**Data presented in the paper "Is summer growth reduction related to feeding guild? A test for a benthic juvenile flatfish sole (Solea solea) in a temperate coastal area, the western Wadden Sea” by Poiesz et al.**

**Creators.**

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0-Group flatfish, Sole, Nursery ground dynamics, Dynamic energy budget model, Otolith microstructure analysis, Wadden sea

**Content of the dataset.**

Growth performance was analyzed by combining information on individual growth based on otolith daily ring analysis with predictions of maximum growth (= under optimal food conditions) based on a Dynamic Energy Budget model. This research is a combination of collected field data, otolith microstructure analysis and the theoretical growth was calculated by means of four DEB model equations based on the Von Bertalanffy growth model. The enclosed data consist of the collected field data, calculated theoretical growth over time, and calculated realized growth (RG, dimensionless), defined as the ratio between observed size and DEB-predicted maximum size under optimal food conditions.

**Coding and data interpretation.**

* **Datafiles:**

DEB\_Observations\_Sole\_XXXX.csv

Weekly batch: settlement batch for sole (7 days period)

Number: Individual fish number

Date: Date of sampling

Year: Year of sampling

TL (mm): Total length (mm)

SL (mm): Standard length (mm)

Age (d): Age in days after settlement (calculated as sampling day – age in days).

Sampling daynr: Day of sampling

Settlement daynr: Day of settlement

* **DEB-model used datasets:**

TmpXXXX.csv

Day: Sampling day

Temp: Temperature for each day of the year

Obs\_cohorts\_Sole\_XXXX.csv

(See description above)

* **R-code DEB-model:**

DEBmodel\_Sole\_XXX.Rmd