

ЭКОЛОГИЧЕСКОЕ КАРТОГРАФИРОВАНИЕ СИБИРИ

Ответственный редактор
академик РАН *В.В. Воробьев*



НОВОСИБИРСК
"НАУКА"
СИБИРСКАЯ ИЗДАТЕЛЬСКАЯ ФИРМА РАН
1996

CONTENTS

INTRODUCTION (<i>V.V. Vorobiev, A.R. Batuev, A.V. Belov</i>)	5
Chapter 1. GENERAL ITEMS OF THEORY AND METHODOLOGY	9
1.1. State and perspectives of ecological mapping (<i>V.V. Vorobiev, A.R. Batuev, A.V. Belov</i>)	—
1.2. Creation of integrative and operative cartographic maintenance system for Siberia ecological problems solving (<i>V.V. Vorobiev, A.R. Batuev, A.V. Belov</i>)	13
1.3. General principles of geoecological mapping (<i>V.S. Mikheev, V.V. Kozin, A.I. Schekhoutsou</i>)	20
1.3.1. Initial propositions	—
1.3.2. Geoecological mapping: substance, purpose and structure	25
1.3.3. Ecological maps and their contents	30
1.3.3.1. Principal approaches	—
1.3.3.2. Integrative base working out	33
1.3.3.3. Geoecological interpretations	43
1.4. Ecological-geographical maps classification (<i>L.M. Korytnyi</i>)	58
1.5. Ecological mapping studying sufficiency in Siberia (<i>N.N. Komedtchikov, A.A. Lyutyi</i>) [*]	62
Chapter 2. ECOLOGICAL MAPPING OF MAJOR NATURAL ENVIRONMENTS	72
2.1. Geological environment mapping (<i>N.I. Demyanovich, V.I. Pisarsky, A.N. Fedorov</i>)	—
2.2. Cryoecological environment mapping (<i>M.M. Schats</i>)	85
2.3. Frost landscapes stability mapping (<i>A.N. Fedorov</i>)	88
2.4. Water-ecological mapping of Siberia (<i>A.N. Antipov, V.N. Fedorov</i>)	91
2.5. Ecological-geographical peculiarities of water usage and water economy mapping (<i>L.A. Bezrukou</i>)	105
2.6. Maps of forestry-ecological complex (<i>G.I. Malykh, I.L. Tolmacheva</i>)	115
Chapter 3. SPECIAL ECOLOGICAL MAPPING	121
3.1. Ecological-geochemical mapping (<i>P.V. Koval, G.A. Belogolova, I.S. Lomonosov, V.D. Pampura</i>)	—
3.2. Phyto-ecological mapping (<i>E.I. Lapshina, B.B. Namzalov, A.Yu. Korolyuk</i>)	136
3.3. Recreation mapping (<i>S.P. Buslov, A.A. Atutov, A.K. Tulokhonov, A.B. Imetkhenov, T.V. Khantashkeeva</i>)	149
3.3.1. Methodology of resource recreation maps composing (e.g. basin of Lake Baikal)	150
3.3.2. Techniques of "Assessment of territory types for active recreation" map composing	154
3.3.3. Experience of recreation capacity map composing	159
3.3.4. Recreation regionalization maps composing	161
3.4. Special protected territories mapping (<i>A.B. Imetkhenov</i>)	164
3.5. Middle-scale maps of plant combustible materials (e.g. basin of Lake Baikal and Angara region) (<i>A.V. Volokitina</i>)	170

Chapter 4. INTEGRAL ECOLOGICAL MAPPING	180
4.1. Anthropoecological mapping (<i>I.V. Koneva, Yu. G. Pokatilov, S.V. Ryashchenko</i>)	—
4.1.1. Nosoecological maps	182
4.1.2. Biogeochemical mapping (principles and methods)	186
4.1.3. Assessment of natural and natural-anthropogenic geosystems under medical-geographical mapping	191
4.2. Cartographic maintenance of land cadastre (<i>O.I. Bazhenova, I.A. Gumbina, L.L. Kalep, T.I. Konovalova, E.M. Lyubtsova, G.I. Malykh, V.S. Mikheev, V.M. Plyusnin, N.I. Chernyshov</i>)	197
4.2.1. Inventory landscape-ecological map	200
4.2.2. Map of relief morphogenetic types	209
4.2.3. Erosion processes	215
4.2.4. Forest lands assessment	221
4.2.5. Agricultural lands assessment	228
Chapter 5. COMPLEX ECOLOGICAL MAPPING	232
5.1. Ecological-geographical map of Russia (<i>A.R. Batuev, A.V. Belov, O.A. Ecteev, L.F. Yanuareva, A.G. Isachenko</i>)	—
5.1.1. Introduction	—
5.1.2. Main principles of Russia ecological-geographical map composing	233
5.1.3. Methodology and principal stages of map working out	235
5.2. Ecological atlas of Irkutsk region (<i>V.V. Vorobiev, A.R. Batuev, A.V. Belov, B.A. Bogoyavlensky, Yu. S. Nikulnikov</i>)	239
5.2.1. General principles of regional ecological atlas working out	—
5.2.2. Structure and atlas contents	240
5.2.3. Methodology and principal stages of atlas working out	245
5.3. Series of Irkutsk town and its suburb zone ecological-geographical maps (<i>A.R. Batuev, A.N. Antipov</i>)	247
5.3.1. Introduction	—
5.3.2. Approaches and composing principles of ecological-geographical maps series of Irkutsk town and its suburb zone	248
5.3.3. Scientific substance of Irkutsk town and its suburb zone ecological-geographical maps series	250
CONCLUSION (<i>V.V. Vorobiev, A.R. Batuev</i>)	257
REFERENCES	265