

Method	Study 1	Study 2	Study 3	Study 4: entire data (studies 1-3)
RFE	vconst_corr vconst_2 vertical_decay_scale	vconst_corr vconst_2 vconst_4	vconst_corr vconst_2 bckgrnd_vdc1	vconst_corr vconst_2 convect_corr
ACV	vconst_corr vconst_2 vertical_decay_scale	vconst_corr vconst_2 <b>vconst_5</b>	vconst_corr vconst_2 <b>bckgrnd_vdc1</b>	vconst_corr vconst_2 convect_corr

Table 3: Logistic regression feature ranking- recursive feature elimination vs. absolute coefficient value;  
parameters influencing climate model success in bold

Method	Study 1	Study 2	Study 3	Study 4: entire data (studies 1-3)
RFE	vconst_corr vconst_2 vertical_decay_scale	vconst_corr vconst_2 vconst_5	vconst_corr vconst_2 bckgrnd_vdc1	vconst_corr vconst_2 bckgrnd_vdc1
ACV	vconst_corr vconst_2 vertical_decay_scale	vconst_corr vconst_2 <b>vconst_4</b>	vconst_corr <b>bckgrnd_vdc1</b> vconst_2	vconst_corr vconst_2 convect_corr

Table 4: Linear support vector machines feature ranking- recursive feature elimination vs. absolute coefficient value;  
parameters influencing climate model success in bold