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Supplement of

Impact of black carbon aerosol over Italian basin valleys: high-resolution measurements along vertical profiles, radiative forcing and heating rate

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Site/Aerosol parameter	TERNI		MILANO		MERANO	
	CV (%) BMH	CV (%) AMH	CV (%) BMH	CV (%) AMH	CV (%) BMH	CV (%) AMH
BC	12.8	23.0	21.1	25.4	14.2	15.5
Aerosol Conc	8.7	14.3	15.0	14.9	13.5	18.3
b_{abs} (675 nm)	18.2	22.6	22.4	27.8	13.6	15.6
b_{sca} (675 nm)	11.9	20.9	26.1	23.1	16.0	19.1
b_{ext} (675 nm)	13.4	21.2	25.4	23.6	15.5	18.5

Table S1. Coefficients of variation calculated both BMH and AMH over TR, MI and ME for: Black Carbon (BC), total aerosol concentration (Aerosol Conc), absorption coefficient at 675 nm (b_{abs}), scattering coefficient at 675 nm (b_{sca}) and extinction coefficient at 675 nm (b_{ext}).

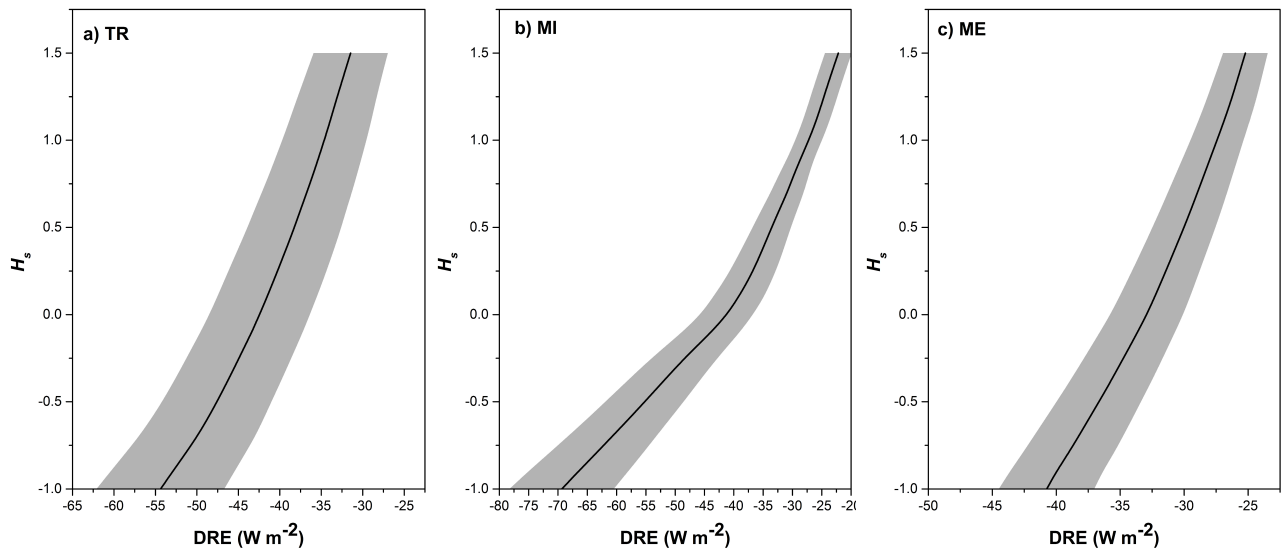


Figure S1. Continuous vertical profiles of the aerosol DRE over TR (a), MI (b) and ME (c).