

The impact of assimilating Aeolus remote sensing wind data on regional aeolian dust: The case of October 2020

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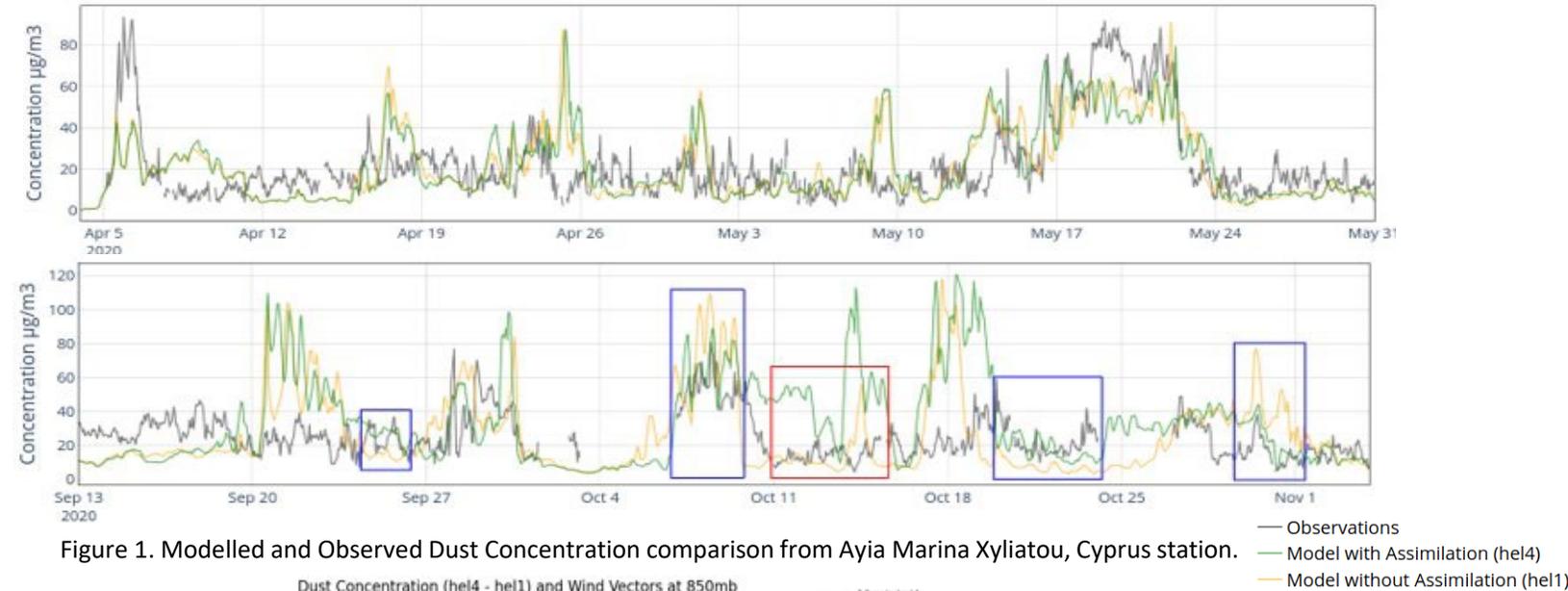


Figure 1. Modelled and Observed Dust Concentration comparison from Ayia Marina Xyliatou, Cyprus station.

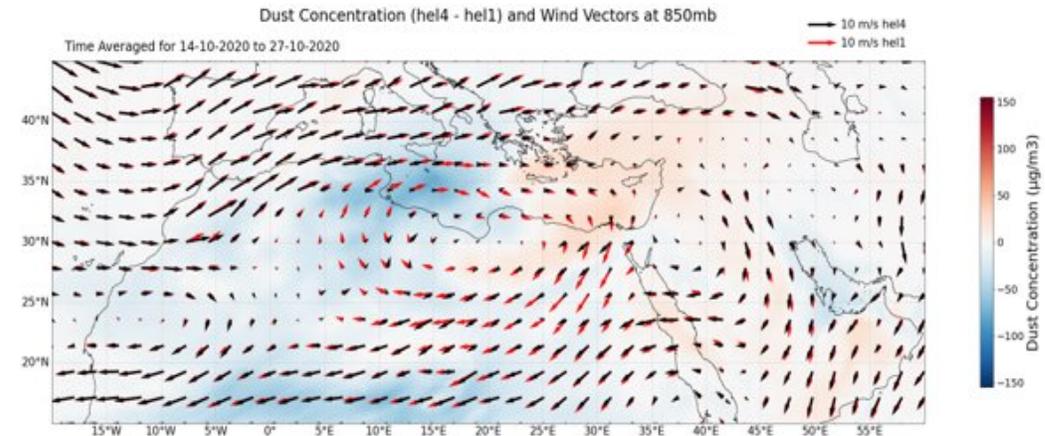
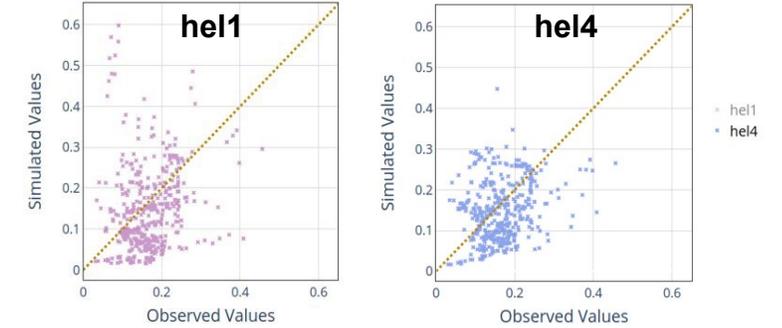


Figure 3. Simulated Dust Concentration and Wind Vector Differences (hel4-hel1).



AERONET observed values compared to simulated values	STD	NRMSE	MB	NMB	r
hel1	0.1	1.596	-0.03	-0.168	0.738
hel4	0.1	1.476	-0.028	-0.157	0.658

Figure 2. Aerosol Optical Depth scatter plot of observations from Ayia Marina Xyliatou, Cyprus versus simulated values.

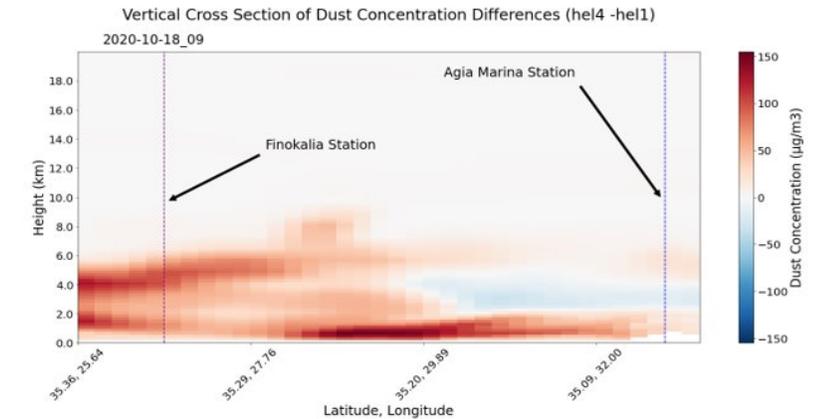


Figure 4. Vertical Cross Section of Dust Concentration Differences.