**ReadMe_Processed_Data**

General guide to data:
**Column Headings: RR1,RR4,RR5 etc... are each gel trap samples. 30 total.**
**Row Indices:** names of organisms found as solo sinking cells in gel trap samples

**Metadata:**
**Fields** - number viewed either 1 for entire gel, or 15 or 20 for 2mmx2mm subfields of gel
**m2per field**-size of Field <u>unit:</u> $m^2$
**Elapsed_Time_(days)** number of days gel trap was out collecting sinking particles. unit: days
**True_Depth_(m)** record of actual depth trap drifted at, <u>unit: m</u>
**Trap_Type:** type of sediment trap platform: either neutrally bouyant(NBST) or surface tethered(STT)\
**Epoch:** Unit of ~8day deployment cycle. Consecutive in time, Epoch 1 then Epoch 2 then Epoch 3

# .csv files

/EXPORTS_Gel_Fluxes_115x_25x_7x.csv
      -cell fluxes from all magnifications Source: A. Bodel

/EXPORTS_Gel_Fluxes Uncertainties 115x_25x_7x_.csv
        -cell flux uncertainties(based on counting uncertainty) Source: A. Bodel

/EXPORTS_Carbon_per_Cell_.csv
      Estimation of amount of POC per cell for each organism found in gels
      **V_um3  Volume in cubic micrometers: Average Simulated Biovolume of each organism (See /Extended methods)**
      **pgC    picograms of carbon: Estimated value (See /Extended methods)**
      **ugC    micrograms of carbon:**
      Source: A. Bodel

/functional_group_fluxes.csv
      -fluxes of cells grouped together by major taxonomic functional groups, Source: A. Bodel

/From_colleen_All_EXPORTS_flux_summmed_by_Trap_csv.csv
      -fluxes of different particle types. Source: Colleen Durkin

# .png files

/cells_in_gels.png  Unpublished © 2020 A. Bodel

/mechanisms.png Unpublished © 2020 A. Bodel

/EXPORTS_pathways.png  © 2017 DK Steinberg