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- **A short term resilience evidences changes in flora/ fauna, uneven death toll and economic deacceleration – all happens due to lockdown policies**
- **Fine aerosol loadings largely dominated the major path ways correlating with the entire lock down period in different places/ Countires.**

Mostly changes observed were in:

**Carbon
monoxide**

Ozone

**Particulate
matter**

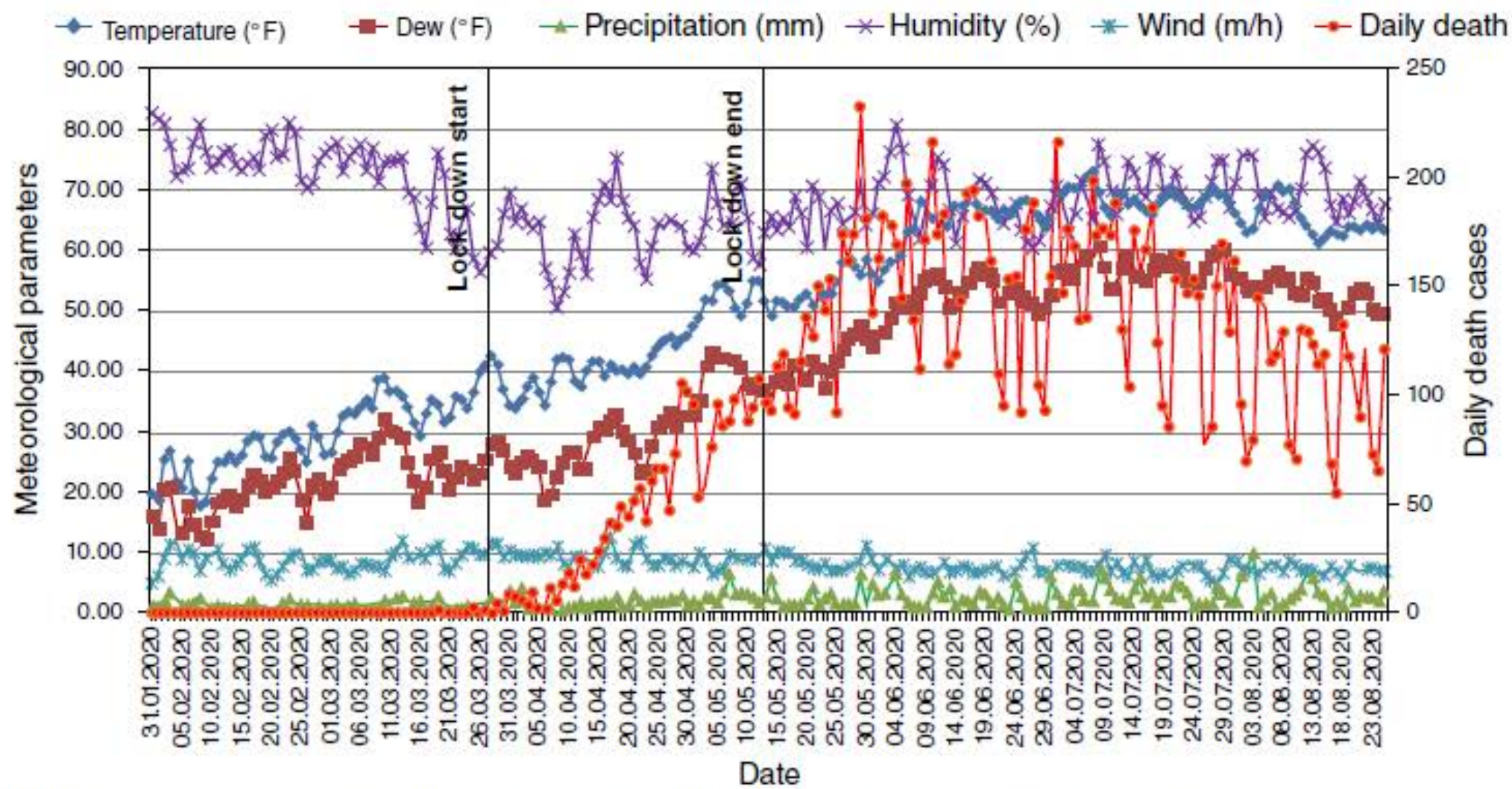
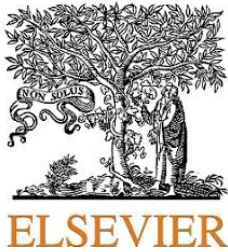


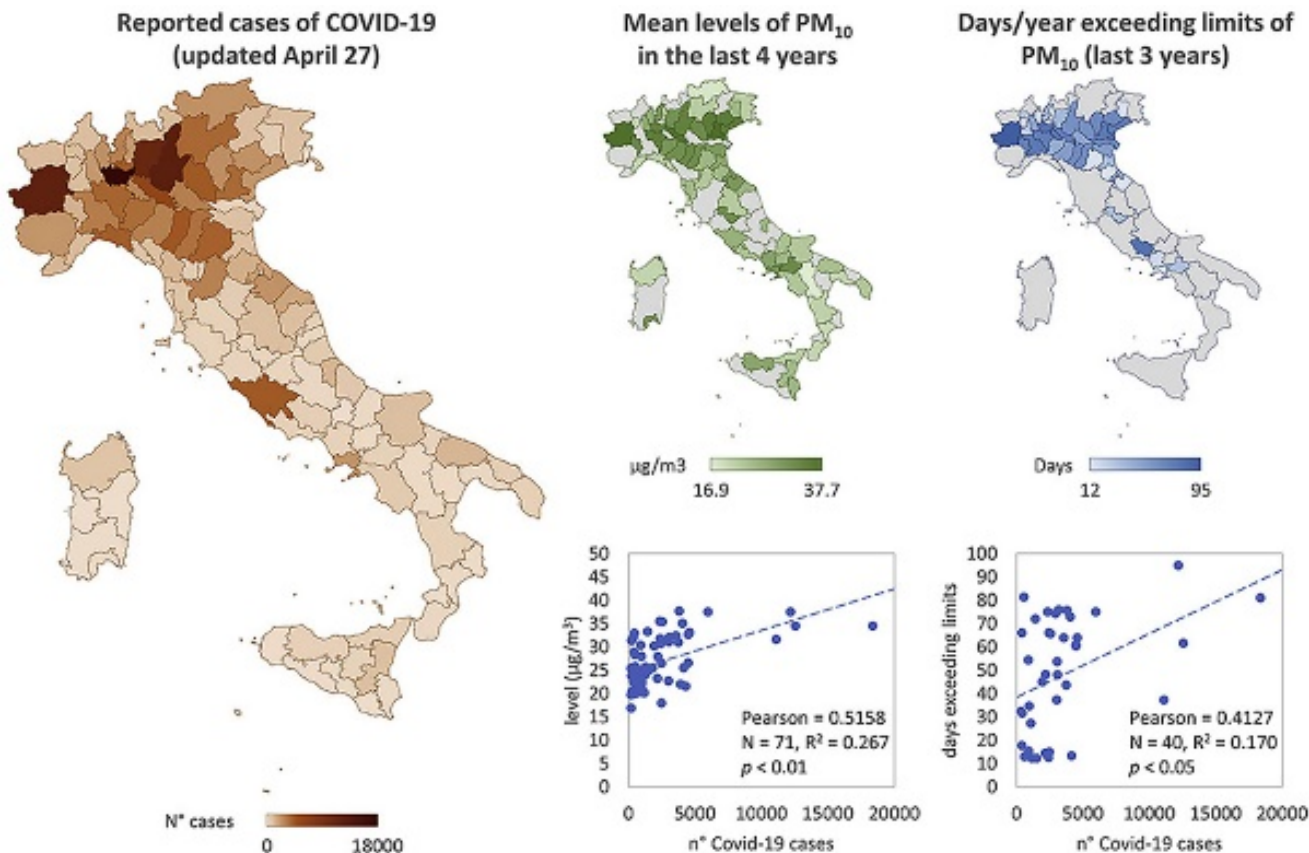
FIG. 18.3 Variation of meteorological parameters in relation with daily death rates during the study period.

Particulate Matter – The Italian Case

Role of the chronic air pollution levels in the Covid-19 outbreak risk in Italy



COVID-19



Highlights

- Covid-19 outbreak in Italy is exhibiting a clear regional trend
- Long-term air-quality data correlate with Covid-19 in the Italian provinces
- Chronic atmospheric pollution may favour coronavirus spreading
- Environmental pollution should be considered in epidemics prevention

Some of the chapters in Theme - 3

Air quality: Monitoring, fate, transport, and drivers of socio-environmental change

- Air quality Index and criteria pollutants in ambient atmosphere over selected sites: Impact and lessons to learn from COVID 19.
- Study of the Aerosol Parameters and radiative forcing during COVID-19 pandemic over Srinagar Garhwal Uttarakhand
- A safe and effective sample collection method for assessment of SARS-CoV-2 in aerosol samples
- Meteorological parameters and COVID-19 spread- Russia a case study
- Effects of Tropospheric Ozone and Sulphur dioxide Concentration on COVID-19 Mortality in Punjab (India)
- Short-Term Resilience and Transformation of Urban Socio-environmental Systems to COVID-19 Lockdowns in India using Air Quality as Proxy
- Covid-19 Pandemic- Changes in the context of Global Environment and Lessons Learned

Future focus on indoor airquality is needed:

- VOCs
- Biological pollutants
- Combustion related products
- Cigarette smoke
- Radioactive radon gas studies