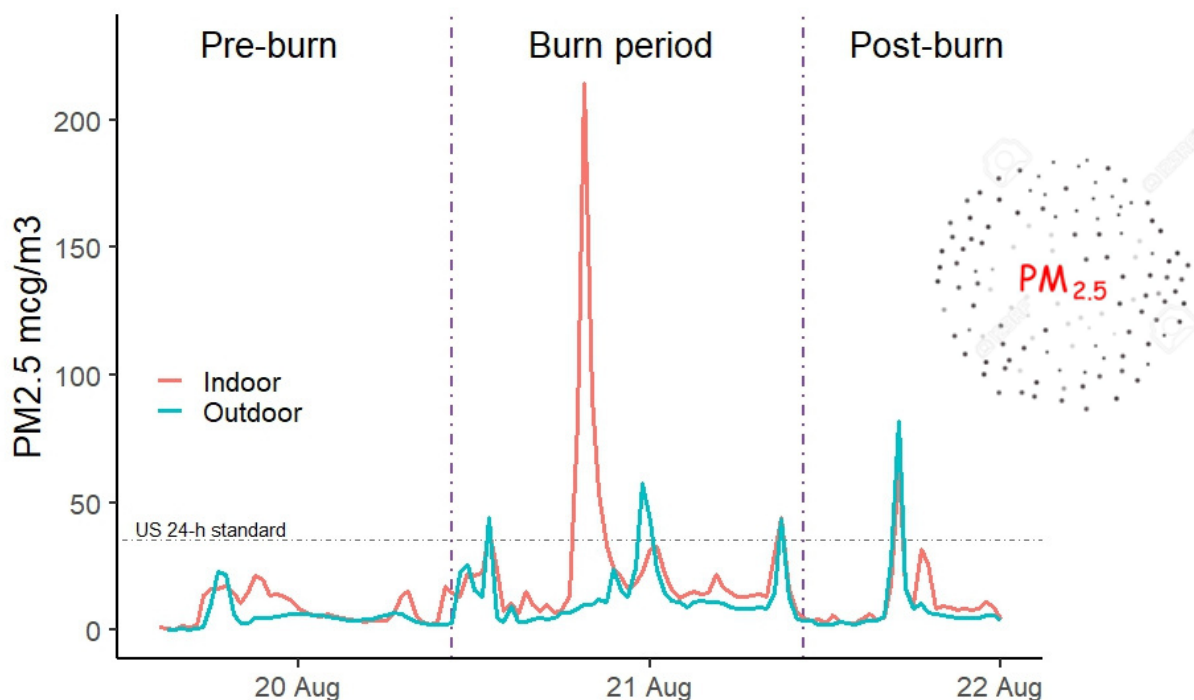


## &gt;&gt;&gt; PRESCRIBED BURNS STUDY &lt;&lt;&lt;

## NEWSLETTER

August 21st, 2023 / Vol 3



## PILOT RESULT

Air quality is often measured by PM2.5 (particulate matter size smaller than 2.5 micrometers). These particles are harmful as they can penetrate deep into the respiratory system causing cough, exacerbate asthma and reduce lung function.

## &gt;&gt;&gt; POOR INDOOR QUALITY

Based on our result, the highest indoor levels of PM2.5 occurred on the day of the burn, with a second peak two days after. Indoor air quality was shown to be poorer than outdoor air for the entire monitoring period, except for the final day. This suggests participants were more likely to be exposed to the bushfire smoke inside their homes compared to their backyards.

## PUBLICATION &lt;&lt;&lt;

We have been invited to publish our pilot data in the American Journal of Respiratory and Critical Care Medicine! Our paper is close to completion and we're aiming to have it published by the end of this year.

**JOURNAL  
PUBLICATION**



# 2023 BUSHFIRES

## >>> ALL OVER THE WORLD

Several devastating bushfire tragedies have transpired worldwide in this year alone. The Northern Hemisphere has experienced significant impacts this season, with intense and uncontrollable fires occurring in Canada, Greece and recently, Hawaii. Whether these bushfires were ignited by lightning, intentional land-clearing or human-caused accidents, these bushfires are burning for longer duration and occurring more frequently as global temperature reach unprecedented heights.



## EL NINO

El Nino is a climate pattern that can be described as warmer temperature than average on the sea surface in the eastern tropical Pacific Ocean. In Australia, El Nino events are associated with drier and hotter weather. This condition occurs on average every 2-7 years.

## >>> BE PREPARED FOR SUMMER

Australian Bureau of Meteorology has issued an alert for an El Nino event in the coming months. Australia is currently experiencing one of the warmest July, and it is expected that the heat will continue to intensify, possibly recording the world's hottest summer in 2024. Experts are predicting huge bushfires in the coming summer all over Australia. Click here to read more about [Hawaii bushfire tragedy and what it means for Australia](#).

## >>> WHAT NOW?

The increased frequency and intensity of bushfires highlight the importance of our study to continue understand the impacts of bushfire/planned burn smoke in homes. Thank you for those who have taken part/registered in our study. We are planning to undertake more data collection in the next few months. Please share our study and contact details to anyone whom you think are interested and may benefit from this study.

