CONTENTS

PREFACE

1. INTRODUCTION 7
   1.1 Principles of geospatial support 8
   1.2 Geographic components at strategic command level 9
      1.2.1 NATO 10
      1.2.2 European Union 11
      1.2.3 Czech Republic 13
      1.2.4 Other organizations 14
   1.3 Geographic products produced at strategic command level 15
      1.3.1 Studying user needs 15
      1.3.2 Functions of geographic products 16
      1.3.3 Classification of geographic products 17

2. SPECIFICS OF PRODUCTION AND USE OF THEMATIC MAPS AT STRATEGIC COMMAND LEVEL 19
   2.1 Great responsibility of mapmaker 19
   2.2 Absence of production team 20
   2.3 Unknown recipients of maps 20
   2.4 Incomplete or incorrect orders 21
   2.5 Political correctness of maps 21
   2.6 Delivery time requirements 24
   2.7 Employing DTP tools 24
   2.8 Utilizing someone else's products 25
   2.9 Security classification of maps 25
   2.10 Releasability of maps 26
   2.11 Variety of map formats, forms and types 27
   2.12 Production originality 27
   2.13 Other specifics 28

3. THEMATIC MAPS PRODUCED AT STRATEGIC COMMAND LEVEL 29
   3.1 Classification of thematic maps according to utilization purpose 29
   3.2 Structure and content of thematic maps 32

4. REQUIREMENTS FOR THEMATIC MAPS AT STRATEGIC COMMAND LEVEL 34
   4.1 Requirements for map scale and size 34
   4.2 Standardization requirements 35
   4.3 Qualitative requirements 36

5. DECISION-MAKING PROCESS IN THEMATIC MAP PRODUCTION 39
   5.1 Understanding of requirement 39
   5.2 Project preparation 41

6. PRINCIPLES OF THEMATIC MAP PRODUCTION 43
6.1 Cartographic communication process 44
6.2 General principles of thematic map production 45
6.3 Map projection principles 46
6.4 Colour principles 50
6.5 Map legend principles 52
6.6 Lettering principles 53
6.7 Map content principles 56
6.8 Map layout principles 58
6.9 Expert system tools supporting thematic map production 58

7. TECHNOLOGY OF THEMATIC MAP PRODUCTION 61
7.1 General scheme 61
7.2 Scheme specific for strategic command level 64

8. DATA SOURCES FOR THEMATIC MAP PRODUCTION 69
8.1 Data sources for creating topographic background 69
8.2 Data sources for creating thematic content 73
8.3 Assessing data applicability 76
8.3.1 Current approaches to assessing data applicability 76
8.3.2 Overview of web data sources and description of available data 78
8.3.3 Analysis of applicability of web data sources 81
8.4 Examples of thematic maps 85

9. PROVIDING CONDITIONS OF PRODUCTION OF THEMATIC MAPS AT STRATEGIC COMMAND LEVEL 95
9.1 Organizational conditions 95
9.2 Technical conditions 96
9.3 Economic conditions 97
9.4 Legal conditions 97

SUMMARY 98

INDEX 101

REFERENCES 104

ABBREVIATIONS AND ACRONYMS 111