The Impact of Movement Control Order (MCO) during Pandemic COVID-19 on Local Air Quality in an Urban Area of Klang Valley, Malaysia

Mohd Shahrul Mohd Nadzir¹, Maggie Chel Gee Ooi², Kemal Maulana Alhasa³, Mohd Aftar Abu Bakar⁴, Anis Asma Ahmad Mohtari⁵, Mohd Fadzil Firdzaus Mohd Nor⁶, Mohd Talib Latifi⁷, Haris Hafizal Abd Hamidi⁸, Sawal Hamid Md Ali⁹, Noratiqah Mohd Arif'i⁹, Johary Anuar⁹†, Fatimah Ahamadi⁴, Azliyana Azhari¹, Norfazrin Mohd Hanifi¹, Mohammed Ahmed Subhi², Murnira Othman³, Mohd Zaim Mohd Nor⁹

¹ Department of Earth Sciences and Environment, Faculty of Science and Technology, Universiti Kebangsaan Malaysia, Bangi 43600, Selangor, Malaysia  
² Institute of Climate Change, Earth Observatory Center, Universiti Kebangsaan Malaysia, Bangi 43600, Selangor, Malaysia  
³ Institute of Climate Change, Space Science Centre (ANGKASA), Universiti Kebangsaan Malaysia, Bangi 43600, Selangor, Malaysia  
⁴ Institute of Climate Change, Centre for Tropical System and Climate Change (IKLIM), Universiti Kebangsaan Malaysia, Bangi 43600, Selangor, Malaysia  
⁵ Department of Mathematical Sciences, Faculty of Science and Technology, Universiti Kebangsaan Malaysia, 43600, Bangi, Selangor, Malaysia  
⁶ Institute of Ocean and Earth Sciences, IAS Building, University of Malaya, 50603, Kuala Lumpur, Malaysia  
⁷ Department of Electrical, Electronic and Systems Engineering, Faculty of Engineering and Built Environment, Universiti Kebangsaan Malaysia, Bangi 43600, Selangor, Malaysia  
⁸ Institute for Environmental and Development (LESTARI), Universiti Kebangsaan Malaysia, Bangi 43600, Selangor, Malaysia  
⁹ Petaling Jaya City Council, Jalan Yong Shook Lin, 46675 Petaling Jaya, Selangor Darul Ehsan, Malaysia  

INTRODUCTION

The World Health Organization (WHO) declared the COVID-19 outbreak as a pandemic on 11th March 2020 (WHO, 2016, 2020). In many countries, including Malaysia, a pandemic action plan has been announced by authorities.