

SwePub MODS metadata format specification

Version 2.6

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1 Introduction

1.1 About the specification

This document is the formal specification of the SwePub MODS publication metadata format updated 2015 to improve the use of bibliometrics in the national publication system SwePub and is effective from the autumn of 2015. The major part of the updates focus on identifiers for publications, researchers and organisations as well as on output types in order to improve the stability and possibilities of publication statistics of Swedish researchers and organisations.

The new specification is based on the initial SwePub MODS format specification 2.0 from 2012¹ adding some features suggested by a study initiated by the Association of Swedish Higher Education (SUHF) in 2012². It further contains features developed by a government-commissioned project at the National Library of Sweden (NLS) from 2014 to spring 2015.³

The SwePub MODS metadata format specification version 2.5 was released in the summer of 2014. After spotted omissions and errors SwePub MODS has been further revised resulting in the present version 2.6. The ambition has been to be as backward compatible as possible. Major changes to features added in version 2.5 have been avoided.

1.2 General information about record exchange and format

- Metadata records are harvested from local publication systems to the SwePub system at the National Library of Sweden using the protocol OAI-PMH.
- Metadata records harvested in SwePub MODS format 2.1 or later must be based on Library of Congress MODS version 3.5 or later.
- Character coding in MODS XML files must be UTF-8.
- All main elements in SwePub MODS, except for *recordInfo* and *physicalDescription* are repeatable.
- Metadata elements without content are not to be included in SwePub MODS records.
- If the attribute *lang* is used the language code must be specified using a code according to standards ISO 639-2b⁴ or ISO 639-3⁵.
- If an element is repeated with content in different languages, the attribute *lang* must be used for all elements.
- Elements containing strings for years, dates and identifiers (as DOI, ISSN, ISBN or ORCID) must not contain any other data except the year, the date or the identifier code.

1.3 Key to element specifications

Top-level SwePub MODS elements are given a heading in this documentation to avoid abundant nesting of headings due to the hierarchy of XML elements. All top level MODS elements reside in the following position in the OAI-PMH document set hierarchy:

```
<OAI-PMH>
  <ListRecords>
    <record>
      <metadata>
        <mods>
          <element>
```

The metadata elements are presented according to a compressed and standardised format with a uniform set of explanations:

¹ *SwePub MODS specification 2.0* (2012-10-10). http://api.libris.kb.se/swepub/kravspec_20081118.pdf

² *Vidareutveckling av formatspecifikationen för SwePub MODS på nationell nivå*. 2012.

<http://www.suhf.se/arbetsgrupp/avslutadearbetsgrupperochprojekt/vidareutvecklingavformatspecifikationenforswepubmodspanationellniva>

³ <http://www.kb.se/aktuellt/nyheter/2014/SwePub-blir-ett-kuggghjul-i-forskningens-infrastruktur/>,

<http://www.kb.se/libris/Om-LIBRIS/aktuella-projekt/>

⁴ http://www.loc.gov/standards/iso639-2/php/code_list.php

⁵ <http://www-01.sil.org/iso639-3/codes.asp>

Element name	Name of element in the XML code. In some cases where the top element is a pure container sub-elements are included in the element description.
Purpose	The purpose of the element
Sub-elements	Commonly used sub-elements on the next level in the XML hierarchy in SwePub MODS
Attributes	Special and important attributes to specify properties of the data contents of the element, together with a list of commonly used attribute values in SwePub
Usage	The technical use of the element. States if the element is mandatory (M), mandatory if applicable (A), or optional (O)
Praxis	A short indication of suitable praxis for registration. For further discussion of recommended registration praxis, see the SwePub registration praxis guidelines ⁶
Motivation	A short motivation for the use of the element and its content
Code example	XML code example for the element, its attributes and surrounding and nested elements for context
Version/date	SwePub MODS version when the element was first introduced and last modification date
New	Comments about changes in regard to SwePub MODS version 2.0
List of values	List of values to be used in this element, if restricted by format or praxis
Discussion	Further discussion about the element and its usage

1.4 Bibliographic minimal level

The elements listed below are mandatory for the bibliographic minimal level. If any of these elements are missing or false, the records are rejected and will not be stored in the SwePub database.

Element(s)	Definition	SwePub MODS 2.6
recordInfo recordContentSource	The identifier for the organisation responsible for supplying the publication record	3 Record information 3.1 Record content source
Name	The name of a person, organisation, or event (conference, meeting, etc.) associated in some way with the resource	13 Names and affiliations 13.1 Person name, identifier and affiliation 13.2 Organisation as author 13.3 Organisation as originator
titleInfo title	The title of the resource	6 Title and subtitle 6.1 Title
Genre	Publication/Output type for all publication/output types except "Patent"	10.1 Publication type 10.2 Output type
Genre	Content type describing the scientific level and/or target group for the resource	11 Content type
originInfo	The date or year the resource was	16 Publication date and publisher

⁶ <http://info.swepub.kb.se/leverans-av-data/format-och-praxis/>
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dateIssued	published if the publication status is "Published" or not given	16.1 Publication date
identifier	The resource identifier to identify the resource uniquely	5 Resource identifiers 17.5 Source identifiers
language languageTerm	The language(s) of the publication	9 Language 9.1 Language term
relatedItem	The serial or monographic work of which the described work is a part	17 Source 17.1 Journal or book as source 17.2 Series as source 17.6.4 Source part
relatedItem type=series NOT relatedItem type=host	A book can only have a series as source, not a journal or book as source	17.2 Series as source NOT 17.1 Journal or book as source

1.5 Relation to praxis for registration

This specification is intended to be as neutral as possible with regard to metadata registration practices, but nevertheless it sometimes has to indicate what kind of data that is expected in the elements, and therefore contains some suggestions for registration praxis. For a more detailed discussion of registration practices, see the guide to registration praxis for local databases exchanging metadata with the SwePub system – *Nationella riktlinjer för beskrivning av vetenskaplig output*.⁷ The references to registration practices in this specification may be subject to change and are superseded by instructions in the current guide to registration praxis.

Overview of major changes with regard to SwePub MODS version 2.0

- All publication originators (authors, creators) that have a relation to the organisation entering the publication metadata record must have a *name* entry with an affiliation.
- Affiliations for Swedish organisations that are delivering records to SwePub must have a controlled identifier added as an attribute to the *affiliation* element.
- External publication originators (co-authors, creators) from foreign organisations for up to 10 persons must have a country affiliation.
- All publication records must contain a *note* of type *creatorCount* stating the total number of authors/creators to the resource.
- Name elements for originators from the organisation entering the publication record should have at least one unique identifier for the person on organisational, national or global level.
- *role* and *roleTerm* elements are mandatory for originators from the organisation entering the publication record.
- The additional role *cre* is introduced to improve automatic counting of the number of creators to a publication.
- The use of the role *pbl* for originator organisations (name type corporate) is deprecated in favour of the role *org*.
- A bibliographic minimal level is introduced.
- The possibility to flag non-validated records that have not been through the local validation process is introduced.

⁷ <http://info.swepub.kb.se/leverans-av-data/format-och-praxis/>
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- Publication type has been changed to output type with more defined types, especially for artistic and conference works. For more information on output types, see the document Swedish classification of output⁸.
- Publication date is changed from mandatory to mandatory only for formally published publications.
- Source article number is introduced for publications that have article numbers instead of pages.
- The possibility to mark an additional source as thesis when a resource published in another source is also included in a compilation thesis.

1.6 Working group and contact

The SwePub MODS focus group within the SwePub Analysis development project has been comprised of the following persons:

- Henrik Aldberg, Swedish Research Council
- Urban Andersson, Chalmers University of Technology
- Stina Degerstedt, National Library of Sweden
- Jörgen Eriksson, Lund University
- Marja Haapalainen, National Library of Sweden
- Peter Hansson, Chalmers University of Technology
- Jürgen Kerstna, National Library of Sweden
- Ulf Kronman, National Library of Sweden
- Christer Larsson, National Library of Sweden
- Joakim Philipson, National Library of Sweden
- Peter Sjögarde, KTH Royal Institute of Technology
- Per Åberg, Stockholm University

Revision of SwePub MODS metadata format specification – version 2.6:

- Tuija Drake, National Library of Sweden
- Marja Haapalainen, National Library of Sweden
- Jürgen Kerstna, National Library of Sweden

Comments and questions regarding the SwePub MODS format can be sent to: libris@kb.se

1.7 References

CRISTIN. Håndbok for bruk av metadata i norske forskningsarkiv. Version 1.1. 2012.

<http://www.cristin.no/open-access/metadata.html>

Metadata Object Description Schema (MODS). 2013.

<http://www.loc.gov/standards/mods/>

MODS Metadata Object Description Schema, version 3.5. 2013.

<http://www.loc.gov/standards/mods/v3/mods-3-5.xsd>

Nationella riktlinjer för beskrivning av vetenskaplig output. Version 1.2. 2015.

<http://info.swepub.kb.se/leverans-av-data/format-och-praxis/>

Nationellt format för publiceringsdatabaser (lokala register över akademisk publicering). Version 1.2. 2005.

http://www.kb.se/Dokument/Om/projekt/SVEP/nationellt_format.pdf

ORCID - Open Researcher and Contributor ID.

<http://orcid.org/>

Outline of Elements and Attributes in MODS Version 3.5. 2013.

<http://www.loc.gov/standards/mods/mods-outline-3-5.html>

⁸ Svensk indelning av vetenskaplig output: <http://info.swepub.kb.se/leverans-av-data/format-och-praxis/>
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Slutrapport från Arbetsgrupp för utveckling av formatspecifikationen SwePub MODS på nationell nivå. 2012
<http://bit.ly/1cHPRDb>

Standard för svensk indelning av forskningsämnen 2011. Statistiska centralbyrån.
http://www.scb.se/sv_/Dokumentation/Klassifikationer-och-standarder/Standard-for-svensk-indelning-av-forskningsamnen-2011/

SwePub – söktjänst
<http://swepub.kb.se/>

SwePub för analys och bibliometri
<http://info.swepub.kb.se/>

SwePub project specification 1.1 (2008-10-23) and SwePub MODS specification 2.0 (2012-10-10).
http://api.libris.kb.se/swepub/kravspec_20081118.pdf

The Open Archives Initiative Protocol for Metadata Harvesting. 2015.
<http://www.openarchives.org/OAI/openarchivesprotocol.html>

2 MODS root element

Element name	mods
Purpose	The MODS metadata wrapper
Sub-elements	All applicable MODS top-level elements and sub-elements
Attributes	xmlns, xmlns:xsi, xsi:schemaLocation
Usage	M - Mandatory
Praxis	Must encapsulate each MODS XML metadata record
Motivation	Metadata wrapper with attributes specifying Library of Congress MODS metadata format and version as basis for SwePub MODS
Code example	<pre><mods xmlns="http://www.loc.gov/mods/v3" version="3.5" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.loc.gov/mods/v3 http://www.loc.gov/standards/mods/v3/mods-3-5.xsd"> ... </mods></pre>
Version/date	2.1 / 2014-02-05 [Checked 2015-04-23]
New	MODS version 3.5 ⁹
Discussion	MODS version > 3.5 is needed for attributes <i>stringPlusLanguagePlusAuthority</i> introduced in name and ID elements introduced in SwePub MODS > 2.0

3 Record information

Element name	recordInfo
Purpose	Container for information about the publication metadata record
Sub-elements	recordContentSource
Attributes	xmlns:xlink
Usage	M - Mandatory
Praxis	Must be supplied for all records delivered to SwePub
Motivation	Container for record content source
Code example	<pre><recordInfo xmlns:xlink="http://www.w3.org/1999/xlink"> <recordContentSource> ... </recordContentSource> </recordInfo></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

3.1 Record content source

Element name	recordContentSource
Purpose	The identifier for the organisation responsible for supplying the publication record
Sub-elements	-
Attributes	authority
Usage	M - Mandatory
Praxis	The organisation responsible for the record must supply a controlled identifier in this element. In case of several organisations sharing system and records the element is to be repeated for each organisation.

⁹ <http://www.loc.gov/standards/mods/v3/mods-3-5.xsd>
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Motivation	Record content source are used to track records back to their source after harvesting and possible merging of duplicates
Code example	<pre><recordInfo> <recordContentSource>gu</recordContentSource> <recordContentSource>cth</recordContentSource> </recordInfo></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]
List of values	Supplied by the National Library of Sweden

3.2 Flag for non-validated records

Element name	mods
Purpose	Container for information about the validation status of the record
Sub-elements	note (type verificationStatus)
Attributes	type
Usage	O - Optional
Praxis	Use with works that have not been validated and therefore should be excluded from analysis. After the local validation process the flag should be removed to include the record in quality controls of the SwePub system.
Motivation	A flag for non-validated records is used to differentiate records that have not gone through the local validation process, but are still harvested to SwePub for other purposes than contributing to bibliometric analysis.
Code example	<pre><mods> <note type="verificationStatus">not verified at registration</note> </mods></pre>
Version/date	2.6 / 2015-05-13
New	New as from SwePub MODS 2.6
List of values	"not verified at registration"
Discussion	The flag for non-validated records has been created to support local validation processes. If an organisation chooses to implement the flag, records with this flag are excluded from quality controls in the SwePub system and therefore also from analysis. After the local validation process the flag should be removed to include the record in quality controls of the SwePub system. Records without a flag are automatically regarded as locally validated and included in quality controls and de-duplication processes.

4 Record identifiers

Element name	identifier type uri
Purpose	Element to identify and/or link to the publication record
Sub-elements	-
Attributes	type (uri)
Usage	O – Optional
Praxis	Use to link to publication records in various systems
Motivation	To be used for links to publication records
Code example	<pre><identifier type="uri"> http://urn.kb.se/resolve?urn=urn:nbn:se:hh:diva-2104 </identifier> <identifier type="uri"></pre>

	<pre> http://libris.kb.se/resource/bib/1292971 </identifier> <identifier type="uri"> http://www.worldcat.org/oclc/26904758 </identifier> </pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

5 Resource identifiers

Element name	identifier
Purpose	Element to identify the resource uniquely
Sub-elements	-
Attributes	type (doi; isbn; isi; scopus; pmid; patent_number; libris; worldcat)
Usage	A – Mandatory if the resource has a unique identifier
Praxis	<p>Elements with identifiers must not contain any other information than the identifier to be machine-readable. Prefixes as WoS: or ISBN: should not be included.</p> <p>Only identifiers to the actual resource in question must be used here, not identifiers to host publications as ISSN's and DOI's to composite works, as for instance conference proceedings and anthologies.</p>
Motivation	Used for deduplication of records, integration with commercial databases and links to document full texts
Code example	<pre> <identifier type="doi">10.1109/IPDPS.2006.1639502</identifier> <identifier type="isbn">1-4244-0054-6</identifier> <identifier type="isi">000638471328858</identifier> <identifier type="scopus">2-s2.0-33847132885</identifier> <identifier type="pmid">23193287</identifier> <identifier type="libris">1292971</identifier> <identifier type="worldcat">26904758</identifier> <identifier type="patent_number">US 2007/0072443 A1</identifier> </pre>
Version/date	2.2, 2.5 / 2014-03-07, 2014-05-13 [Checked 2015-04-23]
New	Controlled list of identifier types: doi; isbn; isi; scopus; pmid; patent_number; libris; worldcat
Discussion	<p>URI identifiers for publication records can be used as a complement to resource identifiers for linking back to the originating repository, see "Record identifiers". Example:</p> <pre> <identifier type="uri">http://urn.kb.se/resolve?urn=urn:nbn:se:hh:diva-2104 </identifier> <identifier type="uri"> http://libris.kb.se/resource/bib/1292971 </identifier> </pre>

6 Title and subtitle

Element name	titleInfo
Purpose	Container element for the main title and the subtitle of the resource
Sub-elements	title; subTitle
Attributes	type; displayLabel; xml:lang
Usage	M - Mandatory
Praxis	Use language attributes according to ISO 639-2b or ISO 639-3 where applicable
Code example	<pre> <titleInfo> <title> ... </title> <subTitle> ... </subTitle> </pre>

	</titleInfo>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]
Discussion	Alternative titles are added by repeating the titleInfo element and indicating with attribute type="alternative"

6.1 Title

Element name	title
Purpose	The main title of the resource
Sub-elements	-
Attributes	-
Usage	M - Mandatory
Praxis	Use separate elements for main title and subtitle where possible. Put main title and subtitle in title element, separated by a colon (":") or a hyphen ("-") surrounded with spaces if it is not possible to use separate fields.
Motivation	Used to identify the resource, give information about its content and improve searchability
Code example	<pre><titleInfo> <title> Twenty years to nowhere : does land use affect regeneration perspectives? </title> </titleInfo></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

6.2 Subtitle

Element name	subTitle
Purpose	The subtitle of the resource
Sub-elements	-
Attributes	-
Usage	A - Mandatory if applicable
Praxis	Use separate elements for main title and subtitle where possible
Motivation	Used to add information about the content of the resource and improve searchability
Code example	<pre><titleInfo> <title>Twenty years to nowhere</title> <subTitle>does land use affect regeneration perspectives?</subTitle> </titleInfo></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

7 Abstract

Element name	abstract
Purpose	An abstract of the resource
Sub-elements	-
Attributes	lang
Usage	O – Optional
Praxis	Use language attributes according to ISO 639-2b or ISO 639-3 where applicable

Motivation	Used to describe the resource and improve searchability
Code example	<code><abstract lang="eng"> ... </abstract></code> <code><abstract lang="swe"> ... </abstract></code>
Version/date	2.5 / 2014-07-01 [Updated 2014-10-24]

8 Subjects and keywords

8.1 Subject classification according to Swedish research subjects standard

Element name	subject (including sub-element topic)
Purpose	Three-level hierarchical classification of Swedish research subjects according to classification supplied by SCB/HSV
Sub-elements	topic
Attributes	lang; authority; xlink:href
Usage	M - Mandatory
Praxis	At least one classification on level 2 is mandatory.
Motivation	Standard of Swedish research subjects according to classification supplied by SCB/HSV is internationally comparable to OECD field of science and technology (FOS) classification: http://www.oecd.org/science/inno/38235147.pdf
Code example	<code><subject lang="swe" authority="uka.se" xlink:href="60203"></code> <code><topic>Humaniora</topic></code> <code><topic>Språk och litteratur</topic></code> <code><topic>Litteraturvetenskap</topic></code> <code></subject></code> <code><subject lang="eng" authority="uka.se" xlink:href="60203"></code> <code><topic>Humanities</topic></code> <code><topic>Languages and Literature</topic></code> <code><topic>Literature</topic></code> <code></subject></code>
Version/date	2.5 / 2014-06-27 [Updated 2015-04-23]
New	Authority uka.se. Mandatory classification at level 2.
List of values	Standard för svensk indelning av forskningsämnen 2011. http://www.scb.se/sv/_/Dokumentation/Klassifikationer-och-standarder/Standard-for-svensk-indelning-av-forskningsamnen-2011/
Discussion	The standard was created in cooperation between Statistics Sweden (SCB) and "Högskoleverket" (HSV), which has been reorganised to "Universitetskanslersämbetet" (UKÄ), which now is responsible for the management of the list. Therefore, the authority for the list is given as uka.se in SwePub MODS.

8.2 Keywords

Element name	subject (including sub-element topic)
Purpose	Keywords for improved findability and classification
Sub-elements	topic
Attributes	xmlns:xlink; lang;
Usage	O - Optional
Praxis	Use to improve searchability
Motivation	Use to increase searchability of publication records

Code example	<pre><subject xmlns:xlink="http://www.w3.org/1999/xlink" lang="eng"> <topic>distributed processing</topic> </subject> <subject xmlns:xlink="http://www.w3.org/1999/xlink" lang="eng"> <topic>program compilers</topic> </subject> <subject xmlns:xlink="http://www.w3.org/1999/xlink" lang="eng"> <topic>telecommunication signalling</topic> </subject></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

9 Language

Element name	language
Purpose	Container for language information elements
Sub-elements	languageTerm
Attributes	-
Usage	M – Mandatory
Code example	<pre><language> <languageTerm> ... </languageTerm> </language></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

9.1 Language term

Element name	languageTerm
Purpose	The language(s) of the publication
Sub-elements	-
Attributes	type (code); authority (iso639-2b, iso639-3)
Usage	M - Mandatory
Praxis	-
Motivation	-
Code example	<pre><language> <languageTerm type="code" authority="iso639-2b">eng</languageTerm> </language></pre>
Version/date	2.0 / 2012-10-10, updated 2.3 / 2014-04-01 [Checked 2015-04-23]
List of values	ISO language code according to ISO 639-3 or ISO 639-2b
Discussion	ISO language code according to ISO 639-3 (authority="iso639-3") is now permitted both in Library of Congress MODS 3.5 and SwePub MODS from version 2.3

10 Resource type

10.1 Publication type

Element name	genre (type publicationType)
Purpose	To describe publication type according to document types specified in SVEP
Sub-elements	-
Attributes	authority; type
Usage	M – Mandatory

Praxis	For new output use the new output types, see 10.2 <i>Output type</i> . Use with all kinds of content type, see 11 <i>Content type</i> . SwePub has an auto-generated mapping from old publication types to new output types. For more specific mapping use the mapping table for the Swedish classification of output. For selection in the SwePub search system map from new output types to old publication types according to the mapping table for the Swedish classification of output.
Motivation	Used for document selection in the SwePub search system and in SwePub analysis until all output is mapped or classified according to new output types and implemented in the SwePub search system.
Code example	<code><genre authority="svep" type="publicationType">art</genre></code>
Version/date	2.0 / 2012-10-10, amended 2.6/2015-05-13 [Checked 2015-05-13]
List of values	art; bok; kon; kap; dok; rap; rec; sam; for; kfu; lic; pat; pro; ovr
Discussion	Codes <i>kfu/kfa</i> are deprecated as from SwePub MODS version 2.3, see <i>Publication type artistic</i> below. This data is used for selection in the SwePub search system and kept for backwards compatibility until all output is mapped or classified according to new output types and implemented in the SwePub search system, see 10.2 <i>Output type</i> below.

10.1.1 Publication type – artistic

Element name	genre (type outputType)
Purpose	A double classification with output type Artistic was created in order to classify old publication types as artistic
Sub-elements	-
Attributes	authority; type
Usage	O – Optional for old publication types
Praxis	Used as additional information for the old text-based publication types that are classified as artistic output. For new artistic output use new output types according to the Swedish classification of output.
Motivation	Added for inclusion of artistic works in the SwePub system
Code example	<code><genre authority="svep" type="publicationType">bok</genre></code> <code><genre authority="kb.se" type="outputType">ArtisticPerformance</genre></code>
Version/date	2.3 / 2014-04-10, 2.6/2015-05-13 [Revised 2015-05-13]
List of values	ArtisticPerformance for old publication types. Only the top-level classification of <i>Artistic</i> output has been used for this special additional classification.
Discussion	This data is kept for backwards compatibility until all output is mapped or classified according to the new output types.

10.2 Output type

Element name	genre (type outputType)
Purpose	To describe output type according to new document types
Sub-elements	-
Attributes	authority; type
Usage	M - Mandatory

Praxis	Use instead of the old publication type codes according to the Swedish classification of output
Motivation	The new output types are more specific and up-to-date
Code example	<genre authority="kb.se" type="outputType"> ... </genre>
Version/date	2.6 / 2015-05-13 [Checked 2015-05-13]
New	New as from SwePub MODS 2.6
List of values	Swedish classification of output http://info.swepub.kb.se/leverans-av-data/format-och-praxis/
Discussion	Using new specific output types for classification purposes is recommended as far as possible. If no logical output type exists for an output, it is possible to use the category "other" under top categories.

10.2.1 Output type – code

Element name	genre (type outputType)
Purpose	To describe output type according to new document types
Sub-elements	-
Attributes	authority; type
Usage	M - Mandatory
Praxis	Use instead of the old publication type codes according to the Swedish classification of output
Motivation	The new output types are more specific and up-to-date
Code example	<genre authority="kb.se" type="outputType">publication/book-chapter </genre>
Version/date	2.6 / 2015-05-13 [Checked 2015-05-13]
New	New as from SwePub MODS 2.6
List of values	Swedish classification of output http://info.swepub.kb.se/leverans-av-data/format-och-praxis/
Discussion	Using new specific output types for classification purposes is recommended as far as possible. If no logical output type exists for an output, it is possible to use the category "other" under top categories.

10.2.2 Output type - artistic

Element name	genre (type outputType)
Purpose	Double classification with outputType <i>ArtisticWork</i> creates a possibility for a number of artistic outputs
Sub-elements	-
Attributes	authority; type
Usage	A - Mandatory if applicable for artistic outputs
Praxis	Due to backwards compatibility with SwePub MODS 2.0 the SVEP <i>publicationType</i> classification <i>ovr</i> has been used in combination with the <i>outputType ArtisticPerformance</i> from version 2.3. For new artistic output use instead <i>ArtisticWork</i> in combination with new output types according to the Swedish classification of output.

Motivation	Use as additional information for text-based publications that are classified as artistic output
Code example	<genre authority="kb.se" type="outputType">publication/book-chapter </genre> <genre authority="kb.se" type="outputType">artistic-work </genre>
Version/date	2.3 / 2014-04-10, 2.6/2015-05-13 [Revised 2015-05-13]
New	Double classification with new output types as artistic
List of values	For new artistic output see the Swedish classification of output http://info.swepub.kb.se/leverans-av-data/format-och-praxis/
Discussion	Double classification creates the possibility to flag text-based publications as artistic works.

11 Content type

Element name	genre (type contentType)
Purpose	Element used to describe the scientific level and/or target group for the resource
Sub-elements	-
Attributes	type; authority
Usage	M - mandatory
Praxis	Use to indicate the scientific level and the target group for the resource
Motivation	Used for filtering in SwePub search system
Code example	<genre authority="svep" type="contentType">ref</genre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]
List of values	ref (refereed); vet (other scientific); pop (popular science)
Discussion	This data is used for selection in the SwePub search system and kept for backwards compatibility. Input in local systems is not considered to be harmonised enough to make this information suitable for statistical analysis.

12 Publication status

Element name	note (type publicationStatus)
Purpose	To mark the status of records for unpublished works being harvested to the SwePub system
Sub-elements	-
Attributes	type
Usage	A - Mandatory for non-published works
Praxis	Use in any record for a work that has not been formally published
Motivation	Used to distinguish published works from non-published works in analyses
Code example	<note type="publicationStatus">Accepted</note>
Version/date	2.5 / 2014-06-25 [Checked 2015-04-23]
List of values	Preprint; Submitted; Accepted; In press; Epub ahead of print/Online first; Published
Discussion	Since the SwePub system will deliver publication records for researcher CV's in the application system Prisma, there is a need for the system to contain information for unpublished works. To be able to separate records for published works from records for

	<p>unpublished works, the data format has to include a way to mark records for works that are not published.</p> <p>The use of <i>note type publicationStatus</i> is mandatory for all works that are not formally published. For published works the use of <i>note type publicationStatus="Published"</i> is optional.</p> <p>The actual status of an unpublished work is not used centrally for analysis, but is a matter of local choice. The information is only used centrally to distinguish published works from unpublished works.</p>
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13 Names and affiliations

Element name	name
Purpose	The name of a person, organisation, or event (conference, meeting, etc.) associated in some way with the resource
Sub-elements	namePart; role; affiliation; description
Attributes	type (personal; corporate; conference); authority; xlink; lang
Usage	A - Mandatory for originators affiliated with the organisation responsible for entering the record
Praxis	All originators related to the organisation registering the record must be represented by a <i>name</i> element each
Motivation	Name is a wrapper element that contains all sub-elements related to name information
Code example	<pre><name> <namePart> ... </namePart> <role> ... </role> <affiliation> ... </affiliation> <description> ... </description> </name></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

13.1 Person name, identifier and affiliation

Element name	name (type personal)
Purpose	Name, identifiers and affiliation for a person with a relation to the resource
Sub-elements	namePart; role; affiliation; description
Attributes	authority; xlink; lang
Usage	A - Mandatory for originator persons related to the organisation responsible for entering the record
Praxis	All originator persons related to the organisation registering the record must be represented by a name element each
Motivation	Researchers and their affiliations need to be identified for researcher-based publication statistics for researchers or related organisations
Code example	<pre><name xmlns:xlink="http://www.w3.org/1999/xlink" type="personal" authority="hh" xlink:href="je4xe"> <namePart> ... </namePart> <role> ... </role> <affiliation> ... </affiliation> <description> ... </description> </name></pre>
Version/date	2.1 / 2014-02-21 [Checked 2015-04-23]
New	The SwePub authorised organisation identifier for the organisation responsible for the

	identifier used in xlink:href must be given in the attribute authority, if an xlink:href identifier is given. This is usually the first part of the organisation's internet domain name.
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13.1.1 Name Part

Element name	namePart
Purpose	Parts of a personal name
Sub-elements	-
Attributes	type (date; family; given)
Usage	M - Mandatory
Praxis	The use of separate name parts given and family name is recommended for easier identification, especially for person name elements without supplied ID's
Motivation	The use of name parts makes extraction of publications based on researcher names more exact and makes merging of name entries easier and safer
Code example	<pre><name ... > <namePart type="family">Bengtsson</namePart> <namePart type="given">Jerker</namePart> <namePart type="date">1965</namePart> </name></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

13.1.2 Person identifier ORCID

Element name	description (type orcid)
Purpose	Identifier for the element <i>name type personal</i>
Sub-elements	-
Attributes	type (orcid); xsi:type (identifierDefinition)
Usage	A - Mandatory if applicable. Use for originators with a relation to the organisation entering the record, if the person has an ORCID
Praxis	Use ORCID where possible. Enter the ORCID as a 19 character long string in the format XXXX-XXXX-XXXX-XXXX
Motivation	Global identifiers are needed to make extraction of publication records based on author identities more stable
Code example	<pre><name ... > <description xsi:type="identifierDefinition" type="orcid"> 0000-0002-6848-3956 </description> </name></pre>
Version/date	2.2 / 2014-03-01 [Checked 2015-04-23]
New	description type orcid was introduced in SwePub MODS 2.2
List of values	Registered ORCID ID:s, see https://orcid.org/orcid-search/quick-search
Discussion	The use of a personal ORCID identifier is highly recommended, to improve retrieval of records based on researcher identities

13.1.3 Affiliation

Element name	affiliation
Purpose	Contains the name of an organisation, institution, etc. with which the entity recorded in <i>name</i> was associated at the time that the resource was created

Sub-elements	-
Attributes	lang; authority; xsi:type (mods:stringPlusLanguagePlusAuthority); valueURI
Usage	M - Mandatory for persons related to the organisation responsible for entering the publication record
Praxis	Originators related to the organisation responsible for entering the publication record must have an affiliation element containing information about the organisation(s) that the originator was associated with at the time the resource was created. For organisations entering data the affiliation must have a valueURI with an identifier for the top level of the organisation. Organisation identifiers do not have to be used for affiliations other than the registering organisation, but are recommended.
Motivation	Affiliations are needed in order to make author-based analyses of organisations
Code example	<pre> <name ... > <affiliation lang="swe" authority="kb.se" xsi:type="mods:stringPlusLanguagePlusAuthority" valueURI="liu.se"> Linköpings universitet </affiliation> <affiliation lang="eng" authority="kb.se" xsi:type="mods:stringPlusLanguagePlusAuthority" valueURI="liu.se"> Linköping University </affiliation> </name> </pre>
Version/date	2.1 / 2014-02-10, updated (alt. lang.) 2014-05-02 [Checked 2015-04-23]
New	xsi:type="mods:stringPlusLanguagePlusAuthority" and valueURI
List of values	Attribute values for valueURI are supplied by the National Library of Sweden (authority kb.se)
Discussion	<p>The xsi:type="mods:stringPlusLanguagePlusAuthority" inherits a general data type from the MODS schema and makes it possible to use the attributes authority and valueURI for the identification of an organisation.</p> <p>Organisations registering data are free to introduce identifiers for organisation units below the top level, but then the organisation in question must state itself as authority for the identifiers at the lower level, using the valueURI identifier from the level above as indicator of authority at the next lower level in a hierarchical mode:</p> <p>Example for an affiliation using three levels:</p> <pre> <affiliation lang="swe" authority="kb.se" xsi:type="stringPlusLanguagePlusAuthority" valueURI="lu.se">Lunds universitet</affiliation> <affiliation lang="swe" authority="lu.se" xsi:type="stringPlusLanguagePlusAuthority" valueURI="000022000">Medicinska fakulteten</affiliation> <affiliation lang="swe" authority="000022000" xsi:type="stringPlusLanguagePlusAuthority" valueURI="013230000">Kliniska vetenskaper, Lund</affiliation> </pre> <p>When locally introduced identifiers are used, it is important that the authority at a lower level corresponds to the valueURI from the level above in a hierarchical manner like this:</p> <pre> authority="kb.se" valueURI="lu.se" -> authority="lu.se" valueURI="000022000" -> authority="000022000" valueURI="013230000" </pre> <p>For non-Swedish organisations, organisation and country information may be extracted if the organisation is registered with KB and the corresponding identifier is introduced as an attribute <i>valueURI</i>:</p> <pre> <affiliation lang="eng" authority="kb.se" xsi:type="stringPlusLanguagePlusAuthority" valueURI="ethz.ch">ETH Zürich, Switzerland </pre>

	</affiliation>
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13.1.4 Affiliation, non-organisational

Element name	affiliation
Purpose	Contains the name of a non-organisational unit or entity (centre or network) that the originator is affiliated with
Sub-elements	-
Attributes	lang; authority; xsi:type (roleTermDefinition); valueURI
Usage	O - optional
Praxis	Use for analysis of non-organisational entities after registering the identifier with the National Library of Sweden
Motivation	This type of affiliation is to be used for analysis of publications from research centres or networks that span several organisational units
Code example	<pre><name ... > <affiliation xsi:type="roleTermDefinition" authority="kb.se" valueURI="e-science.se" type="code"> collaboration </affiliation> </name></pre>
Version/date	2.3 / 2014-04-08 [Checked 2015-04-23]
New	xsi:type="roleTermDefinition" and valueURI
List of values	Affiliation value: collaboration. Further values can be supplied by kb.se at future request. Attribute values for valueURI are supplied by the authority kb.se.
Discussion	This type of non-organisational affiliations are not supposed to be included among organisational affiliations when counting the fractional weight for assigning a publication to an organisation

13.1.5 Affiliation, country

Element name	affiliation
Purpose	Contains the country code of an organisation with which the entity recorded in <i>name</i> was associated at the time that the resource was created
Sub-elements	-
Attributes	lang; authority; xsi:type (mods:stringPlusLanguagePlusAuthority); valueURI
Usage	M - Mandatory for up to 10 external originators associated with organisations from countries other than Sweden
Praxis	External originators associated with organisations in countries other than Sweden at the time the resource was created, must have an affiliation element containing information about the country of the organisation. The affiliation must have a valueURI with an identifier for the country.
Motivation	Affiliations are needed in order to make international co-operation based analyses of organisations. However, in lot of cases the affiliation address is not part of the organisation registry and is missing the identifier. In that case the affiliation of the creator shall be given with "default" or "unknown" organization code that links the affiliation to its country
Code example	<pre><name ... > <affiliation lang="eng" authority="kb.se" xsi:type="stringPlusLanguagePlusAuthority" valueURI="unknown_USA">unknown </affiliation></pre>

	</name>
Version/date	2.6 / 2015-05-13 [Checked 2015-05-13]
New	xsi:type="mods:stringPlusLanguagePlusAuthority and valueURI "unknown_" with additional country code value
List of values	Attribute values for valueURI "unknown_countrycode" are supplied by the National Library of Sweden (authority kb.se)
Discussion	<p>For non-Swedish organisations, organisation and country information may be extracted if the organisation is registered with KB and the corresponding identifier is introduced as an attribute <i>valueURI</i>:</p> <pre><affiliation lang="eng" authority="kb.se" xsi:type="stringPlusLanguagePlusAuthority" valueURI="ethz.ch">ETH Zürich, Switzerland </affiliation></pre> <p>If the non-Swedish organisation is not registered, country information may be extracted from valueURI "unknown_countrycode" from the list of values supplied by the National Library of Sweden (authority kb.se).</p>

13.1.6 Role

Element name	role
Purpose	Container for information about the relationship of the entity recorded in name to the resource described in the record
Sub-elements	roleTerm
Attributes	-
Usage	M - Mandatory
Motivation	Container for role term elements
Code example	<pre><name ... > <role> <roleTerm> ... </roleTerm> </role> </name></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

13.1.6.1 Role Term

Element name	roleTerm
Purpose	The role of the entity recorded in name in relation to the resource described in the record
Sub-elements	-
Attributes	type (code); authority (marcrelator)
Usage	M - Mandatory
Praxis	-
Motivation	To be used to mark creators of the resource in analyses based on persons
Code example	<pre><name ... > <role> <roleTerm type="code" authority="marcrelator">aut</roleTerm> </role> </name></pre>
Version/date	2.5 / 2014-07-01 [Updated 2014-10-24]

List of values	All roles defined by Library of Congress' MARC relators are accepted: http://loc.gov/marc/relators/relaterm.html
Discussion	<p>Most commonly used in SwePub: author (aut), editor (edt), translator (trl).</p> <p>Roles considered as creators by default are <i>aut</i> for any type of output and <i>edt</i> for output type <i>samlingsverk</i>, <i>proceedings</i> and <i>rapport</i>.</p> <p>Mark names with roles not usually considered as creators with the extra role <i>cre</i> to make sure persons are included in analysis and <i>creatorCount</i>:</p> <pre><name ... > <role> <roleTerm type="code" authority="marcrelator">ill</roleTerm> </role> <role> <roleTerm type="code" authority="marcrelator">cre</roleTerm> </role> </name></pre>

13.2 Organisation as author

Element name	name (type corporate)
Purpose	Name and identifiers for an organisation with an originator relation to the publication
Sub-elements	affiliation; role
Attributes	type; authority; xlink:href
Usage	A – Mandatory when applicable
Praxis	Use when an organisation is the only originator of the publication
Motivation	Name type corporate is used if no person is given as author to the publication
Code example	<pre><name type="corporate"> <affiliation lang="swe" authority="kb.se" xsi:type="stringPlusLanguagePlusAuthority" valueURI="uu.se">Uppsala universitet </affiliation> <affiliation lang="eng" authority="kb.se" xsi:type="stringPlusLanguagePlusAuthority" valueURI="uu.se">Uppsala University </affiliation> <role> <roleTerm type="code" authority="marcrelator">aut</roleTerm> </role> </name></pre>
Version/date	2.5 / 2014-06-26 [Checked 2015-04-23]
New	Affiliation(s) for organisations are used in the same way as for <i>name type personal</i>

13.2.1 Affiliation

Element name	affiliation
Purpose	Contains the name of an organisation, institution, etc. with which the entity recorded in <i>name</i> was associated at the time that the resource was created
Sub-elements	-
Attributes	lang; authority; xsi:type; valueURI
Usage	M - Mandatory for names related to the organisation responsible for entering the publication record
Praxis	For organisations entering data the affiliation must have a valueURI with an identifier for

	the top level of the organisation. Organisation identifiers do not have to be used for affiliations other than the registering organisation, but are recommended.
Motivation	Affiliations are needed in order to make author-based analyses of organisations.
Code example	<pre> <name type="corporate"> <affiliation lang="swe" authority="kb.se" xsi:type="mods:stringPlusLanguagePlusAuthority" valueURI="liu.se"> Linköpings universitet </affiliation> <affiliation lang="eng" authority="kb.se" xsi:type="mods:stringPlusLanguagePlusAuthority" valueURI="liu.se"> Linköping University </affiliation> </name> </pre>
Version/date	2.1 / 2014-02-10, updated (alt. lang.) 2014-05-02 [Checked 2015-04-23]
New	xsi:type="mods:stringPlusLanguagePlusAuthority" and valueURI
List of values	Attribute values for valueURI are supplied by the authority kb.se
Discussion	The xsi:type="mods:stringPlusLanguagePlusAuthority" inherits a general data type from the MODS schema and makes it possible to use the attributes authority and valueURI for the identification of an organisation

13.2.2 Role

Element name	role
Purpose	Container for information about the relationship of the entity recorded in name to the resource described in the record
Sub-elements	roleTerm
Attributes	-
Usage	M - Mandatory
Motivation	Container for role term elements
Code example	<pre> <name type="corporate"> <role> <roleTerm>...</roleTerm> </role> </name> </pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

13.2.2.1 Role Term

Element name	roleTerm
Purpose	Designates the relationship of the entity recorded in name to the resource described in the record
Sub-elements	-
Attributes	type; authority
Usage	M – Mandatory
Code example	<pre> <name type="corporate"> <role> <roleTerm type="code" authority="marcrelator">aut</roleTerm> </role> </name> </pre>
Version/date	2.5 / 2014-06-26 [Checked 2015-04-23]

List of values	aut; edt; pbl; cre. Complete Library of Congress' list: http://www.loc.gov/marc/relators/relacode.html
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13.3 Organisation as originator

Element name	name
Purpose	Name and identifiers for an organisation with a relation to the publication
Sub-elements	namePart; role
Attributes	type; authority; xlink:href
Usage	M – Mandatory
Praxis	Use for backwards compatibility with SwePub search service
Motivation	Used for organisation information in the SwePub search service
Code example	<pre><name type="corporate" lang="swe" authority="uu" xlink:href="uu-xx"> <namePart>Uppsala universitet</namePart> <namePart>Humanistisk-samhällsvetenskapliga vetenskapsområdet</namePart> <namePart>Historisk-filosofiska fakulteten</namePart> <namePart>Litteraturvetenskapliga institutionen</namePart> <role> <roleTerm type="code" authority="marcrelator">org</roleTerm> </role> </name></pre>
Version/date	2.5 / 2014-06-26 [Checked 2015-04-23]
Discussion	In SwePub MODS 2.0 the <i>name type organisation</i> as publisher was a mandatory element. In SwePub MODS > 2.1 the use of this element is still used for backwards compatibility with the SwePub search service. The use of role <i>pbl</i> is deprecated in favour of role <i>org</i> as from SwePub MODS 2.5, but records with role <i>pbl</i> are still accepted.

13.3.1 Name Part

Element name	namePart
Purpose	Parts of an organisation name
Sub-elements	-
Attributes	-
Usage	M – Mandatory
Praxis	Designate the different parts of an organisation with repeated namePart elements in an hierarchical manner, with the main organisation at the top
Code example	<pre><name ... > <namePart>Högskolan Halmstad</namePart> <namePart>Sektionen for Informationsvetenskap, Data- och Elektroteknik (IDE)</namePart> </name></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

13.3.2 Role

Element name	role
Purpose	Container for information about the relationship of the entity recorded in name to the resource described in the record
Sub-elements	roleTerm
Attributes	-

Usage	M - Mandatory
Motivation	Container for role term elements
Code example	<pre><name ... > <role> <roleTerm>...</roleTerm> </role> </name></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

13.3.2.1 Role Term

Element name	roleTerm
Purpose	The role of the entity recorded in name in relation to the resource described in the record
Sub-elements	-
Attributes	type; authority
Usage	M - Mandatory
Code example	<pre><name ... > <role> <roleTerm type="code" authority="marcrelator">org</roleTerm> </role> </name></pre>
Version/date	2.5 / 2014-06-13 [Checked 2015-04-23]
List of values	org
Discussion	In SwePub MODS 2.5 the role was changed from <i>pbl</i> to <i>org</i> , but records delivered with role <i>pbl</i> are still accepted

14 Creator count

Element name	note (type creatorCount)
Purpose	The total number of creators to the publication
Sub-elements	-
Attributes	type; authority
Usage	M – Mandatory
Praxis	Publication type determines what name roles that count as creators. The element must contain a number > 0 and nothing else.
Motivation	The total number of creators is needed for creator-based fractionalisation
Code example	<note type="creatorCount">5</note>
Version/date	2.1 / 2014-02-10 [Checked 2015-04-23]
New	This element is new as from SwePub MODS 2.1
List of values	1-
Discussion	<p>This element is mandatory to be delivered by the local system, even if all creators are registered with name elements in the publication record.</p> <p>If all creators are registered, <i>creatorCount</i> may be generated automatically by the local system though the following scheme of combinations of roles and publication types:</p> <ul style="list-style-type: none"> • Role <i>aut</i> -> creator • Role <i>edt</i> in combination with output types <i>samlingsverk</i>, <i>proceedings</i> and <i>rapport</i> -

	<ul style="list-style-type: none"> > creator • Role <i>cre</i> -> creator
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15 Contracts, projects, programmes and strategic initiatives

Element name	extension
Purpose	To make analysis of results of projects, programmes and strategic initiatives possible by linking publication output to contract numbers and other financial information
Sub-elements	affiliation
Attributes	displayLabel
Usage	O - Optional
Praxis	Use with works that should be marked for analysis in relation to projects, contracts or strategic initiatives
Motivation	To make analysis of results of projects, programmes and strategic initiatives possible
Code example	<pre><extension displayLabel="Optimized public procurement of bustransports"> <affiliation>project</affiliation> </extension> <extension displayLabel="Optimized public procurement of bustransports"> <affiliation>grantAgreement</affiliation> </extension> <extension displayLabel="Linnaeus Research Environments"> <affiliation>initiative</affiliation> </extension> <extension displayLabel="Horizon 2020"> <affiliation>programme</affiliation> </extension></pre>
Version/date	2.4 / 2014-05-02 [Checked 2015-04-23]
New	This element is new as from SwePub MODS 2.4
Discussion	<p>The element <i>extension</i> is repeatable, so any combination of contracts, projects and programmes may be entered for each publication record.</p> <p>The value of the <i>displayLabel</i> attribute is preferably the name of the project, as fetched from the authority source.</p>

15.1 Contract, project and programme "affiliation"

Element name	affiliation
Purpose	To make analysis of results of projects, programmes and strategic initiatives possible by linking publication output to contract numbers and other financial information
Sub-elements	affiliation
Attributes	authority; value
Usage	O - Optional
Praxis	Use with works that should be marked for analysis in relation to projects, contracts or strategic initiatives
Motivation	To make analysis of results of projects, programmes and strategic initiatives possible
Code example	<pre><extension displayLabel="Optimized public procurement of bustransports"> <affiliation xsi:type="roleTermDefinition" authority="swecris.se" valueURI="SM11-0000" type="code">project</affiliation> </extension> <extension displayLabel="Optimized public procurement of bustransports"> <affiliation xsi:type="roleTermDefinition" authority="swecris.se" valueURI="SM11-0044" type="code">grantAgreement</affiliation></pre>

	<pre> </extension> <extension displayLabel="Linnaeus Research Environments"> <affiliation xsi:type="roleTermDefinition" authority="swecris.se" valueURI="lre2008" type="code">initiative</affiliation> </extension> <extension displayLabel="CARER-projekt"> <affiliation xsi:type="roleTermDefinition" authority="liu.se" valueURI="zxc456" type="code">project</affiliation> </extension> <extension displayLabel="Horizon 2020"> <affiliation xsi:type="roleTermDefinition" authority="cordis.europa.eu" valueURI="horizon2020" type="code">programme</affiliation> </extension> </pre>
Version/date	2.4 / 2014-05-02 [Checked 2015-04-23]
List of values	grantAgreement; project; initiative; programme
Discussion	<p>The identifiers should be registered in the Swedish national system swecris.se before use and swecris.se is pointed out as authority for the identifiers. Any organisation wishing to make analyses on projects or initiatives not registered in swecris.se will have to state itself as authority for the identifier according to the following:</p> <pre> <extension displayLabel="CARER-projekt"> <affiliation xsi:type="roleTermDefinition" authority="liu.se" valueURI="zxc456" type="code">project</affiliation> </extension> </pre> <p>For EU-financed projects it is recommended that the EU Community Research and Development Information Service – Cordis – is given as authority:</p> <pre> <extension displayLabel="OpenAIREplus"> <affiliation xsi:type="roleTermDefinition" authority="cordis.europa.eu" valueURI="EC/FP7/283595" type="code">project</affiliation> </extension> </pre>

16 Publication date and publisher

Element name	originInfo
Purpose	Container element for information about the origin of the resource
Sub-elements	publisher; place; dateIssued
Attributes	-
Usage	M - Mandatory
Code example	<pre> <originInfo> <dateIssued> ... </dateIssued> <publisher> ... </publisher> <place> <placeTerm> ... </placeTerm> </place> </originInfo> </pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

16.1 Publication date

Element name	dateIssued
Purpose	The date or year the resource was published
Sub-elements	-
Attributes	encoding (iso8601);
Usage	A – Mandatory if the publication is formally published
Praxis	Enter publication year as 4 digits in a format according to ISO 8601 (format YYYY) or full

	publication date according to ISO 8601 (YYYY-MM-DD) and no other data, to ensure machine readability. If no encoding is given, ISO 8601 is assumed as default.
Motivation	This data is vital for time-based statistical analysis
Code example	<pre><originInfo> <dateIssued>1994</dateIssued> </originInfo></pre>
Version/date	2.0 / 2012-10-10 [Amended 2014-08-29]
Discussion	Publication date is mandatory only for published publications. For publication records with a note type="publicationStatus" with a value other than "Published," publication date is optional.

16.2 Publisher

Element name	publisher
Purpose	The name of the organisation that is responsible for the dissemination of the resource
Sub-elements	-
Attributes	-
Usage	A – Mandatory if applicable
Praxis	Use whenever publisher information for the resource is available
Motivation	Used in publication channel analysis
Code example	<pre><originInfo> <publisher>Cambridge University Press</publisher> </originInfo></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

16.3 Place

Element name	place (with sub-element placeTerm)
Purpose	The geographic location of the publisher
Sub-elements	placeTerm
Attributes	-
Usage	O - Optional
Code example	<pre><originInfo> <place> <placeTerm>Cambridge</placeTerm> </place> </originInfo></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

17 Source

Element name	relatedItem
Purpose	Container for information about serial or monographic work of which the described work is a part
Sub-elements	titleInfo; identifier; part
Attributes	type (host; series)
Usage	A – Mandatory when the resource is published as a part of another work
Praxis	Supply the title and ISBN/ISSN for the host publication, and volume, issue and pages where

	applicable
Motivation	Information about source publication is important for channels analysis.
Code example	<pre> <relatedItem ...> <titleInfo> <title> ... </title> </titleInfo> <identifier type="issn"> ... </identifier> <part> <detail type="volume"> <number> ... </number> </detail> <detail type="issue"> <number> ... </number> </detail> <extent> <start> ... </start> <end> ... </end> </extent> </part> </relatedItem> </pre>
Version/date	2.0 / 2012-10-10 [Revised 2014-08-29]

17.1 Journal or book as source

Element name	relatedItem (type host)
Purpose	Container for information about serial or monographic work of which the described work is a part
Sub-elements	titleInfo; identifier; part; note
Attributes	type (host)
Usage	A – Mandatory when the resource is a part of another work
Praxis	Supply the title and ISBN/ISSN for the host publication, and volume, issue and pages where applicable
Motivation	Information about source publication is important for channels analysis
Code example	<pre> <relatedItem type="host"> <titleInfo> <title> ... </title> </titleInfo> <identifier type="issn"> ... </identifier> <part> <detail type="volume"> <number> ... </number> </detail> <detail type="issue"> <number> ... </number> </detail> <extent> <start> ... </start> <end> ... </end> </extent> </part> <note> ... </note> </relatedItem> </pre>
Version/date	2.0 / 2012-10-10 [Updated 2015-05-13]

17.2 Series as source

Element name	relatedItem (type series)
---------------------	---------------------------

Purpose	Container for information about a series of publications of which the described resource is a part
Sub-elements	titleInfo; identifier
Attributes	type (series)
Usage	A – Mandatory when the resource is a part of a series
Praxis	Use when the publication is part of a series. Supply the title and ISSN for the publication series and part where applicable
Code example	<pre><relatedItem type="series"> <titleInfo> <title> ... </title> </titleInfo> <identifier type="issn"> ... </identifier> <identifier type="issue number"> ... </identifier> </relatedItem></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

17.3 Source title

Element name	titleInfo (and sub-element title)
Purpose	Container for source title information
Sub-elements	title
Attributes	-
Usage	M – Mandatory if applicable
Praxis	Use full titles of journals and source publications
Code example	<pre><relatedItem ... > <titleInfo> <title>Journal of Applied Ecology</title> </titleInfo> </relatedItem></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

17.4 Source identifiers

Element name	identifier
Purpose	Use to identify the source publication and match it uniquely against lists of publication channels.
Sub-elements	-
Attributes	type
Usage	M – Mandatory if applicable
Praxis	Register only one ISSN number per element. Use repeated elements if there are several ISSN's for different versions of the publication.
Motivation	This is an important element for the matching of publication channels.
Code example	<pre><relatedItem ... > <identifier type="issn">1057-9478</identifier> <identifier type="issn">1057-9445</identifier> </relatedItem></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]
Discussion	<i>identifier type issn</i> can be repeated for different ISSN's for printed and electronic edition of

	source publication
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17.5 Source volume, issue and pages

Element name	part
Purpose	Container for information about volume, issue and pages in the source publication
Sub-elements	detail; extent
Attributes	-
Usage	M – Mandatory if applicable
Code example	<pre><relatedItem type="host"> <part> <detail type="volume"> <number>31</number> </detail> <detail type="issue"> <number>3</number> </detail> <extent> <start>11</start> <end>23</end> </extent> </part> </relatedItem></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

17.5.1 Source volume and issue

Element name	detail
Purpose	Container for information about volume, issue and pages in the source publication.
Sub-elements	-
Attributes	type (volume; issue; citation)
Usage	M – Mandatory if applicable
Praxis	-
Motivation	-
Code example	<pre><relatedItem type="host"> <part> <detail type="volume"> <number>31</number> </detail> <detail type="issue"> <number>3</number> </detail> <detail type="citation"> <caption>Vol. 31, no. 3, p. 30-38</caption> </detail> </part> </relatedItem></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]
Discussion	The <i>detail type citation</i> with <i>caption</i> is to be used as an alternative to <i>detail type volume/issue</i> and <i>extent</i> when splitting over several elements is impractical.

17.5.2 Source start and end page

Element name	extent (with sub-elements start and end)
---------------------	--

Purpose	Container for start and end pages in the source publication
Sub-elements	start; end
Attributes	-
Usage	M – Mandatory if applicable
Praxis	-
Motivation	-
Code example	<pre><relatedItem type="host"> <part> <extent> <start>11</start> <end>23</end> </extent> </part> </relatedItem></pre>
Version/date	2.0 / 2012-10-10 [Updated 2014-10-24]
Discussion	The <i>detail type citation</i> with caption is to be used as an alternative to <i>detail type volume/issue</i> and <i>extent</i> when splitting over several elements is impractical.

17.5.3 Source article number

Element name	detail
Purpose	Container for publications with article number in the source publication
Sub-elements	-
Attributes	type (artNo)
Usage	M – Mandatory for resources that have article numbers instead of pages
Praxis	Use if the source publication uses article numbering instead of paging
Motivation	Use for publications with article number instead of start and end pages in the source publication
Code example	<pre><relatedItem type="host"> <part> <detail type="volume"> <number>31</number> </detail> <detail type="issue"> <number>3</number> </detail> <detail type="artNo"> <number>5</number> </detail> </part> </relatedItem></pre>
Version/date	2.6 / 2015-05-13 [Checked 2015-05-13]
New	New as from SwePub MODS 2.6

17.5.4 Source part

Element name	identifier (type issue number)
Purpose	Container for information about a series of publications of which the described resource is a part
Sub-elements	-

Attributes	type (issue number)
Usage	M – Mandatory when the resource is a part of a series
Praxis	Use when the publication is part of a series
Code example	<pre><relatedItem type="series"> <identifier type="issue number">1008</identifier> </relatedItem></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

17.5.5 Source note thesis

Element name	note
Purpose	Container for information about a thesis of which the described work is a part
Sub-elements	-
Attributes	-
Usage	A – Mandatory when the resource is a part of a thesis
Praxis	Add an additional host and supply the note <i>thesis</i> when the resource is also a part of a compilation thesis Supply the title and ISBN/ISSN for the compilation thesis, and volume, issue and pages where applicable
Motivation	Information about source publication is important for the purpose of publication channel analysis
Code example	<pre><relatedItem type="host"> <titleInfo> <title> ... </title> </titleInfo> <identifier type="isbn"> ... </identifier> <part> <detail type="volume"> <number> ... </number> </detail> <detail type="issue"> <number> ... </number> </detail> <extent> <start> ... </start> <end> ... </end> </extent> </part> <note>thesis</note> </relatedItem></pre>
Version/date	2.6 / 2015-05-13 [Checked 2015-05-13]
New	New as from SwePub MODS 2.6

18 Location and accessibility

Element name	location
Purpose	Container for location elements and information about the accessibility of the publication
Sub-elements	url
Attributes	-
Usage	A - Mandatory if applicable
Praxis	Use at container for URL's to the publication full text and information about the

	accessibility of the publication
Motivation	Accessibility information will be used for statistics regarding open access publishing
Code example	<pre><location> <url> ... </url> </location></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-05-13]

18.1 URL

Element name	url
Purpose	URL's to the publication full text and information about the accessibility of the publication
Sub-elements	-
Attributes	usage; note; displayLabel
Usage	A - Mandatory if applicable
Praxis	URL's with the attribute <i>usage="primary"</i> should be an auto-generated link to the full text located in the local repository and must not be possible to enter manually. Manually entered URL's must not have the attribute <i>usage="primary"</i> .
Motivation	Information to be used for statistics on open access to publications
Code example	<pre><location> <url note="free/2015-01-01" usage="primary" displayLabel="FULLTEXT">http://hh.diva- portal.org/smash/get/diva2:239322/FULLTEXT01</url> </location></pre>
Version/date	2.4 / 2014-05-05 [Checked 2015-04-23]
New	Embargo dates in notes and <i>usage="primary"</i> is new as from SwePub MODS 2.4
Discussion	<p>If a publication full text is free to access, this is to be indicated in the location <i>url</i> with the attribute <i>note="free"</i>.</p> <p>If the publication full text has an embargo, the date for the end of the embargo period should be entered as part of the note: <i>note="free/2015-01-01"</i>.</p> <p>If the information about the availability of the publication full text is auto-generated from the local repository, the information is considered to be of best quality for statistics and should therefore be indicated with the attribute <i>usage="primary"</i>.</p> <p>The attribute <i>displayLabel="FULLTEXT"</i> is used by the SwePub search service and has to be maintained for backwards compatibility.</p> <p>Below is a list of examples of publication with varying accessibility:</p> <p>Immediately free access in the local repository:</p> <pre><location> <url note="free" usage="primary" displayLabel="FULLTEXT">http://hh.diva- portal.org/smash/get/diva2:239322/FULLTEXT01</url> </location></pre> <p>Embargoed access in the local repository:</p> <pre><location> <url note="free/2015-01-01" usage="primary" displayLabel="FULLTEXT">http://hh.diva- portal.org/smash/get/diva2:239322/FULLTEXT01</url> </location></pre> <p>Free access to the publication elsewhere than the local repository:</p> <pre><location> <url note="free" displayLabel="FULLTEXT">http://www.ncbi.nlm.nih.gov/pmc/articles/PMC27467 82/</url></pre>

	<pre></location></pre> <p>Embargoed access elsewhere than the local repository:</p> <pre><location> <url note="free/2015-01-01" displayLabel="FULLTEXT">http://arxiv.org/abs/1310.2314</url> </location></pre> <p>Publications with limited or unknown access conditions for the full text:</p> <pre><location> <url displayLabel="FULLTEXT"> http://www.nature.com/ncomms/2014/full/ncomms4557.html </url> </location></pre>
--	---

19 Physical description

Element name	physicalDescription
Purpose	Container for the physical description of the resource
Sub-elements	form; extent
Attributes	displayLabel
Usage	A – Mandatory if the item is published in a local repository
Code example	<pre><physicalDescription> <form> ... </form> <extent> ... </extent> </physicalDescription></pre>
Version/date	2.0 / 2012-10-10 [Checked 2014-04-23]

19.1 Physical form

Element name	form
Purpose	The physical form of the record item
Sub-elements	-
Attributes	authority (marcform)
Usage	A – Mandatory if the item is published digitally in a local repository
Code example	<pre><physicalDescription> <form authority="marcform">electronic</form> </physicalDescription></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]
List of values	print; electronic

19.2 Physical extent

Element name	extent
Purpose	The physical extent of the resource
Sub-elements	-
Attributes	-
Usage	O – Optional
Code example	<pre><physicalDescription> <extent>1 bordsduk : blå- och vitrutig ; 90 x 90 cm</extent> </physicalDescription></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

20 Resource type

Element name	typeOfResource
Purpose	Use to describe the media type of the resource
Sub-elements	-
Attributes	collection; manuscript
Usage	A – Optional for media types other than text
Praxis	Use for resources with media types other than text
Motivation	To be used for analyses of output from artistic research
Code example	<typeOfResource>still image</typeOfResource>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]
List of values	text; cartographic; notated music; sound recording; sound recording-musical; sound recording-nonmusical; still image; moving image; three dimensional object; software, multimedia; mixed material http://www.loc.gov/standards/mods/mods-outline-3-5.html#typeOfResource

21 Notes

Element name	note
Purpose	Use for extra information about the resource
Sub-elements	-
Attributes	lang; xmlns:xlink
Usage	O - Optional
Code example	<note xmlns:xlink="http://www.w3.org/1999/xlink"> Parallel text in Russian and English </note>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

22 Appendices

22.1 OAI-PMH request and elements outside of MODS metadata container

The OAI-PMH XML code is not part of the actual SwePub MODS, but is a record container that is mandatory for record exchange through OAI-PMH and therefore listed here for completeness. The *OAI-PMH* request element contains the *ListRecords* sub-element that contains the full list of records with headers and MODS metadata.

Element name	OAI-PMH
Purpose	The OAI-PMH protocol request header and wrapper for the full record set
Sub-elements	responseDate, request, ListRecords
Attributes	xmlns, xmlns:xsi, xsi:schemaLocation
Usage	M - Required for an OAI-PMH request
Motivation	Used to wrap a set of SwePub metadata records resulting from an OAI-PMH request
Code example	<OAI-PMH xmlns="http://www.openarchives.org/OAI/2.0/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.org/OAI/2.0/OAI-PMH.xsd"> <responseDate>... </responseDate> <request verb="ListRecords" metadataPrefix="swepub_mods" set="xx"> ... </request>

	<pre><ListRecords> ... </ListRecords> </OAI-PMH></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

22.1.1 Response Date

Element name	responseDate
Purpose	Date of the transmission of data
Sub-elements	-
Attributes	-
Usage	M - Mandatory
Motivation	For statistics and house-keeping
Code example	<pre><OAI-PMH> <responseDate>2014-02-05T13:08:39Z</responseDate></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

22.1.2 Request

Element name	request
Purpose	Information on the purpose of the request
Sub-elements	-
Attributes	verb, metadataPrefix, set
Usage	M - Mandatory
Code example	<pre><OAI-PMH> <request verb="ListRecords" metadataPrefix="swepub_mods" set="xx">http://api.libris.kb.se/swepub/oaipmh </request></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

22.1.3 List of Records

Element name	ListRecords
Purpose	XML container for SwePub metadata records
Sub-elements	record
Attributes	metadataPrefix
Usage	M - Mandatory
Code example	<pre><OAI-PMH> <ListRecords> <record> ... </record> <record> ... </record> </ListRecords> </OAI-PMH></pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

22.1.3.1 Metadata Record

Element name	record
Purpose	The XML container for the publication metadata record
Sub-elements	header, metadata

Attributes	-
Usage	M - Mandatory
Motivation	Container for parts of SwePub metadata record
Code example	<pre> <OAI-PMH> <ListRecords> <record> <header> ... </header> <metadata> ... </metadata> </record> </ListRecords> </OAI-PMH> </pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

22.1.3.2 Record Header

Element name	header
Purpose	Header for record metadata outside of MODS metadata
Sub-elements	identifier; datestamp; setSpec
Attributes	-
Usage	M - Mandatory
Motivation	Used to identify record and last modification data for incremental updates
Code example	<pre> <OAI-PMH> <ListRecords> <record> <header> <identifier>oai:services.scigloo.org:161722</identifier> <datestamp>2014-05-08T19:16:30Z</datestamp> <setSpec>SCIGLOO_SWEPUB</setSpec> </header> </record> </ListRecords> </OAI-PMH> </pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]
Discussion	Sub-elements identifier, datestamp and setSpec are not documented separately; only by example above to save space

22.1.3.3 Metadata

Element name	metadata
Purpose	XML container for MODS metadata
Sub-elements	mods
Attributes	-
Usage	M - Mandatory
Motivation	A single manifestation of the metadata from an item
Code example	<pre> <OAI-PMH> <ListRecords> <record> <metadata> ... </metadata> </record> </ListRecords> </OAI-PMH> </pre>
Version/date	2.0 / 2012-10-10 [Checked 2015-04-23]

22.1.3.4 MODS root element

Element name	mods
Purpose	The MODS metadata wrapper
Sub-elements	All applicable MODS top-level elements and sub-elements
Attributes	xmlns, xmlns:xsi, xsi:schemaLocation
Usage	M - Mandatory
Motivation	Metadata wrapper with attributes specifying Library of Congress MODS metadata format and version as basis for SwePub MODS
Code example	<pre><OAI-PMH> <ListRecords> <record> <metadata> <mods xmlns="http://www.loc.gov/mods/v3" version="3.5" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.loc.gov/mods/v3 http://www.loc.gov/standards/mods/v3/mods-3-5.xsd"> ... </mods></pre>
Version/date	2.1 / 2014-02-05 [Checked 2015-04-23]
New	MODS version 3.5 ¹⁰
Discussion	MODS version > 3.5 is needed for attributes <i>stringPlusLanguagePlusAuthority</i> introduced in name and ID elements introduced in SwePub MODS > 2.0

22.2 SwePub MODS 2.6 XML record example (fictitious)

<pre><OAI-PMH xmlns="http://www.openarchives.org/OAI/2.0/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/ http://www.openarchives.org/OAI/2.0/OAI-PMH.xsd"> <responseDate>2014-06-26T10:47:22Z</responseDate> <request verb="GetRecord" metadataPrefix="swepub_mods" identifier="oai:services.scigloo.org:161722"> http://api.libris.kb.se/swepub/oaipmh </request> <GetRecord> <record> <header> <identifier>oai:services.scigloo.org:161722</identifier> <datestamp>2014-05-08T19:16:30Z</datestamp> <setSpec>SCIGLOO_SWEPUB</setSpec> <setSpec>swepub_free</setSpec> </header> <metadata> <mods xmlns="http://www.loc.gov/mods/v3" version="3.5" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.loc.gov/mods/v3 http://www.loc.gov/standards/mods/v3/mods-3-5.xsd"> <recordInfo xmlns:xlink="http://www.w3.org/1999/xlink"> <recordContentSource>cth</recordContentSource> </recordInfo> <note type="verificationStatus">not verified at registration</note> <titleInfo> <title>Modelling of the GIA-induced surface gravity change over Fennoscandia</title> <subTitle>a field study</subTitle> </titleInfo> <genre xmlns:xlink="http://www.w3.org/1999/xlink" authority="kb.se" type="outputType">publication/journal- article</genre> <genre authority="svep" type="publicationType">art</genre> <genre xmlns:xlink="http://www.w3.org/1999/xlink" authority="svep" type="contentType">ref</genre> <note type="publicationStatus">Published</note> <originInfo xmlns:xlink="http://www.w3.org/1999/xlink"> <dateIssued>2012</dateIssued> </originInfo> <subject xmlns:xlink="http://www.w3.org/1999/xlink" lang="swe" authority="hsv" xlink:href="10505"> <topic>Naturvetenskap</topic> <topic>Geovetenskap och miljövvetenskap</topic> <topic>Geofysik</topic> </subject> <subject xmlns:xlink="http://www.w3.org/1999/xlink" lang="eng" authority="hsv" xlink:href="10505"> <topic>Natural sciences</topic> <topic>Earth and Related Environmental Sciences</topic> <topic>Geophysics</topic></pre>

¹⁰ <http://www.loc.gov/standards/mods/v3/mods-3-5.xsd>

```

</subject>
<name xmlns:xlink="http://www.w3.org/1999/xlink" type="personal" authority="chalmers.se" xlink:href="perandeo">
  <namePart type="given">Per-Anders</namePart>
  <namePart type="family">Olsson</namePart>
  <namePart type="date">1971</namePart>
  <role>
    <roleTerm type="code" authority="marcrelator">aut</roleTerm>
  </role>
  <description xsi:type="identifierDefinition" type="orcid">0000-0002-3363-2368</description>
  <affiliation lang="swe" authority="kb.se" xsi:type="stringPlusLanguagePlusAuthority" valueURI="chalmers.se">
    Chalmers tekniska högskola
  </affiliation>
  <affiliation lang="swe" authority="chalmers.se" xsi:type="stringPlusLanguagePlusAuthority"
  valueURI="chalmers.se/1702">
    Institutionen för rymd- och geovetenskap, Rymdgeodesi och geodynamik
  </affiliation>
  <affiliation lang="eng" authority="kb.se" xsi:type="stringPlusLanguagePlusAuthority" valueURI="chalmers.se">
    Chalmers University of Technology
  </affiliation>
  <affiliation lang="eng" authority="chalmers.se" xsi:type="stringPlusLanguagePlusAuthority"
  valueURI="chalmers.se/1702">
    Department of Earth and Space Sciences, Space Geodesy and Geodynamics
  </affiliation>
</name>
<name xmlns:xlink="http://www.w3.org/1999/xlink" type="personal" authority="chalmers.se" xlink:href="131499">
  <namePart type="given">Jonas</namePart>
  <namePart type="family">Ågren</namePart>
  <role>
    <roleTerm type="code" authority="marcrelator">aut</roleTerm>
  </role>
</name>
<name xmlns:xlink="http://www.w3.org/1999/xlink" type="personal">
  <namePart type="given">Phil </namePart>
  <namePart type="family">Jones</namePart>
  <role>
    <roleTerm type="code" authority="marcrelator">aut</roleTerm>
  </role>
  <affiliation lang="eng" authority="kb.se" xsi:type="stringPlusLanguagePlusAuthority" valueURI="unknown_USA">
  </affiliation>
<note xmlns:xlink="http://www.w3.org/1999/xlink" type="creatorCount">3</note>
<name xmlns:xlink="http://www.w3.org/1999/xlink" type="corporate" lang="swe" authority="chalmers.se"
  xlink:href="1702">
  <namePart>Chalmers tekniska högskola</namePart>
  <namePart>Institutionen för rymd- och geovetenskap, Rymdgeodesi och geodynamik</namePart>
  <role>
    <roleTerm type="code" authority="marcrelator">org</roleTerm>
  </role>
</name>
<name xmlns:xlink="http://www.w3.org/1999/xlink" type="corporate" lang="eng" authority="chalmers.se"
  xlink:href="1702">
  <namePart>Chalmers University of Technology</namePart>
  <namePart>Department of Earth and Space Sciences, Space Geodesy and Geodynamics</namePart>
  <role>
    <roleTerm type="code" authority="marcrelator">org</roleTerm>
  </role>
</name>
<relatedItem xmlns:xlink="http://www.w3.org/1999/xlink" type="host">
  <titleInfo>
    <title>Journal of Geodynamics</title>
  </titleInfo>
  <identifier type="issn">0264-3707</identifier>
  <part>
    <detail type="volume">
      <number>31</number>
    </detail>
    <detail type="issue">
      <number>3</number>
    </detail>
    <extent>
      <start>12</start>
      <end>22</end>
    </extent>
  </part>
</relatedItem>
<relatedItem xmlns:xlink="http://www.w3.org/1999/xlink" type="host">
  <titleInfo>
    <title>On modelling of postglacial gravity change</title>
  </titleInfo>
  <identifier type="isbn">971-91-7385-902-8</identifier>
  <note>thesis</note>
</relatedItem>
<identifier xmlns:xlink="http://www.w3.org/1999/xlink" type="doi">10.1016/j.jog.2012.06.011</identifier>
<identifier xmlns:xlink="http://www.w3.org/1999/xlink" type="isi">000310108100002</identifier>
<location xmlns:xlink="http://www.w3.org/1999/xlink">
  <url>http://dx.doi.org/10.1016/j.jog.2012.06.011</url>
</location>
<typeOfResource>text</typeOfResource>
<physicalDescription xmlns:xlink="http://www.w3.org/1999/xlink">
  <form authority="marcform">electronic</form>
</physicalDescription>

```

```
<location xmlns:xlink="http://www.w3.org/1999/xlink">
  <url note="free" displayLabel="Fulltext, fritt tillgänglig">
    http://publications.lib.chalmers.se/records/fulltext/161722/local_161722.pdf
  </url>
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  This paper deals with the modelling of surface gravity change in Fennoscandia, induced by postglacial rebound ...
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