

# VOC Source Attribution of OH, O<sub>3</sub> and NO<sub>3</sub> Reactivity

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## Objective

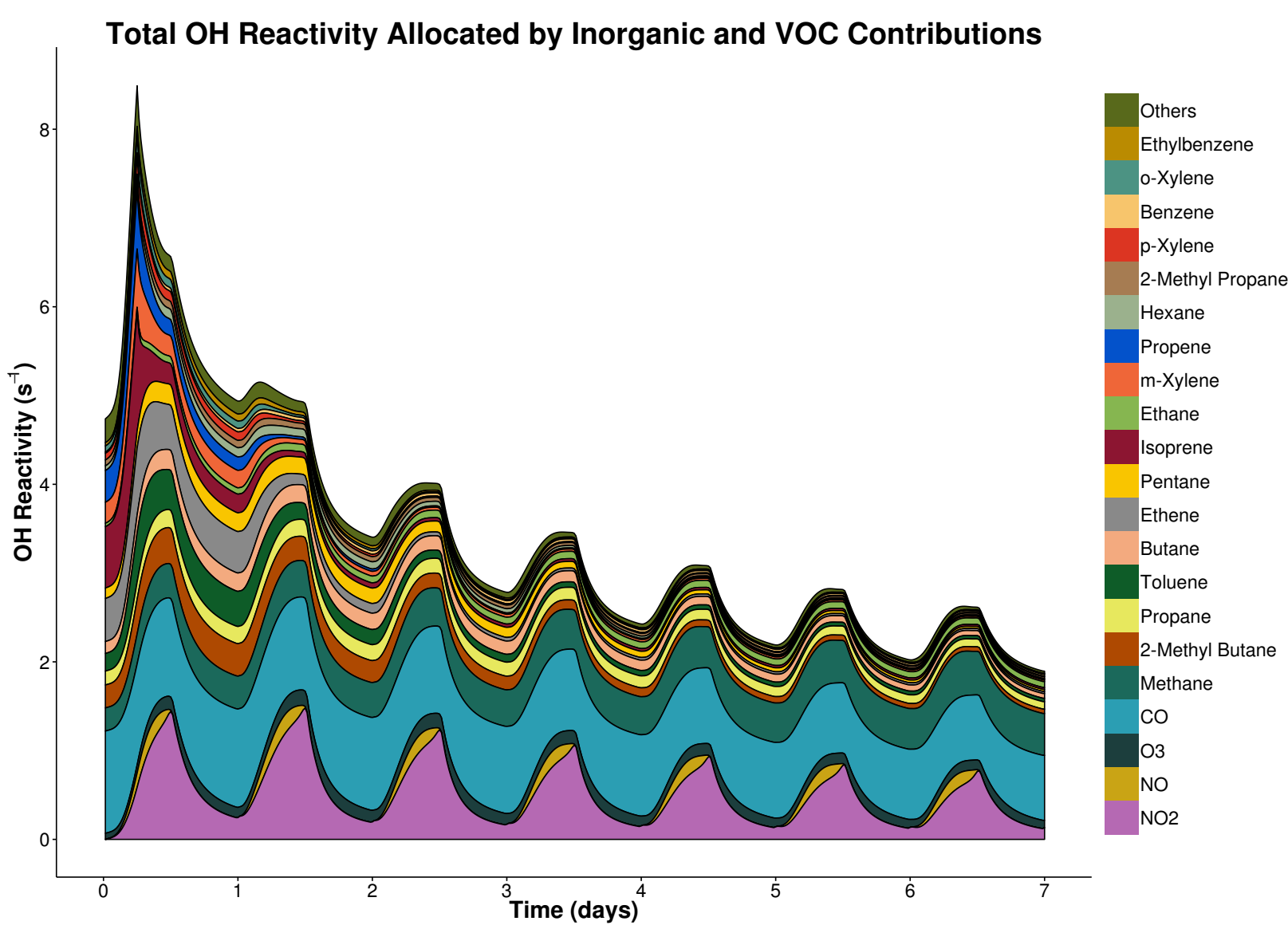


## Approach

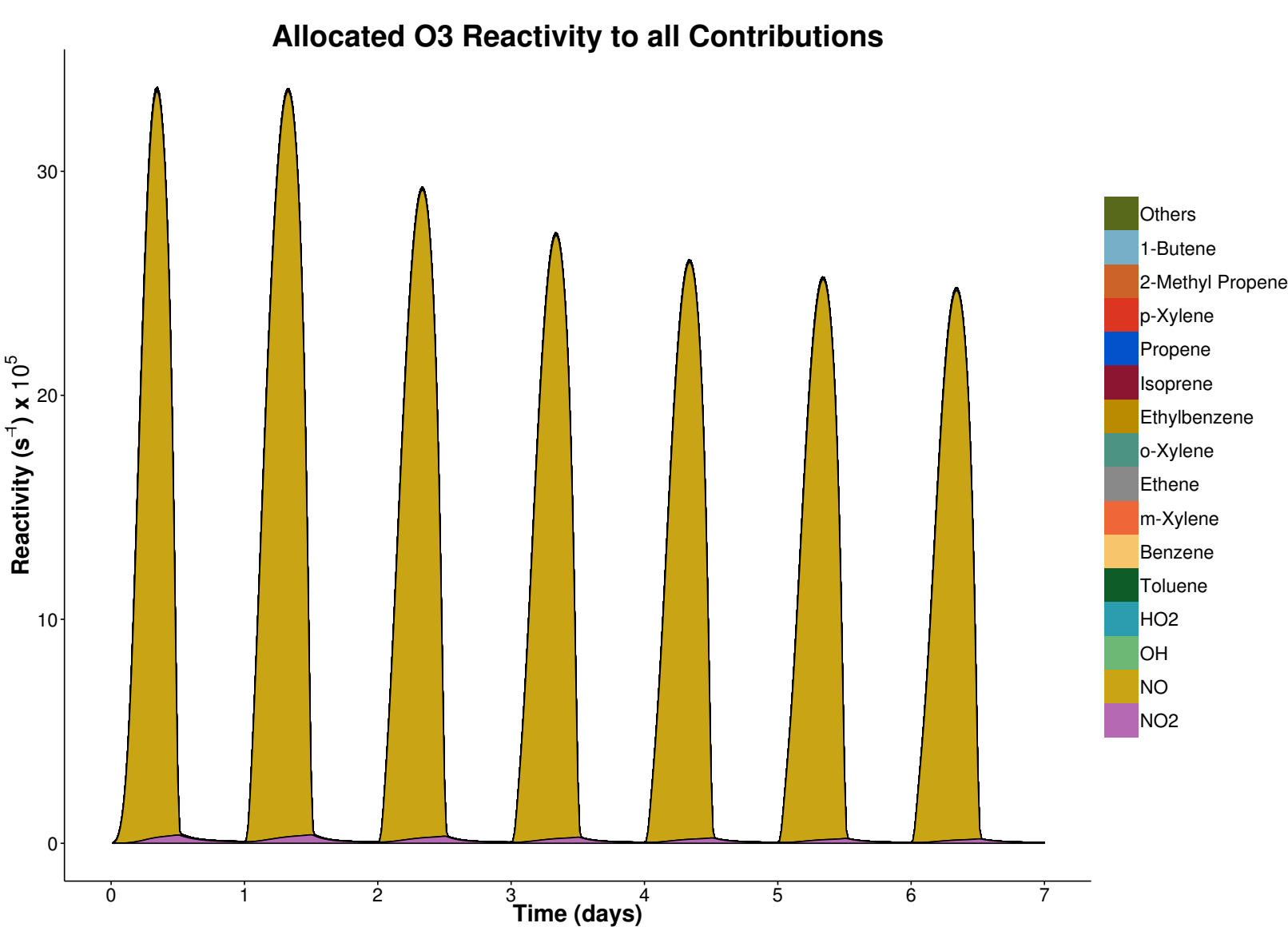
- ▶ Tagged Ozone Production Potentials (TOPPs) [1] calculated over 7 days for VOCs common to urban environments.

## Results

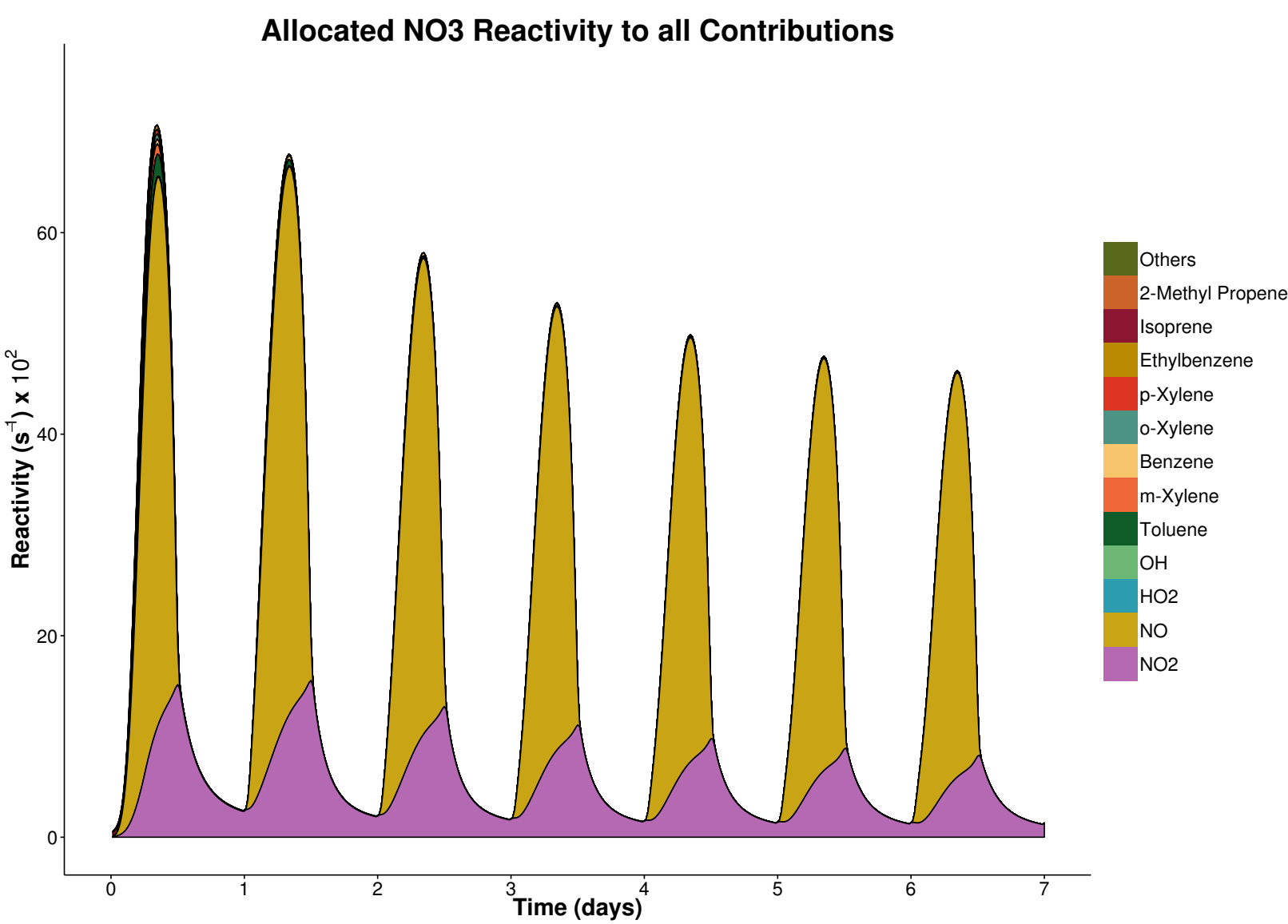
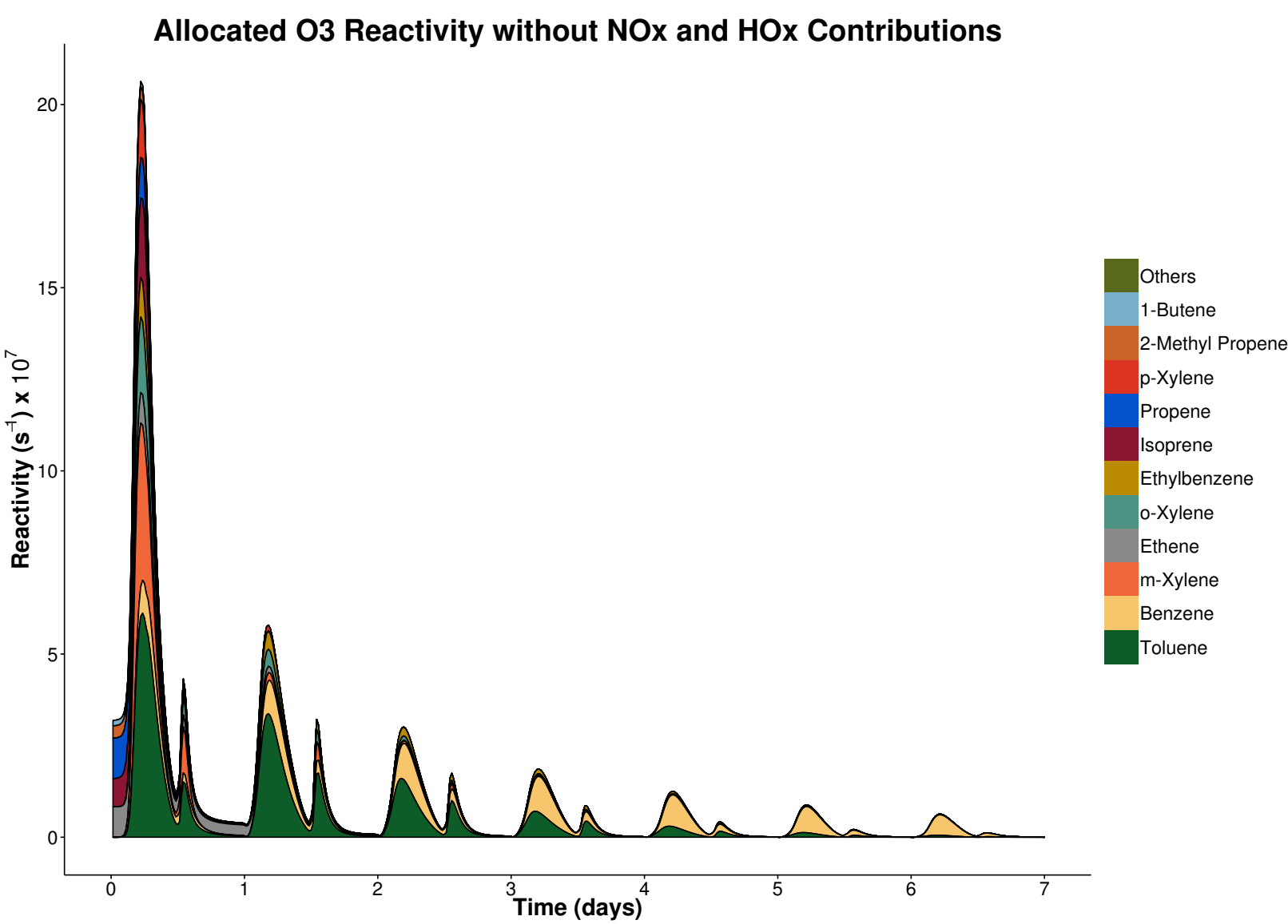
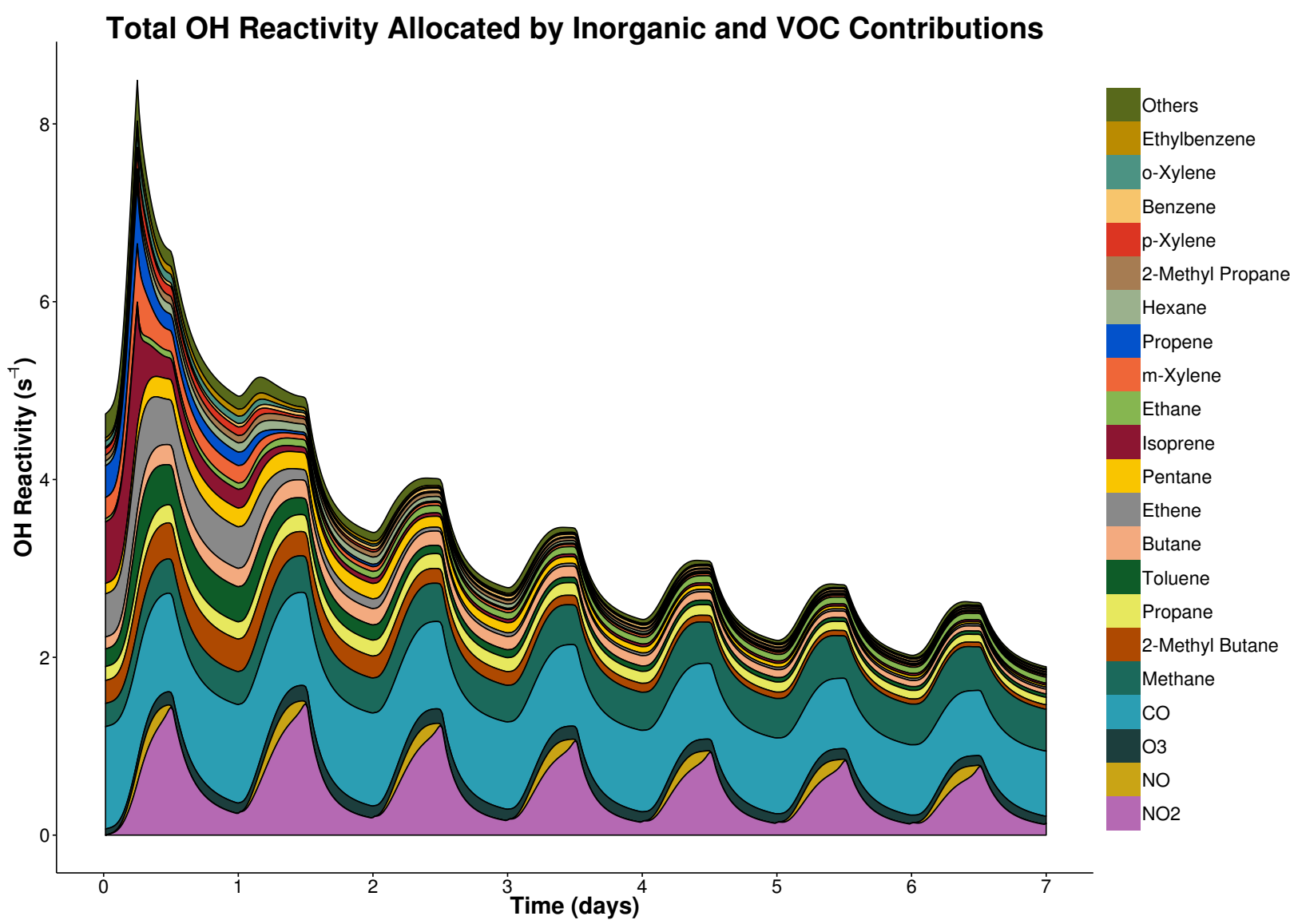
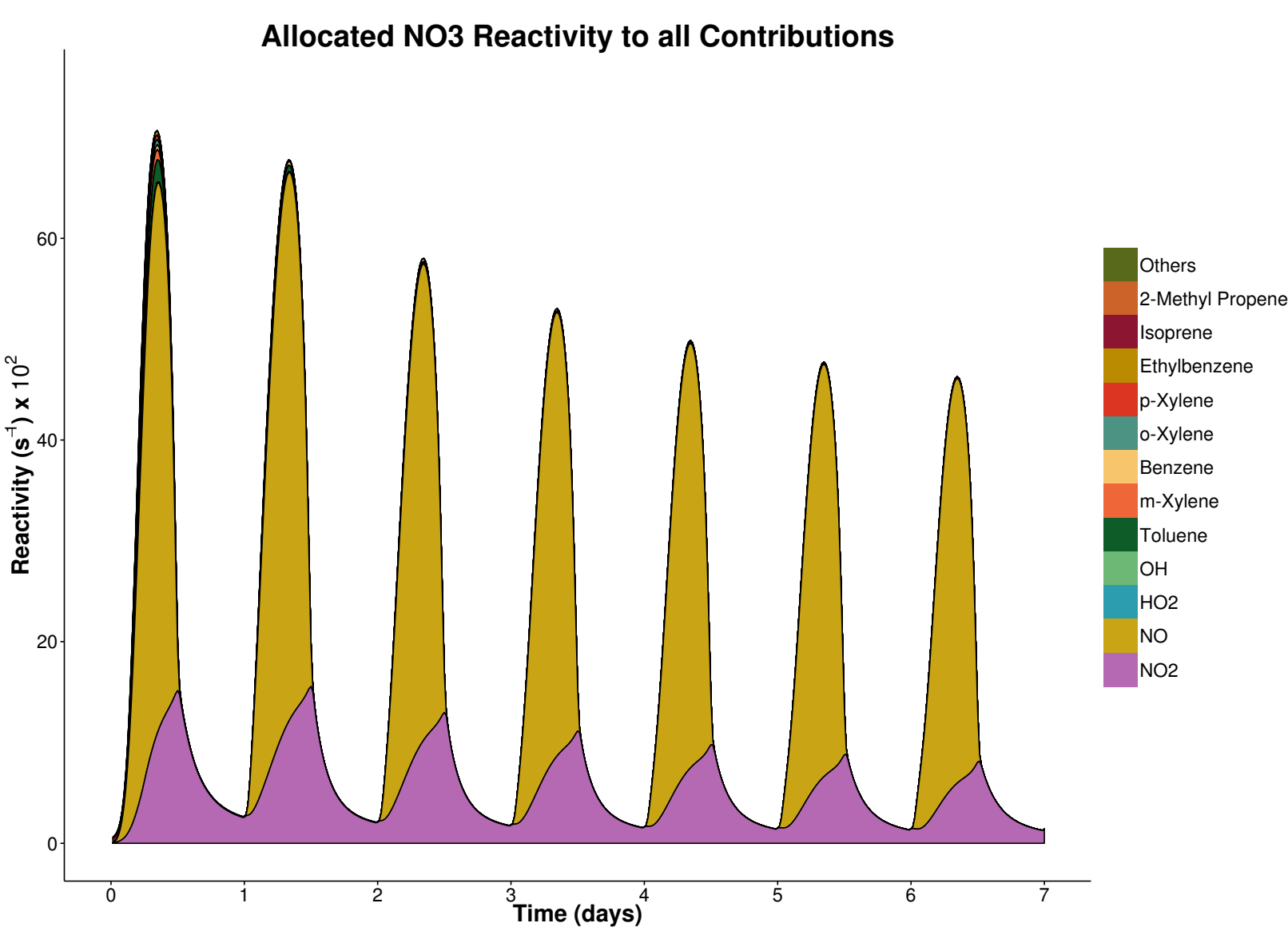
### OH Reactivity



### O<sub>3</sub> Reactivity



### NO<sub>3</sub> Reactivity



## Summary

- ▶ Near-explicit mechanisms have higher O<sub>x</sub> production than less-explicit mechanisms.

## References

[1] T. M. Butler, M. G. Lawrence, D. Taraborrelli, and J. Lelieveld. Multi-day ozone production potential of volatile organic compounds calculated with a tagging approach. Atmospheric Environment, 45(24):4082–4090, 2011.

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