

Supplementary Materials

Figure S1. Average daily temperature trends in the Sanctuary.

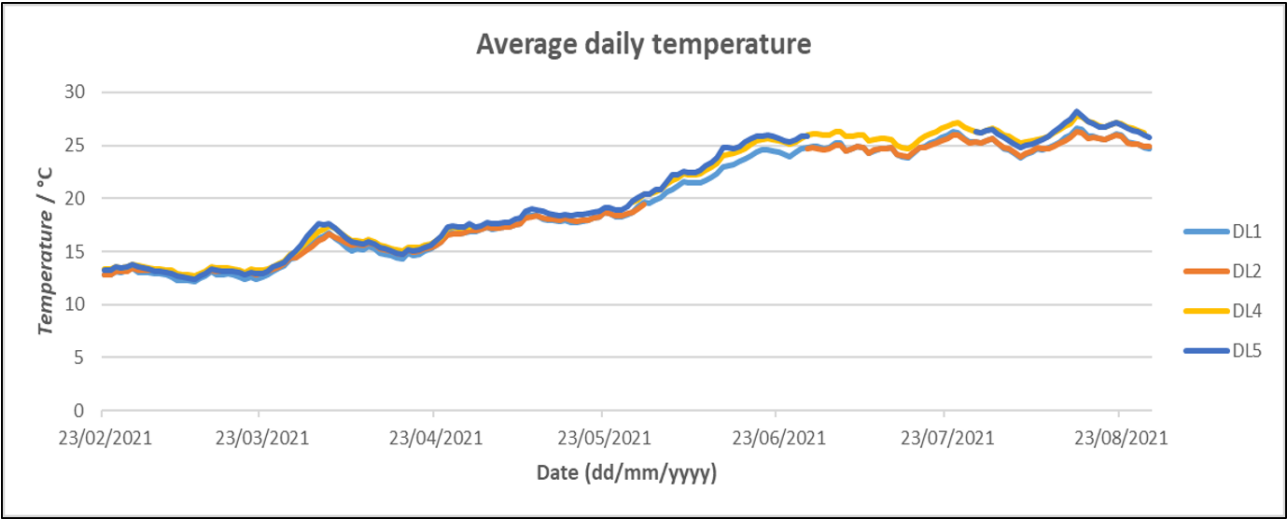


Figure S2. Average daily relative humidity trends in the Sanctuary.

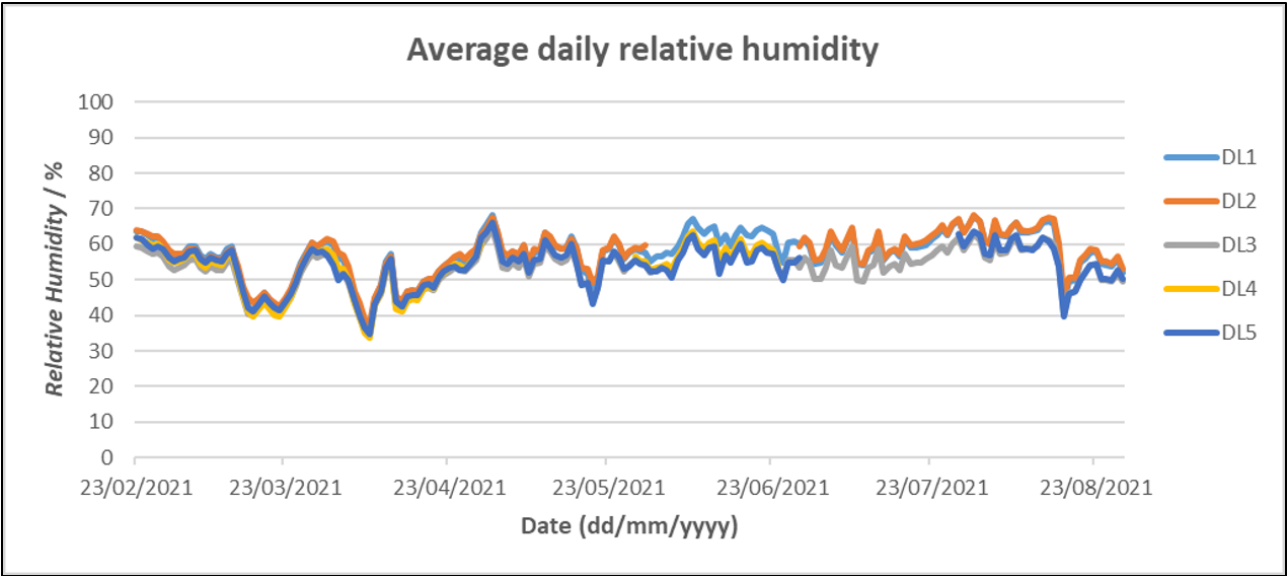


Figure S3. Particulate matter dimensional class distribution for the sampling site *Deposition*. The ranges of the dimensional class are expressed in μm .

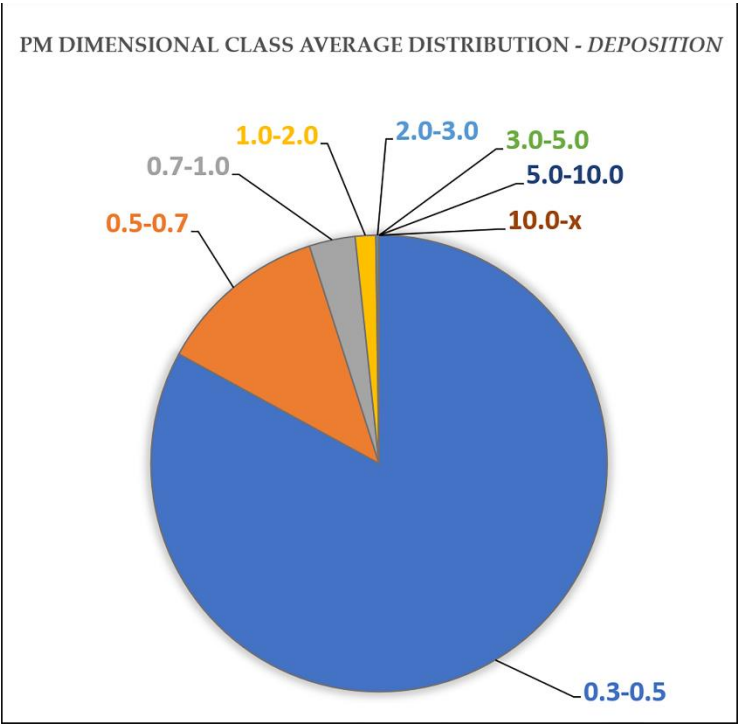


Figure S4. Particulate matter dimensional class distribution for the sampling site *Choir*. The ranges of the dimensional class are expressed in μm .

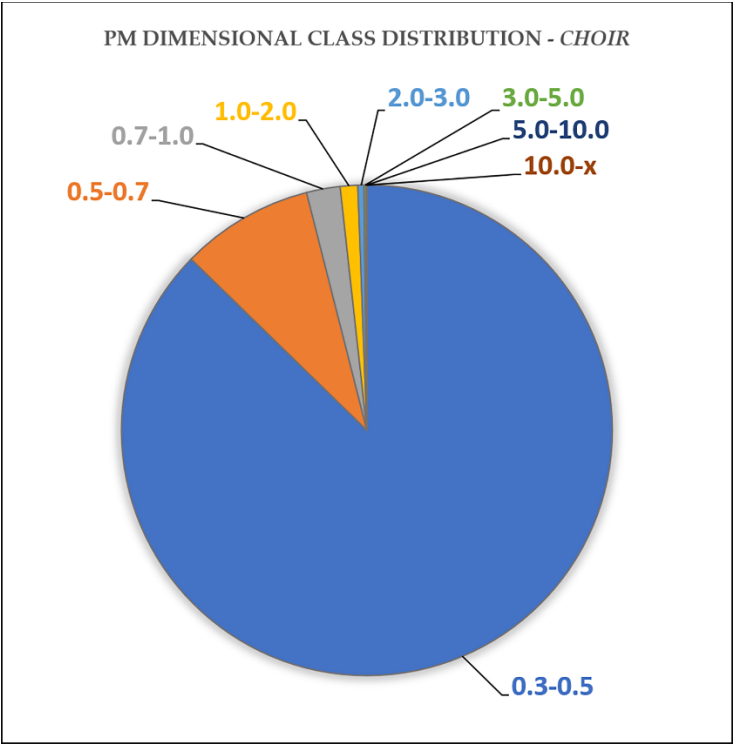


Table S1. PM10, PM2.5 and PM1 average daily concentrations for the sampling site *Last Supper*.

Date	PM10 concentration / $\mu\text{g m}^{-3}$	PM2.5 concentration / $\mu\text{g m}^{-3}$	PM1 concentration / $\mu\text{g m}^{-3}$
03/25/2021	20.4	18.1	16.7
03/26/2021	19.4	15.9	13.5
03/27/2021	15.1	13.9	12.5
03/28/2021	40.8	38.3	32.0
03/29/2021	17.2	15.7	14.1
03/30/2021	21.6	19.7	18.1
03/31/2021	41.0	38.9	34.7
04/01/2021	38.5	36.0	31.5
04/02/2021	66.6	63.4	56.3
04/03/2021	31.5	28.9	23.5
04/04/2021	40.3	38.4	33.0
04/05/2021	15.6	14.2	11.6
04/06/2021	5.4	2.8	1.8
04/07/2021	2.8	2.0	1.6
04/08/2021	13.1	11.7	9.8
04/09/2021	9.7	6.3	4.2
04/10/2021	7.8	5.0	3.6
04/11/2021	7.9	6.9	6.3
04/12/2021	3.6	3.0	2.8
04/13/2021	3.1	2.2	1.7
04/14/2021	5.3	4.5	3.9
04/15/2021	4.7	3.7	3.1
04/16/2021	8.5	5.6	4.1
04/17/2021	10.7	9.7	8.9
04/18/2021	17.6	16.4	15.6
04/19/2021	16.6	13.6	12.4
04/20/2021	12.4	11.6	10.9
04/21/2021	7.2	6.2	5.7
04/22/2021	9.2	8.5	7.9
04/23/2021	17.3	16.3	15.2
04/24/2021	20.8	19.2	17.2
04/25/2021	45.6	42.9	36.7
04/26/2021	35.9	34.3	31.0
04/27/2021	11.3	10.4	9.3
04/28/2021	17.6	16.9	16.0
04/29/2021	21.5	21.0	20.2
04/30/2021	8.4	6.5	5.3
05/01/2021	12.2	11.1	10.2
05/02/2021	41.0	39.2	37.1
05/03/2021	11.2	10.2	9.4
05/04/2021	6.7	5.9	5.1
05/05/2021	4.9	4.2	3.3
05/06/2021	22.1	21.1	17.5
05/07/2021	50.0	49.1	44.7
11/23/2021	12.6	11.1	12.1
11/28/2021	10.0	7.7	7.0

Table S2. PM10, PM2.5 and PM1 average daily concentrations for the sampling site *Choir*.

Date	PM10 concentration / $\mu\text{g m}^{-3}$	PM2.5 concentration / $\mu\text{g m}^{-3}$	PM1 concentration / $\mu\text{g m}^{-3}$
05/27/2021	5.2	4.0	3.0
05/28/2021	6.0	4.8	3.8
05/29/2021	10.8	9.5	7.5
05/30/2021	27.4	25.5	22.1
05/31/2021	16.1	15.0	13.6
06/01/2021	8.2	7.0	6.2
06/02/2021	8.3	7.3	6.7
06/03/2021	12.2	10.7	9.8
06/04/2021	8.3	6.9	6.1
06/05/2021	6.0	5.1	4.2
12/09/2021	27.1	25.9	23.7
12/12/2021	20.8	18.5	17.4