

Environmental parameters monitoring in the oldest show cave of Italy: Bossea Cave

*Original*

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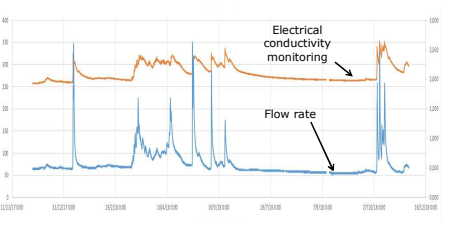
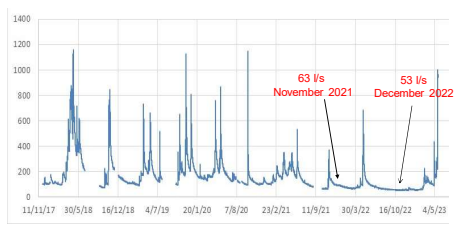
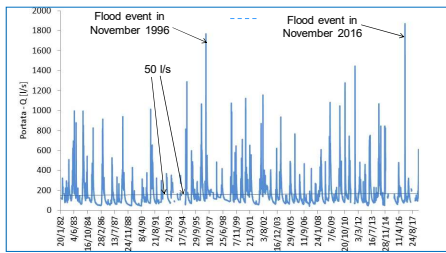
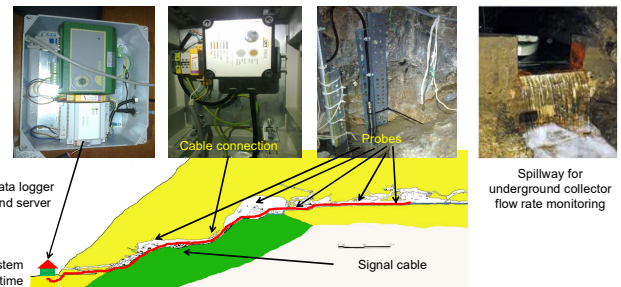
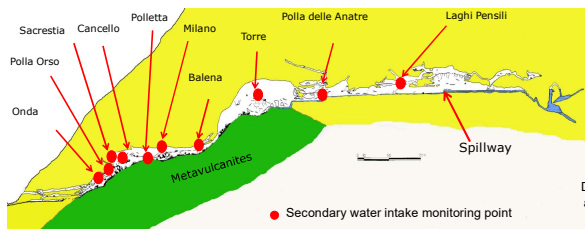
Balestra Valentina<sup>1,2\*</sup>, Fiorucci Adriano<sup>1,2</sup>, Peano Guido<sup>2</sup>, Villavecchia Ezechiele<sup>2</sup>, Agnesod Giovanni<sup>2</sup>, Ragani Massimo Faure<sup>3</sup>, Vigna Bartolomeo<sup>1,2</sup>

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Three underground karst laboratories are present in Bossea cave for environmental parameters monitoring:

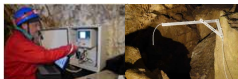
## 1 - Bossea Karst Hydrogeology Lab: water flow, temperature and electrical conductivity monitoring

Bossea cave is located in Frabosa Soprana municipality, Piedmont, Italy. It is the first Italian show cave, opened to the public in 1874.

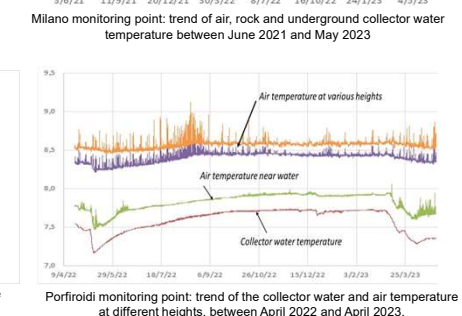
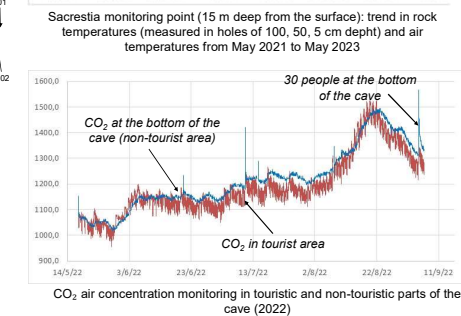
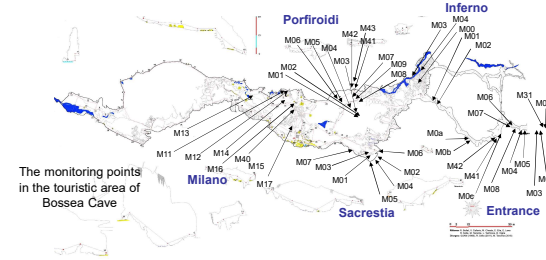
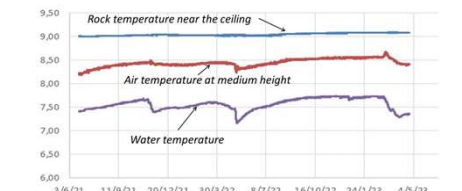
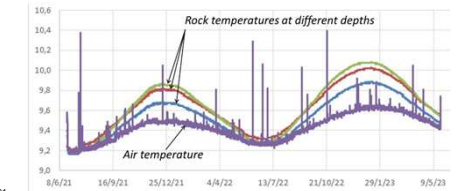


## 2 - «Giovanni Badino» Climatological Research Center of Bossea Cave: air-rock-water temperature and CO<sub>2</sub> concentration monitoring

Data loggers are housed in boxes to be protected from air humidity



Probe for air temperature monitoring



CO<sub>2</sub> air concentration data logger



CO<sub>2</sub> air concentration probe

## 3 - Underground Karst Laboratory of Bossea (S.O. Bossea CAI): air-water-rock radon concentration monitoring

