This repository contains data underlying the thesis “The Causes of Regional Sea-level Change” by Carolina M. L. Camargo. A copy of the dissertation can be found at the TU Delft repository.

The data is divided in folders following the chapters of the dissertations. When using any of this data, please cite the appropriate publications. In addition, all the produced results of this dissertation has underlying data of other publications and studies, so please also acknowledge those.

**Chapter 1 – Introduction**

In this folder you can find:

* gmsl.xlsx – Excel table underlying Table 1.1, Table 1.2 and Figure 1.3
* masks.nc – netcdf file with ocean basins underlying Figure 1.4
* regional.xlsx – Excel table underlying bar plots in Figure 1.4

**Chapter 2 – Steric Sea-level Change**

In this folder you find:

* Upper\_ocean folder: 0-2000m steric time series and trends. A dedicated Readme on this folder explains in more detail the files.

Note: The regional time series are only available at the 4tu link below.

* Deep\_ocean folder: Deep ocean (>2000m) time series and trends, underlying Appendix of Chapter 2.

The data of this (main) chapter is also available at:

<https://data.4tu.nl/articles/dataset/Steric_sea-level_change_estimates_from_2005-2015_and_1993-2017/12764933>

**Chapter 3 – Mass-driven Sea-level Change**

This folder contains files with regional barystatic (ocean mass) sea-level change trends and uncertainty, both absolute and relative fingerprints. A dedicated Readme on this folder explains in more detail the files.

The data of this chapter is also available at: <https://data.4tu.nl/articles/dataset/Data_underlying_the_publication_Regional_barystatic_sea-level_trends_and_uncertainties_1993-2016/16778794>

**Chapter 4 – Regional Sea-level Budget**

This folder contains files from the regional sea-level budget analysis. A dedicated Readme on this folder explains in more detail the files.

The data of this chapter is also available at:

<https://zenodo.org/record/7385561#.Y-9V7ezML5U>

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In case of questions, please contact Carolina Camargo at [carolina.camargo@nioz.nl](mailto:carolina.camargo@nioz.nl) or [caromlcamargo@gmail.com](mailto:caromlcamargo@gmail.com)