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*Supplement of*

## **Untangling causality in midlatitude aerosol–cloud adjustments**

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Table S1 As in table 1 of main text, except level where nudging to horizontal winds starts is noted.

Model label	Description	Scavenging	Radiation $N_d$ [ $\text{cm}^{-3}$ ]	Settling $N_d$ [ $\text{cm}^{-3}$ ]	Autoconversion $N_d$ [ $\text{cm}^{-3}$ ]	Emissions	Nudging starts at
u-bo320	Control	UM	~	~	~	PD	27
u-bo321	PI	UM	~	~	~	PI	27
u-bo322	Scavenging-only	UM	75	75	75	PD	27
u-bo318	Control	ECHAM	~	~	~	PD	27
u-bo317	PI	ECHAM	~	~	~	PI	27
u-bo319	Scavenging-only	ECHAM	75	75	75	PD	27
u-bi410	Control	UM	~	~	~	PD	None
u-bi409	PI	UM	~	~	~	PI	None
u-bi674	Scavenging-only	UM	75	75	75	PD	None

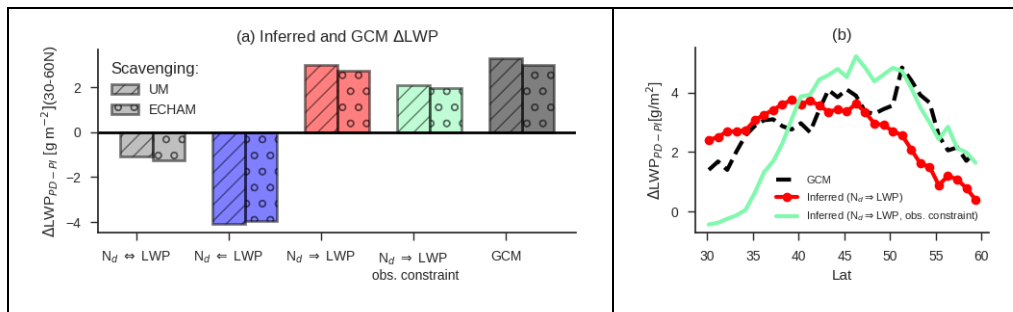


Fig. S 1 As in Fig.9 of the main text, but for models with nudging starting at model level 27.

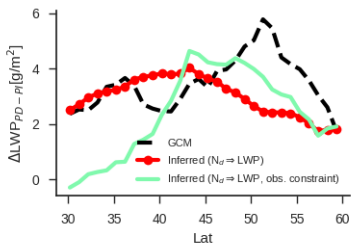


Fig. S 2 as in Fig. 9b of main text, but without nudging.