

Data and scripts in support of Shellfish Reefs Increase Water Storage Capacity on Intertidal Flats Over Extensive Spatial Scales

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Data was collected and assembled by Sil Nieuwhof and Jim van Belzen
Matlab and R code by Sil Nieuwhof and Jim van Belzen

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This code comes with no warranties or support

The directory structure in this repository is based on the figure order in the manuscript.

Comments are used in the scripts to clarify the steps taken.

Figures 2, 4, 5, 6 and 7 are generated using the figures.R script located in the root.

Figure 1 is constructed using Gimp.

Figure 3 is constructed using ArcGIS 10.0

The folder dgps_vs_tls contains the data and script to verify our results of the terrestrial laser scan with differential global positioning system.

The folder figure3 contains a mappackage (*.mpk) with to reconstruct figure 3

The folder figure7 contains the data and scripts (*.R and *.m) to reproduce the simulations performed to reconstruct figure 7.

The folder figureS1 contains data, scripts (*.R), a mappackage (*.mpk) and a gimp file (*.xcf) to construct figure S1

The folder figureS2 contains data, scripts (*.R), to construct figure S2

The folder figureS3 contains, a script (*.R) and a *.pub file, to construct figure S1

The folder points to raster includes a script (*.R) to a raster file.

The folder table1 contains the data used to construct table 1

The folder tables3 and reef processing includes a script (*.R) to analyze the reef structure and to construct table S3