

APPENDIX 8 --- QUALITY CONTROL OF MAP MANUSCRIPT

1:25,000 Map Manuscript

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

Sheet No. 4347 VY		Checked by K. U. Guda		Date: Dec / 24 / 04			
Item	Code	O	M	Item	Code	O	M
Inhabited Areas				Vegetations and Soils			
Symbolized building	210101			Moraines	511401		
Buildings expressed at true scale	210201			Debris flows	511501		
Symbolized ruin	210301			Prescapes and rock walls/upper line	511701		
Ruins expressed at true scale	210401			Prescapes and rock walls/lower line	511702		
Yurt, chum	210501			Prescapes and rock walls/gar	511799		
Fire proofing building	210601			Boundaries of firm fields	511801		
Non-fire proofing building	210701			Turf-banked terraces	511999		
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 half-destroyed blocks	211201			Ice scarp's /minimum	512101		
Trains, ferries and milk without chimney	220101			Clastic sediments of fragile arena	512201		
Plants, ferries and milk without chimney	220202			Clastic sediments of hard arena (polygon)	512301		
Plants, ferries and milk with chimney expressed at true scale	220303			Clastic sediments of hard arena (line)	512302		
Plants, ferries and milk with chimney	220104			Clastic sediments of hard arena (parts)	512399		
Chimneys	220105			Land slides/upper line	512401		
Pit mounds of shafts and drills in Pit mounds of shafts and drills out of operation	220201			Land slides/lower line	512402		
Open-cast mining areas	220301			Canyons and gullies/vertical line	512501		
Open-cast mining areas	220302			Canyons and gullies/horizontal line	512502		
Fuel and gas tanks	220401			Encampments	512601		
Area of fuel and gas tanks	220402			Boundaries of vegetations and soils	610101		
Oil supply towers and gas stations	220501			Forests	610201		
Power station/hydroelectric, thermal	220601			Dominant species trees in the forest /coniferous	610301		
Power transmission stations	220701			Dominant species trees in the forest /deciduous	610302		
Power transmission stations	220702			Dominant species trees in the forest /mixed	610303		
Area of power transmission stations	220703			Narrow forest belts and protective plantings	610401		
Radio stations and television centers	220801			Isolated trees, non landmark trees	610501		
Television, radio and radio relay masts	220901			Forest swamps, nurseries and saplings/less than 4m height	610601		
Airports on land water	221001			Thin woods	610701		
Main tower-typed architectures	221101			Strubs/point	610801		
Simple towers	221201			Shrubs/filled with color	610802		
The boathouse, boath	221301			Thorny bushes/point	610901		
Area of boathouse, boath	221302			Thorny bushes/filled with color and symbols	610902		
Livestock enclosures (minimum size)	221401			Coniferous trees	611001		
Livestock enclosures (actual size)	221502			Broad leaf trees	611002		
Telegraph, radiotelegraph stations and branches, telephone exchanges	221601			Narrow shrub belts and hedges	611101		
Meteorological stations	221701			Creeping shrubs/point	611201		
Churches	221701			Creeping shrubs/filled with color and symbols	611202		
Mosques	221801			Fruits and citrus gardens	611301		
Mazary, suburgan, obo	221901			Vineyards	611401		
Remarkable monuments and statues	222001			Fruits and citrus gardens with vineyards	611402		
Cemeteries (minimum size)	221201			Berry gardens	611501		
Cemeteries (actual size)	221202			Fruits-berry gardens	611502		
Gravestone (point)	221203			Herbal plants/polygon	611601		
				Herbal plants/polygon	611602		
Industry, Agriculture and Socio-cultural Field Objects				Vegetations and Soils			
Transmission lines	222201			Boundaries			
Transmission lines (hidden line, 222202)	222202			National boundaries	710101		
Power transmission lines with wooden poles and reinforced poles	222301			Boundaries of Autonomous S.S.R. Districts and regions	710201		
Power transmission lines (hidden line)	222302			Boundaries of national preserves	710301		
Power transmission lines with metal poles and reinforced poles	222401						
Power transmission lines (hidden line)	222402						
Stony, rocky walls and masonry fences	222501						
Light fences for technical, agricultural and socio-cultural object objects	222601						
Boundary of other areas except vegetation and soils	222602						
Industry, Agriculture and Socio-cultural Field Objects				Relief			
Railways	310101			Elevations of shorelines	410701		
Railway stations	310201			Arrows showing direction of river streams	410801		
Block posts and clear posts	310301			Velocity value of flow/vent	410802		
Loading and unloading sites	310401			Velocity value of flow	410803		
Blind alley of trench lines	310501			Characteristics of rivers and canals (true scale)	410901		
Branch lines	310502			Characteristics of river and canals (minimum)	410902		
Culvert	310601			Water gauges and tide gauges	411001		
Embankments	310701			Canals and ditches (more than 10m wide)	411101		
Cuttings	310801			Canals and ditches (from 3m to 10m wide)	411102		
Automotive roads with improved pavement	320101			Canals and ditches (more than 10m wide)	411103		
Automotive roads with pavement	320201			Irrigation canals (ditches)	411201		
Wide streets in the built-up areas	320302			Water supplying facilities	411301		
Narrow streets in the built-up areas	320303			Dried up ditches (single line)	411302		
Roadside blank space	320304			Dried up ditches (double lines)	411402		
Earthen country road	320401			Ferds expressed to true scale	411501		
Field and forestry roads	320501			Bridges crossing small obstacles and cutovers (less than 3m in length)	411601		
Foot paths	320601			Bridges crossing small obstacles and cutovers (minimum)	411602		
Roads under-construction	320801			Quay	411701		
Embankments and cuttings	320901			Impassable dam	411802		
Parking areas	321101			Embankments (to scale)	411901		
Parking areas expressed to true scale	321102			Embankments (minimum)	411902		
Boundary points between different types of roads, rivers, fields and reservoirs	321301			Rivers, canals and ditches with embankments on one side and both	412001		
Coastal sand banks and shoals	410201			Water pipes on the ground	412101		
Criffy and rocky shores	410301			Wells	412201		
Permanent river and streams (less than 5m wide)	410401			Artesian wells and artesian deep-bored wells	412301		
Permanent river and streams (from 5 to 30m wide)	410402			Reservoirs and other water-storing facilities	412401		
Permanent river and streams (more than 30m wide)	410403			Fountainheads	412501		
Centerlines of rivers	410404			Equippted fountainheads	412601		
Hidden lines on rivers passing through fields	410405			Moorage without mooring facilities	412701		
Dried up rivers and streams (single line)	410501			Moorage with mooring facilities	412801		
Dried up rivers and streams (double line)	410502			Lighthouses	412901		
Waterfalls expressed to true scale	410601			Dried river beds and dried up lake basins/ filled with pattern	510501		
Waterfalls/minimum	410602			Dried river beds and dried up lake basins/ filled with pattern like basins/ single line	510502		
				Dried river beds and dried up lake basins/ double line	510503		
				Depressions/minimum	510701		
				Depressions/actual scale	510801		
				Barrows and hills/minimum	510901		
				Barrows and hills/actual scale	510902		
				Remains of natural and artificial Firr fields and permanent snow patches	511001		
				Firr fields and permanent snow patches	511101		
				Glacier tongues	511201		
				Glacier crevasses	511301		



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

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

Sheet No. 4347 Vg

Checked by K. Usuda

Date: Dec 22 / 04

Item	Code	O	M	Item	Code	O	M	Item	Code	O	M
Inhabited Areas	21001			Symmetrized building	410701			Vegetations and Soils	511401		
Buildings expressed at true scale	21021			Transmission lines	410801			Moraines	511501		
Symmetrized ruin	21031			Transmission lines (hidden line)	410802			Debris flows	511701		
Ruins expressed at true scale	21041			Power transmission lines with wooden poles and reinforced poles	410803			Precipices and rock walls/upper line	511702		
Yurt, chum	21051			Power transmission lines (hidden line)	410901			Precipices and rock walls/lower line	511799		
Fire proofing building	21061			Power transmission lines with metal and reinforced concrete poles	410902			Boundaries of firm fields	511801		
Non-fire proofing building	21071			Power transmission lines (line)	411001			Turf-banked terraces	511999		
Sparsely built-up areas	21091			Shaggy, rocky walls and rustic fences	411101			Semi-shrubs	611902		
Newly constructing areas	21101			Light fences for industrial, agricultural and socio-cultural objects	411102			Steppe plants	611903		
Newly constructing areas	211101			Boundary of other areas except vegetations and soils	411103			Semi-shrubs	611904		
Destroyed half-destroyed blocks	211201			Railways	411201			Passable swamps	612001		
Industry, Agriculture and Socio-cultural Field Objects	220101			Railway stations	411301			Passable swamps	612002		
	Plants, factories and mills without chimney	220102		Block posts and clear posts	411302			Passable solonchak	612101		
	Plants, factories and mills without chimney expressed at true scale	220202		Landing and unloading sites	411401			Surfaces with hills	612201		
	Plants, factories and mills with chimney	220302		Blind alley of branch lines	411402			Hilly surfaces	612301		
	Area of plastic, fibrous and raffia	220402		Branch lines	411501			Stony dispersions and angular stony surfaces	612401		
	Chimneys	220502		Culvert	411502			Stony surfaces	612402		
	Pit mounds of shafts and drifts in operation	220602		Embankments	411601			Stony surface/point	612403		
	Pit mounds of shafts and drifts out of operation	220702		Cuttings	411602			Stony surface/point	612404		
	Open-cast mining areas	220802		Automotive roads with improved pavement	411701			Conglomerate and gravel surfaces	612501		
	Open-cast mining areas	220902		Automotive roads with pavement	411801			Stony flats	612601		
	Fuel and gas tanks	220401		Automotive roads without pavement	411802			National boundaries	710101		
	Area of fuel and gas tanks	220402		Area of fuel and gas tanks	411901			Boundaries of Autonomous S.S.R.	710201		
Oil supply towers and gas stations	220501		Wide streets in the built-up areas	411902			Boundaries of national preserves	710301			
Power stations (hydroelectric, thermal)	220601		Narrow streets in the built-up areas	412001							
Power transmission stations	220701		Roadside blank space	412101							
Power transmission stations	220702		Earthen country road	412201							
Area of power transmission stations	220703		Field and forestry roads	412301							
Radio stations and television centers	220801		Foot paths	412401							
Television, radio and radio relay masts	220901		Foot bridges	412501							
Airports on land water	221001		Roads under-construction	412601							
Main tower-vyed architectures	221101		Embankments and cuttings	412701							
Simple towers	221201		Parking areas	412801							
The barbecue, hedged	221301		Parking area expressed to true scale	412901							
Area of bathhouse, hedged	221302		Boundary points between different water lines of sea, rivers, lakes and reservoirs	510501							
Livestock enclosures (minimum size)	221401		Coastal sand banks and shoals	510502							
Livestock enclosures (actual size)	221302		Criffy and rocky shores	510503							
Telegraph, radiotelegraph stations and branches, telephone exchanges	221501		Permanent rivers and streams (less than 5m wide)	510701							
Meteorological stations	221601		Permanent rivers and streams (from 5 to 10m wide)	510801							
Churches	221701		Permanent rivers and streams (more than 30m wide)	510802							
Mosques	221801		Centerlines of rivers	510901							
Mazary, subergan, obo	221901		Hidden lines on rivers passing dried up rivers and streams (single line)	510902							
Remarkable monuments and statues	222001		Dried up rivers and streams (double lines)	511001							
Cemeteries (minimum size)	221201		Waterfalls expressed to true scale	511101							
Cemeteries (actual size)	221202		Waterfalls/minimum	511201							
Gravestone (point)	222103			511301							

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

Edge matching
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4347 (VV) + (4347) Vg (4347) (4347) ab

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

Sheet No. 4347 JV

Checked by K. Usuba

Date: Dec 24 / 08

Inhabited Areas	Code	O	M	Item	Code	O	M	Item	Code	O	M
Synthesized building	21001				410701			Elevations of shorelines	410701		
Buildings expressed at true scale	210201				410801			Arrows showing direction of river streams	410801		
Synthesized ruin	210301				410802			Velocity value of flow	410802		
Ruins expressed at true scale	210401				410901			Characteristics of rivers and canals (true scale)	410901		
Yurt, chum	210501				410902			Characteristics of river and canals (minimum)	410902		
Fire proofing building	210601				411001			Water gauges and tide gauges	411001		
Non-fire proofing building	210901				411101			Canals and ditches (less than 3m wide)	411101		
Sparsely built-up areas	211001				411102			Canals and ditches (more than 3m wide)	411102		
Newly constructing areas	211101				411103			Canals and ditches (more than 10m wide)	411103		
Destroyed half-destroyed blocks	221201				411201			Irrigation canals (ditches)	411201		
Plants, forests and mills without chimney	220101				411301			Water supplying facilities	411301		
Plants, forests and mills without chimney expressed at true scale	220202				411302			Water supplying facilities	411302		
Plants, factories and mills with chimney	220103				411401			Dried up ditches (single lines)	411401		
Area of plants, factories and mills	220104				411402			Dried up ditches (double lines)	411402		
Chimneys	220105				411501			Foats expressed to true scale	411501		
Pit mounds of shafts and drifts in operation	220201				411601			Bridges crossing small obstacles and rivers (less than 2m in length)	411601		
Pit mounds of shafts and drifts out of operation	220202				411602			Bridges crossing obstacles and culverts (minimum)	411602		
Open-pit mining areas	220301				411701			Bridges and elevated bridges (minimum)	411701		
Open-pit mining areas	220302				411801			Quay	411801		
Fuel and gas tanks	220401				411802			Impassable dam	411802		
Area of fuel and gas tanks	220402				411901			Embankments (to scale)	411901		
Oil supply towers and gas stations	220501				411902			Embankments (minimum)	411902		
Power stations (hydroelectric, diesel)	220601				412001			Rivers, canals and ditches with embankments on one side and both	412001		
Power transmission stations	220701				412101			Water pipes on the ground	412101		
Power transmission stations	220702				412201			Wells	412201		
Area of power transmission stations	220703				412301			Artesian wells and artesian deep-bored wells	412301		
Radio stations and television centers	220801				412401			Reservoirs and other water-storing facilities	412401		
Television, radio and radio relay masts	220901				412501			Fountainheads	412501		
Airports on land water	221001				412601			Equipped fountainheads	412601		
Main tower-typed architectures	221101				412701			Moorage without mooring facilities	412701		
Simple towers	221201				412801			Moorage with mooring facilities	412801		
The bathhouse, bathed	221301				412901			Lighthouses	412901		
Area of bathhouse, bathed	221302				510501			Dried river beds and dried up lake basins/double lines	510501		
Livestock enclosures (minimum area)	221401				510502			Dried river beds and dried up lake basins/ filled with pattern	510502		
Livestock enclosures (actual size)	221302				510503			Dried river beds and dried up lake basins/ filled with pattern (less than 5m wide)	510503		
Telegraph, radiotelegraph stations and branches, telephone exchanges	221501				510701			Passes, short alleys and practicable period	510701		
Meteorological stations	221601				510801			Depressions/minimum	510801		
Churches	221701				510802			Depressions/actual scale	510802		
Mosques	221801				510901			Barrows and hills/minimum	510901		
Mazary, suburgan, obo	221901				510902			Barrows and hills/actual scale	510902		
Remarkable monuments and names	222001				511001			Entrances of tunnels and artificial caves	511001		
Cometeries (minimum size)	221201				511101			Firn fields and permanent snow patches	511101		
Cometeries (actual size)	222102				511201			Glacier tongues	511201		
Gravesome (point)	222103				511301			Glacier crevasses	511301		

Inhabited Areas

Industry, Agriculture and Socio-cultural Field Objects

Railways

Hydrography and its facilities

Relief

Vegetations and Soils

Boundaries

Vegetations and Soils

Industry, Agriculture and Socio-cultural Field Objects

Railways

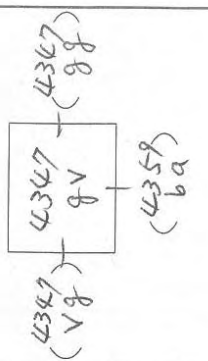
Hydrography and its facilities

Relief

Vegetations and Soils

Boundaries

Vegetations and Soils



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

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

Sheet No. **434788** Checked by **K. V. G. S.** Date: **Dec / 24 / 08**

Item	Code	O	M	Item	Code	O	M	Item	Code	O	M	Item	Code	O	M
Inhabited Areas															
Symbolized building	210101	/		Transmission lines (hidden line)	222001			Elevations of shorelines	410701			Moraines	511401		
Buildings expressed at true scale	210201	/		Transmission lines with wooden poles and reinforced poles	222002			Arrows showing direction of river currents	410801			Debris flows	511501		
Symbolized ruin	210301		/	Power transmission lines	222301			Velocity value of flow/ice	410902			Precipice and rock walls/upper line	511701		
Ruins expressed at true scale	210401			Power transmission lines with metal poles	222302			Velocity value of flow (true scale)	410903			Precipice and rock walls/lower line	511702		
Yurt, chum	210501			Power transmission lines with reinforced concrete poles and reinforced concrete poles (lines)	222401			Characteristics of rivers and canals (true scale)	410901			Precipice and rock walls/part	511799		
Fire proofing building	210601			Power transmission lines (hidden line)	222402			Characteristics of river and canals (minimum)	410902			Boundaries of firm fields	511801		
Non-fire proofing building	210701			Stony, rocky walls and incense fences	222501			Water gauges and tide gauges	411001			Turf-banked terraces	511999		
Sparingly built-up areas	210801			Light fences for industrial, agricultural and social-cultural objects	222601			Canals and ditches (less than 3m wide)	411101			Ice scarps / upper line	512001		
Newly constructing areas	211001			Boundary of other areas except vegetation and soils	222602			Canals and ditches (from 3m to 10m wide)	411102			Ice scarps / lower line	512002		
Newly constructing areas	211101			Railways	310101			Canals and ditches (more than 10m wide)	411103			Ice scarps / parts	512099		
Destroyed half-destroyed blocks	211201			Railway stations	310201			Irrigation canals (ditches)	411201			Ice scarps / minimum	512101		
Industry, Agriculture and Socio-cultural Field Objects				Block posts and clear posts	310301			Water supplying facilities	411301			Chastic sediments of fragile areas	512201		
Plants, factories and mills without chimney	220101			Loading and unloading sites	310401			Water supplying facilities	411302			Chastic sediments of hard strata (polygon)	512301		
Plants, factories and mills without chimney expressed at true scale	220102			Blind alley of branch lines	310501			Dried up ditches (single line)	411401			Chastic sediments of hard strata (line)	512302		
Plants, factories and mills with chimney	220103			Branch lines	310502			Dried up ditches (double line)	411402			Chastic sediments of hard strata (pairs)	512399		
Area of plants, factories and mills	220104			Culvert	310601			Fords expressed to true scale	411501			Land slides/upper line	512401		
Chimneys	220105			Enbankments	310701			Bridges crossing small obstacles and culverts (less than 3m in length)	411601			Land slides/lower line	512402		
Pit mounds of shafts and debris in operation	220201			Cuttings	310801			Bridges crossing small obstacles and culverts (minimum)	411602			Canyons and gullies/vertical line	512501		
Open-cast mining areas	220301			Automotive roads with improved pavement	320101			Quays	411701			Canyons and gullies/horizontal line	512502		
Open-cast mining areas	220302			Automotive roads with pavement	320201			Impassable dam	411801			Encarments	512601		
Pit and gas tanks	220401			Automotive roads without pavement	320301			Enbankments (to scale)	411901			Boundaries of vegetation and soils	610101		
Area of fuel and gas tanks	220402			Wide streets in the built-up area	320302			Enbankments (minimum)	411902			Forests	610201		
Oil supply towers and gas stations	220501			Narrow streets in the built-up area	320303			Rivers, canals and ditches with embankments on one side and both	412001			Dominant species trees in the forest (overflows)	610301		
Power station(s)/nuclear, thermal	220601			Roadside blank space	320304			Water pipes on the ground	412101			Deciduous	610302		
Power transmission stations	220701			Earthen country road	320401			Wells	412201			Dominant species trees in the forest (point)	610303		
Power transmission stations	220702			Field and forestry roads	320501			Artesian wells and artesian wells (to scale)	412301			Narrow forest belts and protective plantings	610401		
Area of power transmission stations	220703			Foot paths	320601			Reservoirs and other water-storing facilities	412401			Isolated trees, non landmark trees	610501		
Radio stations and television centers	220801			Foot bridges	320701			Fountainheads	412501			Fewer stumps, mummies and saplings less than 1m height	610601		
Television, radio and radio relay masts	220901			Roads under-construction	320801			Equippped fountainheads	412601			Thin woods	610701		
Airports on land water	221001			Enbankments and cuttings	320901			Moorage without mooring facilities	412701			Shrubs/point	610801		
Main tower-typed architectures	221101			Parking areas	321101			Moorage with mooring facilities	412801			Shrubs/point with color	610802		
Simple towers	221201			Parking areas expressed to true scale	321102			Lighthouses	412901			Thorny bushes/point	610901		
The lodhouses, hothed	221301			Boundary points between different pavings	321301			Dried river beds and dried up lake basins / double lines	510501			Thorny bushes/point with color and symbols	610902		
Area of lodhouse, hothed	221302			Water lines of sea, rivers, lakes and reservoirs	410101			Dried river beds and dried up lake basins / filled with pattern	510502			Coniferous trees	611001		
Livestock enclosures (minimum size)	221401			Coastal sand banks and shoals	410201			Lake basins / single line	510503			Broad leaf trees	611002		
Livestock enclosures (actual size)	221302			Griffy and rocky shores	410301			Passes, their altitudes and predictable period	510701			Narrow shrub belts and hedges	611101		
Telegraph, radiotelegraph stations and fire stations, telephone exchanges	221501			Permanent river and streams (less than 3m wide)	410401			Depressions/minimum	510801			Creeping strabs/point	611201		
Microtopographical stations	221601			Permanent river and streams (from 3m to 30m wide)	410402			Depressions/actual scale	510802			Creeping strabs/point with color and symbols	611202		
Churches	221701			Permanent river and streams (more than 30m wide)	410403			Barrows and hills/minimum	510901			Fruits and citrus gardens	611301		
Mosques	221801			Centerlines of rivers through banks	410404			Barrows and hills/actual scale	510902			Vineyards	611401		
Mazary, subergan, obo	221901			Dried up rivers and streams (single line)	410405			Entrances of natural and artificial caves	511001			Fruits and citrus gardens with vineyards	611402		
Remarkable monuments and statues	222001			Dried up rivers and streams (double line)	410501			Firm fields and permanent snow patches	511101			Berry gardens	611501		
Ceneteries (minimum size)	221201			Waterfalls expressed to true scale	410601			Glacier tongues	511201			Fruit-berry gardens	611502		
Ceneteries (actual size)	221202			Waterfalls/minimum	410602			Glacier crevasses	511301			Herbal plants/polygon	611602		
Gravestone (point)	222103											Herbal plants/polygon			

Edge matching

(73)

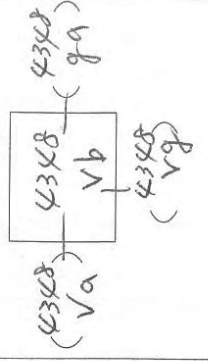
(4347) - (4348) 4347 - (4348) 92

(4359) (4359) 66

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

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

Sheet No. 4348 Vb		Checked by K. f. Sube		Date: Dec / 22 / 04											
Inhabited Areas	Industry, Agriculture and Socio-cultural Field Objects	Hydrography and its facilities	Relife	Code	O M										
Symbolized building Buildings expressed at true scale Symbolized ruin Ruins expressed at true scale Yur, chum Fire proofing building Non-fire proofing building Sparsely built-up areas Newly constructing areas Newly constructing areas Destroyed half-destroyed blocks Plants, factories and mills without chimney Plants, factories and mills without chimney expressed at true scale Plants, factories and mills with chimney Area of plants, factories and mills Chimneys Pit mounds of shafts and drifts in preparation of shafts and drifts, out of operation Open-cast mining areas Open-cast mining areas Fuel and gas tanks Area of fuel and gas tanks Oil supply towers and gas stations Power stations (hydroelectric, thermal) Power transmission stations Power transmission stations Area of power transmission stations Radio stations and television centers Tele-vision, radio and radio-relay masts Airports on land water Main tower-typed architectures Simple towers The hobdouse, hobed Area of hobdouse, hobed Livestock enclosures (minimum size) Livestock enclosures (actual size) Telegraph, radiotelegraph stations and branches, telephone exchanges Meteorological stations Churches Mosques Mazary, suburban, obo Remarkable monuments and squares Cemeteries (minimum size) Cemeteries (actual size) Gravestones (point)	Transmission lines Transmission lines (hidden line) Power transmission lines with wooden poles and reinforced poles (hidden line) Power transmission lines with metal poles and reinforced poles (hidden line) Power transmission lines (hidden line) Stone, brick walls and masonry fences Light fences for industrial, agricultural and social-cultural object Boundary of other areas except vegetation and soils Railways Railway stations Block posts and clear posts Loading and unloading sites Blind alley of branch lines Branch lines Culvert Embankments Cuttings Automotive roads with improved pavement Automotive roads with pavement Automotive roads without pavement Wide streets in the built-up areas Narrow streets in the built-up areas Roadside blank space Earthen country road Field and forestry roads Foot paths Foot bridges Roads under-construction Embankments and cuttings Parking areas Parking area expressed to true scale Boundary points between different pavings Water lines of sea, rivers, lakes and reservoirs Coastal sand banks and shoals Criffs and rocky shores Permanent river and streams (from 5 to 30m wide) Permanent rivers and streams (more than 30m wide) Centerlines of rivers Hidden lines on rivers passing through lands Dried up rivers and streams Dried up rivers and streams (double line) Waterfalls/expressed to true scale Waterfalls/minimum	Elevations of shorelines Arrows showing direction of river streams Velocity value of flow/sect Velocity value of flow Characteristics of rivers and canals (true scale) Characteristics of rivers and canals (minimum) Water gauges and tide gauges Canals and ditches (with/without flow) Canals and ditches (from 3m to 10m wide) Canals and ditches (more than 10m wide) Irrigation canals (ditches) Water supplying facilities Water supplying facilities Dried up ditches (single line) Dried up ditches (double line) Fords expressed to true scale Bridges crossing small obstacles and culverts (less than 3m in length) Bridges crossing small obstacles and culverts (minimum) Bridges and elevated bridges (minimum) Quay Impassable dam Embankments (to scale) Embankments (minimum) Rivers, canals and ditches with embankments on one side and both Water pipes on the ground Wells Artesian wells and artesian Reservoirs and other water-storing facilities Fountainheads Equipped fountainheads Moorage without mooring facilities Moorage with mooring facilities Lighthouses Dried river beds and dried up lake basins/double lines Dried river beds and dried up lake basins/double lines Dried river beds and dried up lake basins/single line Purses, their altitude and practicable period Depressions/minimum Depressions/actual scale Barrows and hills/minimum Barrows and hills/actual scale Entrance of natural and artificial caves Natural fields and permanent snow Glacier tongues Chamber crevasses	Moraines Debris flows Precipices and rock walls/upper line Precipices and rock walls/lower line Precipices and rock walls/pates Boundaries of firm fields Turf-banked terraces Ice scarp/upper line Ice scarp/lower line Ice scarp/pates Ice scarp/minimum Clastic sediments of fragile strata Clastic sediments of hard strata (polygon) Clastic sediments of hard strata (double line) Clastic sediments of hard strata (parts) Land slides/upper line Land slides/lower line Canyons and gullies/vertical line Canyons and gullies/horizontal line Escarpments Boundaries of vegetation and soils Forests Dominant species trees in the forest (coniferous) Dominant species trees in the forest (deciduous) Dominant species trees in the forest (mixed) Narrow forest belts and protective plantings Isolated trees, not landmark trees Forest canopy, maximum and saplings/less than 4m height Thin woods Shrub/point Shrub/filled with color Thorny bushes/point Thorny bushes/filled with color and symbols Coniferous trees Broad leaf trees Narrow shrub belts and hedges Creeping shrubs/point Creeping shrubs/filled with color and symbols Fruits and citrus gardens Vineyards Ficus and citrus gardens with vineyards Berry gardens Fruits-berry gardens Herbal plants/polygon Herbal plants/polygon	Code 511401 511501 511701 511702 511739 511801 511999 512001 512002 512099 512101 512201 512301 512302 512399 512401 512402 512403 512404 512501 512601 610101 610201 610301 610302 610303 610401 610501 610601 610701 610801 610802 610901 610902 611001 611002 611101 611201 611302 611301 611401 611402 611501 611502 611601 611602	Code 410701 410801 410802 410901 410902 411101 411102 411103 411201 411301 411302 411401 411402 411501 411601 411602 411701 411801 411802 411901 411902 412001 412101 412201 412301 412401 412501 412601 412701 412801 412901 510501 510502 510503 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Autonomous S.S.R Districts and regions Boundaries of national preserves	Item Moraines Debris flows Precipices and rock walls/upper line Precipices and rock walls/lower line Precipices and rock walls/pates Boundaries of firm fields Turf-banked terraces Ice scarp/upper line Ice scarp/lower line Ice scarp/pates Ice scarp/minimum Clastic sediments of fragile strata Clastic sediments of hard strata (polygon) Clastic sediments of hard strata (double line) Clastic sediments of hard strata (parts) Land slides/upper line Land slides/lower line Canyons and gullies/vertical line Canyons and gullies/horizontal line Escarpments Boundaries of vegetation and soils Forests Dominant species trees in the forest (coniferous) Dominant species trees in the forest (deciduous) Dominant species trees in the forest (mixed) Narrow forest belts and protective plantings Isolated trees, not landmark trees Forest canopy, maximum and saplings/less than 4m height Thin woods Shrub/point Shrub/filled with color Thorny 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