



GLOBAL BIODIVERSITY INFORMATION FACILITY



Naturhistoriska
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UNITED NATIONS
International Year of Biodiversity



2010 International Year of Biodiversity

Biodiversity is life
Biodiversity is our life

www.gbif.se: Connecting Swedish scientific collections and observational biodiversity databases for free and open access

Anders Telenius / The Swedish Museum of Natural History



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Background:

- GBIF In Sweden since 2001
- At SMNH since 2003
- Cost defrayed by the Swedish Research Council (VR), the Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (FORMAS), and SMNH (several project headings)
- GBIF for: Academia – Authorities – The public
- Starting in 2003: Inventory – Coordination/Digitizing



GBIF-Sweden Organization at SMNH 2007-2011:

- Project leader (30% of full time)
- Secretary (25%)
- Node Manager (100%)
- Programming (100)
- Support (ext. 100%)
= **640** days/yr (**540** days/yr excl. p/l + secr.)
- In theory – and until 2009, but...



GBIF-Sweden Organization at SMNH 2009-2010:

- ...in reality in 2009-2010:
- Project leader (30%)
- Secretary (25%)
- Node Manager (c. 60-80%)
- Programming (c. 60-80%)
- Support (ext. 50%)
= c. **400+** days/yr (**340+** days/yr excl. p/l + secr.)



Ambition and achievement 1

- Early 2008: 70% of digitalised scientific coll. available
- Early 2009: 80% of digitalised scientific coll. available
- Early 2010: All digitalised scientific coll. available
- Early 2010: 50% of all biological databases available
- Early 2011: 70% of all biological databases available
- Late 2011: All biological databases available

Comment: Less material digitalised than promised. Hence less material delivered than expected. *Remedy:* Automatic updates, web-services, iterated contacts with collections.



Ambition and achievement 1: early 2009

Date	Spms	Spms Digitized	% Spms Digitized	Objects	Objects Digitized	% Objects Digitized	Objects in GBIF*	% Objects in GBIF	Collections	Collections in GBIF
Feb-09**	39482561	5441595	13.8	30779506	3227856	10.5	1934110	59.9	65	26
Jan-09	39577580	5456114	13.8	30874525	3242375	10.5	1520239	46.9	69	31
Dec-07	39261169	5381664	13.7	28143660	2881567	10.2	1303338	45.2	72	24
Mar-06	48855794	3477577	7.1	29106317	1485552	5.1	636965	42.9	70	15
Oct-05	***	***	***	25447720	1986763	7.8	***	***	61	***

* Pipeline: 475515 objects → altogether 75%

** Added "NRM Fanerogambotaniik"; compilation of five collections

*** N/A



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What is ENSE?

National Standard for Natural Science Collection Databases: a set of 78 standardized norms pertaining to transactions, collections, spatial data, and taxonomy. Evolved and produced in collaboration between representatives from the major Swedish Natural Science collections



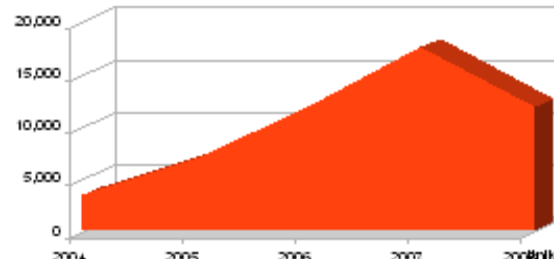
Ambition and achievement 3

- National Internet portal (in Swedish) working, offering tables, distribution maps, links, news

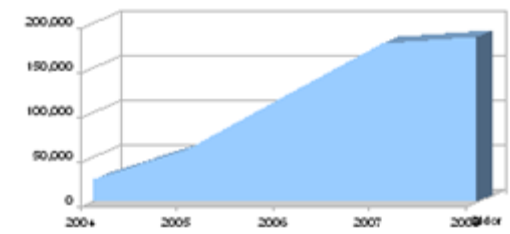
Visitors



Unique visitors



Pages visited



Comment: Not the full last year but probably levelling off. No explanation given.
Remedy: More functions added. Education of users. Stockholm Biodiversity Informatics Symposium (fall 2008).



Ambition and achievement 4

- Swedish (and other) scientists should use GBIF data

		Nedladdningar	Nedladdningar	I database	I databaser
Data resource	Event	Event count	Number of records re	SpmRecs	ObsRecs
Fishes (NRM)	Usage - occurrence	5174	161944867	48548	
Nordic Herbarium (S)	Usage - occurrence	2080	549490	96491	
Invertebrates (GBIF-SE:SMNH)	Usage - occurrence	2626	728445	88862	
Herpetology (NRM)	Usage - occurrence	967	7953	4560	
Pteridophytes (S)	Usage - occurrence	615	149	16673	
Fungi (S)	Usage - occurrence		401	127186	
Algae (S)	Usage - occurrence		29	3684	
Mosses (S)	Usage - occurrence		17	115739	
Mammals (NRM)	Usage - occurrence		155481	22263	
Porpoises (NRM)	Usage - occurrence	25	4495		376
Diptera (NRM)	Usage - occurrence	44	1929	13656	
Bird Ringing Centre in Sweden	Usage - occurrence	118	651459		2939960
International Botanical Collection	Usage - occurrence	6379	392673	94067	
Lepidoptera (Specimens NRM)	Usage - occurrence	75	810	16933	
		24996	165690598	648662	2940336

SMNH data usage in 2008



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What is K-samsök?

National GBIF-equivalent for anthropological, ethnological, historical and other "K-activities" (collection databases and observations). Highly esteemed for political reasons hence useful even for GBIF although probably not significantly contributing by volume



Prioritized tasks 2

- Provision of support/staff training to decentralized collections (staff visits – long term)
- Planned actions for the development of www.gbif.se to meet with the demands of museum staff and end-users
- Clarifying the relation between GBIF-Sweden and LifeWatch as organized nationally from "ArtDatabanken"
- Increased marketing efforts



Prioritized tasks 3

- Financial support for prioritized data provider staff to participate in GBIF-related international activities
- Repeated promotional visits on data providers "home ground" AND meetings/conferences with data providers/end-users twice annually
- Promotional work in terms of popular science writing
- Enabling the use of Swedish vernacular names in search function at www.gbif.se
No less!



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Thankx!