Global SCOC database

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```
knitr::opts_chunk$set(echo = TRUE, warning=FALSE, message=FALSE)
```

Loading SCOC dataset

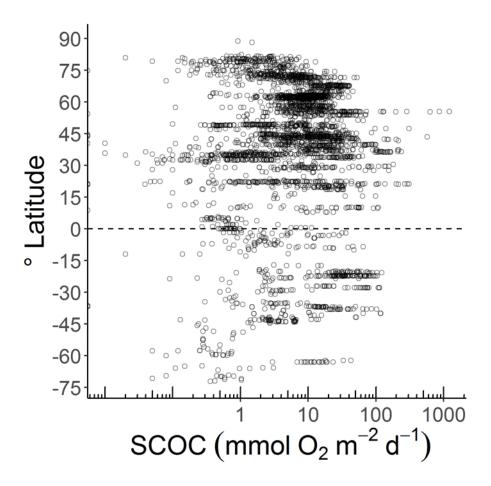
```
setwd("C:/Users/TanjaS/Documents/paper/Paper 3_Global dataset of SCOC/data an
alysis")
SCOC_data = read.csv("SCOC database.csv") # read csv file

require(ggplot2)
require(scales)
require(varhandle)
require(scales)
require(psych)
require(scales)

SCOC_data <- SCOC_data[c(1:3540), c(2:4, 6:9, 11, 16)]

cols <- c("Ocean", "Latitude", "Longitude", "Depth", "Depth_range", "SCOC", "e
x_in_situ", "TOU_DOU", "Reference")
colnames(SCOC_data) <- cols</pre>
```

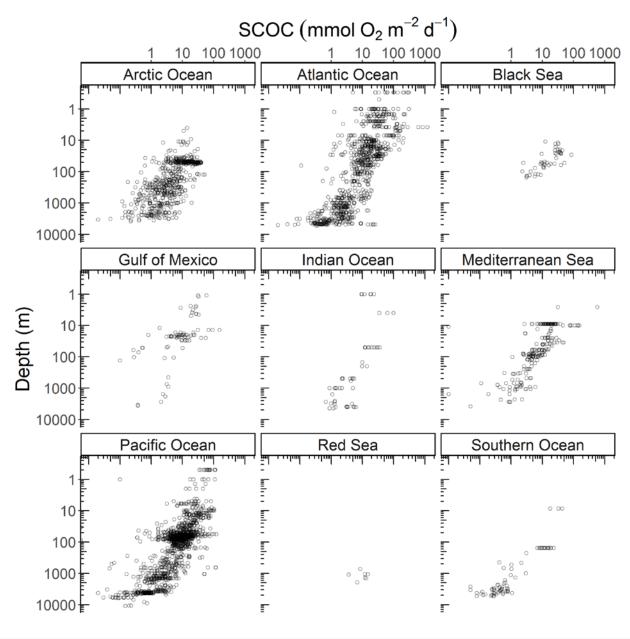
Preparing figure 3: SCOC along a latitudinal gradient



```
ggsave(file="Figure 3.png", width=5,height=5)
ggsave("Figure 3.pdf", width=5,height=5)
```

Preparing figure 4: SCOC along a depth gradient

```
theme(axis.text.x = element_text(vjust=0.5, size=15)) +
theme(axis.text.y = element_text(vjust=0.5, size=15)) +
theme(text = element_text(size=20)) + annotation_logticks(sides = "tl") +
theme(legend.title = element_blank()) + guides(col = guide_legend(nrow=3))
+
theme(legend.position = "none") + theme(plot.margin=unit(c(0.5,0.5,0.5,0.5))
, "cm")) + facet_wrap(~ Ocean, ncol=3)
```



```
ggsave(file="Figure 4.png", width=9,height=9)
ggsave(file="Figure 4.pdf", width=9,height=9)
```