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U.S.--DEPT. OF THE
ARMY
SOVIET TOPOGRAPHIC
MAP SYMBOLS.

TM 30-548

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

SOVIET TOPOGRAPHIC MAP SYMBOLS



HEADQUARTERS, DEPARTMENT OF THE ARMY
JUNE 1958

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TECHNICAL MANUAL)

Map & Geog.

TM 30-548

NO. 30-548

) HEADQUARTERS,
DEPARTMENT OF THE ARMY
) Washington 25, D. C., 12 June 1958

SOVIET TOPOGRAPHIC MAP SYMBOLS

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Map 8 Jan 57. P.D. Buckner 11 2 Feb 59

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CHAPTER I

INTRODUCTION

SECTION I GENERAL

1. Purpose

The purpose of this manual is to provide information required by the map user when reading modern Soviet military topographic maps.

2. Scope

This manual presents, as a convenient reference guide, symbols and abbreviations which appear on available Soviet maps of various scales.

3. Organization

a. Chapter 1 explains briefly the responsible authorities involved in Soviet mapping. It also contains additional general information concerning symbols and a detailed explanation of the Soviet map numbering system.

b. Chapter 2 is a listing of map symbols generally common to all scales except for size, which varies from scale to scale.

c. Chapter 3 is a list of symbols found only on maps at scale of 1:10,000.

d. Chapters 4 through 6 provide additional symbols found on 1:200,000, 1:500,000 and 1:1,000,000 scale maps.

e. Appendix I provides a transliteration of the Russian alphabet.

f. Appendix II is a list of abbreviations appearing on Soviet maps, arranged according to the Russian alphabet. Symbols which are general in nature (such as mine, factory and tower) are accompanied by abbreviations indicating the specific use or activity of the feature.

g. Appendix III is a list of translated, selected terms primarily appearing in the compilation credit note of Soviet maps.

SECTION II NOTES ON SYMBOLIZATION

1. In a few cases two symbols may be found representing one feature. This is due to a continuing evolution of mapping specifications.

2. A symbol qualified by the words "drawn to scale" means that the size is delineated true to the scale of the map.

3. Many of the symbols presented in Chapters 4 through 6 exceed normal map size; exact specifications are not available.

4. It is possible that symbols other than those listed herein may be discovered.

SECTION III SOVIET MAPPING RESPONSIBILITIES

1. The principal topographic map producing organization of the USSR is the Chief Administration of Geodesy and Cartography (GUGK) under the Ministry of Internal Affairs (MVD). This vast organization, controlling mapping functions throughout the USSR, is responsible for the production of all military-topographic, economic and civil-use mapping.

2. The Military Topographic Administration (VTU) under the General Staff of the Ministry of Defense is also involved in Soviet mapping, operating in close cooperation with GUGK. Its responsibilities are flexible but apparently its authority takes precedence during wartime.

SECTION IV SHEET NUMBERING SYSTEM OF SOVIET TOPOGRAPHIC MAPS

1. 1:1,000,000 Scale

The Soviet topographic 1:1,000,000 sheets follow the International Map of the World (IMW) numbering system. Sheets are designated by a Roman letter and Arabic number. In the Northern Hemisphere the numbering system begins at the Equator and the 180° meridian with sheet number A-1. Sheet numbers progress northward and eastward in letters and numbers respectively. The individual sheets cover 4° of latitude and 6° of longitude. Example: Sheet M-36 is located between 48° and 52° north latitude and 30° to 36° east longitude.

2. 1:500,000 Scale

Each 1:1,000,000 sheet area is divided into four 1:500,000 sheets, each covering 2° of latitude and 3° of longitude.

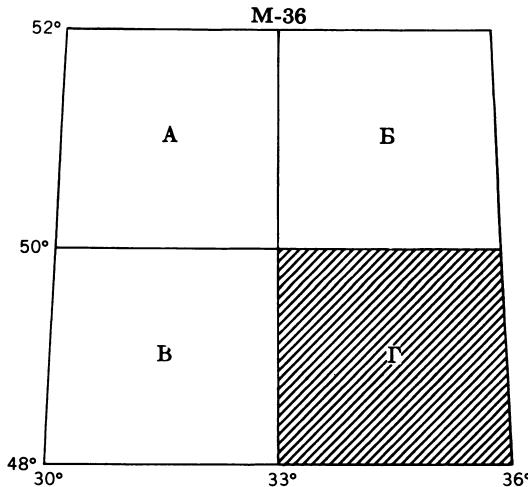


FIGURE 1. 1:500,000 scale division of 1:1,000,000 sheet M-36.

Each sheet is identified by the number of the 1:1,000,000 sheet within which it falls, followed by a Russian letter to designate each quarter: A for NW, B for NE, B for SW and Г for SE. Example: M-36- Г.

3. 1:300,000 Scale

Each 1:1,000,000 sheet area is divided into nine 1:300,000 sheets, each covering 1°20' of latitude and 2° of longitude.

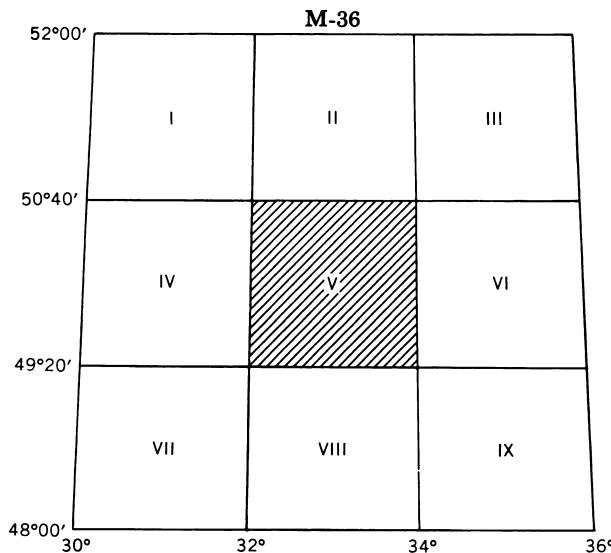


FIGURE 2. 1:300,000 scale division of 1:1,000,000 sheet M-36.

Each sheet is identified by a Roman numeral that precedes the 1:1,000,000 sheet number. Example: V-M-36.

4. 1:200,000 Scale

There have been several variations of the format and numbering systems used during the history of the 1:200,000 scale maps. Three of these, recently and presently used, are described below.

- a. One numbering system divides the 1:1,000,000 sheet area into 36 1:200,000 sheets, each covering 40' of latitude and 1° of longitude.

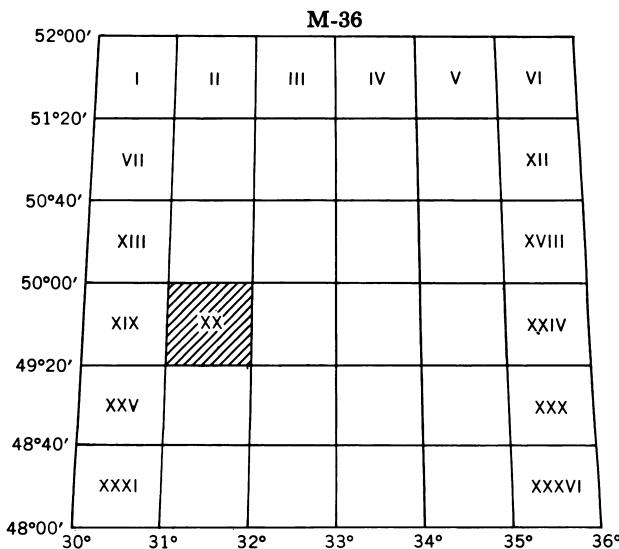


FIGURE 3. Method 1, 1:200,000 scale division of 1:1,000,000 Sheet M-36.

Each sheet is identified by the number of the 1:1,000,000 sheet within which it falls, followed by a Roman numeral. Example: M-36-XX.

c. A third system divides the 1:1,000,000 sheet area into nine 1:200,000 sheets, each covering 1°20' of latitude and 2° of longitude. It will be seen in comparing diagrams that in this system each sheet contains the area of four 1:200,000 sheets shown in method No. 1. It is known as the four-in-one method.

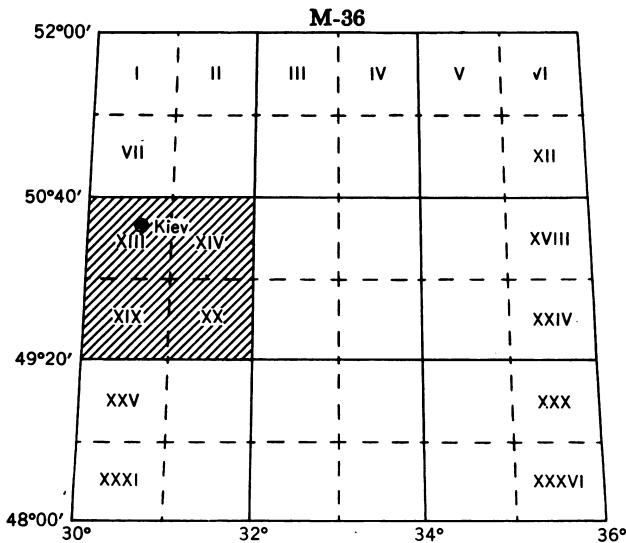


FIGURE 5. Method 3, 1:200,000 Scale division of 1:1,000,000 Sheet M-36.

In this case the 1:200,000 sheet has two identifications. At the top-center of a sheet will be the name of the principal town of the area, followed by a serial number, such as Kiev M-36-(4). The numeral 4 appears in parentheses to prevent confusion with sheet designation of 1:100,000 scale maps. A second sheet identification is found in the upper-right corner, such as, M-36-XIII, XIV, XIX, XX which indicates the numbers of the basic 1:200,000 scale maps involved in the single sheet. Example: Kiev M-36-(4) and M-36-XIII, XIV, XIX, XX.

5. 1:100,000 Scale

Each 1:1,000,000 sheet area is divided into 144 1:100,000 sheets, each covering 20' of latitude and 30' of longitude.

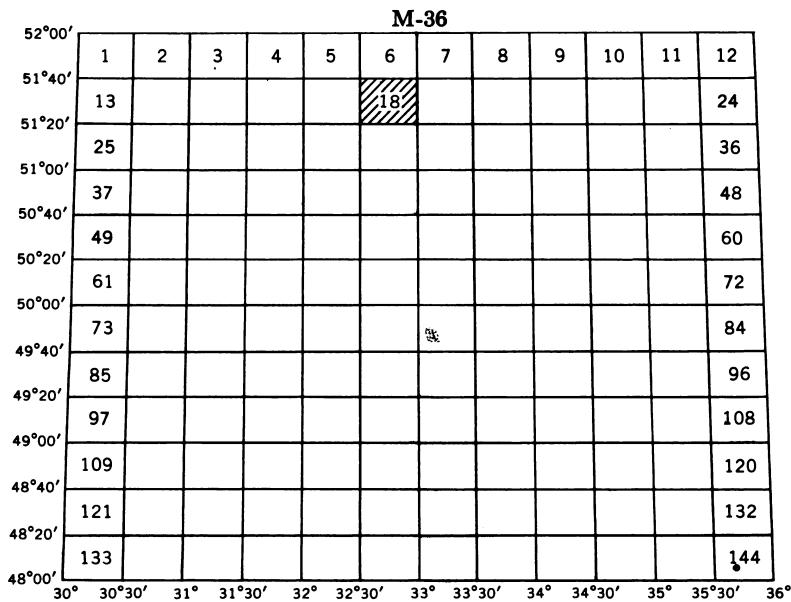


FIGURE 6. 1:100,000 scale division of 1:1,000,000 Sheet M-36.

Each sheet is identified by the number of the 1:1,000,000 sheet within which it falls, followed by an Arabic number. Example: M-36-18.

6. 1:75,000 Scale

The sheet line diagram and numbering system of the 1:75,000 scale maps is not illustrated. The maps were produced by Latvia previous to Soviet domination and were designed to a format and numbering system adjusted to the size and shape of Latvia only. The maps are 15' N-S x 30' E-W. Apparently the 1:75,000 scale is no longer active but the existing maps are still in use. The sheets are identified by an Arabic number followed by the name of the principal town within the map limits. Example: 102-Karsava.

7. 1:50,000 Scale

Each 1:100,000 sheet area is divided into four 1:50,000 sheets, each covering 10' of latitude and 15' of longitude.

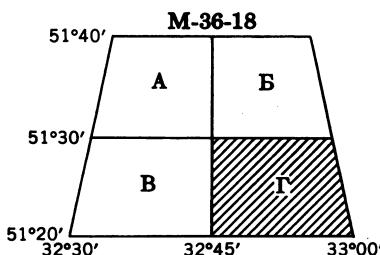


FIGURE 7. 1:50,000 scale division of 1:100,000 sheet M-36-18.

Each sheet is identified by the sheet number of the 1:100,000 sheet within which it falls, followed by A, B, E or Г , representing the NW, NE, SW, and SE quarters respectively. Example: M-36-18-Г.

8. 1:25,000 Scale

Each 1:50,000 sheet area is divided into four 1:25,000 sheets, each covering 5' of latitude and 7'30" of longitude.

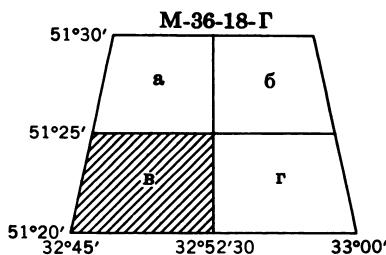


FIGURE 8. 1:25,000 scale division of 1:50,000 sheet M-36-18-Г.

Each sheet is identified by the number of the 1:50,000 sheet within which it falls, followed by the Russian letter а, б, в or г , representing the NW, NE, SW and SE quarters, respectively. Example: M-36-18-Г - в.

9. 1:10,000 Scale

Each 1:25,000 sheet area is divided into four 1:10,000 sheets, each covering 2'30" of latitude and 3'45" of longitude.

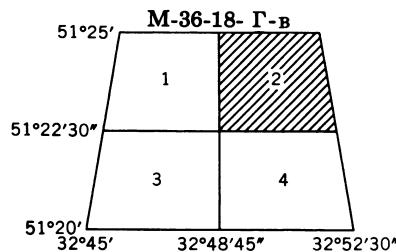


FIGURE 9. 1:10,000 scale division of 1:25,000 sheet M-36-18- Γ -Β.

Each sheet is identified by the number of the 1:25,000 sheet in which it falls, followed by an Arabic number - 1, 2, 3 or 4. Example: M-36-18- Γ -Β-2.

CHAPTER 2

**Symbolization for Maps at the Scales of
1:25,000, 1:50,000, 1:75,000, 1:100,000**

SECTION I—Inhabited Places

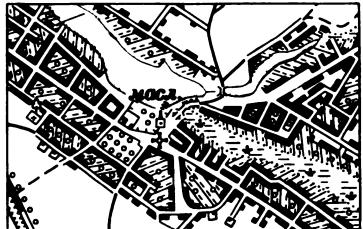
1. Large city _____



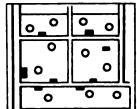
2. Summer settlement _____

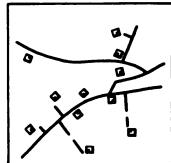


3. Rural settlement _____



4. Camp _____





5. Scattered settlement _____



6. Built-up area with fireproof buildings predominant _____



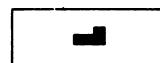
7. Built-up area with non-fireproof buildings predominant _____



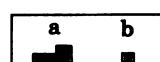
8. Partly demolished buildings _____



9. Demolished buildings _____



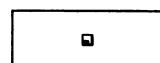
10. Prominent industrial building _____



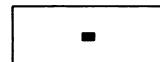
11. Individual fireproof building
a. Drawn to scale
b. Not drawn to scale _____



12. Individual dwelling, fireproof _____



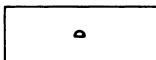
13. Individual farm or dwelling, not drawn to scale _____

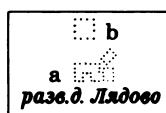


14. Dwelling or non-dwelling in sparsely settled area; isolated non-dwelling (barn, shed, etc.) _____

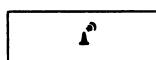


15. Somon (rayon center) and urto (post-relay station) _____

16. Location of tents _____ 

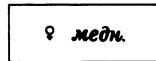
17. Ruins
a. Lyadovo (farm ruins)
b. Ruins of individual dwelling _____ 
раз.д. Лядово

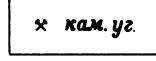
SECTION II—Industrial and Agricultural Features

18. Factory or mill chimney _____ 

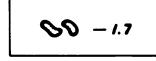
19. Factory or mill with chimney _____ 
бум.

20. Factory or mill without chimney _____ 
сип.

21. Mine or open-pit mine _____ 
медин.

22. Operating shaft, gallery, or mine _____ 
кам. уг.

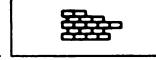
23. Non-operating shaft, gallery or mine _____ 
х

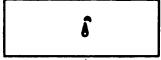
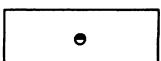
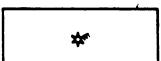
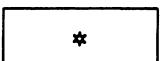
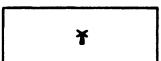
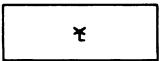
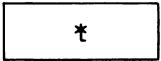
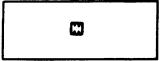
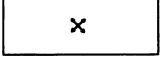
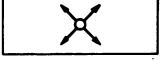
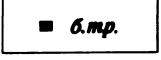
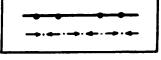
24. Pit _____ 
— 1.7

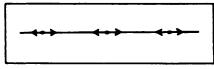
25. Tailings pile _____ 
▲

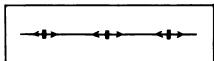
26. Stone quarry _____ 
гл. пес. кам.

27. Salt mine _____ 
сол.

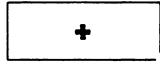
28. Peat cuttings _____ 

- 29. Oil or natural gas derrick _____ 
30. Fuel storage or natural gas tank _____ 
31. Gasoline pump or service station _____ 
32. Elevator (grain, etc.) _____ 
33. Water-powered sawmill _____ 
34. Water-powered flour mill _____ 
35. Stone windmill _____ 
36. Wooden windmill _____ 
37. Wind-driven motor _____ 
38. Apiary _____ 
39. Corral _____ 
40. Power station _____ 
41. Small hydroelectric power station _____ 
42. Transformer station _____ 
43. Overhead line (low tension) _____ 

44. Overhead line (high tension) on poles _____ 

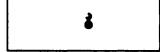
45. Overhead line (high tension) on metal towers _____ 

SECTION III—Orientation Points and Local Features

46. Stone church _____ 

47. Wooden church
(On 1:100,000 scale maps, both stone and wooden churches are shown with this symbol) _____ 

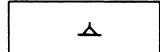
48. Chapel _____ 

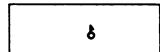
49. Stone mosque
(On 1:100,000 scale maps, both stone and wooden mosques are shown with this symbol) _____ 

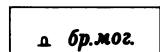
50. Wooden mosque _____ 

51. Buddhist lamasery, temple, or pagoda _____ 

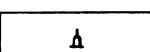
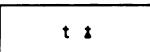
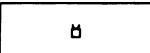
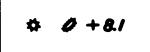
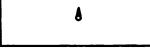
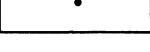
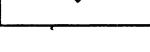
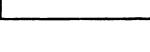
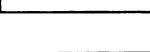
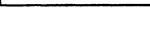
52. Buddhist roadside shrine _____ 

53. Cairn _____ 

54. Small Moslem shrine or tomb _____ 

55. Common grave _____ 

USSR

56. Memorial monument _____ 
57. Statue or monument _____ 
58. Cross or religious shrine, individual tomb _____ 
59. Cemetery _____ 
60. Cemetery with trees _____ 
61. Cattle burial site _____ 
62. Burial mound (height indicated in meters) _____ 
63. Observation tower _____ 
64. Tower-like structure or building _____ 
65. Water tower _____ 
66. Boundary marker serving as landmark _____ 
67. Semaphore or signal light used as landmark _____ 
68. Road signpost _____ 
69. Kilometer post _____ 

70. Isolated coniferous tree serving as landmark (1. fir, spruce; 2. pine, cedar; 3. larch) _____ 1 2 3
† † †
71. Isolated deciduous tree serving as landmark (4. oak, beech, maple, etc.; 5. birch, aspen, etc.) _____ 4 5
◊ ◊
72. Stand of trees serving as landmark _____ *** *** ***
73. Individual bushes _____ •••
74. Individual bushes in steppe areas _____ ••
75. Trees in plantations, vegetable gardens, towns, etc. _____ •
76. Isolated boulder (height indicated in meters) _____ ▲ +1.7
77. Rocks, boulders _____ ■■■
78. Forest service station _____ ■■■
79. Forest rangers house _____ ■■■
80. Meteorological station _____ ■

SECTION IV—Geodetic Points

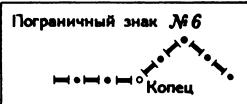
81. Astronomical point _____ ★ acmp.
82. Triangulation point _____ △ 92.6

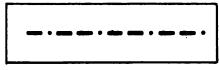
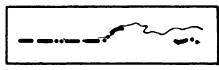
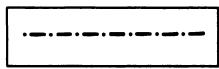
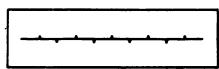
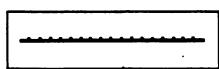
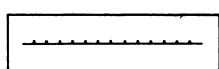
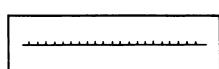
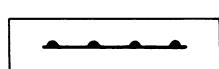
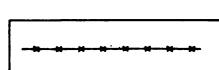
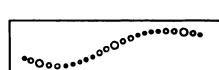
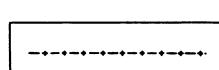
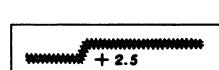
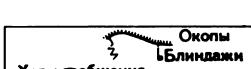
83. Trigonometrical point on burial mound _____ ▲ 95.7
84. Bench mark, monumental _____ ● 71.1
85. Bench mark _____ □ 52.1

SECTION V—Pipelines

86. Natural gas conduit (surface) _____ —○—○—○—
87. Natural gas conduit (underground) _____ —○—○—○—
88. Oil conduit (surface) _____ ———
89. Oil conduit (underground) _____ =—=—=—=—=

SECTION VI—Boundaries and Barriers

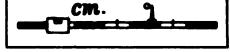
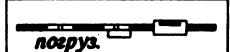
90. International boundary, boundary marker, and boundary post (No. 6) _____ 
91. U.S.S.R. polar possession boundary _____ ○—○—○—○—○—○—○—○—
92. Boundary of Soviet Socialist Republic (SSR) _____ —●—●—●—●—●—●—●—●—
93. A.S.S.R., kray, or oblast boundary _____ —·—·—·—·—·—·—·—

94. Autonomous oblast or kray boundary _____ 
95. National okrug boundary _____ 
96. Rayon boundary _____ 
97. State Wild Life Sanctuary boundary _____ 
98. Stone or brick wall over 1 meter high _____ 
99. Stone, brick, or clay wall, less than 1 meter high _____ 
100. Wooden fence _____ 
101. Metal fence _____ 
102. Rail or wattle fence _____ 
103. Hedge _____ 
104. Barbed wire fence _____ 
105. Artificial embankment, small
fill (height indicated in meters) _____ 
106. Trench, communication trench, and dugout _____ 

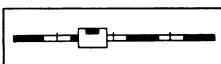
SECTION VII—Communications

107. Telegraph office _____ ☒
108. Telephone station _____ ☐
109. Radio station _____ ☒
110. Radio tower _____ ☒
111. Airfield or seaplane base _____ ☒
112. Landing strip (land and water) _____ ☒
113. Telegraph or telephone line _____ —·—·—·—·—
114. Submarine cable _____ —·—·—·—·—

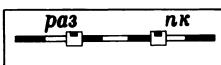
SECTION VIII—Railroads

115. Three-track railroad with first class station, roundhouse, and turntable _____ 
116. Double-track railroad and second class station _____ 
117. Single-track railroad with road bed for second track; third class station _____ 
118. Double-track railroad; second or third class station; loading platform _____ 

119. Single-track railroad with roadbed for second track; fourth or fifth class station _____

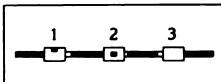


120. Single-track railroad, siding, and platform _____



121. Location of main station building:

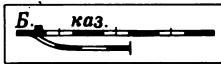
1. On one side of the track
2. Between the tracks
3. Location unknown _____



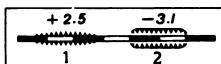
122. Electrified double-track railroad and block signal _____



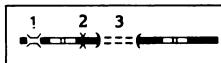
123. Section house, barracks, and dead end _____



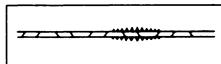
124. 1. Fill (height indicated in meters)
2. Cut (depth indicated in meters) _____



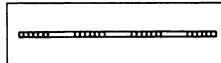
125. 1. Small bridge 2. Pipe (culvert) 3. Tunnel _____



126. Dismantled railroad _____



127. Railroad under construction _____



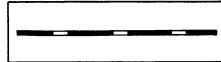
128. Trolley _____



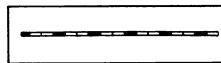
129. Narrow-gauge railroad and station _____

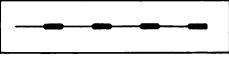


130. Electrified narrow-gauge railroad _____



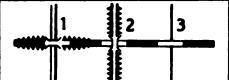
131. Railroad, horse-drawn or tractor-drawn _____



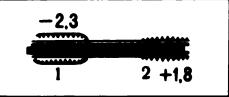
132. Suspension railroad _____ 

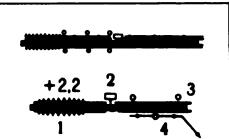
133. Railroad, approximate alignment _____ 

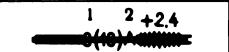
134. Station and tracks drawn to scale;
pedestrian bridge _____ 

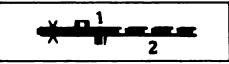
135. Crossing: 1. Under railroad tracks
2. Over railroad tracks 3. Same level _____ 

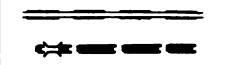
SECTION IX—Roads

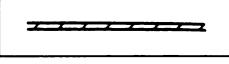
136. Main highway (super highway, arterial highway)
1. Cut (depth indicated in meters)
2. Fill (height indicated in meters) _____ 

137. Improved highway (asphalt, bitumen, concrete)
1. Fill; 2. kilometer post;
3. Plantings;
4. Telegraph or telephone lines _____ 

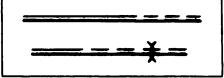
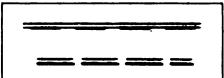
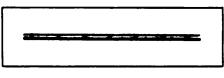
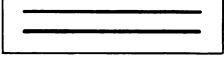
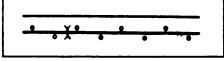
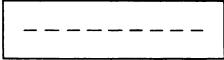
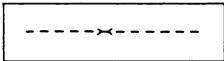
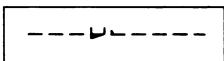
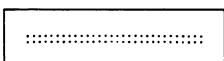
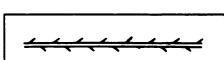
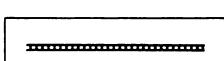
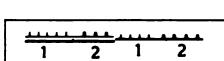
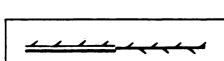
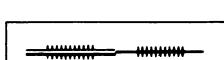
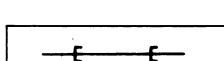
138. Highway
1. Over-all width of paved strip with shoulders
2. Type of pavement:
A. asphalt and others _____ 

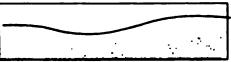
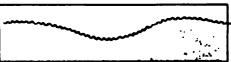
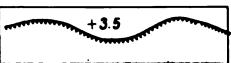
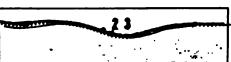
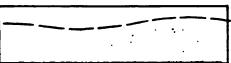
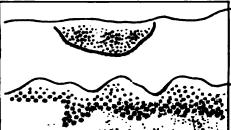
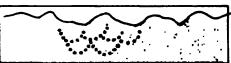
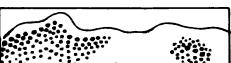
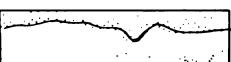
139. 1. Roadside building of light construction, shed
2. Section of road difficult to negotiate _____ 

140. Highway under construction _____ 

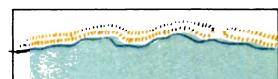
141. Highway, approximate alignment _____ 

142. Improved dirt road (graded, former post
and truck road)
1. width of road
2. Steep grade, over 7° _____ 

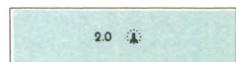
143. Section of road difficult to negotiate _____ 
144. Improved dirt road under construction _____ 
145. Improved dirt road, approximate alignment _____ 
146. Main dirt (country) road _____ 
147. Dirt (country) road _____ 
148. Field and forest road, caravan route, pack trail, or section of dirt road difficult to negotiate _____ 
149. Footpath and pedestrian bridge _____ 
150. Cliff gallery (man made) _____ 
151. Winter road _____ 
152. Cattle run _____ 
153. Road paved with wood, road for tractor _____ 
154. Road with fence:
 1. Wooden fence
 2. Stone wall _____ 
155. Road with fence _____ 
156. Corduroy road, causeway, and fascine _____ 
157. Chute for logs and other material _____ 

SECTION X—Hydrography158. Permanent shoreline _____ 159. Gradually sloping shore _____ 160. Precipitous shore, 1 to 2 meters high _____ 161. Precipitous shore, over 2 meters high,
without beach _____ 162. Precipitous shore, over 2 meters high,
with beach, not drawn to scale _____ 163. Shore, approximate alignment _____ 164. Tidal flats _____ 165. Dangerous shore (breakers, rocks, etc.) _____ 166. Shoal; Sandbank _____ 167. Clifffy shore _____ 168. Rocky shore _____ 169. Sandy shore _____ 

170. Shore embankment, not drawn to scale _____



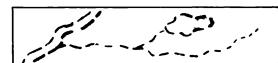
171. Rocks above the water level _____



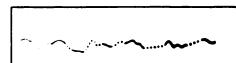
172. Small stream and small river _____



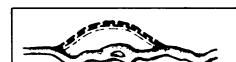
173. Intermittent streams and lake _____



174. Underground and dwindling section of river _____



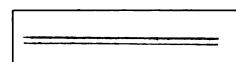
175. Flood limit _____



176. River and canal, approximate alignment _____



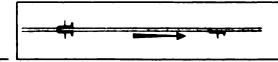
177. Canal _____



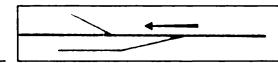
178. Canal under construction _____



179. Canalized river or canal over 3 meters wide with water distribution installations _____



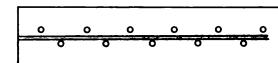
180. Canalized section of river, canal or ditch, less than 3 meters wide _____



181. River or ditch with embankment _____



182. Trees or bushes along river, canal or ditch _____



183. Width and depth of stream, in meters
(numerator indicates width; denominator indicates depth) _____

184. Ford (numerator indicates depth of the ford in meters; the denominator indicates the type of bottom; T-hard, B-viscous, K-stony, II-sandy) _____

185. Crossing _____

186. Ferry (five-ton capacity) _____

187. Small bridge, less than 10 meters in length _____

188. Bridge over 10 meters long (numerator indicates length; denominator indicates load capacity in tons) _____

189. Bridge on rafts _____

190. Pontoon bridge _____

191. Wooden bridge _____

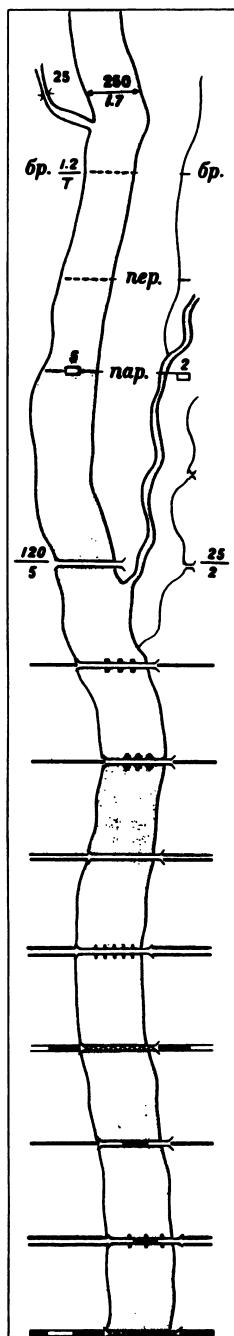
192. Stone or ferro-concrete bridge _____

193. Metal bridge _____

194. Wooden bridge _____

195. Stone or ferro-concrete bridge, draw or swing _____

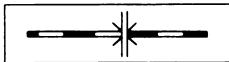
196. Iron bridge, draw or swing _____



197. Double tier bridge:
 1. Highway under a railroad
 2. Highway over a railroad _____



198. Aqueduct _____



199. Dam (earthen, wooden, stone, or ferro-concrete) _____

200. Submerged dam _____

201. Lock or sluice (wooden, stone, ferro-concrete, or metal) _____

202. Log trestle, log dam _____

203. Jetty controlling the direction of current _____

204. Waterfall (height shown in meters) _____

205. Rapids _____

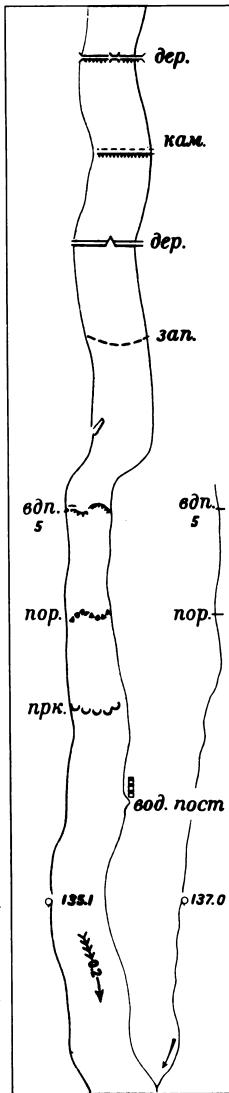
206. Bar _____

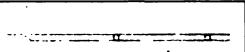
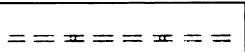
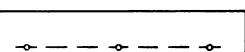
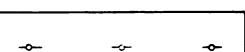
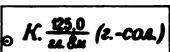
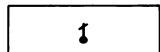
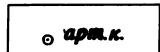
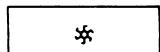
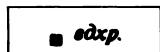
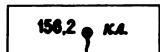
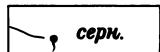
207. Water gauge _____

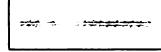
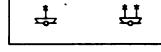
208. Water level mark _____

209. Direction and velocity of river current _____

210. Direction of flow _____



211. Surface water conduit _____ 
212. Underground water conduit _____ 
213. Underground water conduit with wells _____ 
214. Underground water conduit with wells
not in operation _____ 
215. Prominent well in steppe and desert
area, and characteristics _____ 
к.Дин $\frac{300.5}{22.25m}$
216. Well _____ 
к. $\frac{25.0}{22.25}$ (2-соз.)
217. Draw-well _____ 
218. Well with wind-driven motor _____ 
219. Artesian well _____ 
артез.
220. Water wheel _____ 
вод.
221. Water reservoir or rain water pit _____ 
одхр.
222. Rain water pit (in Central Asia) _____ 
**как
сад.**
223. Spring _____ 
156.2 кн.
224. Mineral spring _____ 
серн.

225. Geyser _____ гейзер
226. 1. Anchorage for large and small vessels
2. Roadsteads and landings without equipment _____ 1
↓
2
↓
227. Wharf with buildings _____ 
228. Lumber docks _____
229. Mole, sea-wall, breakwater _____ 
230. Winter harbor _____ ↓
231. Lighthouse _____ ★
232. Buoy, beacon _____ △
233. Channel marker _____ ⊤
234. Other marker of the shore-river signal system used as orientation point _____ ⊤
235. Driftwood accumulation _____ 
236. Lightship with one or two lights _____ 
237. Sound and fog station (aerial) _____ ⊖
238. Sound and fog station (submerged) _____ ⊕

239. Buoy, beacon buoy with a figure on top _____



240. Light buoy, beacon _____



241. Barrel buoy _____



242. Spar buoy with flag _____



243. Red spar buoy (northern)
without sphere, with sphere _____



244. White spar buoy (southern)
without sphere, with sphere _____



245. White and red spar buoy (western)
without sphere, with sphere _____



246. Black and white spar buoy (eastern)
without sphere, with sphere _____



247. Spar buoy with cross
without sphere, with sphere _____



248. Spar buoy in range _____



249. Beacon in range _____



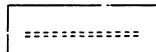
250. Submerged sound signal connected with
shore _____



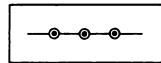
251. Submerged sound signal not connected
with shore _____



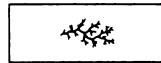
252. Electric pilot, guide cable _____



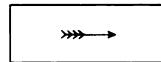
253. Pile _____



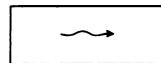
254. Seaweed _____



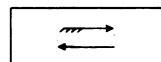
255. Constant current _____



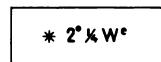
256. Changeable current _____



257. Tidal current (the feathered arrow indicates flood tide; plain arrow indicates ebb tide) _____



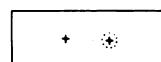
258. Magnetic anomalies _____



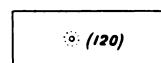
259. Sunken rock _____



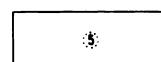
260. Rock awash (if outlined, location is known; without outline, location is unknown) _____



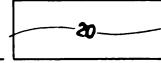
261. Sea rock _____



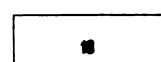
262. Small bank and spot sounding _____



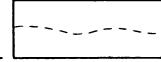
263. Isobath with value _____



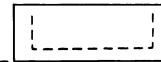
264. Depth sounding value _____



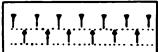
265. Waterway without depth sounding _____

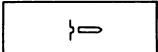


266. Restricted zone or training area (on water only) _____



USSR

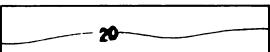
267. Marine channel _____ 

268. Dry dock _____ 

269. Slipway _____ 

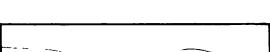
SECTION XI—Relief

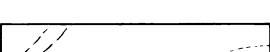
270. Heavy (index) contour line _____ 

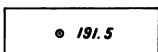
271. Intermediate contour line and value _____ 

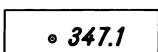
272. Half contour line (supplementary) _____ 

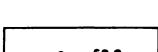
273. Auxiliary contour line at any altitude _____ 

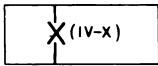
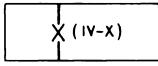
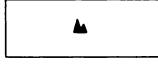
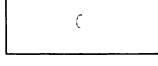
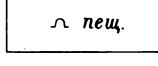
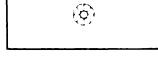
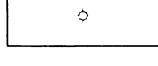
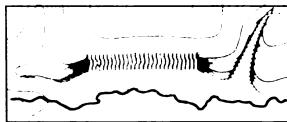
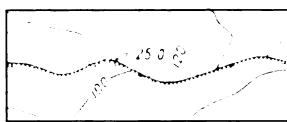
274. Indicator of downward slope _____ 

275. Dry river bed _____ 

276. Spot elevation value _____ 

277. Value of prominent spot elevation _____ 

278. Value of point below sea level _____ 

279. Main mountain pass (Roman numerals indicate the months of the year when the passes are open; -IV -X means open April through October) 
280. Mountain pass (Roman numerals indicate the months of the year when the passes are open) 
281. Monadnock, height of rock indicated in meters 
282. Karst funnel, not drawn to scale 
283. Cave or grotto 
284. Crater of volcano, not drawn to scale 
285. Crater of mud geyser 
286. Volcanic manifestation (underwater volcanic eruptions and seepages of hot gases) 
287. Lava stream 
288. Steep slope (grassy) 
289. Scarps (height indicated in meters) 
290. Sand and earth avalanche 

291. Stone, crushed stone, and gravel avalanche _____



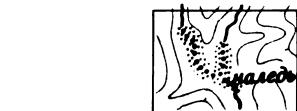
292. Narrow ravine and washout _____



293. 1. Ravine with steep slopes
2. Ravine subject to growth (erosion) _____



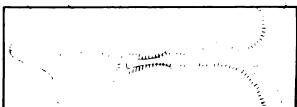
294. Secondary ice on frozen river _____



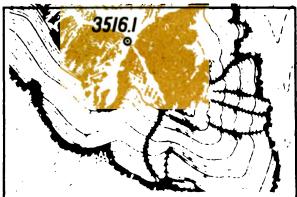
295. Land creep _____



296. Terrace ledge and ravine, with grassy slopes _____



297. Cliffs _____



298. Rock debris _____



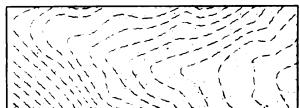
299. Dike _____



300. Outcoppings of bedrock _____



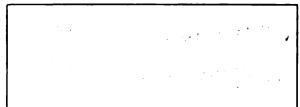
301. Firn (permanent snow) _____



302. Glacier _____



303. Moraine _____



304. Terminal moraine _____

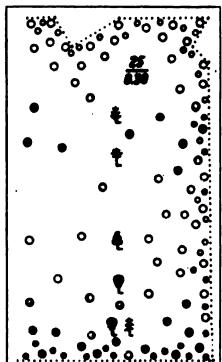


SECTION XII—Soils and Vegetation

Forest may be shown by a green tint plus the variety symbol or it may also carry the tree-type symbol. Ruled tint indicates immature trees.
Solid tint indicates maturity.

305. Forest

Coniferous _____



Deciduous _____

Mixed _____

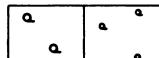
306. Average height and diameter of trees
in meters (numerator indicates height,
denominator indicates diameter) _____

$$\frac{20}{0.25} \quad \frac{25}{0.30}$$

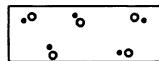
307. Dwarf (low) forest _____



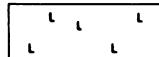
308. 1. Sparse forest 2. Sparse dwarf forest _____



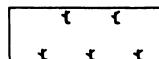
309. Small wooded area not drawn to scale _____



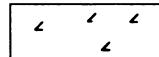
310. Cut-over forest _____



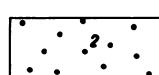
311. Burned-over forest _____



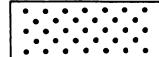
312. Wind-felled forest _____



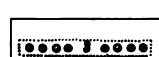
313. Stand of trees up to 4 meters high
(the average height—2 meters) _____



314. Tree nursery or young tree planting _____



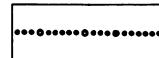
315. Narrow strip of forest (average height
of trees in meters) _____



316. Narrow strip of forest _____



317. Narrow strip of plantings up to 4 meters high _____



318. a. Narrow strip of scrub (bushes or hedge) _____

b. Types of scrub _____

Coniferous _____

Deciduous _____

Mixed _____

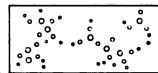
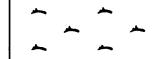
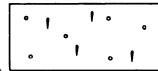
319. The average height of scrub in meters
(diameter not indicated) _____

42 ± 3

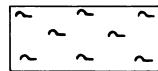
320. Palms; grove of palm trees _____

1 2 3

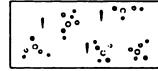
321. Scrub _____

322. Saksaul (type of low growth in Central
Asian desert) _____323.
Brush in high mountain and tundra regions _____

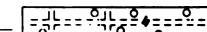
Scrub in high mountain and tundra regions _____



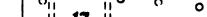
324. Thorny scrub _____



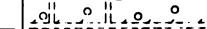
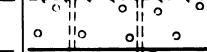
325. Firebreak (width indicated in meters) _____



326. Firebreak lined by ditches _____



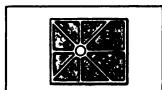
327. Firebreak with fences _____

328. Road along the firebreak (the symbol
for the firebreak is not shown) _____329. Telegraph or telephone lines in the cen-
ter and on the edge of firebreak _____

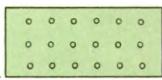
330. Boundary along firebreak _____



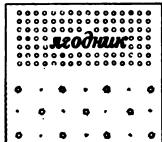
331. Park, with roads _____



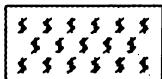
332. Fruit orchard _____



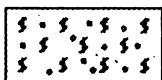
333. Berry plantation (currant, raspberry, and others) _____



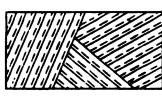
334. Vineyard _____



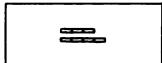
335. Fruit orchard and vineyard _____



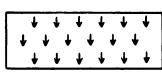
336. Vegetable gardens _____



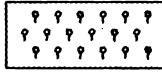
337. Hot-beds _____



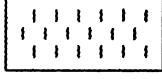
338. Rice plantation _____



339. Tea plantation _____



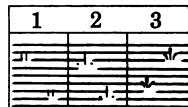
340. Hop plantation _____



341. Other plantation _____



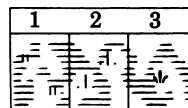
342. Swamp, impassable 1. grass 2. moss
— 3. reed or cane _____



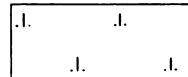
343. Swamp, hard to pass (depth indicated in meters)
1. grass 2. moss 3. reed or cane _____



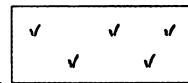
344. Swamp, passable 1. grass 2. moss 3. reed or cane (The degree of passability of bogs is determined on the basis of their passability in summer for infantry without any artificial measures being taken) _____



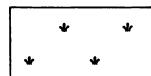
345. Moss _____



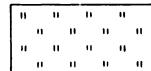
346. Bamboo _____



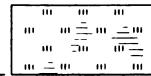
347. Reed or cane thicket _____



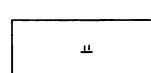
348. Meadow _____



349. Marshland (some trees) _____



350. Wet ground (not drawn to scale) _____



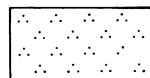
351. Tall grass (over 1 meter high) _____



352. Pasture (shown on 1:25,000 maps only) _____



353. Hummocks _____



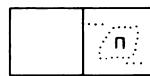
354. Knolls, not drawn to scale (tundra and taiga regions) _____



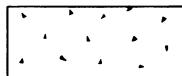
355. Tundra _____



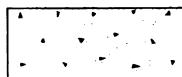
356. Plowed field, pasture (small sections in sparsely populated areas, serving as orientation point, to be marked "II" (plowed field) or with the initial letter of the word for plowed field _____



357. Rocky terrain (outcropping of bedrock) _____



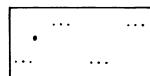
358. Gravel _____



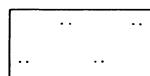
359. Polygonal terrain sections _____



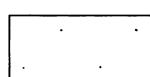
360. Grassy steppes _____



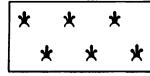
361. Semi-desert type of vegetation (wormwood & other low scrub) _____



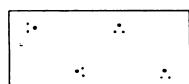
362. Desert area consisting of clay, loose rocks, sparse vegetation _____



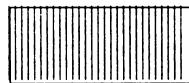
363. Type of feather grass, up to 1.5 meters in height, growing on hummocks _____



364. Low scrub (blueberries, huckleberries, heather, etc.) _____



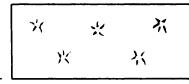
365. Solonchak, impassable _____



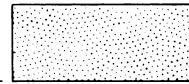
366. Solonchak, passable _____



367. Takyrs (salt clay flats) _____



368. Sand _____



369. Hilly sand _____



370. Sand knolls (ridges, dunes) _____



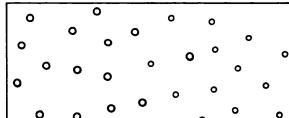
371. Crescent dunes _____



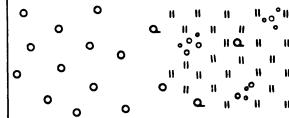
372. Porous sand _____

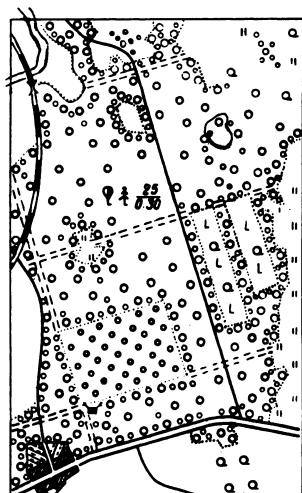


373. Transition from tall to dwarf (low) forest _____

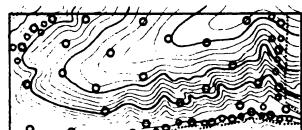


374. Gradual transition from forest to sparse forest, scrub, and meadow _____

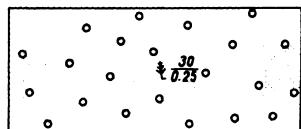




375. Combined symbolization, forest with
other features on the map _____



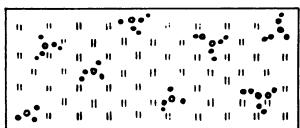
376. Forest on steep slopes (indicated by
closely drawn contour lines) _____



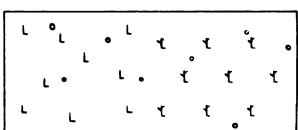
377. Pine forest on sand _____



378. Forest and scrub _____

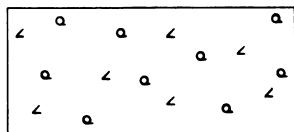


379. Meadow with scrub _____

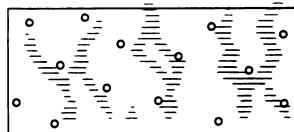


380. New growth on cut-over or burned-over
timberland _____

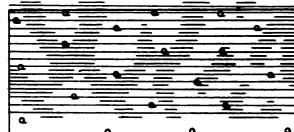
381. Sparse forest with wind-felled trees



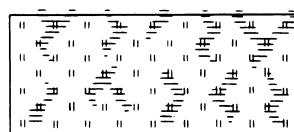
382. Swampy forest



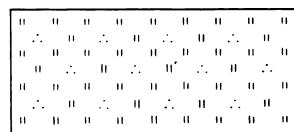
383. Sparse dwarf forest in impassable swamp



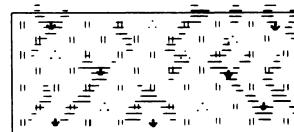
384. Swampy meadow (marsh land)



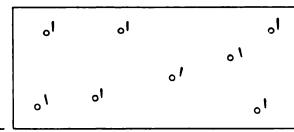
385. Hummocks in meadow



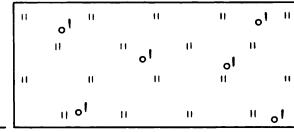
386. Swampy hummocks and reeds



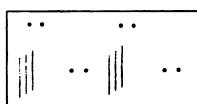
387. Brush



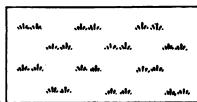
388. Alpine meadow with brush



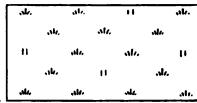
389. Semi-desert vegetation and solonchak _____



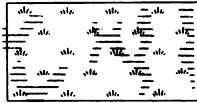
390. Hilly tundra _____



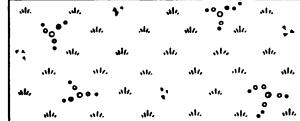
391. Tundra with lichens _____



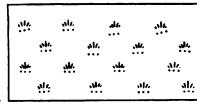
392. Swampy tundra _____



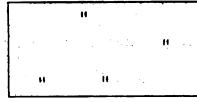
393. Tundra—stony, with scrub _____



394. Tundra—sandy _____



395. Sand, stabilized by grassy vegetation _____



396. Sand knolls with saksaul and scrub _____



SECTION XIII—Type Specimens

POPULATED PLACES

397. Capitals of Soviet Socialist Republics,
and capitals of non-Soviet countries

1:25,000, 1:50,000 _____ **КИЕВ**
1:75,000 _____ **КИЕВ**
1:100,000 _____ **КИЕВ**

398. Capitals of ASSR, centers of krays and oblast's

1:25,000, 1:50,000 _____ **ОРЕЛ**
1:75,000 _____ **ОРЕЛ**
1:100,000 _____ **ОРЕЛ**

399. Centers of autonomous oblast's and
intra-krai oblast's (i.e. oblast' within
a kray); centers of national and ad-
ministrative okrugs; larger cities

1:25,000, 1:50,000 _____ **ХОРОГ**
1:75,000 _____ **ХОРОГ**
1:100,000 _____ **ХОРОГ**

400. Cities with population under 20,000

1:25,000, 1:50,000 _____ **ОНЕГА**
1:75,000 _____ **ОНЕГА**
1:100,000 _____ **ОНЕГА**

401. Urban settlements, workers' settle-
ments, and summer settlements

1:25,000, 1:50,000 _____ **РЕУТОВО**
1:75,000 _____ **РЕУТОВО**
1:100,000 _____ **РЕУТОВО**

402. Market towns and large villages

1:25,000, 1:50,000 _____ м. ЛИОЗНО

1:75,000 _____ м. ЛИОЗНО

1:100,000 _____ м. ЛИОЗНО

403. Suburbs

1:25,000, 1:50,000 _____ приг., пос.

1:75,000 _____ приг., пос.

1:100,000 _____ приг., пос.

404. Rural settlements, over 400 households

1:25,000, 1:50,000 _____ Рудня

405. Rural settlements, 200 to 400 households

1:25,000, 1:50,000 _____ Боровица

406. Rural settlements, 100 to 200 households (for map scale 1:100,000, over 100 households)

1:25,000, 1:50,000 _____ Лиски

1:75,000 _____ Лиски

1:100,000 _____ Лиски

407. Rural settlements, 20 to 100 households

1:25,000, 1:50,000 _____ Ивановка

1:75,000 _____ Ивановка

1:100,000 _____ Ивановка

408. Rural settlements, under 20 households

1:25,000, 1:50,000 _____ Петровка

1:75,000 _____ Петровка

1:100,000 _____ Петровка

409. Sheet names and large populated places
of geographical importance

1:75,000 _____ { Шатой
Химой

1:100,000 _____ { Шатой
Химой

410. Individual farms, and explanatory notes
for symbols of plants, factories, mills,
motor service stations, etc.

1:25,000, 1:50,000 _____ цинк., бум.

1:75,000 _____ цинк., бум.

1:100,000 _____ цинк., бум.

411. State farms, trading posts, lumber
camps; in non-Soviet territory—es-
tates, farms, farmsteads, castles, etc.

сех. Красный

1:25,000, 1:50,000 _____ сех. Красный

1:75,000 _____ сех. Красный

1:100,000 _____ сех. Красный

412. Numerals indicating the number of
households

1:25,000, 1:50,000 _____ 26

1:75,000 _____ 26

1:100,000 _____ 26

MISCELLANEOUS

413. Speed of current, and width of river bed

1:25,000, 1:50,000 _____ 0.3

1:75,000 _____ 0.3

1:100,000 _____ 0.3

414. Road kilometer post numerals and num-
bers of forest sections

1:25,000, 1:50,000 _____ 17

1:75,000 _____ 17

1:100,000 _____ 17

415. Boundary posts and their markings

1:25,000, 1:50,000 _____ № 6

1:75,000 _____ № 6

1:100,000 _____ № 6

416. Length of bridges, depth of fords, bridge and ferry capacities in tons, spot elevation and depth sounding values, contour line and isobath values, height of burial mounds, scarps and fills, and depth of pits and cuts. Width of roads and firebreaks, height and thickness of timber

1:25,000, 1:50,000 _____ 10

1:75,000 _____ 10

1:100,000 _____ 10

HYDROGRAPHY

417. _____

ТИХ. ОКЕАН
ЧЕРНОЕ МОРЕ
БЕЛОЕ МОРЕ
ФИНСКИЙ ЗАЛИВ
ОНЕЖСКАЯ ГУБА
РИЖСКИЙ ЗАЛИВ
БЕЛОЕ ОЗЕРО
ВОСТОЧНЫЙ ЗАЛИВ

418. _____

БЕРННГОВ ПРОЛИВ
НЕРЧЕНСКИЙ ПРОЛИВ
ПРОЛИВ ЮГОРСКИЙ ШАР
Татарский пролив
пролив Лаперуза

419.

{ Р. ДНЕПР
Р. ДНЕПР
Р. ДНЕПР
Р. ДНЕПР
Р. ДНЕПР

420.

{ р. Лучеса
р. Лучеса
р. Лучеса

421.

{ р. Рица
р. Рица
р. Рица
р. Рица
р. Рица

HYPSOGRAPHY

422.

{ О. ВАЙГАЧ
О. ПИОНЕР
П-ОВ ТАЙМЫР
м. Канин Нос
о. Генриетта
о. Моржовец

423.

{ ПЕСКИ КАРА-КУМ
ГОЛОДНАЯ СТЕПЬ
БАРАБИНСКАЯ СТЕПЬ
ТУРАНСКАЯ НИЗМЕННОСТЬ
БАРСА КЕЛМЕС

424.

ХРЕБЕТ
ХРЕБЕТ
ХРЕБЕТ
ХРЕБЕТ

425.

Шам
Шам
Шам
Шам

CHAPTER 3

Symbolization for Maps at the Scale of 1:10,000

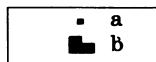
Symbols shown here are additional to those shown in Chapter 2 and are those usually shown only on 1:10,000 scale maps or larger.

SECTION I—Populated Places

SYMBOLIZATION FOR INDIVIDUAL STRUCTURES

426. Fireproof building

- a. Not drawn to scale
- b. Drawn to scale _____



427. Non-fireproof building

- a. Not drawn to scale
- b. Drawn to scale _____

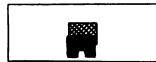


428. Non-fireproof building (non-dwelling)

- a. Not drawn to scale
- b. Drawn to scale _____
(Shown only within the built-up area for
a populated place of rural type)



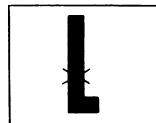
429. Prominent fireproof building _____



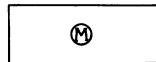
430. Open entrance to yard _____



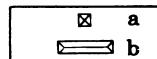
431. Archway entrance to yard _____



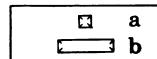
432. Subway entrance _____



433. Vegetable storage
a. Not drawn to scale
b. Drawn to scale _____



434. Shed
a. Not drawn to scale
b. Drawn to scale _____

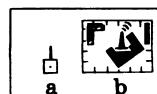


435. Tent (skin, felt, bark) _____

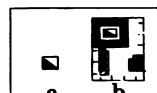


SECTION II—Physical and Cultural Features

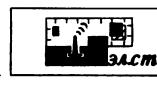
436. Factory, mill, and flour mill, with chimneys
a. Not drawn to scale
b. Drawn to scale _____



437. Factory, mill, and flour mill, without chimneys
a. Not drawn to scale
b. Drawn to scale _____



438. Power station, drawn to scale _____



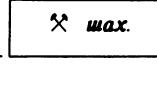
439. Hydroelectric power station, drawn to scale _____



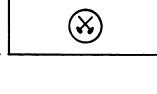
440. Entrance to major operating shaft
(elevator, ventilator-equipped) or gallery _____



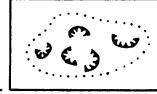
441. Entrance to auxiliary operating shaft _____



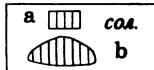
442. Entrance to major non-operating shaft
(elevator, ventilator-equipped) _____



443. Abandoned open-pit mine or quarry _____



444. Open-pit salt mine
 a. Not drawn to scale
 b. Drawn to scale _____



445. Oil seepage
 a. Not drawn to scale
 b. Drawn to scale _____



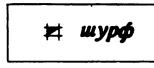
446. Oil deposit or well
 a. Not drawn to scale
 b. Drawn to scale _____



447. Oil well without derrick, but with motor pump _____



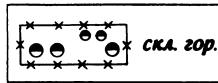
448. Prospect well _____



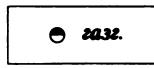
449. Drill hole _____



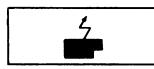
450. Fuel storage tanks, drawn to scale _____



451. Natural gas tank _____



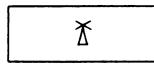
452. Radio station, drawn to scale _____



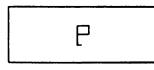
453. Telephone station, drawn to scale _____



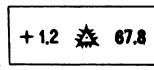
454. Wooden windmill (flour) _____

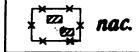
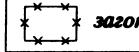
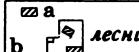


455. Autobus and trolley bus stop (outside city limits) _____



456. Triangulation point on burial mound _____



457. Bench mark on the ground or on the side of rock (the numerator shows the value for bench mark center and the denominator the value for ground level) _____
-  125.4
125.1
458. Apiary, drawn to scale _____
-  пасека
459. Corral, drawn to scale _____
-  загон
460. Individual bushes _____
- 
461. Forest district office
 a. Not drawn to scale
 b. Drawn to scale _____
-  а) нечлен
б) член
462. Forester's lodge, drawn to scale _____
-  лесх.
463. Stone church, drawn to scale _____
- 
464. Wooden church, drawn to scale _____
- 
465. Stone chapel _____
- 
466. Wooden chapel _____
- 
467. Stone mosque, drawn to scale _____
- 
468. Wooden mosque, drawn to scale _____
- 
469. Buddhist lamasery, temple, or pagoda, drawn to scale _____
- 

470. Cattle burial site, drawn to scale _____ □ CKOM. MOZ.

471. Pit
 a. Not drawn to scale _____
 b. Drawn to scale _____ a x b -1,5

472. Burial mound _____ * + 2.0

473. Tailings pile
 a. Not drawn to scale _____
 b. Drawn to scale _____ b +7,0 omeas a Δ

474. Submarine or underground cable _____ — — — — —

475. Overhead power line (low tension) _____ — — — — —

SECTION III—Railroad Lines and Installations

476. Triple-track railroad, station building, turntable, and roundhouse _____ OK3. deno

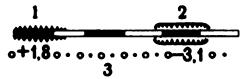
477. Double-track railroad and station building _____ cm.

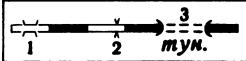
478. Single-track railroad with roadbed for second track, and loading platform _____ noeryz.

479. Single-track railroad with single roadbed, siding, and platform _____ pa3. платф.

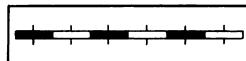
480. Electrified double-track railroad, block-signal tower, and section post _____ 6a. n. num. n.

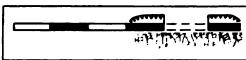
481. Section house, barracks, dead-end, and overhead light signals (structural steel arch) _____ 

482. 1. Fill 2. Cut 3. Hedge _____ 

483. 1. Small bridge 2. Pipe (culvert) 3. Tunnel _____ 

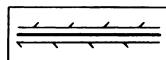
484. Narrow-gauge railroad line and station _____ 

485. Elevated railroad _____ 

486. Gallery or balcony on the side of a cliff _____ 

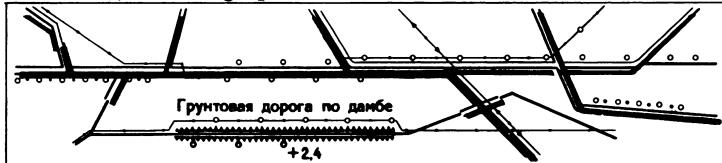
487. Gallery or balcony on the side of a slope _____ 

SECTION IV—Motor Truck Roads and Trails

488. Cattle run over 10 meters wide, fenced, and with dirt road running through it. _____ 

SECTION V—Examples of Highway and Railroad Symbolization

489. Crossings and junctions of truck roads, trees (shoulder stabilizers), and telegraph or telephone lines

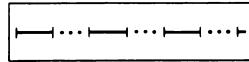


**490. Change in type of pavement on the highway
(indicated by the Russian letters A, B) _____**

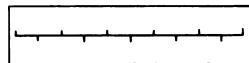


SECTION VI—Boundaries and Fences

491. Boundary of urban community _____

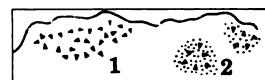


492. Boundary of state wild life sanctuary _____



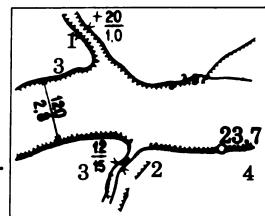
SECTION VII—Hydrography

493. Shoal
1. Stone
2. Gravel _____

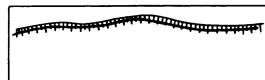


494. Precipitous shore, without beach

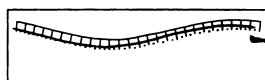
1. The width of river on the map, over 1.5mm.
2. The width of river on the map, less than 1.5mm
3. Width and depth of stream
4. Water level value _____



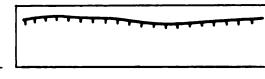
495. Shore with built-up but not reinforced slope _____



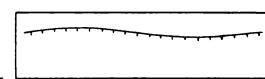
496. Shore with built-up reinforced slope _____



497. Stone quay —



498 Wooden quay





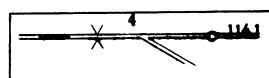
499. Ramp and stairs to quay _____



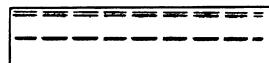
500. Changes of intermittent and perennial sections in stream _____



501. Underground or dwindling section of stream _____



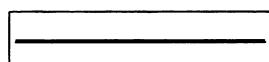
502. Canalized section of river, canal, or ditch, 3-5 meters wide; those over 5 meters wide are drawn to scale; 4 = the width in meters _____



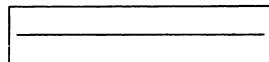
503. Canal under construction; double line, single line _____



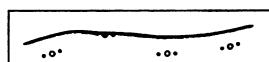
504. Subterranean canal _____



505. Dry ditch, 3 to 5 meters wide _____



506. Dry ditch, less than 3 meters wide _____



507. Bushes along stream _____



508. Bridge, wooden _____



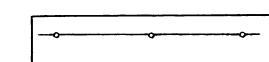
509. Single line canal _____



510. Dam without a road _____



511. Jetties, controlling the direction of current _____

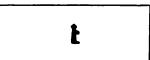


512. Penstock (open) _____

513. Underground water conduit with wells
(not functioning) _____



514. Water pump _____



515. Water reservoir or rain water pit

a. Not drawn to scale

b. Drawn to scale _____



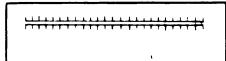
516. Fountain _____



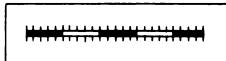
517. Landing: a. Not drawn to scale b. Drawn to scale _____



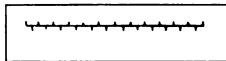
518. Mole or anchorage _____



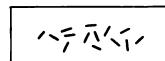
519. Mole, carrying railroad _____



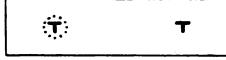
520. Breakwater _____



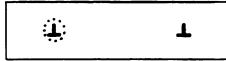
521. Driftwood accumulation _____



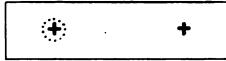
522. Sunken rock (if outlined, location is known; if not outlined, location is unknown) _____



523. Rock above the water level (if outlined, location is known; if not outlined, location is unknown) _____

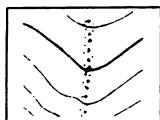


524. Rock awash (if outlined, location is known; without outline, location is unknown) _____



SECTION VIII—Symbolization of Certain Elements of Relief

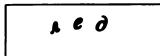
525. Terminal moraine _____



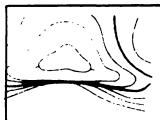
526. Stone, or gravel avalanche _____



527. Ice barriers and fossil ice _____



528. Steep slope (grassy) _____

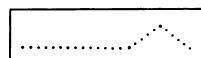


529. Old land creep _____

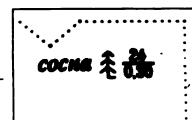


SECTION IX—Vegetation

530. Vegetation limit outline _____



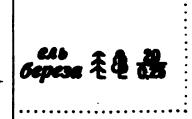
531. Coniferous forest _____



532. Deciduous forest _____



533. Mixed forest _____

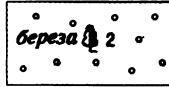


береза 4

534. Dwarf (low) forest _____



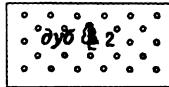
535. Scattered vegetation (second growth) _____



536. Stand of deciduous trees up to 4 meters high (average height indicated in meters) _____



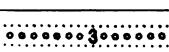
537. Coniferous nursery, or stand of young coniferous trees (average height indicated in meters) _____



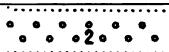
538. Deciduous nursery, or stand of young deciduous trees (average height indicated in meters) _____



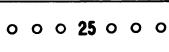
539. Young tree plantings, up to 20 meters wide (average height indicated in meters) _____



540. Young tree plantings, 20 to 50 meters wide, drawn to scale (average height indicated in meters) _____



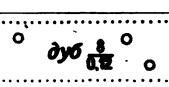
541. Young tree plantings, over 50 meters wide, drawn to scale (average height indicated in meters) _____



542. Mature forest, up to 20 meters wide (average height indicated in meters) _____



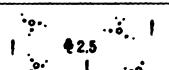
543. Mature forest, 20 to 50 meters wide, drawn to scale _____



544. Mature forest, over 50 meters wide, drawn to scale _____

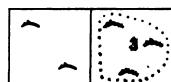


545. Scrub 1. Deciduous 2. Coniferous _____



546. Thorny scrub (solid growth) _____

547. Saksaul 1. Sparse growth 2. Solid thicket _____

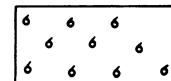


548. Brush 1. Sparse growth 2. Solid thicket _____

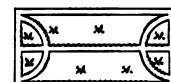


SECTION X—Cultivated lands, Gardens, Vineyards, Parks, and Lawns

549. Citrus orchard _____

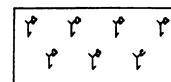


550. Lawns _____

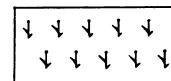


SECTION XI—Sections of Land under Technical Cultures

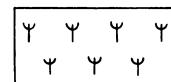
551. Essential oil plants _____



552. Tobacco _____



553. Cotton _____



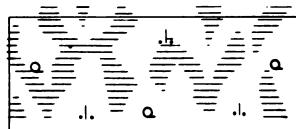
SECTION XII—Swamps, Sands, Solonchak(s), Takyr(s)

554. Wet ground with reed or cane (not drawn to scale) _____

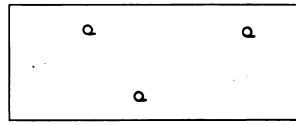


SECTION XIII—Examples of Combined Symbolization

555. Sparse forest in mossy swamp _____



556. Sparse forest on rocky terrain _____



557. Sparse forest and scrub on rocky slopes _____



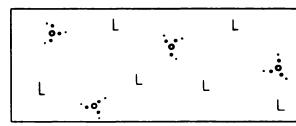
558. Sparse dwarf forest in passable grassy swamp with scrub _____



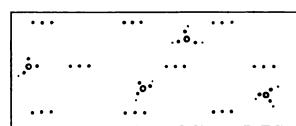
559. Sparse forest with solid scrub _____



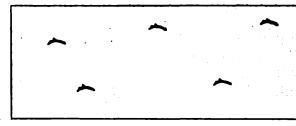
560. Scrub on cut-over area _____



561. Steppe, grass with scrub _____



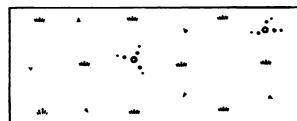
562. Sands and saksaul _____



563. Swampy ground with knolls and mossy vegetation _____



564. Lichens and scrub on rocky terrain _____



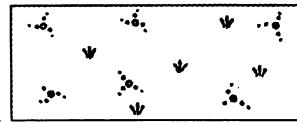
565. Mossy swamp strips and sparse dwarf forest _____



566. Swampy meadow and hummocks _____



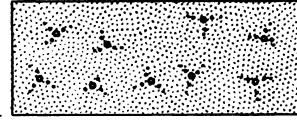
567. Scrub and reed _____



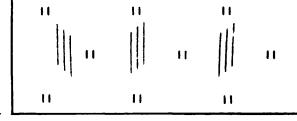
568. Thorny scrub on steppe _____



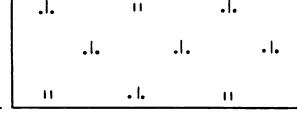
569. Solid scrub on sands _____



570. Meadow vegetation and solonchak in spots _____



571. Moss and grass vegetation on arid land _____



SECTION XIV—Type Specimens**POPULATED PLACES**

572. National capitals; cities with population over 500,000 _____

МОСКВА

573. Capitals of ASSR, centers of krays and oblast's (interkray) _____

РОСТОВ

574. Centers of autonomous oblast's, and intra-kary oblast's (i.e., oblast within a kray), centers of national okrugs. Cities, population ranging from 50,000 to 100,000 _____

МАЙКОП

575. Cities, population ranging from 20,000 to 50,000 _____

ПОДОЛЬСК

576. Cities, population ranging from 10,000 to 20,000 _____

ЛИПЕЦК

577. Cities, population under 10,000 _____

АНАПА

578. Urban settlements, workers settlements, resorts
a. Over 200 households _____

РЕУТОВО

b. 100 to 200 households _____

РЕУТОВО

c. Under 100 households _____

РЕУТОВО

579. Settlements within city limits, but located at a distance from the city and bearing their own proper names _____

ЛИОЗНО

САБУР

RURAL SETTLEMENTS

580. Rural settlements, over 200 households _____

Лабинская

581. Rural settlements, 100 to 200 households _____

Гончаровка

582. Rural settlements, 20 to 100 households _____

Юрьевка

583. Rural settlements, under 20 households _____ **Петровка**

584. Individual households (houses) _____ **Данково**

585. Descriptive names (usually abbreviations) of mills, factories, railroad stations, wells. Example: kupn—brickyard _____ **кирп.**

586. State farms, trading posts, lumber camps, etc. (over 100 households) _____ **сех. Красный**

587. Settlements, 20 to 100 households _____ **сех. Красный**

588. Settlements, under 20 households _____ **сех. Красный**

589. Designations of type of sovkhoz
(such as sheep farm) _____ **(овц.)**

590. Soviet rayon (abbreviation) _____ **РС**

591. Soviet village (abbreviation) _____ **СС**

592. Number of households _____ **23**

MISCELLANEOUS

593. Type of road pavement and material _____ **АБГ**

594. Numbers on kilometer posts, numbers of forest sections and border posts _____ **17**

595. Numbers indicating months when passes are open to traffic _____ **(V-X)**

596. Values for prominent elevations **243,8**

597. Numbers for spot elevations, depth
soundings, contour lines, etc. **186,0**

598. Width of highways and firebreaks **8(12)**

599. Ferry capacity, waterfall height, and
height of young forest and scrub **5** **5**

600. Velocity of the current, width of river
bed, depth of river **0,2**

601. Fractional terms: length and capacity
of bridges; depth of fords and con-
dition of the river bottom; height of
forest and the diameter of trees **$\frac{180}{12}$** **$\frac{100}{12}$**

602. Description of the conditions of river bottom **ТКПВ** **ТКПВ**

603. Names of streets, squares, etc. **УЛ. ПУШЕЧНАЯ УЛ. ФРУНЗЕ УЛ. ГОГОЛЯ**

HYDROGRAPHY

604. _____

ЧЕРНОЕ МОРЕ
ЧЕРНОЕ МОРЕ
ЧЕРНОЕ МОРЕ
ЧЕРНОЕ МОРЕ
ЧЕРНОЕ МОРЕ

605. _____ **зал.Глубокий** **зал.Глубокий** **зал.Глубокий**

	СЕВЕРНЫЙ ПРОЛИВ
606.	СЕВЕРНЫЙ ПРОЛИВ
	СЕВЕРНЫЙ ПРОЛИВ
	<i>Северный пролив</i>

607.	R. ВОЛГА	R. ВОЛГА	R. ВОЛГА
608.	<i>r. Вера</i>	<i>r. Вера</i>	<i>r. Вера</i>
609.	<i>r. Тура</i>	<i>r. Тура</i>	<i>r. Тура</i>
610.	О. ГУСИНЫЙ	О. ГУСИНЫЙ	О. ГУСИНЫЙ
	<i>о. Гусиный</i>	<i>о. Гусиный</i>	<i>о. Гусиный</i>

HYPSOGRAPHY

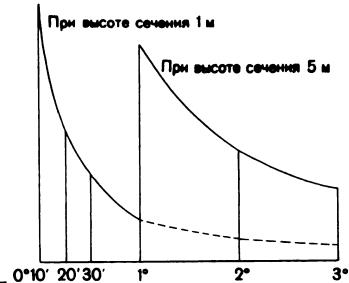
611.	ПЕСКИ
	ПЕСКИ
	ПЕСКИ
	<i>пески</i>
	<i>пески</i>

612. _____ { **ХРЕБЕТ** **ХРЕБЕТ** **ХРЕБЕТ**
 г.Шам г.Шам г.Шам г.Шам

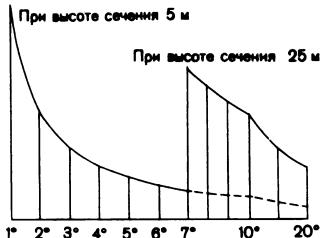
613. _____ { **ЗАПОВЕДНИК**
 ЗАПОВЕДНИК
 ЗАПОВЕДНИК

SECTION XV—Graphic Method of Determining Slope Gradients

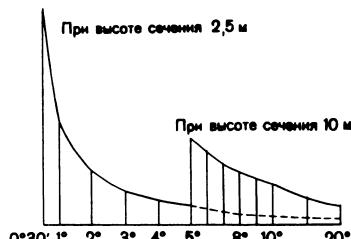
614. Contour interval 1 meter
 Contour interval 5 meters _____



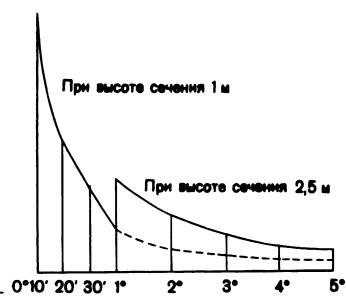
615. Contour interval 5 meters
 Contour interval 25 meters _____



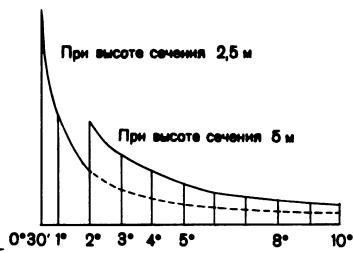
616. Contour interval 2.5 meters
 Contour interval 10 meters _____



617. Contour interval 1 meter
Contour interval 2.5 meters



618. Contour interval 2.5 meters
Contour interval 5 meters



CHAPTER 4

Symbolization for Maps at the Scale of 1:200,000

The following symbolization is known to apply to the 1:200,000 scale maps and it is believed that these also apply to the new 1:300,000 scale maps. Lack of clarity of source material does not permit inclusion here of some features found on 1:200,000 scale maps.

SECTION I—Populated Places

NOTE: Type sizes may not be consistent with those appearing on published maps

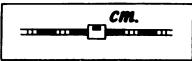
CITIES

619. National capitals **МОСКВА**
620. Capitals of Soviet Socialist Republics; cities with population over 500,000 **КИЕВ**
621. Capitals of Autonomous Soviet Socialist Republics; centers of krays and oblast's, cities with population ranging from 100,000 to 500,000 **ОРЕЛ**
622. Center of autonomous oblast's and intra-krai oblast's (i.e. oblast' within a krai); cities with population ranging from 50,000 to 100,000 **ХОРОГ**
623. Center of national or administrative okrugs; cities with population ranging from 20,000 to 50,000 **СЕРПУХОВ**
624. Rayon centers and towns with no administrative significance with population under 20,000 **ОНЕГА**
625. Urban settlements, workers settlements, and summer settlements **РЕУТОВО**

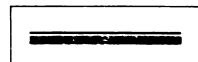
RURAL POPULATED PLACES

626. Small towns and important settlement junctions, rural type _____ Ивановка
627. Large villages and settlements with population over 2,000 (over 400 households) _____ Ивановка
628. Rural settlements with population over 500 (over 100 households) _____ Петровка
629. Rural settlements with population ranging from 100 to 500 (from 20 to 100 households) _____ Денисова
630. Rural settlements with population under 100 (under 20 households), and individual households _____ Елизавета
631. State farms, trading posts, lumber camps; in non-Soviet territory, estates, farms, farmsteads, castles, etc. _____ ...

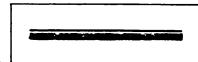
SECTION II—Roads and Railroads

632. Multiple-track railroad and junction or large station (station name is shown above symbol) _____ 
633. Single-track railroad and station (station name is shown above symbol) _____ 
634. Electrified double-track railroad _____ 
635. Electrified single-track railroad with siding or platform _____ 
636. Railroad, approximate alignment _____ 
637. Narrow-gauge railroad or street-car line _____ 

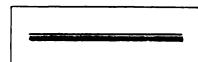
638. Super highway _____



639. Arterial highway _____



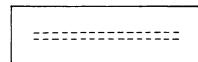
640. Highway _____



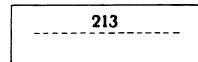
641. Improved dirt road, regularly maintained, permitting automobile traffic _____



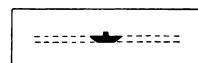
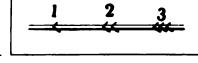
642. Caravan route _____



643. Steamship lane, with distance indicated in kilometers _____

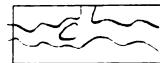


644. Railroad ferry _____

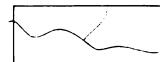
645. Road gradient 1. 4° - 7° 2. 7° - 13° 3. over 12° _____

SECTION III—Hydrography

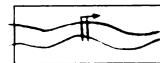
646. River and canal over 20 meters wide _____



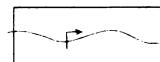
647. River and canal less than 20 meters wide _____



648. Head of navigation _____



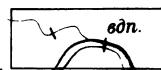
649. Logging starting point _____



650. Rain water pit _____



651. Waterfalls _____



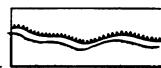
652. Rapids _____



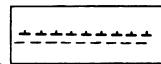
653. Bars _____



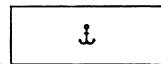
654. Embankments on the shore _____



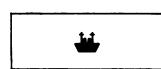
655. Canal under construction _____



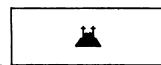
656. Landing _____



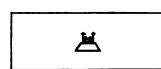
657. Seaport or harbor _____



658. Naval base _____



659. Military base _____



SECTION IV—Soils and Vegetation

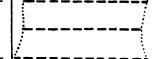
660. Coniferous forest _____



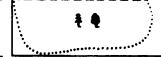
661. Deciduous forest _____



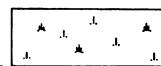
662. Firebreak _____



663. Mixed forest _____

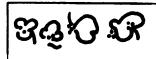


664. Moss and lichens _____



SECTION V—Other Map Features

665. Reef _____



666. Radio station _____



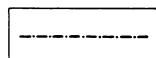
667. Gasoline pump or service station _____



668. Inn or service station _____



669. Primary administrative division boundary in non-Soviet territories (province, aymak, okrug, etc.) _____



CHAPTER 5

Symbolization for Maps at the Scale of 1:500,000

The following symbolization is known to apply to the 1:500,000 scale maps. Lack of clarity of source material does not permit inclusion here of some features found on 1:500,000 scale maps.

SECTION I—Populated Places

NOTE: Type sizes may not be consistent with those appearing on published maps

CITIES

670. National capitals **МОСКВА**
671. Capitals of Soviet Socialist Republics; cities with population over 500,000 **КИЕВ**
672. Capitals of Autonomous Soviet Socialist Republics; centers of krays and oblast's, cities with population ranging from 100,000 to 500,000 **ОРЕЛ**
673. Center of autonomous oblast's and intra-krai oblast's (i.e. oblast' within a krai); cities with population ranging from 50,000 to 100,000 **ХОРОГ**
674. Center of national or administrative okrugs; cities with population ranging from 20,000 to 50,000 **СЕРПУХОВ**
675. Rayon centers and towns with no administrative significance with population under 20,000 **ОНЕГА**
676. Urban settlements, workers settlements, and summer settlements **РЕЙТОВО**

677. Rural settlements that are rayon centers _____ **РАМСКОЕ**

678. Important settlement junctions, rural type _____ **Медведки**

679. Other large settlements and settlement junctions, rural _____ **Поддубное**

680. Small rural settlement _____ **Налимовка**

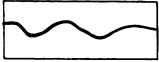
681. Large state farms, trading posts, lumber camps; in non-Soviet territory, estates, farms, farmsteads, castles, etc. _____ **с. Краснод.**

**SMALL POPULATED PLACES
INDICATED BY CIRCLES**

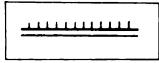
682. Small populated place with church _____ •

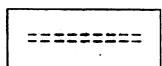
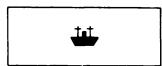
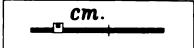
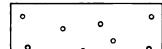
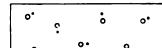
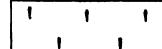
683. Small populated place without church _____ ○

SECTION II—Hydrography

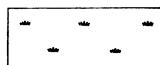
684. River less than 60 meters wide _____ 

685. River more than 60 meters wide _____ 

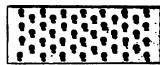
686. Navigable canal _____ 

687. Brick or adobe structure over well _____ 688. Marine channel _____ 689. Seaport or harbor _____ **SECTION III—Railroads**690. Multiple-track railroad and station _____ 691. Single-track railroad and siding or platform _____ 692. Railroad, approximate alignment _____ 693. Narrow-gauge railroad _____ **SECTION IV—Soils and Vegetation**694. Sparse forest _____ 695. Scrub thicket _____ 696. Birch grove _____ 697. Brush in high mountain and tundra regions _____ 

698. Moss and lichens _____



699. Citrus plantation _____

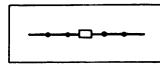


SECTION V—Other map features

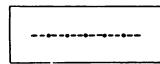
700. Oil field _____



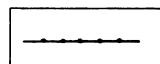
701. Overland oil conduit and pumping station _____



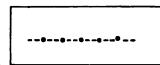
702. Underground oil conduit _____



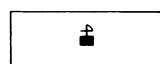
703. Overland water conduit _____



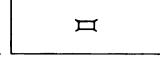
704. Underground water conduit _____



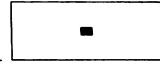
705. Polar station _____



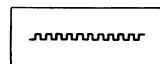
706. Fortification (ancient) _____



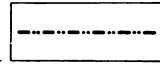
707. Trading post, educational and social
community center, fishery, summer
camp, sod hut, barn, etc. _____



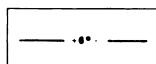
708. The Great Chinese Wall _____



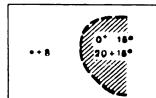
709. Primary administrative division bound-
ary in non-Soviet territory (province,
aymak, okrug, etc.) _____



710. Isogonic line (lines of equal magnetic declination) with value shown



711. Points and regions of magnetic anomalies



CHAPTER 6

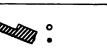
Symbolization for Maps at Scale of 1:1,000,000

The following symbolization is known to apply to the 1:1,000,000 scale maps. Lack of clarity of source material does not permit inclusion here of some features found on 1:1,000,000 scale maps.

SECTION I—Populated Places

SYMBOLIZATION

712. Urban populated place _____ 

713. Rural populated place _____ 

TYPE SPECIMENS FOR URBAN POPULATED PLACES

714. Population over 1,000,000 _____ **МОСКВА**

715. Population ranging from 250,000 to 1,000,000 _____ **ТУЛА**

СЕРПУХОВ
ПЕРОВО

716. Population ranging from 50,000 to 250,000 _____ **КАШИРА**

ЗАРАЙСК

717. Population ranging from 10,000 to 50,000 _____ **ПЛАВСК**

РЕУТОВО

718. Population under 10,000 _____

TYPE SPECIMENS FOR RURAL POPULATED PLACES

719. Population over 2,000 _____ **СЫЧЕВКА**
УНЕЧА

TOACMOOG
MUNICIPAL

720. Population under 2,000 _____

SECTION II—Political and Administrative Importance of Populated Places

WITHIN THE U.S.S.R.



721. Capital of USSR _____



722. Capital of Soviet Socialist Republic _____



723. Capital of ASSR, center of kray or oblast' _____



724. Center of autonomous oblast', intra-
kray oblast', or national okrug _____



725. Rayon center _____

IN NON-SOVIET TERRITORY



726. Capital in non-Soviet country _____

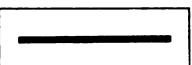
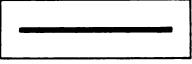
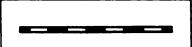
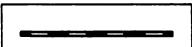
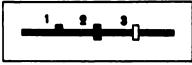
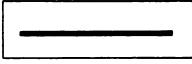
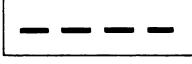
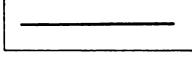


727. Center of possession in non-Soviet country _____

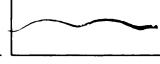
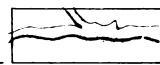
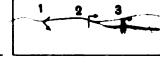
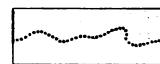


728. Center of first order administrative unit
in non-Soviet territory (province,
aymak, okrug, etc.) _____

SECTION III—Roads and Railroads

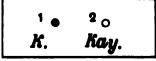
729. Arterial railroad _____ 
730. Other railroads _____ 
731. Arterial narrow-gauge railroad _____ 
732. Other narrow-gauge railroads _____ 
733. Station and siding 1. On one side of the track 2. Between the tracks 3. Location unknown _____ 
734. Highway _____ 
735. Highway, approximate alignment _____ 
736. Improved dirt road _____ 

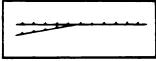
SECTION IV—HYDROGRAPHY

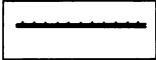
737. River less than 300 meters wide _____ 
738. River over 300 meters wide _____ 
739. 1. Head of regular navigation
2. Head of regular steamship lines
3. Point accessible to sea-going vessels _____ 
740. Shoreline, approximate alignment _____ 

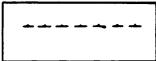
741. Tidal flat _____ 

742. Flood area _____ 

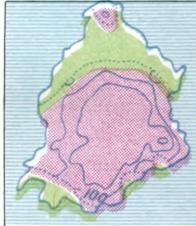
743. 1. Well
2. Dry and intermittent well _____ 

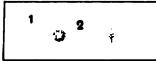
744. Navigable canal _____ 

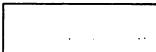
745. Canal for sea-going vessels _____ 

746. Navigable canal under construction _____ 

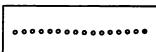
SECTION V—Other Map Features

747. Continental ice sheets _____ 

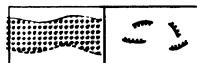
748. 1. Volcano 2. Mud geyser _____ 

749. Land creep _____ 

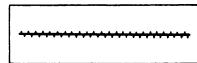
750. Zone of cultivated soil _____ 

751. Narrow strip of forest _____ 

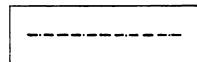
752. 1. Mangrove thicket 2. Coral reef _____



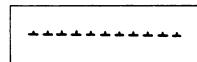
753. Dam _____



754. Boundary between colonies of the same state _____



755. Boundary of leased area _____



APPENDIX I

Russian Alphabet Transliteration according to U. S. Board of Geographic Names

RUSSIAN		ENGLISH	
SCRIPT	PRINT	SCRIPT	PRINT
Ӑ	Ӑ	Ӑ	a
Ӗ	Ӗ	Ӗ	b
Ӗ	Ӗ	Ӗ	v
Ӗ	Ӗ	Ӗ	g
Ӗ	Ӗ	Ӗ	d
Ӗ	Ӗ	Ӗ	e(ye)*
Ӗ	Ӗ	Ӗ	ë(yë)*
Ӝ	ӝ	ӝ	zh
Ӟ	ӟ	ӟ	z
Ӥ	Ӯ	Ӯ	i
Ӯ	Ӯ	Ӯ	y
Ӯ	Ӯ	Ӯ	k
Ӆ	Ӆ	Ӆ	l
Ӯ	Ӯ	Ӯ	m
Ӯ	Ӯ	Ӯ	n
Ӯ	Ӯ	Ӯ	o
Ӯ	Ӯ	Ӯ	p
Ӯ	Ӯ	Ӯ	r
Ӯ	Ӯ	Ӯ	s
Ӯ	Ӯ	Ӯ	t
Ӯ	Ӯ	Ӯ	u
Ӯ	Ӯ	Ӯ	f
Ӯ	Ӯ	Ӯ	kh
Ӯ	Ӯ	Ӯ	ts
Ӯ	Ӯ	Ӯ	ch
Ӯ	Ӯ	Ӯ	sh
Ӯ	Ӯ	Ӯ	shch
Ӯ	Ӯ	Ӯ	"
Ӯ	Ӯ	Ӯ	y,
Ӯ	Ӯ	Ӯ	,
Ӯ	Ӯ	Ӯ	e
Ӯ	Ӯ	Ӯ	yu
Ӯ	Ӯ	Ӯ	ya

*“ye” used initially, after vowels (Ӑ, Ӗ, Ӯ, Ӯ, Ӯ, Ӯ, Ӯ, Ӯ), and after Ӯ and Ӯ; elsewhere “e”.

APPENDIX II

Topographic abbreviations and their meanings

Автомобильный завод	авт.	automobile factory
Автономная область	АО	autonomous oblast'
Аймачное управление	Айм. упр.	aymak administration
Алебастровый	алб.	alabaster (adjective)
Амбулатория	амб.	dispensary
Анилиновый завод	анил.	aniline plant
Апатитовые разработки	апат.	apatite mines
Артезианский колодец	арт. к.	artesian well
Архипелаг	арх.	archipelago
Аркы	ар.	canal, ditch
Асbestosвый	асб.	asbestos (adjective)
Астрономическая обсерватория	астр. обсерв.	astronomic observatory
Астрономический	астр.	astronomical (adjective)
Астрономический пункт	астр.	astronomic position
Асфальтовый, Асфальт	А., асф.	asphalt (adjective)
Аэрордом	аэрод.	airfield
Аэропорт	аэрп.	airport
Балка	б., бал.	ravine
Банка	б-ка	bank
Барак	бар.	barrack
Бассейн	басс.	basin
Башня водонапорная	вод.	water pressure tower
Береза	бер.	birch
Бетонный	бет.	concrete (adjective)
Биологический	биол.	biological
Близкий	Ближн.	near (part of a proper name)
Блок-пост	бл. п.	block signal station
Болото	бол.	swamp
Больница	больн.	hospital
Большой	Бол., Б.	big (part of a name)
Братская могила	бр. мог.	common grave
Брод	бр.	ford
Брусчатка	Бр.	wooden block pavement
Бугор	буг.	knoll
Будка железнодорожная	Б.	section house
Будка трансформаторная	б. тр.	transformer station
Булыжник	Б	cobblestone
Бумаго-прядильная фабрика	бум.-пр.	cotton spinning mill
Бумажной промышленности	бум.	paper industry
Буровой	бур.	bore (adjective)
Бухта	бух.	bay

APPENDIX II (CONTINUED)

Бывший	быв.	former
Вагоностроительный завод	ваг.	railroad car factory
Великий	Вел.	great (part of a name)
Верхний	Верх.	upper (part of a name)
Ветеринарный	ветерин.	veterinary (adjective)
Вечнозеленые лиственные породы леса	вечнозел.	broadleaf evergreen forest
Винодельческий, винокуренный	вин.	viticultural; distillery (adjective)
Водокачка	вдкч.	water pump
Водомерный пост	вод. п.	water gauge station
Водонапорная башня	вод.	water pressure tower
Водопад	водп.	waterfall
Водопроводная станция	водопр.	waterworks station
Водохранилище	вдхр.	reservoir
Возвышенность	возвыш.	elevation
Вокзал	вкз.	RR station (with all facilities and services)
Воскобойный завод	воск.	wax refinery
Восточный	Вост.	eastern (part of a name)
Впадина	впад.	depression
Второй-ая,-ое,-ые	2-й, 2-я, 2-е	second (part of a name)
Вулкан	вулк.	volcano
Выселки	выс.	settlement
Вязкий	В	viscous; miry (adjective)
Гавань	гав.	harbor
Газольдер	газг.	natural gas tank
Газовый	газ.	natural gas (adjective)
Газопровод	газопр.	natural gas pipe
Галантрейный	гал.	haberdashery (adjective)
Галечниковый	галеч.	gravel, pebble (adjective)
Гараж	гар.	garage
Гвоздильный	гвозд.	nail (refers to nail factory)
Гидрологический	гидр.	hydrological
Гидроэлектростанция	ГЭС	hydro power station
малая гидроэлектростанция	гэс	small hydro power station
Главный	Гл.	main, chief
Глиняный, глина	глин	clay (adjective)
Глиноземный	глинов.	clayey earth
Глубина	гл.	depth
Гминное управление (на заграничной территории)	гмина	gmina administration office
Гмин. упр. (in non-Soviet, Poland territory)	гмин. упр.	(in non-Soviet, Poland territory)
Гончарный	гонч.	pottery (adjective)
Гора, горы	г.	mountain, mountains
Горный проход	г. пр.	mountain pass
Горько-соленая вода	г.-сол.	bitter-salt water (as applied to lakes, springs and wells)
Горячий	гор.	hot
Госпиталь	гсп.	hospital
Господский двор (на заграничной территории)	г. дв.	manor (in non-Soviet territory)

APPENDIX II (CONTINUED)

Гостиница	гост.	..... hotel
Гравий	Г	gravel
Грязевой	гряз.	..... mud (adjective)
Дальний	Дальн.	..... far (part of a name)
Дальний поселок	д. п.	..... remote settlement
Двор	дв.	..... yard, household, homestead, farm
Деревня	д.	..... village
Дерево-земляная огневая точка	ДЗОТ	wood and earth gun emplacement
Деревообрабатывающей промышленности	древ.	..... wood processing industry
Деревянный	дер.	..... wooden (adjective)
Детский дом	дет. д.	..... childrens home
Джутовый	джут.	..... hemp (adjective)
Долговременная огневая точка	ДОТ	pillbox permanent gun emplacement
Долина	дол.	..... valley
Дом лесника	лесн.	..... foresters cabin
Дом отдыха	Д.О.	..... rest home
Дробильный	дроб.	..... crushing (machine)
Дровяная пристань	древ. прист.	..... fire-wood pier
Дровяной	древ.	..... fire-wood (adjective)
Дрожжевой	дрож.	..... yeast (adjective)
Ерик	ер.	..... braided or split stream or channel
Железнокислый	жел. кисл.	..... ferrate
Железный, железистый	жел.	..... ferrous, ferriferous
Железобетонный	жел бет.	..... ferro-concrete (adjective)
Животноводческий	животн.	..... animal breeding
Завод	зав.	..... mill, factory
Займка	займ.	..... homestead
Залив	зал.	..... gulf
Западный	Зап.	..... western (part of a name)
Запань	зап.	..... log trestle
Заповедник	запов.	..... wild life sanctuary
Засыпанный	засып.	..... filled in
Затон	зат.	..... backwater, tidal basin
Зверосовхоз, звероводческий	звер.	..... wild animal breeding
Землянка, земляной	земл.	..... sod hut, earthen
Зеркальный	зерк.	..... mirror (adjective)
Зерновой	зерн.	..... grain (adjective)
Зерносушилка	суш.	..... grain drying barn
Зимник, зимовка, зимовье	зим.	..... winter camp or quarters
Знак	знак.	..... conventional sign
Золотой, -ая,-ое,-ые (прииски, россыпи, месторождения)	золот.	golden (placer, open pit (loose rocky grounds), ore deposit)
Золото-платиновые разработки	зол.-пл.	..... gold and platinum diggings
Игрушечный	игр.	..... toy (adjective)
Известковый	изв.	..... limestone (adjective)

APPENDIX II (CONTINUED)

Известковый завод	изв.	limestone processing plant
Изумрудные копи	изумр.	emerald mines
Имени	им.	named after
Имени (при собственном названии)	им.	named after
Институт	инст.	institute
Источник	ист.	spring
Казарма	каз.	barracks
Камвольный	камв.	wool-combing (adjective)
Каменистый	К	stony (refers to ford)
Каменноугольные копи и шахты	кам. уг.	coal mines and shafts
Каменный	кам.	made of stone, stone (adjective)
Камень	кам.	stone
Каменоломни	кам.	stone quarries
Канал	кан.	canal
Канатный	канат.	cable rope (adjective)
Каолиновый	каол.	kaolin (adjective)
Каракулеводческий	каракул.	karakul sheep breeding (adjective)
Карантин	карант.	quarantine
Каучуконосный	кауч.	rubber (adjective)
Керамический	керам.	ceramic (adjective)
Кинематографической промышленности	кин.	moving picture industry
Кирпичный завод	кирп.	brickyard
Кишлак	кишл.	village (Crimea), winter pasture (Caucasus)
Кладбище	кладб.	cemetary
Клинкер	Кл.	clinker
Ключ	кл.	spring
Кожевенный	кож.	leather (adjective)
Колодец, кудук	К.	well (without proper name)
Колодец, кудук	к.	well (with proper name)
Колония	кол.	colony
Колхоз	клх.	collective farm
Колхозный двор	клх.дв.	collective farm yard
Комбикормовый	комбик.	grain combine (adjective)
Комбинат	комб.	combine
Комендатура	кмд.	commandants headquarters
Кондитерский	конд.	pastry (adjective)
Коневодческий, конный	кон.	horse breeding, stud farm
Коноплеводческий	конопл.	hemp (adjective)
Консервный	конс.	canning (adjective)
Корчма	корч.	inn, roadhouse, tavern
Котловина	котл.	depression
Кочевые	коч.	nomad camp
Кошара	кош.	sheepfold
Краевой центр	кр. ц.	kray center
Красный	Красн., Кр.	red (part of proper name)
Крахмальный	крахм.	starch (adjective)

APPENDIX II (CONTINUED)

Крахмально-паточный	крахм.-пат.	starch and molasses (adjective)
Крепость	креп.	fortress
Крупяной	круп.	meal (adjective)
Кумирня	кум.	shrine
Курган, курганы	кург.	burial mound(s)
Курорт	кур.	resort
Курортный поселок	кур.'п.	resort type (urban) settlement
Лагуна	лаг.	lagoon
Лако-красочный завод	лакокр.	laquer-paint factory
Левый	Лев.	left (part of proper name)
Легкой промышленности	л. пром.	light industry
Ледник	ледн.	glacier
Лесничество	леснич.	forestry district
Лесник	лесн.	forester
Лесозащитная станция	ЛЗС	forest shelter belt station
Лесопильный завод	лесп.	sawmill
Лесоучасток	лес.уч.	forest section
Леспромхоз	лесхоз.	lumber camp
Летник, летовка	лет.	summer camp
Лечебница	леч.	hospital
Лиман	лим.	lagoon, shallow lake, estuary
Лиственница	листв.	larch
Льноводческий	льновод.	flax (adjective)
Льняной	льнян.	flaxen
Макаронный	мак.	macaroni (adjective)
Малый	Мал., М.	small, little (part of a proper name)
Марганцевые разработки	марганц.	manganese mining
Маргариновый	маргр.	margarine (adjective)
Маслобойный	масл.	oil and fat processing plant (adj.)
Маслодельный	маслод.	oil and fat processing plant (adj.)
Махорочный	махор.	tobacco roots (adjective)
Машино-тракторная станция	МТС	motor and tractor station
Машино-тракторные мастерские	МТМ	motor and tractor repair shops
Машиностроительной промышленности	маш.	machine tool (mill, factory)
Мебельный	меб.	furniture (adjective)
Медные разработки	медн.	copper mining
Медеплавильный завод	медиел.	copper smelter mill
Мельницы, мукомольни	мук.	flour mills
Местечко	м., мес.	market town
Местной промышленности	местн.	local industries
Металлургической промышленности	мет.	metallurgical industry
Метеорологическая станция	мет. ст.	meteorological station
Меховой	мех.	fur (adjective)
Минеральный	мин.	mineral
Минеральный источник	мин. ист.	mineral spring

APPENDIX II (CONTINUED)

Могила, могилы	мог.	tomb, tombs
Молочно-мясной	мол.-мясн.	dairy and meat (adjective)
Молочно-товарная ферма	МТФ	dairy products farm
Молочный	мол.	dairy (adjective)
Мостовая из колотого камня	К	broken stone pavement
Мраморный	мрам.	marble (adjective)
Музыкальных инструментов	муз. инстр.	musical instruments
Мукомольни, мельницы	мук.	flour mills
Мыза	мз.	farm
Мыловаренный	мыл.	soap making (adjective)
Мыс	м.	point, cape (part of proper name)
Мясной	мясн.	meat (adjective)
Наблюдательный	набл.	observation (adjective)
Национальный	нац.	national
Нефтяной, нефтеперерабатывающей промышленности	нефт.	oil, oil refining industry
Нижний	Ниж.	lower (part of proper name)
Низменность	низм.	lowland
Новый	Нов., Н.	new (part of proper name)
Оазис	оаз.	oasis
Областной совет	ОС	oblast' Soviet
Областной центр	обл. ц.	oblast' center
Область	обл.	oblast' (administrative division)
Обсерватория	обсерв.	observatory
Обувной	обув.	shoe (adjective)
Овощной	овощн.	vegetable (adjective)
Овраг	овр.	ravine
Овцеводческий	овц.	sheep breeding
Овцетоварная ферма	ОТФ	sheep products farm
Овчинно-шубный	овч.-шуб.	sheepskin jackets (adjective)
Огнеупорный	огнеуп.	fireproof
Озеро	оз.	lake
Округ	окр.	okrug (administrative division)
Октябрьский	Окт.	October (adjective)
Оранжерея	ор.	conservatory
Остров	о.	island
Острова	о-ва	islands
Отделение	отд.	division
Охотничья (изба)	охотн.	hunting cabin
Памятник	пам.	memorial monument
Паром	пар.	ferry
Парфюмерный	парф.	perfumery (adjective)
Пасека	пас.	apiary
Пасторат (на заграничной территории)	паст.	pastorate (in non-Soviet territory)
Паточный	пат.	molasses (adjective)
Пашня	П	plowed field

APPENDIX II (CONTINUED)

Первый, -ая, -ое, -ые	1-й, 1-я, 1-е	first (part of a name)
Перевал	пер.	mountain pass
Перевоз	пер.	crossing (river)
Перекат	перек.	bar (river)
Песок	пес.	sand
Песчаный	П	sandy
Пещера	пещ.	cave
Пивоваренный	пив.	brewery (adjective)
Пиротехнический завод	пиротехн.	fireworks factory
Писчебумажная фабрика	писч. бум.	paper mill
Пищевой промышленности	пищ.	food industry
Пищевые концентраты	пищ. конц.	food concentrates
Пластических масс	пластмасс	plastics
Платина	плат.	platinum (mining)
Платформа	пл., платф.	platform
Племенной	плем.	thoroughbred
Плодовиноградный	плодовин.	fruit and grape (adjective)
Плодовоовощной	плодовоовощ.	fruit and vegetable (adjective)
Плотина	плот.	dam
Поварня	пов.	community kitchen
Погост (на заграничной территории)	погост	village cemetery; village (North Russia only); administrative division
Пограничная застава	погр. заст.	border roadblock
Пограничная комендатура	погр. кмд.	border military headquarters
Погрузочно-разгрузочные площадки	погруз.	loading and unloading platforms
Подсобное хозяйство	подс. хоз.	auxiliary (truck) farming
Подстанция электрическая	подст. эл.	power sub-station
Пожарный	пож.	fire (adjective)
Полевой стан	пол. ст.	field station
Полиграфический	полигр.	polygraphic
Полумыза (на заграниц- ной территории)	племз.	small farm (in non-Soviet territory)
Полуостров	п-ов	peninsula
Полустанок	плест.	RR stop
Порог, пороги	пор.	rapids
Посад	пос.	settlement
Посадочная площадка	пос. пл.	landing strip
Поселковый совет	ПС	settlement Soviet
Поселок	п. пос.	settlement
Поселок городского типа	П.Г.Т.	urban settlement
Постоялый двор	пост. дв.	inn
Правый	Прав.	right (part of a name)
Предместье	предм.	suburb
Пригород	приг.	suburb
Пристань	прист.	landing
Провинция	пров.	province
Проволочный завод	провод.	wire mill
Пролив	прол., пр.	strait
Промысел	пром.	industrial establishment

APPENDIX II (CONTINUED)

Протока	прот.	braided or split stream or channel
Проход	прох.	pass
Пруд	пр.	pond
Прядильный	пряд.	spinning (adjective)
Птицеводческий	птиц.	poultry breeding (adjective)
Птицеферма	ПТФ	poultry farm
Пустыня	пуст.	desert
Путевой пост	пут. п.	section post
Рабочий поселок	Р-П	workers settlement
Радиостанция	радиост.	radio station
Развалины	разв.	ruins
Разрушенный	разр.	destroyed
Разъезд	раз.	siding
Район	р-н	rayon (administrative unit)
Районный Совет	РС	rayon council (Soviet)
Районный центр	Р-Ц	rayon (center)
Река	р.	river
Ремонтный	рем.	repair (adjective)
Рисовый	рис.	rice (adjective)
Родник	род.	spring
Рудник	руд.	mine
Рукав	рук.	braided or split stream or channel
Ручей	руч.	stream, brook
Рыбакский поселок	рыб. п.	fishing settlement
Рыбачья зимовка	рыб. зим.	winter fishing camp
Рыбный промысел	рыб. пр.	fishery, fishing industry
Рыбный промысел, рыбной промышленности	рыб.	fishery, fishing industry
Салотопенный завод	сал.	fat refinery
Санаторий	сан.	sanatorium
Сараи, сараи	сар.	barn, barns
Сардoba	сард.	summer quarters over a well
Сахарный	сах.	sugar (adjective)
Сахарный тростник	сах. трост.	sugar cane
Свекловичный	свекл.	sugar beet (adjective)
Свиноводческий	свин.	hog breeding (adjective)
Свиноварная ферма	СТФ	hog products farm
Святой	св.	saint
Северный	Сев.	northern
Северо-Восточный	СВ	northeastern
Северо-Западный	СЗ	northwestern
Селекционный	сел.	selection (adjective)
Сельский Совет	СС	village Soviet
Сельскохозяйственный	с.-х.	agricultural
Семеноводческий	семен.	seed cultivation (adjective)
Сернистый, серный	серн.	sulphate, sulphuric
Силикатный	силик.	silicate (adjective)
Силосная башня	сил.	silo tower
Скала, скалы	ск.	cliff, cliffs
Скипидарный	скип.	turpentine (adjective)

APPENDIX II (CONTINUED)

Склад, склады	скл.	storage(s)
Склады горючего	скл. гор.	fuel storage
Скотоводческий, скотный	скот.	cattle breeding
Сланцевые разработки	сланц.	schist pits
Слобода	сл.	settlement
Смолокуренный, смолокурня	смол.	tarworks
Советский	Сов.	Soviet (adjective)
Совхоз	свх.	state farm
Соевый	соев.	soy bean (adjective)
Соленая вода, солеварни, соледобыча, соляные копи	сол.	salt water, saltworks, salt mine
Сопка	соп.	conical hill, volcano
Сортировочная станция	сорт. ст.	RR classification yard
Спасательная станция	спас. ст.	lifesaving station
Спиртоводочный	спирт.	alcohol and vodka (adjective)
Спичечный	спич.	match (adjective)
Спортивный	спорт.	sport (adjective)
Средний	Сред., Ср.	middle, central (part of proper name)
Стадион	стад.	stadium
Сталелитейный завод	стал.	steel mill
Станица	ст-ца	village
Становище, стойбище	стан. ст-ще	camp
Станция	ст.	station
Старый	Стар., Ст.	old (part of proper name)
Стекольный	стекл.	glass (adjective)
Строительных материалов	стр. м.	building materials
Строящийся	стр.	under construction (adjective)
Суконный	сук.	woolen
Сухой	сух.	dry
Сушильный	суш.	drying
Табаководческий, табачный	таб.	tobacco growing (adjective)
Тальковые разработки	тальк.	talcum diggings
Таможня	там.	customhouse
Твердый	Т	firm, hard
Текстильный	текст.	textile
Теплоэлектроцентраль	ТЭЦ	thermo-electric power station
Террикон	тер.	tailings piles
Техникум	техн.	technical school
Ткацкая фабрика	ткацк.	weaving mill
Товарная станция	тov. ст.	freight station
Толевый	тол.	tar paper (roof) -(adjective)
Торфяные разработки	торф.	peat cuttings
Тракторный завод	тракт.	tractor factory
Третий, -тья, -тье	3-й, 3-я, 3-е	third (part of proper name)
Трикотажный	трик.	knitting (tricot) -(adjective)
Туннель	тун.	tunnel
Углекислый источник	мин.	mineral (carbonate) spring
Угольной промышленности	уг.	coal industry

APPENDIX II (CONTINUED)

Уездный центр	у. Ц. ....	..... uyezd center
Укрепление	укр. ....	..... fortification
Уксусный завод	укс. ....	..... vinegar distillery
Улус	ул. ....	..... ulus, Tatar name for village and/or administrative unit
Урочище	ур. ....	..... tract, area
Участок	уч. ....	..... section, subdivision
Ущелье	ущ. ....	..... gorge
Фабрика	фабр. ....	..... factory, mill
Фактория	факт. ....	..... trading post
Фанерный	фан. ....	..... veneer
Фанза	ф. ....	..... Korean or Chinese farm
Фарфоровый	фарф. ....	..... porcelain
Фарфорово-фаянсовый	фарф.-фаянс. ....	..... porcelain-faience
Фирновое поле	фирн. ....	..... firn field
Фольварк	фл. ....	..... farmstead
Фонтан	фт. ....	..... spring, fountain
Форт	ф. ....	..... fort
Фосфоритный	фосф. ....	..... phosphorite
Фруктово-ягодные сады	фр.-яг. ....	..... fruit and berry orchards
Химико-фармацевтический	хим.-фарм. ....	..... chemical-pharmaceutical
Химический	хим. ....	..... chemical
Химической промышленности	хим. ....	..... chemical industry
Хлебный, хлебозавод	хлебн. ....	..... bread (bakery)
Хлопковый, хлопководческий	хлопк. ....	..... cotton, cotton growing
Хлопчатобумажный	хлоп. бум. ....	..... cotton (adjective)
Хозяйство	хоз. ....	..... economy, a unit of management
Холодильник	холод. ....	..... deep-freeze
Хребет	хр. ....	..... range
Хромовые разработки	хром. ....	..... chrome mining
Хрустальный	хруст. ....	..... crystal
Хутор	хут., х. ....	..... farm
Центральный	центр. ....	..... central
Цветной металлургии	цвет. ....	..... non-ferrous metallurgy
Цементный	цем. ....	..... cement (adjective)
Цементобетон	Ц. ....	..... cement - concrete
Цинковый завод	цинк. ....	..... galvanized iron works
Цистерна	цист. ....	..... tank
Цитрусовый	цитрус. ....	..... citrus (adjective)
Чайный	чайн. ....	..... tea (adjective)
Черепичный	черепич.	..... tile (roof)
Черной металлургии	ч. мет. ....	..... ferrous metallurgy
Чугунолитейный завод	чуг. ....	..... cast iron foundry
Шахта	шах. ....	..... shaft
Швейный	швейн. ....	..... sewing
Шелководческий, шелкомотальный, шелковый	шелк. ....	..... silkworm industry, silk spinning, silk

APPENDIX II (CONTINUED)

Шивера	шив.	.....	rapids
Школа	шк.	.....	school
Шлак	Шл	.....	slag
Шлако-бетонный	шл.-бет.	.....	slag concrete
Шлюз	шл.	.....	sluice, lock
Шпагатный	шпаг.	.....	manila cord
Штольня	шт.	.....	gallery
Щебень	Щ	.....	crushed (blue) stone
Щелочный источник	щел.	.....	alkali spring
Щеточный	щет.	.....	brush (adjective)
Экстрактный	экстр.	.....	extract (adjective)
Элеватор	элев.	.....	elevator
Электропромышленности	эл.	.....	electric industry
Электростанция	эл. ст.	.....	power station
Электротехнический завод	эл.-техн.	.....	electrical appliances plant
Эфиромасличный	эф. масл.	.....	essential oils
Юго-Восточный	ЮВ	.....	southeastern
Юго-Западный	ЮЗ	.....	southwestern
Южный	Южн.	.....	southern
Юрта	юр.	.....	tent (skin, felt, bark)
Ягодный	яг.	.....	berry (adjective)
Яхтклуб	яхткл.	.....	yacht club

APPENDIX III

Translations of selected map terms

Генеральный Штаб Вооруженных Сил Союза ССР	General Staff of the Armed Forces of Union SSR
Генеральный Штаб, Красная Армия	General Staff, Red Army
Военно-Топографическое Управление	Military-Topographic Administration
Главное Управление Геодезии и Картографии	Chief Administration of Geodesy and Cartography
Аэро-Геодезические Предприятия	Aero-Geodetic Enterprises
Первое издание	first edition
Второе издание	second edition
Третье издание	third edition
Временное издание	provisional edition
Учебная карта	training map
Для служебного пользования	for official use only
Система координат (год)	system of coordinates (date)
Издано в (году)	published in (date)
Сдано в печать	given for publication
Допущено к печати	authorized for printing
Отпечатано в	printed in
Составлено в (году)	compiled in (date)
Карта составлена схематично	map compiled diagrammatically
Составлено	compiled by
Карта получена стереофотограмметическим методом	map compiled by stereo-photogrammetric method
Карта издана с учетом всех материалов на	map compiled from all the sources available as of (date)
Карта получена путем увеличения (масштаб) карты	map represents an enlargement of (scale) sheet
Исправлено	revised by
Исправлено в (году)	revised in (date)
Маршрутная съемка	route survey (by)
Инструментальная съемка	instrumental survey
Фототеодолитная съемка	photo-theodolite survey by
Межевые съемки, разных масштабов	cadastral surveys, various scales
Крупно масштабные съемки	large scale surveys by
(Масштаб) аэросъемка в (году)	(scale) aerial survey of (date)
Масштаб 1:100,000, рекогносцировка в (году)	scale 1:100,000 reconnaissance of (date)

APPENDIX III (CONTINUED)

Мензульная топографическая съемка	planetable topo survey
Горизонтальная съемка	planimetric survey
Полуинструментальная съемка	semi-instrumental survey
Маршрутно- инструментальная съемка	instrument route survey
Рекогносировка в (году)	reconnaissance of (date)
Частичная рекогносировка	(date) partial reconnaissance
Дополнено и исправлено по новейшим материалам в (году)	additions and corrections from the latest sources made in (date)
Дорожная сеть дополнена в (году)	additions to road network made in (date)
Частично (в году) исправлена по 1:50,000, съемка (в году)	partial (date) corrections made from 1:50,000, survey of (date)
Исправлена, дополнена и вычерчена	corrected, supplemented and drafted by
Карта перечерчена с 1:100,000, съемка (в году)	map redrafted from 1:100,000 survey of (date)
Многогранная проекция Мюффлинга	Mueffling polyhedral projection
Видоизмененная поликоническая проекция	modified polyconic projection
Равноотстоящая коническая проекция	equal-distant conical projection
Административные границы показаны приблизительно	administrative boundaries drawn diagrammatically
Административные границы показаны по состоянию на (год)	administrative boundaries shown as of (date)

By Order of *Wilber M. Brucker*, Secretary of the Army:

MAXWELL D. TAYLOR,
General, United States Army,
Chief of Staff.

Official:

HERBERT M. JONES,
Major General, United States Army,
The Adjutant General.

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Rgn HQ US ARAD- COM (5)	Engr Bn (1)	ARMA (USSR) (5)
	MI Bn (2)	Mil Dist (1)
	Ft & Cps (2)	Sectors, USA Corps
	USAINTC (5)	(Res) (1)

NG: None.

USAR: None.

For explanation of abbreviations used, see AR 320-50.

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