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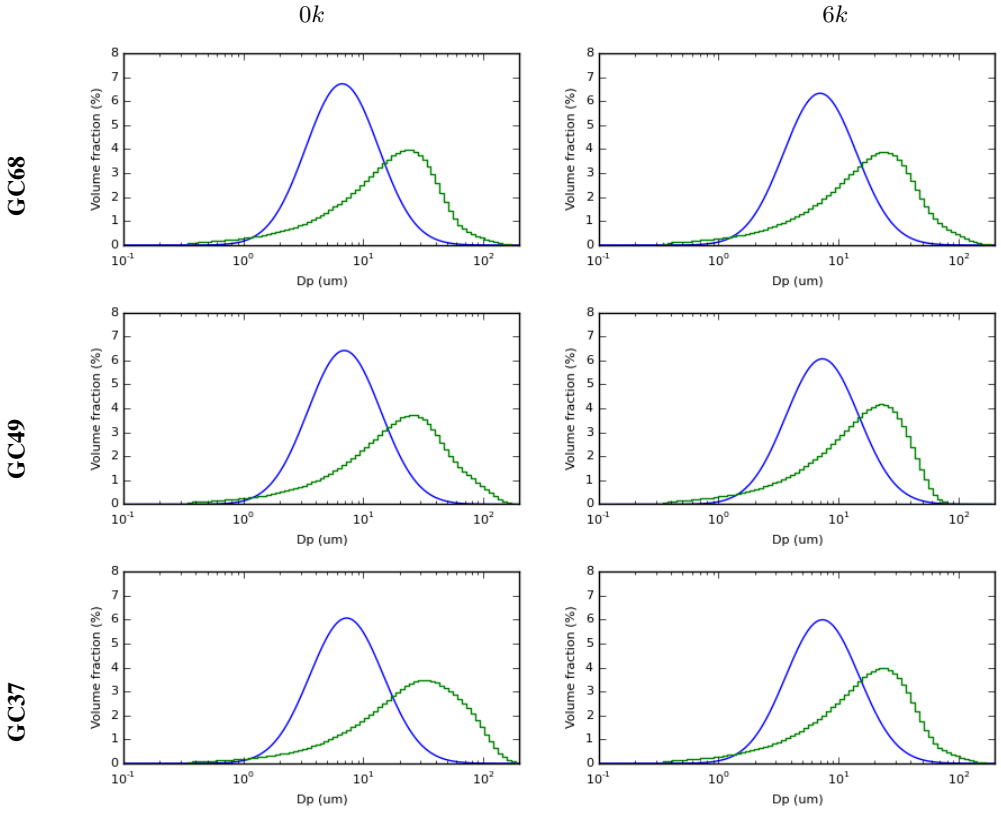

Figure 1. Simulated aerosol size distribution for 0k (left column) and 6k (right column) at the position of marine cores GC68 (top), GC 49 (middle) and GC37 (bottom) (blue line) and observed dust size distribution of Albani et al. (2015) (green line).

	$0k$	$6k$
GC68	6.66	7.04
GC49	6.94	7.17
GC37	7.24	7.34
sahara	6.30	6.05
source	5.96	6.22

Table 1. Median diameter in $[\mu m]$ for 0k and 6k at the position of marine sediment cores, in the western Sahara and in a source region (compare (Mahowald et al., 2014) for site locations).

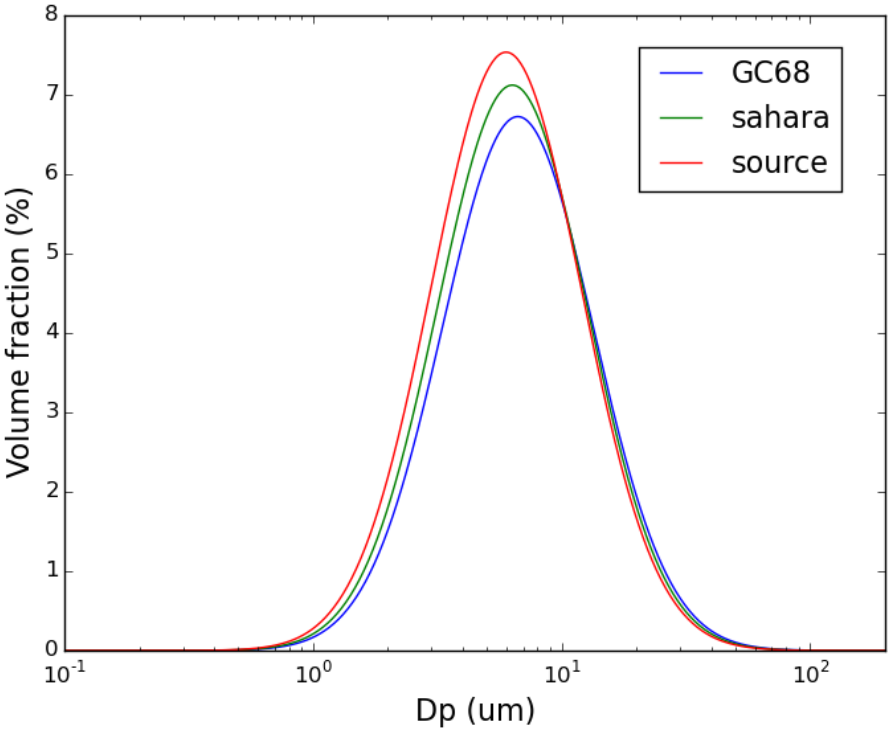

Figure 2. Simulated aerosol size distribution at position of marine core GC68, in the western Sahara and in a source region (compare (Mahowald et al., 2014) for site locations).

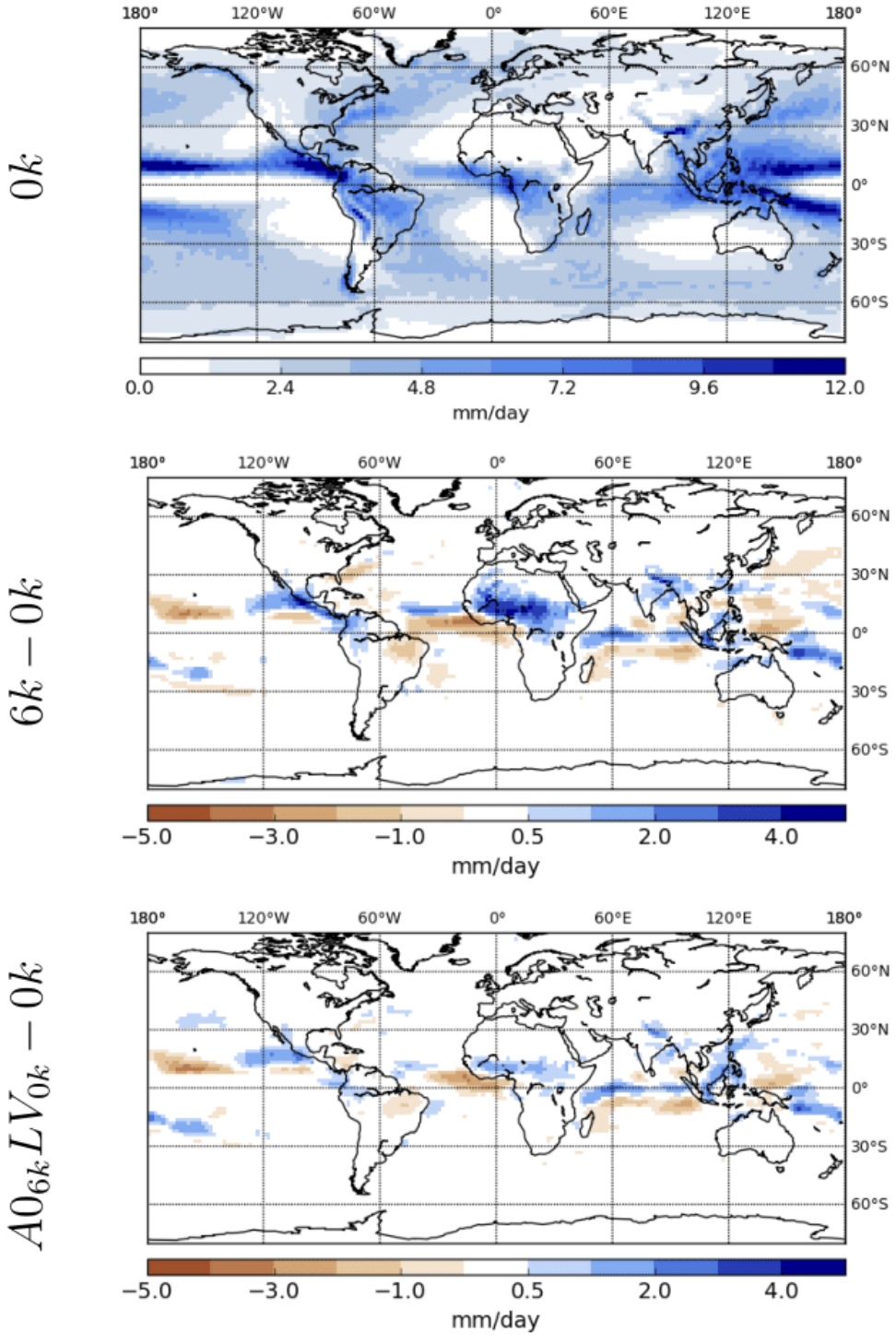

Figure 3. Mean annual precipitation for $0k$ and for the differences $6k - 0k$ and $A0_{6k}LV_{0k} - 0k$.

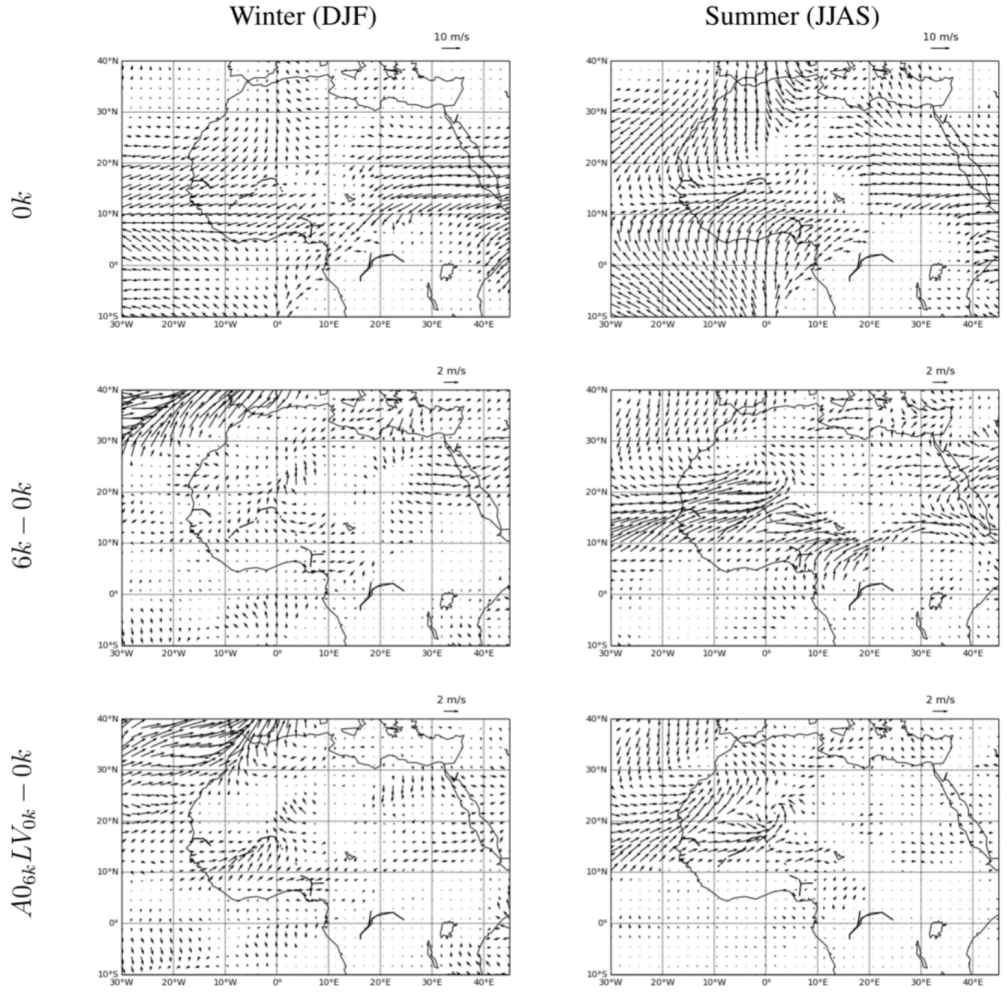

Figure 4. Simulated 10m surface wind speed and directions for winter (DJF; left) and summer (JJAS; right) for $0k$ and for the differences $6k - 0k$ and $A0_{6k}LV_{0k} - 0k$.