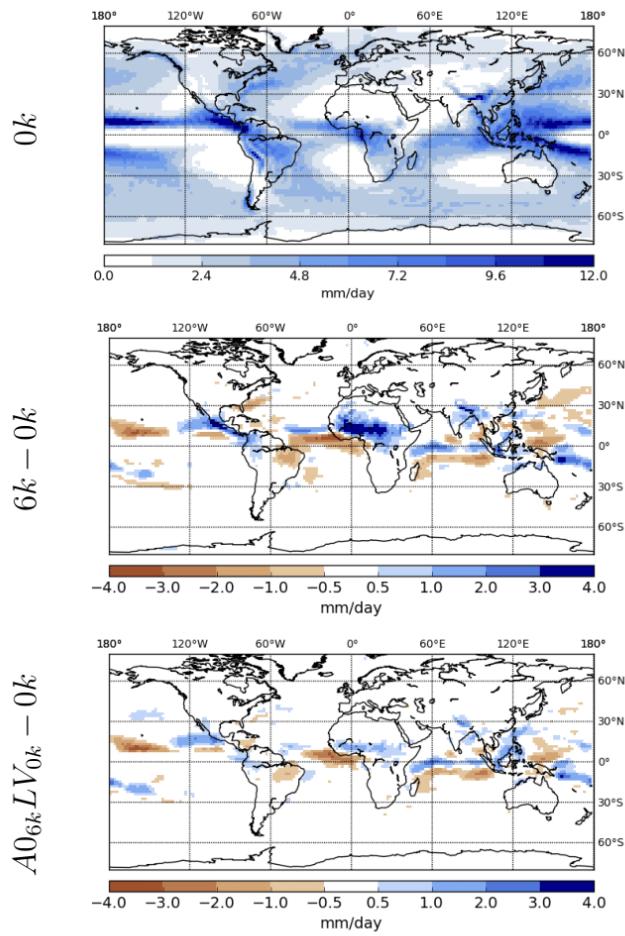
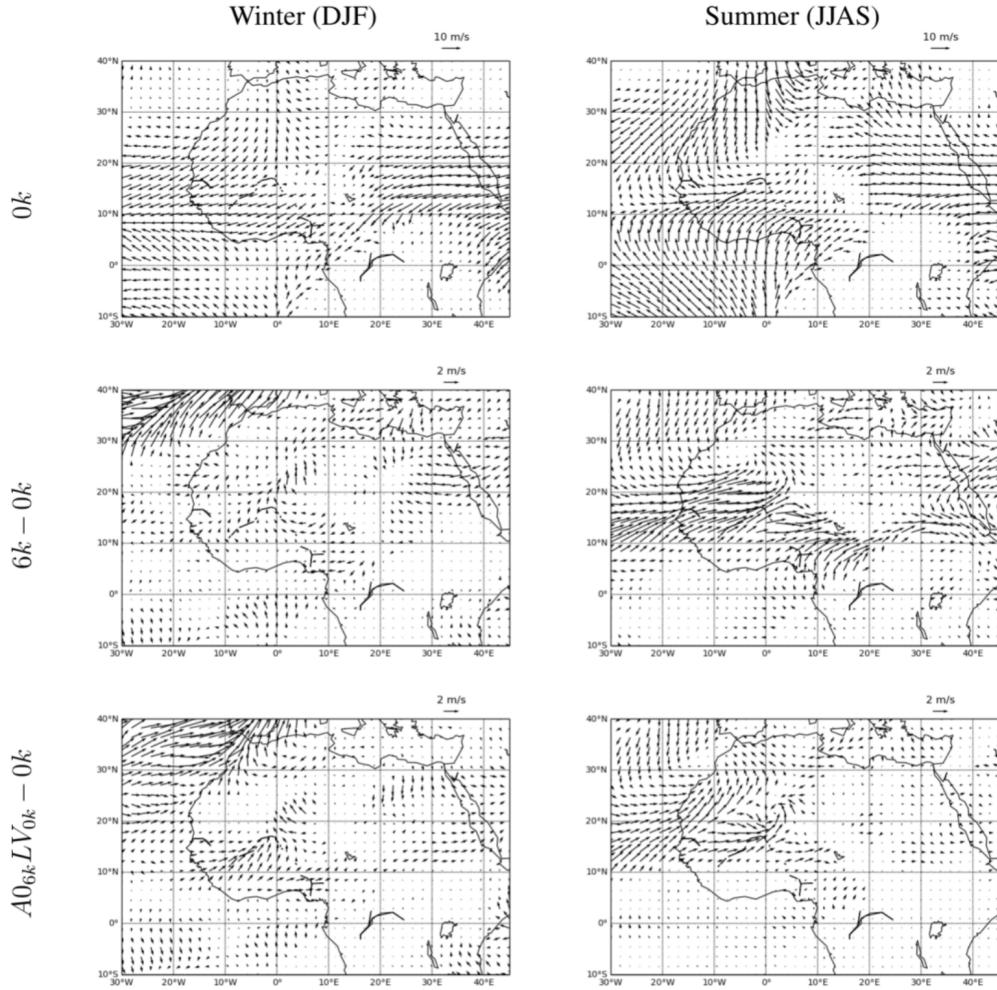


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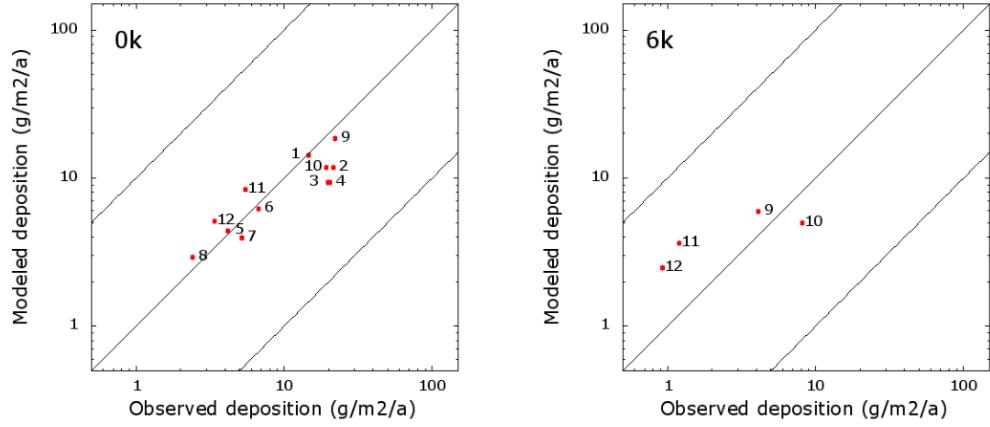
**Figure 1.** Mean annual precipitation for  $0k$  and for the differences  $6k - 0k$  and  $A0_{6k}LV_{0k} - 0k$ .



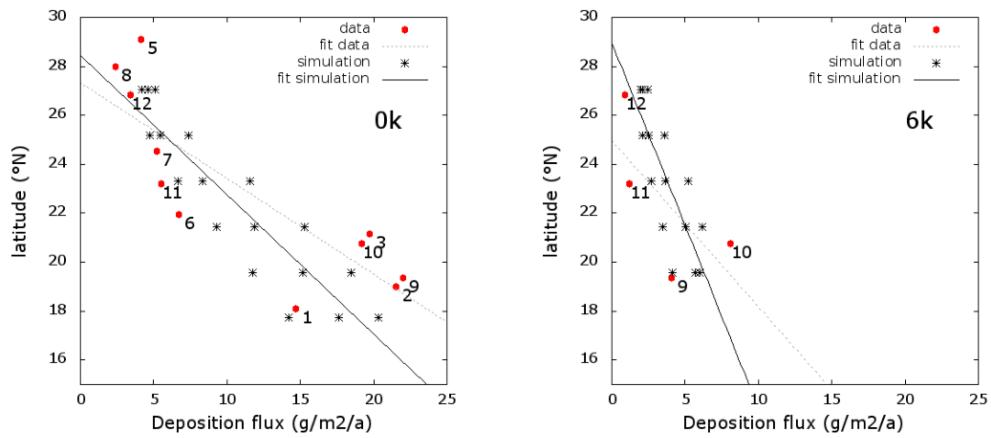
**Figure 2.** Simulated 10m surface wind speed and directions for winter (DJF; left) and summer (JJAS; right) for  $0k$  and for the differences  $6k - 0k$  and  $A0_{6k} LV_{0k} - 0k$ .

Marine sediment records						
No	Site	lat [ $^{\circ}\text{N}$ ]	lon [ $^{\circ}\text{E}$ ]	Acc. flux [ $\text{gm}^{-2}\text{a}^{-1}$ ]		Reference
				$0k$	$6k$	
10	ODP 658C	20.75	-18.58	19.2	8.1	Adkins et al. (2006)

**Table 1.** Dust accumulation fluxes obtained from marine sediment cores close to the northwest African margin for  $0k$  and  $6k$ .



**Figure 3.** Simulated dust deposition flux for 0k (left,  $AO_{0k}LV_{0k}$ ) and 6k (right,  $AO_{6k}LV_{6k}$ ) compared with data from marine sediment cores (Table 1). Log correlation coefficients are: 0.89 (0k) and 0.85 (6k).



**Figure 4.** Simulated dust deposition flux for the three ocean grid cells that are closest to the northwest African margin for 0k (left) and 6k (right) at different latitudes compared with data from marine sediment cores (Table 1). The straight lines are linear interpolations obtained with the least square method.