



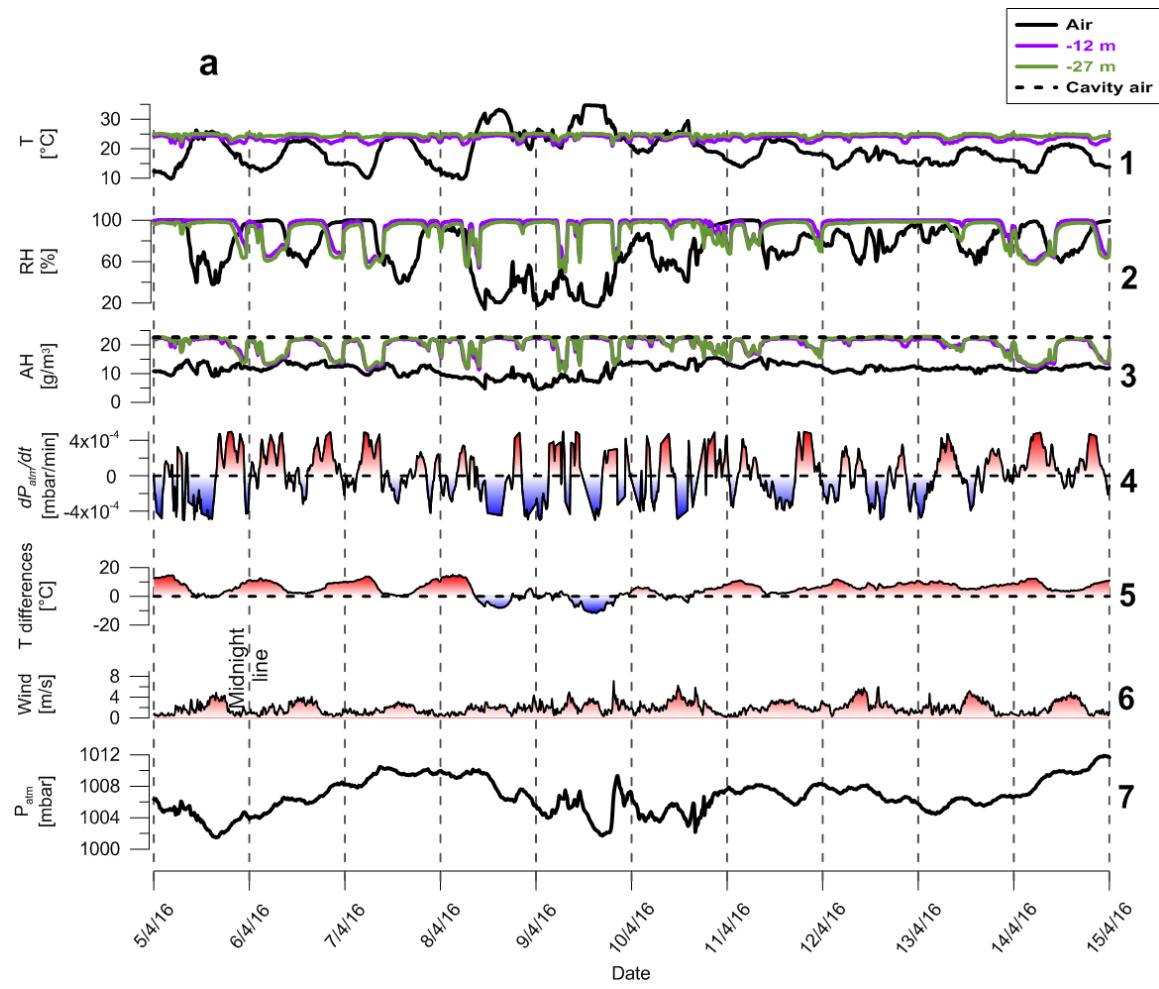
Supplement of

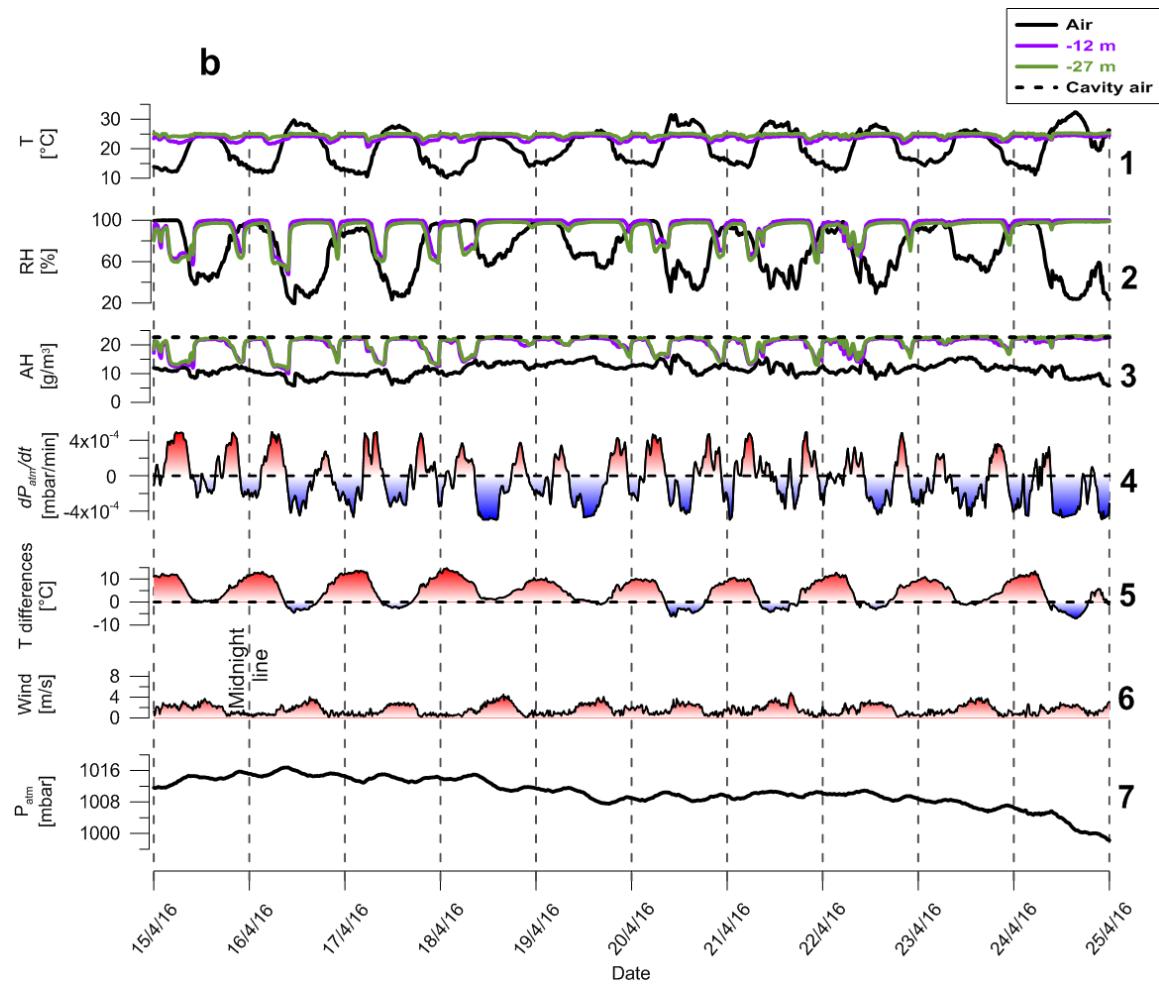
Pipes to Earth's subsurface: the role of atmospheric conditions in controlling air transport through boreholes and shafts

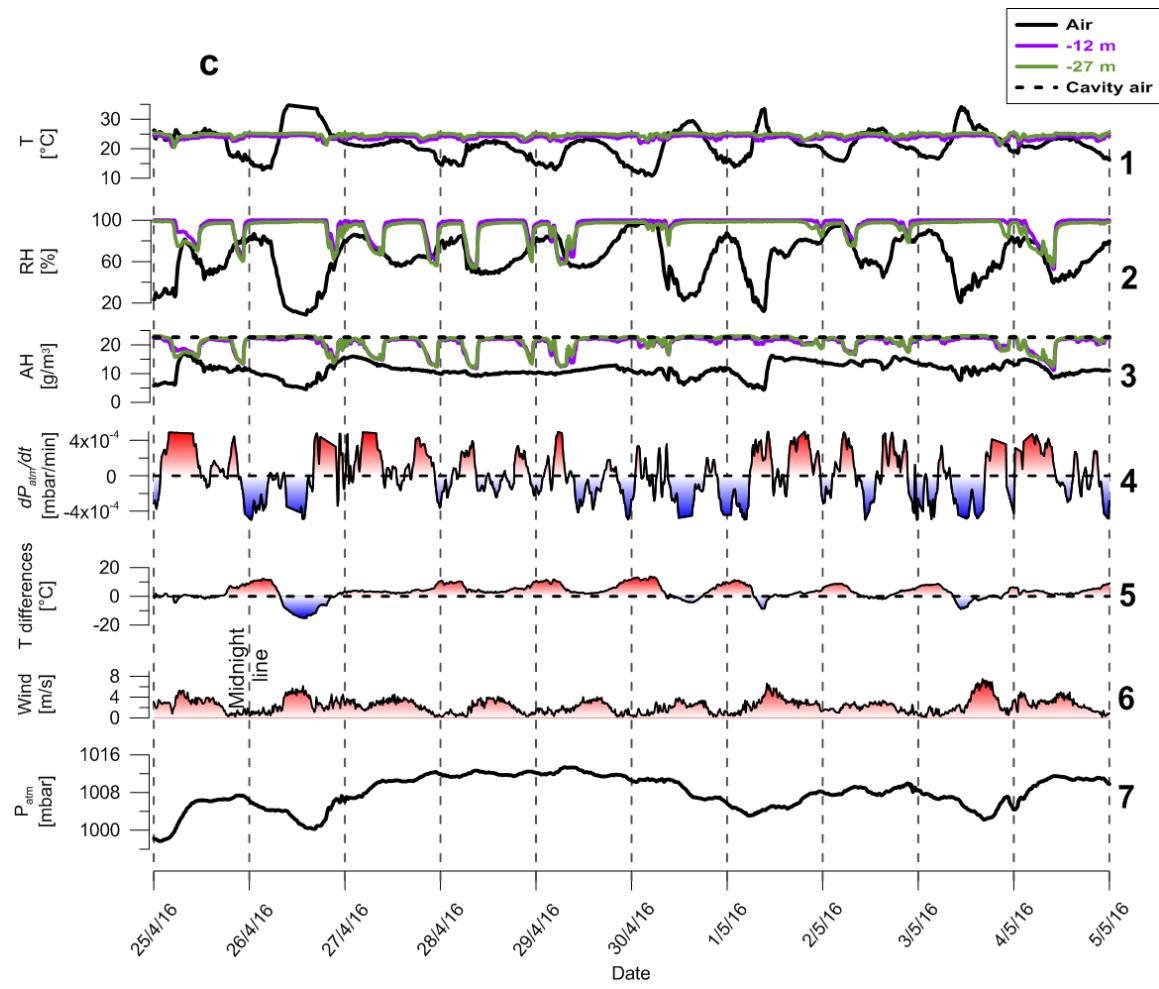
Elad Levintal et al.

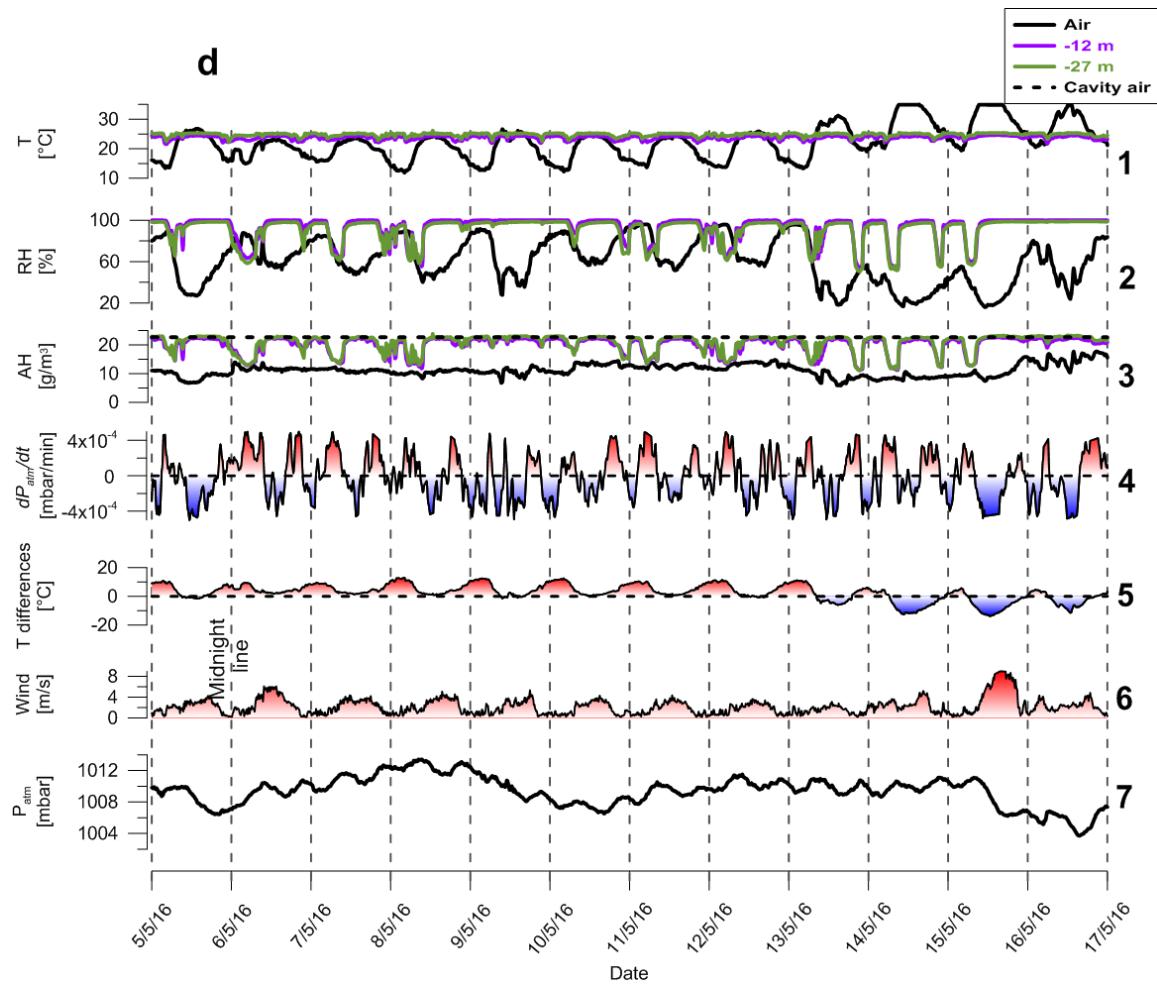
Correspondence to: Noam Weisbrod (weisbrod@bgu.ac.il)

The copyright of individual parts of the supplement might differ from the CC BY 4.0 License.









5 **Figure. S1. Time series results from the full 42-day *shaft* observations. Absolute humidity (AH) values were**

24.7 °C and RH = 100 %. T differences values (5) represent the temperature differences between the sensor at 12

3 m depth and the sensor above ground.

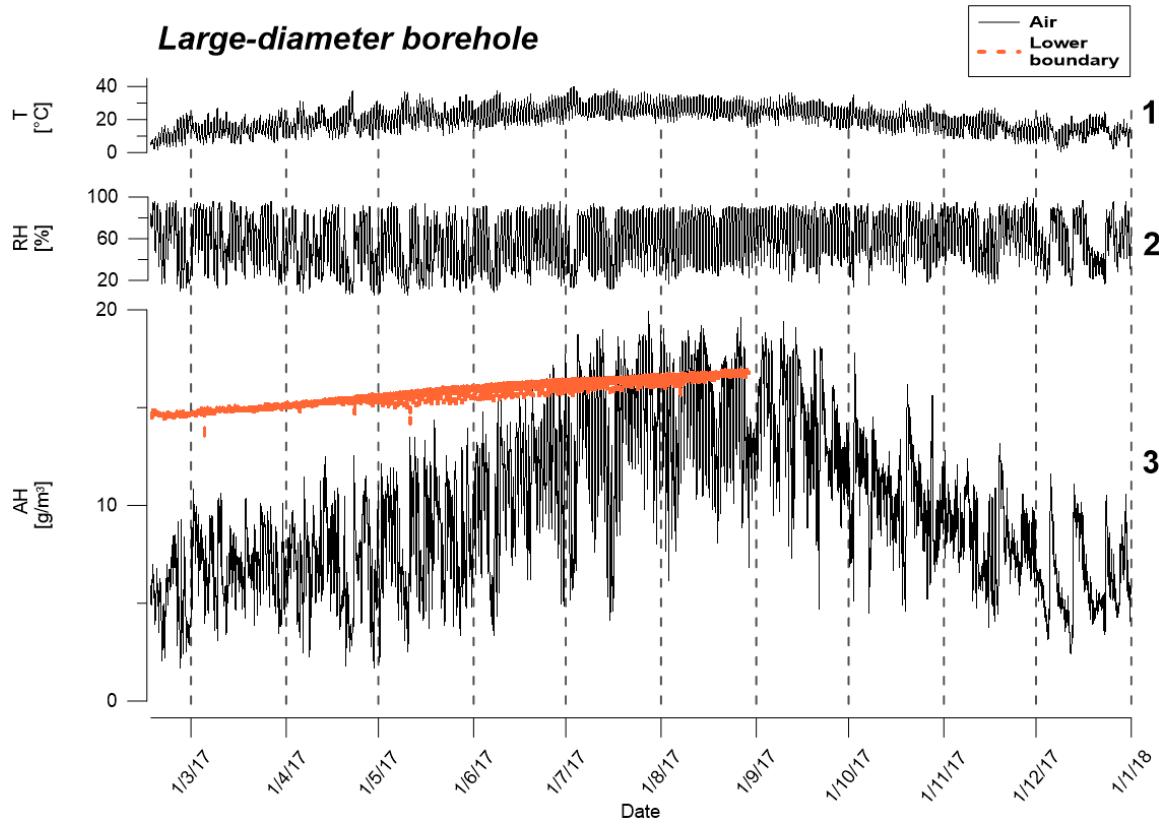


Figure. S2. Seasonal time series results of absolute humidity (AH) from the *large-diameter borehole*. From mid-February to the end of June, the use of AH as a proxy for airflow direction was valid due to the differences of AH between the borehole's lower boundary and the atmosphere. Between July and August (summer season), the AH differences were no longer constant (see also Fig. S3), and therefore we can conclude that AH was no longer a suitable proxy for the identification of airflow directions within the borehole. AH data for the borehole are missing from September until December; however, it is reasonable to assume that during that period, the AH as a proxy was also relevant because AH within the borehole was stable.

5
10

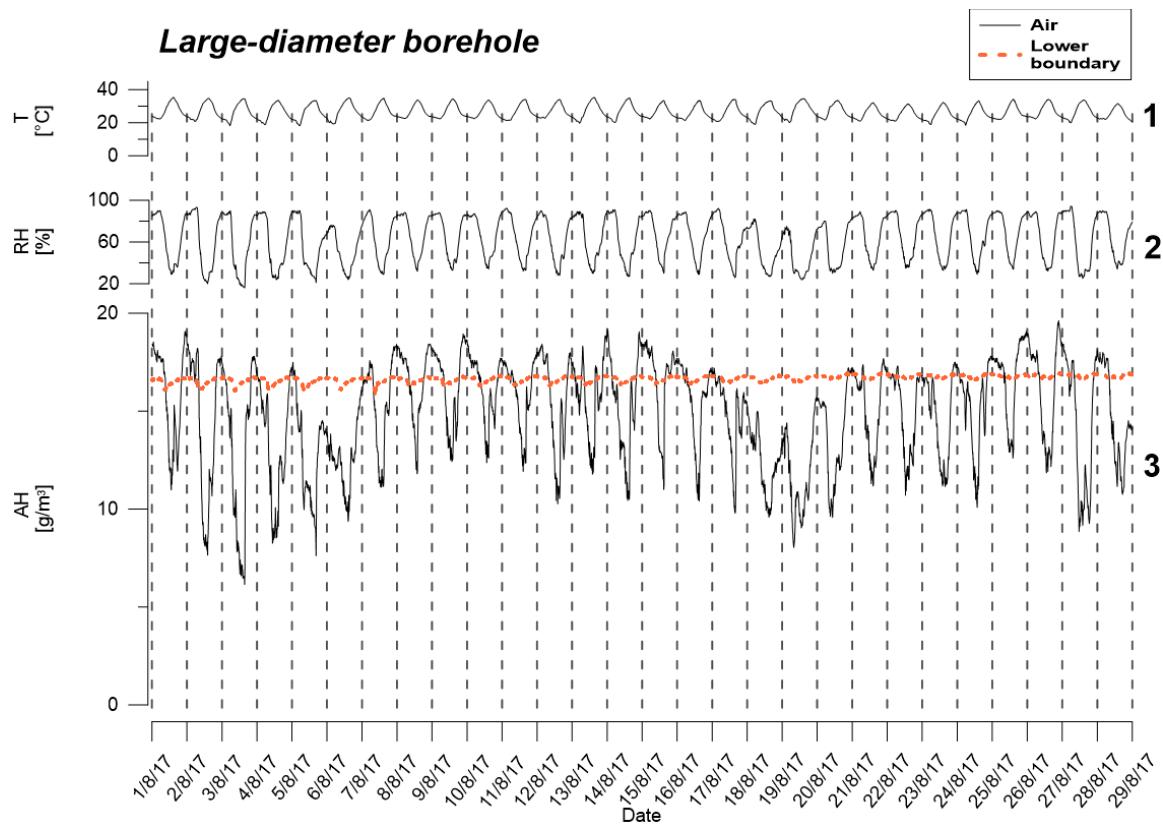


Figure. S3. August time series results of absolute humidity (AH) from the *large-diameter borehole*.