



## HORIZON 2020 IMMERSE (Grant Agreement 821926)

### Improving Models for Marine EnviRonment SErvices

Deliverable D7.1 **Public** 

This document provides information as to the software code used in IMMERSE D7.3.

The source code is available on GitHub <u>https://github.com/MetOffice/ocean\_error\_covs</u>

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			CONTRIBUTING.md		
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Dot 10.5281//rmode.4580548 Python Error Covariance Estimation This is a quick User Guide for the Python3 code which calculates error covariances using Hollingsworth and methodology (see also the same methodology being applied for sea surface temperatures in Robert-Jones 4					
			The code is split into two parts: • HL error covs (Calculate HL erro		
			PostProcessing (Fit HL error cova		
			To see the documentation strings eith	led documentation strings that give details of their i er look at the code or use the python help comman easily run simple tests containing both parts of the c	d. There is also a folder

A stable version has been uploaded on zenodo archive at <u>https://zenodo.org/record/4580548</u>

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March 4, 2021

Software Open Access

## MetOffice/ocean\_error\_covs: Development of HL method and function fitting

Davi Mignac Carneiro

This is the first release of the ocean error covariance code repository. In v1.0.0 we include the Hollingsworth and Lonnberg method to compute observation-minus-forecast data. We also include the respective function fitting code to estimate the magnitude and length-scales of the errors.

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