

Information on the data belonging to “In-situ incubation of a coral patch for assessment of carbonate system dynamics” by Van Heuven, S.M.A.C., Webb, A., De Bakker, D., Meesters, E., Van Duyl, F.C., Reichart, G.J. and De Nooijer, L.J.

The accompanying dataset contains four CSV- and four Matlab files. The former list the measured data that are summarized in the paper’s table 1 and 2. The Matlab files are the scripts that were written to process the raw data, resulting in modelled exchange rates (figure 4, figure S3).

The file ‘Chem.csv’ contains the measured total alkalinity and DIC (measured on the VINDTA), the total alkalinity determined on the optical titrator, the DOC concentrations and the measured nutrient (PO_4 , NH_4 , NO_3+NO_2 , NO_2 and silica). In the first columns are the sample days and times. The file ‘fortbay_weather.csv’ lists the air temperature, pressure, solar radiation and wind direction (in degrees) for the sampled period, including a few days prior and after the experimental campaign. The files ‘lightlogA.csv’ and ‘lightlogB.csv’ contain the light logger data (measured with 10-minute intervals). The three ‘.mat’ files all are being used by the script Saba_Tent.m and perform the Monte Carlo permutations necessary to estimate the tent’s exchange rates.