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*Supplement of*

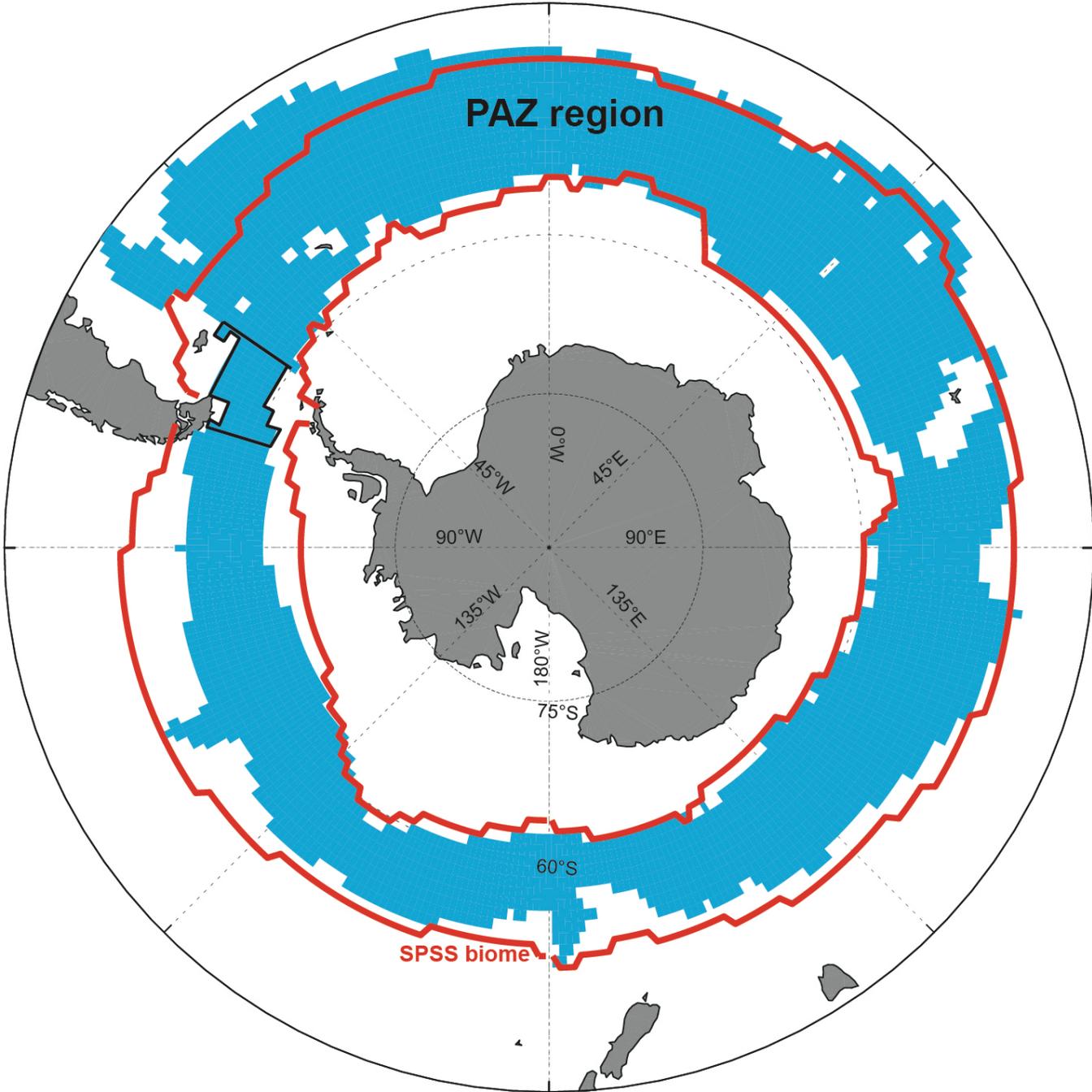
## **Utilizing the Drake Passage Time-series to understand variability and change in subpolar Southern Ocean $p\text{CO}_2$**

**Amanda R. Fay et al.**

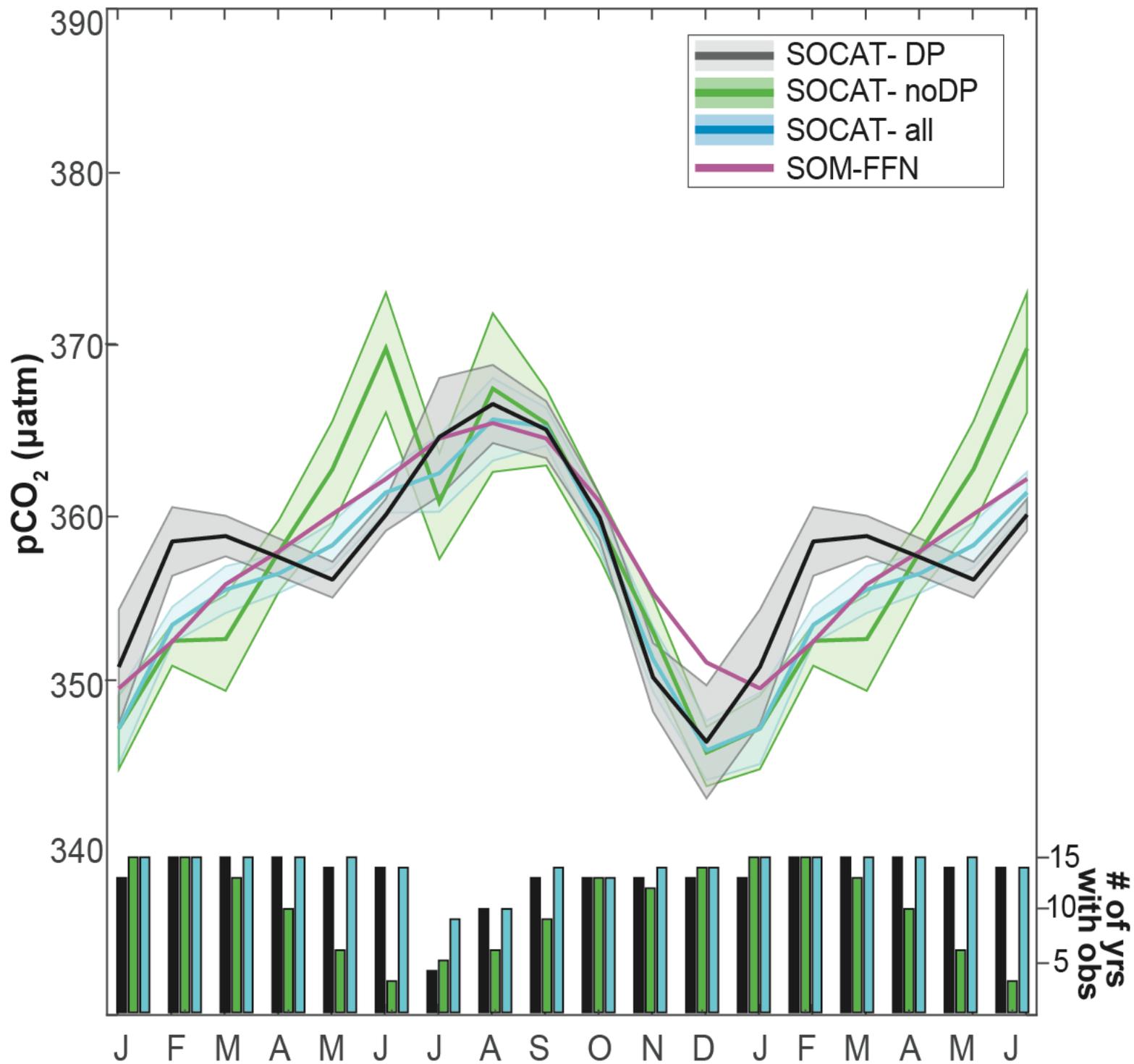
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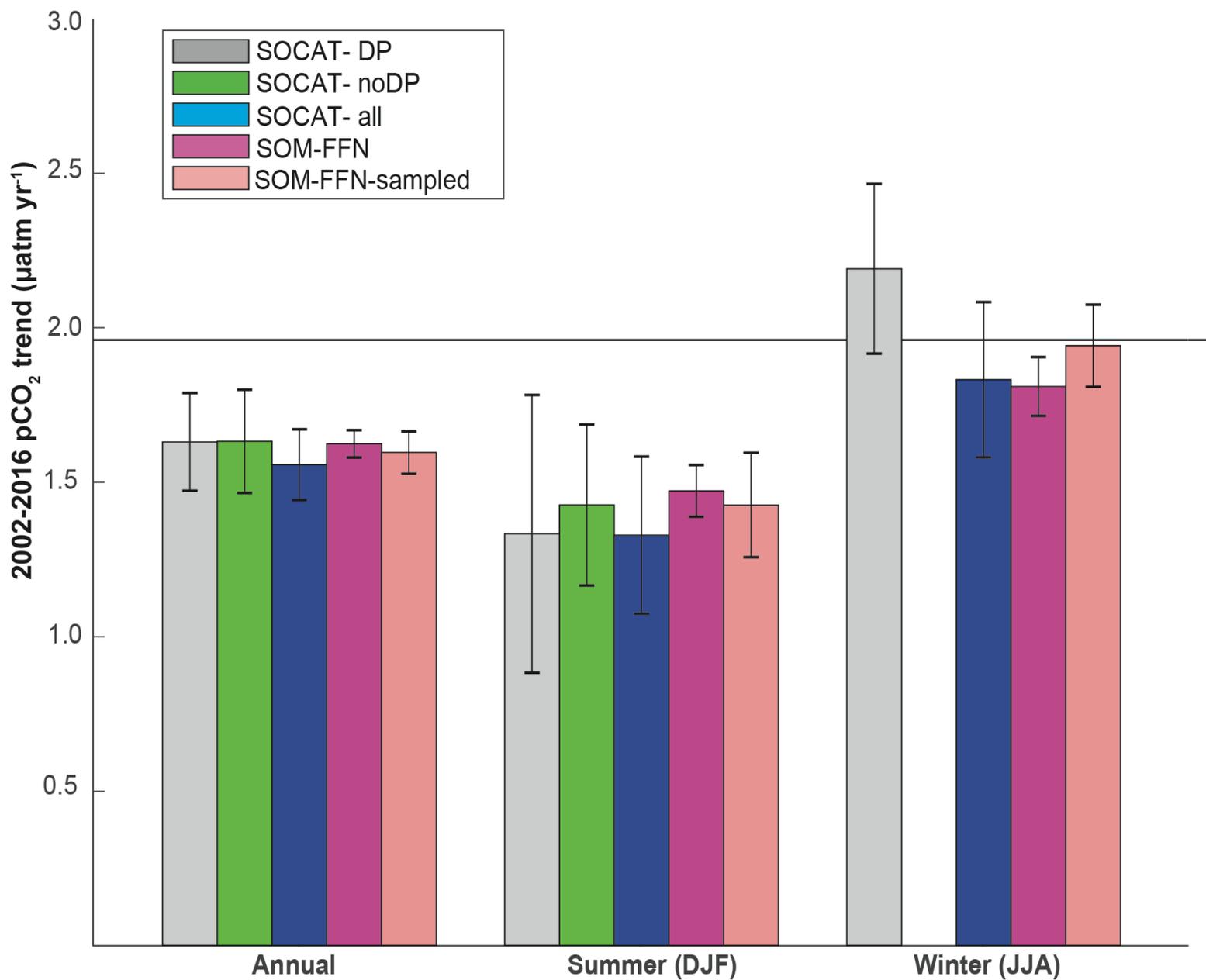
Supplementary Figure 1



# Supplementary Figure 2



**Supplementary Figure 3**



### SPSS Trends

	Annual	DJF (summer)	JJA (winter)
SOCAT-DP	1.38 ± 0.16	1.04 ± 0.41	1.96 ± 0.31
SOCAT-noDP	1.59 ± 0.16	1.44 ± 0.25	
SOCAT-all	1.44 ± 0.12	1.23 ± 0.22	1.80 ± 0.26
SOM-FFN	1.65 ± 0.04	1.46 ± 0.08	1.87 ± 0.09
SOM-FFN sampled	1.41 ± 0.09	1.33 ± 0.18	1.86 ± 0.26

### PAZ Trends

	Annual	DJF (summer)	JJA (winter)
SOCAT-DP	1.63 ± 0.16	1.33 ± 0.45	2.19 ± 0.28
SOCAT-noDP	1.63 ± 0.17	1.43 ± 0.26	
SOCAT-all	1.56 ± 1.11	1.33 ± 0.25	1.83 ± 0.25
SOM-FFN	1.62 ± 0.04	1.47 ± 0.08	1.81 ± 0.10
SOM-FFN sampled	1.60 ± 0.07	1.43 ± 0.17	1.94 ± 0.13