Testing code on how random values are generated for the Monte Carlo analysis.

[river\_initial\_monac\_code.py](https://drive.google.com/open?id=1Zbu72KcVKtCSd0ZzVFImgOFxp2gyBjun&usp=drive_copy)

[Teslin\_river.py](https://drive.google.com/open?id=1L6HMWEIYkrYdGWxuvU37WmALalFg7Edw&usp=drive_copy)

This code was used to check the random sampling for the Monte Carlo analysis work. For simplification, we used only the river code of the Teslin River ([Teslin\_river.py](https://drive.google.com/open?id=1L6HMWEIYkrYdGWxuvU37WmALalFg7Edw&usp=drive_copy)).

Output of the code

The [river\_initial\_monac\_code.py](https://drive.google.com/open?id=1Zbu72KcVKtCSd0ZzVFImgOFxp2gyBjun&usp=drive_copy) script generates random initial values and saves them in the csv format.

[CDOM\_component\_fractions.csv](https://drive.google.com/open?id=1sBCNV_plhLwP5DcraTQkBlUy4oraZzfb&usp=drive_copy)

[Chemical\_fraction.csv](https://drive.google.com/open?id=1ffnh8K0cPQwL4K9Wg9OhbFppBfK3NWH5&usp=drive_copy)

[Initial\_DOC\_Values.csv](https://drive.google.com/open?id=15jRHroj0QPuOzUP90VYnp4OvAjibfSKS&usp=drive_copy)

[Production\_Values.csv](https://drive.google.com/open?id=1MpzWpWJdjrswusEmM9yH-tpPznET1kaU&usp=drive_copy)

[Tau\_Values.csv](https://drive.google.com/open?id=19Ajk3-iIOtLZDIU8M0QzBdnLwCMfYdSp&usp=drive_copy)

[Velocity\_Values.csv](https://drive.google.com/open?id=1iiDmDxd8CDMdupYstvkDoLpGuZkp0nhk&usp=drive_copy)

These CSV files and located in the ../Testing/output/random\_initial\_val/ ([random\_initial\_val](https://drive.google.com/open?id=1q5tVx59322tZSBlg8f4WqmxxmHWSCXnJ&usp=drive_copy))

The testing Python code gives the testing river mouth values of the macromolecules.([teslin](https://drive.google.com/open?id=1b8qqr2JIfxBM6GkBkBTW7Ul6clDWDDXW&usp=drive_copy))