Headspace analysis of discrete samples

Development of a cool trap system

Cool Trap

- Reduction of the water vapor content (m/z=18) which is affecting the CH₄ analysis (m/z=15)
- Power consumption
- More technique, electronics and process control

Result:
- Reduction of the detection limit for CH₄ from ~100nM CH₄ to ~16 nM

2. Comparison Inspector 200
Lake Constance, March 08

Step towards to a more detailed temporal variations of methane in aquatic...