

# Linking the morphology and ecology of subtidal soft-bottom marine benthic habitats: A novel multiscale approach

Metadata

(Mestdagh et al., 2020)

## Tab **Species abundances**:

Contingency table with taxa as rows and stations (replicates) as columns. Stations are indicated with their respective number, replicates with a letter code (FA, FB, FC). Damaged (dam.) and juvenile (juv.) individuals are indicated as such. Abundances are expressed as number of individuals per replicate (box core).

## Tab **Ecological data**:

Ecological data (macrobenthos and sediment) used in the analysis:

- Replicate: The station and replicate, using the same coding as in tab **Species abundances**
- Location: Location of the station on or around the Brown Bank (Beyond, Trough, Flank, Crest, Transitional; see Mestdagh et al., 2020)
- Sandwave: Location of the station with respect to sand waves (Beyond, Trough, Flank; see Mestdagh et al., 2020)
- Totdensity: Total density of macrobenthos found per replicate (ind m<sup>-2</sup>)
- Richness: Species richness per replicate
- Evenness: Pielou's evenness calculated per replicate
- TOC: Total Organic Carbon measured in the sediment per replicate (%)
- TN: Total Nitrogen measured in the sediment per replicate (%)
- Chla: Chlorophyll *a* content measured in the sediment per replicate (µg g<sup>-1</sup>)
- MGS: Median grain size of the sediment per replicate (µm)
- Mudpct: Mud content of the sediment per replicate (%)

## Tab **Geomorphological data**:

Geomorphological data derived from multibeam echosounding at each station:

- Station: Station number
- Mz: Median grain size ( $M_z$ ) per station as a geoacoustic parameter, derived from backscatter data
- w2: Surface roughness ( $w_2$ ), derived from backscatter data
- s2: Volume scattering ( $\sigma_2$ ), derived from backscatter data
- Bathymetry: Seafloor bathymetry (cm)
- Backscatter
- BPI4000-BPI05: Bathymetric Position Index, with numbers referring to radius of calculations

**Data used in:**

Mestdagh, S., Amiri-Simkooei, A., van der Reijden, K. J., Koop, L., O'Flynn, S., Snellen, M., Van Sluis, C., Govers, L. L., Simons, D. G., Herman, P. M. J., Olf, H., Ysebaert, T. (2020) Linking the morphology and ecology of subtidal soft-bottom marine benthic habitats: A novel multiscale approach. *Estuar. Coast. Shelf Sci.* 238:106687.