

# E-collections: Manage and Exploit

don't just make available

*Helle Lauridsen*



ProQuest®  
Start here.

## Physical Libraries

300 BC: the library of  
Alexandria

1445: Gutenberg invents the  
printing press

1665: first issue of The  
Philosophical  
Transactions of the Royal  
Society

1870'ies the first abstracting  
indexes emerges

1960'ies Citation indexing  
is invented

## Online Libraries

- 1970'ies first on-line  
library catalogues
- 1980'ies online searching  
through dial-up becomes  
common
- 1990'ies first online full  
text
- 2000's..... E- only  
libraries the norm!

# In the year 2000

- about 1100 titles from various publishers – labelled "Foreign electronic journals"
- Aggregation package content not integrated in e-journal list
- No remote access
- No integration between databases and full text journals
- Everything handwritten and manually maintained by one person
- 14 full time persons in serials department

## Elektroniske tidsskrifter

### Udenlandske Elektroniske tidsskrifter

En alfabetisk fortegnelse over de udenlandske tidsskrifter, som Statsbiblioteket ved licensaftaler giver adgang til i elektronisk form. Der er ingen systematisk indgang til tidsskrifterne på denne liste. Vil man søge systematisk skal SOL benyttes.

Der vil i de fleste tilfælde kun være adgang fra Statsbiblioteket og Aarhus Universitet.

### Digital Article Database Service (DADS)

Adgang ved fælles søgeflade til referencer og fuldttekst til tidsskrifterne udgivet af Academic Press, American Chemical Society (ACS), Elsevier, Karger, Kluwer, MCB University Press og Springer. Indeholder i alt mere end 2000 tidsskrifter i fuld tekst.

Der gives samtidig mulighed for at søge i referencer (men ikke fuldttekst) til artikler fra baserne INSPEC (physics, electronics, and computer science), SIAM (Society for Industrial and Applied Mathematics) og Swetscan (en indholdsfortegnelse til ca. 15000 tidsskrifter).

Kun adgang fra Statsbiblioteket og Aarhus Universitet.

### EBSCO

MasterFILE Premier. Basen er meget bred i sin faglige dækning, idet den indeholder artikler vedr. handel og økonomi, kultur og uddannelse, samt naturvidenskab i almindelighed. I basen findes referencer/abstracts til mere end 3.100 tidsskrifter, hvoraf de 1.800 dækkes med den fulde tekst.

Liste over tidsskrifter optaget i EBSCO "MasterFILE Premier"

Kun adgang fra Statsbiblioteket og Aarhus Universitet.

### Social Sciences Index (Proquest)

Siden 1990 har Statsbiblioteket abonneret på værket Social Sciences Index/Fulltext (ikke at forveksle med Social Sciences Citation Index fra ISI) i cd-rom udgave. På den

samfundsvidenskabelige fagsal har det været muligt at søge artikler i et indeks og derefter for mange af tidsskrifternes vedkommende at kunne printe de ønskede artikler ud fra en image-udgave på cd-rom. Dette abonnement er nu erstattet af en web-udgave. Indholdet er næsten det samme: et index til lidt over 400 kultur- og samfundsvidenskabelige tidsskrifter tilbage fra 1986, hvoraf ca. halvdelen også findes i fuld tekst.

Liste over tidsskrifter indeholdt i Social Sciences Index.

Der er kun adgang fra Aarhus Universitet og Statsbiblioteket.

### SwetsNet

SwetsNet giver p.t. adgang til artikler i fuldttekst fra knap 2.000 tidsskrifter, som Statsbiblioteket abonnerer på i online udgaven. Endvidere gives der adgang til indholdsfortegnelsen af ialt 15.523 tidsskrifter, hvoraf Statsbiblioteket har abonnement på en del i papirudgaven.

Der vil løbende komme adgang til flere titler i elektronisk form i SwetsNet.

Der er kun adgang fra Aarhus Universitet og Statsbiblioteket.

### Danske Elektroniske Tidsskrifter

Listen giver adgang til danske elektroniske udgivelser i tidsskriftsform med løbende opdatering og redaktionelt indhold. Gælder kun tidsskrifter med gratis adgang. Der er ikke tale om pligtafleverede elektroniske tidsskrifter på denne liste. Der henvises ved pligtafleverede tidsskrifter til

<http://www.pligtaflevering.dk/>

Det er muligt at søge tidsskrifter inden for 24 emnegrupper.

- 11,000 e-journal titles
- Alphabetical as well as subject directory
- Remote access from outside Campus

Serials Solutions

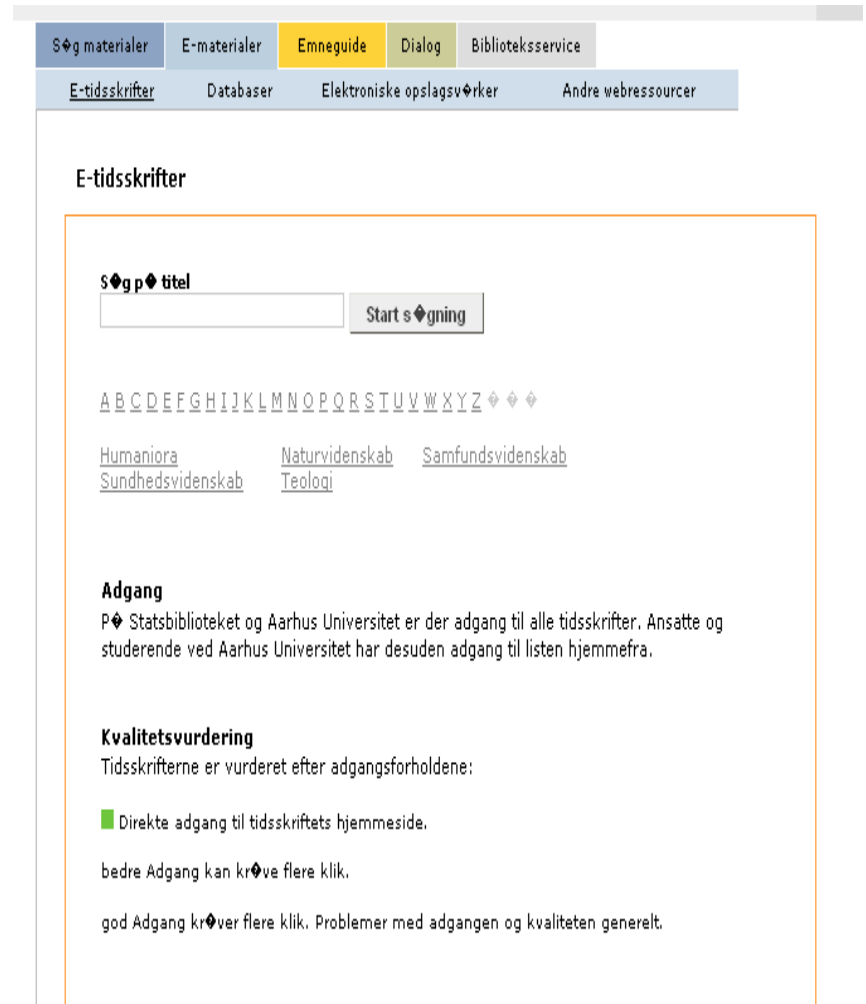
EZproxy®

Link from databases to full text

14 staff in subscriptions department  
40 kms of print subscriptions in Stacks  
5% budget decrease

ULRICH'S  
PERIODICALS DIRECTORY™

Serials Solutions



The screenshot shows the ProQuest website interface for E-journals. At the top, there is a navigation bar with tabs for 'Søg materialer', 'E-materialer', 'Emneguide', 'Dialog', and 'Biblioteksservice'. Below this, a secondary bar contains 'E-tidsskrifter', 'Databaser', 'Elektroniske opslagsværker', and 'Andre webressourcer'. The main content area is titled 'E-tidsskrifter' and features a search box with the text 'Søg på titel' and a 'Start søgning' button. Below the search box is an alphabetical index from A to Z with diamond symbols. Underneath, there are links for 'Humaniora', 'Naturvidenskab', 'Samfundsvidenskab', 'Sundhedsvidenskab', and 'Teologi'. The 'Adgang' section states that Aarhus University has access to all journals. The 'Kvalitetsvurdering' section notes that journals are evaluated based on access conditions and provides a green checkmark indicating direct access to the journal's homepage.

# The first e-management system

e-Catalog: Database  Name Begins With

Home > Data Management > Database Details

EBSCOhost :: Professional Development Collection

- Database Details
  - General
  - Titles (524)**
  - 360 Resource Manager
    - Administration
    - Contacts
    - Cost
    - Licensing
    - Notes

Filter By: Title Begins With

Go to Page: 1 / 21

Title	Status	ISSN	Dates	Custom Dates
About Campus	Subscribed	1086-4822	01/01/1997 - 1 year ago	
Academe	Subscribed	0190-2946	01/01/2002 -	
Academic Leader	Subscribed	8750-7730	01/01/2004 - 08/31/2006	
Academic Questions	Subscribed	0895-4852	12/01/1987 - 6 months ago	
Accounting Education	Subscribed	0963-9284	03/01/1992 - 1 year ago	
Accounting Education (JAI)	Subscribed	1085-4622	07/01/1996 - 07/31/1997	
Administrator	Subscribed	0744-7078	01/01/2004 - 03/31/2005	
Adolescence	Subscribed	0001-8449	03/01/1990 -	
Adult basic education	Subscribed	1052-231X	07/01/1996 - 09/30/2006	
Adult Basic Education & Literacy Journal	Subscribed	1934-2322	03/01/2007 -	
Adult Education Quarterly	Subscribed	0741-7136	09/01/1996 -	
Adult learning	Subscribed	1045-1595	07/01/1996 -	
Adults Learning	Subscribed	0955-2308	01/01/1995 -	
African american review	Subscribed	1062-4783	03/01/1992 -	
AIDS Education & Prevention	Subscribed	0899-9546	02/01/2002 -	
Alternatives Journal	Subscribed	1205-7398	10/01/2002 -	
America	Subscribed	0002-7049	01/04/1992 -	
American historical review	Subscribed	0002-8762	02/01/1975 - 1 year ago	
American Indian & Alaska Native Mental Health Research: The Journal of the National Center	Subscribed	1533-7731	11/01/2003 -	

All collections

easy navigation

Complete title list w URLs

WELL tracked embargo dates!

Record Count: 524

- 14,000 e-journals
- 4,000 e-books
- Aggregated email alert service
- Federated search > 100 A&I databases
- Web based Reference Management system

In separate lists as well as loaded in OPAC



- 5% budget decrease
- More "big deals" requested by users than ever
- E-only official library strategy
- Campus libraries holdings merged
- 4 staff in Electronic resource department

The screenshot shows the TDNet search interface. At the top, there are navigation tabs: "Søg materialer", "E-materialer", "Emneguide", and "Dialog". Below these are "E-tidsskrifter", "Databaser", and "Webressourcer". The main content area is titled "E-tidsskrifter" and contains a search box labeled "Søg på titel" with "Søg" and "Slet" buttons. Below the search box are radio buttons for "Ord i titel" (selected) and "titel begynder med". There is a section for "Emneindgang" with links for "Humaniora", "Naturvidenskab", "Samfundsvidenskab", "Sundhedsvidenskab", and "Teologi". To the right of the search area is a "Spørgsmål eller brug for hjælp?" section with a "Skriv til os." link. At the bottom, there is a "Læs mere" link and a "Guide til TDNet PDF" link.



# Too many lists

**ULRICH'S**  
SERIALS ANALYSIS SYSTEM

The analytical and reporting toolkit for library professionals

## Counts of Comparison Universe: Summary

To compare any two of Your Library Lists, select one file from each drop-down menu

List A:  List B:

Reporting Level: [Summary](#) [Detailed](#) View/Search: [List A](#) View/Search: [List B](#)

**Limit To:**

List Matches  
  Refereed  
  Abstracted/Indexe  
 Electronic Edition  
  ISI Impact Factor  
  Magazines for Libraries  
 Academic/Scholarly  
  Full-Text

Country of Publication:  Subject:

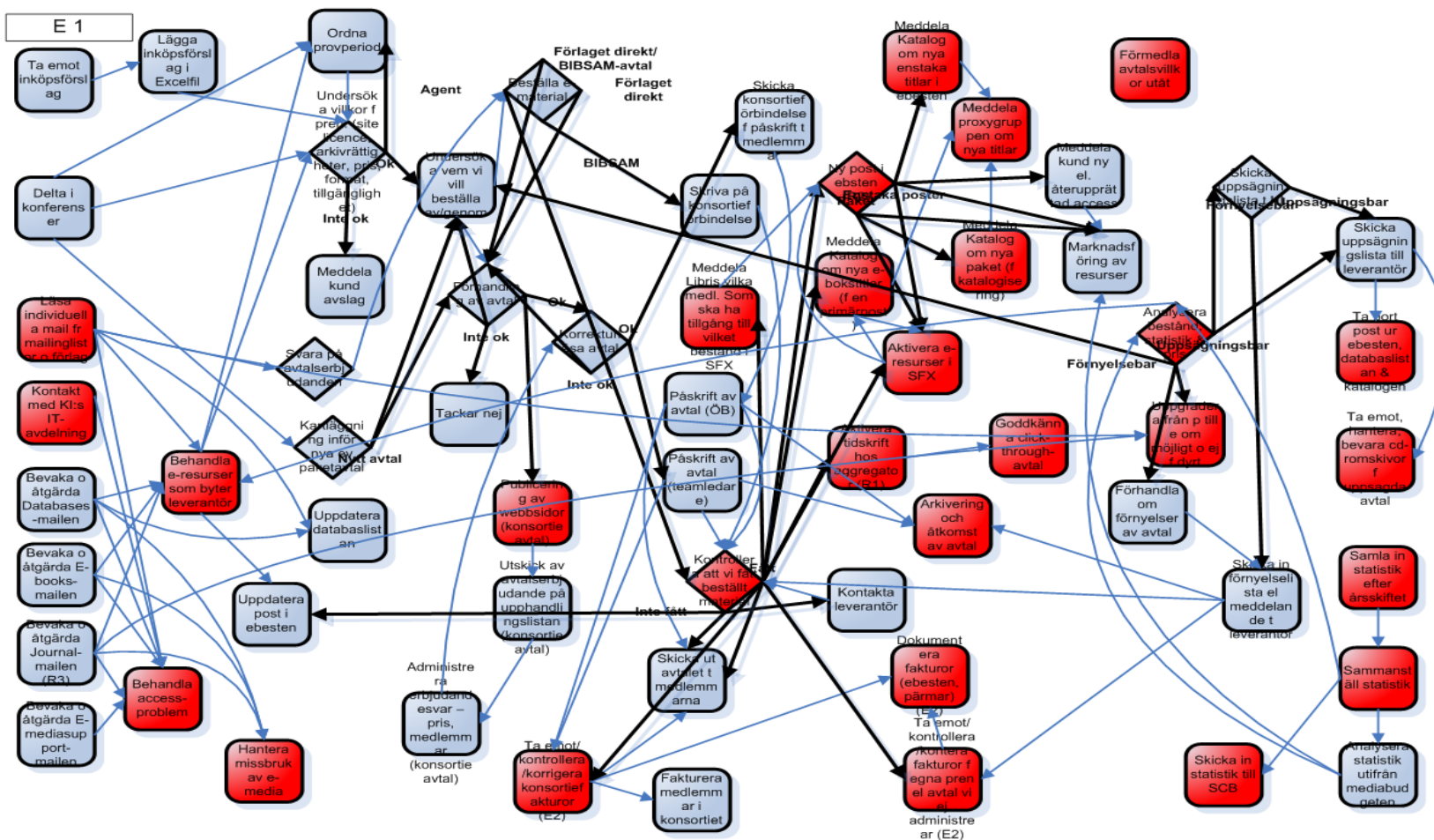
Save Limite

[Download](#)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	title	opstilli	beholdn	udlån v	peer re	online s	online s	online l	Backfil	bevares	hvis x t	ukpl		
Ulrich's Subject	103 HV	•Child and Sa-T A	20-27, 199 6	ja	1998				Kluwer Jot x					Har indekser
	104 HV	Journal of: T-05050-Sa	13-23, 199 6	ja	1999				Kluwer Jot x					
Grand Totals:	105 hin	Revue d'a: As-T ABF	1-92, 1884/1885-1998									x		
	106 hin	Revue de As-T AF	1976:21-1988:46									x		
expand ABSTRACT	107 hin	Revue du As-T A	1988(1989):47-1995(1996):77/78									x		
expand ADVERTIS	108 hin	Rivista de As-T AF	1-63, 1907-1989 (1990)									x		
	109 HV	Journal of: Sa-T AF	1-11, 1971-6	ja	#####				Science Direct/Elsevier					
expand AERONAUT	110 HV	Minerva Sa-T AF	1-33, 1962 6	ja	1997				Kluwer Jot x					Har indekser
expand AGRICULT	111 hin	Selections As-T BF	687/696-745/760, 1970-1973									x		
	112 hin	Simmel stu T-00344	10, 2000									x		
expand ALTERNAT	113 hin	Sinologic As-T AF	1-12, 1947/1948-1971/1972									x		
	114 hin	South Asi As-T AF	1-6, 1971-1976N. s., 1-3, 1978-1980									x		
expand ANIMAL W	115 hin	South Asi As-T AF	3-8, 1969/1970-1974/1975									x		
expand ANTHROPC	116 hin	Southeas T-08708-A	1981-2002									x		
	117 hin	Statistical As-T AF	72, 1930/1931-1939/1940(1943)									x		
expand ARCHAEO	118 hin	Statistisc T-00231	N.F.. 51-51. 2001-2001									x		
expand ARCHITECTURE							76		2			2		74



+26GB of spread sheets





# ERMS!

- Requirements:
  - Strong well maintained knowledgebase
  - Hosted!
  - Option for entering not just e-packages but also single & print subscriptions
  - Budget sharing
  - Tracking of trials – WITH comments
- Goes without saying:
  - Compatible with local system(s)
  - Follows the general guidelines

# ERMS at work

Meridian - Economist Historical Archive Trial (2008-04-14 - 2008-05-17) - Evaluation Details - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://aspvov.endinfosys.com:17395/MERIDIAN/fc/trialNotes?seqNum=18&id=224153

Gratis Hotmail Tilpas hyperlinks Windows Media Windows

Meridian Home System Admin Help

Search All Records for [ ] Go Search Tips

Meridian Search Results > Economist Historical Archive Product Details

## Economist Historical Archive Trial (2008-04-14 - 2008-05-17) - Evaluation Details [Delete](#)

Properties **Evaluator Notes** History

[Add Note](#)

Note	Evaluator	Date	
IML: Den går jeg meget ind for, at vi anskaffer. Jeg tror, mange studerende kan have glæde af den. Den indeholder politiske og økonomiske oversigtsartikler og analyser af anerkendte journalister o.a. Også på mit område, Sovjetunionen, Rusland, Kaukasus, Centralasien er der masser af godt stof. Jeg har bl.a. moret mig med at finde artikler fra 1898-1914 om russisk smørhandel ... og meget andet. Den er også fint bygget op og nem at bruge. Meget relevant, synes jeg. Håber, den bliver indkøbt.	Vibeke Christensen	2008-04-22	<a href="#">Edit</a> <a href="#">Delete</a>
Jody Pennington: Det ser fantastisk ud. Jeg håber andre får brug for den.	Vibeke Christensen	2008-04-23	<a href="#">Edit</a> <a href="#">Delete</a>

Meridian Home System Admin Help

Search All Records for [ ] Go Search Tips

Thesaurus linguae graecae Search Results

**Thesaurus linguae graecae - Product Details [Delete](#)**

L = Attribute is from the Meridian database  
R = Attribute is from the remote database

Summary Properties Licenses **Acquisitions** Trials & Evaluations Incidents History

[Add New PO](#)

Number	Status	Creation Date	Vendor	Price	Funds	
<a href="#">Pristilbud 20080303 I DKK L</a>	Lukket	2008-03-07	Swets Information Services	44,650.00	TEOL, EB	<a href="#">Add New Invoice</a>
<a href="#">SE's andel 25% 42134598 L</a>		2008-04-08	Swets Information Services	0.00	TEOL, EB	<a href="#">Add New Invoice</a>
<a href="#">T's andel 75% 42134598 L</a>		2008-04-08	Swets Information Services	0.00	0443	<a href="#">Add New Invoice</a>

Done

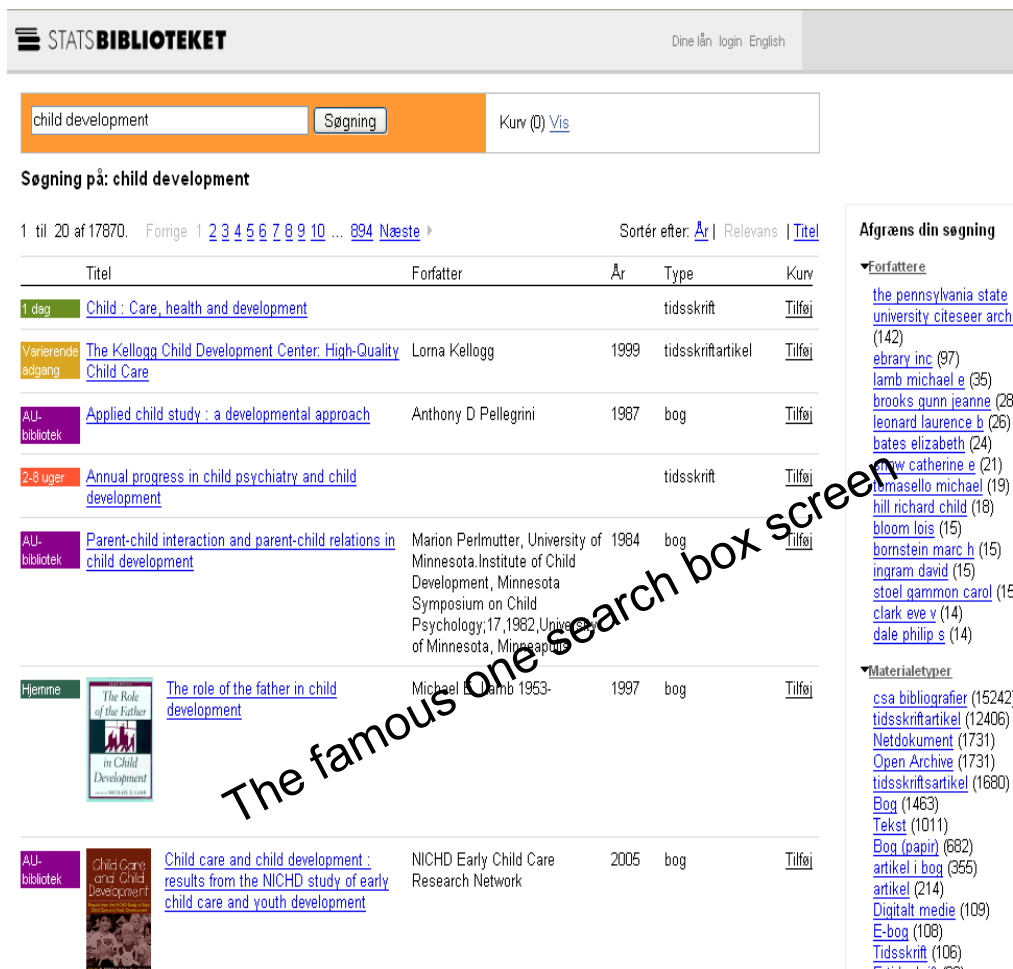
Start http://www... Priser eg...

# 2008 The true e-library?



## Behind the scene

- The back office is re-structured
- 90% of all budget is used for electronic purchases
- Shelf space has been re-allocated

## What the user experiences:



The screenshot shows the Statsbiblioteket search interface. The search term 'child development' is entered in the search box. The results table lists various articles and books related to child development, including titles like 'Child : Care, health and development', 'The Kellogg Child Development Center. High-Quality Child Care', and 'Applied child study : a developmental approach'. The table columns include Titel, Forfatter, År, Type, and Kurv. A large watermark 'The famous one search box screen' is overlaid diagonally across the page.

	Titel	Forfatter	År	Type	Kurv
1 dag	<a href="#">Child : Care, health and development</a>			tidsskrift	<a href="#">Tilføj</a>
Varierende adgang	<a href="#">The Kellogg Child Development Center. High-Quality Child Care</a>	Loma Kellogg	1999	tidsskriftartikel	<a href="#">Tilføj</a>
AUL-bibliotek	<a href="#">Applied child study : a developmental approach</a>	Anthony D Pellegrini	1987	bog	<a href="#">Tilføj</a>
2-8 uger	<a href="#">Annual progress in child psychiatry and child development</a>			tidsskrift	<a href="#">Tilføj</a>
AUL-bibliotek	<a href="#">Parent-child interaction and parent-child relations in child development</a>	Marion Perlmutter, University of Minnesota. Institute of Child Development, Minnesota Symposium on Child Psychology; 17, 1982, University of Minnesota, Minneapolis	1984	bog	<a href="#">Tilføj</a>
Hjemme	 <a href="#">The role of the father in child development</a>	Michael Lamb	1953-	1997 bog	<a href="#">Tilføj</a>
AUL-bibliotek	 <a href="#">Child care and child development : results from the NICHD study of early child care and youth development</a>	NICHD Early Child Care Research Network	2005	bog	<a href="#">Tilføj</a>

StatsBIBLIOTEKET Dine lån login English

child development  Kurv (0) [Vis](#)

Søgning på: child development

1 til 20 af 17870. Forrige | [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) ... [894](#) [Næste](#) ▶

Sortér efter: [År](#) | [Relevans](#) | [Titel](#)

Afgræns din søgning

▼ **Forfattere**

- [the pennsylvania state university citeseer arch](#) (142)
- [ebrary inc](#) (97)
- [lamb michael e](#) (35)
- [brooks gunn jeanne](#) (28)
- [leonard laurence b](#) (26)
- [bates elizabeth](#) (24)
- [how catharine e](#) (21)
- [masello michael](#) (19)
- [hill richard child](#) (18)
- [bloom lois](#) (15)
- [bornstein marc h](#) (15)
- [ingram david](#) (15)
- [stoel gammon carol](#) (15)
- [clark eve y](#) (14)
- [dale philip s](#) (14)

▼ **Materialetyper**

- [csa bibliografier](#) (15242)
- [tidsskriftartikel](#) (12406)
- [Netdokument](#) (1731)
- [Open Archive](#) (1731)
- [tidsskriftsartikel](#) (16800)
- [Bog](#) (1463)
- [Tekst](#) (1011)
- [Bog \(papir\)](#) (682)
- [artikel i bog](#) (355)
- [artikel](#) (214)
- [Digitalt medie](#) (109)
- [E-bog](#) (108)
- [Tidsskrift](#) (106)

# BUT....

- It all STILL goes back to the old print journals and bibliographies – now just in e-form



Where is the innovation?

# Another piece of useless statistics:

# database searches

2001→2006 : 400,000→678,861

All just in indexed text – as done for well over 100 years.....

# Indexing - Normal A&I

Louise Karlberg, David Gustafsson and Per-Erik Jansson

## Modeling Carbon Turnover in Five Terrestrial Ecosystems in the Boreal Zone Using Multiple Criteria

Abstract and title – the basic indexing

Estimates of carbon turnover are key elements in climate change and in predicting the future of the biosphere. In this study, carbon fluxes and turnover times of five terrestrial ecosystems were modeled using a Coupled Model (CoupModel). The model incorporates large amounts of site-specific data in the simulation. Turnover times of carbon between systems vary in size of both the pool and the flux. Depending on the ecosystem, turnover times varied from less than one year to more than one hundred, which may be of importance when considering trace element transport and retention. The parameterization method was useful both in the estimation of unknown parameters, and to identify variability in carbon turnover in the selected ecosystems.

### INTRODUCTION

In the light of recent concerns regarding future climate change, the contribution of ecosystem carbon exchange with the atmosphere has been the focus of many current research efforts (e.g., 1–4). Although both carbon budgets and carbon turnover times have been estimated for several ecosystems and at several locations, independent estimates of carbon turnover times are required to fully understand the carbon cycle and to constrain current estimates of carbon turnover times. The major constraint to the estimation of carbon turnover times is the lack of direct measurements of the major carbon turnover processes, and to link this behavior to the driving force of the system. Carbon turnover is defined as the annual flux of carbon originating from a source divided by the stock of carbon. Currently, independent estimates of carbon turnover times are possible for several ecosystems (5–14). Estimates of carbon turnover in the ecosystems located within these areas facilitate an assessment of potential trace element accumulation in biomass in the event of a leakage of radionuclides into the groundwaters from the repositories. The aim of this study is to compare carbon budgets for five representative coastal terrestrial ecosystems in the Oskarshamn area, southeast Sweden, using an ecosystem process model. This model is calibrated with a Bayesian approach using multiple criteria for model acceptance. Another aim is to identify

Text- but probably not relevant

Model Description  
The CoupModel (17) was used to simulate ecosystem carbon turnover in five ecosystems (18). The model describes the interaction between biogeochemical and hydrological processes in a one-dimensional soil-plant-atmosphere system. Fluxes of water, heat, and matter are calculated for a vertical soil profile and one or several vegetation layers above with time series of meteorological data as the driving force.

ties between ecosystems with respect to mean turnover (MTT) of carbon, that may impact on the fate of trace elements entering into these systems.

### STUDY SITES

#### System Description

Five terrestrial ecosystems were selected to represent the soil systems included in the study (Table 1). These were selected both because they are likely to differ in carbon turnover times, and also because together they cover about 80% of the land cover at the study site at Ljusdal (57°N 26°E, 16°E 38°N 15.7). Average annual rainfall is 600–700 mm, and the yearly mean temperature is 6–7 °C (15). The first ecosystem, a semi-natural grassland, is characterized by the lack of a tree layer, and a field layer consisting of a mixture of grasses and herbs growing on a clay soil. A forest dominated by alder (*Alnus glutinosa*) with a high groundwater table was chosen to represent the second ecosystem. This deciduous tree has symbiotic nitrogen-fixing bacteria in its root nodules. Due to the ample supply of nitrogen, alder retains only a small fraction of its nutrients before shedding its leaves in the autumn. The field layer was characterized by nitrophilic grasses and herbs growing on a wet organogenic soil type. A pine forest (*Pinus sylvestris*), growing on a thin layer of soil, was chosen to represent the fourth ecosystem. In this forest, the field layer was dominated by a mixture of grasses and herbs growing on a clay soil. A forest dominated by alder (*Alnus glutinosa*) with a high groundwater table was chosen to represent the second ecosystem. This deciduous tree has symbiotic nitrogen-fixing bacteria in its root nodules. Due to the ample supply of nitrogen, alder retains only a small fraction of its nutrients before shedding its leaves in the autumn. The field layer was characterized by nitrophilic grasses and herbs growing on a wet organogenic soil type. A pine forest (*Pinus sylvestris*), growing on a thin layer of soil, was chosen to represent the fourth ecosystem. In this forest, the field layer was dominated by a mixture of grasses and herbs growing on a clay soil.

Text – easy to machine index, but not very relevant

The abiotic part of the model is based on two coupled partial differential equations for the water and heat flows in the soil:

Table 1. Description of the main characteristics of the ecosystems included in the study.

Name	Tree layer	Field layer	Soil type	Management
Grassland	none	Grass and herbs	Clay	None
Alder	Alder ( <i>Alnus glutinosa</i> )	Grass and herbs	Clay	None
Pine	Scots pine ( <i>Pinus sylvestris</i> )	Cowberry ( <i>Vaccinium vitis-idaea</i> )	TH	None
Spruce	Norway spruce ( <i>Picea abies</i> )	Strawberry ( <i>Vaccinium myrtillus</i> )	TH	None
Spruce, managed	Norway spruce ( <i>Picea abies</i> )	Strawberry ( <i>Vaccinium myrtillus</i> )	TH	TH

This is not searched

the Richard's equation (water) and the Fourier law of diffusion (heat), respectively (19). Surface boundary conditions, such as evapotranspiration, soil surface temperature, and snow melt are based on energy balance calculations where net radiation is balanced by turbulent fluxes of sensible and latent heat, and surface heat flow (20–21). Water uptake from the soil is based on a soil-plant-atmosphere-continuum approach, considering the flux of water from the soil through the plant as a response to the demand of water from the atmosphere, i.e. the Penman-Monteith equation (22–24). Snow accumulation and melt are described, as well as the partitioning between infiltration to the soil or surface runoff at the uppermost soil boundary.

Parameterization and Model Application  
Parameter values characterizing the ecosystems were either synthesized from literature or determined in an automated calibration procedure based on Bayesian principles (29), using prescribed criteria of acceptance including both site specific and generic data (Table A3–A5). This method quantifies parameter uncertainty and correlation rather than maximizing fit.

Lots of noise if all text is indexed

The biotic part of the model simulates plant growth, carbon and nitrogen turnover in the soil (25–26) partitioned into several above-ground and below-ground carbon and nitrogen (Fig. 1). Gross products (GPP), driven by solar radiation (27) and regulated by nitrogen content, water uptake, and air temperature to different compartments of the plant (leaves, stems and fine roots) in different fractions (Table 1). Allocation to fine roots for spruce and pine is also regulated by soil moisture (28). At death, stems and leaves are removed from the plant storage compartments. Each compartment is assumed to have a potential nitrogen ratio, which subsequently give rise to the demand. Plant respiration is partitioned on maintenance respiration from all plant compartments as a function of temperature (28). Daily litterfall is a fraction of above-ground and below-ground parts entering the soil organic pools. Two pools with different turnover rates were used to represent the soil organic matter and humus. Decomposition of these pools are a function of temperature and soil moisture content. The model inputs to the biotic part are thus characteristics of the environment.

The likelihood function, formulated as: the probability of a candidate parameter set to be part of the posterior distribution, is equal to its prior probability times the likelihood of the model output to be equal to the available data. It is further assumed that the likelihood function can be chosen such that the difference between the model output and the data can be attributed to additive measurement errors. This assumption is highly useful, since it allows the procedure to take into account observations of different output variables and error estimates. The following function was used to calculate the logarithm of the likelihood based on the normal distribution:



This is not searched

$$-0.5 \frac{(O_t - S_t)^2}{M_t^2}$$

This is not searched

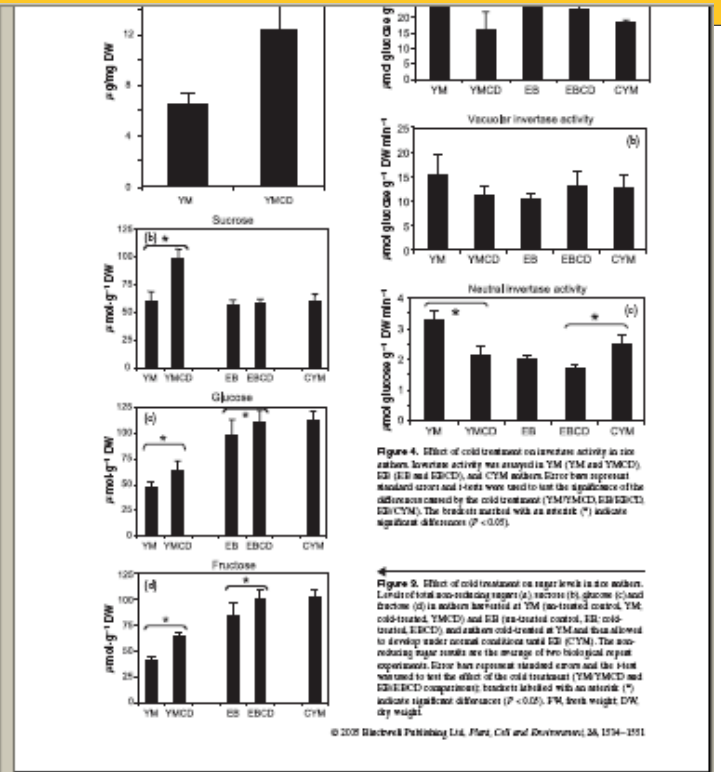
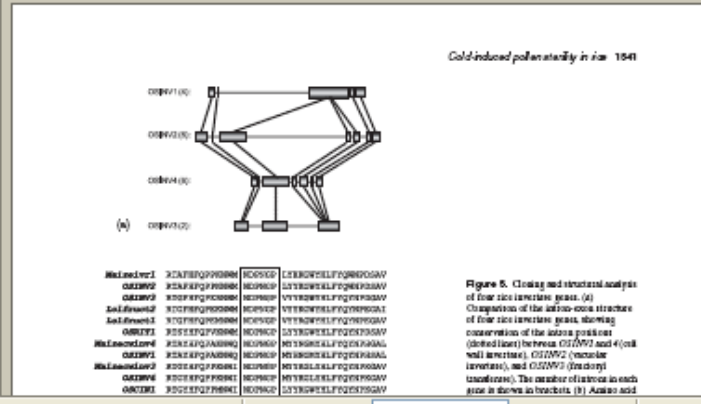
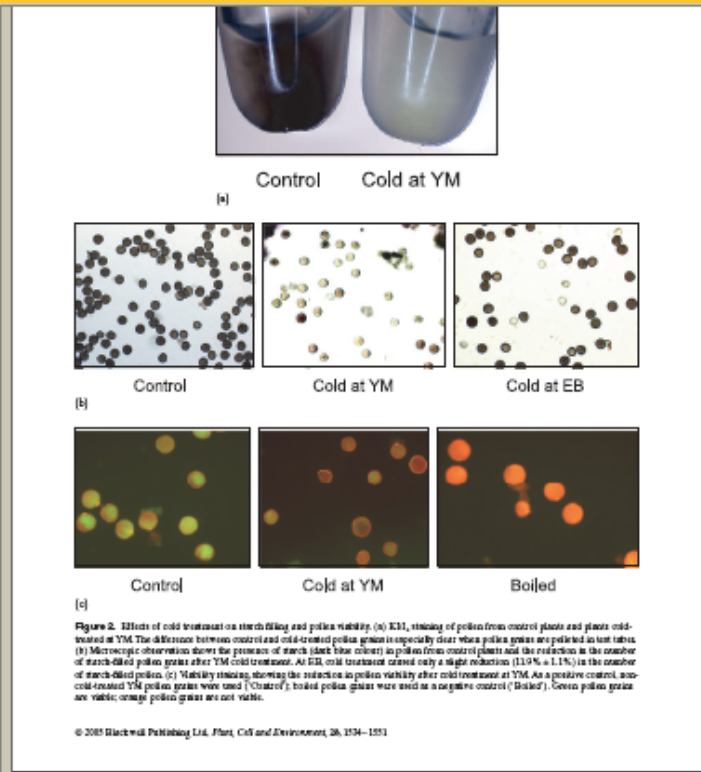
Figure 1. Conceptual model of the ecosystem. The CoupModel, if several vegetation layers are simulated, all plant storage pools (the oval shaped symbols in the middle of the figure) are duplicated for each additional layer, as well as the flows to and from and between these pools.



Pages

Options X

5 6 7 8 9 10 11 12 13 14



# Reasons Why Data Are Hidden In Traditional Searches

- Data variables do not appear in any index.
    - there are no indexing ‘hooks’ in title, abstract or caption for “*dissolved oxygen*”, below.
2. A search of the full text bypasses the image files

Sts.	Depth (m)	Sal.	Temp. (°C)	pH	DO (mgL <sup>-1</sup> )	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
1	2.1	31.8	24.4	8.66	6.92	0	99.9	0.1	0
2	2.5	31.9	24.3	8.67	7.05	0	95.8	3.2	0
3	1.8	31.6	24.5	8.63	7.00	0	99.8	0.2	0
4	1.7	31.7	25.6	8.68	7.06	0	90.9	7.8	0
5	2.0	31.7	25.5	8.66	6.76	0	8.4	66.3	0
6	2.7	32.2	25.5	8.70	6.90	0	7.5	—	0
7	1.9	31.9	25.2	8.67	7.02	0	77.7	—	0
8	3.0	31.9	24.3	8.61	6.71	0	—	—	0
9	4.3	32.2	24.1	8.65	6.37	0	—	—	0
10	2.3	31.8	24.6	8.66	6.92	0	—	—	0

*Table 1. Depth, physico-chemical and sedimentological variables.*

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**Affiliation** University of Aberdeen, Cruickshank Building, St Machar Drive, Aberdeen

**Source** Science of the Total Environment [Sci. Total Environ.]. Vol. 382, no. 2-3

**Objects**



Figure 1.

Table 1.

Table 2.

Table 5.

Table 6.

## Table 2.

**Caption:** Potential changes in soil C storage in terms of conversion of land-uses Land-use change Net C rate and uncertainty ( $\times 10^3 \text{ kg C ha}^{-1} \text{ yr}^{-1}$ )

**Category:** [Table](#)

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**Abstract** This paper reviews our current knowledge and understanding of **carbon** processes in the terrestrial **ecosystem** with a view to reducing soil **carbon** losses by optimising land-use and land management. Processes that influence the fate of **carbon** (in both terms of quantity and quality) are important in determining soil fertility, quality and health as well as consequences for future environmental change scenarios. We need to understand the processes that determine soil **carbon** losses and the fate of the **carbon** once lost from the soil in order to provide sustainable solutions for mitigating these **carbon** losses as part of land management "best practice" and balancing national **carbon** budgets. Here we review the amount of **carbon** within the UK terrestrial pool, the processes involved and factors influencing **carbon** transport to and from soils, the fate of the **carbon** once it has been lost from the soil environment and land-use scenarios that affect **carbon** losses. We conclude with possible management options to reduce soil **carbon** loss and identify gaps in knowledge in order to better understand **carbon** processes in the terrestrial environment.

**Descriptors** **Article Subject Terms:**  Land use  Reviews  budgets  soil fertility  Environment management  terrestrial **ecosystems**  
 Terrestrial environments  environmental changes  mitigation  best practices  Sustainable development  Soil

**Article Geographic Terms:**  British Isles

**Object Descriptors** **Object Subject Terms:**  CH<sub>4</sub> degassing rate  **Carbon** flux  **Carbon** flux rate  Catchment size (km<sup>2</sup>)  Combined **carbon** flux studies  Conversion of land-uses  Crop production improvement  Details of study  Details of study catchment  Erosion control  Evasion flux of CO<sub>2</sub>  Evasion fluxes of CH<sub>4</sub>  Evasion fluxes of CO<sub>2</sub>  Farming on eroded soils  Improved residue management  Land erosion  Land management options  Land-use change  Methane uptake  Native vegetation  Net **carbon** rate  Net **ecosystem** exchange  Potential changes in soil **Carbon** storage  Processes to determine total **carbon budget**  Riverbank erosion rate  Section of review  Soil C storage  Soil **carbon** gain  Soil **carbon** losses  Soil **carbon** pools  Soil erosion  Soil erosion rate  Soil erosion rates  Suspended sediment  Terrestrial **Ecosystem** Pathways  Terrestrial **ecosystem** pathways  Terrestrial **ecosystems**  Total **carbon budget**

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# Thank You

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