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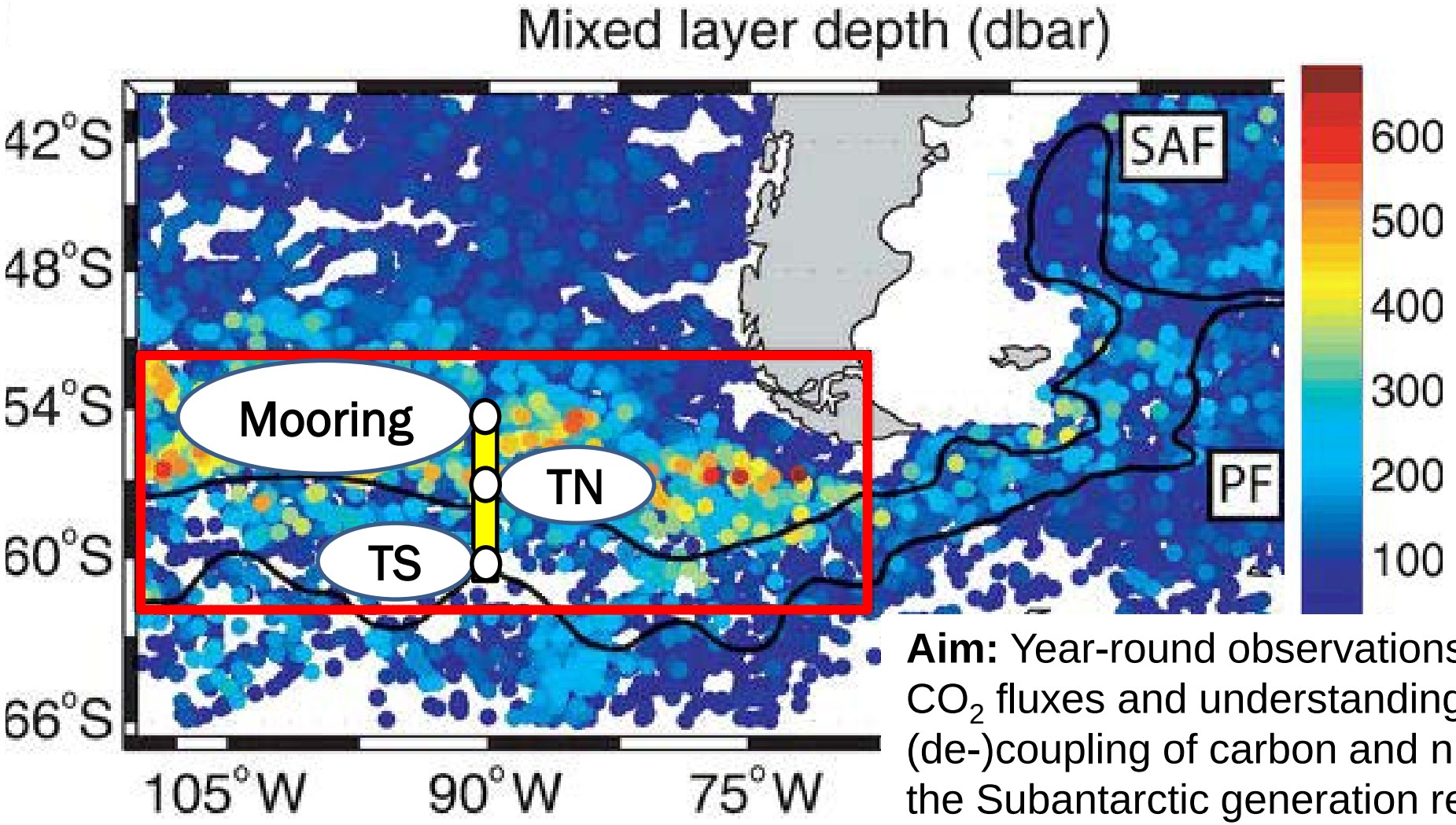
Carbon Uptake & Seasonal Traits of Antarctic Remineralisation Depth

WP 1 Seasonal air-sea CO_2 fluxes and macronutrient uptake



(Holte and Talley, 2009 JAOTech)

Aim: Year-round observations, air-sea CO_2 fluxes and understanding of seasonal (de-)coupling of carbon and nutrients for the Subantarctic generation region of the Pacific.

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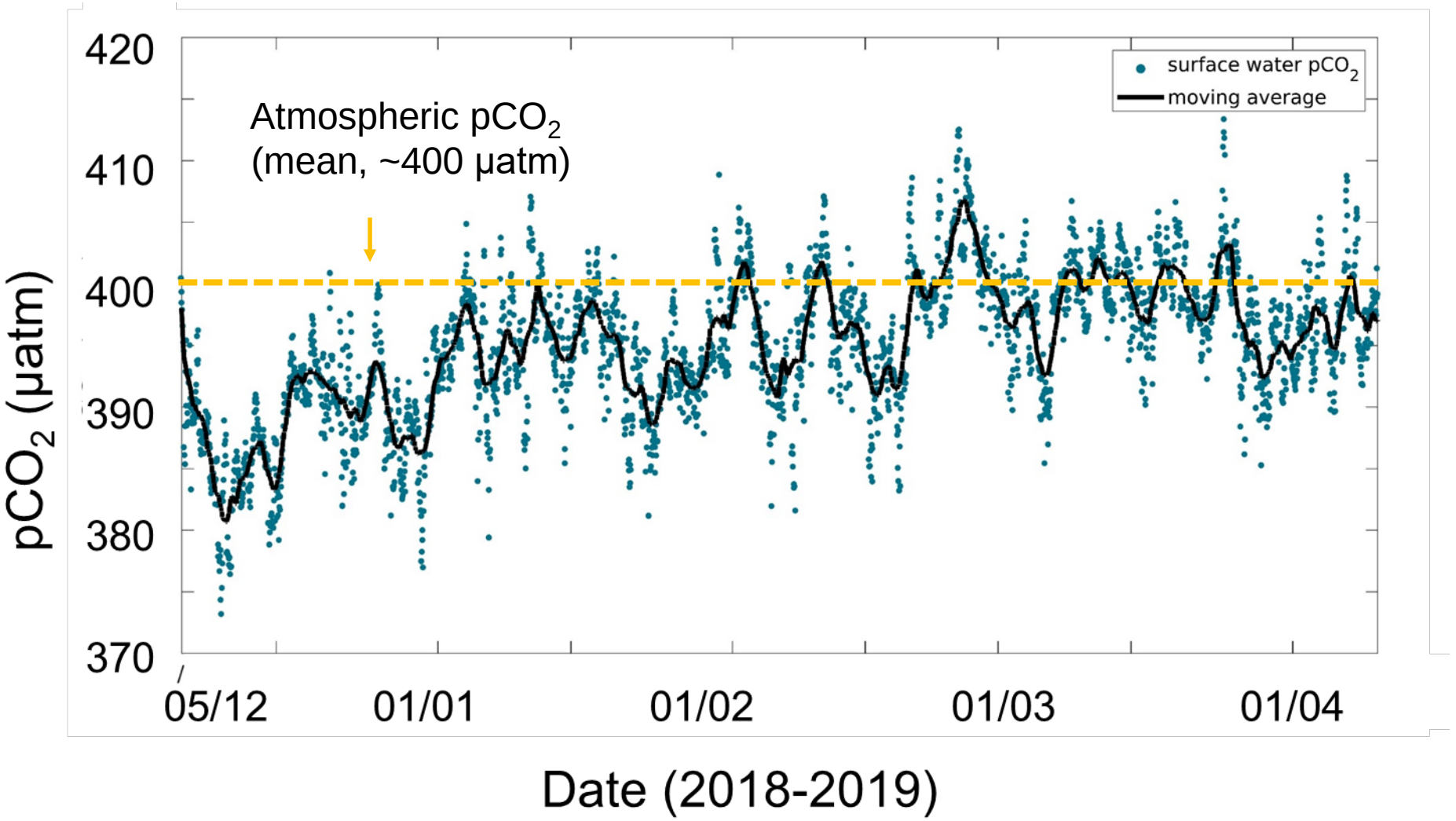

Preliminary surface water pCO_2 from the mooring, by Pablo Trucco Pignata

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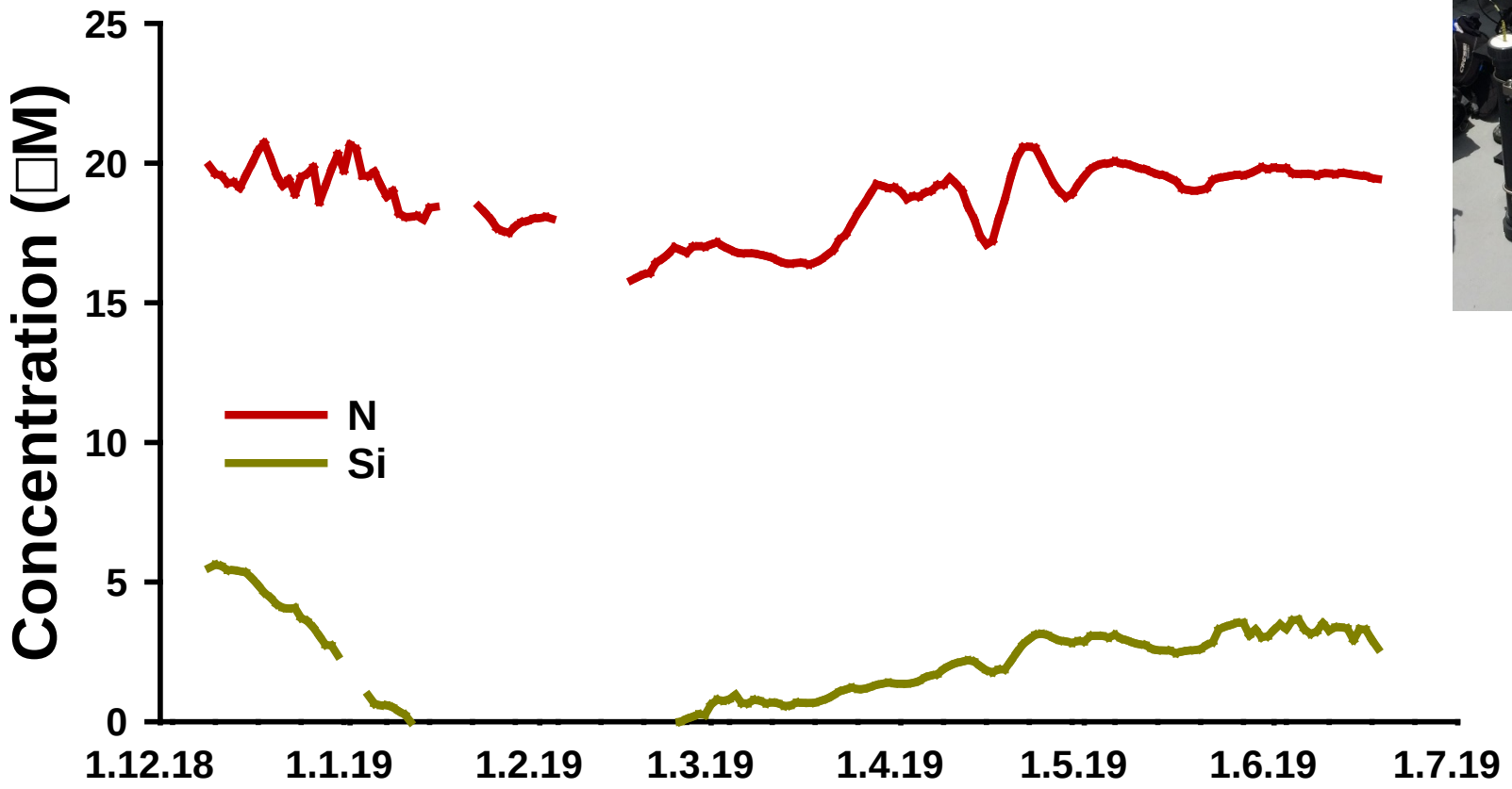

Preliminary nutrient values, 12 m depth from the mooring, figure by Antony Birchill

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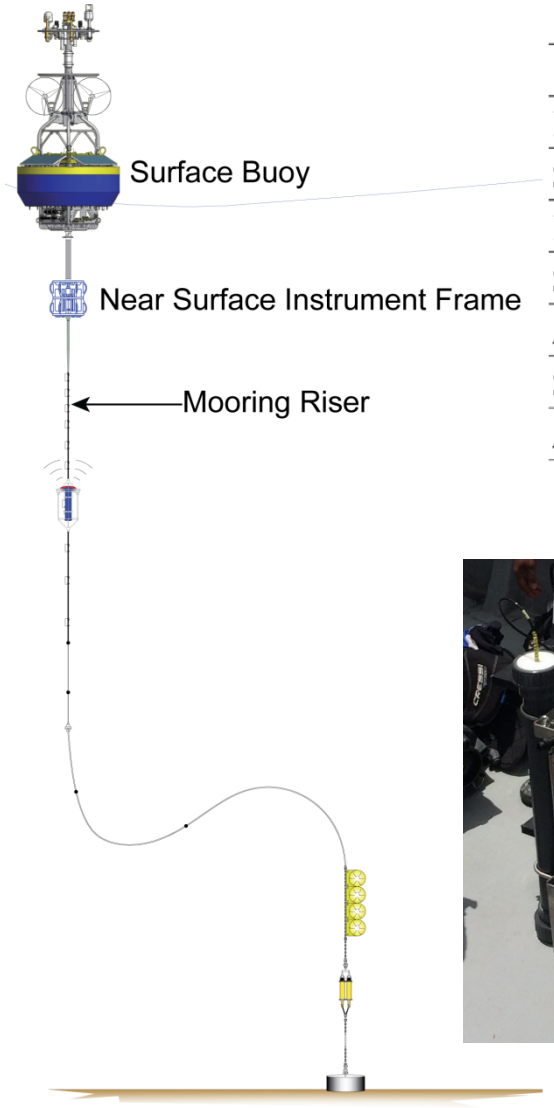

1-year mooring	Depth (m)	OOI	CUSTARD
Pro-Oceanus CO2-Pro	0	$pCO_{2water\ \&\ air}$	$pCO_{2water\ \&\ air}$
Sea-Bird SUNA	0, 12	NO_3^-	-
NOC sensors	12	-	NO_3^- & SiO_4^{4-}
Sunburst SAMI-CO2	12, 40, 80, 130	pCO_2	-
Anderaa optode 4831	12, 40, 80, 130	O_2	-
Sunburst SAMI-pH	20, 100	pH	-
Anderaa O_2 on 2 gliders	0-1000	-	O_2

1-year mooring:
late 2018 (DY096) - early 2020 (DY112)