## TERMS OF USE AND SHARING POLICY

This data product is made freely available to the public and the scientific community in the belief that its wide dissemination will lead to greater scientific understanding and policy insights. The availability of this data product does not constitute publication of the data product or permission to use the information contained in the data product for publication or any commercial use.

If the data product is obtained for potential use in a publication or presentation, Dr. Kevin Gurney should be informed at the outset of the nature of this work. If this data product is essential to the work, or if an important result or conclusion depends on this data product, co-authorship may be appropriate. This should be discussed at an early stage in the work. Manuscripts using the data product should be sent to Kevin Gurney for review before manuscripts are submitted for publication so quality can be ensured and limitations of the data product accurately represented.

Every effort is made to produce the most accurate and precise results possible. However, Kevin Gurney reserves the right to make corrections to the data product at any time for reasons deemed scientifically justified.

Kevin Gurney requests 1 month prior notification regarding public presentations of results or findings based on this data product.

## SPECIFIC TO VULCAN:

The Vulcan data product uses a large amount of data to estimate fossil fuel CO2 emissions at the scale of approximately a US census tract every hour of the year. The exact resolution is a mixture of points, lines and poly-shapes.

The amount of data ingested by the Vulcan system in order to produce the fossil fuel CO2 emissions estimate is far too large for the Vulcan team to QA/QC. We cannot be resonsible for errors in the original data. We have found errors, typos, redundant entries, etc in the original data. We have repaired all those that we have found.

Hence, if you are using our data product and find estimates that appear inconsistent with expectation, PLEASE CONTACT US AND LET US KNOW.

The Vulcan data product is not intended to be compared to atmospheric CO2 at a point location or from aircraft in flight campaign mode. For that type of research we recommend you use the Hestia data product which quantifies fossil fuel CO2 at the building/street segment scale. If the Hestia is not available for the location you are doing research, the Vulcan product can be used but with caution.

If you do utilize the Vulcan data product for the purposes of comparing to point or campaign-based atmospheric CO2 measurements, please contact us before publishing the results that use our work so that we can ensure that it has been used in a manner consistent with its intended use.

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