

Annual Report of Expert Group Geodesy (ExGG) of EuroGeographics

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***Federal Agency for Cartography and Geodesy
Frankfurt/Main, Germany***

***EUREF Symposium 2006
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Objectives of ExGG

- continue the work of Working Group VIII – Geodesy of CERCO
- field: Geodetic related topics of common interest with geo-information community
- mission: Interface between EUREF and EuroGeographics

Members of ExGG:

Zuheir Altamini, France

Elmar Brockmann, Switzerland

Heinz Habrich, Germany

Johannes Ihde, Germany

Ambrus Kenyeres, Hungary

Claude Luzet, France

Jaakko Mäkinen, Finland

Jaroslav Simek, Czechia

Günter Stangl, Austria

Joao AgriaTorres, Portugal

Georg Weber, Germany

Marijan Marjanovic, Croatia

Heinz König, Austria

Responsibility

EUREF

CRS-EU, Georail

nom. for INSPIRE, product catalogue,

Chair, CRS-EU, ISO 19111, EVRS

EVRS proceedings, definitions

EuroGeographics Head Office

Gravity, EVRS proceedings, definitions

Secretary

Validation, certification, ISO 19111

NTRIP, EPN densification

Public relation

EuroBoundaries

Dimitros Delikaraoglou, Greece

Edmandas Sleiteris, Lithuania

Maria Ovdii, Moldova

Matej Klobušíak, Slovakia

Yavuz Selim Sengün, Turkey

Lola Bahl, Denmark

Kazimierz Czarnecki, Poland

Anders Olsson, Sweden

Guests

Helmut Hornik

Work Plan and Activities

The ExGG has four core projects, integrated in the activities defined in the ToR and directly related with geodetic products (data and services):

- (1) European Vertical Reference System (EVRS) Implementation
- (2) Real Time GNSS Service (EUREF-IP)
- (3) Development of a product catalogue geodesy (INSPIRE)
- (4) Information system for European Coordinate Reference Systems (CRS-EU)

- 2003: decision of o the European Commission to relate their own geographical data to ETRS89
- 2004: EVRS Workshop
- Since 2005: Participation in INSPIRE drafting team
Cooperation with several project groups:
EuroBoundaries, GEORail

Status of the Product Catalogue Geodesy

- **A prototype has been realized on a website**
 - most recent terminology and product.
 - Link: <http://igs2.ifag.de/euref/>
- **Next implementation steps**
 - All fields of the product table must be filled.
phpMyAdmin tool may be used.
 - Link: <http://igs2.ifag.de/phpMyAdmin>
 - The „Web-Design“ must be improved.

The screenshot shows a Microsoft Internet Explorer browser window displaying the EUREF website. The browser's title bar reads "EUREF - European Reference Frame - Microsoft Internet Explorer". The address bar shows the URL "http://igs2.ifag.de/euref/details.php?id=1". The page content is organized into a sidebar on the left and a main content area on the right. The sidebar contains navigation links such as "Products", "Online Shop", "Registration", "Links", and "Contact". The main content area displays the "EUREF Product: Weekly EPN coordinates" and a "Product Specification" table. The table lists various parameters including Product Number, Class, Sub-Class, Accuracy, User Profile, Latency, Geodetic Technique, Updates, Availability, Reference Frame, Certification, Validation, and Registry. The page is rendered in a light green color scheme.

Details	Products
Select	
Select	
Select	
Select	

Product Specification					
Product Number: 5					
Class: Station	Sub-Class: Coordinates	Accuracy: 0.5 to 1.5 cm	User Profile: cm accuracy	Latency: 3 weeks	Geodetic Technique: GNSS
Updates: weekly	Availability: public	Reference Frame: ITRF	Certification: -	Validation: -	Registry: -

Product Explanation

EUREF calculates station coordinates of the EUREF GPS Permanent Network (EPN) for every week. Each Local Analysis Centers determines at first a sub-network solution. The EUREF product is a combination of these sub-networks.

Product Delivery

The combined solution is publicly available through a file in the SINEX format. You could download the files for every week from the server at <http://igs.ifag.de>.

[Products](#) [Full Catalogue](#) [Home](#)

INSPIRE: The Infrastructure for SPatial InfoRmation in Europe - Microsoft Internet Explorer

Adresse http://inspire.jrc.it/sdic_call/index.html



HOME
WHY INSPIRE?
INSPIRE PRINCIPLES
da de el en es fi fr it nl pt sv
STEPWISE APPROACH
INSPIRE ORGANISATION

WHAT'S NEW
KEEP INFORMED / REGISTER
CALL FOR EXPRESSION OF INTEREST

INSPIRE PROPOSAL
INTERNET CONSULTATION
STATE of PLAY: Reports
POSITION PAPERS
INSPIRE 2004

EVENTS
DOCUMENT ARCHIVE
CONTACTS
SDI INITIATIVES
SDI BENEFITS
USEFUL LINKS



@Contact Webmaster
Legal Notice

Call for Expression of Interest for INSPIRE development (Preparatory stage 2005 - 2006)

Welcome Joern Sievers

[Logout](#)

Registered LMO

Title: Bundesamt für Kartographie und Geodäsie (BKG)	View	Update
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Register Experts

Experts already registered for the LMO

Juergen Walther	View	Update
Andreas Illert, Dr.	View	Update
Heinz Habrich	View	Update

[Register a new expert](#)

Register Reference Material

Documents already registered for the lmo

ATKIS Feature catalogue – chapter D4 : DLM1000	Update	
Report on Global Schema for GiMoDig	Update	
ATKIS Feature catalogue – chapter D3 : DLM250	Update	
GeoInfoDok 4.0 (Triple AAA model)	Update	
Marketing Guidelines (Charging principles) on the Distribution and Use of Geobasic Data of the National Mapping and Cadastre Agencies of Germany (AdV-Endgeltrichtlinie)	Update	
OGC "ISO 19115/19119 Application Profile for CS-W 2.0"	Update	
Specifications for GeoPortal.Bund	Update	
EUREF Publication No. 1 – 13	Update	

[Register a new document](#)

Register Projects

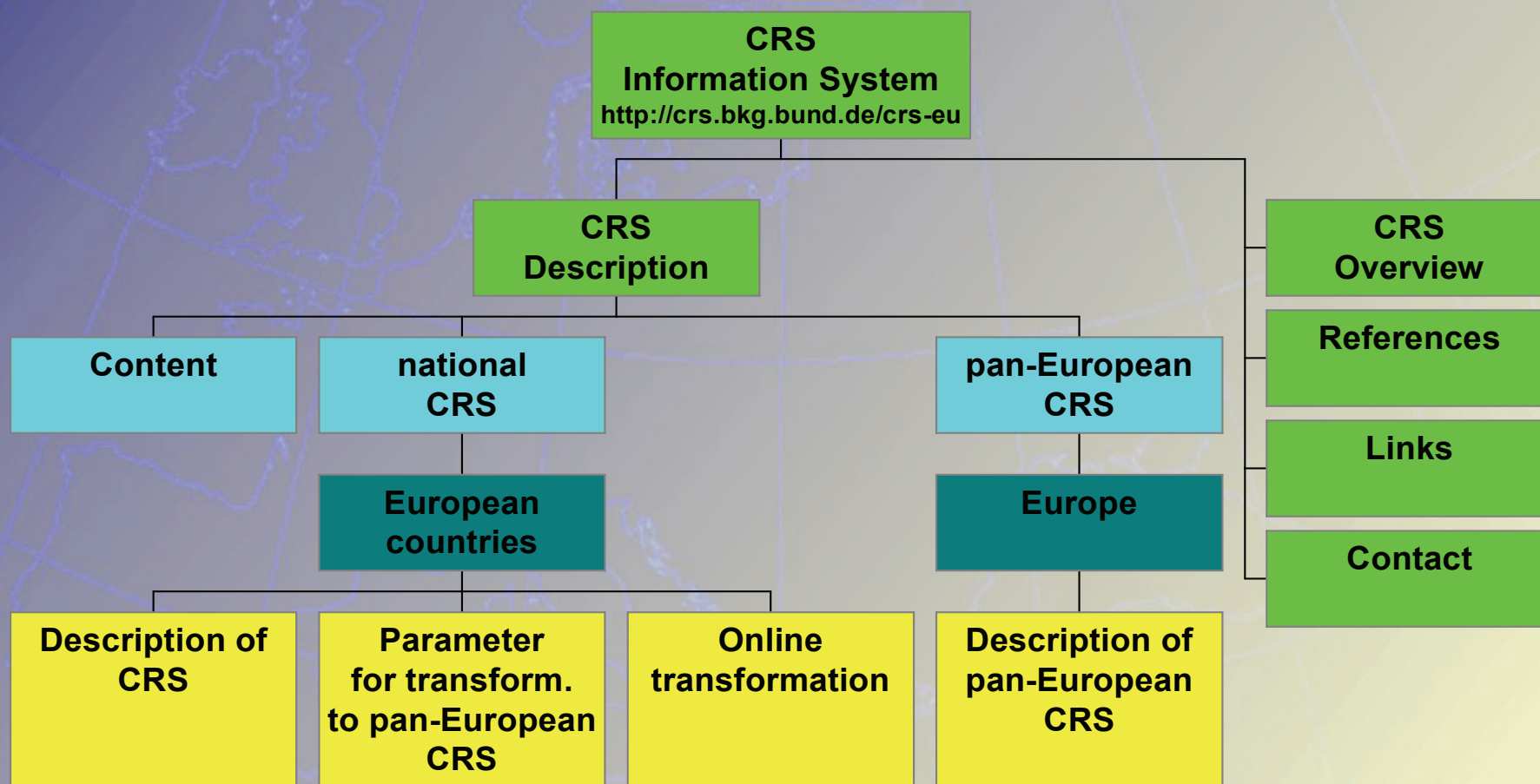
**Nomination from
BKG:**

**Heinz Habrich
for Geodesy**

**In agreement with
EUREF and
ExGG/EG**

Coordinate Reference System (CRS) Information system (CRS-EU)

Structure



New future topics

- Continuation of core projects
- Cooperation in realization of a ISO registry for geodetic codes and parameters
- Introduction of GALILEO

ISO Registry for Geodetic codes and parameters

ISO/TC 211

Geographic information/Geomatics

Basic standards:

- ISO 19111 Spatial referencing by coordinates
- ISO/TS 19127 Geodetic codes and parameters
- ISO 19135 Procedures for Registration of items of geographic information

Time table:

- First Call (N1752) from 2004-12-08
- Response to 1752 by BKG (N1774) from 2005-03-07
- Response to 1752 by EPSG (N1775) from 2005-03-07
- Position document for 2. Call (N1893) from 2005-12-08
- Response of IAG to N1893 from 2005-09-12
- **Second Call for Registration Authority (N1978):
Requirements for a registry and corresponding
registration authority for ISO/TS 19127, from 2006-04-11**
- Response deadline 2. Call 2006-06-15

According to ISO/TS 19127 the ISO geodetic registry network is defined as:

- a) the ISO register of geodetic registers. This principal register holds a set of items that describe the subregisters described in b) and c);**
- b) the ISO register of geodetic codes and parameters. This sub-register shall contain coordinate reference system data and coordinate transformation data that conform to ISO 19111.**
- c) external sub-registers of geodetic codes and parameters. These sub-registers shall contain coordinate reference system data and coordinate transformation data that conform to ISO 19111.**

Organization of the registration process – the international committee

ISO/TC211 obviously want to establish an authoritative geodetic registry network.

At the same time is a need to establish a construct that can evaluate and accept global, regional and national systems to be entered into the ISO registers.

The international committee shall comprise both international and national capacities either directly or by contact points in appropriate external environments.

The mandate for this committee would be to receive items to be registered, check proposals against the standard and accept/reject the proposal.

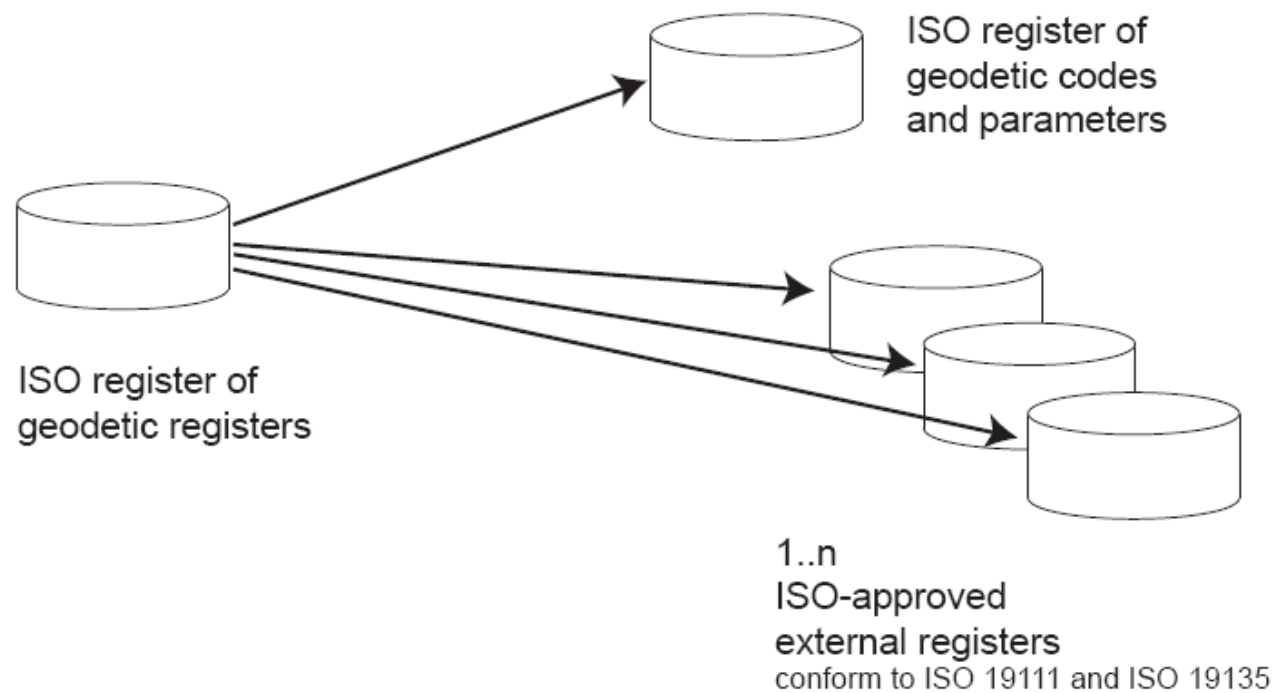


Figure 1 — The ISO geodetic registry network

Info: Dr. Johannes Ihde, IAG, Class A Liaison to ISO/TC211
 Prof. Markus Rothacher, Chair, GGOS Project
 Prof. Hermann Drewes, President, IAG Commission 1

RE: Response to document ISO/TC 211 N 1893, Requirements for a registry and corresponding registration authority for ISO/TS 19127, Geographic information – Geodetic codes and parameters dated 2005-08-29

Dear Olaf Østensen,

IAG is prepared to chair the ISO geodetic codes and parameters registration committee, if ISO/TC211 offers this responsibility to IAG. Furthermore IAG can organize contributions in the form of information and data to the ISO register of geodetic codes and parameters via its scientific Commissions and Services. IAG is an authoritative scientific organization for the definition and realization of global and regional terrestrial reference systems (coordinate reference systems) with an international membership and is able to make this contribution.

The central IAG Project Global Geodetic Observing System combines and integrates the IAG activities and promotes geodesy in science, application and society. GGOS has applied for membership in IGOS-P (Integrated Global Observing Strategy). IAG participates in the ad hoc Group on Earth Observations (GEO). That will also help in this task.

The IAG regional sub-commissions (SC1.3a Europe (EUREF), SC1.3b South and Central America (SIRGAS), SC1.3c North America (NAREF), SC1.3d Africa (AFREF), SC1.3e South-East Asia and Pacific, SC1.3f Antarctica (SCAR)) can make the contact to the regional and national partner organizations and agencies using their well established contacts.

We wish you all the best for the Montréal Plenary next week and IAG is looking forward to a future cooperation.

Sincerely yours

Gerhard Beutler, President IAG
 Christian Tscherning, Secretary General, IAG

 **This call makes a request for**

an organization that take the responsibility to operate the ISO register for geodetic codes and parameters in accordance with ISO/TS 19127 and ISO 19135 and guided by this call.

The offer shall include both the daily operation of the system including web based user interface and appropriate web services, with instructions from the international committee.

The responding organization shall take the responsibility for the availability of a technical solution and its maintenance during the contracted period. The quality of the service shall be in compliance with normal internet expectation.

Today BKG and EPSG responds for a ISO registry for geodetic for codes and parameters and for registration authority.