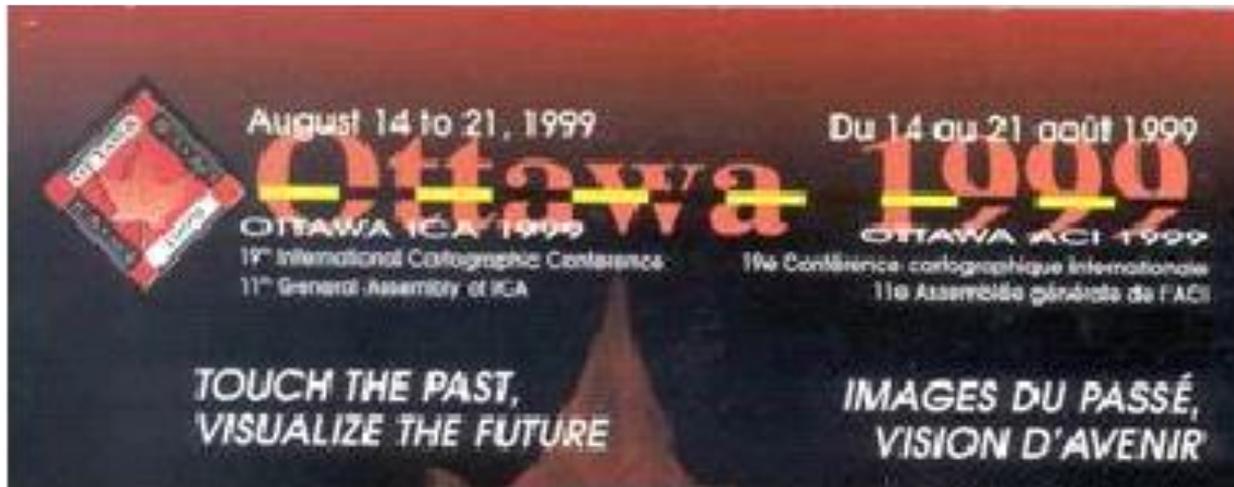


A. WOLODTSCHENKO

PHOTOATLAS

20th Anniversary of the Creation of the ICA Commission on Theoretical Cartography



**Dresden
2019**

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1. Preamble

The photoatlas “20th Anniversary of the Creation of the ICA Commission on Theoretical Cartography” illustrates some of the facts and events relating to theoretical cartography in Europe and the selected activities of the Commission on Theoretical Cartography of the International Cartographic Association (ICA) in the period 1999 - 2011.

The photoatlas fragmentarily reflects the interesting period of formation, development and attenuation (and unfortunately, a sunset) of theoretical cartography in the ICA (in the 1980s - 2010s).

This event atlas continues to form a thematic series of illustrated atlases about the ICA. These include:

- 10 Years of the ICA Commission on Theoretical Cartography (1999-2009)
- ICA Presidents 1961-2011
- Selected interviews after the ICC 2017 in Washington
- Project „Altai 2008/2009 - 2019“.

These event atlases are part of the project, which is developing in the context of the new semiotic-technological trends “Iconic Atlassing”. Such atlases portray or document diverse events, facts and data. More than 100 thematic atlases are available from: <https://atlas-semiotics.jimdo.com/bild-atlantothek/>

1. Preamble

The author of the atlas as a witness and an active participant in the theoretical movement in the ICA in the 1990s, 2000s, and early 2010s gives his vision of this process in a retrospective photoatlas form.

The appearance of the Commission on Theoretical Cartography in the late 1990s was a merit of dr. T. Kanakubo, prof. T. Morita and the Japan Cartographic Association. T. Kanakubo prepared a solid ground on the basis of the theory-related Working Group (1991-1995) and Commission (1995-1999) for the creation of a new theoretical Commission in 1999. But this formation was not easy.

In Kanakubo list of candidates for chairman of new Commission, the author was the fifth. A. Louty, J. Pravda, H. Schlichtmann and Ch. Hussy refused to chairman post. The further process was related to Germany: the Institute for Cartography (IfC), where the author worked as a research assistant from 1979 to 2014 and the German Cartographic Association (GCA). The leadership of the IfC (prof. Buchroithner and prof. Koch) did not support the author's candidacy. But T.Kanakubo decided positively on personnel issues with the leadership of the ICA (President, dr. B. Rystedt and Secretary General prof. F.Ormeling) and the GCA.

The Commission on Theoretical Cartography (1999-2011) left a significant mark in the ICA and this photoatlas documents it in a fragmentary form.

The author thanks everyone who supported this project and its implementation.

2. Cartography as science and dispute of the theoretical conceptions

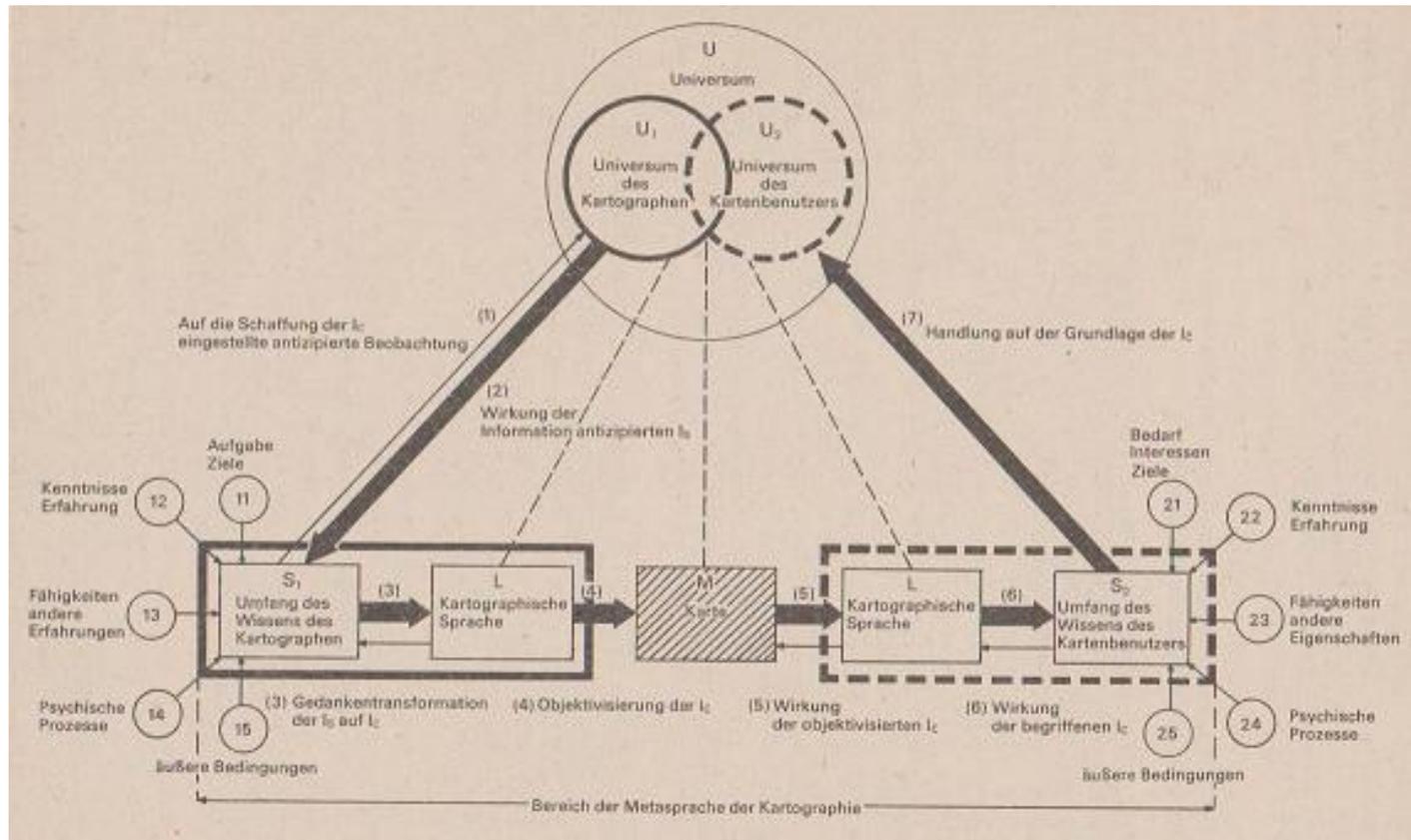
In the 1970s and 1980s, when the cartography began digitalization, the cartography attempted to establish itself as a science. In reality, this was done by cartographers institutionally in universities and other organizations, as well as through scientific publications (cf Salischev 1982, Ogrissek 1987, etc.).

The collapse of the USSR and the social systems in the 1990s had a negative impact on cartography as a science and education in many countries. The cartographic education was devalued, because two-level system of education (bachelors and masters) was forcibly introduced and diploma cartographers were ignored.

The cartographic institutions began to get involved in legionnaire cartographers (including foreign ones), which reduced access for national talents to management posts. The technological cartography replaced the theoretical one, but it itself became an appendage of geoinformatics.

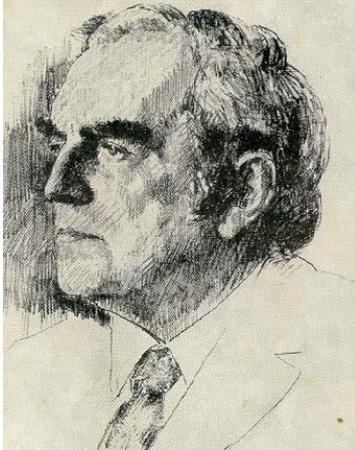
In the 2010s, the ICA embarked on a development course under the slogan “Quantity vs. quality” on the basis of 28-30 ICA Commissions with technological (and terminological) diversity. Discussions about cartography as a science and about conceptual thinking in cartography have lost their interest and importance. A new generation of pragmatists, geoinformatists, has come into cartography. But theoretical cartography is not disappeared and the retrospective photoatlas proves it.

2.1. Kolacny model of cartographic communication (1970)

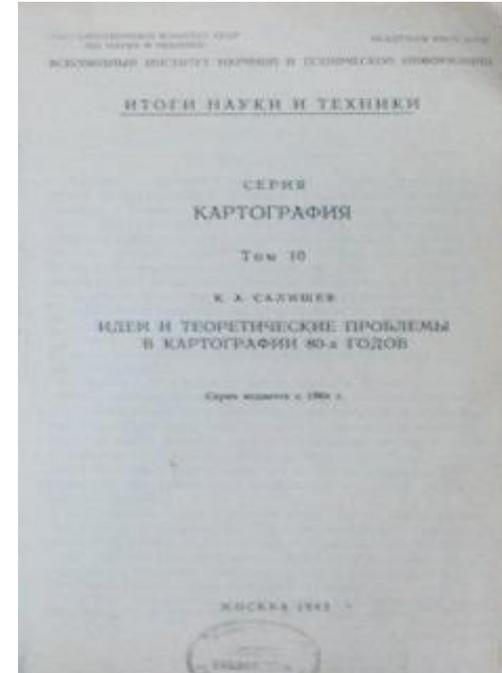


In the late 1960s, the Prague engineer Antonin Kolacny proposed a model of cartographic communication (Kolacny 1970, see this slide). It inspired to form a new ICA commission “Cartographic Communication” in 1972 and to activate a new theoretical-conceptual movement in cartography.

2.2. Cognition vs. communication after Salischev (1982)



K.A. Salischev
(1905-1988)

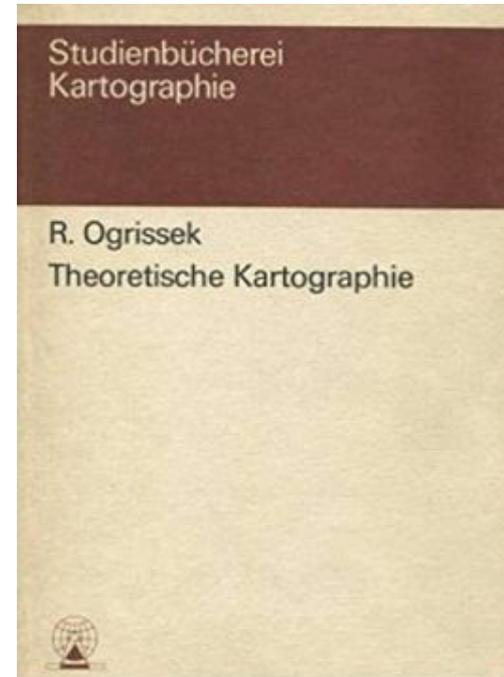


At the beginning of the 1980s, the leader of the Soviet cartography prof. K.A. Salischev published an interesting analysis of the theoretical problems of cartography in the 1980s (Salischev 1982). It was a clear criticism of the ICA Commission “Cartographic Communication” under the direction of prof. L. Ratajski. According to Salischev, the Soviet cognitive cartography and its methods had essential priorities over communicative cartography. The semiotic ideas in the theoretical cartography also get criticism.

2.3. Theoretical cartography at the universities



R. Ogrissek
(1926-1999)



In 1987, the first textbook for theoretical cartography was published in German, in the GDR. The author was prof. R.Ogrissek, director of the Institute of Cartography at the Dresden University of Technology. The book was designed as a textbook for the universities and for cartography students .

The textbook content was based on theoretical-cartographic publications and experiences from Soviet and Western cartography as well as in the GDR.

2.4. Map language and cartonomy



A.A. Louty
(1942-2001)

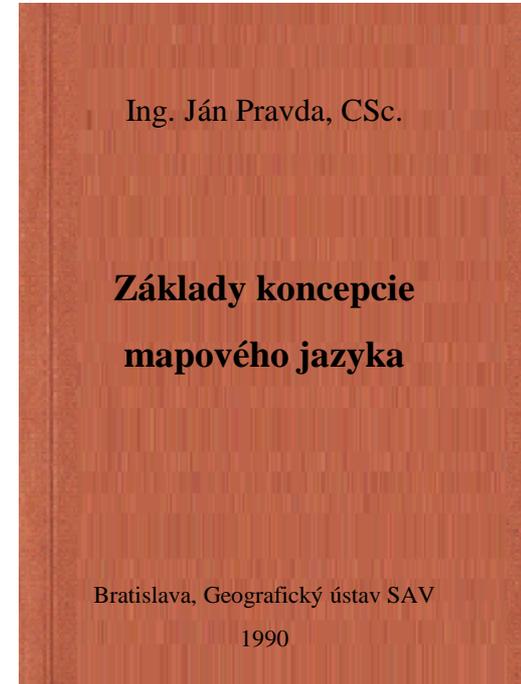
In 1988, prof. A.A. Louty published his book “Map Language: Nature, System, Function” in Moscow. The book was the first map language-related investigation into the USSR. A new theoretical-cartographic conception “cartonomy” has also been proposed. Unfortunately in 2001 A.A. Louty (member of the ICA Commission on Theoretical Cartography) unexpectedly died. It was a big loss for the Commission. Louty was a talented cartography theorist in the USSR / Russia. His name is in the rank of great theorists such as K.A. Salischev, A.F. Aslanikashvili, M.K. Bocharov, etc.



2.5. Basic conception of map language



J. Pravda
(1935-2010)



Slovak cartographer J. Pravda published in 1990 his dissertation “Basis of the Map Language Conception” as a result of many years of research. In Europe it was a second basic work in cartography (after Louty 1988) with map language-related studies.

Unlike the classic structure of the map language (syntactics, semantics and pragmatics) Pravda has proposed his linguistic structure of the map language with signics, morphography, syntax and stylistics.

2.6. Map language problems and cartosemiotics



A. Wolodtschenko

In 1993, Dresden cartographer A. Wolodtschenko published his book “Map Language Problems and Cartosemiotics”.

The analytical work is based on cognitive and communicative concepts in the theory of map language with semiotic, linguistic and geo-informative aspects.

The theory of cartography of the 1990s was characterized by integrative tendencies.



3. Tositomo Kanakubo and the ICA in the 1980s and 1990s



The 10th International Cartographic Conference was held in Tokyo in August 1980. Tositomo Kanakubo was a member of the organizing committee.

3. Tositomo Kanakubo and the ICA in the 1980s and 1990s

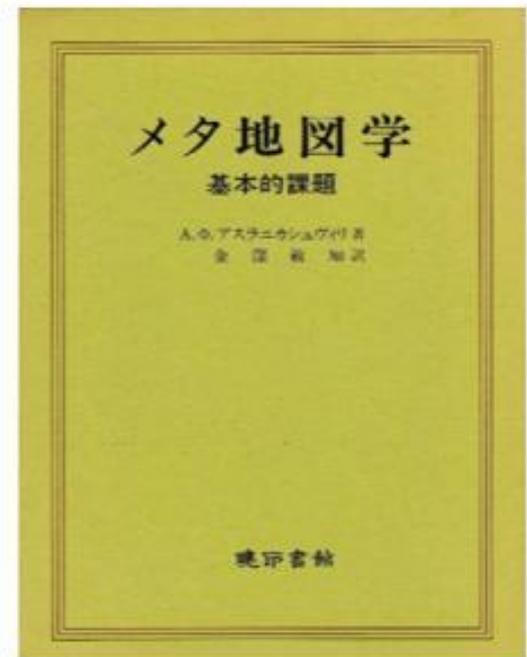
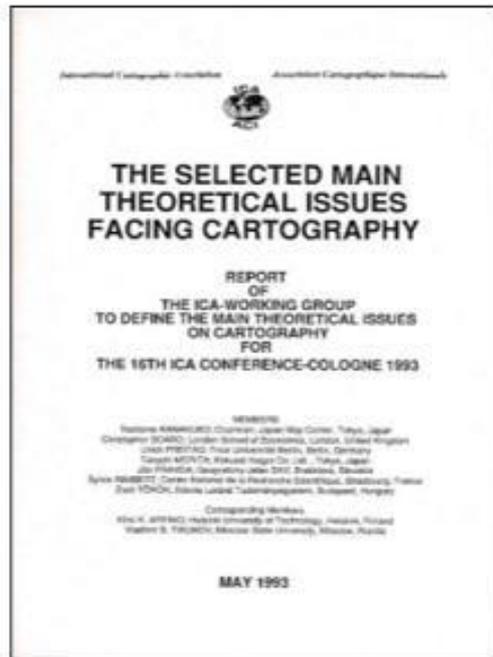


T.Kanakubo in the Tohoku University



In 1989 Tositomo Kanakubo wrote his treatise “The Contemporary Development of Theoretical Cartography” and received the degree of Doctor of Science from the Tohoku University.

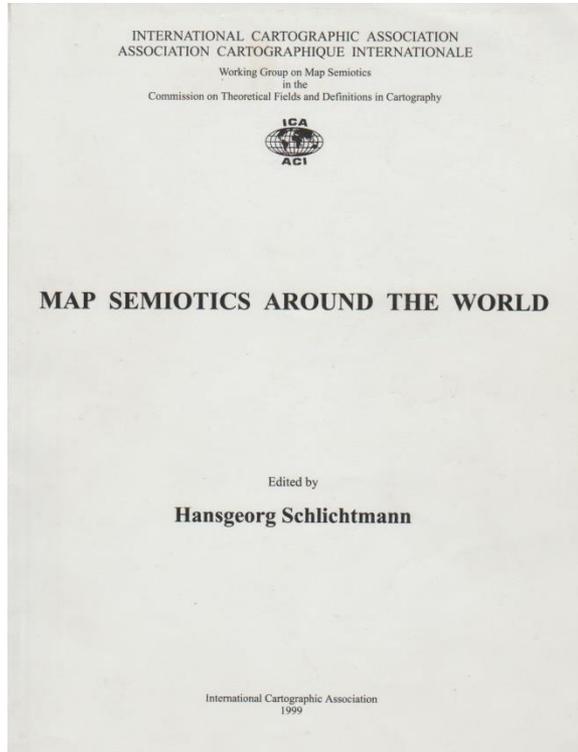
3. Tositomo Kanakubo and the ICA in the 1980s and 1990s



From 1991 to 1995 T. Kanakubo was chairman of the ICA WG “Define the Main Theoretical Issues for Cartography”. In the period 1995-1999 he chaired the ICA Commission on Theoretical Fields and Definitions in Cartography. The Commission included three WG: Map Semiotics (chair, prof. H. Schlichtmann), Cognitive Maps (chair, prof. T. Morita) and Definitions (chair, prof. Kadmon). In 1998 T. Kanakubo translated the book “Meta-cartography” written by Georgian cartographer A. Aslanikashvili, from Russian into Japanese.

3. Tositomo Kanakubo and the ICA in the 1980s and 1990s

ICA Working Group „Map Semiotics“ (1995-1999)



The ICA Working Group „Map Semiotics” under the direction of prof. H. Schlichtmann produced the book “Map Semiotics Around the World” in 1999 (Editor, H. Schlichtmann).

The collection contained detailed carto-semiotic and carto-linguistic literature reports for six language areas (German, English, French, Czech, Polish and Russian). The co-authors of this book were:

H. Schlichtmann, C.G. Grant, Ch. Hussy, W.G. Koch, A. Wolodtschenko, M.V. Drapela, P. Neytchev, A.A. Louty and N.N. Komedchikov.

This collection is designed to serve specialists in both cartography and semiotics.

4. ICA Commission on Theoretical Cartography (1999-2003)

The leadership of the Commission

Chair:

Alexander Wolodtschenko

Germany



Vice-Chair:

Hansgeorg Schlichtmann

Canada



ICA Executive Committee Contact:

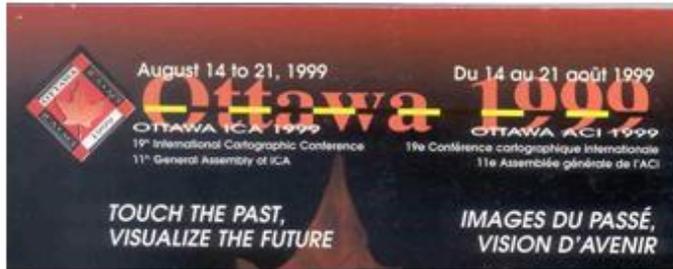
Takashi Morita

Japan



4.1. Selected conferences, seminars and workshops (1999-2003)

On the Commission meeting: ICC 1999 Ottawa



ICA Commission
Theoretical Cartography
1999



4.1. Selected conferences, seminars and workshops (1999-2003)

On the Commission meeting: ICC 2001 Beijing



4.1. Selected conferences, seminars and workshops (1999-2003)

On the Commission seminar in Gdansk 2002



4.1. Selected conferences, seminars and workshops (1999-2003)

On the Commission seminar in Vilnius 2003



5. ICA Commission on Theoretical Cartography (2003-2007)

The leadership of the Commission (2003-2007)

Chair:

Alexander Wolodtschenko

Germany



Vice-Chair:

Hansgeorg Schlichtmann

Canada



ICA Executive Committee Contact:

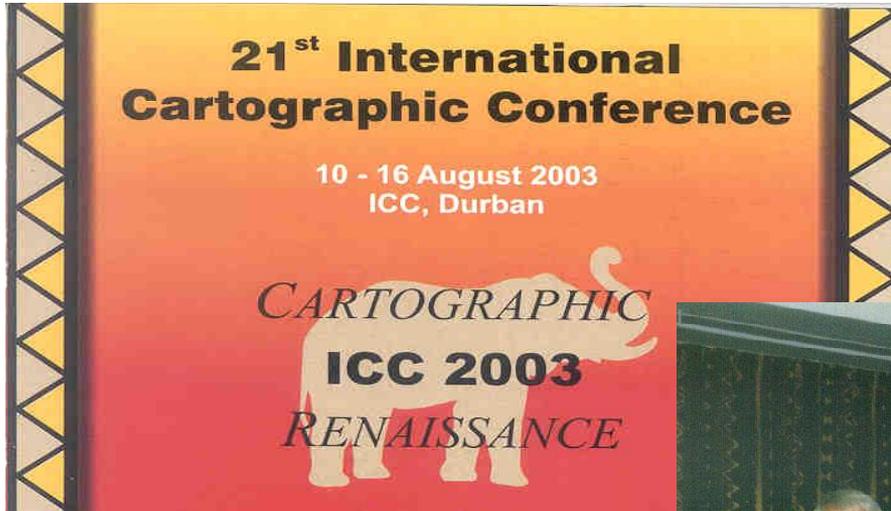
Takashi Morita

Japan



5.1. Selected conferences, seminars and workshops (2003-2007)

On the Commission meeting in Durban 2003



5.1. Selected conferences, seminars and workshops (2003-2007)

On the commission meeting in A Coruna 2005



22. ICA Conference 2005, A Coruna, Spanien



5.1. Selected conferences, seminars and workshops (2003-2007)

On the Commission conference in Wuchan 2006



5.1. Selected conferences, seminars and workshops (2003-2007)

On the Commission workshop in Kyiv 2007



6. ICA Commission on Theoretical Cartography (2007-2011)

The leadership of the Commission

Chair:

Alexander Wolodtschenko
Germany



Vice-Chair:

Giedre Beconyte
Lithuania



Vice-chair:

Yaive Ferland
Canada



6. ICA Commission on Theoretical Cartography (2007-2011)

Terms of reference

- Study selected topics of theoretical interest such as:
 - general and applied cartosemiotics
 - map language and cartographic conceptions
 - mapping as a cognitive process
 - cartographic ontology
 - terminology and toponymy
- Compare and contrast theoretical structures in cartography.
- Publish a cartosemiotic glossary.
- Conduct workshops or symposia about selected aspects of theoretical cartography.
- Compile and publish a report and collected papers about the work of the commission. Continue to develop the Commission website.

6.1. Selected conferences, seminars and workshops (2007-2011)

On the Commission seminar in Moscow 2007



6.1. Selected conferences, seminars and workshops (2007-2011)

On the Commission seminar in Barnaul 2008



BARNAUL

2008



6.1. Selected conferences, seminars and workshops (2007-2011)

On the Commission workshop in Vilnius 2008



6.1. Selected conferences, seminars and workshops (2007-2011)

On the Commission seminar in Kyiv 2009



6.1. Selected conferences, seminars and workshops (2007-2011)



**ICA Commission on Theoretical Cartography
Pre-ICC Seminar July 1, Paris 2011**



7. Selected publications of the commission members (1999-2011)

Jahr	Monographien
1999	- Map Semiotics Around the World. (Ed.H.Schlichtmann) Regina, ICA 1999 - Wolodtschenko, A.: Kartosemiotische und konzeptionelle Aspekte der 90er Jahre. Dresden 1999.
2000	- Casti, E.: Reality as representation. The semiotics of cartography and the generation of meaning. Bergamo 2000
2001	-Brodersen, L.: Map as Communication. Allerod 2001.
2002	-Wolodtschenko, A.: Kartosemiotik in Europa. Dresden 2002.
2003	-Wolodtschenko, A.: Ausgewählte Beiträge zur Kartosemiotik und zur Theorie der Kartographie 1993-2003. Habilitationsschrift. Dresden 2003.
2004	- Wolodtschenko A., Shevchenko V.O.: Doistorichni karty Ukrainy. Dresden 2004.
2005	- Berliant A.M.: Kartograficheski slovar. Moskva 2005. - Wolodtschenko, A.: Kartosemiotika. Mini-Wörterbuch. Dresden 2005.
2006	- Hruby, F.: Semiotische Begründbarkeit kartographischer Signaturen. München 2006. - Wolodtschenko A.: Atlasnaia kartosemiotika. Dresden 2006.
2007	-Wolodtschenko, A.: Nationalatlas Deutschland: ein kartosemiotisches Porträt. Dresden 2007
2008	-Brodersen, L.: Geo-communication and information design. Allerod 2008 - Jobst, M.: Ein semiotisches Modell für die kartographische Kommunikation mit 3D. Wien 2008. - Wolodtschenko, A.: Kartosemiotika. Mini-Wörterbuch. 2. Auf. Dresden 2008.
2009	-Wolodtschenko,A., Shevchenko,V.O., Poliakova,N.: Kartosemiotichny slovnyk. Dresden 2009 - Wolodtschenko, A.: Kartosemiotika. Mini-Wörterbuch. 3. e_Auf. Dresden 2009.
2010	- Wolodtschenko,A.: Prähistorische Karten und Zeichensysteme. Mini-Atlas. Dresden 2010.
2011	Schlichtman, H.Cartosemiotik mini-glossar. ICA, Regana 2011.

List of selected publications (after Wolodtschenko 2011)

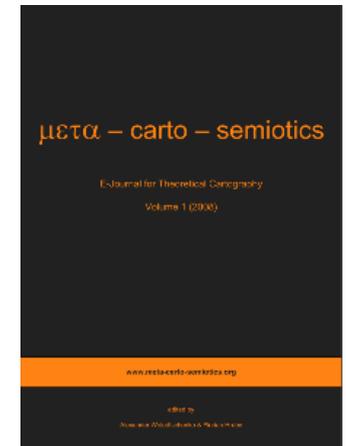
8. The Renaissance of the Theoretical Cartography: who needs it?

12 years from 1999 to 2011, the ICA Commission on Theoretical Cartography (TC) worked with solid European traditions under the direction of German cartographer and cartosemiotician A. Wolodtschenko. The Commission left a significant mark in the ICA and this photoatlas documents it.

The period 2011-2015, prof. Du from China chaired the ICA Commission TC without special results. For the periods 2015-2019 and 2019-2023 the ICA does not found chairman for Commission TC.

And who needs this Commission? Who needs the cartographic theory (with conceptions, see slide 35), which does not get “devidents” today?

But the theoretical cartography as a concept and discipline is not disappeared. It manifests itself in alternative projects e.g. the collection series “Discussion contributions to cartosemiotics and cartography theory” (since 1989, eds. H. Schlichtmann and A. Wolodtschenko) and e-journal “Meta-carto-semiotics” (since 2008, eds. F. Hruby and A. Wolodtschenko). These two editions have been the only theoretical cartosemiotical editions in the world for the last 10 years.



8. The Renaissance of the Theoretical Cartography: who needs it?

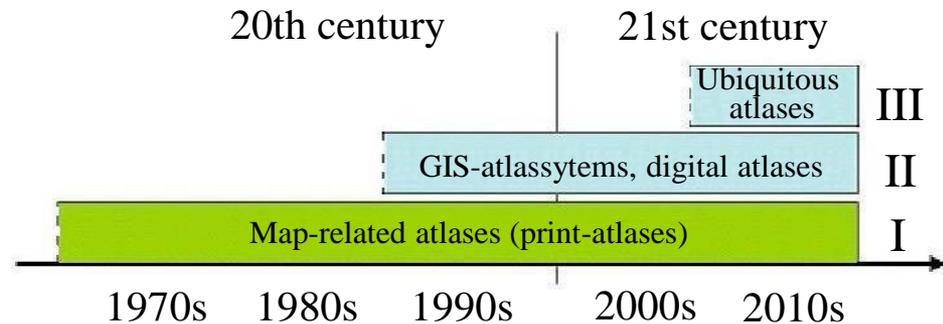
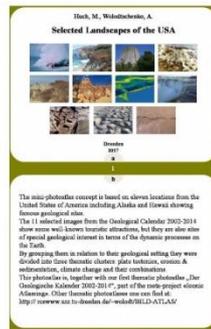
Author	Conception	Year	Reference models
J. Bertin (France) 	Graphic Semiotics	1967	Maps, diagrams, nets
A.F.Aslanikashvili (USSR) 	Metacartography	1968	Maps
L. Ratajski (Poland) 	Cartology	1976	Maps
H.Schlichtmann (Canada) 	Map symbolism	1985	Maps
A.A.Liouty (USSR) 	Cartonomy	1988	Maps
J. Pravda (Slovakia) 	Map language	1990	Maps
A.Wolodtschenko (Germany) 	Map language system	1996	Maps
A.Wolodtschenko (Germany) 	Meta-cartosemiotics, Meta-cartoatlassemiotics	2009, 2017	Carto-atlas-semiotic models (maps, atlases, globes, etc.)

List of selected semiotic and cartosemiotic conceptions (1960s -2010s)

8. The Renaissance of the Theoretical Cartography: who needs it?

Multidisciplinary “ Iconic atlasing“ project

The innovative cartosemiotic and atlas-semiotic projects are implemented in the section “Environment-, Carto/Atlas-Semiotics”(ECAS) of the German Society for Semiotics (GSS). The section ECAS prepares a semiotic mini-forum “From mapping to atlasing”. It would be advisable to hold such a forum with ICA and GSS, DGfK, etc. The project „iconic atlasing“ deals with various photo-based atlases (with cartographic and non-cartographic traditions). It is implemented by A. Wolodtschenko and M. Huch (Section ECAS). In the period from 2015 to mid-2019, the project consisted of about 120 photoatlases as ubiquitous mini-atlases (with 30-35 slides, 10-20 MB, various topics, etc.) which belong to the third generation of atlases (see this slide). Our pictorial products (photoatlases, picture books, infographics, calendars, posters, etc.) are available from: <https://atlas-semiotics.jimdo.com/bild-atlantothek/> and <http://www.geokultur-erleben.de>



Photoatlases with one, two or three pages layouts (after Huch, Wolodtschenko 2018)

Three generations of atlases

8. The Renaissance of the Theoretical Cartography: who needs it?

Multidisciplinary „iconic atlassing“ project

In 2017, the Section “Environment-, Carto/Atlas-Semiotics”(ECAS) has organized an interdisciplinary session “Geo-Carto- and Atlas-Semiotics” on the 13th World Semiotic Congress in Kaunas.

Session: Geo-, Carto- and Atlas-Semiotics



The theoretical-methodological themes of the session presentations reflected various disciplines such as geography, cartography, ecology, media-informatics, history, linguistics, tourism, archeology, etc.

Bei the way, in 2015 and 2017, the author of this atlas proposed a new Working Group “Atlassing and cartography” or “Mini-photoatlases in cartography” but the leadership of the ICA rejected this.

8. The Renaissance of the Theoretical Cartography: who needs it?

One of the new alternative project is “Visual analysis of ubiquitous atlases“ or “SuAVE visual analysis of ubiquitous atlases”.

It includes an improvement semiotic analysis methodology (to view, explore, compare, analyze etc.) for atlas interested users.

Project is implemented by I. Zaslavsky (University of California) and A. Wolodtschenko (section ECAS). Screenshot shows the result of semiotic classification for four atlas groups of 100 mini-atlases with/ and non-cartographic traditions.

The screenshot displays the SuAVE Photoatlases 2 web application. The interface includes a search bar at the top left, a classification sidebar on the left, and a main display area showing a grid of atlas thumbnails. The classification sidebar lists categories: Photoatlases (30), Text related atlas (1), Map-related atlas (1), and Mix atlas (2). The main display area shows a grid of atlas thumbnails, with a summary bar at the bottom indicating counts for 'Map related atlas' (1, 1%), 'Mix atlas' (2, 2%), 'Photoatlas' (90, 91%), and 'Text related atlas' (6, 6%).

Among other tasks are: improve semiotic analysis methodology for the entire atlas collection; implement a semiotic analysis (“portraying”) of one separate atlas or a compacted relative analysis of two selected atlases (“double face analysis”) etc.

9. List of slides, references and imprint

Slides 1-11, 15-37 : Photo archive of A.Wolodtschenko

Slides 12, 13, 14: Photo archive of T. Kanakubo

Kolacny, A.(1970): Kartographische Information - ein Grundbegriff und ein Grundterminus der modernen Kartographie. In: IJC, vol. 10, 1970, S. 186-195.

Louty, A.A.(1988): Jazyk karty: suscnost', sistema, funkcii. IGAN SSSR, Moskva 1988

Ogrissek, R.(1987): Theoretische Kartographie. Gotha 1987.

Pravda, J.(1990): Základy koncepcie mapového jazyka. Bratislava 1990.

Salischev, K.A.(1982): Idei i teoreticeskie problemy v kartografii 80-ch godov (Ideen und theoretische Probleme. Moskva 1982.

Wolodtschenko, A.(1993): Kartoazykovye problemy i kartosemiotika. Dresden 1993

Wolodtschenko, A.(2011): 30 Jahre mit und für die Kartosemiotik (1981-2011). Intern. Kartogr. Seminar 14/2011, Dresden 2011.

Huch, M., Wolodtschenko, A.(2018): Quo vadis environmental and carto-/atlassemiotics? In: meta-carto-semiotics, vol. 11, 2018, 1-5 pp.

<http://ojs.meta-carto-semiotics.org/index.php/mcs/article/view/88/89>

Alexander Wolodtschenko

20th Anniversary of the Creation of the ICA Commission on Theoretical Cartography

Photoatlas. Dresden 2019

10. About the author



Alexander Wolodtschenko, dr. dr.h.c. (born 1949) is a graduate of the St.Petersburg University, Institute of Cartography and Geodesy (1974); promotion at the Dresden University of Technology, Department of Geodesy and Cartography (1987). Erasmus-Docent of the TU Dresden (since 2005).

He was chairman of the ICA Commission on Theoretical Cartography (1999-2003, 2003-2007 and 2007-2011). Editor-in-chief, almanac <geocontext> (2013-2016).

Co-editor of the cartosemiotic issue (since 1998, together with H. Schlichtmann). Co-editor of the e_journal <meta-carto-semiotics> (since 2008, together with F. Hruby).

Co-chairman of the section “Environment- and Carto/Atlassemiotics” of the German Society for Semiotics.

Author of 15 cartographic-semiotic monographs, more than 100 photoatlases and ca. 400 diverse articles.