Principal Components Analysis: NS quadratic

PC 1 (1.28e+11): $-0.965c_{\varphi G}$ $+0.233c_{\varphi WB}$ $+0.104c_{\varphi D}$ $-0.058c_{tG}$

PC 2 (1.91e+07): $-0.728c_{tG}$ $-0.399c_{qq}^{1,8}$ $-0.342c_{qt}^{8}$ $-0.312c_{ut}^{8}$ $+0.164c_{qu}^{1}$ $-0.140c_{dt}^{8}$ $+0.139c_{qt}^{1}$ $-0.104c_{qq}^{1,1}$ $-0.064c_{qu}^{8}$ $-0.063c_{ut}^{1}$ $+0.060c_{qd}^{1}$ $-0.045c_{dt}^{1}$ $+0.044c_{\varphi G}$ $-0.039c_{qq}^{8,3}$ $-0.038c_{qq}^{1,3}$ $-0.019c_{qd}^{8}$

PC 3 (1.05e+07): $-0.888c_{\varphi WB}$ $-0.380c_{\varphi D}$ $-0.255c_{\varphi G}$ $-0.041c_{WWW}$ $+0.015c_{\varphi B}$ $-0.012c_{tG}$

PC 4 (8.83e+05): $-0.668c_{qq}^{1,8}$ $+0.459c_{qt}^{8}$ $+0.299c_{qu}^{8}$ $-0.287c_{ut}^{8}$ $+0.234c_{tG}$ $-0.184c_{qt}^{1}$ $-0.135c_{qq}^{8,3}$ $-0.128c_{dt}^{8}$ $-0.127c_{qu}^{1}$ $-0.103c_{qq}^{1,1}$ $-0.088c_{ut}^{1}$ $+0.077c_{qd}^{8}$ $-0.062c_{qd}^{1}$ $-0.038c_{dt}^{1}$ $-0.037c_{qq}^{1,3}$ $-0.014c_{\varphi G}$

PC 5 (2.87e+05): $-0.929c_{\varphi B}$ $-0.286c_{\varphi W}$ $-0.192c_{\varphi D}$ $+0.085c_{b\varphi}$ $+0.067c_{\varphi WB}$ $-0.056c_{tW}$ $+0.050c_{tZ}$ $+0.027c_{c\varphi}$ $-0.020c_{WWW}$ $+0.017c_{\tau\varphi}$

PC 6 (2.47e+05): $-0.611c_{tG}$ $+0.590c_{qt}^{8}$ $+0.296c_{qq}^{1,8}$ $-0.275c_{qu}^{1}$ $-0.199c_{qq}^{8,3}$ $-0.196c_{qt}^{1}$ $+0.164c_{ut}^{8}$ $-0.069c_{qd}^{1}$ $+0.066c_{qu}^{8}$ $+0.035c_{\varphi G}$ $+0.023c_{dt}^{8}$ $+0.019c_{dt}^{1}$ $-0.015c_{qd}^{8}$ $+0.013c_{\varphi B}$ $+0.013c_{WWW}$ $-0.011c_{qq}^{1,3}$

PC 7 (1.16e+05): $-0.600c_{ut}^{8}$ $+0.482c_{qq}^{1,8}$ $+0.420c_{qd}^{8}$ $-0.302c_{qq}^{8,3}$ $-0.191c_{dt}^{8}$ $+0.166c_{qu}^{8}$ $-0.148c_{qt}^{8}$ $-0.146c_{qt}^{1}$ $-0.109c_{qq}^{1,1}$ $-0.096c_{qq}^{1,3}$ $+0.085c_{tG}$ $-0.055c_{ut}^{1}$ $-0.032c_{dt}^{1}$ $-0.016c_{qu}^{1}$ $-0.013c_{qd}^{1}$

PC 8 (5.89e+04): $+0.974c_{WWW}$ $-0.195c_{\varphi D}$ $-0.065c_{\varphi\Box}$ $+0.043c_{\varphi WB}$ $+0.042c_{qu}^{8}$ $+0.041c_{t\varphi}$ $+0.034c_{qq}^{8,3}$ $+0.033c_{qu}^{1}$ $+0.025c_{qt}^{1}$ $+0.020c_{qd}^{8}$ $+0.018c_{\varphi B}$ $+0.015c_{\varphi W}$ $-0.011c_{\varphi G}$ $+0.010c_{qd}^{1}$

PC 9 (1.21e+04): $+0.471c_{qq}^{1,1}$ $+0.413c_{qu}^{1}$ $+0.402c_{qt}^{1}$ $+0.369c_{qu}^{8}$ $+0.298c_{ut}^{1}$ $+0.266c_{qt}^{8}$ $+0.258c_{qd}^{8}$ $+0.162c_{qq}^{1,3}$ $+0.149c_{qd}^{1}$ $+0.100c_{dt}^{1}$ $+0.100c_{qq}^{8,3}$ $-0.081c_{tG}$ $-0.071c_{ut}^{8}$ $-0.045c_{WWW}$ $+0.033c_{qq}^{1,8}$ $-0.013c_{dt}^{8}$ $+0.012c_{\varphi D}$

PC 10 (8.61e+03): $+0.543c_{qt}^{1}$ $-0.420c_{qq}^{8,3}$ $-0.409c_{qd}^{8}$ $-0.398c_{qu}^{8}$ $+0.289c_{qt}^{8}$ $-0.253c_{ut}^{8}$ $+0.146c_{tG}$ $-0.100c_{dt}^{8}$ $-0.097c_{qq}^{1,1}$ $+0.085c_{qq}^{1,8}$ $+0.069c_{qu}^{1}$ $+0.039c_{dt}^{1}$ $+0.027c_{qd}^{1}$ $+0.021c_{WWW}$

PC 11 (5.20e+03): $-0.836c_{b\varphi}$ $+0.500c_{\tau\varphi}$ $-0.211c_{c\varphi}$ $-0.073c_{\varphi B}$ $-0.024c_{\varphi D}$ $+0.021c_{\varphi W}$ $+0.011c_{\varphi WB}$ $-0.010c_{WWW}$

PC 12 (3.36e+03): $-0.866c_{\tau\varphi}$ $-0.476c_{b\varphi}$ $-0.139c_{c\varphi}$ $-0.061c_{\varphi B}$ $-0.025c_{\varphi D}$ $+0.015c_{\varphi W}$ $+0.011c_{\varphi WB}$ $+0.011c_{\varphi\Box}$

PC 13 (9.15e+02): $-0.998c_{tW}$ $+0.052c_{\varphi B}$ $+0.016c_{\varphi W}$ $+0.011c_{\varphi D}$

PC 14 (4.77e+02): $-0.592c_{qq}^{8,3}$ $+0.456c_{qd}^{1}$ $+0.447c_{ut}^{8}$ $-0.353c_{dt}^{1}$ $+0.191c_{qu}^{1}$ $+0.153c_{qd}^{8}$ $-0.146c_{dt}^{8}$ $-0.103c_{qt}^{8}$ $-0.094c_{qt}^{1}$ $-0.092c_{qq}^{1,8}$ $+0.048c_{qq}^{1,3}$ $+0.047c_{qu}^{8}$ $+0.046c_{tG}$ $-0.024c_{qq}^{1,1}$ $-0.011c_{ut}^{1}$

PC 15 (4.11e+02): $+0.515c_{qq}^{1,1}$ $+0.448c_{ut}^{1}$ $-0.414c_{qu}^{8}$ $+0.296c_{qq}^{1,3}$ $-0.283c_{qt}^{1}$ $-0.229c_{qu}^{1}$ $-0.197c_{dt}^{1}$ $-0.178c_{ut}^{8}$ $-0.143c_{qd}^{1}$ $-0.134c_{qq}^{8,3}$ $-0.125c_{qq}^{1,8}$ $-0.082c_{dt}^{8}$ $-0.080c_{qt}^{8}$ $-0.046c_{\varphi D}$ $+0.036c_{WWW}$ $+0.022c_{qd}^{8}$ $+0.012c_{\varphi WB}$

PC 16 (2.11e+02): $-0.926c_{c\varphi}$ $-0.281c_{\varphi W}$ $+0.227c_{b\varphi}$ $+0.078c_{\varphi B}$ $-0.072c_{\varphi\Box}$ $+0.021c_{t\varphi}$ $+0.013c_{\varphi D}$ $+0.012c_{\tau\varphi}$

PC 17 (1.04e+02): $+0.854c_{\varphi D}$ $-0.375c_{\varphi WB}$ $-0.204c_{\varphi B}$ $-0.194c_{\varphi\Box}$ $+0.174c_{WWW}$ $+0.115c_{t\varphi}$ $-0.064c^{1}_{dt}$ $+0.025c^{1}_{ut}$ $-0.024c^{8}_{qu}$ $-0.024c_{b\varphi}$ $+0.020c^{1,3}_{qq}$ $+0.020c^{8,3}_{qq}$ $+0.012c_{c\varphi}$ $+0.012c^{8}_{qt}$ $-0.012c^{8}_{ut}$ $-0.011c_{\varphi W}$

PC 18 (5.47e+01): $+0.887c_{\varphi W}$ $-0.275c_{c\varphi}$ $-0.269c_{\varphi B}$ $+0.164c_{\varphi\Box}$ $+0.124c_{b\varphi}$ $-0.071c^{1,3}_{qq}$ $-0.070c^{8}_{dt}$ $+0.051c^{8,3}_{qq}$ $+0.049c^{1}_{qu}$ $+0.045c^{1}_{ut}$ $-0.041c^{1}_{qt}$ $-0.035c^{8}_{qu}$ $+0.032c^{8}_{qt}$ $-0.030c_{t\varphi}$ $+0.026c^{1}_{qd}$ $-0.015c^{1,1}_{qq}$ $-0.013c^{3}_{\varphi Q}$ $-0.012c^{8}_{qd}$ $+0.012c_{\tau\varphi}$ $-0.011c_{\varphi t}$ $+0.010c^{1,8}_{qq}$

PC 19 (5.02e+01): $-0.465c^{1,3}_{qq}$ $-0.413c^{8}_{dt}$ $+0.365c^{1}_{qu}$ $+0.325c^{8,3}_{qq}$ $+0.307c^{1}_{ut}$ $-0.280c^{1}_{qt}$ $-0.236c^{8}_{qu}$ $+0.224c^{8}_{qt}$ $+0.165c^{1}_{qd}$ $-0.135c^{1}_{dt}$ $-0.133c_{\varphi W}$ $-0.121c^{1,1}_{qq}$ $-0.085c^{8}_{qd}$ $+0.071c^{1,8}_{qq}$ $+0.046c_{\varphi B}$ $+0.038c_{c\varphi}$ $-0.022c^{8}_{ut}$ $-0.021c_{\varphi D}$ $-0.019c_{\varphi\Box}$ $-0.017c_{b\varphi}$ $+0.016c_{tG}$ $-0.010c_{WWW}$ $+0.010c_{\varphi WB}$

PC 20 (1.48e+01): $+0.513c^{1}_{ut}$ $-0.492c^{1,3}_{qq}$ $+0.468c^{1}_{dt}$ $+0.279c^{8}_{dt}$ $-0.258c^{8,3}_{qq}$ $-0.209c^{1}_{qu}$ $+0.147c^{8}_{qd}$ $-0.145c^{1,8}_{qq}$ $-0.134c^{8}_{qt}$ $+0.096c^{1}_{qd}$ $-0.074c^{1,1}_{qq}$ $+0.071c^{8}_{ut}$ $+0.060c^{1}_{qt}$ $+0.032c_{\varphi D}$ $+0.027c^{(-)}_{\varphi Q}$ $-0.020c_{\varphi t}$ $+0.020c_{WWW}$ $-0.016c_{\varphi WB}$

PC 21 (1.05e+01): $-0.576c^{1,1}_{qq}$ $+0.499c^{1,3}_{qq}$ $+0.319c^{8}_{qd}$ $+0.311c^{1}_{ut}$ $+0.281c^{1}_{qd}$ $+0.228c^{8,3}_{qq}$ $-0.187c^{8}_{qu}$ $-0.150c^{1}_{qu}$ $+0.120c^{1}_{qt}$ $+0.119c^{8}_{qt}$ $-0.028c^{8}_{ut}$ $-0.026c^{(-)}_{\varphi Q}$ $-0.024c_{\varphi D}$ $+0.022c^{8}_{dt}$ $+0.019c_{\varphi t}$ $-0.016c^{1,8}_{qq}$ $-0.015c_{WWW}$ $+0.012c_{\varphi WB}$

PC 22 (8.84e+00): $-0.672c^{1}_{qd}$ $-0.410c^{1}_{dt}$ $+0.350c^{8}_{qd}$ $+0.327c^{1}_{qt}$ $+0.230c^{8}_{ut}$ $-0.183c^{1,3}_{qq}$ $-0.168c^{1,1}_{qq}$ $+0.147c^{1}_{ut}$ $-0.051c^{8}_{dt}$ $-0.050c^{1,8}_{qq}$ $-0.043c^{8,3}_{qq}$ $-0.043c^{8}_{qu}$ $+0.043c^{1}_{qu}$ $-0.039c^{(-)}_{\varphi Q}$ $+0.029c_{\varphi t}$ $-0.026c_{\varphi D}$ $-0.017c_{WWW}$ $+0.014c_{\varphi WB}$ $+0.011c^{8}_{qt}$

PC 23 (5.40e+00): $+0.732c^{8}_{dt}$ $+0.497c^{1}_{qu}$ $-0.266c^{1}_{qt}$ $-0.192c^{8}_{qu}$ $-0.181c^{8}_{ut}$ $+0.142c^{8}_{qt}$ $-0.135c^{1}_{dt}$ $-0.101c^{8,3}_{qq}$ $-0.093c^{1,1}_{qq}$ $-0.081c^{(-)}_{\varphi Q}$ $-0.062c^{1}_{qd}$ $+0.062c_{\varphi t}$ $+0.048c^{8}_{qd}$ $-0.026c^{1}_{ut}$ $-0.023c^{1,8}_{qq}$ $-0.022c_{\varphi\Box}$ $+0.018c_{\varphi W}$ $-0.018c_{tG}$ $-0.018c_{\varphi D}$ $+0.017c_{t\varphi}$ $+0.016c^{1,3}_{qq}$ $-0.011c_{WWW}$

PC 24 (3.35e+00): $+0.765c^{(-)}_{\varphi Q}$ $-0.574c_{\varphi t}$ $+0.203c_{\varphi\Box}$ $-0.094c_{t\varphi}$ $+0.092c^{1}_{qu}$ $-0.065c^{8}_{qu}$ $+0.063c^{8}_{qd}$ $-0.058c^{1}_{qd}$ $-0.052c_{\varphi W}$ $+0.048c_{\varphi D}$ $+0.041c^{1,3}_{qq}$ $+0.037c^{8}_{dt}$ $-0.035c^{1,1}_{qq}$ $+0.032c^{8}_{qt}$ $+0.031c_{WWW}$ $-0.029c^{1}_{ut}$ $-0.026c^{1}_{qt}$ $-0.025c_{\varphi WB}$ $-0.020c_{tZ}$

PC 25 (3.18e+00): $+0.842c_{\varphi\Box}$ $-0.384c_{t\varphi}$ $-0.196c^{(-)}_{\varphi Q}$ $+0.176c_{\varphi D}$ $-0.171c_{\varphi W}$ $+0.146c_{\varphi t}$ $+0.114c_{WWW}$ $-0.091c_{\varphi WB}$ $+0.020c_{tZ}$ $-0.017c_{c\varphi}$ $+0.015c^{1}_{dt}$ $+0.013c^{8}_{qd}$ $+0.013c^{1}_{qu}$ $-0.012c^{8}_{qu}$ $-0.011c^{1}_{qd}$

PC 26 (1.40e+00): $-0.520c^{1}_{dt}$ $-0.456c^{8}_{qd}$ $+0.455c^{8}_{qu}$ $+0.369c^{1}_{ut}$ $+0.213c^{8}_{dt}$ $-0.184c^{1}_{qu}$ $-0.169c^{8}_{ut}$ $-0.125c^{1,1}_{qq}$ $+0.106c^{1,8}_{qq}$ $-0.105c^{8}_{qt}$ $+0.105c^{1}_{qd}$ $+0.069c^{1}_{qt}$ $+0.068c^{(-)}_{\varphi Q}$ $+0.066c_{\varphi\Box}$ $+0.055c^{8,3}_{qq}$ $-0.053c_{\varphi t}$ $-0.048c^{1,3}_{qq}$ $-0.012c_{\varphi D}$ $+0.011c_{t\varphi}$

PC 27 (5.51e-01): $-0.383c^{1}_{qd}$ $+0.345c^{1}_{qu}$ $+0.342c^{1,3}_{qq}$ $+0.342c^{1}_{dt}$ $-0.299c^{8}_{qd}$ $+0.279c^{1}_{ut}$ $-0.248c^{1,1}_{qq}$ $+0.247c^{8}_{qu}$ $-0.242c^{1}_{qt}$ $-0.224c^{8,3}_{qq}$ $-0.220c^{8}_{dt}$ $-0.128c^{3}_{\varphi Q}$ $-0.120c^{8}_{qt}$ $+0.105c^{8}_{ut}$ $-0.072c_{t\varphi}$ $-0.056c_{\varphi\Box}$ $+0.037c^{1,8}_{qq}$ $-0.024c^{(-)}_{\varphi Q}$ $+0.020c_{\varphi t}$

PC 28 (3.88e-01): $+0.900c_{t\varphi}$ $+0.404c_{\varphi\Box}$ $-0.102c^{3}_{\varphi Q}$ $+0.073c_{tZ}$ $+0.050c^{1}_{dt}$ $-0.041c_{\varphi W}$ $-0.031c^{1}_{qd}$ $+0.030c^{1}_{qu}$ $-0.029c^{8}_{dt}$ $+0.026c^{1,3}_{qq}$ $-0.021c^{1}_{qt}$ $+0.021c_{\varphi B}$ $-0.020c^{8,3}_{qq}$ $-0.017c_{\varphi D}$ $+0.015c^{8}_{ut}$ $-0.015c_{\varphi t}$ $-0.013c_{WWW}$ $-0.013c^{(-)}_{\varphi Q}$ $-0.011c^{1,1}_{qq}$

PC 29 (1.48e-01): $+0.979c^{3}_{\varphi Q}$ $+0.098c_{\varphi t}$ $+0.088c_{t\varphi}$ $+0.067c^{(-)}_{\varphi Q}$ $+0.056c^{1,3}_{qq}$ $-0.049c^{1}_{qd}$ $+0.048c^{1}_{dt}$ $+0.047c^{1}_{qu}$ $-0.038c^{1,1}_{qq}$

$-0.037c_{qd}^{8}$ $+0.036c_{\varphi\Box}$ $+0.035c_{ut}^{1}$ $-0.033c_{dt}^{8}$ $-0.033c_{qt}^{1}$ $+0.030c_{qu}^{8}$ $-0.027c_{qq}^{8,3}$ $-0.015c_{tZ}$ $+0.014c_{ut}^{8}$ $-0.014c_{qt}^{8}$ $-0.011c_{c\varphi}$

PC 30 (7.78e-03): $+0.974c_{tZ}$ $-0.176c_{\varphi t}$ $-0.103c_{\varphi Q}^{(-)}$ $-0.061c_{t\varphi}$ $+0.049c_{\varphi B}$ $+0.045c_{\varphi Q}^{3}$ $-0.043c_{\varphi\Box}$ $+0.011c_{\varphi W}$

PC 31 (3.82e-03): $-0.774c_{\varphi t}$ $-0.588c_{\varphi Q}^{(-)}$ $-0.206c_{tZ}$ $+0.111c_{\varphi Q}^{3}$

PC 32 (5.23e-04): $-0.787c_{tt}^{1}$ $-0.459c_{Qt}^{8}$ $-0.387c_{QQ}^{1}$ $-0.144c_{QQ}^{8}$

PC 33 (2.04e-05): $+0.700c_{QQ}^{8}$ $+0.572c_{Qt}^{8}$ $-0.375c_{tt}^{1}$ $-0.174c_{QQ}^{1}$ $+0.111c_{Qt}^{1}$

PC 34 (1.28e-05): $-0.699c_{QQ}^{8}$ $+0.669c_{Qt}^{8}$ $-0.225c_{tt}^{1}$ $+0.085c_{Qt}^{1}$ $-0.075c_{QQ}^{1}$

PC 35 (1.28e-05): $+0.984c_{Qt}^{1}$ $-0.115c_{Qt}^{8}$ $+0.111c_{tt}^{1}$ $-0.069c_{QQ}^{1}$ $-0.019c_{QQ}^{8}$

PC 36 (1.28e-05): $+0.900c_{QQ}^{1}$ $-0.421c_{tt}^{1}$ $+0.106c_{Qt}^{1}$ $-0.040c_{Qt}^{8}$ $+0.014c_{QQ}^{8}$