



## East View Cartographic

### New Developments in Access to Russian Military Mapping

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1

## East View Cartographic

- ✦ affiliate of East View Publications (est. 1989)
- ✦ EVP is by far the largest supplier of vernacular-language open-source information from Russia/CIS to US Government
- ✦ entire company (140 people) oriented toward supplying open-source information from Russia/CIS
  - produced by Russians
  - acquired by Russians
- ✦ specialty is formerly classified information
- ✦ cartographic information since 1993



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## Russian Military Cartography

### *Major topographic map series*

- ✦ city plans (1:10,000 and 1:25,000 scales)
- ✦ 1:50,000 scale topographic
- ✦ 1:100,000 scale topographic
- ✦ 1:200,000 scale topographic



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## Russian Military City Plans

- ✦ systematic access since Oct 1996
- ✦ ca. 1700 cities available (excluding FSU)
- ✦ digital vector format only
- ✦ about 20 cities currently ready



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## Military City Plans

- ♦ scales from 1:10,000 to 1:25,000
- ♦ majority of vintages from 1980-1996
- ♦ new production and revisions continue
- ♦ all existing plans may be updated on ad hoc basis



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## Russian Military City Plans

### *Worldwide summary*

continents/countries	# cities	# sheets
Africa	77	137
China, Taiwan, Mongolia	229	322
Japan	95	179
Korean Peninsula	22	28
Middle East	94	145
Southeast Asia	87	142
South America	30	50
North America, excl. USA	46	59
USA	129	257
Europe, excl. Germ., UK, France, Poland	333	536
Germany	141	265
UK	92	172
France	77	144
Poland	84	86
Baltic states	13	46
Russia and CIS countries	not available	not available
<b>totals</b>	<b>1549</b>	<b>2568</b>



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## Military City Plans

### Why only digital availability?

- ♦ Original paper plans still classified
- ♦ Some exceptions
  - non-Russian sources
  - Russian raster sources
  - Russian paper sources
- ♦ Apparent belief that digital-only availability allows selective release of information
  - BUT, plans acquired so far appear to be complete



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## Russian Military City Plans

### *major issues*

- validation and accuracy
- attribute data
- uniqueness
- vintage
- format
- delivery time
- price
- will the door close?



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## Military City Plans

### *file format issues*

- ♦ currently, default format is Map/Info internal format (TAB)
- ♦ in theory, conversion to most any other file format is possible
- ♦ EVC has supplied in MIF and DXF so far
- ♦ no experience yet with VPF
- ♦ **a very time-consuming problem**



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## Military City Plans

### *Text elements*

- ♦ Three types
  - urban military geography narrative
  - list of militarily important objects
  - comprehensive street index
- ♦ Much unique material
- ♦ Must be translated
- ♦ Link to vector map?



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## Military City Plans

### *Geographic names issues*

- ♦ EVC orders all names in Cyrillic alphabet
- ♦ VTU has strict transliteration regimes
- ♦ Machine transliteration exists and can be refined



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## Military City Plans

### *East View Cartographic products/services*

- ♦ Original-edition city plans, all layers
- ♦ Updated city plans, all layers
- ♦ DTMs/DEMs
- ♦ Text elements (Russian and English)
- ♦ Paper output: color plots
- ♦ Format conversion
- ♦ Original paper or raster prints where available
- ♦ Collection of attribute information



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# Military City Plans

## *Pricing questions*

- ♦ Production cost
  - originally, tied to number of sheets
  - now, tied to area (sq. km) of city
- ♦ Site licenses



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# The Russian Cartographic Behemoth

- ♦ Topographic production: Civilian vs. Military
  - civilian: 18 regional enterprises under FSGK
    - ♦ Russian Federation territory only (but formerly entire USSR)
    - ♦ 525,000 sheets (scales 10k-1m), 12-year revision cycle
    - ♦ another 200,000+ sheets with 1:5k and 1:2k scale plans
  - military: Military Topographic Directorate (VTU)
    - ♦ territorial responsibility:
      - military editions of RF territory sheets
      - production/military editions of CIS territory sheets
      - production of all foreign territory sheets
    - ♦ 60,000 sheets (not including FSU), revision cycle varies from 6 years to 40+



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## Russian Military Topographic Maps *1:200,000 scale*

- ♦ near-worldwide coverage
  - **Eastern hemisphere exceptions:** Australia, NZ, Micronesia, Kalimantan, Papua-New Guinea, small islands of Indonesia
  - **Western hemisphere exceptions:** northern Canada, central Greenland, 2/3 of South America
- ♦ 16,000 (non-FSU) + 4,800 (FSU) sheets total
- ♦ ca. 8,000 sheets include military geographic assessment on reverse (EH sheets only, minus most of Africa, India, Arabian peninsula and northern Siberia)
- ♦ all available commercially except RF territory

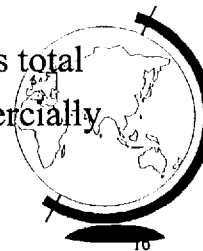


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## Russian Military Topographic Maps *1:100,000 scale*

- ♦ extensive coverage, including
  - entire FSU, Europe and Japan
  - entire Asian continent (except Tibet, southern India, central Arabian Peninsula)
  - most of northern Africa from Morocco to Somalia
  - 2/3 of USA, including entire coastal regions and all military bases and missile fields
  - Cuba
- ♦ 23,000 (non-FSU) + 21,000 (FSU) sheets total
- ♦ all but RF territory now available commercially



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## Russian Military Topographic Maps

### *1:50,000 scale*

- ♦ still extensive coverage, including
  - entire FSU
  - entire Europe (except northern UK, Ireland)
  - entire Korean Peninsula
  - 1/4 of PRC (primarily northwestern)
  - extensive Middle East, including most of Turkey, all of Israel/Palestine/Lebanon and surrounding region, northern Iran, entire Afghanistan
  - Cuba
- ♦ 23,000 (non-FSU) + 70,000 (FSU) sheets total
- ♦ commercial paper access problematic
- ♦ digital access OK except for RF



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## Digital Vector Topographic Maps

### *Russian Federation Territory*

- ♦ 1:1,000,000 scale
  - 176 sheets (complete RF coverage)
  - ca. 20 layers/sheet
  - completed in late 1995
  - all sheets commercially available
- ♦ 1:200,000 scale
  - 3571 sheets (complete RF coverage)
  - ca. 50 layers/sheet
  - completed in 1996
  - all sheets commercially available



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## Geographic Names Issues

- ♦ complete database exists based on  
1:200,000 scale RF topo maps (3571 sheets)
- ♦ place names (estimated over 500,000)
- ♦ hydrographic names (est. over 100,000)
- ♦ transportation names (est. over 50,000)
- ♦ plus, much additional attribute data



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OSS '99 PROCEEDINGS Global Information Forum Information Superiority through the  
Collection, Sharing and Analysis of Relevant Information: A New Approach to  
Operationally-Driven All-Source Information Management Washington, D.C. 24-26  
May 1999 - Link Page

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