

News from CPPM radon chambre

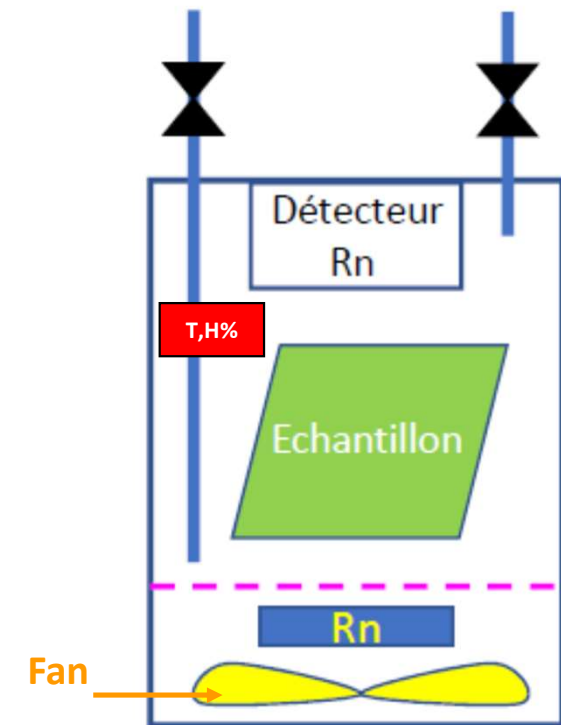
Jose Busto

CPPM / Univ. Aix-Marseille

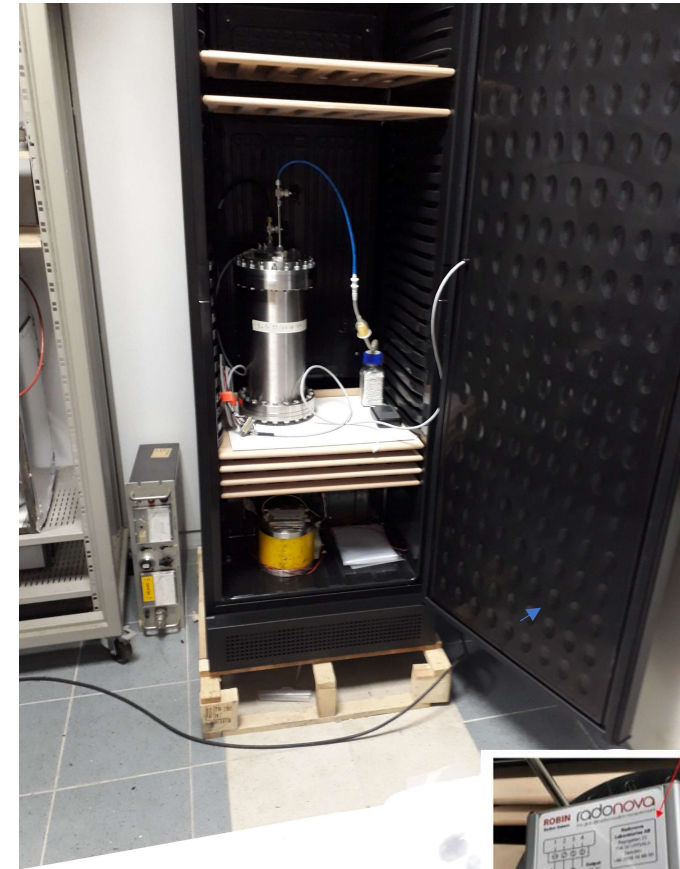
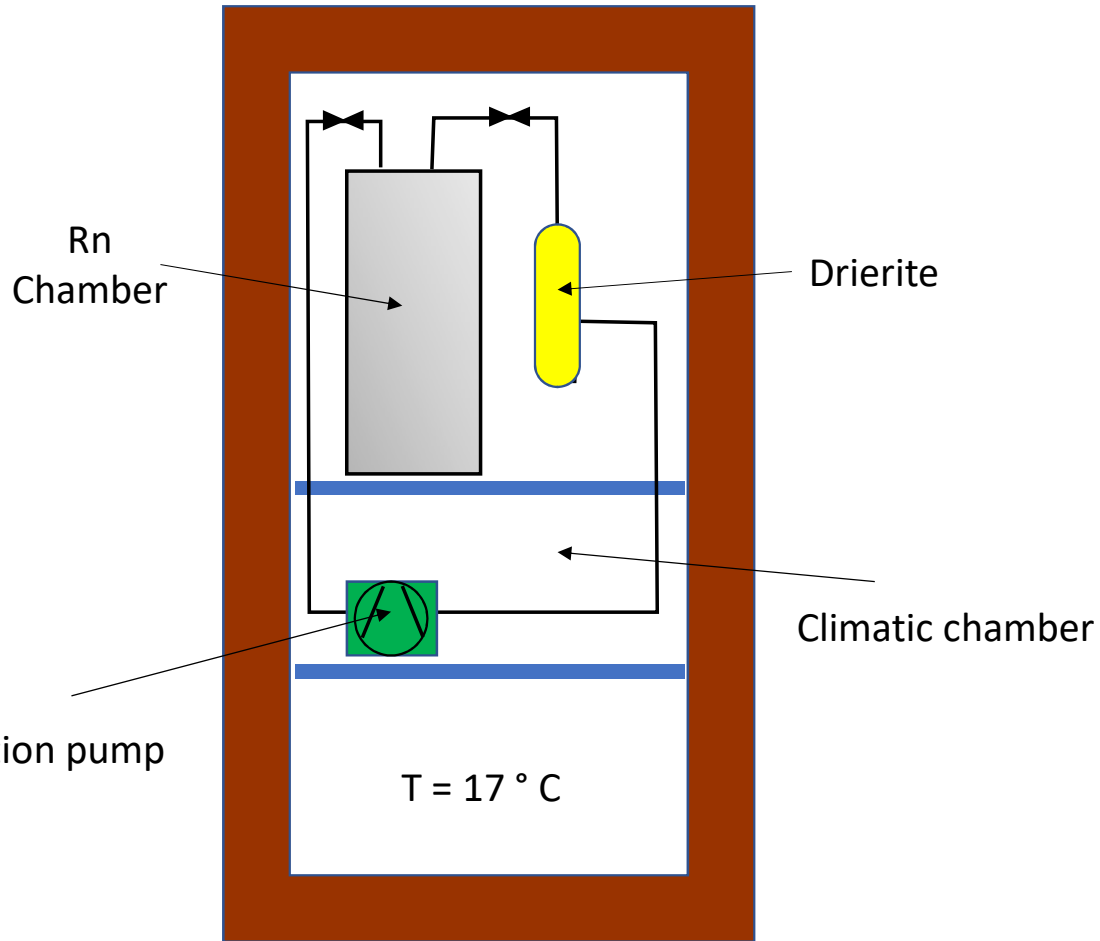
Radon Chamber

In order to study radon shielding from the plastic bag, we build a radon chamber with a high level of radon concentration, temperature and humidity controlled.

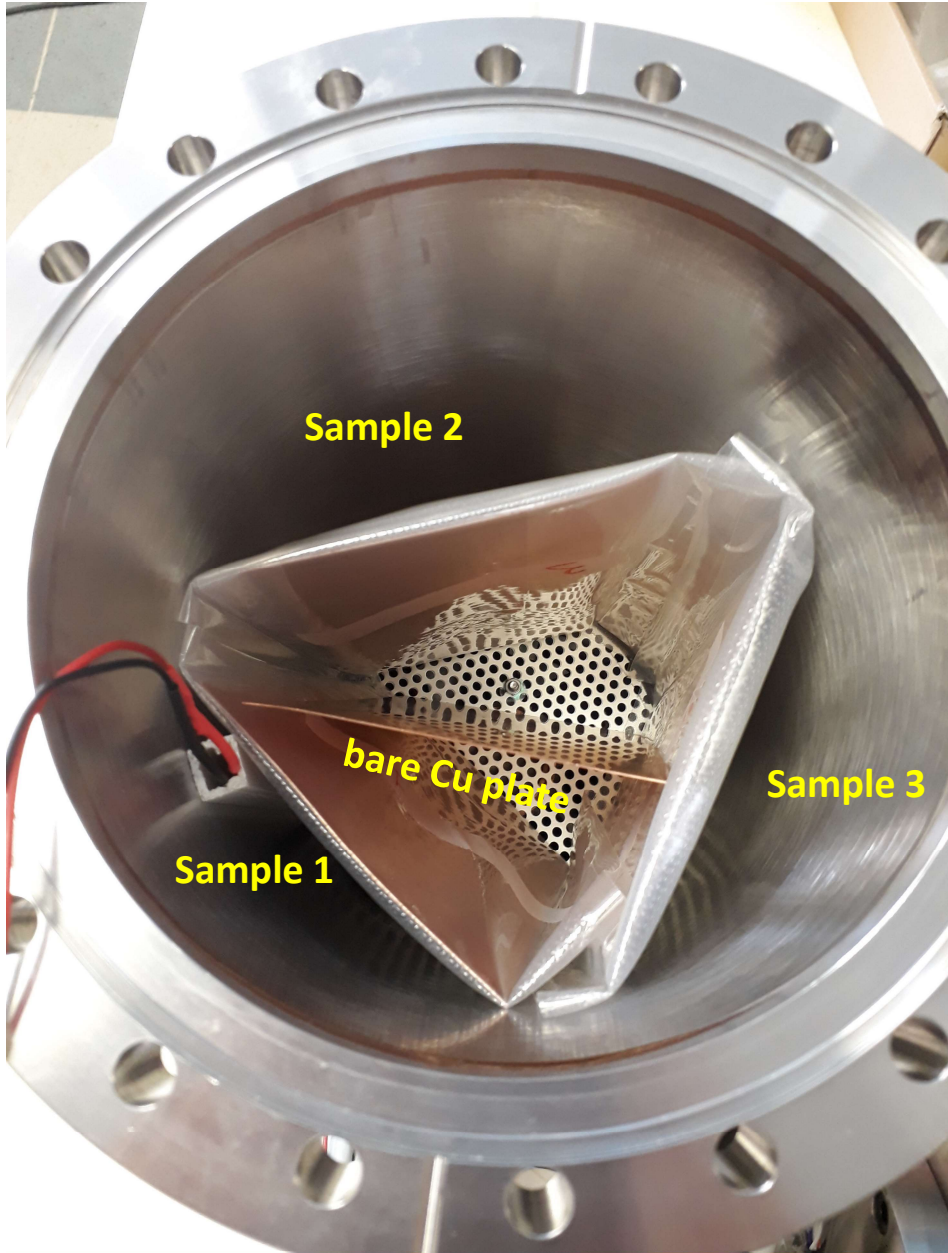
- Stainless steel vessel : 10.5 L
- Top chamber : sample place (9 L)
 - : continuous Rn measurement
 - : continuous temperature and humidity measurement
- Bottom chamber : Rn source
 - : fan -> air homogenization



Radon chamber in the climatic chamber



Rn detector

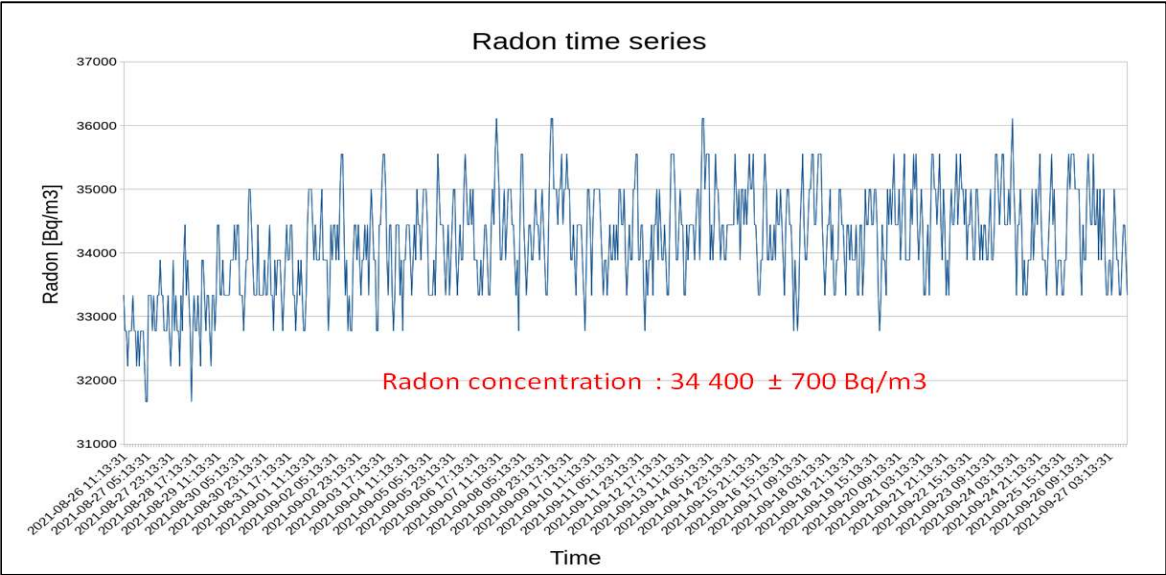
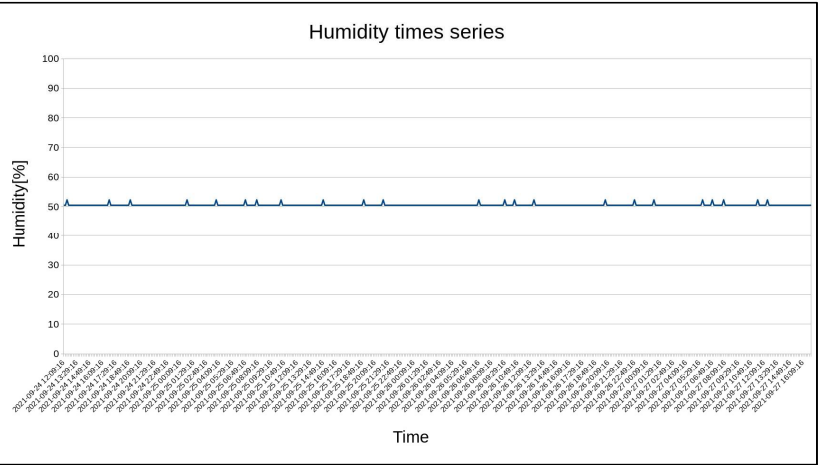
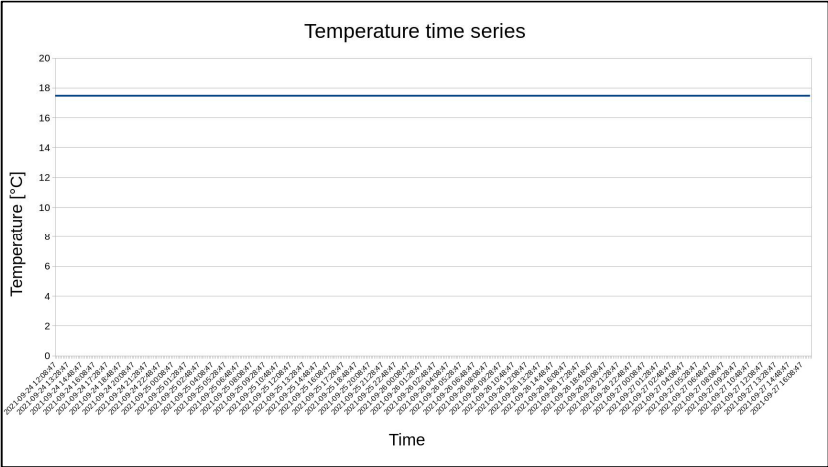


End of July we received 4 Cu plates

- Sample 1 : Cu plate in a single bag
- Sample 2 : Cu plate in a double bag
- Sample 3 : Cu plate in a triple bag
- Sample 4 : Cu plate in a aluminised mylar bag to be used as reference bare plate

The chamber was filled with air and closed on August 11

- temperature in side is 17.5 °C
- relative humidity is 50 %
- radon concentration is $34\,400 \pm 700 \text{ Bq/m}^3$



Conclusion

Cooper plates are radonized since 2 month @ 34 kBq/m³ and ready to be sent back.

Radon time series

