

GEOG5790M: Ensemble Kalman Filter

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1 Aim

This document has been produced as part of the second assessment for the GEOG5790M module. The aim of this module is to further develop Python programming skills. With this aim in mind, the module focuses on the following processes:

- Data processing,
- Analysis and visualisation, and
- Modelling.

As with the second assessment for the preceding introductory module, the scope for this assessment is left relatively open-ended with the hope that something of use can be produced. The code that has been produced therefore aims to implement a data assimilation technique known as the Ensemble Kalman Filter (EnKF) which can aid the simulation process when new data is provided regarding the system that is being modelled.

1.1 Problem Specification

2 Implementation

3 Usage

4 Future Improvements

A Required Packages