



Supplement of

Investigating an indirect aviation effect on mid-latitude cirrus clouds – linking lidar-derived optical properties to in situ measurements

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The significance test was done with the Mann-whitney U test method. This method is a non-parametric test for unpaired samples with no assumptions of their distributions (different from Student T test).

$P=1$ means the two datasets are identical and $p < 5\%$ ($h=1$) indicates both datasets are significantly different

Results:

Comparison D_{eff} of 26 March and 7 April 2014: $p = 0.0027346$, $h=1$

Comparison N_{par} of 26 March and 7 April 2014: $p = 0.0$, $h=1$

Comparison D_{eff} of 26 March and 7 April 2014: $p = 0.0$, $h=1$

Comparison N_{par} of 26 March and 7 April 2014: $p = 0.11445$, $h=1$

Comparison D_{eff} all: $p=0.21896$, $h=1$

Compariosn N_{par} all: $p=0.055504$, $h=1$

Comparison D_{eff} T = [210-215]: $p=5.68e^{-6}$, $h=1$

Compariosn N_{par} T = [210-215]: $p=4.37e^{-8}$, $h=1$

Temperature/K	p-value for D_{eff}	p-value for N_{par}
208	0.000089346771183	0.203500586807082
209	0.000000000079685	0.000000000007271
210	0.247314327354255	0.000000398791608
211	0.000147928141202	0
212	0.004225973629796	0.125582277030740
213	0.399044916857030	0.079586093204909
214	0.175375892497683	0.160126851351188
215	0.466861486969759	0.020467446677696
216	0.381986850641420	0.223630929883747
217	0.436158517018589	0.460791042628778