GitHub Repository: https://github.com/rebeccamayvarney/soiltau_ec

This repository contains analysis and plotting python scripts for the study:
Spatial emergent constraint on the sensitivity of soil carbon turnover to global warming – Varney et al. 2020, Nature Communications

Full information on the methods used in this study are attached to this paper and are available online; this includes information about datasets used, as well as the motivation and reasoning behind the analysis.

Initial analysis

- Figure1.py
- SupplementaryFigure1.py
- Figure2.py

Spatial sensitivity analysis:

1. obs_spatialsensitivity_analysis.py
2. pofp_analysis_cmip6.py
3. pofp_analysis_cmip5.py
4. Figure3.py

- SupplementaryFigure2.py
- SupplementaryFigure3.py

Spatial emergent constraint analysis

1. parisagreement_cmip6_analysis.py
2. parisagreenent_cmip5_analysis.py
3. parisargreement_cmip5cmip6_plotting.py
4. emergentconstraint_cmip5cmip6_analysis.py
5. Figure4.py

Observational sensitivity study

- SupplementaryFigure4.py
- SupplementaryFigure5.py
- SupplementaryFigure6.py

Note: Python scripts must run in numbered order: starting with numbered spatial sensitivity analysis scripts and then followed by numbered spatial emergent constraint analysis scripts.