Meta-data for Reused Growth Medium Experiment Datasets
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In all datasets, 'NA' indicates data are not available.

DataTable1_Growth.csv
Growth-related variables for each experimental replicate culture. Units in parentheses.
Letters below represent CSV file columns, in order.

A. Algae
    i. Identity of algae used in the experiment.
    ii. 'C323' = *Staurosira* sp. C323; 'D046' = *Chlorella* sp. D046; 'Navicula' = *Navicula* sp. SFP
B. Round
    i. Round of experiment (indicates number of reuses of the medium for the reused medium treatment).
    ii. Number 0 through 4.
C. Day
    i. Day of the experiment round.
    ii. Number 0 through 5.
D. Treatment
    i. Experimental treatment.
    ii. 'F' indicates fresh medium treatment. 'R' indicates reused medium treatment.
E. Replicate
    i. Biological replicate per experimental treatment.
    ii. Letters A through C.
F. Chl
    i. In vivo chlorophyll concentration (arbitrary units).
    ii. Raw value (not blank-subtracted).
G. OD750
    i. Optical density of whole culture measured at 750 nm (arbitrary units).
    ii. Raw value (not blank-subtracted).
H. OD750_filt
    i. Optical density of 0.2-µm culture filtrate measured at 750 nm (arbitrary units).
    ii. Raw value (not blank-subtracted).
I. AlgaeConc
    i. Algae cell concentration (10^6 cells/mL).
J. BacteriaConc
    i. Bacteria cell concentration (10^6 cells/mL).
K. DOC
    i. Biologically-derived dissolved organic carbon concentration of 0.2-µm culture filtrate (µM C).
L. TDN
    i. Total dissolved nitrogen of 0.2-µm culture filtrate (µM N).
M. BulkLipids
    i. Neutral lipids concentration of whole culture, based on Nile Red staining, in relative fluorescence units (RFU).
N. ExtLipids
    i. Neutral lipids concentrationof 0.2-µm culture filtrate, based on Nile Red staining (RFU).

O. Salinity
    i. Salinity of 0.2-µm culture filtrate (parts per thousand).
P. FvFm
    i. F_v/F_m, the quantum yield of photochemistry in Photosystem II (unitless).
Q. PC
    i. Blank-corrected particulate carbon measured on a GF/F filter (µmoles C).
R. PN
    i. Blank-corrected particulate nitrogen measured on a combusted GF/F filter (µmoles N).
S. Vol
    i. Volume filtered through the GF/F filter used for measuring PC and PN (mL).
T. pH
    i. pH of whole culture (unitless).
U. PO4
    i. Orthophosphate concentration in 0.2-µm culture filtrate (µM PO_4).
V. NH4
    i. Ammonium concentration in 0.2-µm culture filtrate (µM NH_4).
W. Si
    i. Reactive silica concentration in 0.2-µm culture filtrate (µM Si).
    ii. D046 experiment did not use Si.
X. DIC
    i. Inorganic carbon concentration of whole culture (µM C).
    ii. For *Navicula* sp. SFP, it is the average of 2 replicate samples. For *Staurosira* sp. C323, only one sample was measured per experiment culture. For *Chlorella* sp. D046, only one sample was measured per experiment culture only on the last day of the experiment (Round 4, Day 5).
Y. TOC_rate
    i. Total organic carbon production rate, as calculated from the radiolabeled carbon method and DIC concentration (µM C/day).
    ii. For *Chlorella* sp. D046 experiment, this is not the calculated rate but is the raw, blank-corrected, mean DPM (disintegrations per minute) divided by total ^{14}C DPM added. Therefore, it does not account for DIC concentrations, and absolute values cannot be compared among replicates or treatments.
Z. POC_rate
    i. Particulate organic carbon production rate, as calculated from the radiolabeled carbon method and DIC concentration (µM C/day).
    ii. For *Chlorella* sp. D046 experiment, this is not the calculated rate but is the raw, blank-corrected, mean DPM (disintegrations per minute) divided by total ^{14}C DPM added. Therefore, it does not account for DIC concentrations, and absolute values cannot be compared among replicates or treatments.

DataTable2_Daily.csv
Data common to all experimental replicate cultures in an experiment.
Letters below represent CSV file columns, in order.

A. Algae
    i. Identity of algae used in the experiment.
    ii. 'C323' = *Staurosira* sp. C323; 'D046' = *Chlorella* sp. D046; 'Navicula' = *Navicula* sp. SFP
B. Round
    i. Round of experiment.
    ii. Number 0 through 4.
C. Day
    i. Day of the experiment round.
    ii. Number 0 through 5.
D. Date
    i. Day of experiment sampling (MM/DD/YYYY).
E. Tstart
    i. Time of day (24-hour time) that experimental sampling began (HH:MM).
F. Tend
    i. Time of day (24-hour time) that experimental sampling ended (HH:MM).
    ii. End time does not include the end of the radiolabeled carbon incubation method.
G. CultureVol
    i. Approximate volume of the experimental cultures (mL).
H. AirFlow
    i. Approximate air flow rate into the experimental cultures (mL/min).
I. InocBefore
    i. In vivo chlorophyll concentration of the inoculum culture prior to transferring with growth medium (arbitrary units).
J. InocAfter
    i. In vivo chlorophyll concentration of the inoculum culture after transferring with growth medium (arbitrary units).
K. Chl_medium
    i. In vivo chlorophyll concentration of the growth medium blank sample (arbitrary units).
L. OD750_medium
    i. Optical density at 750 nm of the growth medium blank sample (arbitrary units).

DataTable3_Filtrate.csv
Data from biodegradation experiments in post-experiment culture filtrate.
Letters below represent CSV file columns, in order.

A. Algae
    i. Identity of algae used in the experiment.
    ii. 'C323' = *Staurosira* sp. C323; 'D046' = *Chlorella* sp. D046; 'Navicula' = *Navicula* sp. SFP
B. Date
    i. Day of sampling (MM/DD/YYYY).
C. ElapsedDays
    i. Days elapsed since the last day of the experiment. The last day of the experiment represents 0 days elapsed.
D. Treatment
    i. Experimental Treatment from which the filtrate is derived.
    ii. 'F' indicates fresh medium treatment. 'R' indicates reused medium treatment.
E. Replicate
    i. Biological replicate per experimental treatment, from which the filtrate is derived.
    ii. Letters A through C.
F. BacteriaConc
    i. Bacteria cell concentration (10^6 cells/mL).
G. DOC
    i. Biologically-derived dissolved organic carbon concentration of 0.2-µm filtrate (µM C).
H. TDN
    i. Total dissolved nitrogen of 0.2-µm filtrate (µM N).