

# CHECKLIST OF CARTOGRAPHIC SYMBOLS ON THE 1/25,000 SCALE MANUSCRIPT

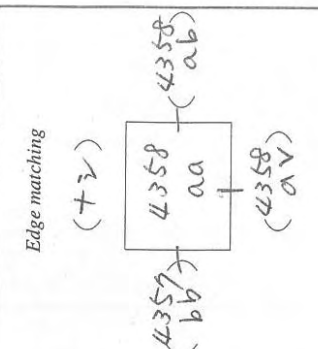
Sheet No. 4358 a9

Checked by K. Usuda

Date: Dec / 23 / 04

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| Item  | Code   | O | M | Item  | Code   | O | M | Item   | Code   | O | M |
|---|--------|---|---|---|--------|---|---|--|--------|---|---|
| <b>Inhabited Areas</b>  |        |   |   |   |        |   |   | <b>Vegetations and Soils</b>   |        |   |   |
| Symbolized building   | 210101 |   |   | Transmission lines  | 222201 |   |   | Moraines   | 511401 |   |   |
| Buildings expressed at true scale                                   | 210201 |   |   | Transmission lines (hidden line)  | 222202 |   |   | Debris flows   | 511501 |   |   |
| Symbolized ruin   | 210301 |   |   | Power transmission lines with wooden poles and reinforced poles (hidden line)         | 222301 |   |   | Precipice and rock walls/upper line                                    | 511701 |   |   |
| Runs expressed at true scale  | 210401 |   |   | Power transmission lines (hidden line)  | 222302 |   |   | Precipice and rock walls/lower line                                    | 511702 |   |   |
| Yurt, chum  | 210501 |   |   | Power transmission lines with metal poles and reinforced concrete poles (hidden line) | 222401 |   |   | Precipice and rock walls/upper line                                    | 511799 |   |   |
| Fire proofing building  | 210601 |   |   | Power transmission lines (hidden line)  | 222402 |   |   | Boundaries of firm fields  | 511801 |   |   |
| Non-fire proofing building  | 210701 |   |   | Stony, bricky walls and masonry fences  | 222501 |   |   | Turf-banked terraces   | 511999 |   |   |
| Sparsely built-up areas   | 210901 |   |   | Light fences for industrial, agricultural and social-cultural objects                 | 222601 |   |   | Semi-shrubs  | 611902 |   |   |
| Newly constructing areas  | 211001 |   |   | Boundary of other areas except vegetations and soils                                  | 222602 |   |   | Steppe plants  | 611903 |   |   |
| Newly constructing areas  | 211101 |   |   | <b>Railways</b>   |        |   |   | Semi-shrubs  | 611904 |   |   |
| Destroyed half-destroyed blocks                                     | 211201 |   |   | Railways  | 310101 |   |   | Passable swamps  | 612001 |   |   |
| Plants, factories and mills without chimney                         | 220101 |   |   | Railway stations  | 310201 |   |   | Passable swamps  | 612002 |   |   |
| Plants, factories and mills without chimney expressed at true scale | 220102 |   |   | Block posts and clear posts   | 310301 |   |   | Passable subsochak   | 612101 |   |   |
| Plants, factories and mills with chimney                            | 220103 |   |   | Loading and unloading sites   | 310401 |   |   | Surfaces with hills  | 612201 |   |   |
| Area of plants, factories and mills                                 | 220104 |   |   | Blind alley of french lines   | 310501 |   |   | Hilly surfaces   | 612301 |   |   |
| Chimneys  | 220105 |   |   | Branch lines  | 310502 |   |   | Stony dispersions and augur stone surfaces                             | 612401 |   |   |
| Fit models of shafts and drills in operation                        | 220201 |   |   | Culvert   | 310601 |   |   | Stony surfaces   | 612402 |   |   |
| Fit models of shafts and drills out of operation                    | 220202 |   |   | Embankments   | 310701 |   |   | Stony surface/point  | 612403 |   |   |
| Open-cast mining areas  | 220301 |   |   | Cuttings  | 310801 |   |   | Conglomerate and gravel surfaces                                       | 612404 |   |   |
| Open-cast mining areas  | 220302 |   |   | Automotive roads with improved pavement   | 320101 |   |   | Sandy flats  | 612601 |   |   |
| Open-cast mining areas  | 220303 |   |   | Automotive roads with pavement  | 320201 |   |   | <b>Boundaries</b>  |        |   |   |
| Fuel and gas tanks  | 220401 |   |   | Automotive roads without pavement   | 320301 |   |   | National boundaries  | 710101 |   |   |
| Area of fuel and gas tanks  | 220402 |   |   | Wide streets in the built-up areas  | 320302 |   |   | Boundaries of Autonomous S.S.R.  | 710201 |   |   |
| Oil supply towers and gas stations                                  | 220501 |   |   | Narrow streets in the built-up areas  | 320303 |   |   | Boundaries of national preserves                                       | 710301 |   |   |
| Power station (hydroelectric, thermal)                              | 220601 |   |   | Roadside blank space  | 320304 |   |   |  |        |   |   |
| Power transmission stations   | 220701 |   |   | Earthen country road  | 320401 |   |   |  |        |   |   |
| Power transmission stations   | 220702 |   |   | Field and forestry roads  | 320501 |   |   |  |        |   |   |
| Area of power transmission stations                                 | 220703 |   |   | Foot paths  | 320601 |   |   |  |        |   |   |
| Radio stations and television centers                               | 220801 |   |   | Foot bridges  | 320701 |   |   |  |        |   |   |
| Television, radio and radio relay masts                             | 220901 |   |   | Roads under-construction  | 320801 |   |   |  |        |   |   |
| Airports on land water  | 221001 |   |   | Embankments and cuttings  | 320901 |   |   |  |        |   |   |
| Main tower-typed architectures                                      | 221101 |   |   | Parking areas   | 321101 |   |   |  |        |   |   |
| Simple towers   | 221201 |   |   | Parking areas expressed to true scale   | 321102 |   |   |  |        |   |   |
| The bollhouses, hothed  | 221301 |   |   | Boundary points between different types of roads                                      | 321301 |   |   |  |        |   |   |
| Area of hothouses, hothed   | 221302 |   |   | Water lines of sea, rivers, lakes and reservoirs                                      | 410101 |   |   | <b>Vegetations and Soils</b>   |        |   |   |
| Livestock enclosures (minimum size)                                 | 221401 |   |   | Coastal sand banks and shoals   | 410201 |   |   | Elevations of shorelines   | 410701 |   |   |
| Livestock enclosures (actual size)                                  | 221302 |   |   | Griffy and rocky shores   | 410301 |   |   | Arrows showing direction of river streams                              | 410801 |   |   |
| Telegraph, subtelegraph stations and telephoto, telephone exchanges | 221501 |   |   | Permanent river and streams (more than 5m wide)                                       | 410401 |   |   | Velocity value of flow-text  | 410802 |   |   |
| Meteorological stations   | 221601 |   |   | Permanent river and streams (from 5 to 50m wide)                                      | 410402 |   |   | Velocity value of flow (single line)                                   | 410901 |   |   |
| Churches  | 221701 |   |   | Permanent river and streams (more than 30m wide)                                      | 410403 |   |   | Characteristics of rivers and canals (true scale)                      | 410902 |   |   |
| Mosques   | 221801 |   |   | Centerlines of rivers   | 410404 |   |   | Characteristics of river and canals (minimum)                          | 410903 |   |   |
| Mosque, submosque, obelisk  | 221901 |   |   | Hidden lines on rivers passing through lands  | 410405 |   |   | Water gauges and tide gauges   | 411001 |   |   |
| Remarkable monuments and statues                                    | 222001 |   |   | Dried up rivers and streams   | 410501 |   |   | Canals and ditches (less than 10m wide)                                | 411101 |   |   |
| Cemeteries (minimum size)   | 221201 |   |   | Waterfalls expressed to true scale  | 410502 |   |   | Canals and ditches (more than 10m wide)                                | 411103 |   |   |
| Cemeteries (actual size)  | 221202 |   |   | Waterfalls  | 410601 |   |   | Irrigation canals (ditches)  | 411201 |   |   |
| Gravestone (point)  | 222103 |   |   | Waterfall/minimum   | 410602 |   |   | Water supplying facilities   | 411301 |   |   |
|   |        |   |   |   |        |   |   | Dried up ditches (single line)   | 411302 |   |   |
|   |        |   |   |   |        |   |   | Dried up ditches (double line)   | 411401 |   |   |
|   |        |   |   |   |        |   |   | Folds expressed to true scale  | 411501 |   |   |
|   |        |   |   |   |        |   |   | Bridges crossing small obstacles and culverts (less than 3m in length) | 411601 |   |   |
|   |        |   |   |   |        |   |   | Bridges crossing small obstacles and culverts (more than 3m in length) | 411602 |   |   |
|   |        |   |   |   |        |   |   | Bridges and elevated bridges (minimum)                                 | 411701 |   |   |
|   |        |   |   |   |        |   |   | Quays  | 411801 |   |   |
|   |        |   |   |   |        |   |   | Impassable dam   | 411802 |   |   |
|   |        |   |   |   |        |   |   | Embankments (to scale)   | 411901 |   |   |
|   |        |   |   |   |        |   |   | Embankments  | 411902 |   |   |
|   |        |   |   |   |        |   |   | Rivers, canals and ditches with embankments on one side and both       | 412001 |   |   |
|   |        |   |   |   |        |   |   | Water pipes on the ground  | 412101 |   |   |
|   |        |   |   |   |        |   |   | Wells  | 412201 |   |   |
|   |        |   |   |   |        |   |   | Artesian wells and artesian deep-bored wells                           | 412301 |   |   |
|   |        |   |   |   |        |   |   | Reservoirs and other water-storing facilities                          | 412401 |   |   |
|   |        |   |   |   |        |   |   | Frontanheads   | 412501 |   |   |
|   |        |   |   |   |        |   |   | Equipped fountainheads   | 412601 |   |   |
|   |        |   |   |   |        |   |   | Moorage without mooring facilities                                     | 412701 |   |   |
|   |        |   |   |   |        |   |   | Moorage with mooring facilities  | 412801 |   |   |
|   |        |   |   |   |        |   |   | Lighthouses  | 412901 |   |   |
|   |        |   |   |   |        |   |   | Dried river beds and dried up lake basins double lines                 | 510501 |   |   |
|   |        |   |   |   |        |   |   | Dried river beds and dried up lake basins filled with pattern          | 510502 |   |   |
|   |        |   |   |   |        |   |   | Dried river beds and dried up lake basins with pattern                 | 510503 |   |   |
|   |        |   |   |   |        |   |   | Passes, steep alludes and precipitable period                          | 510701 |   |   |
|   |        |   |   |   |        |   |   | Depressions/minimum  | 510801 |   |   |
|   |        |   |   |   |        |   |   | Depressions/actual scale   | 510802 |   |   |
|   |        |   |   |   |        |   |   | Barrows and hills/minimum  | 510901 |   |   |
|   |        |   |   |   |        |   |   | Barrows and hills/actual scale   | 510902 |   |   |
|   |        |   |   |   |        |   |   | Entrances of natural and artificial caves                              | 511001 |   |   |
|   |        |   |   |   |        |   |   | Firm fields and permanent snow patches                                 | 511101 |   |   |
|   |        |   |   |   |        |   |   | Glacier tongues  | 511201 |   |   |
|   |        |   |   |   |        |   |   | Glacier crevasses  | 511301 |   |   |



\* O → the number of omissions M → the number of misdescriptions

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| Sheet No. 4358 ab  |        | Checked by K. Usuda |   | Date: Dec / 23 / 08                                       |        |   |   |
|--|--------|---------------------|---|---|--------|---|---|
| Item   | Code   | O                   | M | Item  | Code   | O | M |
| <b>Inhabited Areas</b>   |        |                     |   | <b>Vegetations and Soils</b>                              |        |   |   |
| Synthesized building   | 210101 |                     |   | Moraines  | 511401 |   |   |
| Buildings expressed at true scale                                      | 210201 |                     |   | Debris flows  | 511501 |   |   |
| Synthesized ruin   | 210301 |                     |   | Prescribes and rock walls/upper line                      | 511701 |   |   |
| Ruins expressed at true scale  | 210401 |                     |   | Prescribes and rock walls/lower line                      | 511702 |   |   |
| Yurt, chum   | 210501 |                     |   | Prescribes and rock walls/parts                           | 511759 |   |   |
| Fire proofing building   | 210601 |                     |   | Boundaries of firm fields                                 | 511801 |   |   |
| Non-fire proofing building   | 210701 |                     |   | Turf-banked terraces                                      | 511959 |   |   |
| Sparsely built-up areas  | 210901 |                     |   | Ice scarp's upper line                                    | 512001 |   |   |
| Newly constructing areas   | 211001 |                     |   | Ice scarp's lower line                                    | 512002 |   |   |
| Newly constructing areas   | 211101 |                     |   | Ice scarp's parts   | 512099 |   |   |
| Destroyed hail-destroyed blocks  | 211201 |                     |   | Ice scarp's minimum                                       | 512101 |   |   |
| Plains, lacustrine and mounds without chimney                          | 220101 |                     |   | Clastic sediments of fragile strata                       | 512201 |   |   |
| Plains, lacustrine and mounds without chimney expressed at true scale  | 220102 |                     |   | Clastic sediments of hard strata (polyton)                | 512301 |   |   |
| Plains, lacustrine and mounds with chimney                             | 220103 |                     |   | Clastic sediments of hard strata (fine)                   | 512302 |   |   |
| Area of plains, lacustrine and mounds                                  | 220104 |                     |   | Clastic sediments of hard strata (pebbles)                | 512399 |   |   |
| Chimneys   | 220105 |                     |   | Land slides/upper line                                    | 512401 |   |   |
| Pit mounds of shafts and drills in operation                           | 220201 |                     |   | Land slides/lower line                                    | 512402 |   |   |
| Pit mounds of shafts and drills out of operation                       | 220202 |                     |   | Canyons and gullies/horizontal line                       | 512501 |   |   |
| Open-cast mining areas   | 220301 |                     |   | Canyons and gullies/vertical line                         | 512502 |   |   |
| Open-cast mining areas   | 220302 |                     |   | Escarpments   | 512601 |   |   |
| Fuel and gas tanks   | 220401 |                     |   | Boundaries of vegetations and soils                       | 610101 |   |   |
| Area of fuel and gas tanks   | 220402 |                     |   | Forests   | 610201 |   |   |
| Oil supply towers and gas stations                                     | 220501 |                     |   | Dominant species trees in the forest (to scale)           | 610301 |   |   |
| Power station(s)/hydroelectric, thermal                                | 220601 |                     |   | Dominant species trees in the forest (minimum)            | 610302 |   |   |
| Power transmission stations  | 220701 |                     |   | Dominant species trees in the forest (maximum)            | 610303 |   |   |
| Power transmission stations  | 220702 |                     |   | Dominant species trees in the forest (mixed)              | 610401 |   |   |
| Area of power transmission stations                                    | 220703 |                     |   | Narrow forest belts and protective plantings              | 610501 |   |   |
| Radio stations and television centers                                  | 220801 |                     |   | Isolated trees, non landmark trees                        | 610601 |   |   |
| Television, radio and radio relay masts                                | 220901 |                     |   | Forest stumps, nurseries and saplings/less than 4m height | 610701 |   |   |
| Airports on land water   | 221001 |                     |   | Thin woods  | 610801 |   |   |
| Main tower-typed architectures   | 221101 |                     |   | Shrubs/point  | 610901 |   |   |
| Simple towers  | 221201 |                     |   | Shrubs/filled with color                                  | 610902 |   |   |
| The hobhouse, hobbed   | 221301 |                     |   | Thorny bushes/point                                       | 611001 |   |   |
| Area of hobhouse, hobbed   | 221302 |                     |   | Thorny bushes/filled with color and symbols               | 611002 |   |   |
| Livestock enclosures (minimum size)                                    | 221401 |                     |   | Coniferous trees  | 611101 |   |   |
| Livestock enclosures (actual size)                                     | 221501 |                     |   | Broad leaf trees  | 611201 |   |   |
| Telegraph, radiotelegraph stations and benchmarks, telephone exchanges | 221601 |                     |   | Narrow shrub belts and hedges                             | 611301 |   |   |
| Meteorological stations  | 221701 |                     |   | Creeping shrubs/point                                     | 611401 |   |   |
| Churches   | 221801 |                     |   | Creeping shrubs/filled with color and symbols             | 611501 |   |   |
| Mosques  | 221901 |                     |   | Fruits and citrus gardens                                 | 611601 |   |   |
| Mazary, subargat, dho  | 222001 |                     |   | Vineyards   | 611701 |   |   |
| Remarkable monuments and azaars  | 222101 |                     |   | Fruits and citrus gardens with vineyards                  | 611801 |   |   |
| Cemeteries (minimum size)  | 222201 |                     |   | Berry gardens   | 611901 |   |   |
| Cemeteries (actual size)   | 222301 |                     |   | Fruit-berry gardens                                       | 612001 |   |   |
| Gravestone (point)   | 222401 |                     |   | Herbal plants/polygon                                     | 612101 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 612201 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 612301 |   |   |
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|  |        |                     |   | Herbal plants/polygon                                     | 621001 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 621101 |   |   |
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|  |        |                     |   | Herbal plants/polygon                                     | 621401 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 621501 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 621601 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 621701 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 621801 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 621901 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 622001 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 622101 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 622201 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 622301 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 622401 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 622501 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 622601 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 622701 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 622801 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 622901 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 623001 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 623101 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 623201 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 623301 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 623401 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 623501 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 623601 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 623701 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 623801 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 623901 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 624001 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 624101 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 624201 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 624301 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 624401 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 624501 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 624601 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 624701 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 624801 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 624901 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 625001 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 625101 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 625201 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 625301 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 625401 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 625501 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 625601 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 625701 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 625801 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 625901 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 626001 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 626101 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 626201 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 626301 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 626401 |   |   |
|  |        |                     |   | Herbal plants/polygon                                     | 626501 |   |   |
|  |        |                     |   | Herbal plants/polygon</                                   |        |   |   |

# CHECKLIST OF CARTOGRAPHIC SYMBOLS ON THE 1/25,000 SCALE MANUSCRIPT

Sheet No. 4358 AV Date: Dec / 23 / 09

Checked by K. Usuba

OK

| Item   | Code   | O | M | Item  | Code   | O | M | Item   | Code   | O | M |
|--|--------|---|---|---|--------|---|---|--|--------|---|---|
| <b>Inhabited Areas</b>   |        |   |   |   |        |   |   |  |        |   |   |
| Synthesized building   | 210101 |   |   | Transmission lines  | 222201 |   |   | Moraines   | 511401 |   |   |
| Building expressed at true scale                                       | 210201 |   |   | Transmission lines (hidden line)  | 222202 |   |   | Debris flows   | 511501 |   |   |
| Synthesized ruin   | 210301 |   |   | Power transmission lines with wooden poles and reinforced poles                       | 222301 |   |   | Debris flows (rock walls/upper line)                       | 511701 |   |   |
| Ruins expressed at true scale  | 210401 |   |   | Power transmission lines (hidden line)  | 222302 |   |   | Prescriptions and rock walls/upper line                    | 511702 |   |   |
| Yurt, chinn  | 210501 |   |   | Power transmission lines with metal poles and reinforced concrete poles (hidden line) | 222401 |   |   | Prescriptions and rock walls/lower line                    | 511799 |   |   |
| Fire proofing building   | 210601 |   |   | Power transmission lines (hidden line)  | 222402 |   |   | Boundaries of fir fields                                   | 511803 |   |   |
| Non-fire proofing building   | 210701 |   |   | Stony, brick walls and masonry fences   | 222501 |   |   | Steppe plants  | 611901 |   |   |
| Sparsely built-up areas  | 210901 |   |   | Light fences for industrial, agricultural and social-cultural objects                 | 222601 |   |   | Semi-shrubs  | 611902 |   |   |
| Newly constructing areas   | 211001 |   |   | Boundary of other areas except vegetation and soils                                   | 222602 |   |   | Steppe plants  | 611903 |   |   |
| Newly constructing areas   | 211101 |   |   | <b>Railways</b>   |        |   |   | Semi-shrubs  | 611904 |   |   |
| Destroyed half-destroyed blocks  | 211201 |   |   | Railway stations  | 310101 |   |   | Passable swamps  | 612001 |   |   |
| Plants, fences and walls without chimney                               | 220101 |   |   | Railway stations (block posts and clear posts)  | 310201 |   |   | Passable swamps  | 612002 |   |   |
| Plants, fences and walls without chimney expressed at true scale       | 220102 |   |   | Loading and unloading sites   | 310401 |   |   | Passable solonchak   | 612101 |   |   |
| Plants, fences and walls with chimney                                  | 220103 |   |   | Blind alley of branch lines   | 310501 |   |   | Surfaces with hills  | 612201 |   |   |
| Plants, fences and walls with chimney                                  | 220104 |   |   | Branch lines  | 310502 |   |   | Hilly surfaces   | 612301 |   |   |
| Chimneys   | 220105 |   |   | Culvert   | 310601 |   |   | Stony depressions and angular stone surfaces               | 612401 |   |   |
| Big mounds of shafts and drifts in operation                           | 220201 |   |   | Embankments   | 310701 |   |   | Stony surfaces   | 612402 |   |   |
| Big mounds of shafts and drifts out of operation                       | 220202 |   |   | Cuttings  | 310801 |   |   | Stony surfaces/point                                       | 612403 |   |   |
| Open-cast mining areas   | 220301 |   |   | Automotive roads with improved pavement   | 320101 |   |   | Conglomerate and gravel surfaces                           | 612501 |   |   |
| Open-cast mining areas   | 220302 |   |   | Automotive roads with pavement  | 320201 |   |   | Stony flats  | 612601 |   |   |
| Field and gas tanks  | 220401 |   |   | Automotive roads without pavement   | 320301 |   |   | <b>Boundaries</b>  |        |   |   |
| Area of fuel and gas tanks   | 220402 |   |   | Wide streets in the built-up areas  | 320302 |   |   | National boundaries  | 710101 |   |   |
| Oil supply towers and gas stations                                     | 220501 |   |   | Narrow streets in the built-up areas  | 320303 |   |   | Boundaries of Autonomous S.S.R., Districts and regions     | 710201 |   |   |
| Power stations (hydroelectric, thermal)                                | 220601 |   |   | Roadside blank space  | 320304 |   |   | Boundaries of national preserves                           | 710301 |   |   |
| Power transmission stations  | 220701 |   |   | Earthen country road  | 320401 |   |   |  |        |   |   |
| Power transmission stations  | 220702 |   |   | Field and forestry roads  | 320501 |   |   |  |        |   |   |
| Area of power transmission stations                                    | 220703 |   |   | Foot paths  | 320601 |   |   |  |        |   |   |
| Radio stations and television centers                                  | 220801 |   |   | Foot bridges  | 320701 |   |   |  |        |   |   |
| Television, radio and radio relay masts                                | 220901 |   |   | Roads under-construction  | 320801 |   |   |  |        |   |   |
| Embankments and cuttings   | 320901 |   |   | Embankments and cuttings  | 320901 |   |   |  |        |   |   |
| Isolated trees, non landmark trees                                     | 610501 |   |   | Parking areas expressed to true scale   | 321101 |   |   |  |        |   |   |
| Isolated trees, non landmark trees (spring/less than 4m height)        | 610601 |   |   | Boundary points between different reserves  | 321102 |   |   |  |        |   |   |
| Thin woods   | 610701 |   |   | Water lines of sea, rivers, lakes and reservoirs                                      | 410101 |   |   |  |        |   |   |
| Shrubs/point   | 610801 |   |   | Coastal sand banks and shoals   | 410201 |   |   |  |        |   |   |
| Shrubs/filled with color   | 610802 |   |   | Criffy and rocky shores   | 410301 |   |   |  |        |   |   |
| Thorny bushes/point  | 610901 |   |   | Permanent river and streams (less than 5m wide)                                       | 410401 |   |   |  |        |   |   |
| Thorny bushes/filled with color and symbols                            | 610902 |   |   | Permanent rivers and streams (less than 5m wide)                                      | 410402 |   |   |  |        |   |   |
| Coniferous trees   | 611001 |   |   | Permanent rivers and streams (more than 5m wide)                                      | 410403 |   |   |  |        |   |   |
| Broad leaf trees   | 611002 |   |   | Centrifuges of rivers   | 410404 |   |   |  |        |   |   |
| Narrow shrub belts and hedges  | 611101 |   |   | Hidden lines on rivers passing through lakes  | 410405 |   |   |  |        |   |   |
| Creeping shrubs/point  | 611201 |   |   | Dried up rivers and streams (single line)   | 410501 |   |   |  |        |   |   |
| Creeping shrubs/filled with color and symbols                          | 611202 |   |   | Dried up rivers and streams (double lines)  | 410502 |   |   |  |        |   |   |
| Fruits and citrus gardens  | 611301 |   |   | Waterfalls expressed to true scale  | 410601 |   |   |  |        |   |   |
| Vineyards  | 611401 |   |   | Waterfalls/minimum  | 410602 |   |   |  |        |   |   |
| Fruits and citrus gardens with vineyards                               | 611402 |   |   |   |        |   |   |  |        |   |   |
| Berry gardens  | 611501 |   |   |   |        |   |   |  |        |   |   |
| Fruits-berry gardens   | 611502 |   |   |   |        |   |   |  |        |   |   |
| Herbal plants/polygon  | 611601 |   |   |   |        |   |   |  |        |   |   |
| Herbal plants/polygon  | 611602 |   |   |   |        |   |   |  |        |   |   |
| <b>Vegetations and Soils</b>   |        |   |   | <b>Reliefs</b>  |        |   |   | <b>Vegetations and Soils</b>                               |        |   |   |
| Elevations of shorelines   | 410701 |   |   | Arrows showing direction of river streams   | 410801 |   |   | Boundaries of vegetation and soils                         | 610101 |   |   |
| Velocity value of flow   | 410803 |   |   | Velocity value of flowtext  | 410802 |   |   | Forests  | 610201 |   |   |
| Characteristics of river and canals (minimum)                          | 410901 |   |   | Characteristics of river and canals (more than 10m wide)                              | 411101 |   |   | Dominant species trees in the forest (to scale)            | 610301 |   |   |
| Water gauges and tide gauges   | 411001 |   |   | Canals and ditches (less than 3m wide)  | 411102 |   |   | Dominant species trees in the forest (more than 4m height) | 610302 |   |   |
| Canals and ditches (more than 10m wide)                                | 411103 |   |   | Canals and ditches (less than 3m wide)  | 411103 |   |   | Dominant species trees in the forest (mixed)               | 610303 |   |   |
| Irrigation canals (ditches)  | 411201 |   |   | Water supplying facilities  | 411301 |   |   | Narrow forest belts and protective plantings               | 610401 |   |   |
| Water supplying facilities   | 411302 |   |   | Dried up ditches (single line)  | 411401 |   |   | Isolated trees, non landmark trees                         | 610501 |   |   |
| Dried up ditches (double lines)  | 411402 |   |   | Fridges expressed to true scale   | 411501 |   |   | Fruit trees, manure and springs/less than 4m height        | 610601 |   |   |
| Bridges crossing small obstacles and culverts (less than 3m in length) | 411601 |   |   | Bridges crossing small obstacles and culverts (more than 3m in length)                | 411602 |   |   | Thin woods   | 610801 |   |   |
| Bridges and elevated bridges (tramway)                                 | 411701 |   |   | Quay  | 411801 |   |   | Shrubs/point   | 610802 |   |   |
| Impassable dam   | 411901 |   |   | Embankments (to scale)  | 411901 |   |   | Shrubs/filled with color                                   | 610802 |   |   |
| Embankments (more than 4m height)                                      | 411902 |   |   | Embankments (single line)   | 411902 |   |   | Thorny bushes/point  | 610901 |   |   |
| Embankments on one side and both                                       | 412001 |   |   | Water pipes on the ground   | 412101 |   |   | Thorny bushes/filled with color and symbols                | 610902 |   |   |
| Artesian wells and artesian deep-bored wells                           | 412201 |   |   | Artesian wells and artesian deep-bored wells  | 412301 |   |   | Broad leaf trees   | 611002 |   |   |
| Reservoirs and other water-storing facilities                          | 412401 |   |   | Fountainheads   | 412501 |   |   | Narrow shrub belts and hedges                              | 611101 |   |   |
| Equipaged fountainheads  | 412601 |   |   | Moorage without mooring facilities  | 412701 |   |   | Creeping shrubs/point                                      | 611201 |   |   |
| Moorage with mooring facilities  | 412801 |   |   | Lighthouses   | 412901 |   |   | Creeping shrubs/filled with color and symbols              | 611202 |   |   |
| Dred river beds and dried up lake basins (double lines)                | 510501 |   |   | Dred river beds and dried up lake basins (single line)                                | 510502 |   |   | Fruits and citrus gardens                                  | 611301 |   |   |
| Dred river beds and dried up lake basins (filled with pattern)         | 510503 |   |   | Passes, their abutments and practicable period  | 510701 |   |   | Vineyards  | 611401 |   |   |
| Depressions/minimum  | 510802 |   |   | Depressions/actual scale  | 510802 |   |   | Fruits and citrus gardens with vineyards                   | 611402 |   |   |
| Barrows and hills/minimum  | 510901 |   |   | Barrows and hills/actual scale  | 510902 |   |   | Berry gardens  | 611501 |   |   |
| Entrances of natural and artificial caves                              | 511001 |   |   | Firn fields and permanent snow patches  | 511101 |   |   | Fruits-berry gardens                                       | 611502 |   |   |
| Glacier tongues  | 511201 |   |   | Glacier crevasses   | 511301 |   |   | Herbal plants/polygon                                      | 611601 |   |   |

Edge matching  
(4358 ag)  
4358 av (ag)  
(4357 bg)

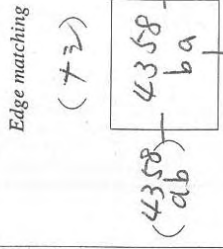
\* O → the number of omissions M → the number of misdescriptions



# CHECKLIST OF CARTOGRAPHIC SYMBOLS ON THE 1/25,000 SCALE MANUSCRIPT

Sheet No. 4358 ba Checked by K. G. G. G. G. Date: Dec / 22 / 04

| Inhabited Areas                   | Socio-cultural Field Objects and Industry, Agriculture and | Hydrography and its facilities | Vegetations and Soils |
|-----------------------------------|--|--------------------------------|-----------------------|
| Item                              | Item   | Item                           | Item                  |
| Code                              | Code   | Code                           | Code                  |
| O                                 | O  | O                              | O                     |
| M                                 | M  | M                              | M                     |
| Symbolized building               | Transmission lines   | Elevations of abscissas        | Moraines              |
| Buildings expressed at true scale | Transmission lines (hidden line)                           | Arcs showing direction         | Debris flows          |
| 210201                            | 222021   | 410701                         | 511401                |
| 210202                            | 222022   | 410801                         | 511501                |
| 210301                            | 222023   | 410802                         | 511701                |
| 210401                            | 222024   | 410803                         | 511702                |
| 210501                            | 222025   | 410901                         | 511799                |
| 210601                            | 222026   | 410902                         | 511801                |
| 210701                            | 222027   | 411001                         | 511999                |
| 210901                            | 222028   | 411101                         | 512001                |
| 211001                            | 222029   | 411102                         | 512002                |
| 211101                            | 222030   | 411103                         | 512099                |
| 211201                            | 222031   | 411201                         | 512101                |
| 220101                            | 310201   | 411301                         | 512201                |
| 220102                            | 310301   | 411302                         | 512301                |
| 220103                            | 310401   | 411401                         | 512302                |
| 220104                            | 310501   | 411402                         | 512399                |
| 220105                            | 310601   | 411501                         | 512401                |
| 220201                            | 310701   | 411601                         | 512402                |
| 220202                            | 310801   | 411602                         | 512501                |
| 220301                            | 320101   | 411701                         | 512502                |
| 220302                            | 320201   | 411801                         | 512601                |
| 220401                            | 320301   | 411802                         | 610101                |
| 220402                            | 320302   | 411901                         | 610201                |
| 220501                            | 320303   | 411902                         | 610301                |
| 220601                            | 320304   | 412001                         | 610302                |
| 220701                            | 320401   | 412101                         | 610303                |
| 220702                            | 320501   | 412201                         | 610401                |
| 220703                            | 320601   | 412301                         | 610501                |
| 220801                            | 320701   | 412401                         | 610601                |
| 220901                            | 320801   | 412501                         | 610701                |
| 221001                            | 320901   | 412601                         | 610801                |
| 221101                            | 321001   | 412701                         | 610802                |
| 221201                            | 321102   | 412801                         | 610901                |
| 221301                            | 321301   | 412901                         | 610902                |
| 221302                            | 410101   | 510501                         | 611001                |
| 221401                            | 410201   | 510502                         | 611002                |
| 221402                            | 410301   | 510603                         | 611101                |
| 221501                            | 410401   | 510701                         | 611201                |
| 221601                            | 410402   | 510801                         | 611301                |
| 221701                            | 410403   | 510802                         | 611401                |
| 221801                            | 410404   | 510901                         | 611402                |
| 221901                            | 410405   | 510902                         | 611501                |
| 222001                            | 410501   | 511001                         | 611502                |
| 222101                            | 410502   | 511101                         | 611601                |
| 222102                            | 410601   | 511201                         | 611602                |
| 222103                            | 410602   | 511301                         |                       |



\* O → the number of omissions M → the number of misdescriptions

# CHECKLIST OF CARTOGRAPHIC SYMBOLS ON THE 1/25,000 SCALE MANUSCRIPT

Sheet No. 4358 bb

Checked by K. Usuda

Date: Dec 23 / 00

| Item   | Code   | O | M | Item   | Code   | O | M | Item   | Code   | O | M | Item   | Code   | O | M |
|--|--------|---|---|--|--------|---|---|--|--------|---|---|--|--------|---|---|
| <b>Inhabited Areas</b>   |        |   |   | <b>Socio-cultural Field Objects</b>  |        |   |   | <b>Hydrography and its facilities</b>                                      |        |   |   | <b>Vegetations and Soils</b>                 |        |   |   |
| Symbolized building  | 21001  |   |   | Transmission lines   | 22201  |   |   | Elevations of shorelines   | 410701 |   |   | Moraines                                     | 511401 |   |   |
| Buildings expressed at true scale                                    | 210201 |   |   | Transmission lines (hidden lines)  | 22202  |   |   | Arrows showing direction of river streams                                  | 410801 |   |   | Debris flows                                 | 511501 |   |   |
| Symbolized ruin  | 210301 |   |   | Power transmission lines with wooden tower transmission lines                        | 22203  |   |   | Velocity value of flow/est   | 410802 |   |   | Precipices and rock wall/upper line          | 511701 |   |   |
| Ruins expressed at true scale  | 210401 |   |   | Power transmission lines (hidden lines)  | 22204  |   |   | Velocity value of flow (hidden line)                                       | 410901 |   |   | Precipices and rock wall/lower line          | 511702 |   |   |
| Yurt, chum   | 210501 |   |   | Power transmission lines with metal tower transmission lines (hidden lines)          | 22205  |   |   | Characteristics of rivers and canals (true scale)                          | 410902 |   |   | Marshes                                      | 611802 |   |   |
| Fire proofing building   | 210601 |   |   | Power transmission lines with reinforced concrete poles and tower transmission lines | 22206  |   |   | Characteristics of rivers and canals (minimum)                             | 410903 |   |   | Marshes                                      | 611803 |   |   |
| Non-fire proofing building   | 210701 |   |   | Stony, brickly walls and masonry fences  | 22207  |   |   | Water gauges and tide gauges   | 411001 |   |   | Steppe plants                                | 611901 |   |   |
| Sparingly built-up areas   | 210901 |   |   | Light fences for industrial, agricultural and other uses                             | 22208  |   |   | Canals and ditches (free than 3m wide)                                     | 411101 |   |   | Semi-shrubs                                  | 611902 |   |   |
| Newly constructing areas   | 211001 |   |   | Boundary of other areas except vegetation and soils                                  | 22209  |   |   | Canals and ditches (more than 3m wide)                                     | 411102 |   |   | Steppe plants                                | 611903 |   |   |
| Newly constructing areas   | 211101 |   |   |  |        |   |   | Canals and ditches (more than 10m wide)                                    | 411103 |   |   | Ice scarp/s /parts                           | 612001 |   |   |
| Destroyed half-destroyed blocks                                      | 211201 |   |   | Railways   | 310101 |   |   | Irrigation canals (ditches)  | 411201 |   |   | Ice scarp/s /minimum                         | 612002 |   |   |
| Plants, factories and mills without chimney                          | 220101 |   |   | Railway stations   | 310201 |   |   | Water supplying facilities   | 411301 |   |   | Ice scarp/s /upper line                      | 612003 |   |   |
| Plants, factories and mills without chimney expressed at true scale  | 220102 |   |   | Block posts and clear posts  | 310301 |   |   | Water supplying facilities   | 411302 |   |   | Ice scarp/s /lower line                      | 612004 |   |   |
| Plants, factories and mills with chimney                             | 220103 |   |   | Loading and unloading sites  | 310401 |   |   | Dried up ditches   | 411401 |   |   | Ice scarp/s /lower line                      | 612005 |   |   |
| Area of plants, factories and mills                                  | 220104 |   |   | Blind alley of branch lines  | 310501 |   |   | Dried up ditches (double lines)  | 411402 |   |   | Passable swamps                              | 612006 |   |   |
| Chimneys   | 220105 |   |   | Branch lines   | 310502 |   |   | Folds expressed to true scale  | 411501 |   |   | Passable solonchak                           | 612101 |   |   |
| Five months of shafts and drifts in operation                        | 220201 |   |   | Culvert  | 310601 |   |   | Bridges crossing small obstacles and culverts (minimum)                    | 411601 |   |   | Surfaces with hills                          | 612201 |   |   |
| Five months of shafts and drifts out of operation                    | 220202 |   |   | Embankments  | 310701 |   |   | Bridges crossing small obstacles and culverts (minimum)                    | 411602 |   |   | Hilly surfaces                               | 612301 |   |   |
| Open-cast mining areas   | 220301 |   |   | Cuttings   | 310801 |   |   | Bridges and elevated bridges   | 411701 |   |   | Stony depressions and angular stone surfaces | 612401 |   |   |
| Open-cast mining areas   | 220302 |   |   | Automotive roads with improved pavement  | 320101 |   |   | Automotive roads with improved pavement                                    | 411801 |   |   | Stony surfaces                               | 612402 |   |   |
| Fuel and gas tanks   | 220401 |   |   | Automotive roads with pavement   | 320201 |   |   | Impassable dnm   | 411802 |   |   | Stony surfaces/point                         | 612403 |   |   |
| Area of fuel and gas tanks   | 220402 |   |   | Automotive roads without pavement  | 320301 |   |   | Embankments  | 411901 |   |   | Stony surfaces/point                         | 612404 |   |   |
| Oil supply towers and gas stations                                   | 220501 |   |   | Wide streets in the built-up areas   | 320302 |   |   | Embankments (minimum)  | 411902 |   |   | Conglomerate and gravel surfaces             | 612501 |   |   |
| Power station/lowvoltage, thermal                                    | 220601 |   |   | Narrow streets in the built-up areas   | 320303 |   |   | Embankments (maximum)  | 411903 |   |   | Study flats                                  | 612601 |   |   |
| Power transmission stations  | 220701 |   |   | Roadside blank space   | 320304 |   |   | Rivers, canals and ditches with embankments on one side and both           | 412001 |   |   | National boundaries                          | 710101 |   |   |
| Power transmission stations  | 220702 |   |   | Earthen country road   | 320401 |   |   | Water pipes on the ground  | 412101 |   |   | Boundaries of Autonomous S.S.R.              | 710201 |   |   |
| Area of power transmission stations                                  | 220703 |   |   | Field and forestry roads   | 320501 |   |   | Wells  | 412201 |   |   | Boundaries of national preserves             | 710301 |   |   |
| Radio stations and television centers                                | 220801 |   |   | Foot paths   | 320601 |   |   | Artesian wells and artesian deep-bored wells                               | 412301 |   |   |  |        |   |   |
| Television, radio and radio-relay masts                              | 220901 |   |   | Foot bridges   | 320701 |   |   | Artesian wells and artesian deep-bored wells (water-storing facilities)    | 412401 |   |   |  |        |   |   |
| Airports on land water   | 221001 |   |   | Roads under-construction   | 320801 |   |   | Fountainheads  | 412501 |   |   |  |        |   |   |
| Main tower-typed architectures                                       | 221101 |   |   | Embankments and cuttings   | 320901 |   |   | Equipped fountainheads   | 412601 |   |   |  |        |   |   |
| Simple towers  | 221201 |   |   | Parking areas  | 321101 |   |   | Moorage without mooring facilities   | 412701 |   |   |  |        |   |   |
| The bathhouse, bathed  | 221301 |   |   | Parking areas expressed to true scale  | 321202 |   |   | Moorage with mooring facilities  | 412801 |   |   |  |        |   |   |
| Area of bathhouse, bathed  | 221302 |   |   | Boundary points between different pavings  | 321301 |   |   | Lighthouses  | 412901 |   |   |  |        |   |   |
| Livestock enclosures (minimum size)                                  | 221401 |   |   | Water lines of sea, rivers, lakes and reservoirs                                     | 410101 |   |   | Dried river beds and dried up lake basins/double lines                     | 510501 |   |   |  |        |   |   |
| Livestock enclosures (actual size)                                   | 221402 |   |   | Coastal sand banks and shoals  | 410201 |   |   | Dried river beds and dried up lake basins/ single line                     | 510502 |   |   |  |        |   |   |
| Telegraph, radio-telegraph stations and benches, telephone exchanges | 221501 |   |   | Griffy and rocky shores  | 410301 |   |   | Dried river beds and dried up lake basins/ single line (less than 5m wide) | 510503 |   |   |  |        |   |   |
| Meteorological stations  | 221601 |   |   | Permanent river and streams (from 5 to 30m wide)                                     | 410401 |   |   | Passes, their alluvial and prehistoric period                              | 510701 |   |   |  |        |   |   |
| Churches   | 221701 |   |   | Permanent river and streams (more than 30m wide)                                     | 410402 |   |   | Depressions/minimum  | 510801 |   |   |  |        |   |   |
| Mosques  | 221801 |   |   | Centerlines of rivers  | 410403 |   |   | Depressions/actual scale   | 510802 |   |   |  |        |   |   |
| Mazary, subgagan, obo  | 221901 |   |   | Hidden lines on rivers passing through lands   | 410404 |   |   | Barrows and hills/minimum  | 510901 |   |   |  |        |   |   |
| Remarkable monuments and statues                                     | 222001 |   |   | Dried up rivers and streams (single line)  | 410405 |   |   | Barrows and hills/actual scale   | 510902 |   |   |  |        |   |   |
| Centerlines (minimum size)   | 221201 |   |   | Waterfalls expressed to true scale   | 410601 |   |   | Entrance of natural and artificial caves                                   | 511001 |   |   |  |        |   |   |
| Centerlines (actual size)  | 221202 |   |   | Waterfalls expressed to true scale   | 410602 |   |   | Firm fields and permanent snow patches                                     | 511101 |   |   |  |        |   |   |
| Gravestone (point)   | 222103 |   |   |  |        |   |   | Glacier tongues  | 511201 |   |   |  |        |   |   |
|  |        |   |   |  |        |   |   | Glacier crevasses  | 511301 |   |   |  |        |   |   |

Edge matching

(+ =)

(4358) - 4358 - (4359)  
ba bb

(+ =)

\* O → the number of omissions M → the number of misdescriptions