## **TUCPzoops**

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## Ecosystem impacts of the TUCP

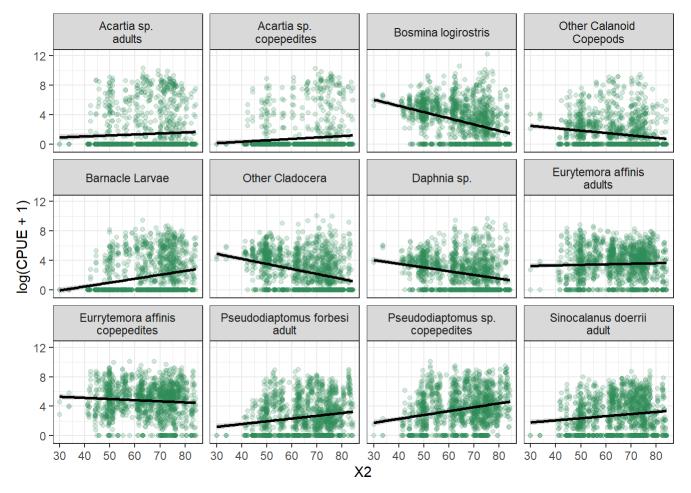
The 2023 TUCP is going to change X2 from March through May. Let's analyze the relationship between X2 and CPUE of the 12 most common zooplankton taxa caught by EMP from 1995-2021

```
zoops = Zoopsynther(Data_type = 'Community', Sources = "EMP", Size_class = c("Meso", "Macro"))
```

```
## [1] "No disclaimers here! Enjoy the clean data!"
```

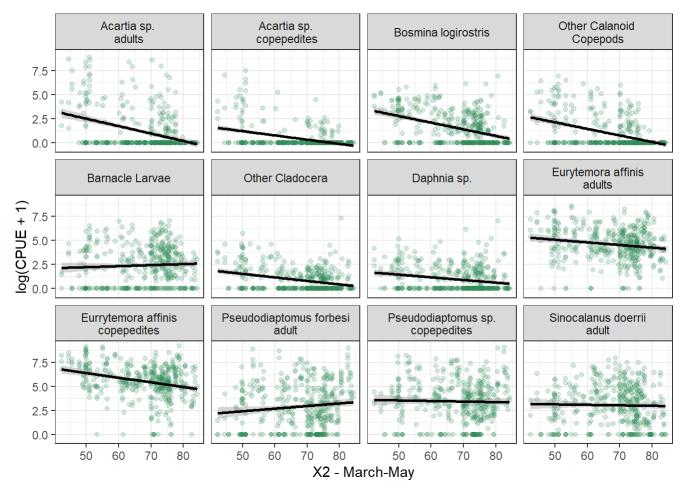
```
## Joining, by = "Date"
```

```
## `geom_smooth()` using formula = 'y ~ x'
```



Now let's filter it to just the low salinity zone

## `geom\_smooth()` using formula = 'y ~ x'



It might be easier to show annual averages instead of all the points

```
#maybe annual averages?
Zoopan = group_by(zoops3, Taxa, Year) %>%
  summarize(CPUE = mean(CPUE), X2 = mean(X2))
```

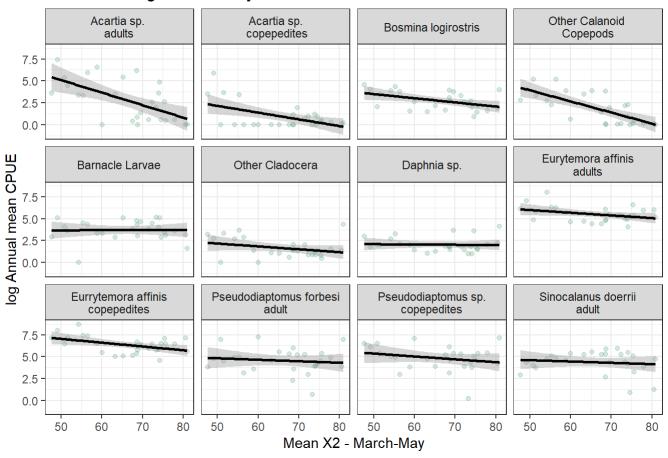
```
## `summarise()` has grouped output by 'Taxa'. You can override using the
## `.groups` argument.
```

```
ZoopanLSZ = group_by(zoopsLSZ, Taxa, Year) %>%
summarize(CPUE = mean(CPUE), X2 = mean(X2))
```

```
## `summarise()` has grouped output by 'Taxa'. You can override using the
## `.groups` argument.
```

## `geom\_smooth()` using formula = 'y ~ x'

## Annual Averages - entire system



## `geom\_smooth()` using formula = 'y ~ x'

## Annual Averages - LSZ

