

# Supporting Information for “Sediment Connectivity: A Framework for Analyzing Coastal Sediment Transport Pathways”

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## Additional Supporting Information (Files uploaded separately)

1. Caption for Dataset S1

## Introduction

Data archiving for this study is currently underway. The data under consideration will be stored openly in compliance with FAIR Data standards on the 4TU data repository (<https://data.4tu.nl/>) at DOI 10.4121/uuid:9879475e-03a8-4f54-8b78-83e6dae287f8, upon acceptance of the manuscript.

Model input files used in this study have been temporarily included here as supporting information for the review process. Specifically, the Delft3D model input files used to

produce Figure 6 are provided here, including the bed sediment configuration for Node 5. Model files for the remaining 24 nodes are identical in every respect except for the initial location of the tracer sediment.

These files were then run with Delft3D Version 6.02.08.6712 to produce the results shown in this paper. Details regarding the individual file types can be found in the Delft3D User Manual (Deltares, 2014).

### **Data Set S1.**

Data Set S1 consists of the files contained in the following zip folder:

`Pearsonetal_SedimentConnectivity_Delft3DModelFiles_Unit005.zip`

This zip folder contains the following Delft3D model input files:

`Unit005_Native_100mm.dep`

`Unit005_Native_100mm.frc`

`Unit005_Native_200mm.dep`

`Unit005_Native_200mm.frc`

`Unit005_Native_300mm.dep`

`Unit005_Native_300mm.frc`

`Unit005_Native_400mm.dep`

`Unit005_Native_400mm.frc`

`Unit005_Tracer_100mm.dep`

`Unit005_Tracer_100mm.frc`

`Unit005_Tracer_200mm.dep`

`Unit005_Tracer_200mm.frc`

`Unit005_Tracer_300mm.dep`

Unit005\_Tracer\_300mm.frc

Unit005\_Tracer\_400mm.dep

Unit005\_Tracer\_400mm.frc

ame.bcc

ame.bnd

ame.crs

ame.ddb

ame.inb

ame.mdf

ame.obs

ame.sed

ame.url

ame.wnd

ame\_2016.dep

ame\_2016\_wave.dep

ame\_low.enc

ame\_low.grd

ame\_nour1.obs

ameland2850\_neumann0.bch

amewave.enc

config\_d\_hydro.xml

rif4.mor

vanrijn07.frm

vanrijn07.trt

## References

Deltares. (2014). *Delft3D-FLOW, User Manual*. Delft, the Netherlands: Author. Retrieved from [www.deltares.nl](http://www.deltares.nl)