

Supplementary materials for

‘Implications of nutrient enrichment and related environmental impacts in the Pearl River estuary, China: characterizing the seasonal influence of riverine input’

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Table S1 Two end-member model results of nutrients in February in the Pearl River estuary

| Site | Salinity | | F ₂ | F ₁ | DIN | | ΔDIN | DIP | | ΔDIP | DSi | | ΔDSi |
|------|----------|----------------|----------------|----------------|--------|----------------|--------|--------|----------------|---------|-------|-----------------|--------|
| P01 | 1.50 | S ₁ | -0.474 | 1.474 | 2.54 | N ₁ | -0.233 | 0.0116 | P ₁ | 0.0270 | 3.22 | Si ₁ | -0.190 |
| P02 | 22.62 | 10.40 | 0.651 | 0.349 | 1.246 | 1.68 | -0.424 | 0.0263 | 0.029 | -0.0100 | 1.36 | 2.24 | -0.205 |
| P03 | 2.02 | S ₂ | -0.446 | 1.446 | 2.275 | N ₂ | -0.005 | 0.0186 | P ₂ | 0.0194 | 3.16 | Si ₂ | -0.176 |
| P04 | 10.50 | 29.18 | 0.005 | 0.995 | 1.476 | 0.36 | 0.198 | 0.0394 | 0.009 | -0.0103 | 2.04 | 0.573 | 0.191 |
| P05 | 12.47 | | 0.110 | 0.890 | 1.3247 | | 0.211 | 0.0394 | | -0.0124 | 1.88 | | 0.176 |
| P06 | 13.28 | | 0.153 | 0.847 | 1.225 | | 0.254 | 0.0398 | | -0.0136 | 1.76 | | 0.224 |
| P07 | 17.10 | | 0.356 | 0.644 | 0.9805 | | 0.230 | 0.0283 | | -0.0062 | 1.37 | | 0.276 |
| P08 | 19.76 | | 0.498 | 0.502 | 0.8787 | | 0.144 | 0.0282 | | -0.0089 | 1.12 | | 0.289 |
| P09 | 1.600 | | -0.469 | 1.469 | 2.938 | | -0.638 | 0.0096 | | 0.0289 | 3.36 | | -0.339 |
| P10 | 2.02 | | -0.446 | 1.446 | 2.437 | | -0.166 | 0.0196 | | 0.0184 | 2.70 | | 0.284 |
| P11 | 22.72 | | 0.656 | 0.344 | 0.8522 | | -0.037 | 0.0310 | | -0.0148 | 1.74 | | -0.593 |
| P12 | 14.44 | | 0.215 | 0.785 | 1.0852 | | 0.312 | 0.0351 | | -0.0102 | 0.842 | | 1.039 |
| P13 | 28.24 | | 0.950 | 0.050 | 0.4844 | | -0.058 | 0.0143 | | -0.0039 | 0.767 | | -0.111 |
| P14 | 28.72 | | 0.976 | 0.024 | 0.4471 | | -0.055 | 0.0112 | | -0.0013 | 0.657 | | -0.043 |
| P15 | 28.37 | | 0.957 | 0.043 | 0.5759 | | -0.159 | 0.0105 | | -0.0002 | 0.797 | | -0.152 |
| P16 | 23.27 | | 0.685 | 0.315 | 1.354 | | -0.578 | 0.0178 | | -0.0022 | 1.32 | | -0.222 |
| P17 | 8.25 | | -0.115 | 1.115 | 1.7541 | | 0.078 | 0.0100 | | 0.0215 | 1.29 | | 1.141 |
| P18 | 29.74 | | 1.030 | -0.030 | 0.2901 | | 0.030 | 0.0274 | | -0.0186 | 0.560 | | -0.037 |
| P19 | 29.69 | | 1.027 | -0.027 | 0.2924 | | 0.032 | 0.0134 | | -0.0045 | 0.547 | | -0.019 |
| P20 | 29.80 | | 1.033 | -0.033 | 0.2142 | | 0.103 | 0.0097 | | -0.0009 | 0.472 | | 0.046 |
| P21 | 30.24 | | 1.056 | -0.056 | 0.2102 | | 0.075 | 0.0094 | | -0.0011 | 0.433 | | 0.046 |
| P22 | 29.36 | | 1.010 | -0.010 | 0.3221 | | 0.025 | 0.0157 | | -0.0065 | 0.647 | | -0.090 |
| P23 | 29.89 | | 1.038 | -0.038 | 0.2337 | | 0.077 | 0.0081 | | 0.0006 | 0.601 | | -0.091 |
| P24 | 24.80 | | 0.767 | 0.233 | 0.4073 | | 0.261 | 0.0098 | | 0.0042 | 0.774 | | 0.187 |
| P25 | 30.19 | | 1.054 | -0.054 | 0.1682 | | 0.121 | 0.0064 | | 0.0019 | 0.567 | | -0.084 |
| P26 | 31.91 | | 1.145 | -0.145 | 0.076 | | 0.092 | 0.0103 | | -0.0038 | 0.230 | | 0.100 |
| P27 | 31.90 | | 1.145 | -0.145 | 0.1448 | | 0.024 | 0.0013 | | 0.0052 | 0.346 | | -0.014 |
| P28 | 31.36 | | 1.116 | -0.116 | 0.1325 | | 0.075 | 0.0041 | | 0.0030 | 0.356 | | 0.024 |
| P29 | 33.05 | | 1.206 | -0.206 | 0.1751 | | -0.087 | 0.0072 | | -0.0019 | 0.244 | | -0.014 |
| P30 | 32.62 | | 1.183 | -0.183 | 0.2105 | | -0.092 | 0.0074 | | -0.0016 | 0.298 | | -0.030 |
| P31 | 32.53 | | 1.178 | -0.178 | 0.2156 | | -0.091 | 0.0081 | | -0.0022 | 0.316 | | -0.040 |
| P32 | 32.90 | | 1.198 | -0.198 | 0.0934 | | 0.005 | 0.0049 | | 0.0006 | 0.277 | | -0.034 |
| P33 | 28.90 | | 0.985 | 0.015 | 0.1989 | | 0.181 | 0.0088 | | 0.0009 | 0.912 | | -0.314 |
| P34 | 25.64 | | 0.812 | 0.188 | 0.4526 | | 0.156 | 0.0115 | | 0.0016 | 1.37 | | -0.483 |
| P35 | 19.39 | | 0.478 | 0.522 | 0.4599 | | 0.589 | 0.0118 | | 0.0079 | 1.73 | | -0.288 |
| P36 | 21.87 | | 0.611 | 0.389 | 1.2332 | | -0.360 | 0.0160 | | 0.0011 | 0.352 | | 0.870 |
| P37 | 24.43 | | 0.747 | 0.253 | 0.7673 | | -0.073 | 0.0146 | | -0.0002 | 1.02 | | -0.025 |
| P38 | 21.29 | | 0.580 | 0.420 | 1.1958 | | -0.281 | 0.0208 | | -0.0031 | 0.831 | | 0.442 |
| P39 | 27.73 | | 0.923 | 0.077 | 0.4494 | | 0.013 | 0.0075 | | 0.0034 | 0.723 | | -0.021 |
| P40 | 27.14 | | 0.891 | 0.109 | 0.6644 | | -0.161 | 0.0168 | | -0.0053 | 0.881 | | -0.127 |
| P41 | 28.84 | | 0.982 | 0.018 | 0.5254 | | -0.141 | 0.0096 | | 0.0002 | 0.716 | | -0.113 |
| P42 | 32.01 | | 1.151 | -0.151 | 0.1203 | | 0.041 | 0.0095 | | -0.0031 | 0.296 | | 0.026 |
| P43 | 34.20 | | 1.267 | -0.267 | 0.1134 | | -0.106 | 0.0131 | | -0.0090 | 0.086 | | 0.042 |
| P44 | 34.13 | | 1.264 | -0.264 | 0.1581 | | -0.146 | 0.0041 | | 0.0001 | 0.098 | | 0.035 |
| P45 | 34.46 | | 1.281 | -0.281 | 0.0874 | | -0.098 | 0.0041 | | -0.0003 | 0.148 | | -0.043 |

Table S2 Two end-member model results of nutrients in May in the Pearl River estuary

| Site | Salinity | | F2 | F1 | DIN | Δ DIN | DIP | Δ DIP | DSi | Δ DSi | | | |
|------|----------|--------|--------|--------|-------|--------------|--------|--------------|-------|--------------|-------|-------|--------|
| P01 | 0.520 | S1 | -0.013 | 1.013 | 2.358 | N1 | -0.452 | 0.022 | P1 | 0.002 | 4.300 | Si1 | -0.451 |
| P02 | 0.600 | 0.896 | -0.010 | 1.010 | 1.842 | 1.883 | 0.059 | 0.016 | 0.024 | 0.008 | 3.910 | 3.802 | -0.071 |
| P03 | 0.800 | S2 | -0.003 | 1.003 | 2.058 | N2 | -0.169 | 0.021 | P2 | 0.003 | 4.320 | Si2 | -0.506 |
| P04 | 0.700 | 29.296 | -0.007 | 1.007 | 1.897 | 0.116 | -0.002 | 0.039 | 0.008 | -0.015 | 4.110 | 0.246 | -0.283 |
| P05 | 0.600 | | -0.010 | 1.010 | 1.830 | | 0.071 | 0.023 | | 0.001 | 3.820 | | 0.019 |
| P06 | 2.158 | | 0.044 | 0.956 | 1.313 | | 0.492 | 0.021 | | 0.002 | 2.350 | | 1.294 |
| P07 | 3.797 | | 0.102 | 0.898 | 1.763 | | -0.060 | 0.079 | | -0.056 | 3.320 | | 0.119 |
| P08 | 4.874 | | 0.140 | 0.860 | 0.870 | | 0.766 | 0.009 | | 0.012 | 1.720 | | 1.584 |
| P09 | 1.500 | | 0.021 | 0.979 | 1.620 | | 0.225 | 0.011 | | 0.013 | 3.060 | | 0.666 |
| P10 | 0.850 | | -0.002 | 1.002 | 1.664 | | 0.222 | 0.014 | | 0.010 | 3.210 | | 0.598 |
| P11 | 6.741 | | 0.206 | 0.794 | 0.789 | | 0.730 | 0.015 | | 0.006 | 1.710 | | 1.360 |
| P12 | 9.623 | | 0.307 | 0.693 | 1.005 | | 0.335 | 0.026 | | -0.007 | 1.840 | | 0.869 |
| P13 | 13.348 | | 0.438 | 0.562 | 0.721 | | 0.388 | 0.017 | | 0.000 | 1.080 | | 1.163 |
| P14 | 12.112 | | 0.395 | 0.605 | 0.920 | | 0.265 | 0.021 | | -0.004 | 1.460 | | 0.938 |
| P15 | 14.812 | | 0.490 | 0.510 | 0.903 | | 0.114 | 0.019 | | -0.003 | 1.530 | | 0.530 |
| P16 | 11.879 | | 0.387 | 0.613 | 0.660 | | 0.540 | 0.015 | | 0.003 | 1.380 | | 1.047 |
| P17 | 12.694 | | 0.415 | 0.585 | 1.365 | | -0.216 | 0.120 | | -0.103 | 2.980 | | -0.655 |
| P18 | 21.417 | | 0.723 | 0.277 | 0.427 | | 0.179 | 0.007 | | 0.006 | 0.705 | | 0.528 |
| P19 | 22.594 | | 0.764 | 0.236 | 0.321 | | 0.212 | 0.005 | | 0.007 | 0.458 | | 0.627 |
| P20 | 22.335 | | 0.755 | 0.245 | 0.452 | | 0.097 | 0.004 | | 0.008 | 0.693 | | 0.425 |
| P21 | 28.747 | | 0.981 | 0.019 | 0.120 | | 0.030 | 0.006 | | 0.002 | 0.172 | | 0.143 |
| P22 | 20.437 | | 0.688 | 0.312 | 0.415 | | 0.252 | 0.006 | | 0.007 | 0.664 | | 0.691 |
| P23 | 32.219 | | 1.103 | -0.103 | 0.013 | | 0.080 | 0.007 | | -0.001 | 0.082 | | -0.201 |
| P24 | 31.475 | | 1.077 | -0.077 | 0.031 | | 0.050 | 0.014 | | -0.008 | 0.164 | | -0.191 |
| P25 | 32.818 | | 1.124 | -0.124 | 0.022 | | 0.120 | 0.009 | | -0.003 | 0.107 | | -0.302 |
| P26 | 33.762 | | 1.157 | -0.157 | 0.015 | | 0.180 | 0.009 | | -0.004 | 0.101 | | -0.414 |
| P27 | 33.578 | | 1.151 | -0.151 | 0.013 | | 0.160 | 0.010 | | -0.004 | 0.089 | | -0.379 |
| P28 | 33.284 | | 1.140 | -0.140 | 0.016 | | 0.150 | 0.013 | | -0.007 | 0.133 | | -0.386 |
| P29 | 34.746 | | 1.192 | -0.192 | 0.012 | | 0.230 | 0.002 | | 0.003 | 0.031 | | -0.468 |
| P30 | 33.507 | | 1.148 | -0.148 | 0.019 | | 0.170 | 0.013 | | -0.007 | 0.147 | | -0.428 |
| P31 | 34.581 | | 1.186 | -0.186 | 0.018 | | 0.230 | 0.005 | | 0.000 | 0.062 | | -0.477 |
| P32 | 33.386 | | 1.144 | -0.144 | 0.014 | | 0.150 | 0.010 | | -0.004 | 0.104 | | -0.370 |
| P33 | 32.296 | | 1.106 | -0.106 | 0.019 | | 0.090 | 0.006 | | 0.000 | 0.087 | | -0.216 |
| P34 | 31.745 | | 1.086 | -0.086 | 0.024 | | 0.060 | 0.008 | | -0.001 | 0.063 | | -0.124 |
| P35 | 29.784 | | 1.017 | -0.017 | 0.075 | | 0.010 | 0.009 | | -0.001 | 0.083 | | 0.101 |
| P36 | 9.844 | | 0.315 | 0.685 | 0.356 | | 0.970 | 0.003 | | 0.016 | 0.648 | | 2.034 |
| P37 | 14.810 | | 0.490 | 0.510 | 0.852 | | 0.165 | 0.005 | | 0.011 | 1.570 | | 0.490 |
| P38 | 12.319 | | 0.402 | 0.598 | 0.502 | | 0.671 | 0.002 | | 0.016 | 0.845 | | 1.527 |
| P39 | 24.992 | | 0.848 | 0.152 | 0.288 | | 0.096 | 0.018 | | -0.008 | 0.413 | | 0.372 |
| P40 | 25.076 | | 0.851 | 0.149 | 0.150 | | 0.228 | 0.003 | | 0.008 | 0.119 | | 0.655 |
| P41 | 26.719 | | 0.909 | 0.091 | 0.161 | | 0.116 | 0.003 | | 0.006 | 0.091 | | 0.478 |
| P42 | 31.885 | | 1.091 | -0.091 | 0.013 | | 0.060 | 0.006 | | 0.001 | 0.087 | | -0.165 |
| P43 | 32.954 | | 1.129 | -0.129 | 0.019 | | 0.130 | 0.006 | | 0.000 | 0.249 | | -0.461 |
| P44 | 34.136 | | 1.170 | -0.170 | 0.014 | | 0.200 | 0.010 | | -0.005 | 0.278 | | -0.638 |
| P45 | 33.889 | | 1.162 | -0.162 | 0.013 | | 0.180 | 0.011 | | -0.005 | 0.111 | | -0.440 |

Table S3 Two end-member model results of nutrients in August in the Pearl River estuary

| Site | Salinity | F2 | F1 | DIN | Δ DIN | DIP | Δ DIP | DSi | Δ DSi | | | | |
|------|----------|--------|--------|--------|--------------|-------|--------------|-------|--------------|--------|-------|-------|--------|
| P01 | 0.600 | S1 | -0.054 | 1.054 | 2.364 | N1 | 0.019 | 0.070 | P1 | -0.003 | 4.890 | Si1 | -0.792 |
| P02 | 0.800 | 1.714 | -0.045 | 1.045 | 2.246 | 2.293 | 0.121 | 0.062 | 0.064 | 0.004 | 4.080 | 3.940 | -0.010 |
| P03 | 2.626 | S2 | 0.044 | 0.956 | 2.113 | N2 | 0.106 | 0.067 | P2 | -0.005 | 4.180 | Si2 | -0.370 |
| P04 | 1.800 | 22.225 | 0.004 | 0.996 | 2.487 | 0.636 | -0.201 | 0.064 | 0.016 | 0.000 | 3.660 | 1.023 | 0.268 |
| P05 | 2.959 | | 0.061 | 0.939 | 2.224 | | -0.032 | 0.062 | | -0.001 | 3.150 | | 0.613 |
| P06 | 1.500 | | -0.010 | 1.010 | 2.322 | | -0.012 | 0.060 | | 0.005 | 3.680 | | 0.290 |
| P07 | 3.885 | | 0.106 | 0.894 | 2.141 | | -0.023 | 0.071 | | -0.012 | 3.330 | | 0.301 |
| P08 | 3.537 | | 0.089 | 0.911 | 2.172 | | -0.026 | 0.066 | | -0.006 | 3.430 | | 0.251 |
| P09 | 1.600 | | -0.006 | 1.006 | 1.770 | | 0.532 | 0.034 | | 0.030 | 2.660 | | 1.296 |
| P10 | 1.200 | | -0.025 | 1.025 | 1.900 | | 0.435 | 0.033 | | 0.033 | 3.130 | | 0.883 |
| P11 | 4.681 | | 0.145 | 0.855 | 2.013 | | 0.040 | 0.057 | | 0.000 | 3.400 | | 0.118 |
| P12 | 5.658 | | 0.192 | 0.808 | 2.152 | | -0.178 | 0.093 | | -0.038 | 3.580 | | -0.201 |
| P13 | 10.400 | | 0.423 | 0.577 | 1.781 | | -0.190 | 0.070 | | -0.026 | 3.060 | | -0.355 |
| P14 | 12.065 | | 0.505 | 0.495 | 1.753 | | -0.296 | 0.073 | | -0.034 | 2.910 | | -0.442 |
| P15 | 4.952 | | 0.158 | 0.842 | 1.879 | | 0.153 | 0.054 | | 0.002 | 3.360 | | 0.120 |
| P16 | 13.406 | | 0.570 | 0.430 | 0.964 | | 0.385 | 0.218 | | -0.181 | 3.030 | | -0.752 |
| P17 | 11.287 | | 0.467 | 0.533 | 1.075 | | 0.445 | 0.232 | | -0.190 | 3.140 | | -0.561 |
| P18 | 7.732 | | 0.293 | 0.707 | 0.960 | | 0.847 | 0.039 | | 0.011 | 1.720 | | 1.364 |
| P19 | 6.343 | | 0.226 | 0.774 | 1.672 | | 0.248 | 0.043 | | 0.010 | 2.940 | | 0.342 |
| P20 | 7.966 | | 0.305 | 0.695 | 1.645 | | 0.143 | 0.030 | | 0.019 | 3.010 | | 0.041 |
| P21 | 12.492 | | 0.525 | 0.475 | 1.533 | | -0.110 | 0.051 | | -0.012 | 2.760 | | -0.352 |
| P22 | 6.071 | | 0.212 | 0.788 | 1.546 | | 0.395 | 0.033 | | 0.021 | 2.920 | | 0.401 |
| P23 | 12.353 | | 0.519 | 0.481 | 1.553 | | -0.120 | 0.044 | | -0.005 | 2.710 | | -0.283 |
| P24 | 11.601 | | 0.482 | 0.518 | 1.496 | | -0.002 | 0.027 | | 0.014 | 2.630 | | -0.096 |
| P25 | 18.279 | | 0.807 | 0.193 | 0.838 | | 0.117 | 0.006 | | 0.019 | 1.150 | | 0.435 |
| P26 | 28.559 | | 1.308 | -0.308 | 0.248 | | -0.123 | 0.005 | | -0.004 | 0.083 | | 0.040 |
| P27 | 31.907 | | 1.472 | -0.472 | 0.077 | | -0.222 | 0.004 | | -0.011 | 0.121 | | -0.474 |
| P28 | 30.606 | | 1.408 | -0.408 | 0.109 | | -0.150 | 0.005 | | -0.009 | 0.102 | | -0.270 |
| P29 | 32.184 | | 1.485 | -0.485 | 0.026 | | -0.194 | 0.007 | | -0.014 | 0.051 | | -0.443 |
| P30 | 32.614 | | 1.506 | -0.506 | 0.024 | | -0.227 | 0.003 | | -0.011 | 0.034 | | -0.487 |
| P31 | 33.676 | | 1.558 | -0.558 | 0.027 | | -0.316 | 0.006 | | -0.017 | 0.039 | | -0.643 |
| P32 | 31.102 | | 1.432 | -0.432 | 0.038 | | -0.119 | 0.007 | | -0.012 | 0.092 | | -0.331 |
| P33 | 33.062 | | 1.528 | -0.528 | 0.106 | | -0.345 | 0.005 | | -0.014 | 0.342 | | -0.859 |
| P34 | 7.652 | | 0.289 | 0.711 | 1.431 | | 0.382 | 0.037 | | 0.013 | 2.540 | | 0.556 |
| P35 | 6.587 | | 0.238 | 0.762 | 1.466 | | 0.433 | 0.033 | | 0.020 | 2.680 | | 0.567 |
| P36 | 10.332 | | 0.420 | 0.580 | 1.425 | | 0.172 | 0.041 | | 0.003 | 1.960 | | 0.755 |
| P37 | 16.753 | | 0.733 | 0.267 | 1.043 | | 0.035 | 0.034 | | -0.006 | 1.500 | | 0.302 |
| P38 | 18.498 | | 0.818 | 0.182 | 0.881 | | 0.057 | 0.021 | | 0.004 | 1.460 | | 0.094 |
| P39 | 10.452 | | 0.426 | 0.574 | 1.270 | | 0.317 | 0.031 | | 0.012 | 2.190 | | 0.508 |
| P40 | 19.582 | | 0.871 | 0.129 | 0.586 | | 0.264 | 0.008 | | 0.014 | 0.830 | | 0.569 |
| P41 | 17.810 | | 0.785 | 0.215 | 0.624 | | 0.369 | 0.007 | | 0.020 | 0.649 | | 1.003 |
| P42 | 28.396 | | 1.301 | -0.301 | 0.196 | | -0.058 | 0.007 | | -0.006 | 0.261 | | -0.115 |
| P43 | 12.643 | | 0.533 | 0.467 | 1.118 | | 0.292 | 0.018 | | 0.020 | 1.950 | | 0.436 |
| P44 | 33.005 | | 1.525 | -0.525 | 0.024 | | -0.258 | 0.004 | | -0.013 | 0.077 | | -0.586 |
| P45 | 33.529 | | 1.551 | -0.551 | 0.024 | | -0.300 | 0.004 | | -0.015 | 0.069 | | -0.652 |

Table S4 Two end-member model results of nutrients in November in the Pearl River estuary

| Site | Salinity | | F2 | F1 | DIN | | Δ DIN | DIP | | Δ DIP | DSi | | Δ DSi |
|------|----------|--------|--------|--------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|
| P01 | 0.900 | S1 | -0.500 | 1.500 | 2.166 | N1 | 0.454 | 0.046 | P1 | 0.028 | 3.230 | Si1 | 0.649 |
| P02 | 6.512 | 10.504 | -0.208 | 1.208 | 2.240 | 1.838 | -0.076 | 0.042 | 0.053 | 0.020 | 3.390 | 2.742 | -0.176 |
| P03 | 2.354 | S2 | -0.424 | 1.424 | 2.078 | N2 | 0.424 | 0.042 | P2 | 0.029 | 3.200 | Si2 | 0.507 |
| P04 | 14.150 | 29.697 | 0.190 | 0.810 | 1.676 | 0.283 | -0.133 | 0.053 | 0.012 | -0.008 | 2.450 | 0.468 | -0.140 |
| P05 | 16.068 | | 0.290 | 0.710 | 1.617 | | -0.229 | 0.057 | | -0.015 | 2.500 | | -0.417 |
| P06 | 23.042 | | 0.653 | 0.347 | 1.253 | | -0.432 | 0.080 | | -0.054 | 1.680 | | -0.423 |
| P07 | 25.290 | | 0.770 | 0.230 | 0.869 | | -0.231 | 0.041 | | -0.019 | 1.250 | | -0.260 |
| P08 | 24.970 | | 0.754 | 0.246 | 0.823 | | -0.159 | 0.031 | | -0.009 | 1.210 | | -0.182 |
| P09 | 1.600 | | -0.464 | 1.464 | 1.595 | | 0.968 | 0.043 | | 0.029 | 2.420 | | 1.376 |
| P10 | 0.900 | | -0.500 | 1.500 | 1.865 | | 0.755 | 0.042 | | 0.031 | 2.970 | | 0.909 |
| P11 | 27.386 | | 0.879 | 0.121 | 0.604 | | -0.136 | 0.024 | | -0.007 | 0.789 | | -0.047 |
| P12 | 27.593 | | 0.890 | 0.110 | 0.601 | | -0.150 | 0.026 | | -0.009 | 0.775 | | -0.057 |
| P13 | 30.681 | | 1.051 | -0.051 | 0.345 | | -0.145 | 0.020 | | -0.010 | 0.381 | | -0.029 |
| P14 | 31.960 | | 1.118 | -0.118 | 0.232 | | -0.136 | 0.019 | | -0.012 | 0.273 | | -0.073 |
| P15 | 32.473 | | 1.144 | -0.144 | 0.183 | | -0.128 | 0.015 | | -0.009 | 0.234 | | -0.094 |
| P16 | 13.578 | | 0.160 | 0.840 | 1.204 | | 0.386 | 0.155 | | -0.109 | 2.380 | | -0.003 |
| P17 | 11.588 | | 0.057 | 0.943 | 1.244 | | 0.508 | 0.225 | | -0.174 | 3.000 | | -0.387 |
| P18 | 25.927 | | 0.803 | 0.197 | 0.093 | | 0.494 | 0.006 | | 0.014 | 0.281 | | 0.634 |
| P19 | 30.672 | | 1.051 | -0.051 | 0.297 | | -0.096 | 0.008 | | 0.002 | 0.398 | | -0.045 |
| P20 | 32.648 | | 1.154 | -0.154 | 0.055 | | -0.015 | 0.005 | | 0.000 | 0.256 | | -0.137 |
| P21 | 32.280 | | 1.134 | -0.134 | 0.071 | | 0.000 | 0.005 | | 0.002 | 0.255 | | -0.093 |
| P22 | 26.358 | | 0.826 | 0.174 | 0.065 | | 0.487 | 0.005 | | 0.014 | 0.243 | | 0.621 |
| P23 | 33.283 | | 1.187 | -0.187 | 0.054 | | -0.065 | 0.005 | | 0.000 | 0.255 | | -0.211 |
| P24 | 29.482 | | 0.989 | 0.011 | 0.144 | | 0.153 | 0.006 | | 0.007 | 0.189 | | 0.305 |
| P25 | 33.320 | | 1.189 | -0.189 | 0.049 | | -0.063 | 0.004 | | 0.000 | 0.292 | | -0.253 |
| P26 | 32.915 | | 1.167 | -0.167 | 0.043 | | -0.024 | 0.003 | | 0.002 | 0.290 | | -0.203 |
| P27 | 33.009 | | 1.172 | -0.172 | 0.061 | | -0.050 | 0.006 | | -0.001 | 0.354 | | -0.278 |
| P28 | 33.060 | | 1.175 | -0.175 | 0.121 | | -0.114 | 0.011 | | -0.006 | 0.427 | | -0.357 |
| P29 | 31.816 | | 1.110 | -0.110 | 0.101 | | 0.007 | 0.009 | | -0.002 | 0.420 | | -0.203 |
| P30 | 32.814 | | 1.162 | -0.162 | 0.076 | | -0.049 | 0.005 | | 0.000 | 0.136 | | -0.037 |
| P31 | 32.490 | | 1.145 | -0.145 | 0.079 | | -0.026 | 0.006 | | 0.000 | 0.137 | | 0.001 |
| P32 | 32.305 | | 1.136 | -0.136 | 0.072 | | -0.003 | 0.005 | | 0.002 | 0.137 | | 0.022 |
| P33 | 31.814 | | 1.110 | -0.110 | 0.094 | | 0.014 | 0.007 | | 0.001 | 0.165 | | 0.053 |
| P34 | 24.345 | | 0.721 | 0.279 | 0.751 | | -0.036 | 0.023 | | 0.001 | 1.040 | | 0.062 |
| P35 | 21.228 | | 0.559 | 0.441 | 0.896 | | 0.072 | 0.031 | | -0.001 | 1.320 | | 0.151 |
| P36 | 19.088 | | 0.447 | 0.553 | 0.912 | | 0.230 | 0.027 | | 0.007 | 1.140 | | 0.585 |
| P37 | 24.742 | | 0.742 | 0.258 | 0.649 | | 0.034 | 0.022 | | 0.000 | 0.823 | | 0.232 |
| P38 | 25.418 | | 0.777 | 0.223 | 0.632 | | -0.004 | 0.022 | | 0.000 | 0.909 | | 0.066 |
| P39 | 26.373 | | 0.827 | 0.173 | 0.604 | | -0.054 | 0.019 | | 0.001 | 0.826 | | 0.036 |
| P40 | 26.235 | | 0.820 | 0.180 | 0.515 | | 0.047 | 0.016 | | 0.004 | 0.758 | | 0.120 |
| P41 | 30.141 | | 1.023 | -0.023 | 0.257 | | -0.013 | 0.017 | | -0.006 | 0.404 | | 0.012 |
| P42 | 32.445 | | 1.143 | -0.143 | 0.080 | | -0.023 | 0.005 | | 0.001 | 0.159 | | -0.016 |
| P43 | 31.933 | | 1.116 | -0.116 | 0.114 | | -0.016 | 0.007 | | 0.000 | 0.199 | | 0.005 |
| P44 | 31.322 | | 1.084 | -0.084 | 0.169 | | -0.021 | 0.009 | | -0.001 | 0.276 | | 0.000 |
| P45 | 33.443 | | 1.195 | -0.195 | 0.043 | | -0.067 | 0.003 | | 0.001 | 0.114 | | -0.089 |