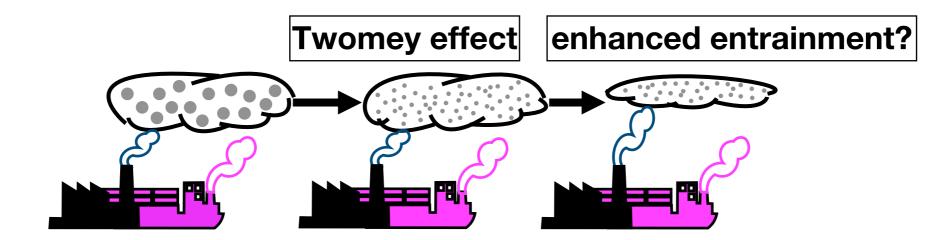
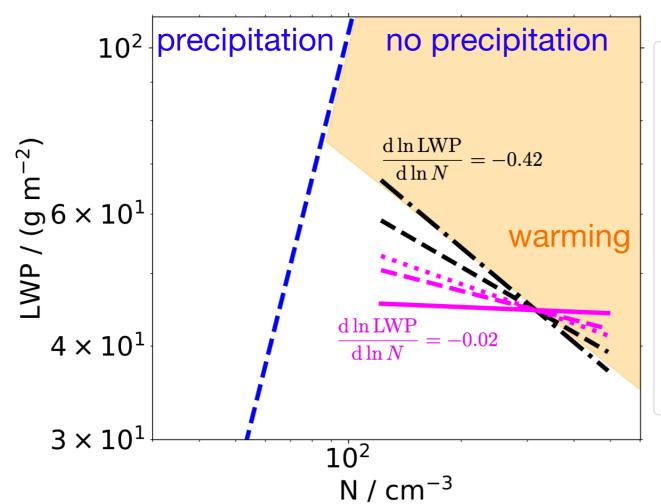
LWP response ("adjustment") to aerosol in non-prcp Sc:

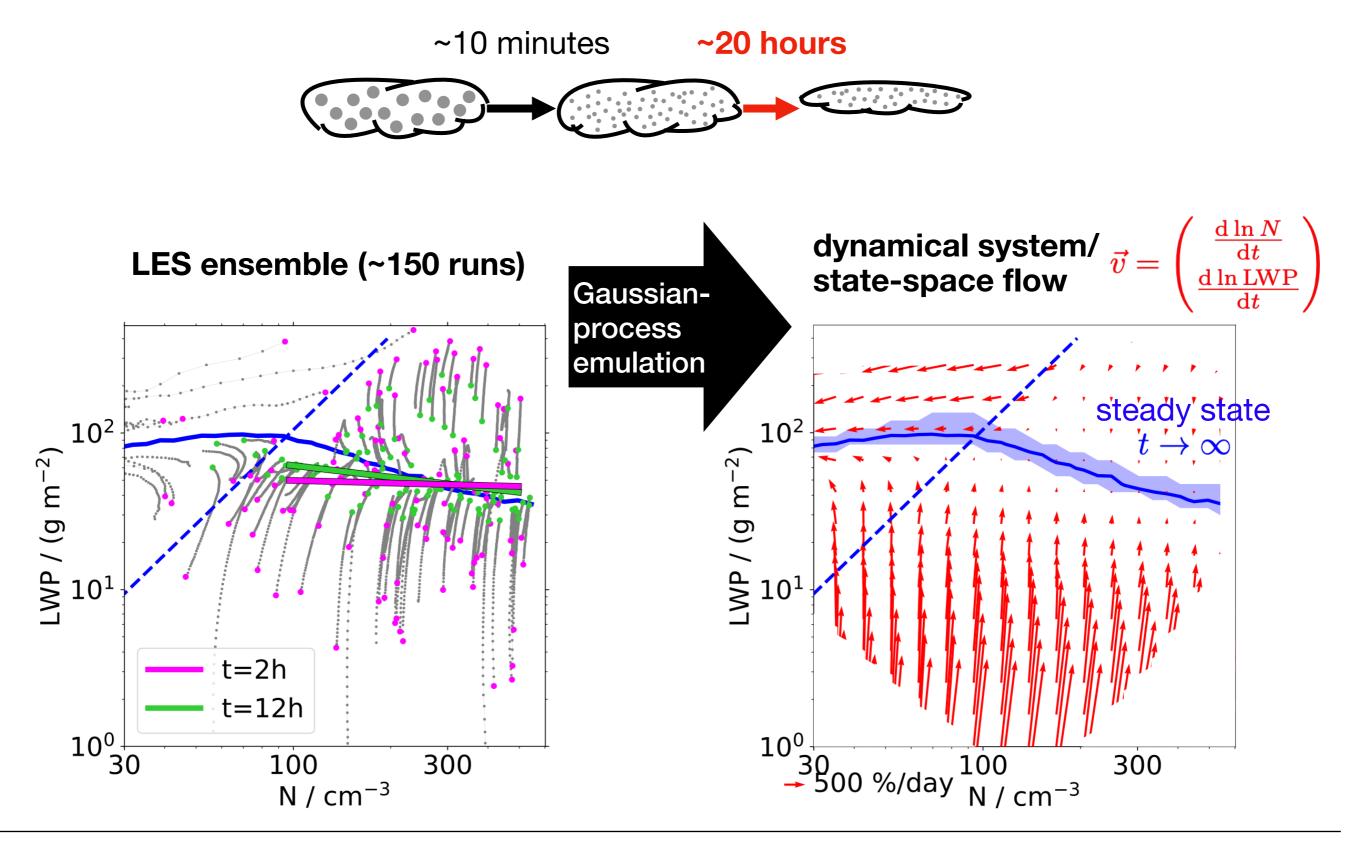




climatology vs ship tracks

- —·· Gryspeerdt et al. (2019)
- **---** Possner et al. (2019)
- ····· Coakley & Walsh (2002)
- Christensen & Stephens (2011)
- Toll et al. (2019)

LWP adjustments occur with timescale of ~20 hours:



Glassmeier, Hoffmann, Johnson, Yamaguchi, Carslaw & Feingold (2020): Ship-track-based assessments overestimate the cooling effect of anthropogenic aerosol, arXiv:2005.14159

Weak LWP adjustment in ship tracks due to short lifetime:

climatological background: ~48 hours

ship track: ~3 hours

