

## ***Interactive comment on “VEIN v0.2.2: an R package for bottom-up Vehicular Emissions Inventories” by Sergio Ibarra-Espinosa et al.***

**Sergio Ibarra-Espinosa et al.**

sergio.ibarra@usp.br

Received and published: 1 November 2017

Dear Dr. Gross,

Thank you for your comments. The Comprehensive R Archive Network (CRAN) archives all package versions, with around 100 mirrors worldwide, and has archived the version used in the current manuscript. During the development of the manuscript, we used vein package version 0.2.2-3 available at <https://cran.r-project.org/src/contrib/Archive/vein/>.

We have obtained a DOI for a newer version 0.2.2-26, DOI:10.5281/zenodo.1039236 (<https://zenodo.org/record/1039236>) as you suggested. At the time of revising the paper, we will redo the calculations with the latest CRAN version that has a DOI. Never-

C1

theless, all updates were minor and the results are not compromised by the updates.

In this message, we also are showing the sessionInfo() using the latest version of vein and R:

```
library(vein)
Carregando pacotes exigidos: sp
> sessionInfo()
R version 3.4.2 (2017-09-28)
Platform: x86_64-pc-linux-gnu (64-bit)
Running under: Ubuntu 17.10

Matrix products: default
BLAS: /usr/lib/x86_64-linux-gnu/blas/libblas.so.3.7.1
LAPACK: /usr/lib/x86_64-linux-gnu/lapack/liblapack.so.3.7.1

locale:
 [1] LC_CTYPE=pt_BR.UTF-8          LC_NUMERIC=C
 [3] LC_TIME=pt_BR.UTF-8          LC_COLLATE=pt_BR.UTF-8
 [5] LC_MONETARY=pt_BR.UTF-8      LC_MESSAGES=pt_BR.UTF-8
 [7] LC_PAPER=pt_BR.UTF-8         LC_NAME=C
 [9] LC_ADDRESS=C                 LC_TELEPHONE=C
[11] LC_MEASUREMENT=pt_BR.UTF-8   LC_IDENTIFICATION=C

attached base packages:
[1] stats      graphics  grDevices  utils      datasets
[6] methods   base

other attached packages:
[1] vein_0.2.2-26 sp_1.2-5
```

C2

```
loaded via a namespace (and not attached):
 [1] compiler_3.4.2  rgdal_1.2-15    tools_3.4.2
 [4] units_0.4-6     yaml_2.1.14     Rcpp_0.12.13
 [7] raster_2.5-8    udunits2_0.13   grid_3.4.2
[10] rgeos_0.3-26    lattice_0.20-35
```

Also, the version of the libraries are geos v3.5.1, gdal v2.1.2 and udunits v2.2.20. The final version of the paper will include this information on the section Code Availability.

Thank you so much. On behalf of all authors,

Sergio

---

Interactive comment on Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2017-193>, 2017.