

International Cartographic Association
Association Cartographique Internationale



Commission Report to the ICA Executive Committee

Commission: **Maps and Graphics for Blind and Partially Sighted People**
Date of Report: **12/07/2023**
Period of Report: **08/2019 - 07/2023**
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General Remarks:

This report presents the main activities of commission **Maps and Graphics for Blind and Partially Sighted People** carried out from August 2019 to June 2023.

Educational highlights (e.g. degree programs, MOOCs, lifelong learning courses)

Courses Taught

- **Curso/Taller Modelos Cartográficos Inclusivos para la enseñanza de la Geografía** (Course/Workshop Inclusive Cartographic Models for Teaching Geography)

Period: July 16 to 19, 2019

Location: Escuela Nacional de Gestión de Riesgo de la Comisión Nacional de Energía in Santo Domingo, Dominican Republic

Promotion: National Geographic Institute of the Dominican Republic, Dominican Section of the Pan American Institute of Geography and History and Center for Tactile Cartography of UTEM - Metropolitan Technological University of Santiago - Chile, with the support of the Commission.

Workload: 32 hours

Total Participants: 25 persons from different regions of the Dominican Republic

- **Curso/Taller Uso y Manejo de Símbolos Cartográficos Estandarizados y Imágenes Táctiles para la Enseñanza de la Geografía y Historia** (Course/Workshop Use and Management of Standardized Cartographic Symbols and Tactile Images for the Teaching of Geography and History)

Period: September 23 to 27, 2019

Location: National Geographic Institute of Ecuador

Promotion: National Geographic Institute of Ecuador, Ecuadorian Section of the Pan-American Institute of Geography and History and Tactile Cartography Center of UTEM - Metropolitan Technological University of Santiago de Chile, with the support of the Commission.

Workload: 32 hours

Total Participants: 20 persons from Colombia, Ecuador, Spain and Peru

The classes in these two courses were taught by professionals from different areas, such as: Cartography, Geography, Design and Special Education. The discussions involved

theoretical issues related to the Introduction to Cartography and Tactile Cartography, as well as the development of practical activities, such as the construction of tactile teaching materials (in collage and aluminum) and dynamics on the use of tactile maps in the classroom.

Notable cross-disciplinary events (e.g. with other ICA Commissions/WGs, regional and international communities)

Events Organization:

1 – ICA Joint Commission Workshop – Usability 4 All

This event was held on November 23, 2020, prior to the XI Brazilian Colloquium on Geodetic Sciences. It was organized by Commissions on User Experience and Open Source Geospatial Technologies, with the participation of the Commission Cartography and Children and Maps and Graphics for Blind and Partially Sighted People.

Lecture given by Waldirene Ribeiro do Carmo: ***Cartography Accessible for Disabled People.***

https://cbcg.ufpr.br/?page_id=1970

2 – Joint ICA – Workshop “Cartography Connecting Schools”

The event was organized in partnership with the commission **Cartography and Children**. The workshop took place in the online modality on December 02 and 03, 2021. 70 participants, 20 paper's presentation, 02 keynote speeches.

<http://jointica2021.elte.hu/>

3 – Joint ICA – Workshop “Cartography Connecting Schools”

The workshop will take place in Cape Town on August 12, 2023. (Hybrid format), prior to the 31st International Cartographic Conference. It has been organized in partnership with the Commission on **Cartography and Children**.

12 paper's presentation, 01 keynote speech.

<https://jointica2023.wixsite.com/joint-ica-2023>

Attendance at events:

1 – EUROCATO 2020 - Central European Cartographic Conference.

Paper presentation: CARMO, Waldirene Ribeiro do & SENA, Carla Cristina Reinaldo Gimenes de. Tactile Cartography Courses in the Continued Education of Teachers from Latin America.

September 21 – 25, 2020, Universität Wien, Österreich (Online event)

2– Xi Colóquio de Cartografia para Crianças e Escolares

(XI Cartography Colloquium for Children and Schoolchildren)

This event took place from November 17 to 20, 2020. The paper "Tactile Cartography in Latin America: the importance of continuing education courses" was presented. The text was written in co-authorship with my colleague Carla Sena, from the Cartography and Childhood Commission.

3 - 30TH INTERNATIONAL CARTOGRAPHIC CONFERENCE

Paper presentation - *Tactile Cartography in Latin America: experiences with workshops*, in the (online participation on December 16, 2021. In partnership with Carla Sena from the Commission Cartography and Children

Session Coordination – *T15-1 Maps and Accessibility* (online participation on December 16, 2021)

Notable public events (e.g. invited public speech, Mapathon, TED talks, hackathon, etc.)

Participation as a Lecturer in Webinar's:

1 - Material didático tátil: acessibilidade no ensino de Geografia/ Tactile didactic material: accessibility in geography teaching

The lecture was taught through the Google Meet platform on May 13, 2020, invited by @esferageo on Instagram.

2 - Acessibilidade e Inclusão no Ensino de Geografia/Accessibility and Inclusion in Geography Teaching.**

The activity was broadcast on YouTube on June 16, 2020, on the invitation of Federal Rural University of Rio de Janeiro.

Available in: <https://www.youtube.com/watch?v=Udmwp8s08oE>

3 - A Cartografia Tátil no Lemadi/USP: uma trajetória de conquistas/Tactile Cartography at Lemadi / USP: a trajectory of achievements.

The lecture was streamed by Youtube on June 23, 2020, at the invitation of LabTate - Laboratory of Tactile and School Cartography at the Federal University of Santa Catarina.

Available in: https://www.youtube.com/watch?v=I-lxLGepG_0

4 - Produção de Material Didático Tátil e Acessibilidade no Ensino de Geografia Production of Tactile Didactic Material and Accessibility in Geography Teaching

The lecture was taught through the Google Meet platform on July 08, 2020, on the invitation of Pedology Laboratory of the Department of Geography of the University of São Paulo.

5 - Interfaces entre a Cartografia Crítica e o Ensino de Geografia – modulo Cartografia Tátil /Interfaces between Critical Cartography and Geography Teaching - Module Tactile Cartography.**

The course was streamed by Facebook on August 18, 2020, at the invitation of Federal University of São Carlos - Campus Sorocaba, Brazil.

Available in:

<https://www.facebook.com/107466777718335/videos/331998627939924/>

6 - Educação Inclusiva e Ciências Humanas: perspectivas e possibilidades/ Inclusive Education and Human Sciences: perspectives and possibilities**

The Lecture was streamed by Youtube on September 15, 2020, invited by Coordinating Officers of the area of Human Sciences of Bauru – SP, Brazil.

Available in: <https://www.youtube.com/watch?v=4U5PgrRBz7Y>

7 - Teaching and representations: geographic views**

The lecture was delivered through the Google Meet platform on September 28, 2020, during the class of the Basic and Thematic Cartography of Geography course at the State University of Rio de Janeiro.

8 - Ensino de Geografia e Inclusão: produção e uso de materiais didáticos táteis/ Teaching Geography and Inclusion: production and use of tactile didactic materials

The Lecture was taught through the Google Meet platform on March 12, 2021, on the invitation of Regional University of Cariri (URCA) - Ceará - Brazil.

9 - Mapas Adaptados para Pessoas com Deficiência Visual /Adapted Maps for visually disabled people

The Lecture was given through the Google Meet platform on March 23, 2021, to high school students at the **School Providence** of Mariana - Minas Gerais - Brazil

10 - Ensino de Geografia e Inclusão: produção e uso de materiais didáticos acessíveis/Teaching Geography and Inclusion: production and use of accessible didactic materials

The Lecture was presented through the Google Meet platform on April 08, 2021, at the invitation of State University of Amazonas- Parintins – AM -Brazil.

11 - Ciências Humanas e Sociais Aplicadas - Cartografia Tátil/Applied Human and Social Sciences - Theme Tactile Cartography**

Lecture given to teachers from the city Itapetininga – São Paulo on the April 27, 2021, by Youtube at the invitation of Coordinating Officers of the area of Human Sciences.

Available in: <https://www.youtube.com/watch?v=dDI9bL2Yoek>

12 - O que você precisa saber sobre Cartografia Tátil /What you need to know about Tactile Cartography

The lecture was broadcast on Youtube on June 09, 2021, invited by UNESP - Universidade Estadual Paulista.

Available in: <https://www.youtube.com/watch?v=F5obZ4gsj7g&t=144s>

13 - Tactile Cartography module of the Extension Course "*Teaching Geography and School Inclusion: Pedagogy of Autonomy*".

The course was held on May 31, 2022, for the Research Group on Teaching Geography from the Perspective of the Integral Human Being and the Laboratory of Popular Education of the Institute of Geography of the Federal University of Uberlândia, Brazil.

Available on: https://youtu.be/bnL_jWD_YWE

14 - Tactile Cartography and Geography Teaching lecture given on June 28, 2022, in the discipline "Geography Teaching for Basic Education". This subject is part of the initial training in Geography Licenciature at the University of São Paulo.

15 - Tactile Cartography and Geography Teaching lecture given on June 23, 2023, in the discipline "Geography Teaching for Basic Education". This subject is part of the initial training in Geography Licenciature at the University of São Paulo.

16 - Other Cartographies: Tactile Cartography lectures given on June 19, 20 and 22, 2023, in the discipline "Introduction to Cartography". This subject is part of the training in Geography at the University of São Paulo.

** These activities were conducted in partnership with my colleague Carla Sena from the Commission on *Cartography and Children*.

Commission/Working Group highlights (e.g. conferences, publications, products & services, awards, etc. and outcomes for the EC to take note)

Publications

SENA, Carla Cristina Reinaldo Gimenes de & CARMO, Waldirene Ribeiro do (2020). School cartography in Brazil and its inclusive perspective, **International Journal of Cartography**, Volume 06, Issue 3. (p 316-330), DOI: 10.1080/23729333.2020.1824565

SENA, C. C. R. G e CARMO, Waldirene Ribeiro do. (2021) Acessibilidade e Inclusão no Ensino de Geografia: a contribuição da Cartografia Tátil. In: CARDOSO, C.; QUEIROZ, E. D. e SANTOS, C. (Org.). **Ensino de Geografia e Climatologia: novas formas de dialogar em tempos de isolamento social**. Autografia, Rio de Janeiro – RJ, Brasil, p. 106-132.

(Publication of a book chapter in partnership with Carla Sena from the Commission on Cartography and Children).

SENA, Carla C. R. Gimenes de; CARMO, Waldirene R. do. (2022). Cartografia inclusiva: o potencial dos mapas táteis no ensino de geografia. **Revista Diálogos e Perspectivas em Educação Especial**, v. 9, n. 2, p. 127-144, Jul.-Dez. 2022.

Available in:

<https://revistas.marilia.unesp.br/index.php/dialogoseperspectivas/issue/view/715>.

Any other sharable experiences

1- **Interview** about **Tactile Mapping** given to Ms. Rosalie Wessel from Tomtom Blog

The text is available at:

<https://www.tomtom.com/newsroom/explainers-and-insights/tactile-mapping-helping-the-blind-find-their-way/>