Synoptic CB: Porewater DIC

2022-2024 Samples

2025-10-25

Contents

0.1 Grab Each Year's All Data Files 1
0.2 Write out files 2
0.3 Visualize Data by Plot 2
0.4 Summarized data for Site and Zone 2
0.5 Summarized data for Depth, Site and Zone 3
0.6 Boxplot summary 4

0.1 Grab Each Year's All Data Files

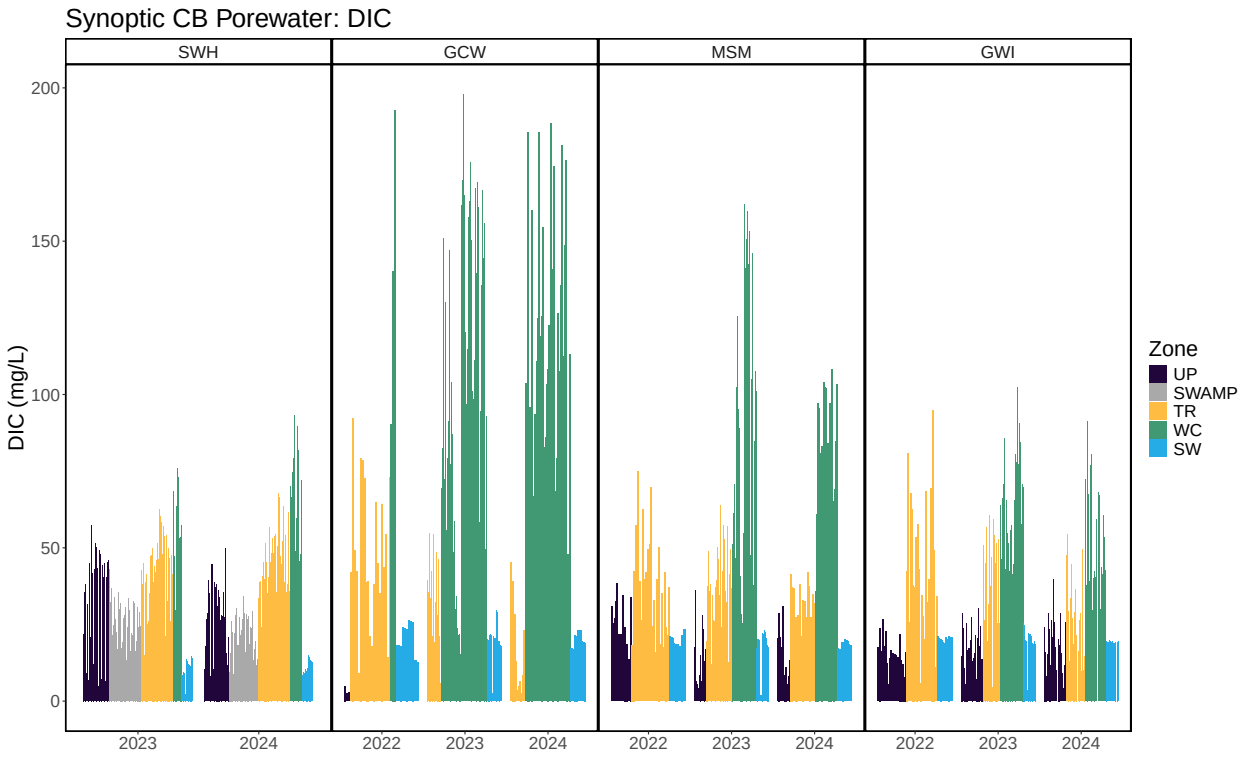
```
#read in 2022 Dionex Data:
dat22 <- read.csv("2022/COMPASS_SynopticCB_PW_DIC_2022.csv")
# head(dat22)

#read in 2023 Dionex Data:
dat23 <- read.csv("2023/COMPASS_SynopticCB_PW_DIC_2023.csv")
# head(dat23)

#read in 2024 Dionex Data:
dat24 <- read.csv("2024/COMPASS_SynopticCB_PW_DIC_2024.csv")
# head(dat24)

all_dat <- rbind(dat22, dat23, dat24)

all_dat <- all_dat %>%
  select(
    Project, Region, Site, Zone, Replicate, Depth_cm,
         Sample_ID, Year, Month, Day, Time, Time_Zone,
         ic_mgL, ic_uM, ic_flag,
         Analysis_rundate,  Run_notes, Field_notes
        # list columns in the order you want them
  )
```

##Make Relevant Metadata Sheet

0.2 Write out files

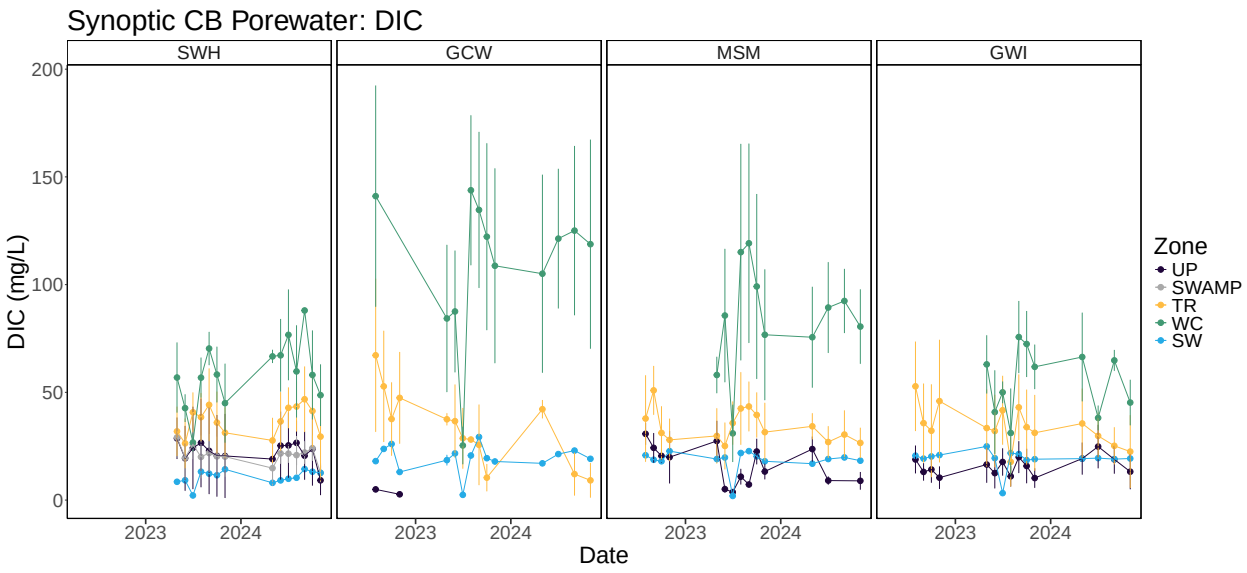
```
#write out a csv of all the data to the main folder:
write.csv(all_dat, "COMPASS_SynopticCB_PW_DIC_AllData.csv")


#write out a csv of the metadata associated with the data:
write.csv(metadat, "COMPASS_SynopticCB_PW_DIC_Metadata.csv")
```

0.3 Visualize Data by Plot



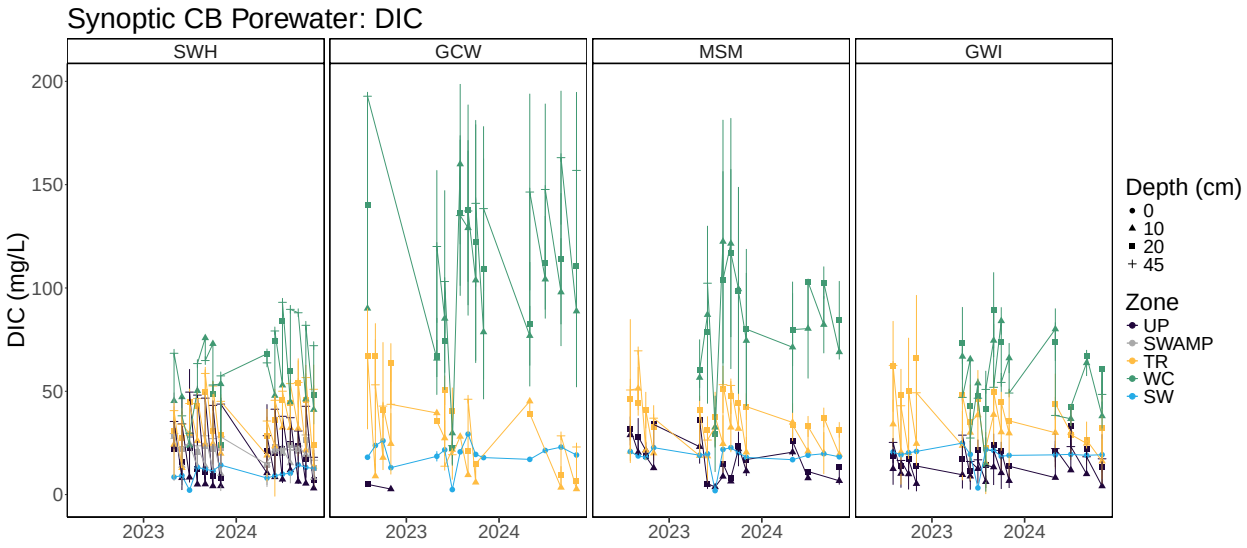
0.4 Summarized data for Site and Zone

```
## `summarise()` has grouped output by 'Month', 'Year', 'Site'. You can override
## using the `.groups` argument.
```



0.5 Summarized data for Depth, Site and Zone

```
## `summarise()` has grouped output by 'Month', 'Year', 'Site', 'Zone'. You can
## override using the `.groups` argument.
```



0.6 Boxplot summary