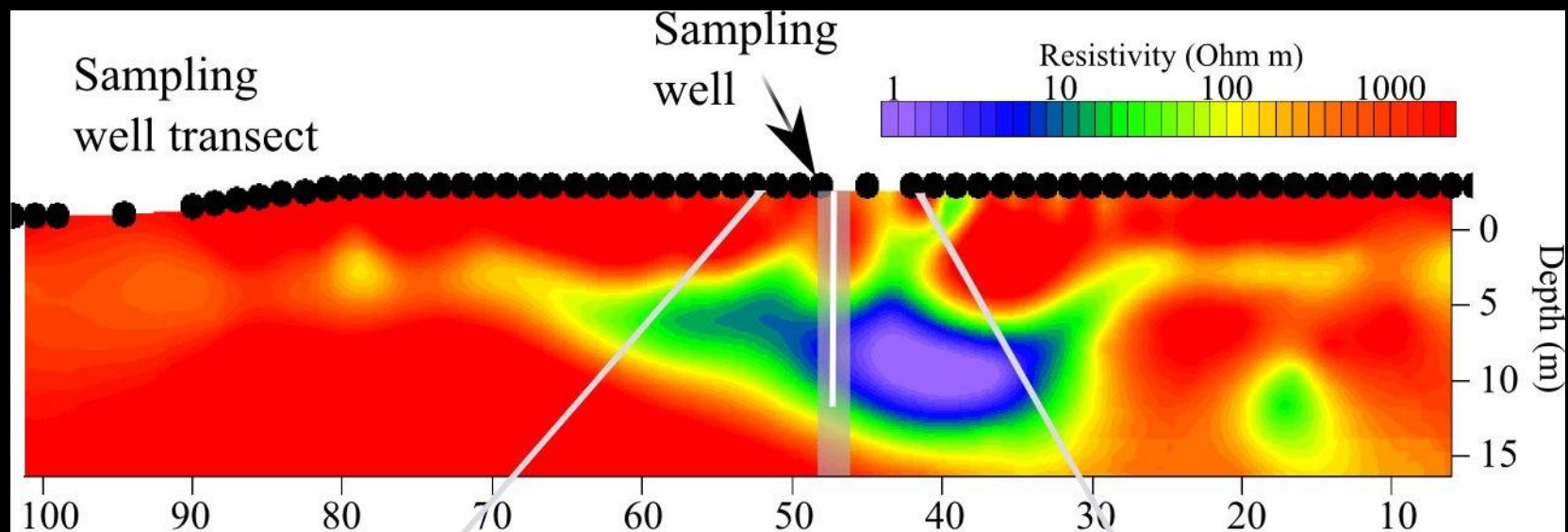
Collection and culturing of planktic foraminifers near
Puerto Rico. All equipment built by Tom Protus



Katharina Pahnke using the pressurized rosette for large volume sea water samples

Injection manifold for evenly distributing injection tracers and oxalic acid to
Increase speed of remediation at a Superfund Site in Vineland, NJ







Ivan's field experiment of arsenic absorption and mobilization (Bangladesh)

Martin and colleague in Bangladesh



Tom Protus, Rusty Williams and Bob Lupton





1973

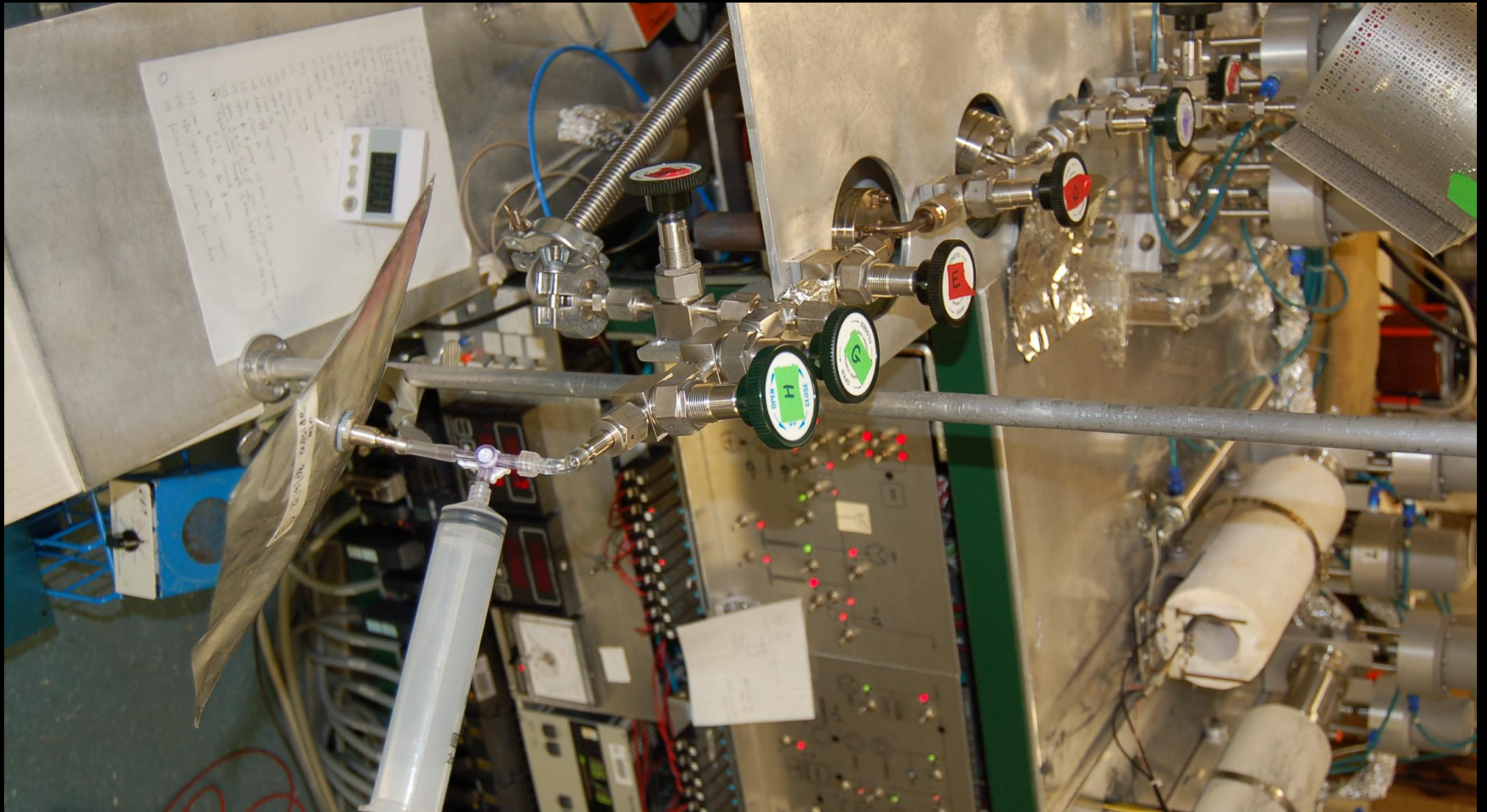


1985

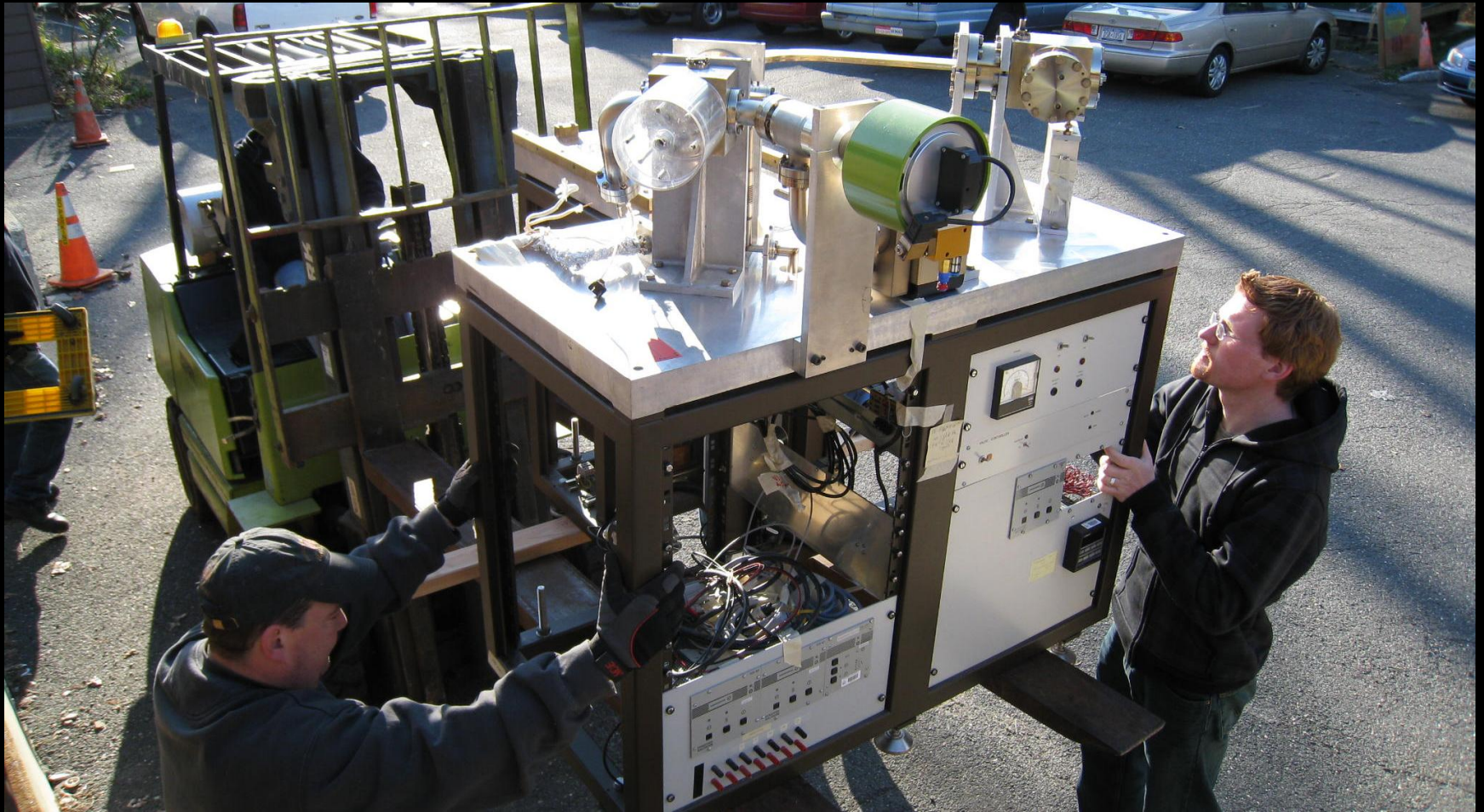


2010

MAP ion source



Moving equipment over into Comer a B&G and Tom Protus Production



Pilots on cook-fire exposures in Kenya and Ghana









"I would like to express my thanks to Tom for taking biomass (exposure monitoring) field studies in rural Africa from the dark ages into modernity! It was Toms's innovation, craft and vision, that allowed us to successfully conduct personal air monitoring and simultaneous kitchen air sampling over 24-hours - with resulting valid data! He magically transformed the -very cumbersome - monitoring equipment into palatable and portable gear for local women working the fields all day, and successfully protected the stationary equipment from the elements, the cattle and the curious. Thank you Tom for all your hard work - and for having the equipment revamped at a moment's notice!"

Eleanne van Vliet- MSPH Graduate Student

Air pollution equipment for 3 studies placed Over 1500 home set ups in NYC and Los Angeles

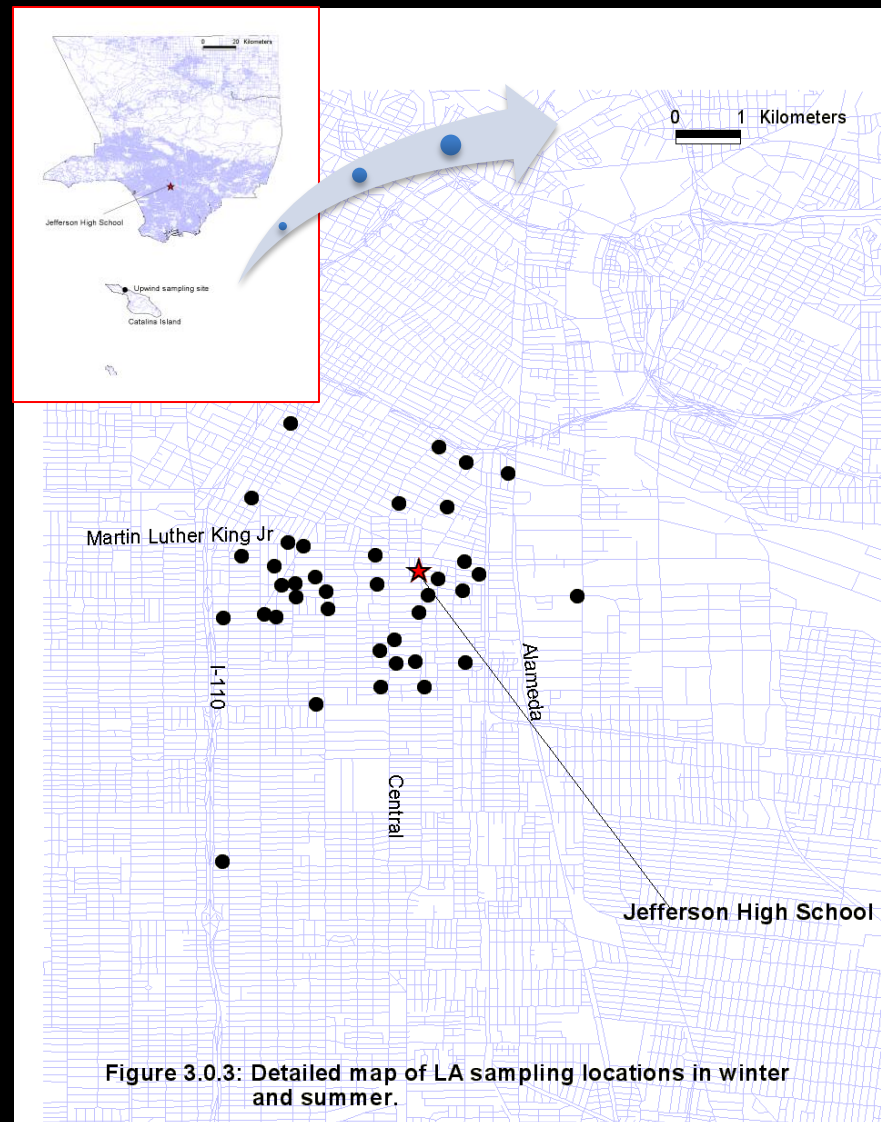
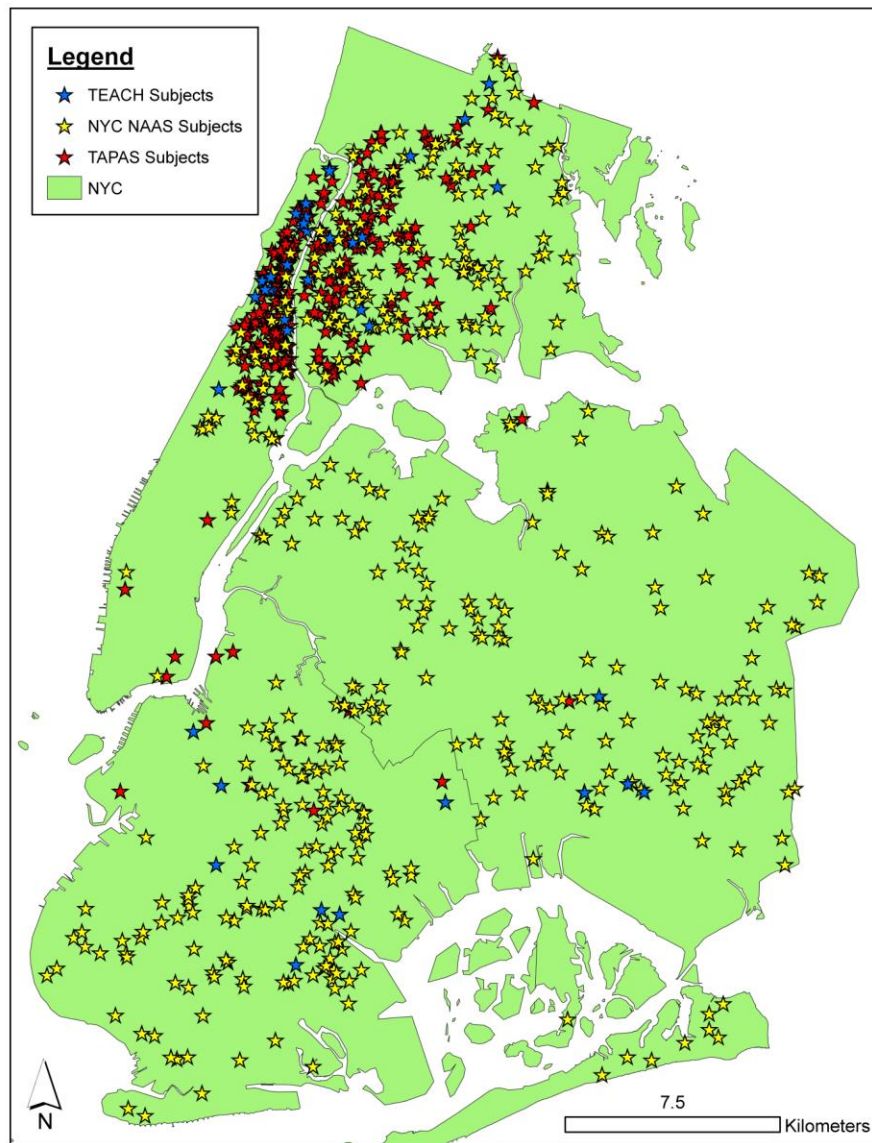


Figure 3.0.3: Detailed map of LA sampling locations in winter and summer.

Indoor Black boxes and Outdoor Sampling via window unit



Setting up central site sampling at school roof





Indoor and Outdoor air sampling equipment

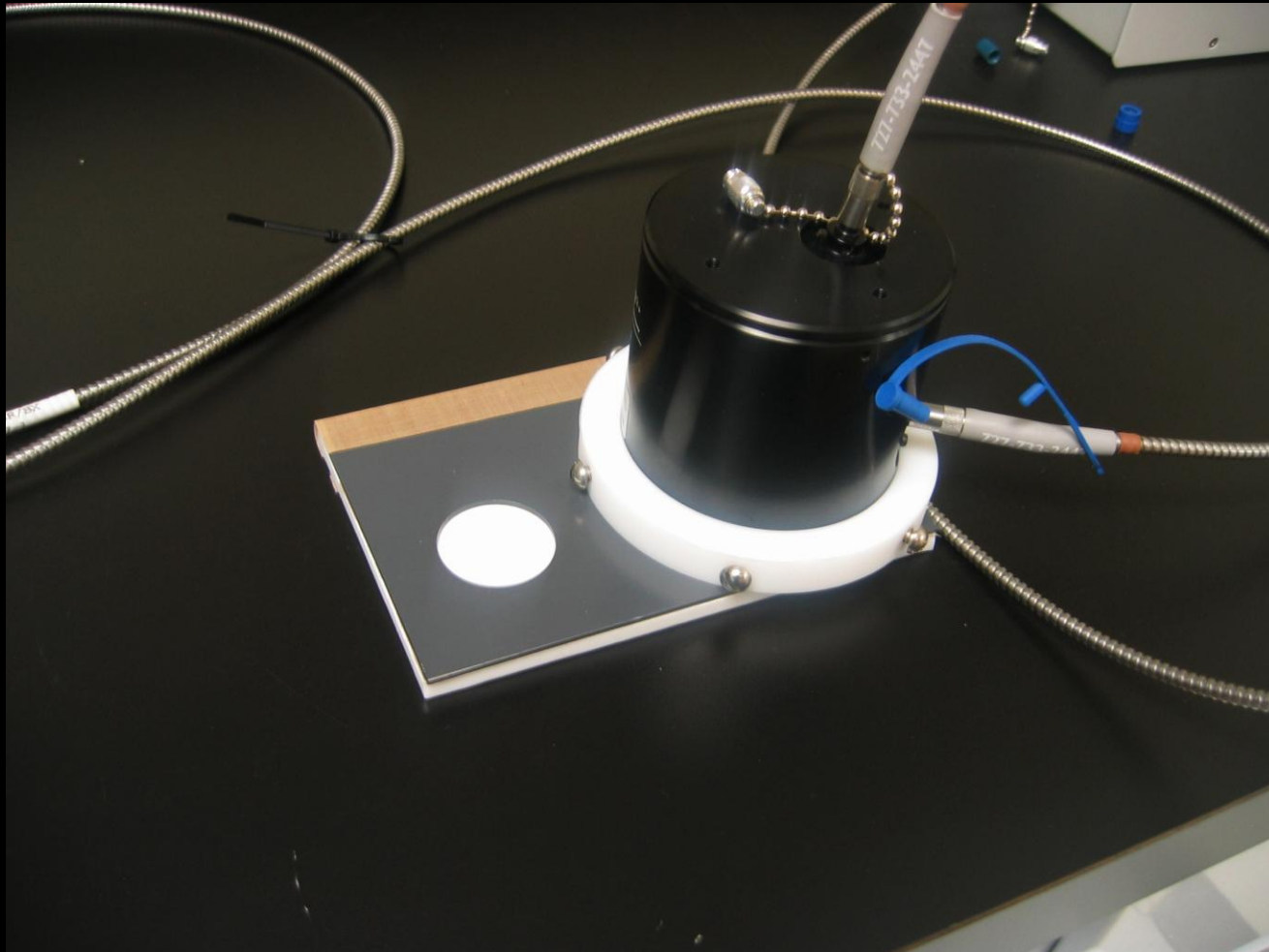




Personal air
monitoring
system for
Subway worker
study on steel
dust.

Collaboration of
Tom Protus
(pump, muffler)
and Instrument
Shop (power
supply)

Modifications to integrating sphere and sample holder for optical measurements on filters



Equipment for Pilot in Beijing China



Nafion diffusion drier and inlet



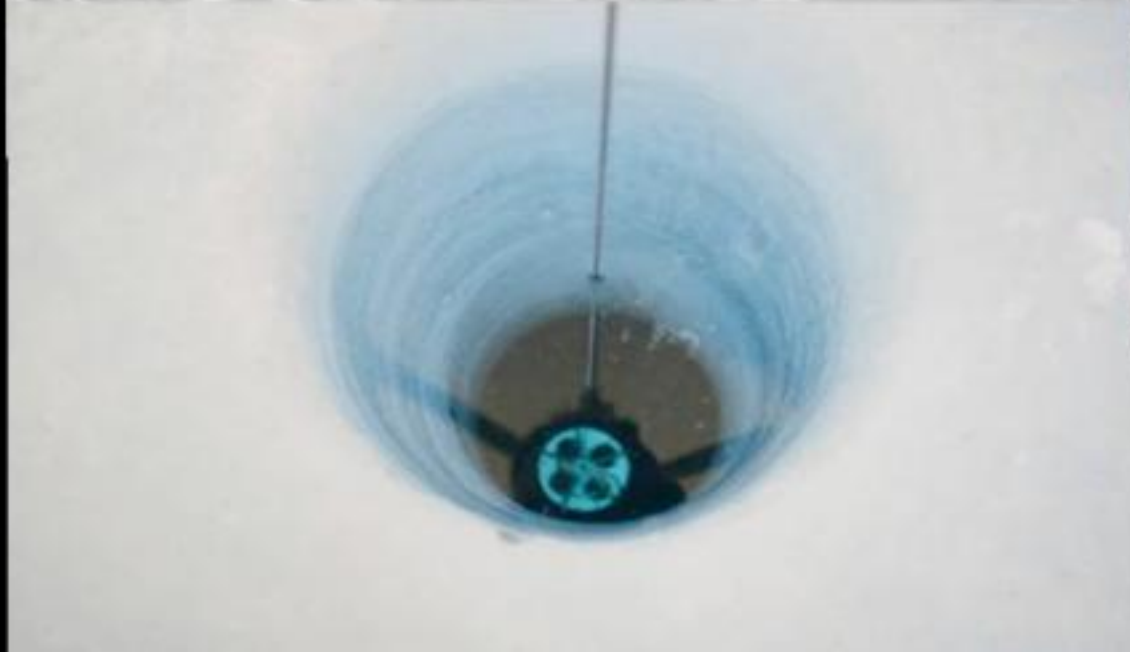
Iceland CO₂ sequestration project



LDEO's Texas Ranger collecting ground water samples for He-3 Tritium Dating



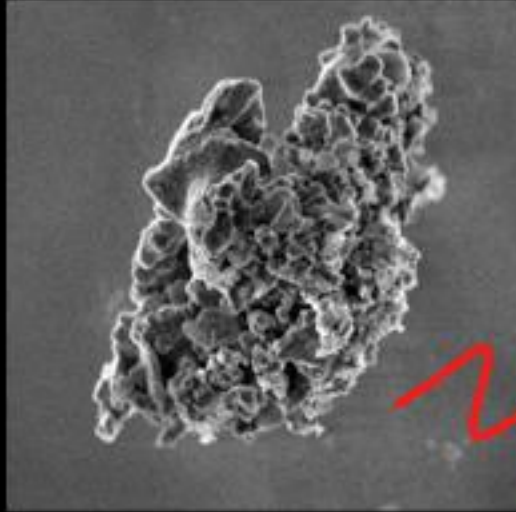
Sampling in The Arctic



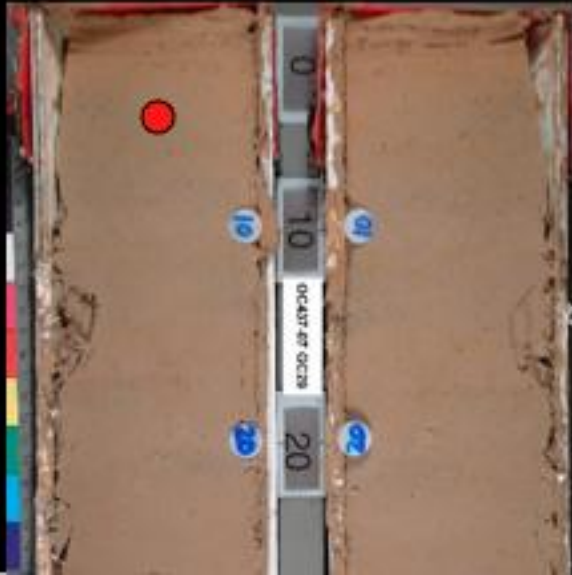
Sampling Groundwater



From space to the Earth surface



From the sampling site to the analysis





[illegible]