

National Authority Files

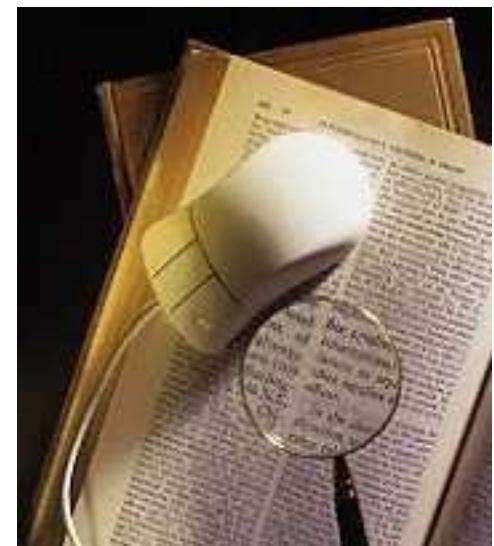
Building the A-M-L Interoperability in the Czech Republic

David Cigánek

2008 Annual Conference of CIDOC

Athens, September 15-18, 2008

*** reworked for LIT delegation, 21.9.2010***



art



botany



ethnology



art

W. Carnier
H. Carnier
Laarsen
Lambert
F. Gilbert
C. Carlo
O. Halm
Carlo de Mary
L. van Howe
R. Jäger
M. Heger
Hobart
Holmstedt
Lundberg
F. Rodek
J. Rollin
F. Marchant
C. Marchand
C. Poul

botany



ethnology

Karl Kaufmann (1843 - 1901)



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J. Rollin
F. Marchant
C. Marchand
C. Poul

Karl Kaufmann (1843 - 1901)

botany

Carex polyphylla auct.
Carex guestphalica
Carex guestphalica (Rchb.) O. F. Lang
Vinea divulsa subsp. *leersiana* (Rauschert) Dostál
Carex leersiana Rauschert

Gray Sedge

ethnology



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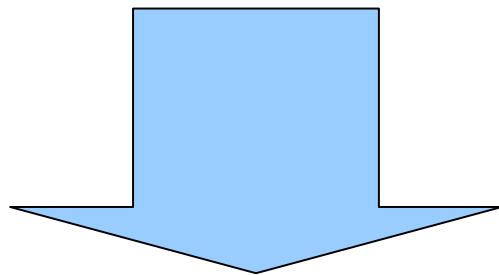
binovačka, vinovačka, dynovačka, hodovačka,
houdovačka, koleda, karabáč, korbáč, kyčka,
kyčkovanka, mrskačka, mrskanda, mrskot, mrskut,
mrskút, pamihod, pomihod, pomrhod, sekačka,
šlahačka, šlehačka, šmekúrst, šmekustr, šmerkous,
šmerkust, šmigrust, šmigrust, šmykustr, tatar,
tatarec, březové metličky, čugár, dingus, kančúch,
metla, mrzkouz, roučačka, švihačka, šihačka,
šíhota, žíla, žila

pomlázka

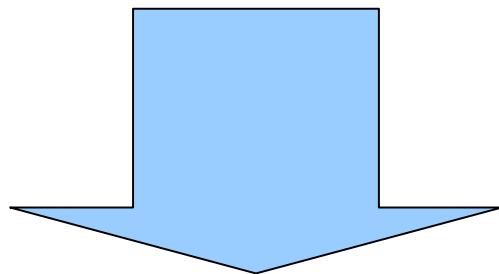
Karl Kaufmann (1843 - 1901)

problems

non-unified and uncoordinated entry of descriptive terms



transfer of errors & duplications into collection registries,
accumulation of doubts and uncertainties



problematic retrieval of data,
inaccessibility of „dead records“

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binovačka, vinovačka, dynovačka, hodovačka,
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šíhota, žíla, žila

pomlázka

Karl Kaufmann (1843 - 1901)

art

dictionary (thesaurus, index)
of artists, personalities

personal authority

botany

Carex polyphylla auct.

Carex guestphalica

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pomlážka

art

dictionary (thesaurus, index)
of artists, personalities

personal authority

botany

dictionary (thesaurus, index) of biologic species

taxonomic authority

ethnology

binovačka, vinovačka, dynovačka, hodovačka,
houdovačka, koleda, karabáč, korbáč, kyčka,
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šíhota, žíla, žila

pomlázka

art

dictionary (thesaurus, index)
of artists, personalities

personal authority

botany

dictionary (thesaurus, index) of biologic species

taxonomic authority

ethnology

dictionary (thesaurus, index) of systematic names

terminological authority

art

botany

personal authority:

e.g. **ULAN**
(Union List of Artist Names)

by Getty Foundation

taxonomic authority:

e.g. **IPNI** (International Plant Names Index)

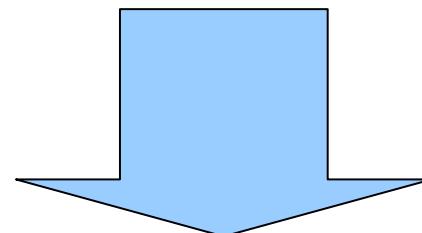
by IPNI.org

ethnology

terminological authority

yet no standard terminology for Czech ethnology !

- .centrally controlled vocabularies = authority files,
- .authority files are maintained on national level (most humanities) or internationally (natural sciences),
- .controlled vocabularies facilitate the entry of well defined terms (profit for data submitters) as well as retrieval of databases (profit for all users),
- .authority files can be accessible to everybody, everywhere, everytimes and in real-time actualised version,
- .users of authority files can cooperate on their creation – shared authorities,
- .essential role play the authority files in libraries – coordinated work headed by national libraries,
- .museum conditions seem to be more „spreading“ (many different documentation practices), coordination mostly on the level of 19th century (oral recommendations, printed indexes and vocabularies),



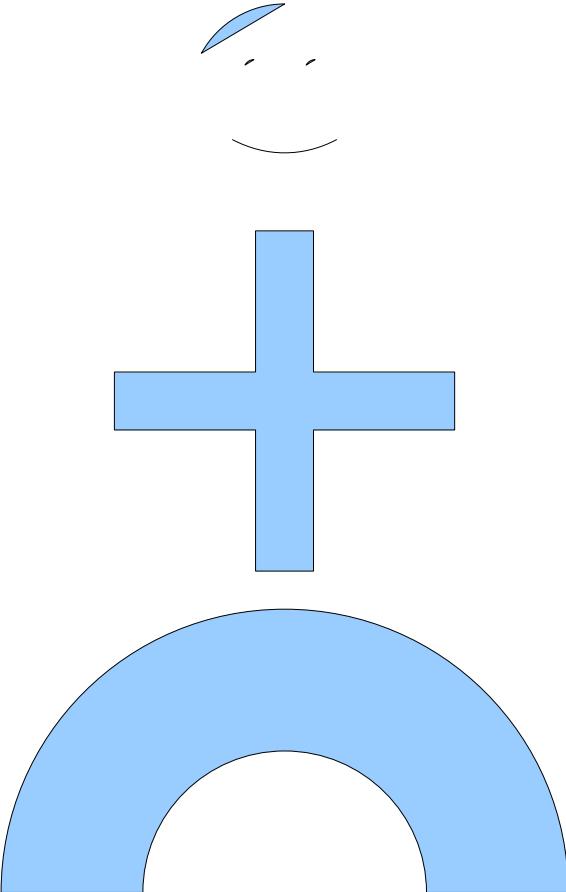
we need a model of creation and discovery of authority files for museums



WIKIPEDIA
The Free Encyclopedia

http://en.wikipedia.org/wiki/Authority_control

„essence of authority files“



Heading

refers to the form of name (or title) that the cataloguer has chosen as the authorized form.

Cross references

are other forms of the name (or title) that might appear in the catalog. There are two types of cross-references: see references, which reference forms of the name (or title) that have been deprecated in favor of the authorized form; and see also references, which point to other forms of the name (or title) that are authorized. See also references are most commonly used to point to earlier or later forms of a name (or title).

Statement(s) of justification

In addition to providing a heading and applicable references, a valid authority record should also contain a reference to whatever sources of information the cataloguer used to determine both the authorized and any deprecated forms of the name. This is usually done by citing the title and publication date of the source, the location of the name (or title) on that source, and the form in which it appears on that source.

All that is undoubtfully needed for museum and archival purposes too !

<http://authorities.loc.gov>

[The Library of Congress](#)



LIBRARY OF CONGRESS AUTHORITIES

Using *Library of Congress Authorities*, you can browse and view authority headings for Subject, Name, Title and Name/Title combinations; and download authority records in MARC format for use in a local library system. This service is offered free of charge.

The authorities online catalog has been upgraded [May 19, 2008]

>> [**Search Authorities**](#) <<

[Help on Searching Authorities - Frequently Asked Questions](#)

If you have questions or comments, please send us feedback using our [Help Desk](#) page.

or switch to the

>> [**Library of Congress Online Catalog**](#) <<

to search for and display catalog records for the over 12 million books and other items in the collections of the Library of Congress.



Help New Search Search History Headings List Start Over

Previous Next

MARC Display Labelled Display

LC Control Number: n 79109333

HEADING: Linné, Carl von, 1707-1778

000 01186cz a2200277n 450

001 3756795

005 20071214063205.0

008 800528n| acannaab |a aaa

010 _ |a n 79109333 |z n 85016351

035 _ |a (Uk)000420168

040 _ |a DLC |c DLC |d DLC |d ICU |d ICU |d DLC |d Uk

100 1_ |a Linné, Carl von, |d 1707-1778

400 1_ |a Linnaeus, Carl, |d 1707-1778

400 1_ |a Linneï, Karl, |d 1707-1778

400 1_ |a Linnaeus, Carolus, |d 1707-1778

400 1_ |a Von Linné, Carl, |d 1707-1778

400 1_ |a Linnaeus, C., |d 1707-1778

400 1_ |a Linneus, |c Professor |q (Carl), |d 1707-1778

400 1_ |a Linné, Carolus a, |d 1707-1778

400 1_ |a Linné, Charles, |d 1707-1778

670 _ |a LCCN 66-9151: His Philosophia botanica, 1966 |b (hdg.: Linné, Carl von, 1707-1778; variant: C. Linnaeus)

670 _ |a LCCN 05-36993: His A system of vegetables, 1783 |b (hdg.: Linné, Carl von, 1707-1778; usage: the late Professor Linneus)

670 _ |a Vandelli, D. Flora Lusitanicae et Brasiliensis specimen, 1788: |b t.p. (... Carolo a Linné) p. 73 (Car. Linnaeus)

670 _ |a Système sexuel de végétaux, 1798: |b t.p. (Charles Linné)

952 _ |a RETRO

953 _ |a xx00 |b vj90

Previous Next

Save, Print or Email Records ([View Help](#))

Select Download Format:

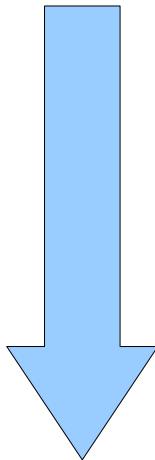
Email Text (Labelled Display) to:

MARC standards family

- * MARC 21: the "harmonization" of USMARC and CAN/MARC; it is maintained by the Network Development and MARC Standards Office of the Library of Congress.
- * ~~AUSMARC: national MARC of Australia, published by the National Library of Australia in 1973; USMARC adopted in 1991~~
- * BIBSYS-MARC: used by all Norwegian University Libraries, the National Library, all college libraries, and a number of research libraries.
- * NORMARC: national MARC of Norway, based on MARC21
- * danMARC2: national MARC of Denmark, based on MARC21
- * FINMARC: national MARC of Finland
- * SWEMARC: national MARC of Sweden
- * INTERMARC: MARC used by Bibliothèque nationale de France
- * UNIMARC: created by IFLA in 1977, it is the official MARC in France, Italy, Russia, Portugal, Greece and other countries.
- * CMARC: national MARC of the Republic of China(Taiwan), based on UNIMARC
- * KORMARC: national MARC of South Korea, KS X 6006
- * MARCBN: national MARC of Poland, based on MARC21
- * IDSMARC: (inter)national MARC of Swiss German University Libraries, Luxembourg, Liechtenstein, based on MARC21

implementation strategies

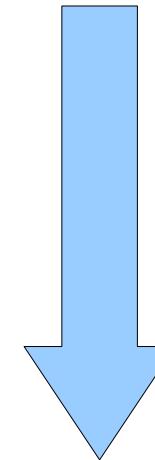
minimalistic



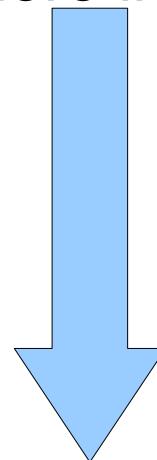
simple adoption of
existing librarian facility

nothing special for
museums and archives.

maximalistic



or
somewhere inbetween



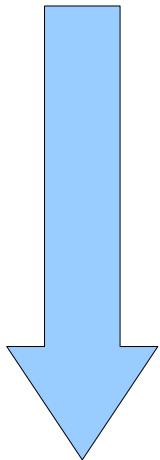
?

major improvements
and adjustments

parallel authority
database for museum
and archival purpose.

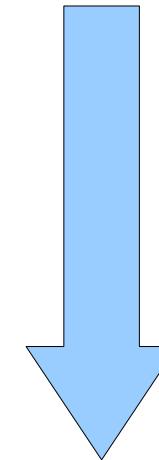
which way ?

minimalistic



- + quick and inexpensive implementation
- + full compatibility
- painful adoption of MARC standards
- unattractiveness for museum people

maximalistic



- + „long distance run“
- + problematic connection to already existing librarian facility
- + possibility of the real A-M-L knowledge base building
- danger of inadequate systém design
- need for own team of supervisors

CIDOC CRM & authority files

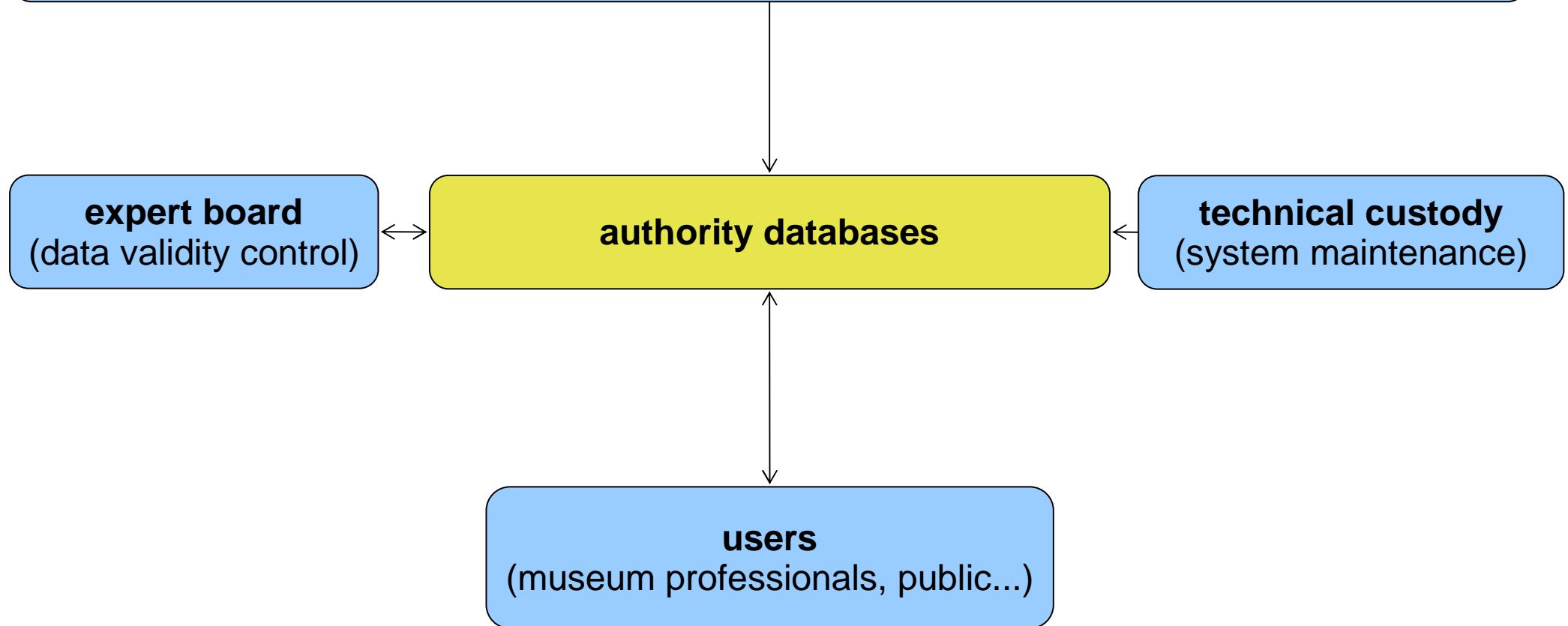
The CIDOC Conceptual Reference Model (CRM) provides the extensible ontology for concepts and information in cultural heritage and museum documentation.

It is the international standard (ISO 21127:2006) for the controlled exchange of cultural heritage information.

Archives, libraries, museums, and other cultural institutions are encouraged to use the CIDOC CRM to enhance accessibility to museum-related information and knowledge.

(*wikipedia.org*)

administrator of national authority files
(National Library of the Czech Republic)



administrator of national authority files
(National Library of the Czech Republic)

expert board
(data validity control)

authority databases

technical custody
(system maintenance)

expert board
(data validity control)

“museum authority files”

technical custody
(system maintenance)

users
(museum professionals, public...)

museum authority interlayer – why ?

.limited capacity of librarians' authority system,

now:

64 libraries cooperating on N.A.

near future:

64 libraries cooperating on N.A.

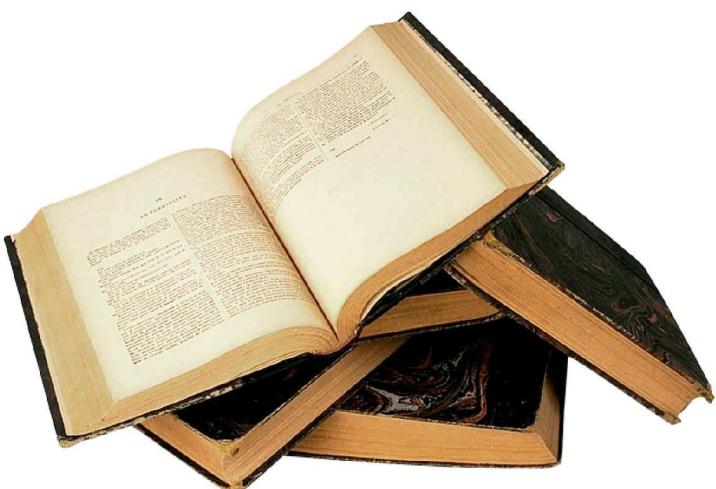
+ ~30 others (newly connected)

+ ~50 museums & galleries

museum authority interlayer – why ?

- .limited capacity of librarians' authority system,
- .specific standards,

author name
bibliographic data
title
publisher
date of publishing
pages
size



LDR ----nam-a22-----a-4500
FMT BK
001 zpk19990733835
003 CZ-PrNK
005 20030715161453.0
007 tu
008 990930s1994----xxk----d-----000-j-eng--
020 |a 0-14-062100-8 (brož.)
040 |a ABA001 |b cze
072 7 |a 821.111-3 |x Anglická próza, anglicky psaná |2 Konspekt |9 11
080 |a 821.111-32 |2 MRF
1001 |a Doyle, Arthur Conan, |c Sir, |d 1859-1930 |7 jn19990001842 |4 aut
24514 |a The adventures of Sherlock Holmes / |c Arthur Conan Doyle
260 |a London : |b Penguin Books, |c 1994
300 |a 302 s. ; |c 18 cm
440 0 |a Penguin popular classics
655 7 |a detektivní povídky |2 czenas
655 7 |a anglické povídky |2 czenas
SYS 000733835

museum authority interlayer – why ?

- .limited capacity of librarians' authority system,
- .specific standards,



author name	Emil Sláma
bibliographic data	*1950
title	„Woman with child“
publisher	?
date of publishing	?
pages	?
size	38 cm

museum authority interlayer – why ?

- .limited capacity of librarians' authority system,
- .specific standards,



author name	?
bibliographic data	?
title	?
publisher	?
date of publishing	?
pages	?
size	17 cm

museum authority interlayer – why ?

- .limited capacity of librarians' authority system,
- .specific standards,
- .different concepts of work on authority files



LC Control Number: n 84003035

Cancel/Invalid LCCN:

n 94020837

HEADING: Atkinson, Rowan

Used For/See From: ~~Atkinson, Rowan~~

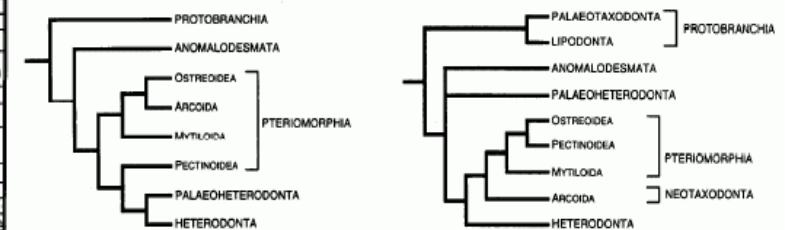
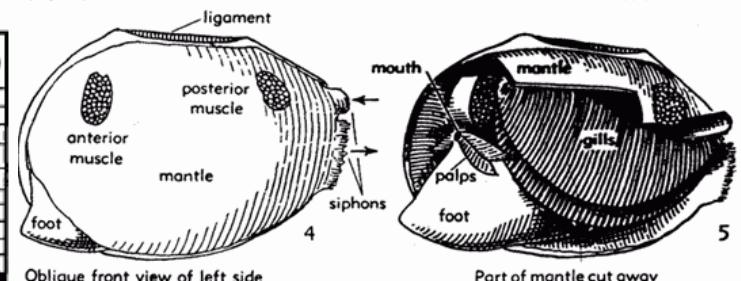
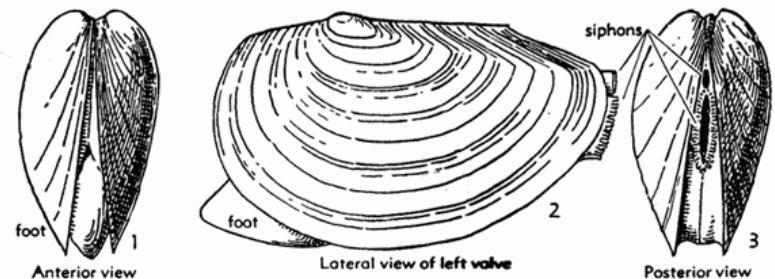
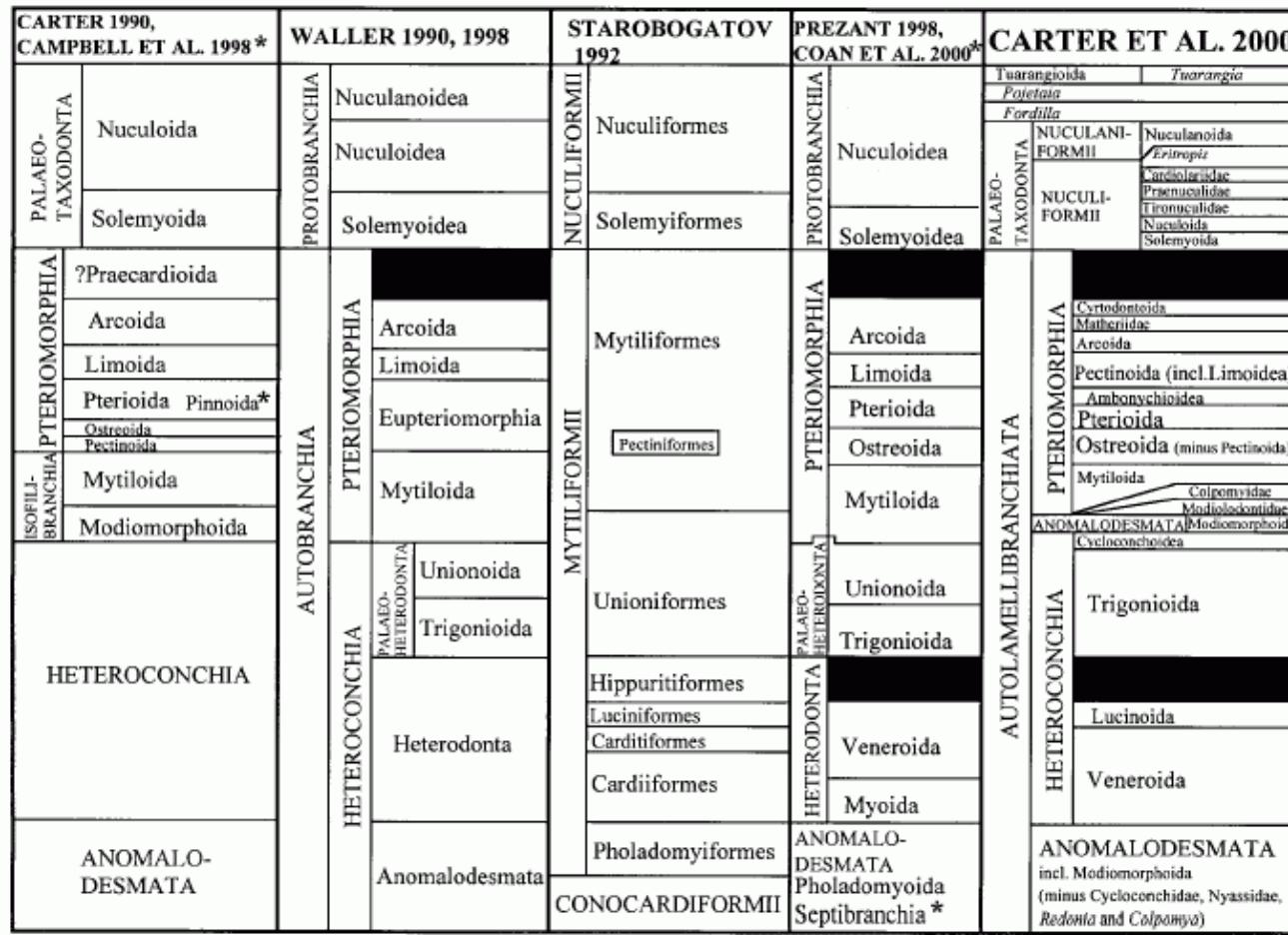
Found In: Hughes, T. Tom Brown's school days [SR] p1981, i.e. p1982:

label (Rowan Atkinson) container (Rowan Atkinson)

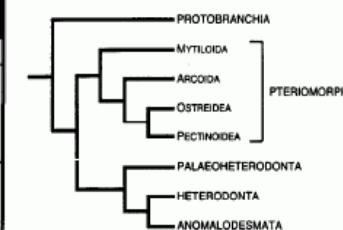
Intl. motion picture almanac, 1997 (~~Atkinson, Rowan~~, b. Jan. 6, 1955;
actor, writer; star of Blackadder, ~~Mr. Bean~~, etc.)

museum authority interlayer – why ?

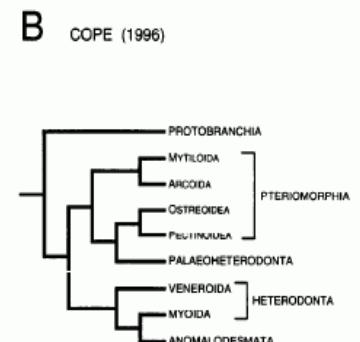
- .limited capacity of librarians' authority system,
 - .specific standards,
 - .different concepts of work on authority files



A STAROBOGATOV (1992)



C WALLER (1997)



MORTON (1996)

museum authority interlayer – how ?

- .copy of librarian´s authority layer + additional fields for museum purposes
- .all in MARC21...
-but mapped to CIDOC-CRM

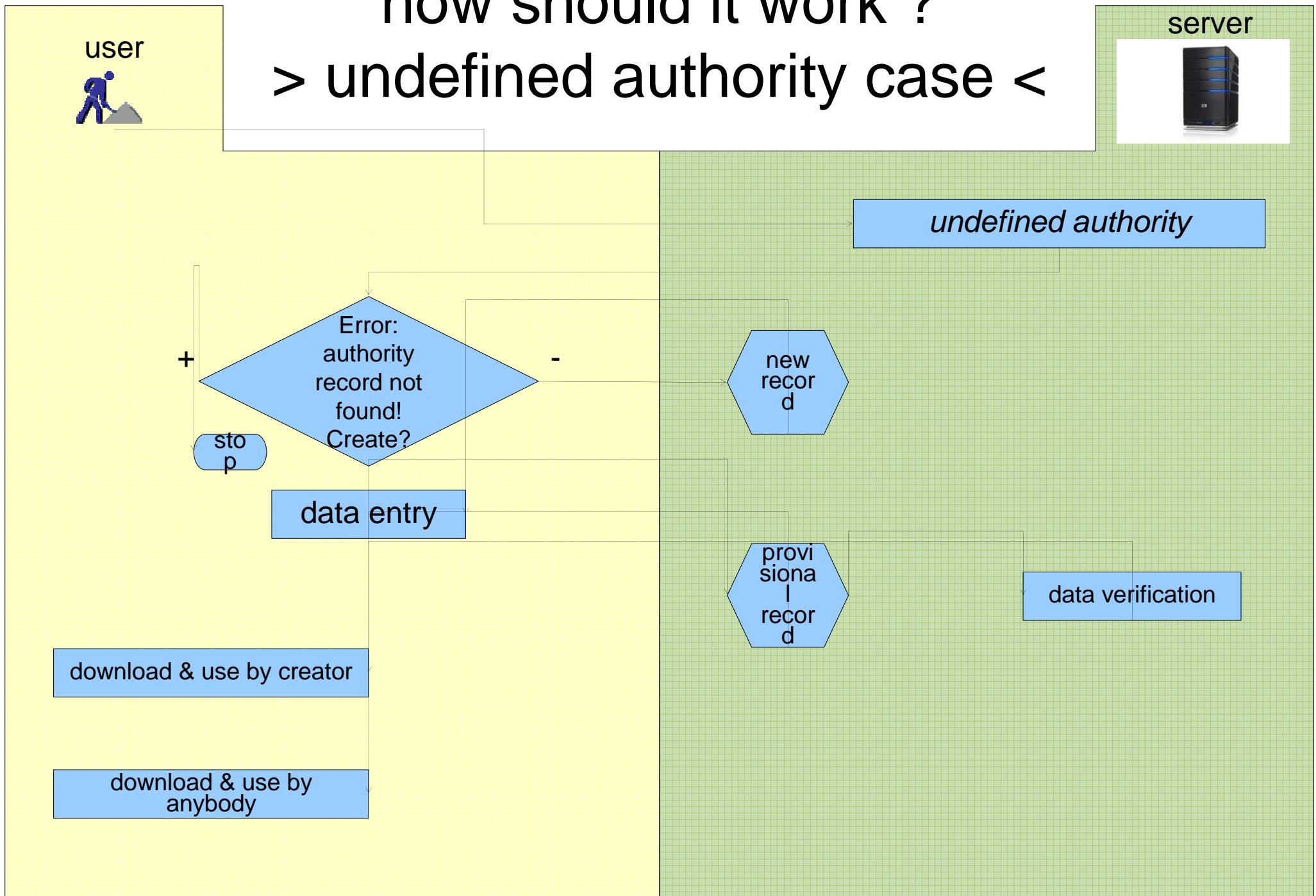
already done (2007-10):

- ✓non-formal group of museum specialists established (15 experts from different types of museums & galleries, many specializations)
- ✓review of vocabularies and thesauri in use (major Czech CMS´s: Demus, BACH)
- ✓review of potential sources of data, international databases
- ✓cleaning of terminology, formulation of basic principles, system architecture sketch for museum interlayer
- ✓analysis of standards - MARC21, AACR2, CCO, ISAAR (CPF)
- ✓definition of “museum authority” structure for personal authorities, creating of the database
- ✓successful experiments in communication between CMS Demus and authority files
- ✓web client interface for on-line work on museum authority files
- ✓collaboration with Czech archivists

Personal Authorities - mapping to CIDOC CRM

how should it work ?

> undefined authority case <



to do (2010-2011)

- .definition of “museum authority” structure for corporative, geographic, (...) authorities
- .analysis of terminological authorities (hundreds of museum people, thousands of opinions)
- .continual cooperation with archivists
- .establishing of expert boards coordinating terminological authorities (based on already existing teams)
- .verification of mapping to CIDOC CRM (ISO 21127:2006)
- .continue with pilot testing which should continuously graduate to the regular use of MA
- .publication of museum interlayer structure in XML form
- .sustainability after the end of pilot project



extended structure of personal authority record

(brief „demo version“ for popularisation purposes, exhaustive specification will follow in XML form)

Museum authority files directly tie together with authority system used in libraries (NA ČR = National Authority Files of Czech Republic, <http://autority.nkp.cz>). They can be regarded as their extension or functional overlay.

Authority records are created for personal names, corporative names, geographic names, names of factual concepts. Record contains namely preferred form of the name/appellation/term (so called „heading“) and usually alternative, nonpreferred forms of it too. Links to the other records about entities related anyway (superior, inferior ...) can also be accommodated in the authority record.

Bold = recommended minimum data fields

Black = data fields adopted from authority system of National Library

Blue = new data fields creating the museum overlay

original (librarian) fields

Personal name is always accompanied with the year of birth and death (if known). Each data field (except auxiliary fields and the heading) includes the linkage to the source citation. It can also hold the signature (sigla) of information administrator – the field is unaccessible to the others in this case.

Heading = personal name (plus the year of birth and death)

Other form of name = personal name (plus the year of birth and death) and language, repeatable

Related person = personal name (plus the year of birth and death) and the link to the authority record of other person, repeatable.

Biographic data – usually exact date & place of birth, date & place of death, other brief biographic info

Public remark, repeatable

Private remark, repeatable

Source citation, repeatable, each source only once, other data linked via index number

Electronic source of other information (e.g. photo, Wikipedia entry, personal webpage...), repeatable

Auxiliar technical data, e.g. Record ID, statements for changes tracing ...

extended structure of personal authority record

(brief „demo version“ for popularisation purposes, exhaustive specification will follow in XML form)

Bold = recommended minimum data fields

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Blue = new data fields creating the museum overlay

extension fields

New fields designed and added to satisfy needs of museum documentation. Such extended structure seems to be acceptable to archivists too.

Predicates before/behind the name, repeatable

Personal profile = (Text + Author + Purpose + Language), repeatable, (one neutral profile, others according to intended purpose)

Keyword, of two categories: profession (painter, sculptor, geologist ...), style (*impresionism, neodarwinism* ...), repeatable

Nationality, repeatable

Sex

Event, repeatable, (auxiliary item interconnecting Datation, Localisation, Person, Corporation and Work. According to the type of Event (birth, death, study, affiliation to some group, creation of the work...), only certain types can occur.

Datation of the event – one datation to each event, contains datation in display form (e.g. „Christmas 1932“), starting date (yyyymmdd) and ending date (yyyymmdd).

Localisation of the event, repeatable, contains the geographic name and the link to the authority record of this geographic name.

Person interconnected with the event, repeatable, contains the role in the event, personal name (plus the year of birth and death) and the link to authority record of the person.

Corporation interconnected with the event (college, employer, group...), repeatable, contains the role in the event, name of the corporation and the link to authority record of the corporation.

Work interconnected with the event, repeatable, contains the role of the person (inventor, founder, author ...), personal name (plus the year of birth and death), work title and the link to authority record of the work.

M08 Predicates

a

Predicate prior to the name ∞

„prof.“

b

Predicate behind the name ∞

„PhD.“

M08 Personal profile ∞



a Text

Alfred Bernhard Nobel, född 21 oktober 1833 i Stockholm, död 10 december 1896 i San Remo i Ligurien i Italien, var en svensk kemist, uppfinnare av dynamiten, industrialist, donator och stiftare av Nobelpriiset. Alfred Nobel var mångsidigt begåvad, hade stor arbetsförmåga och fast tro på mänskligetens utveckling genom fredlig kamp med naturens krafter. Hans upfinningar banade ny väg på flera områden. Hans testamente har gjort Sverige berömt i hela...

b Author ∞

collective work

c Purpose ∞

*wikipedia article
personal authority extension*

d Language ∞

*sv
en*



C03 Keyword ∞



i1 Category

profese

a Key ∞

*dramatik
prezident Československé republiky
prezident České republiky*

I Language ∞

cs



M09 Nationality ∞



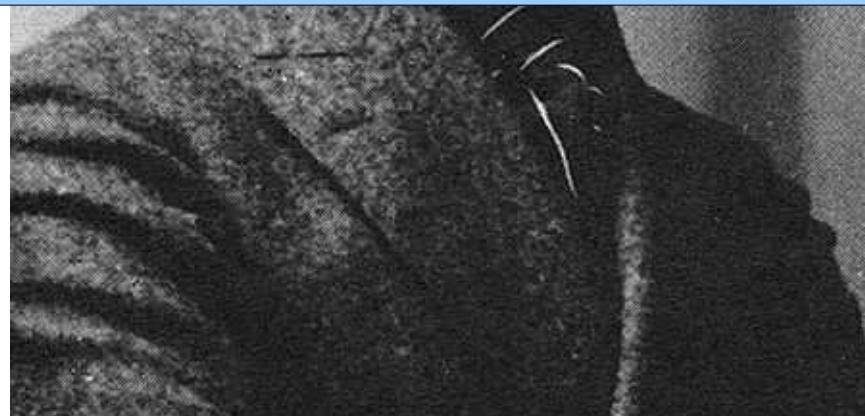
a **Nationality**

i **Remark ∞**

Living in Prague – Austria-Hungary, presently the capital of Czech Republic.

Jewish origin.

Speaking German, Czech, French. Started to learn Hebrew, but he never became proficient in the language



M11 Sex ∞

a **Sex**

female

Mianne Bagger, *Danish - Australian golf player*

1966 – 1992 man

1992 – woman



Image: Brendan James

M90 Event ∞

9 ID

[for linking Event to Datation, Localisation, Person, Corporation, Work]

a Type

*birth
death
study
membership
sailing
...*

7 Reference to Type authority record

[ID of respective authority record]

i Remark

M91 Datation ∞

9.1 ID

[backlink to Event]

9.2 Type

P81 [CIDOC CRM property]

i Accuracy, validity

exact date

estimate of most experts (except R. Casey)

a Display form

Christmas 1932

second half of 17th century

b Interval start

[yyyyymmdd]

c Interval end

[yyyyymmdd]

M551 Localisation ∞

9.1 ID

[backlink to Event]

9.2 Type

P81 [CIDOC CRM property]

i Accuracy, validity

according to voyager's map
from GPS

a Geographic name

Southeastern Mediterranean
Paris [TX], USA
HMS Bounty

b Reference to Geographic name authority record

[ID of respective authority record – if exists]

M500 Personality connected to the Event

9.1 ID

[backlink to Event]

9.2 Type

P11 [CIDOC CRM property]

i Role

ship passenger

a Personal name

Darwin, Charles

d Biographic data

1809-1882

corporative authority files

Very similar to the personal authority files, but with some smaller differences:

- .librarians use the corporative authorities also for description of actions (wow, smart!)
- .few (sub)fields for accomodation of datation established

„temporal corporation“ authority record

LDR ----cz--a22----n--4500

FMT VA

001 ph237445

003 CZ-PrNK

005 20070604133801.0

008 040515|n|anznnbabn-----n-a|a-----

040 |a ABA001 |b cze |d ABA001

072 7 |a 94(73) |x Dějiny Spojených států amerických |2 Konspekt |9 8

072 7 |a 355/359 |x Vojenství. Obrana země. Ozbrojené síly |2 Konspekt |9 15

089 |a 94(73)"1861/1865" |c dějiny |d history

089 |a 355.483(73)"1861/1865" |c vojenství |d military science

150 |a americká občanská válka, 1861-1865

450 |a občanská válka v USA, 1861-1865 |0 o

450 |a válka Severu proti Jihu, 1861-1865 |0 o

5501 |w h |a Antietam, bitva, 1862

5501 |w h |a Appomatox, bitva, 1865

5501 |w h |a Chancellorsville, bitva, 1862

5501 |w h |a Chickamauga, bitva, 1863

5501 |w h |a Fair Oaks, bitva, 1862

5501 |w h |a Fredericksburg, bitva, 1862

5501 |w h |a Gettysburg, bitva, 1863

5501 |w h |a Hampton Roads, bitva, 1862

5501 |w h |a Manassas 1., bitva, 1861

5501 |w h |a Manassas 2., bitva, 1862

5501 |w h |a Richmond, bitva, 1862

5501 |w h |a Shiloh, bitva, 1862

5501 |w h |a Vicksburg, bitva, 1863

5509 |w g |a občanské války

75007 |a American civil war, 1861-1865 |2 eczenas

906 |a wp20040518 |b maba

906 |a wu20050523 |b jave

906 |a wu20050606 |b jave

906 |a wu20060622 |b miry

SYS 000237445

geographic authority files

Serious problems with exact description of geographic entities:

- .How to describe differently shaped objects?
- .What about geographic objects changing in time?

Surtsey,
1963



Caspian Sea,
recently

Sweden, 1658



geographic authority files

Serious problems with exact description of geographic entities:

- .How to describe differently shaped objects?
- .What about geographic objects changing in time?
- .Different accuracy !