

# DISTRIBUTION OF 2 500 000 REGIONAL MAPS AT SCALE 1:50 000 AND 2 500 000 AERIAL IMAGES OF CATALONIA REGIONAL CAPITALS WITH THE NEWSPAPER "LA VANGUARDIA" DURING ITS CAMPAIGN CATALONIA VILLAGE BY VILLAGE

In November 2005, a collaborative agreement between ICC and La Vanguardia Ediciones SL was signed for the distributorship of 41 topographic maps of Catalonia regions at scale 1:50 000 and 41 aerial images of Catalonia regional capitals. All this cartography has been issued by ICC. This distribution is completed with the collection *Catalunya poble a poble* (Catalonia village by village) –14 volumes– edited by Edicions 62. The promotion is sponsored by Gas Natural.

**"THIS IS THE MOST COMPREHENSIVE COLLECTION OF THE VILLAGES OF CATALONIA"**

The information that appears on regional maps refers to the last edition came out during the period 2004-2005 and includes the new catalogues of roads and the official toponymy of Catalonia.

**"TOPOGRAPHIC MAPS 1:50 000 ARE A RIGHT TOOL FOR LEARNING ABOUT THE TERRITORY"**

The aerial images are at scales 1:4 000 or 1:5 000 and originate from the photogrammetric flights in color made by the ICC in 2004-2005. There are a total of 45 images,



which correspond to 41 regional capitals (distributed in a single sheet, with the exception of Barcelona that appears on 4 sheets, and the co-capitals of Sabadell-Terrassa, which appear on 2 sheets).

**"AERIAL IMAGES THAT COVER ALL REGIONAL CAPITALS IN DETAIL"**

Maps and aerial images are distributed on paper and can be purchased at news-stands. The first installment took place on Sunday, January 8th, 2006. Installments follow on Mondays, Tuesdays and Wednesdays, and the book (14 volumes) on Sundays. The last installment will appear on April 10th, 2006. Newspaper subscribers can reserve this promotion and receive it at home in a single package.

**"MAPS AND AERIAL IMAGES ARE DISTRIBUTED IN JANUARY, FEBRUARY, MARCH AND APRIL 2006"**



## SUMMARY

Distribution of 2 500 000 regional maps at scale 1:50 000 and 2 500 000 aerial images of Catalonia regional capitals with the newspaper "La Vanguardia" during its campaign *Catalonia village by village*

Satellite image map of Catalonia 1:250 000

Compilation of the first 90 issues of the Internal Bulletin of the Societat d'Onomàstica on CD-ROM

Earthquakes in Catalonia in the 14th and 15th centuries

This is cartography

WARTK-EGAL project

IMAGO CATALONIAE. Maps of Catalonia, footprints of history

Completion of technical assistance to the Republic of Namibia

Free distribution of the ICC's Topographic database 1:5 000

Symposium "Land registry cartography in Spain (18th-20th centuries)"

"Digital Map Librarianship" course

First public presentation of GeoServices

20th anniversary of the seismological bulletin of Catalonia

This newsletter is a free publication available in Catalan, Spanish and English.

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Institut Cartogràfic de Catalunya



## SATELLITE IMAGE MAP OF CATALONIA 1:250 000

In June 2005, the ICC published the 4th edition of the *Mapa d'imatge satèl·lit de Catalunya 1:250 000* in paper format. The 3rd edition was published in 1992.

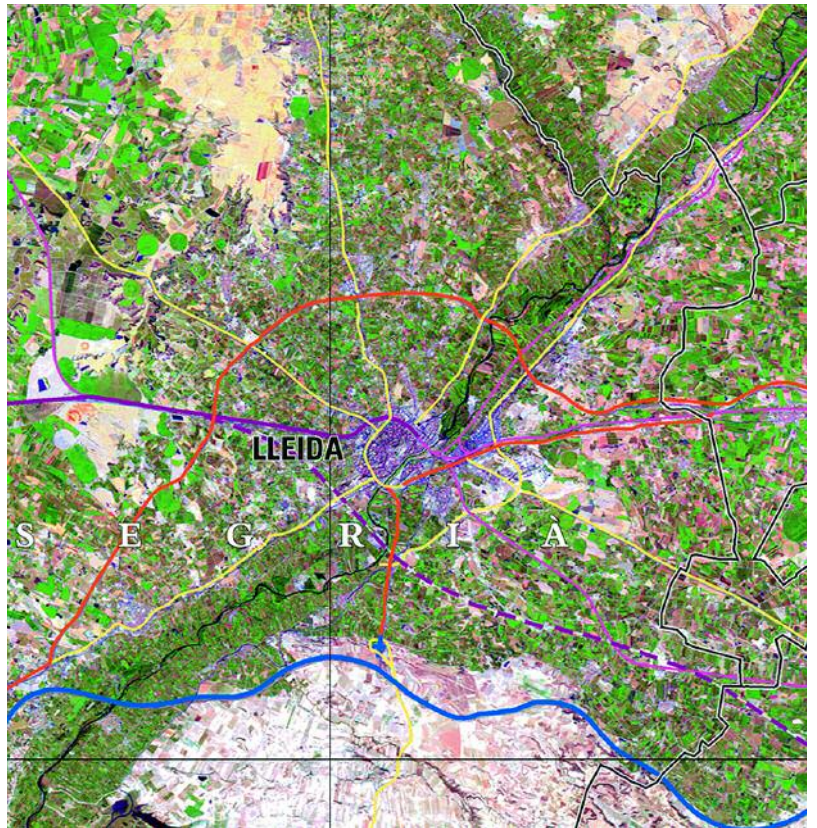
The image of Catalonia has been captured by the Landsat 5 satellite (with the TM sensor) and the Landsat 7 satellite (with the ETM+ sensor).

**"TO COVER CATALONIA  
AND THE SURROUNDING AREAS  
SHOWN ON THE MAP,  
THREE SATELLITE IMAGE HAVE BEEN USED"**

Archive images have been used to complete the areas outside Catalonia and other areas covered by cloud.

The satellite images were taken in the summer months, when the light is good, with fewer shadows, less snow in the mountainous areas and little cloud cover. Another characteristic of the images captured in the summer months is that, in general, the different types of vegetation cover can be clearly distinguished.

In order to convert the images captured on an orthoimage, the errors caused by the movements of the satellite when the images are captured are geometrically corrected. Once corrected, the images, digitally joined, are mosaicked, seeking to ensure that the changes of date and the elimination of clouds do not diminish the radiometric quality. Finally, the color is corrected.



## COMPILATION OF THE FIRST 90 ISSUES OF THE INTERNAL BULLETIN OF THE SOCIETAT D'ONOMÀSTICA ON CD-ROM

In February 2006, the ICC and the Societat d'Onomàstica (Onomastics Society) published the compilation of the first 90 issues of the *Butlletí Interior de la Societat d'Onomàstica* on CD-ROM.

The aim of this publication is twofold: on the one hand, to make it easier to consult the more than 2 160 reviews of books or articles published in other journals and the more than 1 700 articles published in these bulletins in the 22 years between volume 1 (1980) and volume 90 (2002), and on the other hand, to make the information contained to date on paper available for consultation in other formats.

**"WITH THIS PRODUCT, ARTICLES  
AND REVIEWS CAN BE CONSULTED AND PRINTED"**

Users can search for articles by title of the article, author and keyword.

Searches for reviews can be made by the original title of the book or article reviewed, by the author of the book or article, by keyword or by the author responsible for the review published in the bulletin.

In addition to the inquiry application, information display and printout features of the CD-ROM, it also contains all the articles and reviews in PDF format, classified in folders with the number of the bulletin in which they were published, should the user wish to access them directly.

The articles that appear in the bulletins of the Societat d'Onomàstica seek to develop the inventory and study of toponymy, anthroponymy and onomastics of the territories where

the Catalan language is spoken, and in this respect it is the aim of the ICC, as an institution committed throughout its cartography to accurate and correct toponymy which preserves place names, that this source of information should not be lost, and that the information is easy to access for consultation purposes.

Títol	Autors	Butlletí	Pàgina	Nota
Llistes de malnoms, renoms, motius, i noms de casa (I)	• Moreu-Rey, Enric	1	45	NO
Llistes de malnoms, renoms, motius, i noms de casa (II)	• autor desconegut	2	23	NO
Llistes de malnoms, renoms, motius, i noms de casa (III)	• autor desconegut	3	21	SI
Apèndix documental [del Col·loqui d'Andorra], IV. Cronemes i noms de casa andorrans de 1848 a	• Comó Cebrian, Laura	4	36	NO

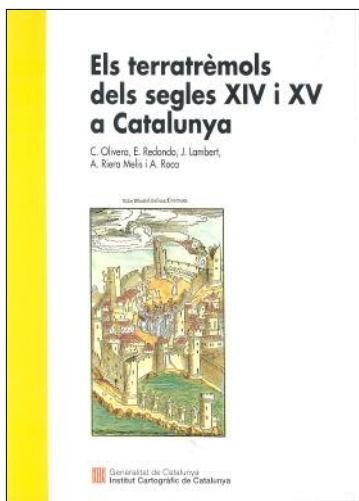
27 article/s a la cerca

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## EARTHQUAKES IN CATALONIA IN THE 14TH AND 15TH CENTURIES

In January 2006, the ICC published the book entitled *Els terratrèmols dels segles XIV i XV a Catalunya*. This is an exhaustive multidisciplinary study undertaken by C. Olivera, E. Redondo, J. Lambert, A. Riera Melis and A. Roca, members of the ICC Geological Service, the Bureau de Recherches Géologiques et Minières of the Service Géologique National de Orleans (France) and the Department of Medieval History of Universitat de Barcelona.

The aim of this book is to publicize the study of the most important earthquakes that have occurred in the history of Catalonia, as these data have an important part to play in reducing risk in areas where public and private construction projects are planned.



## THIS IS CARTOGRAPHY

In December 2005, the ICC published the book *Això és la cartografia* in conjunction with the publishing house Mediterrània, as part of the latter's "Això és" collection.

The aim of this publication is to bring the fascinating world of cartography alive to children, by taking them on a journey which reviews the production of maps from ancient times through to the present day.

Some general information is provided about the techniques that are employed to produce a map, what is shown on it and how it can be used.



## NEWS

### IMAGO CATALONIAE. Maps of Catalonia, footprints of history

In December 2005, the ICC published the book *Imago Cataloniae. Maps of Catalonia, footprints of history* as an exclusive undertaking for the Presidential Department of the Government of Catalonia. The work appears in two versions: one in Catalan and French, and the other in Spanish and English.

*Imago Cataloniae* is a work that seeks to divulge information: by means of maps, it shows what the territory of Catalonia has looked like throughout its history, from the Middle Ages to the present day.

The book begins with a brief introduction to the history of cartography, including an explanation of how Catalonia is related with the ancient maps, how cartographic production in Catalonia evolved between the 17th and the 20th century, and details of the institutional cartography of Catalonia. This is followed by the map catalogue, with a total of 182 pieces, each of which is accompanied by catalographic data and a brief description.

**"THE WORK CONTAINS 182 PIECES, 159 OF WHICH FORM PART OF THE COLLECTION OF THE CATALONIA MAP LIBRARY"**

The text and the images are presented in chronological order, from the medieval cartography to the representations of the Principality of Catalonia in the 17th century, and from the first known printed map, the *Nova Principatus Cataloniae descriptio*, by Johannes Baptista Vrients, dated 1602-1605, to the sample of the ICC's production, namely the last edition of the *Mapa topogràfic de Catalunya 1:250 000*.



## RESEARCH AND DEVELOPMENT

### WARTK-EGAL PROJECT

Within the framework of the European Galileo Joint Undertaking program, the ICC is taking part, together with the Universitat Politècnica de Catalunya (UPC) (co-ordinating body), the Finnish Geodetic Institute (Finland), Pildo (Spain) and IFEN (Germany), in the WARTK-EGAL project (WARTK based on EGNOS and Galileo: Technical Feasibility Study). This project was begun in October 2005 and will end in September 2006.

The research group in astronomy and geomatics (gAGE/UPC) has developed the new technique known as Wide Area Real Time Kinematic (WARTK), facilitating the extension of the RTK (Real Time Kinematic) service, which requires a much smaller infrastructure to cover a service area. Therefore, WARTK will make it possible to provide real-time GNSS positioning of mobile users in extensive areas,

where at present this is not viable, with an accuracy of less than 10 centimeters.

In the case of Catalonia, the CATNET network of the ICC offers the ideal framework in which to test the WARTK system with GPS in real time, providing the opportunity to progress towards the development of the first prototype based initially on GPS, and subsequently on Galileo.

In this context, the principal aim of the project is to determine the potential of the EGNOS RIMS network (European network of permanent stations for EGNOS) to provide support for subdecimetric navigation in real time based on the WARTK technique. In this way, impetus will be given to this service throughout Europe, and the metric level accuracy of the EGNOS system could be improved by the subdecimetric accuracy of the WARTK system.



## BRIEF NOTES

### FREE DISTRIBUTION OF THE ICC'S TOPOGRAPHIC DATABASE 1:5 000

Since January 1st, 2006, the topographic database 1:5 000 of the ICC, in vector format, has been distributed free of charge.

This database may be obtained at the distribution and sales centers of the Institute, and in the near future it will also be available for downloading online.

### SYMPOSIUM "LAND REGISTRY CARTOGRAPHY IN SPAIN (18TH-20TH CENTURIES)"

On November 20th-21st, 2005, the History of cartography symposium entitled *Cartografia cadastral a Espanya (segles XVIII-XX)* was held at the headquarters of the ICC.

The aim of the symposium was to provide awareness of the wealth of land registry cartography which has been produced and to publicize the work that is currently being carried out in Spain.

13 lectures were given (7 by organizations in Catalonia and 6 by entities in the rest of Spain). The opening lecture was given by R. Kain, of the University of Exeter.

57 persons attended the symposium, including university professors and geography students.

### "DIGITAL MAP LIBRARIANSHIP" COURSE

On November 16th-18th, 2005, the "Digital Map Librarianship" course, directed by Patrick McGlamery, Director of the Library Information Technology Service of the University of Connecticut (USA), was held at the headquarters of the ICC.

This course formed part of the 2nd series of lectures organized by the Catalonia Map Library (ICC Newsletter No. 22).

The course, which was imparted in English, lasted 15 hours and was attended by 16 persons.

### FIRST PUBLIC PRESENTATION OF GEOSERVICES

On December 16th, 2005, the first public presentation of the GeoServices of the ICC was made at the headquarters of the Institute, with a great success of attendance with 180 registrants. GeoServices allow remote access to the cartographic data of the ICC (ICC Newsletter No. 24). Presentations can be found at the ICC web site.

### 20TH ANNIVERSARY OF THE SEISMOLOGICAL BULLETIN OF CATALUNYA

The *Butlletí sísmològic* has celebrated its 20th anniversary with the latest seismicity bulletin published both on the Internet and on paper.

The principal aim of this bulletin, which appears annually, is to present the reports of seismicity observed in Catalonia during the year in question.

## COMPLETION OF TECHNICAL ASSISTANCE TO THE REPUBLIC OF NAMIBIA

In September 2004, a contract was signed between the ICC and the Central Bureau of Statistics (CBS) of the National Planning Commission of the Republic of Namibia, through which the ICC was to provide the CBS with technical assistance in setting up geographic information systems. The project was financed by the Agencia Española de Cooperación Internacional - Spanish International Cooperation Agency.

In the implementation of the courses, the ICC received the collaborative support of the Universitat Autònoma de Barcelona (Geographic Information and Remote Sensing Laboratory, LIGIT), the Universitat de Girona (GIS and Remote Sensing Service, SIGTE) and the Universitat Politècnica de Catalunya (Fundació Politècnica de Catalunya, FPC).

### "THE ULTIMATE AIM WAS TO COVER THE TECHNICAL NEEDS OF THOSE ATTENDING THE COURSE"

With this in mind, the course was divided into four modules:

- Cartography and geographic information systems (GIS). GIS theory and applications; data structuring and purification; database creation and management; GPS technology, and basic cartography and concepts. This first module was held in Windhoek (Republic of Namibia) in November and December 2004 for the staff of the CBS (12), in addition to 4 representatives from other ministries that also produce geographic information.
- Advanced GIS. Referenced systems; data structuring and purification; database creation and management; digital cartography, and raster data and handling of this data. This module was held in Barcelona in February and March 2005 and was aimed at CBS staff entrusted with highly responsible tasks (6 persons).
- Cartography and advanced GIS. Raster data, photogrammetry and remote sensing; spatial data analysis; simulations; development of applications and metadata. This module was held in Barcelona and Girona in March and May 2005. It was aimed at CBS staff responsible for data analysis or management tasks (4 persons).
- Cartography and GIS management. Cost of coverage; standards, database specifications and metadata; data capture and dissemination policy; copyrights; inquiry services and equipment; GIS project management, and GIS and public institutions. This module was held in Barcelona and Girona in September and October 2005. It was aimed at CBS staff responsible for management tasks (2 persons).

The final evaluation of the project has been positive, since it has fulfilled the initial expectations, which were to provide CBS technicians with training so that they could manage and use different types of geographic information with GIS tools.



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