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| --- | --- |
| Table S3. Correlations between elliptic Fourier coefficients (variables) and principal components (factors). |  |
|  |  |  |  |  |  |  |  |  |  |  |
|   | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 | F10 |
| Var1 | -0.539 | 0.736 | 0.036 | -0.099 | 0.237 | -0.289 | 0.062 | 0.020 | 0.004 | -0.012 |
| Var2 | -0.105 | 0.557 | 0.380 | -0.339 | -0.441 | 0.308 | 0.055 | -0.119 | -0.284 | -0.031 |
| Var3 | 0.103 | -0.276 | 0.917 | 0.143 | 0.151 | -0.148 | -0.005 | -0.019 | 0.032 | -0.049 |
| Var4 | 0.896 | 0.328 | -0.009 | 0.232 | -0.120 | -0.141 | 0.010 | 0.003 | 0.004 | 0.009 |
| Var5 | 0.650 | 0.174 | 0.009 | -0.470 | 0.525 | 0.101 | -0.117 | -0.044 | -0.039 | 0.041 |
| Var6 | -0.059 | 0.438 | 0.222 | -0.317 | -0.251 | 0.221 | 0.012 | 0.372 | 0.577 | -0.109 |
| Var7 | 0.066 | -0.173 | 0.047 | 0.158 | 0.072 | -0.065 | -0.052 | 0.776 | -0.494 | 0.088 |
| Var8 | -0.104 | 0.367 | 0.027 | 0.603 | 0.431 | 0.525 | 0.025 | 0.016 | -0.028 | -0.153 |
| Var9 | -0.804 | 0.326 | 0.047 | 0.094 | 0.184 | -0.288 | -0.165 | -0.014 | -0.014 | 0.072 |
| Var10 | -0.098 | 0.445 | 0.621 | -0.271 | -0.263 | 0.192 | -0.014 | -0.059 | 0.002 | 0.094 |
| Var11 | 0.088 | -0.210 | 0.128 | 0.104 | 0.203 | -0.146 | -0.175 | 0.130 | -0.050 | 0.013 |
| Var12 | -0.086 | -0.069 | 0.018 | -0.071 | 0.279 | -0.071 | 0.906 | 0.055 | -0.028 | 0.121 |
| Var13 | 0.697 | -0.161 | 0.004 | -0.550 | 0.296 | -0.046 | -0.050 | 0.037 | -0.023 | -0.026 |
| Var14 | -0.037 | 0.295 | 0.190 | -0.194 | -0.125 | 0.209 | -0.044 | 0.554 | 0.260 | 0.201 |
| Var15 | 0.040 | 0.084 | 0.008 | -0.069 | 0.040 | -0.141 | -0.070 | 0.243 | -0.207 | 0.021 |
| Var16 | 0.310 | 0.077 | 0.103 | 0.234 | 0.321 | 0.373 | -0.062 | -0.117 | 0.129 | 0.598 |
| Var17 | -0.754 | 0.204 | 0.022 | 0.222 | -0.081 | -0.208 | -0.412 | 0.026 | -0.087 | 0.058 |
| Var18 | -0.062 | 0.183 | 0.598 | -0.203 | -0.242 | 0.252 | -0.015 | -0.069 | -0.108 | 0.237 |
| Var19 | 0.023 | -0.009 | -0.182 | -0.059 | 0.166 | -0.187 | -0.096 | 0.130 | 0.057 | -0.097 |
| Var20 | -0.476 | -0.009 | 0.009 | 0.199 | -0.135 | -0.162 | 0.357 | -0.033 | -0.008 | 0.151 |
| Var21 | 0.618 | -0.201 | -0.034 | -0.598 | 0.111 | -0.010 | 0.037 | 0.109 | -0.109 | -0.298 |
| Var22 | 0.002 | 0.063 | 0.190 | -0.116 | -0.155 | 0.287 | 0.024 | 0.600 | 0.106 | 0.198 |
| Var23 | -0.045 | 0.201 | 0.006 | 0.028 | 0.069 | -0.206 | -0.070 | -0.102 | -0.146 | -0.060 |
| Var24 | 0.516 | -0.067 | 0.045 | -0.230 | 0.214 | 0.238 | -0.079 | -0.100 | 0.126 | 0.413 |
| Var25 | -0.641 | 0.181 | 0.042 | 0.178 | -0.012 | -0.083 | -0.508 | 0.002 | -0.016 | 0.088 |
| Var26 | -0.037 | -0.041 | 0.521 | -0.061 | -0.262 | 0.223 | 0.078 | 0.044 | -0.080 | 0.190 |
| Var27 | 0.064 | 0.041 | -0.254 | 0.048 | 0.118 | -0.096 | -0.081 | 0.072 | 0.024 | -0.080 |
| Var28 | -0.541 | 0.064 | -0.002 | 0.008 | -0.178 | -0.118 | -0.041 | -0.054 | 0.012 | 0.094 |
| Var29 | 0.494 | -0.178 | -0.077 | -0.551 | 0.068 | -0.097 | 0.068 | 0.092 | -0.035 | -0.398 |
| Var30 | 0.049 | -0.109 | 0.179 | 0.055 | -0.090 | 0.291 | 0.033 | 0.534 | -0.027 | 0.176 |
| Var31 | -0.058 | 0.096 | -0.037 | 0.000 | -0.051 | -0.030 | 0.012 | -0.216 | -0.101 | -0.047 |
| Var32 | 0.363 | -0.038 | 0.007 | -0.478 | 0.127 | 0.094 | -0.082 | 0.013 | 0.066 | 0.088 |
| Var33 | -0.410 | 0.287 | 0.067 | 0.091 | 0.007 | 0.019 | -0.512 | 0.034 | 0.036 | 0.146 |
| Var34 | 0.045 | -0.155 | 0.460 | 0.079 | -0.090 | 0.060 | -0.002 | 0.040 | -0.057 | 0.163 |
| Var35 | 0.019 | -0.044 | -0.403 | -0.010 | 0.003 | -0.019 | 0.036 | 0.118 | 0.135 | -0.132 |
| Var36 | -0.342 | 0.136 | 0.033 | -0.009 | -0.174 | -0.068 | -0.200 | -0.121 | 0.030 | 0.033 |
| Var37 | 0.307 | 0.076 | -0.095 | -0.490 | -0.120 | -0.037 | 0.100 | 0.116 | -0.070 | -0.464 |
| Var38 | 0.013 | -0.078 | 0.163 | 0.047 | -0.041 | 0.228 | -0.023 | 0.436 | -0.167 | 0.083 |
| Var39 | -0.075 | -0.076 | -0.151 | 0.085 | 0.007 | 0.028 | 0.074 | -0.316 | -0.042 | -0.039 |
| Var40 | 0.264 | 0.005 | -0.015 | -0.440 | 0.106 | -0.084 | 0.017 | 0.058 | -0.045 | -0.159 |
| Var41 | -0.245 | 0.335 | 0.065 | -0.037 | 0.032 | 0.138 | -0.393 | 0.093 | 0.061 | 0.079 |
| Var42 | 0.015 | 0.045 | 0.326 | -0.015 | -0.128 | -0.083 | -0.048 | 0.120 | -0.010 | 0.049 |
| Var43 | 0.041 | -0.217 | -0.276 | -0.026 | 0.033 | 0.035 | -0.009 | -0.027 | 0.037 | -0.060 |
| Var44 | -0.175 | 0.116 | 0.066 | 0.063 | 0.021 | -0.115 | -0.386 | 0.032 | 0.017 | 0.055 |
| Var45 | 0.153 | 0.009 | -0.101 | -0.292 | -0.054 | -0.084 | 0.041 | 0.103 | -0.061 | -0.440 |
| Var46 | -0.060 | 0.169 | 0.145 | -0.079 | -0.033 | 0.189 | -0.043 | 0.315 | -0.210 | -0.055 |
| Var47 | 0.031 | -0.105 | -0.095 | 0.032 | 0.033 | -0.042 | 0.042 | -0.305 | 0.072 | -0.019 |
| Var48 | 0.216 | -0.027 | -0.070 | -0.237 | 0.075 | -0.187 | 0.117 | 0.143 | -0.090 | -0.176 |
| Var49 | -0.048 | 0.080 | 0.037 | 0.030 | 0.203 | 0.083 | -0.310 | 0.001 | -0.015 | 0.092 |
| Var50 | 0.021 | 0.154 | 0.210 | -0.083 | -0.049 | -0.134 | -0.116 | 0.148 | 0.003 | -0.042 |
| Var51 | -0.022 | -0.039 | -0.234 | -0.044 | 0.092 | 0.012 | 0.053 | -0.042 | -0.004 | -0.073 |
| Var52 | 0.010 | -0.004 | 0.077 | -0.018 | 0.275 | -0.017 | -0.283 | 0.048 | -0.023 | -0.034 |
| Var53 | 0.108 | -0.126 | -0.118 | -0.104 | 0.046 | -0.152 | -0.021 | 0.028 | -0.192 | -0.369 |
| Var54 | -0.020 | 0.043 | 0.122 | -0.068 | 0.055 | 0.107 | -0.062 | 0.185 | -0.225 | -0.059 |
| Var55 | 0.075 | 0.048 | -0.123 | -0.102 | 0.095 | -0.103 | -0.007 | -0.147 | 0.171 | -0.002 |
| Var56 | 0.049 | -0.046 | -0.036 | -0.145 | 0.081 | -0.104 | 0.040 | 0.042 | -0.201 | -0.293 |
| Var57 | 0.030 | 0.001 | 0.023 | 0.035 | 0.144 | 0.015 | -0.200 | 0.012 | -0.083 | 0.032 |
| Var58 | 0.053 | -0.112 | 0.156 | 0.003 | -0.012 | -0.163 | -0.111 | 0.128 | -0.053 | -0.002 |
| Var59 | 0.009 | 0.134 | -0.056 | -0.064 | 0.013 | -0.058 | 0.059 | -0.165 | -0.094 | 0.066 |
| Var60 | 0.094 | 0.087 | -0.099 | 0.008 | 0.185 | 0.073 | -0.244 | 0.104 | -0.072 | -0.018 |
| Var61 | 0.061 | -0.033 | -0.116 | -0.103 | 0.064 | -0.170 | -0.076 | 0.133 | -0.143 | -0.302 |
| Var62 | 0.019 | -0.099 | 0.118 | -0.043 | 0.005 | 0.107 | -0.035 | 0.139 | -0.209 | -0.032 |
| Var63 | 0.030 | 0.026 | -0.061 | 0.026 | 0.052 | -0.075 | 0.032 | -0.073 | 0.054 | 0.005 |
| Var64 | 0.041 | 0.017 | -0.070 | -0.006 | 0.040 | -0.114 | 0.003 | 0.013 | -0.040 | -0.330 |
| Var65 | -0.008 | 0.139 | 0.082 | -0.050 | 0.081 | -0.064 | -0.126 | 0.019 | -0.007 | -0.035 |
| Var66 | 0.028 | -0.011 | 0.158 | -0.048 | -0.105 | -0.018 | -0.007 | 0.171 | -0.120 | 0.041 |
| Var67 | 0.003 | -0.038 | -0.072 | 0.037 | 0.080 | -0.098 | -0.008 | -0.051 | -0.068 | 0.055 |
| Var68 | 0.041 | 0.035 | -0.089 | -0.026 | 0.136 | 0.105 | -0.068 | -0.059 | -0.035 | -0.022 |
| Var69 | 0.046 | 0.058 | -0.073 | -0.115 | 0.097 | -0.126 | -0.152 | 0.130 | -0.093 | -0.208 |
| Var70 | 0.036 | 0.035 | 0.169 | -0.052 | -0.040 | 0.129 | 0.037 | 0.157 | -0.036 | -0.024 |
| Var71 | 0.015 | -0.044 | -0.038 | 0.059 | 0.080 | -0.063 | 0.077 | -0.153 | -0.119 | -0.012 |
| Var72 | 0.015 | -0.078 | 0.012 | -0.030 | 0.074 | 0.022 | 0.028 | 0.021 | 0.007 | -0.061 |
| Var73 | 0.016 | 0.044 | 0.115 | -0.070 | -0.021 | -0.074 | -0.151 | 0.039 | -0.033 | -0.019 |
| Var74 | -0.034 | 0.116 | 0.136 | -0.087 | -0.059 | 0.031 | -0.008 | 0.116 | -0.079 | 0.076 |
| Var75 | -0.065 | 0.048 | -0.015 | -0.030 | -0.020 | -0.066 | -0.001 | -0.200 | -0.128 | 0.055 |
| Var76 | 0.048 | -0.055 | -0.040 | -0.020 | 0.041 | 0.089 | 0.017 | 0.012 | 0.012 | -0.061 |