

# Supplementary Material

Schedule S1 Field questionnaire

| sampling point        | longitude  | latitude  | quad | Pixel type  | Land type                                  | Land name                                         | Ground material height (m) |
|-----------------------|------------|-----------|------|-------------|--------------------------------------------|---------------------------------------------------|----------------------------|
| North Dockyard Park-1 | 116.246114 | 39.986025 | 1-1  | pure pixel  | green area meadow                          | Lawn grass                                        | 0.1                        |
|                       | 116.246358 | 39.986236 | 1-2  | pure pixel  | green area arbor                           | Chinese scholartree                               | 8                          |
|                       | 116.246894 | 39.986494 | 1-3  | pure pixel  | green area arbor and meadow                | Oil pine + lawn grass                             | 6.5+0.1                    |
|                       | 116.248150 | 39.987086 | 1-4  | pure pixel  | green area arbor                           | Koelreuteria paniculata                           | 9                          |
|                       | 116.249369 | 39.987067 | 1-5  | mixed pixel | green area Irrigation grass                | forsythia ball + lawn grass                       | 1.3+0.1                    |
|                       |            |           |      |             | Non-green space Artificial veneer          | road                                              | 0                          |
|                       | 116.249489 | 39.986972 | 1-6  | pure pixel  | green area bush                            | Amur honeysuckle                                  | 3                          |
|                       | 116.251408 | 39.987033 | 1-7  | pure pixel  | green area bush                            | procumbent juniper                                | 1                          |
|                       | 116.251522 | 39.986983 | 1-8  | pure pixel  | green area arbor-shrub-grass compound land | Golden branch locust + red wood + Wolf tail grass | 7+1.8+0.8                  |
|                       |            |           |      |             | green area arbor                           | Salix babylonica                                  | 12                         |
|                       | 116.252694 | 39.986175 | 1-9  | mixed pixel | Non-green space Artificial veneer          | road                                              | 0                          |
|                       | 116.250992 | 39.985003 | 1-10 | pure pixel  | Non-green space wave                       | water                                             | 0                          |
|                       | 116.250683 | 39.986867 | 1-11 | pure pixel  | green area Irrigation grass                | Red leaf poplar + lawn grass                      | 2.5+0.1                    |
|                       | 116.250528 | 39.986775 | 1-12 | pure pixel  | green area arbor and meadow                | Poplar + lawn grass                               | 14+0.1                     |
|                       | 116.250228 | 39.986675 | 1-13 | pure pixel  | green area arbor                           | white wax                                         | 10                         |
|                       | 116.249564 | 39.986364 | 1-14 | pure pixel  | green area arbor and meadow                | Rash tree + lawn grass                            | 10+0.1                     |
|                       | 116.248739 | 39.986667 | 1-15 | pure pixel  | green area arbor and meadow                | Magnolia + lawn grass                             | 6+0.1                      |
|                       | 116.248297 | 39.986589 | 1-16 | pure pixel  | green area arbor and meadow                | Ginkgo + lawn grass                               | 6.5+0.1                    |
|                       | 116.247956 | 39.986739 | 1-17 | pure pixel  | green area arbor and meadow                | White bark pine + lawn grass                      | 5.5+0.1                    |
|                       | 116.247753 | 39.986517 | 1-18 | pure pixel  | green area arbor and meadow                | Begonia + lawn grass                              | 5.5+0.1                    |
|                       | 116.247239 | 39.986331 | 1-19 | pure pixel  | green area arbor                           | Purple leaf li                                    | 6                          |
|                       | 116.248294 | 39.986222 | 1-20 | pure pixel  | Non-green space Artificial veneer          | mat formation                                     | 0                          |
|                       | 116.246850 | 39.985906 | 1-21 | pure pixel  | green area Irrigation grass                | crape myrtle                                      | 14+0.1                     |
|                       | 116.247136 | 39.985650 | 1-22 | mixed pixel | green area bush                            | peach                                             | 4                          |

Paper chart statistics

| sampling point        | longitude  | latitude  | quad        | Pixel type      | Land type         | Land name         | Ground material height (m) |         |
|-----------------------|------------|-----------|-------------|-----------------|-------------------|-------------------|----------------------------|---------|
| North Dockyard Park-2 |            |           |             |                 | Non-green space   | Artificial veneer | mat formation              | 0       |
|                       | 116.247886 | 39.984489 | 1-23        | pure pixel      | green area        | arbor and meadow  | Suzuka + grass             | 11+0.1  |
|                       | 116.246833 | 39.985061 | 2-1         | pure pixel      | green area        | arbor             | Saliz matsudana            | 12      |
|                       | 116.247106 | 39.985247 | 2-2         | pure pixel      | green area        | arbor and meadow  | Elm + lawn grass           | 12+0.1  |
|                       | 116.247558 | 39.985369 | 2-3         | pure pixel      | green area        | Irrigation grass  | Penh boxwood + lawn grass  | 1.5+0.1 |
|                       | 116.248206 | 39.985753 | 2-4         | pure pixel      | green area        | Irrigation grass  | Lilac + lawn grass         | 4+0.1   |
|                       | 116.249183 | 39.986117 | 2-5         | pure pixel      | green area        | arbor             | poplar                     | 15      |
|                       | 116.249775 | 39.985708 | 2-6         | pure pixel      | green area        | arbor and meadow  | Buckeye + lawn grass       | 11+0.1  |
|                       | 116.249953 | 39.985803 | 2-7         | pure pixel      | Non-green space   | Artificial veneer | building                   | 8       |
|                       | 116.249125 | 39.985258 | 2-8         | pure pixel      | green area        | meadow            | rice field                 | 1       |
|                       | 116.247586 | 39.983589 | 2-9         | pure pixel      | green area        | arbor and meadow  | Huashan pine + lawn grass  | 6+0.1   |
|                       | 116.247744 | 39.983608 | 2-10        | pure pixel      | green area        | Irrigation grass  | Peachtree + lawn grass     | 3+0.1   |
|                       | 116.247947 | 39.983603 | 2-11        | pure pixel      | green area        | arbor             | elm                        | 10      |
|                       | 116.248178 | 39.983958 | 2-12        | pure pixel      | green area        | arbor             | acer truncatum             | 9       |
|                       |            |           |             |                 | green area        | arbor             | Chinese scholartree        | 12      |
|                       | 116.248200 | 39.982739 | 2-13        | mixed pixel     | Non-green space   | Artificial veneer | mat formation              | 0       |
|                       |            |           |             |                 | green area        | arbor             | paulownia                  | 15      |
|                       | 116.250872 | 39.984881 | 2-14        | mixed pixel     | Non-green space   | Artificial veneer | road                       | 0       |
|                       |            |           |             |                 | Non-green space   | Artificial veneer | road                       | 0       |
|                       | 116.251097 | 39.984797 | 2-15        | pure pixel      | Non-green space   | Artificial veneer | road                       | 0       |
|                       |            |           |             |                 | green area        | arbor             | Malus spectabilis          | 7       |
|                       | 116.251978 | 39.984156 | 2-16        | mixed pixel     | Non-green space   | Artificial veneer | road                       | 0       |
|                       |            |           |             |                 | Non-green space   | Artificial veneer | road                       | 0       |
|                       | 116.251572 | 39.983581 | 2-17        | pure pixel      | green area        | arbor             | Chinese scholartree        | 11      |
|                       | 116.250278 | 39.983000 | 2-18        | pure pixel      | green area        | bush              | rice field                 | 1       |
|                       | 116.249683 | 39.981811 | 2-19        | pure pixel      | green area        | arbor             | white wax                  | 12      |
|                       |            |           |             |                 | green area        | arbor and meadow  | Apricot + jade hairpin     | 8+0.4   |
| 116.249722            | 39.982089  | 2-20      | mixed pixel | Non-green space | Artificial veneer | road              | 0                          |         |
|                       |            |           |             | Non-green space | Artificial veneer | road              | 0                          |         |
| 116.250086            | 39.982611  | 2-21      | pure pixel  | green area      | arbor             | Saliz matsudana   | 16                         |         |

| sampling point               | longitude                  | latitude   | quad       | Pixel type  | Land type       |                   | Land name                     | Ground material height (m) |
|------------------------------|----------------------------|------------|------------|-------------|-----------------|-------------------|-------------------------------|----------------------------|
| Pingzhuan g Country Park- -1 | 116.250367                 | 39.982289  | 2-22       | pure pixel  | green area      | arbor             | Chinese pine                  | 6.5                        |
|                              | 116.249817                 | 39.982975  | 2-23       | mixed pixel | green area      | meadow            | rice field                    | 1                          |
|                              |                            |            |            |             | Non-green space | Artificial veneer | road                          | 0                          |
|                              | 116.249633                 | 39.983125  | 2-24       | pure pixel  | green area      | meadow            | reed                          | 2                          |
|                              | 116.235014                 | 39.944672  | 1-1        | pure pixel  | green area      | arbor             | sycamore                      | 12                         |
|                              | 116.235961                 | 39.944728  | 1-2        | pure pixel  | green area      | meadow            | plantago asitica Linn         | 0.1                        |
|                              | 116.236994                 | 39.944608  | 1-3        | pure pixel  | green area      | arbor and meadow  | Ginkgo + lawn grass           | 15.5+0.1                   |
|                              | 116.237544                 | 39.944506  | 1-4        | pure pixel  | green area      | arbor             | poplar                        | 14.5                       |
|                              | 116.237706                 | 39.943564  | 1-5        | pure pixel  | green area      | bush              | Lilac + pearl plum            | 3.5+1.5                    |
|                              | 116.236917                 | 39.943775  | 1-6        | pure pixel  | green area      | arbor             | White skin pine + elm         | 4.5+12                     |
|                              | 116.235417                 | 39.944175  | 1-7        | pure pixel  | Non-green space | Artificial veneer | mat formation                 | 0                          |
|                              | 116.234714                 | 39.944278  | 1-8        | pure pixel  | green area      | arbor             | lily magnolia                 | 8                          |
|                              | 116.234658                 | 39.943261  | 1-9        | pure pixel  | green area      | arbor             | white mulberry                | 9                          |
|                              | 116.235808                 | 39.943172  | 1-10       | pure pixel  | green area      | arbor             | ginkgo                        | 8.5                        |
|                              | 116.236447                 | 39.943100  | 1-11       | pure pixel  | green area      | arbor             | savin                         | 8                          |
|                              | 116.237256                 | 39.943075  | 1-12       | pure pixel  | green area      | arbor             | Purple leaf li                | 5.5                        |
|                              | 116.232336                 | 39.944708  | 2-1        | pure pixel  | green area      | arbor             | horse chestnut                | 9.5                        |
|                              | 116.232561                 | 39.944600  | 2-2        | pure pixel  | Non-green space | Artificial veneer | building                      | 6                          |
|                              | 116.232839                 | 39.944586  | 2-2        | pure pixel  | Non-green space | Artificial veneer | building                      | 6                          |
|                              | Pingzhuan g Country Park-2 | 116.232400 | 39.943817  | 2-3         | pure pixel      | green area        | arbor                         | Robinia pseudoacacia       |
| 116.233856                   |                            | 39.943817  | 2-4        | pure pixel  | green area      | arbor             | Chinese scholartree           | 10.5                       |
| 116.232317                   |                            | 39.942753  | 2-5        | pure pixel  | green area      | arbor             | elm                           | 11.5                       |
| 116.233842                   |                            | 39.943244  | 2-6        | pure pixel  | green area      | bush              | peach                         | 3.5                        |
| 116.232389                   |                            | 39.942178  | 2-7        | pure pixel  | green area      | arbor             | apricot                       | 6.5                        |
| 116.233567                   |                            | 39.942372  | 2-8        | pure pixel  | Non-green space | Artificial veneer | mat formation                 | 0                          |
| 116.232058                   |                            | 39.941511  | 2-9        | pure pixel  | green area      | arbor and meadow  | Purple leaf plum + lawn grass | 6+0.1                      |
| 116.233553                   |                            | 39.942242  | 2-10       | pure pixel  | green area      | arbor             | mandarin jacket + hawthorn    | 9.5+6                      |
| 116.232300                   | 39.941147                  | 2-11       | pure pixel | green area  | arbor           | Chinese pine      | 4.5                           |                            |

Paper chart statistics

| sampling point               | longitude  | latitude  | quad | Pixel type  | Land type       |                                 | Land name                                   | Ground material height (m) |
|------------------------------|------------|-----------|------|-------------|-----------------|---------------------------------|---------------------------------------------|----------------------------|
| Tamura Mass Culture Square-1 | 116.233628 | 39.941433 | 2-12 | pure pixel  | green area      | bush                            | rose                                        | 1.8                        |
|                              | 116.232219 | 39.940658 | 2-13 | pure pixel  | green area      | arbor                           | Saliz matsudana                             | 10                         |
|                              | 116.233686 | 39.940747 | 2-14 | pure pixel  | green area      | arbor                           | acer monoes                                 | 9                          |
|                              | 116.232139 | 39.940033 | 2-15 | pure pixel  | green area      | arbor                           | poplar                                      | 20                         |
|                              | 116.233636 | 39.940128 | 2-16 | pure pixel  | green area      | arbor and meadow                | Purple leaf plum + lawn grass               | 6+0.1                      |
|                              | 116.235258 | 39.934164 | 1-1  | pure pixel  | green area      | meadow                          | Qiu Ying                                    | 0.5                        |
|                              | 116.235286 | 39.934369 | 1-2  | pure pixel  | green area      | meadow                          | Qiu Ying                                    | 0.5                        |
|                              | 116.235392 | 39.933847 | 1-3  | pure pixel  | green area      | arbor                           | ginkgo                                      | 8                          |
|                              | 116.234825 | 39.933406 | 1-4  | pure pixel  | green area      | arbor                           | sycamore                                    | 7.5                        |
|                              | 116.234756 | 39.933008 | 1-5  | pure pixel  | green area      | arbor                           | White bark pine + round cypress + spruce    | 6+6+6                      |
|                              | 116.235517 | 39.933117 | 1-6  | pure pixel  | green area      | arbor                           | Round cypress + white skin pine             | 6+6                        |
|                              | 116.235536 | 39.933533 | 1-7  | pure pixel  | green area      | arbor                           | ginkgo                                      | 8                          |
|                              | 116.236297 | 39.932989 | 1-8  | pure pixel  | green area      | arbor                           | sycamore                                    | 13                         |
|                              | 116.236750 | 39.933447 | 1-9  | pure pixel  | Non-green space | Artificial veneer               | mat formation                               | 0                          |
|                              | 116.237081 | 39.933639 | 1-10 | pure pixel  | Non-green space | Artificial veneer               | building                                    | 8                          |
|                              | 116.237431 | 39.933806 | 1-11 | pure pixel  | Non-green space | Artificial veneer               | building                                    | 8                          |
|                              | 116.237225 | 39.933003 | 1-12 | mixed pixel | green area      | arbor-shrub-grass compound land | Magnolia + little leaf boxwood + day lilies | 10+0.8+0.4                 |
|                              |            |           |      |             | Non-green space | Artificial veneer               | road                                        | 0                          |
|                              | 116.237897 | 39.933028 | 1-13 | mixed pixel | green area      | arbor                           | Golden branch locust                        | 10.5                       |
|                              |            |           |      |             | Non-green space | Artificial veneer               | road                                        | 0                          |
|                              | 116.237842 | 39.933550 | 1-14 | pure pixel  | green area      | Irrigation grass                | Gold and silver wood + lawn grass           | 4.5+0.1                    |
|                              | 116.238297 | 39.933061 | 1-15 | pure pixel  | green area      | arbor                           | heaven tree                                 | 11                         |
|                              | 116.238192 | 39.933292 | 1-16 | pure pixel  | green area      | arbor                           | Chinese scholartree                         | 11                         |
|                              | 116.238692 | 39.933403 | 1-17 | pure pixel  | green area      | arbor                           | ginkgo                                      | 9.5                        |

| sampling point          | longitude  | latitude  | quad | Pixel type  | Land type       |                   | Land name                 | Ground material height (m) |
|-------------------------|------------|-----------|------|-------------|-----------------|-------------------|---------------------------|----------------------------|
| South Long River Park-1 | 116.238814 | 39.933028 | 1-18 | pure pixel  | green area      | arbor             | Thber + red spruce + toon | 6.5+6+8                    |
|                         | 116.290536 | 39.952961 | 1-1  | pure pixel  | green area      | arbor             | Chinese scholartree       | 11.5                       |
|                         | 116.291386 | 39.952194 | 1-2  | pure pixel  | green area      | arbor             | Salix babylonica          | 15.5                       |
|                         | 116.292303 | 39.951261 | 1-3  | pure pixel  | green area      | arbor             | poplar                    | 15.5                       |
|                         | 116.293350 | 39.950686 | 1-4  | pure pixel  | green area      | meadow            | white wax                 | 14.5                       |
|                         | 116.294292 | 39.950086 | 1-5  | pure pixel  | green area      | arbor             | Chinese scholartree       | 13.5                       |
|                         | 116.295767 | 39.949736 | 1-6  | pure pixel  | green area      | arbor             | poplar                    | 20                         |
|                         | 116.296539 | 39.949375 | 1-7  | mixed pixel | green area      | arbor             | Pinus bungedlna Zucc      | 8                          |
|                         |            |           |      |             | Non-green space | Artificial veneer | mat formation             | 0                          |
|                         | 116.297775 | 39.948703 | 1-8  | pure pixel  | green area      | bush              | Purple leaf peach         | 4.5                        |
|                         | 116.298625 | 39.947817 | 1-9  | pure pixel  | green area      | arbor             | deodar                    | 16                         |
|                         | 116.299636 | 39.946892 | 1-10 | pure pixel  | green area      | bush              | Malus spectabilis         | 6.5                        |
|                         | 116.300883 | 39.946264 | 1-11 | pure pixel  | green area      | arbor             | Koelreuteria paniculata   | 9.5                        |
|                         | 116.301714 | 39.945392 | 1-12 | pure pixel  | green area      | arbor             | sycamore                  | 15                         |
|                         | 116.302500 | 39.945222 | 1-13 | pure pixel  | green area      | arbor             | white wax                 | 14                         |
|                         | 116.303247 | 39.945086 | 1-14 | pure pixel  | green area      | arbor             | Saliz matsudana           | 15                         |
|                         | 116.291256 | 39.953542 | 2-1  | pure pixel  | green area      | arbor             | willow                    | 10.5                       |
|                         | 116.292239 | 39.953072 | 2-2  | pure pixel  | green area      | arbor             | Chinese scholartree       | 10.5                       |
|                         | 116.293336 | 39.952517 | 2-3  | pure pixel  | green area      | arbor             | Chinese pine              | 7.5                        |
|                         | 116.293536 | 39.952008 | 2-4  | pure pixel  | green area      | meadow            | Lawn grass                | 0.1                        |
|                         | 116.293453 | 39.951817 | 2-5  | pure pixel  | green area      | meadow            | Lawn grass                | 0.1                        |
|                         | 116.294164 | 39.951319 | 2-6  | pure pixel  | green area      | arbor             | Juniperus formosana       | 9.5                        |
| South Long River Park-2 | 116.295450 | 39.950761 | 2-7  | pure pixel  | green area      | arbor             | Koelreuteria paniculata   | 9.5                        |
|                         | 116.296731 | 39.949958 | 2-8  | pure pixel  | green area      | arbor             | willow                    | 10.5                       |
|                         | 116.298303 | 39.949628 | 2-9  | pure pixel  | green area      | arbor             | poplar                    | 20                         |
|                         | 116.298550 | 39.948981 | 2-10 | pure pixel  | green area      | bush              | Malus spectabilis         | 6                          |
|                         | 116.299172 | 39.948758 | 2-11 | pure pixel  | Non-green space | Artificial veneer | building                  | 5                          |
|                         | 116.299408 | 39.948478 | 2-12 | pure pixel  | Non-green space | Artificial veneer | building                  | 5                          |
|                         | 116.299558 | 39.948533 | 2-13 | pure pixel  | green area      | arbor             | paulownia                 | 14                         |

Paper chart statistics

| sampling point         | longitude  | latitude  | quad | Pixel type | Land type       |        | Land name                | Ground material height (m) |
|------------------------|------------|-----------|------|------------|-----------------|--------|--------------------------|----------------------------|
| Zizhuyuan Park- -1     | 116.300211 | 39.947953 | 2-14 | pure pixel | green area      | arbor  | white wax                | 11.5                       |
|                        | 116.301375 | 39.947169 | 2-15 | pure pixel | green area      | arbor  | Robinia pseudoacacia     | 11.5                       |
|                        | 116.301833 | 39.946747 | 2-16 | pure pixel | green area      | arbor  | white wax                | 11.5                       |
|                        | 116.302219 | 39.946283 | 2-17 | pure pixel | green area      | arbor  | Chinese scholartree      | 11.5                       |
|                        | 116.302219 | 39.946283 | 1-1  | pure pixel | green area      | arbor  | bamboo                   | 6.5                        |
|                        | 116.313781 | 39.943628 | 1-2  | pure pixel | green area      | arbor  | dawn redwood             | 20                         |
|                        | 116.314767 | 39.943750 | 1-3  | pure pixel | green area      | arbor  | deodar                   | 20                         |
|                        | 116.311406 | 39.942881 | 1-4  | pure pixel | green area      | arbor  | ginkgo                   | 18                         |
|                        | 116.314242 | 39.943142 | 1-5  | pure pixel | green area      | arbor  | Chinese pine             | 11                         |
|                        | 116.315431 | 39.943311 | 1-6  | pure pixel | green area      | arbor  | bass                     | 18.5                       |
|                        | 116.313664 | 39.942931 | 1-7  | pure pixel | green area      | arbor  | poplar                   | 23                         |
|                        | 116.311083 | 39.942583 | 1-8  | pure pixel | Non-green space | wave   | the surface of the water | 0                          |
|                        | 116.312008 | 39.941636 | 1-9  | pure pixel | Non-green space | wave   | the surface of the water | 0                          |
|                        | 116.313758 | 39.942078 | 1-10 | pure pixel | green area      | arbor  | Chinese pine             | 11                         |
|                        | 116.314442 | 39.941864 | 1-11 | pure pixel | green area      | arbor  | Chinese scholartree      | 12                         |
|                        | 116.315281 | 39.941572 | 1-12 | pure pixel | green area      | arbor  | ginkgo                   | 15                         |
|                        | 116.313056 | 39.941225 | 1-13 | pure pixel | green area      | arbor  | Eucommia ulmoides        | 16.5                       |
|                        | 116.313703 | 39.941100 | 1-14 | pure pixel | green area      | meadow | Pond lotus               | 0.5                        |
|                        | 116.315281 | 39.940722 | 1-15 | pure pixel | green area      | meadow | Pond lotus               | 0.5                        |
|                        | 116.315372 | 39.940819 | 1-16 | pure pixel | green area      | arbor  | Salix babylonica         | 13                         |
|                        | 116.314375 | 39.939847 | 2-1  | pure pixel | green area      | arbor  | acer truncatum           | 15                         |
|                        | 116.313100 | 39.939097 | 2-2  | pure pixel | green area      | arbor  | Juniperus formosana      | 9.5                        |
|                        | 116.315042 | 39.938478 | 2-3  | pure pixel | green area      | arbor  | heaven tree              | 13                         |
|                        | 116.317442 | 39.938311 | 2-4  | pure pixel | green area      | arbor  | Chinese white poplar     | 21                         |
| The Zizhuyuan Park- -2 | 116.315739 | 39.939447 | 2-5  | pure pixel | green area      | arbor  | sycamore                 | 21                         |
|                        | 116.316842 | 39.940056 | 2-6  | pure pixel | green area      | arbor  | Saliz matsudana          | 16                         |
|                        | 116.317611 | 39.939689 | 2-7  | pure pixel | green area      | arbor  | ginkgo                   | 16                         |
|                        | 116.317917 | 39.939097 | 2-8  | pure pixel | green area      | meadow | Lawn grass               | 0.1                        |
| Chaoyang Park-1        | 116.318172 | 39.938283 | 2-9  | pure pixel | green area      | arbor  | Koelreuteria paniculata  | 18                         |
|                        | 116.470628 | 39.944108 | 1-1  | pure pixel | green area      | arbor  | poplar                   | 22                         |

| sampling point      | longitude  | latitude  | quad | Pixel type | Land type       |                   | Land name                | Ground material height (m) |
|---------------------|------------|-----------|------|------------|-----------------|-------------------|--------------------------|----------------------------|
| Chaoyang Park-2     | 116.471764 | 39.944219 | 1-2  | pure pixel | green area      | arbor             | Saliz matsudana          | 17                         |
|                     | 116.472853 | 39.943972 | 1-3  | pure pixel | green area      | arbor             | white wax                | 15                         |
|                     | 116.472586 | 39.942892 | 1-4  | pure pixel | green area      | arbor             | meadow                   | 0.1                        |
|                     | 116.471742 | 39.943025 | 1-5  | pure pixel | green area      | arbor             | Chinese pine             | 6                          |
|                     | 116.470289 | 39.943294 | 1-6  | pure pixel | green area      | arbor             | Salix babylonica         | 18                         |
|                     | 116.470319 | 39.942225 | 1-7  | pure pixel | green area      | arbor             | Robinia pseudoacacia     | 15                         |
|                     | 116.471522 | 39.941922 | 1-8  | pure pixel | green area      | arbor and meadow  | Ginkgo + lawn grass      | 7+0.1                      |
|                     | 116.472381 | 39.941875 | 1-9  | pure pixel | green area      | arbor             | Eucommia ulmoides        | 12                         |
|                     | 116.474594 | 39.942736 | 1-10 | pure pixel | Non-green space | wave              | the surface of the water | 0                          |
|                     | 116.475372 | 39.942733 | 1-11 | pure pixel | Non-green space | wave              | the surface of the water | 0                          |
|                     | 116.479411 | 39.938117 | 2-1  | pure pixel | green area      | arbor             | poplar                   | 15.5                       |
|                     | 116.481914 | 39.938081 | 2-2  | pure pixel | green area      | arbor             | white wax                | 12.5                       |
|                     | 116.481497 | 39.939089 | 2-3  | pure pixel | green area      | arbor             | savin                    | 11                         |
|                     | 116.480522 | 39.939050 | 2-4  | pure pixel | green area      | arbor             | mountain peach           | 13                         |
|                     | 116.480514 | 39.939706 | 2-5  | pure pixel | green area      | arbor             | ginkgo                   | 15                         |
|                     | 116.478839 | 39.940478 | 2-6  | pure pixel | green area      | arbor             | elm                      | 20                         |
|                     | 116.479394 | 39.941567 | 2-7  | pure pixel | green area      | arbor             | Chinese pine             | 8.5                        |
|                     | 116.480836 | 39.941200 | 2-8  | pure pixel | green area      | arbor             | poplar                   | 20                         |
|                     | 116.481325 | 39.942158 | 2-9  | pure pixel | green area      | arbor             | sycamore                 | 16.5                       |
|                     | 116.480225 | 39.942389 | 2-10 | pure pixel | green area      | arbor             | deodar                   | 15.5                       |
|                     | 116.479444 | 39.942911 | 2-11 | pure pixel | green area      | arbor             | Koelreuteria paniculata  | 12                         |
|                     | 116.477478 | 39.942625 | 2-12 | pure pixel | Non-green space | Artificial veneer | Square pavement          | 0                          |
|                     | 116.476625 | 39.942836 | 2-13 | pure pixel | green area      | arbor             | Saliz matsudana          | 22                         |
|                     | 116.475786 | 39.942725 | 2-14 | pure pixel | green area      | arbor             | Purple leaf li           | 7                          |
| Tao Ran Ting Park-1 | 116.369874 | 39.871019 | 1-1  | pure pixel | green area      | arbor             | Ginkgo + willow          | 9+12                       |
|                     | 116.369925 | 39.870510 | 1-2  | pure pixel | green area      | arbor             | Koelreuteria paniculata  | 13                         |
|                     | 116.370849 | 39.871228 | 1-3  | pure pixel | green area      | arbor             | poplar                   | 17                         |
|                     | 116.370776 | 39.870286 | 1-4  | pure pixel | green area      | meadow            | Eucommia ulmoides        | 12                         |
|                     | 116.378107 | 39.872499 | 1-5  | pure pixel | Non-green space | wave              | the surface of the water | 0                          |

Paper chart statistics

| sampling point      | longitude  | latitude  | quad | Pixel type  | Land type       |                                 | Land name                                                                            | Ground material height (m) |
|---------------------|------------|-----------|------|-------------|-----------------|---------------------------------|--------------------------------------------------------------------------------------|----------------------------|
| Tao Ran Ting Park-2 | 116.371908 | 39.870590 | 1-6  | pure pixel  | green area      | arbor and meadow                | White pine + grass                                                                   | 8.5+0.1                    |
|                     | 116.372968 | 39.871234 | 1-7  | mixed pixel | green area      | arbor                           | Chinese scholar tree                                                                 | 13                         |
|                     |            |           |      |             | Non-green space | Artificial veneer               | Shop + pavilion                                                                      | 0+6                        |
|                     | 116.372980 | 39.870469 | 1-8  | pure pixel  | green area      | arbor                           | Locust tree + poplar + round cypress                                                 | 12+15+9                    |
|                     | 116.373710 | 39.871249 | 1-9  | mixed pixel | green area      | arbor                           | Elm + white pine                                                                     | 19+8                       |
|                     |            |           |      |             | Non-green space | Artificial veneer               | building                                                                             | 10                         |
|                     | 116.373743 | 39.870509 | 1-10 | mixed pixel | green area      | arbor-shrub-grass compound land | Locust tree + boxwood + lateral cypress + grass along the steps                      | 12+4+7+0.2                 |
|                     |            |           |      |             | Non-green space | Artificial veneer               | road                                                                                 | 0                          |
|                     | 116.375445 | 39.873205 | 2-1  | pure pixel  | green area      | arbor and meadow                | Acer + white bark pine + cypress + along the step                                    | 6+10+8+0.2                 |
|                     | 116.375948 | 39.873154 | 2-2  | pure pixel  | green area      | arbor and meadow                | White bark pine + sand cypress + along the step grass                                | 13+0.4+0.2                 |
|                     | 116.376493 | 39.873183 | 2-3  | mixed pixel | green area      | arbor-shrub-grass compound land | Round cypress + gold and silver wood + boxwood                                       | 11+4+1                     |
|                     |            |           |      |             | Non-green space | Artificial veneer               | mat formation                                                                        | 0                          |
|                     | 116.375459 | 39.872820 | 2-4  | pure pixel  | green area      | arbor                           | Pagoda tree + round cypress                                                          | 13+6                       |
|                     | 116.376039 | 39.872675 | 2-5  | pure pixel  | green area      | arbor and meadow                | Locust tree + scenery day                                                            | 15+0.5                     |
|                     | 116.377063 | 39.872640 | 2-6  | pure pixel  | green area      | arbor and meadow                | White bark pine + along the step grass                                               | 8+0.2                      |
|                     | 116.375388 | 39.872239 | 2-7  | pure pixel  | green area      | arbor-shrub-grass compound land | Round cypress + locust tree + dragon cypress + paved cypress + grass along the steps | 8+14+3+0.5                 |
|                     | 116.376041 | 39.872217 | 2-8  | mixed pixel | green area      | arbor-shrub-grass compound land | White bark pine + oil pine + boxwood ball + along the steps                          | 10+6+1.5+0.1               |
|                     |            |           |      |             | Non-green space | Artificial veneer               | mat formation                                                                        | 0                          |
|                     | 116.376589 | 39.872229 | 2-9  | pure pixel  | green area      | arbor                           | Pagoda tree + round cypress                                                          | 16+7                       |

| sampling point      | longitude  | latitude  | quad | Pixel type  | Land type       |                                 | Land name                                                      | Ground material height (m) |
|---------------------|------------|-----------|------|-------------|-----------------|---------------------------------|----------------------------------------------------------------|----------------------------|
| Lotus Pond Park- -1 | 116.305464 | 39.892254 | 1-1  | pure pixel  | green area      | trees and shrubs                | Bamboo + peach                                                 | 6+4                        |
|                     | 116.306557 | 39.892383 | 1-2  | mixed pixel | green area      | arbor and meadow                | Elm + willow + sword orchid                                    | 13+12+1.2                  |
|                     |            |           |      |             | Non-green space | wave                            | the surface of the water                                       | 0                          |
|                     | 116.305588 | 39.891754 | 1-3  | pure pixel  | green area      | trees and shrubs                | Begonia + cherry trees                                         | 7+5                        |
|                     | 116.306586 | 39.891910 | 1-4  | pure pixel  | green area      | arbor                           | bamboo                                                         | 6.5                        |
|                     | 116.305603 | 39.891305 | 1-5  | pure pixel  | green area      | Irrigation grass                | Oil pine + grass                                               | 2+0.05                     |
|                     | 116.306448 | 39.891427 | 1-6  | pure pixel  | green area      | arbor-shrub-grass compound land | Willow + ginkgo + peach tree + grass along the steps           | 14+9+2.5+0.2               |
|                     | 116.305496 | 39.890689 | 1-7  | pure pixel  | green area      | arbor                           | Koelreuteria paniculata                                        | 6                          |
|                     | 116.306686 | 39.890701 | 1-8  | pure pixel  | Non-green space | Artificial veneer               | Square pavement                                                | 0                          |
|                     | 116.305626 | 39.890183 | 1-9  | pure pixel  | green area      | trees and shrubs                | ingot maple + ginkgo + oil pine + white bark pine              | 7+8+2.5+4                  |
|                     | 116.306529 | 39.890123 | 1-10 | pure pixel  | green area      | Irrigation grass                | Pine + embroidered thread chrysanthemum + grass                | 2.5+1+0.1                  |
|                     | 116.307819 | 39.889598 | 2-1  | pure pixel  | green area      | arbor and meadow                | Luan tree + grass                                              | 6+0.2                      |
|                     | 116.314509 | 39.890814 | 2-2  | mixed pixel | green area      | bush                            | lotus                                                          | 1.5                        |
|                     |            |           |      |             | Non-green space | wave                            | the surface of the water                                       | 0                          |
| Lotus Pond Park- -2 | 116.309174 | 39.889760 | 2-3  | pure pixel  | green area      | arbor and meadow                | Locust tree + round cypress + five-leaf ground brocade         | 10+8+0.1                   |
|                     | 116.307768 | 39.889170 | 2-4  | pure pixel  | green area      | bush                            | White skin pine + clove                                        | 3+4                        |
|                     | 116.308396 | 39.889178 | 2-5  | mixed pixel | green area      | arbor-shrub-grass compound land | Willow + peach tree + sun chrysanthemum                        | 12+3+1.3                   |
|                     |            |           |      |             | Non-green space | Artificial veneer               | mat formation                                                  | 0                          |
|                     | 116.309318 | 39.888979 | 2-6  | pure pixel  | green area      | bush                            | Round cypress + large leaf boxwood + paved with ground cypress | 4+1+1.2                    |
|                     | 116.307715 | 39.888882 | 2-7  | pure pixel  | green area      | arbor-shrub-grass               | Sycamore + Acer ingot + bamboo + ophiopogon                    | 15+5+3+0.2                 |

Paper chart statistics

| sampling point                           | longitude  | latitude  | quad | Pixel type  | Land type                     | Land name                                        | Ground material height (m) |
|------------------------------------------|------------|-----------|------|-------------|-------------------------------|--------------------------------------------------|----------------------------|
| Beijing International Sculpture Park- -1 | 116.308618 | 39.888765 | 2-8  | pure pixel  | green area                    | compound land<br>arbor-shrub-grass compound land | 9+5+4+0.2                  |
|                                          | 116.309221 | 39.888820 | 2-9  | pure pixel  | green area                    | arbor-shrub-grass compound land                  | 14+2.5+0.2                 |
|                                          | 116.233119 | 39.905777 | 1-1  | pure pixel  | green area                    | arbor                                            | 14+9                       |
|                                          | 116.234346 | 39.905767 | 1-2  | pure pixel  | green area                    | arbor                                            | 14+8                       |
|                                          | 116.234106 | 39.905508 | 1-3  | pure pixel  | green area                    | arbor                                            | 15                         |
|                                          | 116.233143 | 39.905367 | 1-4  | mixed pixel | green area<br>Non-green space | arbor<br>Artificial veneer                       | 12<br>0                    |
|                                          | 116.233132 | 39.904802 | 1-5  | pure pixel  | green area                    | arbor                                            | 12+9                       |
|                                          | 116.234354 | 39.904874 | 1-6  | pure pixel  | green area                    | trees and shrubs                                 | 9+4                        |
|                                          | 116.240137 | 39.904174 | 1-7  | pure pixel  | green area                    | arbor and meadow                                 | 7+0.1                      |
|                                          | 116.233186 | 39.904272 | 1-8  | pure pixel  | green area                    | arbor and meadow                                 | 6+0.3                      |
|                                          | 116.233021 | 39.903612 | 1-9  | pure pixel  | green area                    | arbor                                            | 15+12                      |
|                                          | 116.234136 | 39.903591 | 1-10 | pure pixel  | green area                    | trees and shrubs                                 | 6+4                        |
|                                          | 116.242143 | 39.905748 | 2-1  | pure pixel  | green area                    | arbor                                            | 7+7                        |
|                                          | 116.242217 | 39.905139 | 2-2  | mixed pixel | green area<br>Non-green space | meadow<br>Artificial veneer                      | 0.6+0.1<br>0               |
|                                          | 116.242127 | 39.904354 | 2-3  | pure pixel  | green area                    | arbor and meadow                                 | 13+0.3                     |
|                                          | 116.243115 | 39.904320 | 2-4  | pure pixel  | green area                    | arbor                                            | 15+6.5                     |
|                                          | 116.243138 | 39.905224 | 2-5  | mixed pixel | green area<br>Non-green space | arbor<br>Artificial veneer                       | 12<br>4                    |
| Beijing International Sculpture Park- -2 | 116.243148 | 39.905698 | 2-6  | pure pixel  | green area                    | trees and shrubs                                 | 5+3.5+5+1.2                |
|                                          | 116.244116 | 39.905765 | 2-7  | pure pixel  | green area                    | arbor-shrub-grass                                | 16+1.8+2+0.05              |

| sampling point    | longitude  | latitude  | quad | Pixel type  | Land type       |                                 | Land name                                                 | Ground material height (m) |
|-------------------|------------|-----------|------|-------------|-----------------|---------------------------------|-----------------------------------------------------------|----------------------------|
| Green Dike Park-1 |            |           |      |             |                 | compound land                   | + lilac + ryegrass                                        |                            |
|                   | 116.244135 | 39.905112 | 2-8  | pure pixel  | green area      | arbor and meadow                | Cedar + along the steps of grass                          | 10+0.2                     |
|                   | 116.244341 | 39.904399 | 2-9  | pure pixel  | Non-green space | Artificial veneer               | Square pavement                                           | 0                          |
|                   | 116.218710 | 39.840834 | 1-1  | pure pixel  | green area      | arbor                           | Chinese pine                                              | 8                          |
|                   | 116.219115 | 39.840868 | 1-2  | pure pixel  | green area      | arbor                           | Elm + Cotinus                                             | 11+8                       |
|                   | 116.219742 | 39.841126 | 1-3  | pure pixel  | green area      | trees and shrubs                | Locust tree + ingot maple + oil pine                      | 10+10+5                    |
|                   | 116.220025 | 39.840888 | 1-4  | pure pixel  | green area      | trees and shrubs                | Willow + tabulaeformis + purple plum + locust tree        | 12+8+1.8+11                |
|                   | 116.219355 | 39.840689 | 1-5  | pure pixel  | green area      | arbor-shrub-grass compound land | Elm + Pinus tabulaeformis + lilac + grass along the steps | 13+7+2.5+0.2               |
|                   | 116.218746 | 39.840460 | 1-6  | mixed pixel | green area      | trees and shrubs                | Pinus tabulaeformis + Chinese rose + dragon claw locust   | 6+1+3                      |
|                   |            |           |      |             | Non-green space | Artificial veneer               | road                                                      | 0                          |
|                   | 116.224939 | 39.841437 | 1-7  | pure pixel  | green area      | arbor                           | Oil pine + locust                                         | 7+8                        |
|                   | 116.219680 | 39.840383 | 1-8  | pure pixel  | green area      | arbor                           | white wax                                                 | 8.5                        |
|                   | 116.220204 | 39.840605 | 1-9  | mixed pixel | green area      | arbor-shrub-grass compound land | Chinese toon + ginkgo + grass                             | 10+9+0.1                   |
|                   |            |           |      |             | Non-green space | Artificial veneer               | building                                                  | 2                          |
|                   | 116.220192 | 39.838866 | 2-1  | pure pixel  | green area      | arbor                           | Elm + side cypress                                        | 13+6                       |
| Green Dike Park-2 | 116.221279 | 39.839390 | 2-2  | pure pixel  | green area      | arbor-shrub-grass compound land | Willow + lilac + embroidered thread chrysanthemum + iris  | 10+3+1.8+0.4               |
|                   | 116.221807 | 39.839686 | 2-3  | pure pixel  | green area      | arbor                           | white wax                                                 | 10                         |
|                   | 116.220552 | 39.838507 | 2-4  | mixed pixel | green area      | trees and shrubs                | Elm + locust                                              | 14+5                       |
|                   |            |           |      |             | Non-green space | Artificial veneer               | mat formation                                             | 0                          |
|                   | 116.221487 | 39.838758 | 2-5  | pure pixel  | green area      | arbor and meadow                | Side cypress + grass                                      | 6+0.1                      |
|                   | 116.222275 | 39.839267 | 2-6  | pure pixel  | green area      | trees and shrubs                | Poplar + side cypress                                     | 12+6                       |

Paper chart statistics

| sampling point | longitude  | latitude  | quad | Pixel type  | Land type       |                   | Land name                                           | Ground material height (m) |
|----------------|------------|-----------|------|-------------|-----------------|-------------------|-----------------------------------------------------|----------------------------|
| Yukang Park-1  | 116.220787 | 39.837977 | 2-7  | pure pixel  | green area      | arbor             | Elm + Luan paniculata + side cypress                | 15+6.5+6                   |
|                | 116.221716 | 39.838255 | 2-8  | pure pixel  | green area      | arbor             | Yuan treasure maple                                 | 9                          |
|                | 116.222716 | 39.838730 | 2-9  | pure pixel  | green area      | arbor             | Chinese toon + locust                               | 13+14                      |
|                | 116.272172 | 39.814732 | 1-1  | mixed pixel | green area      | arbor and meadow  | Suzuka + grass                                      | 9+0.1                      |
|                |            |           |      |             | Non-green space | Artificial veneer | mat formation                                       | 0                          |
|                | 116.272088 | 39.814259 | 1-2  | pure pixel  | green area      | trees and shrubs  | Oil pine + purple leaf plum                         | 6+5                        |
|                | 116.272118 | 39.813792 | 1-3  | pure pixel  | green area      | arbor             | Koelreuteria paniculata                             | 7                          |
|                | 116.272988 | 39.813839 | 1-4  | mixed pixel | green area      | trees and shrubs  | Willow + begonia + paved cypress                    | 12+6+1.2                   |
|                |            |           |      |             | Non-green space | Artificial veneer | road                                                | 0                          |
|                | 116.272948 | 39.814383 | 1-5  | pure pixel  | green area      | arbor             | Robinia pseudoacacia                                | 10                         |
|                | 116.272868 | 39.814977 | 1-6  | pure pixel  | green area      | bush              | Amur honeysuckle                                    | 3                          |
|                | 116.273726 | 39.815139 | 1-7  | pure pixel  | green area      | arbor             | Rob locust + white skin pine                        | 8+6                        |
|                | 116.273783 | 39.814458 | 1-8  | pure pixel  | green area      | trees and shrubs  | Silver white poplar + peach tree + purple leaf plum | 15+2.5+4                   |
|                | 116.273808 | 39.813898 | 1-9  | pure pixel  | green area      | trees and shrubs  | Elm + begonia                                       | 11+6                       |
|                | 116.274890 | 39.813144 | 2-1  | pure pixel  | green area      | trees and shrubs  | Pagoda tree + oil pine                              | 8+5                        |
|                | 116.274883 | 39.812640 | 2-2  | pure pixel  | green area      | arbor             | Pagoda tree + white wax                             | 10+9                       |
|                | 116.274944 | 39.812194 | 2-3  | pure pixel  | green area      | arbor             | Elm + tree of the flower paniculata + round cypress | 12+6+6                     |
| Yukang Park-2  | 116.275958 | 39.812265 | 2-4  | pure pixel  | green area      | arbor             | White wax + oil pine                                | 6+7.5                      |
|                | 116.275926 | 39.812816 | 2-5  | pure pixel  | green area      | bush              | White bark pine + Viburnum                          | 5+2                        |
|                | 116.275814 | 39.813463 | 2-6  | pure pixel  | green area      | arbor             | savin                                               | 6                          |
|                | 116.276675 | 39.813497 | 2-7  | pure pixel  | green area      | arbor             | poplar                                              | 17                         |
|                | 116.276682 | 39.812888 | 2-8  | pure pixel  | green area      | arbor             | Chinese toon + cedar                                | 8+9                        |
|                | 116.276682 | 39.812284 | 2-9  | pure pixel  | green area      | trees and shrubs  | White wax + canna                                   | 10+1.5                     |
| Haizi Park-1   | 116.342157 | 39.817363 | 1-1  | pure pixel  | green area      | trees and shrubs  | Round cypress + peach tree                          | 7.5+4                      |
|                | 116.341895 | 39.816757 | 1-2  | pure pixel  | green area      | trees and shrubs  | Yuanbao maple + gold and silver wood                | 9+2                        |
|                | 116.341992 | 39.816018 | 1-3  | pure pixel  | green area      | arbor             | Chinese pine                                        | 8                          |

| sampling point | longitude  | latitude  | quad | Pixel type  | Land type       |                                 | Land name                                               | Ground material height (m) |
|----------------|------------|-----------|------|-------------|-----------------|---------------------------------|---------------------------------------------------------|----------------------------|
| Haizi Park-2   | 116.342695 | 39.817476 | 1-4  | pure pixel  | green area      | arbor and meadow                | White pine + grass                                      | 5+0.1                      |
|                | 116.342587 | 39.816675 | 1-5  | pure pixel  | green area      | bush                            | White bark pine + embroidered thread chrysanthemum      | 5+2                        |
|                | 116.342649 | 39.815827 | 1-6  | pure pixel  | green area      | Irrigation grass                | Ploughed cypress + grass                                | 1+0.1                      |
|                | 116.343355 | 39.817459 | 1-7  | pure pixel  | green area      | arbor                           | Locust + poplar + Chinese toon                          | 10+15+15                   |
|                | 116.343432 | 39.816739 | 1-8  | mixed pixel | green area      | arbor                           | sycamore                                                | 10                         |
|                |            |           |      |             | Non-green space | Artificial veneer               | mat formation                                           | 0                          |
|                | 116.343469 | 39.815846 | 1-9  | pure pixel  | green area      | arbor                           | Oil pine + apricot tree                                 | 6+10                       |
|                | 116.348496 | 39.815869 | 2-1  | pure pixel  | Non-green space | wave                            | the surface of the water                                | 0                          |
|                | 116.342341 | 39.814215 | 2-2  | pure pixel  | green area      | arbor-shrub-grass compound land | Round cypress + peach tree + paved with cypress + grass | 7+2+0.6+0.1                |
|                |            |           |      |             |                 | arbor                           | Suspension Suzuki + Cedar                               | 15+7                       |
|                | 116.342984 | 39.814611 | 2-4  | pure pixel  | green area      | arbor-shrub-grass compound land | Sycamore + yellow thorn rose + dragon locust + grass    | 15+3+3+0.1                 |
|                | 116.342822 | 39.814232 | 2-5  | pure pixel  | green area      | meadow                          | meadow                                                  | 0.1                        |
|                |            |           |      |             | green area      | arbor                           | Locust tree + ingot maple + white wax                   | 15+12+12                   |
|                | 116.342874 | 39.813705 | 2-6  | mixed pixel | Non-green space | Artificial veneer               | road                                                    | 0                          |
|                | 116.343522 | 39.814554 | 2-7  | pure pixel  | green area      | arbor and meadow                | willow                                                  | 15+0.1                     |
|                | 116.343531 | 39.814114 | 2-8  | pure pixel  | green area      | arbor                           | sycamore                                                | 16                         |
| Nantako Park-1 | 116.343546 | 39.813687 | 2-9  | pure pixel  | green area      | arbor-shrub-grass compound land | Willow + lilac + grass                                  | 12+2+0.1                   |
|                | 116.469525 | 39.771312 | 1-1  | pure pixel  | green area      | arbor                           | willow                                                  | 16                         |
|                | 116.476674 | 39.772455 | 1-2  | pure pixel  | green area      | meadow                          | Iris tectorum Maxim                                     | 0.4                        |
|                | 116.471486 | 39.771179 | 1-3  | pure pixel  | green area      | trees and shrubs                | White skin pine + begonia                               | 6+4                        |
|                | 116.469464 | 39.770596 | 1-4  | pure pixel  | green area      | trees and shrubs                | Gold and silver wood + white bark pine                  | 5+6                        |
|                | 116.470563 | 39.770617 | 1-5  | pure pixel  | green area      | trees and shrubs                | Begonia + white skin pine                               | 5+6                        |
|                | 116.471524 | 39.770605 | 1-6  | pure pixel  | green area      | arbor                           | Pagoda tree + begonia                                   | 11+6                       |

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| sampling point | longitude  | latitude  | quad | Pixel type  | Land type       |                   | Land name                                       | Ground material height (m) |
|----------------|------------|-----------|------|-------------|-----------------|-------------------|-------------------------------------------------|----------------------------|
| Nantako Park-2 | 116.469664 | 39.769930 | 1-7  | pure pixel  | green area      | trees and shrubs  | Acer ingot + Pinus tabulaeformis + canna        | 11+9+1.5                   |
|                | 116.470730 | 39.770017 | 1-8  | pure pixel  | green area      | arbor             | Acer + oil pine                                 | 7+8                        |
|                | 116.471544 | 39.770038 | 1-9  | pure pixel  | green area      | arbor             | Acer ingot + cedar                              | 8+8                        |
|                | 116.470621 | 39.777157 | 2-1  | pure pixel  | Non-green space | wave              | the surface of the water                        | 0                          |
|                | 116.465243 | 39.776064 | 2-2  | pure pixel  | green area      | arbor             | Willow + round cypress                          | 13+7                       |
|                | 116.465763 | 39.775968 | 2-3  | pure pixel  | green area      | trees and shrubs  | Willow + forsythia                              | 14+2.2                     |
|                | 116.464537 | 39.775337 | 2-4  | mixed pixel | green area      | arbor             | elm                                             | 9                          |
|                |            |           |      |             | Non-green space | Artificial veneer | mat formation                                   | 0                          |
|                | 116.465160 | 39.775425 | 2-5  | pure pixel  | green area      | arbor             | Cedar + apricot tree                            | 8+6                        |
|                | 116.465856 | 39.775415 | 2-6  | pure pixel  | green area      | meadow            | meadow                                          | 0.1                        |
|                | 116.464599 | 39.774921 | 2-7  | pure pixel  | green area      | arbor             | Pinus bungedlna Zucc                            | 8                          |
|                | 116.465237 | 39.774800 | 2-8  | pure pixel  | green area      | arbor             | poplar                                          | 14                         |
|                | 116.465794 | 39.774770 | 2-9  | pure pixel  | green area      | arbor             | Cedar + suzuki                                  | 10+14                      |
|                | 116.456684 | 39.769730 | 3-1  | pure pixel  | green area      | arbor and meadow  | White wax + grass                               | 10+0.1                     |
|                | 116.457287 | 39.769882 | 3-2  | pure pixel  | green area      | arbor             | savin                                           | 9.5                        |
| Nantako Park-3 | 116.457933 | 39.769793 | 3-3  | pure pixel  | green area      | arbor and meadow  | Willow + grass                                  | 15+0.1                     |
|                | 116.456604 | 39.769255 | 3-4  | pure pixel  | green area      | arbor             | White skin pine + round cypress                 | 7+7                        |
|                | 116.457278 | 39.769316 | 3-5  | pure pixel  | Non-green space | Artificial veneer | pavilion                                        | 15                         |
|                | 116.457926 | 39.769377 | 3-6  | pure pixel  | green area      | trees and shrubs  | Luan tree + mulberry leaf red wood              | 10+1.5                     |
|                | 116.456495 | 39.768754 | 3-7  | pure pixel  | green area      | arbor             | Smelly toon + oil pine                          | 13+8                       |
| Hon Bo Park-1  | 116.457234 | 39.768742 | 3-8  | pure pixel  | green area      | arbor             | willow                                          | 14                         |
|                | 116.457913 | 39.768761 | 3-9  | pure pixel  | green area      | arbor and meadow  | Willow + sycamore + Pinus tabulaeformis + grass | 14+16+8+0.1                |
|                | 116.470264 | 39.823284 | 1-1  | pure pixel  | green area      | arbor             | Willow + peach tree                             | 13+6                       |
|                | 116.471294 | 39.823330 | 1-2  | pure pixel  | green area      | arbor             | savin                                           | 9                          |
|                | 116.472441 | 39.823467 | 1-3  | mixed pixel | green area      | arbor and meadow  | Round cypress + large leaf boxwood + grass      | 9+0.5+0.1                  |

| sampling point            | longitude  | latitude  | quad | Pixel type  | Land type       | Land name                       | Ground material height (m)                                 |           |
|---------------------------|------------|-----------|------|-------------|-----------------|---------------------------------|------------------------------------------------------------|-----------|
| Hongbo Park-2             | 116.470428 | 39.822614 | 1-4  | mixed pixel | Non-green space | Artificial veneer               | mat formation                                              | 0         |
|                           |            |           |      |             | green area      | arbor                           | Chinese toon + Luan tree + ginkgo biloba                   | 10+10+7   |
|                           |            |           |      |             | Non-green space | Artificial veneer               | mat formation                                              | 0         |
|                           |            |           |      |             | green area      | arbor                           | Poplar + round cypress                                     | 16+8      |
|                           | 116.471316 | 39.822745 | 1-5  | mixed pixel | Non-green space | Artificial veneer               | mat formation                                              | 0         |
|                           | 116.472549 | 39.822643 | 1-6  | pure pixel  | green area      | arbor                           | ginkgo                                                     | 11        |
|                           | 116.470359 | 39.822042 | 1-7  | pure pixel  | green area      | arbor                           | Ginkgo + linden tree                                       | 11+10     |
|                           | 116.471351 | 39.822028 | 1-8  | pure pixel  | green area      | arbor                           | Chinese white poplar                                       | 20        |
|                           | 116.472522 | 39.822020 | 1-9  | pure pixel  | green area      | trees and shrubs                | Ginkgo biloba + large leaf boxwood                         | 12+1      |
|                           | 116.470860 | 39.817120 | 2-1  | pure pixel  | green area      | arbor                           | elm                                                        | 18        |
|                           | 116.471908 | 39.816957 | 2-2  | pure pixel  | green area      | arbor-shrub-grass compound land | Hibiscus + ginkgo + grass                                  | 3+7+0.1   |
|                           | 116.478964 | 39.818043 | 2-3  | mixed pixel | green area      | Irrigation grass                | Reed + lotus                                               | 3+1.5     |
|                           |            |           |      |             | Non-green space | wave                            | the surface of the water                                   | 0         |
|                           |            |           |      |             | green area      | arbor                           | savin                                                      | 9         |
|                           |            |           |      |             | green area      | arbor                           | paper mulberry                                             | 14        |
|                           | 116.472462 | 39.816276 | 2-6  | pure pixel  | green area      | arbor                           | poplar                                                     | 22        |
|                           | 116.470802 | 39.815733 | 2-7  | pure pixel  | green area      | arbor                           | Elm + ginkgo                                               | 20+6      |
|                           | 116.471656 | 39.815714 | 2-8  | pure pixel  | green area      | arbor                           | Elm + structure tree                                       | 12+10     |
|                           | 116.472389 | 39.815614 | 2-9  | pure pixel  | green area      | arbor                           | paper mulberry                                             | 16        |
|                           | 116.570694 | 39.955713 | 1-1  | pure pixel  | green area      | bush                            | cherry                                                     | 2         |
| The Dongba Country Park-1 | 116.565738 | 39.954715 | 1-2  | pure pixel  | green area      | arbor and meadow                | White wax + Radix Radix paniculata + grass along the steps | 15+14+0.4 |
|                           | 116.566339 | 39.954831 | 1-3  | pure pixel  | green area      | Irrigation grass                | Peachtree + grass                                          | 4+0.1     |
|                           | 116.566417 | 39.954098 | 1-4  | pure pixel  | green area      | arbor                           | Pagoda tree + duzhong                                      | 15+12     |
|                           | 116.565744 | 39.953996 | 1-5  | pure pixel  | Non-green space | Artificial veneer               | mat formation                                              | 0         |

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| sampling point            | longitude  | latitude  | quad | Pixel type  | Land type                  |                                 | Land name                                                                                           | Ground material height (m) |
|---------------------------|------------|-----------|------|-------------|----------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------|
| The Dongba Country Park-2 | 116.564993 | 39.953954 | 1-6  | pure pixel  | green area                 | arbor and meadow                | White wax + Radix paniculata + sun chrysanthemum                                                    | 15+15+1                    |
|                           | 116.570775 | 39.954463 | 1-7  | pure pixel  | green area                 | bush                            | cherry                                                                                              | 2                          |
|                           | 116.565668 | 39.953481 | 1-8  | pure pixel  | green area                 | arbor                           | Wax + willow + Pinus tabulaeformis                                                                  | 12+14+8                    |
|                           | 116.566297 | 39.953520 | 1-9  | pure pixel  | green area                 | arbor                           | White bark pine + pinus tabulaeformis + cedar                                                       | 7+7+5                      |
|                           | 116.569789 | 39.951902 | 2-1  | pure pixel  | green area                 | arbor and meadow                | Oil pine + ginkgo + ash + silver hairpin Pinus                                                      | 9+10+10+0.25               |
|                           | 116.570566 | 39.951851 | 2-2  | pure pixel  | green area                 | arbor and meadow                | tabulaeformis + Chinese toon + iris                                                                 | 9+14+0.1                   |
|                           | 116.571377 | 39.951834 | 2-3  | pure pixel  | green area                 | arbor                           | ginkgo                                                                                              | 10                         |
|                           | 116.569792 | 39.951420 | 2-4  | pure pixel  | green area                 | arbor                           | Willow + oil pine                                                                                   | 13+8                       |
|                           | 116.570662 | 39.951320 | 2-5  | pure pixel  | green area                 | arbor and meadow                | Ginkgo + grassland                                                                                  | 10+0.1                     |
|                           | 116.571357 | 39.951229 | 2-6  | pure pixel  | green area                 | arbor and meadow                | Ginkgo + grassland                                                                                  | 10+0.2                     |
|                           | 116.569868 | 39.950802 | 2-7  | pure pixel  | green area                 | trees and shrubs                | ingot maple + pine + gold and silver wood                                                           | 10+8+5+4.5                 |
|                           | 116.570740 | 39.950820 | 2-8  | pure pixel  | green area                 | arbor-shrub-grass compound land | Ginkgo + gold and silver wood + hawthorn + sun chrysanthemum                                        | 10+4+1.8+1.2               |
|                           | 116.571368 | 39.950726 | 2-9  | pure pixel  | green area                 | arbor                           | Chinese scholar tree                                                                                | 16                         |
|                           | 116.524614 | 39.878247 | 1-1  | pure pixel  | green area                 | arbor                           | poplar                                                                                              | 21                         |
|                           | 116.524669 | 39.877681 | 1-2  | mixed pixel | green area Non-green space | arbor Artificial veneer         | Pagoda tree + ginkgo                                                                                | 12+12                      |
| Guta Park-1               | 116.524651 | 39.877239 | 1-3  | pure pixel  | green area                 | arbor                           | bare area                                                                                           | 0                          |
|                           | 116.525629 | 39.877225 | 1-4  | pure pixel  | green area                 | trees and shrubs                | Du Zhong + soap pod Large leaf boxwood ball + golden bell flower + elm leaf plum + purple leaf plum | 11+12                      |
|                           | 116.525487 | 39.877678 | 1-5  | pure pixel  | green area                 | arbor                           | Pagoda tree + poplar                                                                                | 2+1.6+3+7                  |
|                           | 116.525603 | 39.878312 | 1-6  | pure pixel  | green area                 | arbor                           | Poplar + round cypress                                                                              | 12+21                      |
|                           | 116.526377 | 39.878344 | 1-7  | pure pixel  | green area                 | bush                            | Purple leaf plum + peach tree                                                                       | 21+7                       |
|                           |            |           |      |             |                            |                                 |                                                                                                     | 4+4                        |

| sampling point             | longitude  | latitude  | quad | Pixel type  | Land type       |                                 | Land name                                                | Ground material height (m) |
|----------------------------|------------|-----------|------|-------------|-----------------|---------------------------------|----------------------------------------------------------|----------------------------|
| Guta Park-2                | 116.526275 | 39.877764 | 1-8  | pure pixel  | green area      | arbor                           | Chinese pine                                             | 6                          |
|                            | 116.526186 | 39.877295 | 1-9  | pure pixel  | green area      | trees and shrubs                | Ginkgo biloba + lilac + large leaf boxwood               | 12+5+1.2                   |
|                            | 116.536506 | 39.879159 | 2-1  | pure pixel  | Non-green space | wave                            | the surface of the water                                 | 0                          |
|                            | 116.530657 | 39.877384 | 2-2  | mixed pixel | green area      | arbor-shrub-grass compound land | Begonia + boxwood + rose + purple leaf berberry + papaya | 6+1+0.6+0.6+1.5            |
|                            |            |           |      |             | Non-green space | Artificial veneer               | Shop + high platform                                     | 0+0.5                      |
|                            | 116.530560 | 39.876836 | 2-3  | pure pixel  | green area      | bush                            | Amur honeysuckle                                         | 6                          |
|                            | 116.531371 | 39.876846 | 2-4  | pure pixel  | green area      | arbor and meadow                | Round cypress + ginkgo biloba + grass                    | 12+6+0.1                   |
|                            | 116.531347 | 39.877436 | 2-5  | mixed pixel | green area      | arbor                           | Begonia + dragon cypress                                 | 6+8.5                      |
|                            |            |           |      |             | Non-green space | Artificial veneer               | bare area                                                | 0                          |
|                            | 116.531293 | 39.878040 | 2-6  | pure pixel  | green area      | arbor and meadow                | Willow + round cypress + iris                            | 10+7+0.1                   |
|                            | 116.532067 | 39.878100 | 2-7  | pure pixel  | green area      | bush                            | Forsythia viridissima Lindl                              | 1.7                        |
|                            | 116.531999 | 39.877474 | 2-8  | pure pixel  | green area      | bush                            | Purple leaf li                                           | 2                          |
|                            | 116.532044 | 39.876837 | 2-9  | pure pixel  | green area      | arbor and meadow                | Round cypress + grass                                    | 9+0.1                      |
|                            | 116.410905 | 39.832258 | 1-1  | pure pixel  | green area      | trees and shrubs                | Wax + ginkgo + gold and silver wood + tree structure     | 10+9+4+11                  |
| Pomegranate Village Park-1 | 116.410900 | 39.831869 | 1-2  | mixed pixel | green area      | arbor and meadow                | Oil pine + grass                                         | 6+0.1                      |
|                            | 116.410946 | 39.831519 | 1-3  | pure pixel  | Non-green space | Artificial veneer               | rockery                                                  | 2                          |
|                            |            |           |      |             | green area      | arbor                           | Pagoda tree + round cypress                              | 14+6                       |
|                            | 116.411441 | 39.831475 | 1-4  | pure pixel  | green area      | arbor                           | Poplar + white wax                                       | 16+9                       |
|                            | 116.411490 | 39.831900 | 1-5  | pure pixel  | green area      | arbor                           | Chinese scholar tree                                     | 16                         |
|                            | 116.411513 | 39.832225 | 1-6  | pure pixel  | green area      | arbor                           | Elm + oil pine                                           | 16+5                       |
|                            | 116.412031 | 39.832250 | 1-7  | pure pixel  | green area      | arbor-shrub-grass compound land | Locust tree + hibiscus + grass                           | 16+2+0.1                   |
|                            | 116.411981 | 39.831947 | 1-8  | pure pixel  | green area      | arbor                           | Chinese scholar tree                                     | 16                         |
|                            | 116.412038 | 39.831563 | 1-9  | pure pixel  | green area      | arbor                           | white wax                                                | 16                         |

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| sampling point             | longitude  | latitude  | quad | Pixel type  | Land type       |                                   | Land name                                             | Ground material height (m) |
|----------------------------|------------|-----------|------|-------------|-----------------|-----------------------------------|-------------------------------------------------------|----------------------------|
| Pomegranate Village Park-2 | 116.419918 | 39.832780 | 2-1  | pure pixel  | green area      | arbor-shrub-grass compound land   | Cycypress + purple plum + pinus tabulaeformis + grass | 9+9+4+0.1                  |
|                            | 116.420654 | 39.832777 | 2-2  | pure pixel  | green area      | arbor-shrub-grass compound land   | Willow + cedar + gold and silver wood + grass         | 10+7+4+0.1                 |
|                            | 116.421170 | 39.832817 | 2-3  | pure pixel  | green area      | arbor and meadow trees and shrubs | Willow + grass                                        | 11+0.1                     |
|                            | 116.421268 | 39.832410 | 2-4  | mixed pixel | Non-green space | Artificial veneer                 | Wax + ginkgo + boxwood ball                           | 15+9+1.7+1.2               |
|                            |            |           |      |             |                 |                                   | road                                                  | 0                          |
|                            | 116.420630 | 39.832467 | 2-5  | pure pixel  | green area      | arbor                             | ginkgo                                                | 10                         |
|                            | 116.419922 | 39.832372 | 2-6  | pure pixel  | green area      | arbor                             | White wax + poplar                                    | 12+18                      |
|                            | 116.426097 | 39.831999 | 2-7  | pure pixel  | green area      | arbor                             | Willow + duzhong                                      | 15+10                      |
|                            | 116.420560 | 39.832065 | 2-8  | pure pixel  | green area      | arbor                             | White wax + round cypress                             | 12+7                       |
|                            | 116.427422 | 39.833438 | 2-9  | pure pixel  | green area      | arbor and meadow trees and shrubs | White wax + grass                                     | 12+0.1                     |
|                            | 116.430117 | 39.879426 | 1-1  | pure pixel  | green area      | arbor                             | Side cypress + brocade belt                           | 8+1.5                      |
|                            |            |           |      |             | green area      |                                   | Pagoda tree + round cypress                           | 11+7                       |
|                            | 116.430180 | 39.878952 | 1-2  | mixed pixel | Non-green space | Artificial veneer                 | Shop + pavilion                                       | 0+5                        |
|                            |            |           |      |             |                 |                                   | Walnut + round cypress + purple leaf plum             | 11+11+7                    |
| Longtan Park-1             | 116.430261 | 39.878487 | 1-3  | pure pixel  | green area      | arbor                             |                                                       |                            |
|                            | 116.430925 | 39.879511 | 1-4  | pure pixel  | green area      | arbor                             | Chinese scholar tree                                  | 16                         |
|                            |            |           |      |             | green area      | arbor                             | White wax + round cypress                             | 12+12                      |
|                            | 116.430934 | 39.879043 | 1-5  | mixed pixel | Non-green space | Artificial veneer                 | mat formation                                         | 0                          |
|                            | 116.430967 | 39.878520 | 1-6  | pure pixel  | green area      | arbor                             | Poplar + gold and silver wood + Begonia               | 23+6+8                     |
| Longtan Park-2             | 116.431625 | 39.879482 | 1-7  | pure pixel  | green area      | arbor-shrub-grass compound land   | Round cypress + elm plum + grass                      | 8+3+0.1                    |
|                            | 116.431695 | 39.879137 | 1-8  | pure pixel  | green area      | arbor                             | White wax + round cypress                             | 14+11+10                   |
|                            | 116.431796 | 39.878697 | 1-9  | pure pixel  | green area      | arbor                             | Peach + cypress                                       | 13+6                       |
|                            | 116.436161 | 39.878757 | 2-1  | pure pixel  | green area      | arbor                             | Poplar + cedar + purple leaf plum                     | 15+16+9                    |
|                            | 116.436889 | 39.878856 | 2-2  | mixed pixel | green area      | arbor                             | Pagoda tree + round cypress                           | 16+9                       |

| sampling point | longitude  | latitude  | quad | Pixel type  | Land type                  |                                 | Land name                                                          | Ground material height (m) |
|----------------|------------|-----------|------|-------------|----------------------------|---------------------------------|--------------------------------------------------------------------|----------------------------|
| Altar Park-1   |            |           |      |             | Non-green space            | Artificial veneer               | road                                                               | 0                          |
|                | 116.443589 | 39.880235 | 2-3  | pure pixel  | Non-green space            | wave                            | the surface of the water                                           | 0                          |
|                | 116.436191 | 39.878349 | 2-4  | pure pixel  | green area                 | trees and shrubs                | Cedar + round cypress + purple leaf plum + brocade chicken         | 14+8+6+0.5                 |
|                | 116.436853 | 39.878499 | 2-5  | pure pixel  | green area                 | arbor                           | white mulberry                                                     | 15                         |
|                | 116.437442 | 39.878553 | 2-6  | pure pixel  | green area                 | arbor                           | Du Zhong + purple leaf li                                          | 10+8                       |
|                | 116.436141 | 39.878013 | 2-7  | pure pixel  | green area                 | arbor                           | Chinese pine                                                       | 8.5                        |
|                | 116.436853 | 39.878028 | 2-8  | mixed pixel | green area                 | arbor-shrub-grass compound land | Dragon cypress + dragon locust + boxwood ball + along the grass    | 6+3+1.3+0.3                |
|                | 116.437450 | 39.878106 | 2-9  | pure pixel  | Non-green space green area | Artificial veneer               | road                                                               | 0                          |
|                | 116.436785 | 39.915915 | 1-1  | pure pixel  | green area                 | arbor                           | savin                                                              | 11                         |
|                | 116.436879 | 39.915456 | 1-2  | pure pixel  | green area                 | arbor and meadow                | Silcypress + Eucommia ulmoides + boxwood                           | 11+12+0.5                  |
|                | 116.436955 | 39.915169 | 1-3  | pure pixel  | green area                 | trees and shrubs                | Ginkgo biloba + bamboo + boxwood                                   | 14+5+1.5                   |
|                | 116.437471 | 39.915160 | 1-4  | mixed pixel | green area                 | arbor                           | Chinese pine                                                       | 9                          |
|                | 116.437471 | 39.915160 | 1-4  | mixed pixel | green area                 | trees and shrubs                | Oil pine + peony                                                   | 7+1                        |
|                | 116.437394 | 39.915526 | 1-5  | pure pixel  | Non-green space            | Artificial veneer               | mat formation                                                      | 0                          |
|                | 116.437394 | 39.915526 | 1-5  | pure pixel  | green area                 | trees and shrubs                | Round cypress + bamboo + elm leaf plum                             | 12+7+2                     |
|                | 116.437352 | 39.915882 | 1-6  | mixed pixel | green area                 | arbor-shrub-grass compound land | Silk cotton wood + oil + pine + bamboo + boxwood + a string of red | 10.5+8+3+0.8+0.4           |
|                | 116.438025 | 39.915955 | 1-7  | pure pixel  | Non-green space green area | Artificial veneer               | mat formation                                                      | 0                          |
|                | 116.438025 | 39.915955 | 1-7  | pure pixel  | green area                 | arbor                           | Poplar + locust tree                                               | 23+15                      |
|                | 116.437928 | 39.915564 | 1-8  | mixed pixel | green area                 | arbor and meadow                | Round cypress + boxwood + grass                                    | 12+0.5+0.1                 |
|                | 116.437979 | 39.915151 | 1-9  | pure pixel  | Non-green space green area | Artificial veneer               | mat formation                                                      | 0                          |
|                | 116.437979 | 39.915151 | 1-9  | pure pixel  | green area                 | arbor and meadow                | Walnut + grass                                                     | 12+0.1                     |

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| sampling point  | longitude  | latitude  | quad | Pixel type      | Land type         |                                 | Land name                                             | Ground material height (m) |
|-----------------|------------|-----------|------|-----------------|-------------------|---------------------------------|-------------------------------------------------------|----------------------------|
| Altar Park-2    | 116.435706 | 39.914267 | 2-1  | pure pixel      | green area        | trees and shrubs                | Oil pine + dragon claw locust                         | 10+5                       |
|                 | 116.435667 | 39.913679 | 2-2  | pure pixel      | green area        | arbor and meadow                | Trees + round cypress + grass                         | 10+12+0.1                  |
|                 | 116.435850 | 39.913105 | 2-3  | mixed pixel     | green area        | bush                            | Chinese pagoda tree                                   | 3                          |
|                 | 116.436763 | 39.912975 | 2-4  | pure pixel      | Non-green space   | wave                            | the surface of the water                              | 0                          |
|                 | 116.436750 | 39.913609 | 2-5  | mixed pixel     | green area        | bush                            | Dragon claw locust + lilac                            | 3+2.5                      |
|                 |            |           |      |                 | Non-green space   | Artificial veneer               | pavilion                                              | 6                          |
|                 |            |           |      |                 | Non-green space   | Artificial veneer               | mat formation                                         | 0                          |
|                 | 116.436732 | 39.914276 | 2-6  | pure pixel      | green area        | arbor-shrub-grass compound land | Locust tree + side cypress + forsythia + grass        | 15+10+4.5+0.1              |
|                 | 116.437458 | 39.914258 | 2-7  | pure pixel      | green area        | arbor and meadow                | White wax + locust tree + Pinus tabulaeformis + grass | 8.5+14+8.5+0.1             |
|                 | 116.437440 | 39.913751 | 2-8  | mixed pixel     | green area        | arbor                           | Cedar + cypress                                       | 9+11                       |
| Jingshan Park-1 | 116.437384 | 39.913032 | 2-9  | pure pixel      | Non-green space   | Artificial veneer               | mat formation                                         | 0                          |
|                 | 116.390975 | 39.922775 | 1-1  | pure pixel      | green area        | arbor                           | poplar                                                | 23                         |
|                 |            |           |      |                 | green area        | arbor                           | White skin pine + round cypress                       | 10+12                      |
|                 | 116.391055 | 39.922248 | 1-2  | pure pixel      | green area        | arbor and meadow                | Green + round cypress + bamboo + boxwood + lawn grass | 9+9+6.5+0.8+0.1            |
|                 | 116.391658 | 39.922795 | 1-3  | pure pixel      | green area        | trees and shrubs                | Cedar + round cypress + metasequoia + boxwood         | 16+15+17+1                 |
|                 | 116.391706 | 39.922241 | 1-4  | pure pixel      | green area        | arbor                           | Ginkgo + clove                                        | 12+10                      |
|                 | 116.392115 | 39.922747 | 1-5  | pure pixel      | green area        | trees and shrubs                | Cedar + round cypress + peony                         | 16+12+1                    |
|                 | 116.392189 | 39.922261 | 1-6  | pure pixel      | green area        | arbor and meadow                | cypress + pine + boxwood                              | 13+11+0.6                  |
|                 | 116.392771 | 39.922787 | 1-7  | pure pixel      | green area        | arbor-shrub-grass compound land | Locust tree + round cypress + lilac + peony + boxwood | 13+14+5+1.6+0.8            |
|                 | 116.392687 | 39.922309 | 1-8  | mixed pixel     | green area        | arbor and meadow                | Round cypress + boxwood                               | 14+0.8                     |
|                 |            |           |      | Non-green space | Artificial veneer | road                            | 0                                                     |                            |

| sampling point      | longitude  | latitude  | quad | Pixel type  | Land type       |                   | Land name                                    | Ground material height (m) |
|---------------------|------------|-----------|------|-------------|-----------------|-------------------|----------------------------------------------|----------------------------|
| Jingshan Park-2     | 116.388201 | 39.924597 | 2-1  | pure pixel  | green area      | arbor             | savin                                        | 11                         |
|                     | 116.388332 | 39.924278 | 2-2  | mixed pixel | green area      | arbor and meadow  | Purple leaf plum + peony                     | 8+1.5                      |
|                     |            |           |      |             | Non-green space | Artificial veneer | mat formation                                | 0                          |
|                     | 116.388273 | 39.923924 | 2-3  | mixed pixel | green area      | arbor             | Persimmon tree + round cypress               | 10+11                      |
|                     |            |           |      |             | Non-green space | Artificial veneer | road                                         | 0                          |
|                     | 116.388778 | 39.924855 | 2-4  | pure pixel  | green area      | trees and shrubs  | Poplar poplar + round cypress + bamboo       | 22+10+4                    |
|                     | 116.388848 | 39.924430 | 2-5  | pure pixel  | green area      | arbor             | savin                                        | 16                         |
|                     | 116.388921 | 39.924041 | 2-6  | pure pixel  | green area      | trees and shrubs  | Cotinus + peony                              | 17+6.5+1                   |
|                     | 116.389346 | 39.924975 | 2-7  | pure pixel  | green area      | arbor             | Locust tree + round cypress + peach tree     | 12+12+5                    |
|                     | 116.389506 | 39.924509 | 2-8  | pure pixel  | green area      | arbor             | savin                                        | 16                         |
|                     | 116.389557 | 39.924043 | 2-9  | pure pixel  | green area      | arbor             | walnut tree                                  | 16.5                       |
|                     | 116.397255 | 39.958874 | 1-1  | pure pixel  | green area      | arbor             | willow                                       | 17                         |
|                     | 116.397718 | 39.958846 | 1-2  | pure pixel  | green area      | arbor             | Poplar + round cypress                       | 23+14                      |
|                     | 116.404507 | 39.960226 | 1-3  | pure pixel  | Non-green space | Artificial veneer | building                                     | 3.5                        |
| Willow shade park-1 | 116.397222 | 39.958482 | 1-4  | pure pixel  | green area      | arbor             | Saliz matsudana                              | 17                         |
|                     | 116.397766 | 39.958541 | 1-5  | pure pixel  | green area      | arbor             | Oil pine + plum tree                         | 13+6+6.5                   |
|                     | 116.398289 | 39.958513 | 1-6  | mixed pixel | green area      | arbor             | willow                                       | 16.5                       |
|                     |            |           |      |             | Non-green space | Artificial veneer | mat formation                                | 0                          |
|                     |            |           |      |             | green area      | arbor and meadow  | Willow + grass                               | 18+0.1                     |
|                     | 116.397149 | 39.958101 | 1-7  | mixed pixel | Non-green space | Artificial veneer | road                                         | 0                          |
|                     | 116.397703 | 39.958100 | 1-8  | pure pixel  | Non-green space | Artificial veneer | mat formation                                | 0                          |
| Willow shade park-2 | 116.398283 | 39.958069 | 1-9  | mixed pixel | green area      | arbor             | Deping willows + dry willows + apricot trees | 11+16+7                    |
|                     |            |           |      |             | Non-green space | Artificial veneer | road                                         | 0                          |
|                     | 116.395235 | 39.960495 | 2-1  | mixed pixel | green area      | arbor             | willow                                       | 13                         |
|                     |            |           |      |             | Non-green space | Artificial veneer | mat formation                                | 0                          |

Paper chart statistics

| sampling point         | longitude  | latitude  | quad       | Pixel type  | Land type        |                                     | Land name                                                         | Ground material height (m) |
|------------------------|------------|-----------|------------|-------------|------------------|-------------------------------------|-------------------------------------------------------------------|----------------------------|
| Yuan Dadu Ruins Park-1 | 116.395356 | 39.959988 | 2-2        | pure pixel  | green area       | arbor                               | Willow tree + locust tree + round cypress                         | 16+14+8.5                  |
|                        | 116.395392 | 39.959541 | 2-3        | pure pixel  | green area       | arbor                               | Chinese toon + round cypress + white bark pine + purple leaf plum | 14+8+11+6                  |
|                        | 116.395989 | 39.959585 | 2-4        | pure pixel  | green area       | trees and shrubs                    | Willow + Pinus tabulaeformis + bamboo                             | 13+8+4                     |
|                        | 116.402212 | 39.961459 | 2-5        | pure pixel  | Non-green space  | wave                                | the surface of the water                                          | 0                          |
|                        | 116.396016 | 39.960509 | 2-6        | pure pixel  | green area       | arbor                               | Willow + round cypress                                            | 15+8.5                     |
|                        | 116.396619 | 39.960536 | 2-7        | mixed pixel | green area       | meadow                              | Chinese littleleaf box                                            | 0.8                        |
|                        | 116.402904 | 39.961379 | 2-8        | pure pixel  | Non-green space  | Artificial veneer                   | road                                                              | 0                          |
|                        | 116.396674 | 39.959473 | 2-9        | mixed pixel | Non-green space  | wave                                | the surface of the water                                          | 0                          |
|                        | 116.396674 | 39.959473 | 2-9        | mixed pixel | green area       | trees and shrubs                    | Willow + gold and silver wood                                     | 17+2.5                     |
|                        | 116.396674 | 39.959473 | 2-9        | mixed pixel | Non-green space  | Artificial veneer                   | road                                                              | 0                          |
|                        | 116.389418 | 39.975018 | 1-1        | pure pixel  | green area       | arbor-shrub-grass compound land     | Ginkgo biloba + ash + begonia + grass                             | 13+10+4+0.1                |
|                        | 116.390363 | 39.974980 | 1-2        | mixed pixel | green area       | arbor                               | poplar                                                            | 12.5                       |
|                        | 116.390363 | 39.974980 | 1-2        | mixed pixel | Non-green space  | Artificial veneer                   | road                                                              | 0                          |
|                        | 116.391521 | 39.974998 | 1-3        | pure pixel  | green area       | arbor                               | Willow + begonia                                                  | 11+6                       |
|                        | 116.392790 | 39.975077 | 1-4        | pure pixel  | Non-green space  | Artificial veneer                   | mat formation                                                     | 0                          |
|                        | 116.393767 | 39.975088 | 1-5        | pure pixel  | green area       | arbor                               | Willow + begonia                                                  | 12+6.5                     |
|                        | 116.393779 | 39.974271 | 1-6        | pure pixel  | green area       | trees and shrubs                    | Luanshu + boxwood ball                                            | 10+1.3                     |
|                        | 116.392815 | 39.974337 | 1-7        | pure pixel  | green area       | arbor                               | Chinese pine                                                      | 8.5                        |
|                        | 116.391506 | 39.974257 | 1-8        | pure pixel  | green area       | arbor                               | Chinese scholar tree                                              | 14                         |
|                        | 116.390450 | 39.974355 | 1-9        | pure pixel  | green area       | arbor                               | poplar                                                            | 25                         |
| 116.389504             | 39.974293  | 1-10      | pure pixel | green area  | trees and shrubs | Locust tree + walnut + boxwood ball | 8+8+1.5                                                           |                            |
| Yuan Dadu Ruins Park-2 | 116.399086 | 39.975026 | 2-1        | pure pixel  | green area       | arbor                               | Malus spectabilis                                                 | 8                          |
|                        | 116.398023 | 39.975075 | 2-2        | pure pixel  | green area       | arbor                               | willow                                                            | 17                         |

| sampling point                        | longitude  | latitude  | quad | Pixel type  | Land type       |                   | Land name                                                | Ground material height (m) |
|---------------------------------------|------------|-----------|------|-------------|-----------------|-------------------|----------------------------------------------------------|----------------------------|
| The Olympic Forest Park, South Park-1 | 116.397087 | 39.975012 | 2-3  | mixed pixel | green area      | bush              | Malus spectabilis                                        | 4                          |
|                                       |            |           |      |             | Non-green space | Artificial veneer | Shop + high platform                                     | 0+0.3                      |
|                                       | 116.396390 | 39.975068 | 2-4  | pure pixel  | green area      | arbor             | Begonia + cypress                                        | 9+8.5                      |
|                                       | 116.396291 | 39.974312 | 2-5  | pure pixel  | green area      | arbor             | Chinese pine                                             | 9                          |
|                                       |            |           |      |             | green area      | arbor             | Elm + oil pine                                           | 13+7                       |
|                                       | 116.397013 | 39.974352 | 2-6  | mixed pixel | Non-green space | Artificial veneer | Road + soil bag                                          | 0+1                        |
|                                       | 116.397961 | 39.974442 | 2-7  | pure pixel  | green area      | arbor             | White wax + oil pine                                     | 14+7                       |
|                                       | 116.399064 | 39.974341 | 2-8  | pure pixel  | green area      | arbor             | Pagoda tree + oil pine                                   | 14+13                      |
|                                       | 116.382270 | 40.010823 | 1-1  | pure pixel  | green area      | arbor             | Poplar + luanshu                                         | 23+18                      |
|                                       | 116.383095 | 40.010801 | 1-2  | pure pixel  | Non-green space | Artificial veneer | mat formation                                            | 0                          |
|                                       | 116.384011 | 40.010939 | 1-3  | pure pixel  | green area      | arbor             | Oil pine + ginkgo biloba                                 | 8+9                        |
|                                       |            |           |      |             | green area      | arbor             | willow                                                   | 15                         |
|                                       | 116.383938 | 40.010310 | 1-4  | mixed pixel | Non-green space | Artificial veneer | road                                                     | 0                          |
|                                       | 116.383106 | 40.010288 | 1-5  | pure pixel  | green area      | meadow            | Lawn grass                                               | 0.1                        |
|                                       | 116.382261 | 40.010242 | 1-6  | pure pixel  | green area      | arbor             | white wax                                                | 14                         |
|                                       |            |           |      |             | green area      | arbor             | Chinese scholar tree                                     | 15                         |
|                                       | 116.382255 | 40.009698 | 1-7  | mixed pixel | Non-green space | Artificial veneer | road                                                     | 0                          |
|                                       |            |           |      |             |                 |                   | Locust tree + Pinus tabulaeformis + gold and silver wood | 10+8+7+4                   |
|                                       | 116.383167 | 40.009556 | 1-8  | pure pixel  | green area      | trees and shrubs  |                                                          |                            |
|                                       | 116.384056 | 40.009628 | 1-9  | pure pixel  | green area      | arbor             | Pagoda tree + oil pine                                   | 12+7                       |
| Olympic Forest Park South Park-2      | 116.386676 | 40.018722 | 2-1  | pure pixel  | green area      | bush              | reed                                                     | 3                          |
|                                       | 116.381384 | 40.017410 | 2-2  | pure pixel  | green area      | arbor             | white wax                                                | 13                         |
|                                       | 116.382461 | 40.017447 | 2-3  | pure pixel  | green area      | arbor             | Platycladus orientalis                                   | 8                          |
|                                       | 116.382380 | 40.016479 | 2-4  | pure pixel  | green area      | arbor             | Platycladus orientalis                                   | 8                          |
|                                       | 116.381427 | 40.016675 | 2-5  | pure pixel  | green area      | arbor             | Chinese scholar tree                                     | 15                         |
|                                       | 116.380507 | 40.016510 | 2-6  | pure pixel  | green area      | trees and shrubs  | Round cypress + gold and silver wood                     | 9+3                        |
|                                       | 116.380536 | 40.015833 | 2-7  | pure pixel  | green area      | arbor             | Oil pine + Cotinus                                       | 8.5+6.5                    |

Paper chart statistics

| sampling point                   | longitude  | latitude  | quad | Pixel type  | Land type       |                                 | Land name                                             | Ground material height (m) |
|----------------------------------|------------|-----------|------|-------------|-----------------|---------------------------------|-------------------------------------------------------|----------------------------|
| Olympic Forest Park North Park-1 | 116.381582 | 40.015793 | 2-8  | pure pixel  | green area      | trees and shrubs                | Chinese toon + embroidered line chrysanthemum         | 8.5+2.5                    |
|                                  | 116.382427 | 40.015772 | 2-9  | pure pixel  | green area      | arbor                           | Chinese pine                                          | 7                          |
|                                  | 116.382987 | 40.024150 | 3-1  | pure pixel  | green area      | arbor                           | Chinese scholar tree                                  | 15                         |
|                                  | 116.383919 | 40.024094 | 3-2  | pure pixel  | green area      | arbor                           | acer truncatum                                        | 15                         |
|                                  | 116.384806 | 40.024113 | 3-3  | pure pixel  | green area      | meadow                          | Lawn grass                                            | 0.1                        |
|                                  | 116.384814 | 40.023424 | 3-4  | pure pixel  | green area      | arbor                           | Willow + oil pine                                     | 13+8                       |
|                                  | 116.383957 | 40.023479 | 3-5  | pure pixel  | green area      | arbor-shrub-grass compound land | Ginkgo biloba + Ditang + lawn grass                   | 8.5+2+0.1                  |
|                                  | 116.383070 | 40.023424 | 3-6  | pure pixel  | green area      | arbor and meadow                | Oil pine + lawn grass                                 | 5.5+0.1                    |
|                                  | 116.383001 | 40.022794 | 3-7  | pure pixel  | green area      | arbor                           | white wax                                             | 12                         |
|                                  | 116.383887 | 40.022788 | 3-8  | pure pixel  | green area      | trees and shrubs                | Tree + peach + elm leaf plum                          | 8+8+1.8                    |
|                                  | 116.384870 | 40.022870 | 3-9  | pure pixel  | green area      | arbor-shrub-grass compound land | Dry willow + cherry + lawn grass                      | 11+6+0.1                   |
|                                  | 116.375052 | 40.027075 | 4-1  | mixed pixel | green area      | trees and shrubs                | Elm + ginkgo + Pinus tabulaeformis + rose             | 12+8+6+2                   |
|                                  | 116.375736 | 40.027147 | 4-2  | pure pixel  | Non-green space | Artificial veneer               | road                                                  | 0                          |
|                                  | 116.376504 | 40.027141 | 4-3  | pure pixel  | green area      | arbor                           | Koelreuteria paniculata                               | 9                          |
| Olympic Forest Park North Park-2 | 116.376518 | 40.025726 | 4-4  | pure pixel  | green area      | trees and shrubs                | Elm + apricot tree + elm leaf plum                    | 11+7+2                     |
|                                  | 116.376518 | 40.025726 | 4-4  | pure pixel  | green area      | arbor-shrub-grass compound land | Persimmon tree + elm seedling + grass                 | 8+1.5+0.1                  |
|                                  | 116.375814 | 40.026551 | 4-5  | pure pixel  | green area      | arbor and meadow                | Apricot + grass                                       | 6+0.1                      |
|                                  | 116.381252 | 40.027832 | 4-6  | pure pixel  | Non-green space | wave                            | the surface of the water                              | 0                          |
|                                  | 116.375137 | 40.025735 | 4-7  | pure pixel  | green area      | trees and shrubs                | Heliculata + Pinus tabulaeformis + lilac              | 12+4+2                     |
|                                  | 116.375801 | 40.025810 | 4-8  | pure pixel  | green area      | trees and shrubs                | Locust tree + pinus tabulaeformis + Holly guard spear | 10+6+1.5                   |

| sampling<br>point | longitude      | latitude  | quad | Pixel type | Land type     |                     | Land name                     | Ground<br>material<br>height (m) |
|-------------------|----------------|-----------|------|------------|---------------|---------------------|-------------------------------|----------------------------------|
|                   | 116.38276<br>0 | 40.027286 | 4-9  | pure pixel | green<br>area | trees and<br>shrubs | Elm + gold and<br>silver wood | 15+4                             |

Paper chart statistics

| Schedule S2 Statistical table of quasi-test layer |                                                                             |                                                       |                                                      |
|---------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|
|                                                   | B1 The spatial distribution<br>analysis of urban green space<br>information | B2 Analysis of urban green<br>space landscape pattern | B3 Analysis of urban green space<br>service capacity |
| Expert 1                                          | 3                                                                           | 4                                                     | 3                                                    |
| Expert 2                                          | 2                                                                           | 3                                                     | 5                                                    |
| Expert 3                                          | 4                                                                           | 2                                                     | 4                                                    |
| Expert 4                                          | 2                                                                           | 3                                                     | 5                                                    |
| Expert 5                                          | 1                                                                           | 4                                                     | 5                                                    |
| Expert 6                                          | 2                                                                           | 2                                                     | 6                                                    |
| Expert 7                                          | 2                                                                           | 4                                                     | 4                                                    |
| Expert 8                                          | 4                                                                           | 3                                                     | 3                                                    |
| Expert 9                                          | 2                                                                           | 5                                                     | 3                                                    |
| Expert 10                                         | 3                                                                           | 4                                                     | 3                                                    |
| Expert 11                                         | 5                                                                           | 3                                                     | 2                                                    |
| Expert 12                                         | 2                                                                           | 4                                                     | 4                                                    |
| Expert 13                                         | 1                                                                           | 5                                                     | 4                                                    |
| Expert 14                                         | 3                                                                           | 4                                                     | 3                                                    |
| Expert 15                                         | 2                                                                           | 5                                                     | 3                                                    |
| Expert 16                                         | 3                                                                           | 2                                                     | 5                                                    |
| Expert 17                                         | 3                                                                           | 4                                                     | 3                                                    |
| Expert 18                                         | 4                                                                           | 4                                                     | 2                                                    |
| Expert 19                                         | 4                                                                           | 3                                                     | 3                                                    |
| Expert 20                                         | 2                                                                           | 4                                                     | 4                                                    |
| Average weight                                    | 2.7                                                                         | 3.6                                                   | 3.7                                                  |

Schedule S3 Index layer score statistics table

|                | B1 The spatial distribution analysis of urban green space information |                                    |                                | B2 Analysis of urban green space landscape pattern |                                 |                        | B3 Analysis of urban park green space service capacity |                                         |
|----------------|-----------------------------------------------------------------------|------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------|------------------------|--------------------------------------------------------|-----------------------------------------|
|                | Green coverage rate: C1                                               | Tree and shrub coverage rate of C2 | Blue and green space ratio: C3 | Landscape fragmentation, C4                        | Landscape aggregation degree C5 | Landscape Diversity C6 | Park green space accessibility C7                      | Park service radius coverage rate of C8 |
| Expert 1       | 5                                                                     | 2                                  | 3                              | 4                                                  | 3                               | 3                      | 5                                                      | 5                                       |
| Expert 2       | 4                                                                     | 2                                  | 4                              | 5                                                  | 2                               | 3                      | 4                                                      | 6                                       |
| Expert 3       | 4                                                                     | 1                                  | 5                              | 4                                                  | 2                               | 4                      | 4                                                      | 6                                       |
| Expert 4       | 3                                                                     | 3                                  | 4                              | 6                                                  | 2                               | 2                      | 3                                                      | 7                                       |
| Expert 5       | 6                                                                     | 2                                  | 2                              | 4                                                  | 3                               | 3                      | 3                                                      | 7                                       |
| Expert 6       | 4                                                                     | 3                                  | 3                              | 4                                                  | 2                               | 4                      | 4                                                      | 6                                       |
| Expert 7       | 5                                                                     | 3                                  | 2                              | 3                                                  | 3                               | 4                      | 5                                                      | 5                                       |
| Expert 8       | 3                                                                     | 3                                  | 4                              | 5                                                  | 3                               | 2                      | 5                                                      | 5                                       |
| Expert 9       | 4                                                                     | 3                                  | 3                              | 5                                                  | 3                               | 2                      | 4                                                      | 6                                       |
| Expert 10      | 6                                                                     | 2                                  | 2                              | 4                                                  | 3                               | 3                      | 6                                                      | 4                                       |
| Expert 11      | 5                                                                     | 1                                  | 4                              | 6                                                  | 2                               | 2                      | 4                                                      | 6                                       |
| Expert 12      | 5                                                                     | 2                                  | 3                              | 4                                                  | 3                               | 3                      | 5                                                      | 5                                       |
| Expert 13      | 4                                                                     | 3                                  | 3                              | 5                                                  | 3                               | 2                      | 5                                                      | 5                                       |
| Expert 14      | 3                                                                     | 3                                  | 4                              | 4                                                  | 4                               | 2                      | 3                                                      | 7                                       |
| Expert 15      | 5                                                                     | 2                                  | 3                              | 3                                                  | 4                               | 3                      | 4                                                      | 6                                       |
| Expert 16      | 6                                                                     | 1                                  | 3                              | 5                                                  | 3                               | 2                      | 3                                                      | 7                                       |
| Expert 17      | 3                                                                     | 3                                  | 4                              | 5                                                  | 2                               | 3                      | 3                                                      | 7                                       |
| Expert 18      | 4                                                                     | 3                                  | 3                              | 4                                                  | 3                               | 3                      | 4                                                      | 6                                       |
| Expert 19      | 5                                                                     | 1                                  | 4                              | 6                                                  | 2                               | 2                      | 3                                                      | 7                                       |
| Expert 20      | 4                                                                     | 3                                  | 3                              | 4                                                  | 2                               | 4                      | 5                                                      | 5                                       |
| Average weight | 4.4                                                                   | 2.3                                | 3.3                            | 4.5                                                | 2.7                             | 2.8                    | 4.1                                                    | 5.9                                     |