

typhon! Yet
another
Python
package?

Lukas Kluff,
Oliver Lemke

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Outlook

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Lukas Kluff, Oliver Lemke

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Greek mythology

- *"Typhon was a monstrous snaky giant and the most deadly creature in Greek mythology"*
- Raised by the serpent Python he became a bane to mortals
- God of the destructive storm winds



Figure 1: Zeus aiming his thunderbolt at a winged and snake-footed Typhon. (Source: Wikipedia)

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A zoo of tools

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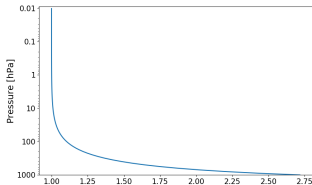
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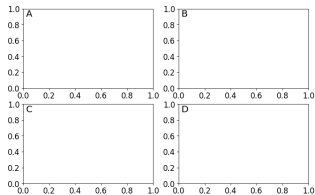
- A collection of tools for atmospheric research
- Support for Python 3.5 and 3.6
- Back to the roots:
`$ pip install typhon`
- **Anaconda** is a free, cross-platform package manager
`https://www.anaconda.com/downloads`
`$ conda install -c rtttools typhon`
- Subversion repository
`https://arts.mi.uni-hamburg.de/svn/rt/typhon/trunk/`

One package to rule them all...

- Full online documentation of (all) features
<http://radiativetransfer.org/misc/typhon/doc>
- Read and write files in ARTS XML format
- Utility functions related to among others geodesy, statistics or plotting



(a) `profile_p_log(p, q)`



(b) `label_axes()`

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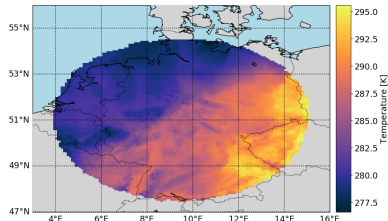
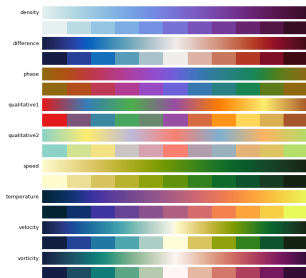
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- *"The rainbow"* can distort, mislead and confuse



- Subset of the `cmocean`¹ colormap package available



¹<http://matplotlib.org/cmoccean/>

What's next?

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- Re-implementation of SPARE-ICE
- Run ARTS from Python directly (ARTS C API).
- *That super cool feature hidden in your private directories*
- Contribution is highly appreciated!

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Thank you for your attention!

...and happy committing ;)