1 Supplementary Information

2 Sand mining far outpaces natural supply in a large alluvial river

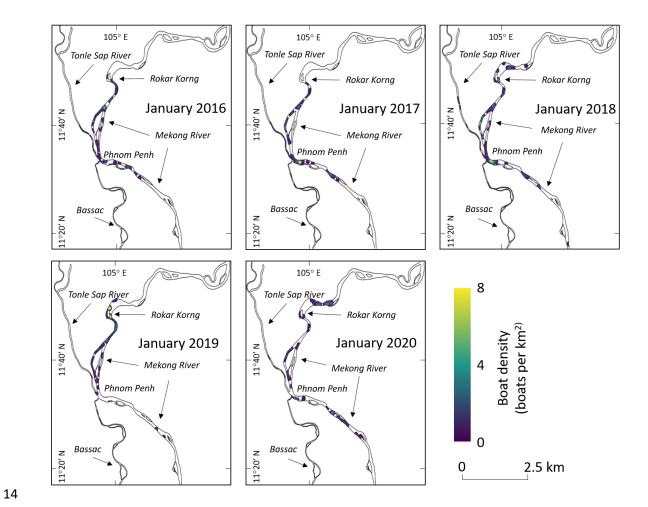
4 Christopher R. Hackney, School of Geography, Politics and Sociology, Newcastle University, Newcastle upon

5 Tyne, UK, NE1 7RU*

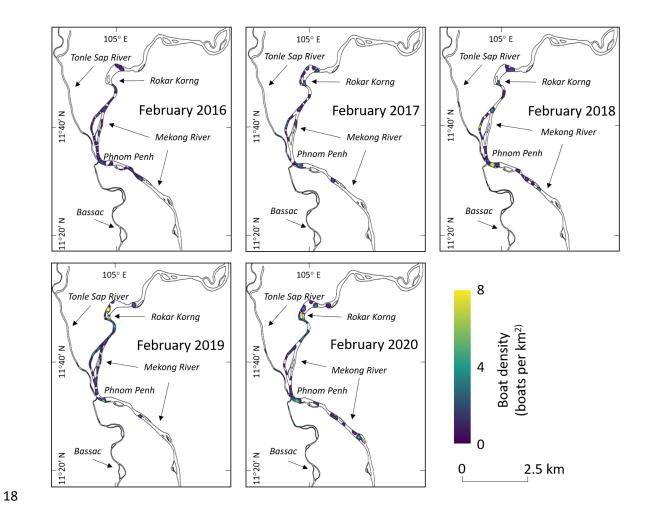
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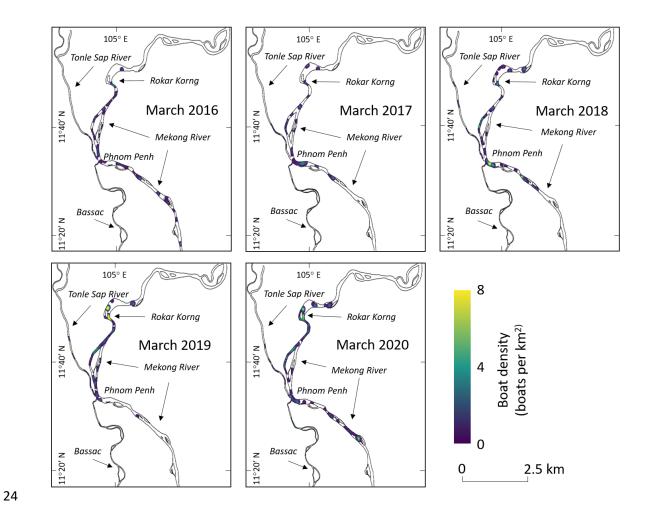
- 6 Grigorios Vasilopoulos, Energy and Environment Institute, University of Hull, Hull, UK, HU6 7RX
- 7 Sokchhay Heng, Institute of Technology of Cambodia, Phnom Penh, Cambodia
- 8 Vasudha Darbari, Energy and Environment Institute, University of Hull, Hull, UK, HU6 7RX
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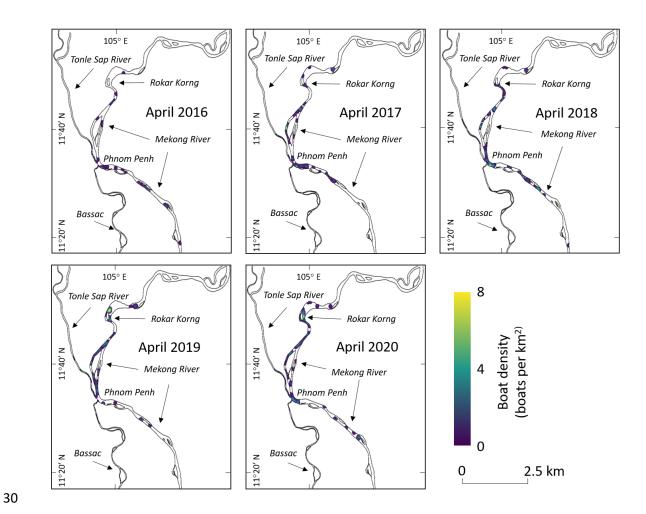
SI Figure 1: Annual heat maps for January for the period 2016 - 2020 of the Mekong River around Phnom Penh showing the locations of mining activity and the density of boats (boats per km²) showing changes in the spatial distribution of mining activity over the five year period.



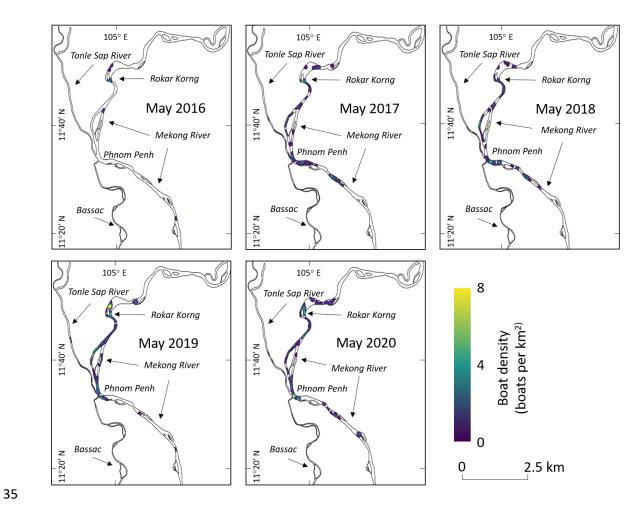
SI Figure 2: Annual heat maps for February for the period 2016 - 2020 of the Mekong River around Phnom Penh showing the locations of mining activity and the density of boats (boats per km²) showing changes in the spatial distribution of mining activity over the five year period.



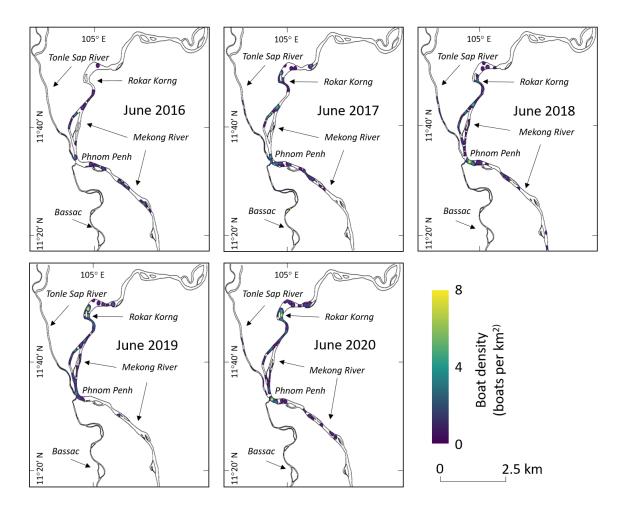
SI Figure 3: Annual heat maps for March for the period 2016 - 2020 of the Mekong River around Phnom Penh showing the locations of mining activity and the density of boats (boats per km²) showing changes in the spatial distribution of mining activity over the five year period.



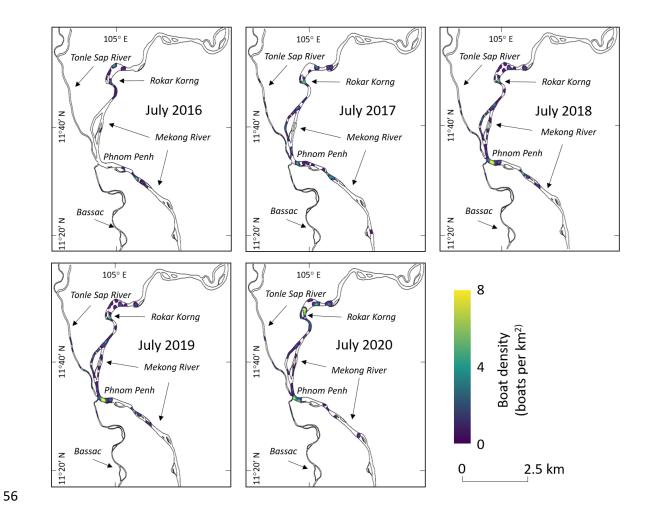
SI Figure 4: Annual heat maps for April for the period 2016 - 2020 of the Mekong River around Phnom Penh showing the locations of mining activity and the density of boats (boats per km²) showing changes in the spatial distribution of mining activity over the five year period.



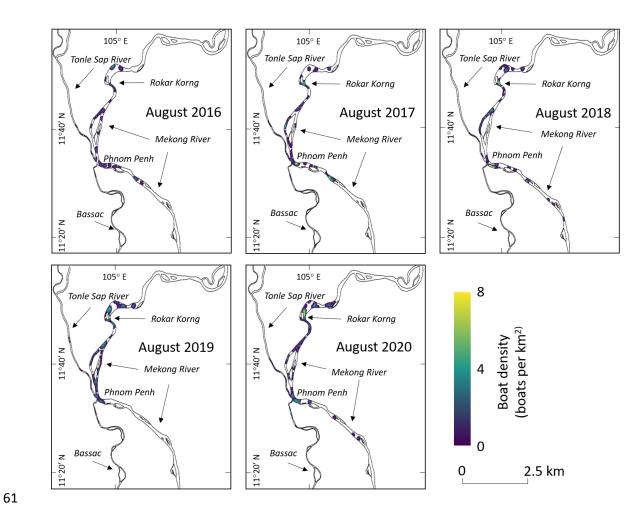
SI Figure 5: Annual heat maps for May for the period 2016 - 2020 of the Mekong River around Phnom Penh showing the locations of mining activity and the density of boats (boats per km²) showing changes in the spatial distribution of mining activity over the five year period.



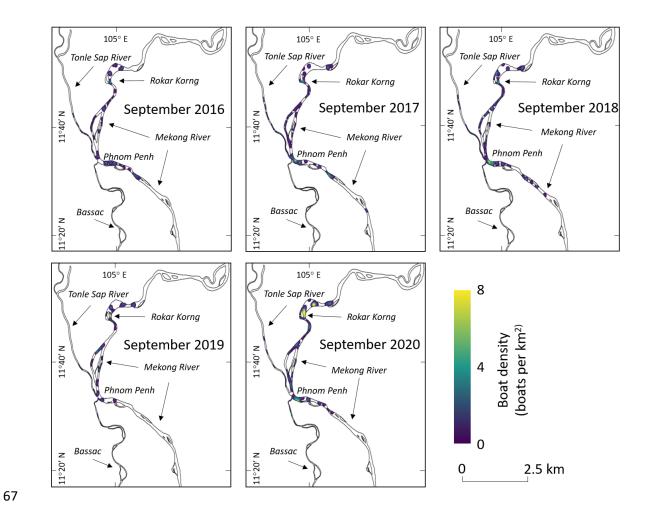
SI Figure 6: Annual heat maps for June for the period 2016 - 2020 of the Mekong River around Phnom Penh showing the locations of mining activity and the density of boats (boats per km²) showing changes in the spatial distribution of mining activity over the five year period.



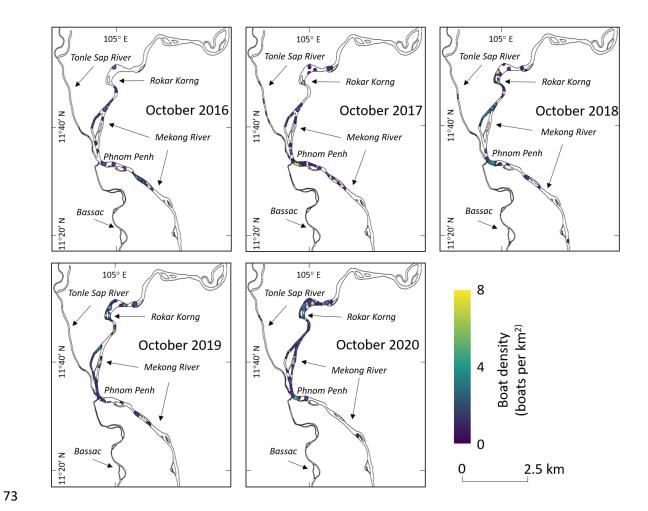
SI Figure 7: Annual heat maps for July for the period 2016 - 2020 of the Mekong River around Phnom Penh showing the locations of mining activity and the density of boats (boats per km²) showing changes in the spatial distribution of mining activity over the five year period.



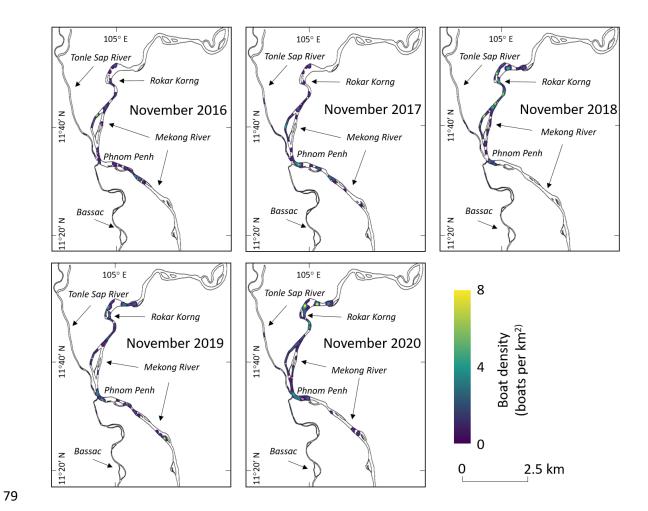
SI Figure 8: Annual heat maps for August for the period 2016 - 2020 of the Mekong River around Phnom Penh showing the locations of mining activity and the density of boats (boats per km²) showing changes in the spatial distribution of mining activity over the five year period.



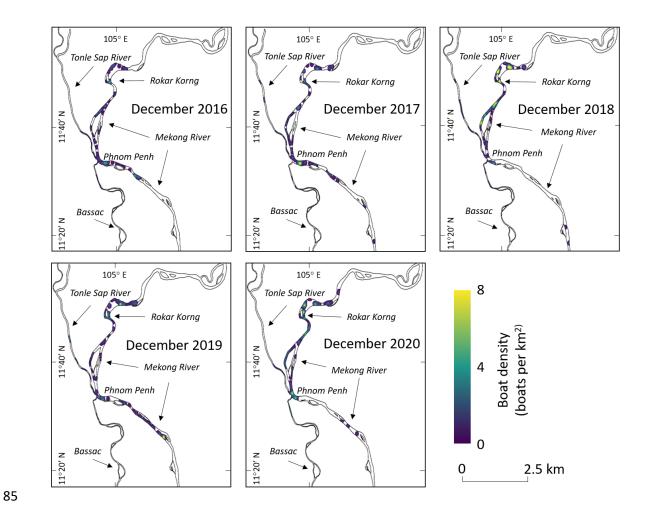
SI Figure 9: Annual heat maps for September for the period 2016 - 2020 of the Mekong River around Phnom Penh showing the locations of mining activity and the density of boats (boats per km²) showing changes in the spatial distribution of mining activity over the five year period.



SI Figure 10: Annual heat maps for October for the period 2016 - 2020 of the Mekong River around Phnom Penh showing the locations of mining activity and the density of boats (boats per km²) showing changes in the spatial distribution of mining activity over the five year period.



SI Figure 11: Annual heat maps for November for the period 2016 - 2020 of the Mekong River around Phnom Penh showing the locations of mining activity and the density of boats (boats per km²) showing changes in the spatial distribution of mining activity over the five year period.



SI Figure 12: Annual heat maps for December for the period 2016 - 2020 of the Mekong River around Phnom Penh showing the locations of mining activity and the density of boats (boats per km²) showing changes in the spatial distribution of mining activity over the five year period.