Dataset explanation

Cuttlefish buoyancy control in response to food availability and ocean acidification

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Dataset: explanation of the columns

Tank	Replicate of CO_2 treatment: 5 control, 5 high CO_2. Each tank contained 18 vials, with one egg each
Color	Feeding treatment: **GY**: Non-fed cuttlefish with the respective cuttlebone sampled up to 2 days after hatching; **R**: Non-fed cuttlefish with the respective cuttlebone sampled once the animal started floating; **G**: Fed cuttlefish with the respective cuttlebone sampled at the same time as a cuttlefish from the previous treatment started floating; **W**: Fed cuttlefish with the respective cuttlebone sampled after 25 to 30 days; **E**: unhatched cuttlefish.
Label	Number of the cuttlefish, regarding the feeding treatment
ID	ID of the cuttlefish, regarding the tank and the feeding treatment
Treatment	CO_2 treatment: **A**: High CO_2 **C**: Control
Hatching	**1**: hatched cuttlefish **0**: unhatched cuttlefish
Hatching_date	Date of hatching
Days_until_hatching_trt	Exposure time of the eggs to the respective CO_2 treatment until hatching
Sampling_date	Date of the cuttlebone sampling
Days_until_sampling	Exposure time of the newborns to the respective CO_2 treatment after hatching and until sampling
Floating	**1**: floater **0**: sinker
Feeding	**1**: fed **0**: non-fed
Weight	Weight of the cuttlebone in mg
Area	Area of the cuttlebone in mm^2
Density	Density of the cuttlebone obtained by the equation Weight/Area, represented in mg/mm^2

Data_general

This dataset was used to analyse the hatching success.

Data_GY

This dataset was used to analyse the density of the cuttlebone at hatching.

Dataset derived from data_general, containing only non-fed cuttlefish with the respective cuttlebone sampled up to 2 days after hatching (feeding treatment: **GY**).

Four individuals were removed from this dataset to perform the analysis as they were unusable for the density, due to the poor cuttlebone state after the sampling.

Data_without_E_GY

This dataset was used to study the cuttlebone density of the newborns and the floating rate.

Dataset derived from data_general:

- excluding feeding treatment **GY**: this was not in the interest of the test;
- excluding of **E**: unhatched cuttlefish

Data_feed_without_E_GY

This dataset was used to study the cuttlebone density of the newborns regarding the floating response of the cuttlefish according to the CO_2 treatment.

Dataset derived from data_general:

- excluding feeding treatment **GY**: this was not in the interest of the test;
- excluding of **E**: unhatched cuttlefish
- only **fed** cuttlefish were used: as there was no non-floater cuttlefish when non-fed.