

The Use of Digital Object Identifiers in the National Diet Library Digital Collections

Saho Yasumatsu
National Diet Library,
Japan

Tomoko Okuda
National Diet Library,
Japan

The National Diet Library (NDL)



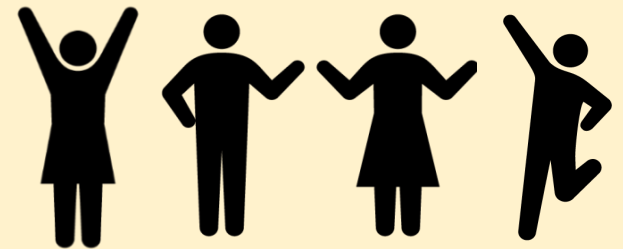
Preserve collections

Legal Deposit System



Japanese publications
(Books, Journals, etc.)

Provide



Users

Main topic of this presentation

The NDL's DOI assignment

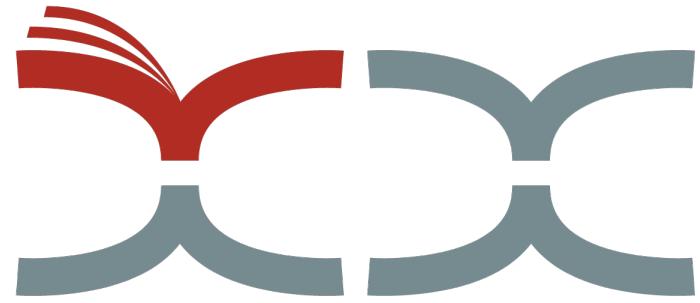
Overview

1. Role of the NDL in the operation of the Japan Link Center
2. Assignment of DOI's to the NDL Digital Collections
3. Access log analysis of the DOI assigned NDL contents
4. Issues and future plans
5. Conclusion

1. Role of the NDL in the operation of the Japan Link Center



- The only Japanese RA for DOI
- Since 2012
- Assigned approximately 2.5 million JaLC DOI's



Japan Link Center



JaLC governing body



Japan Science and Technology Agency



National Institute of Informatics



National Institute for Materials Science



National Diet Library

Connecting Japan ～ Lasting Access ～

Japan Link Center - Strategy 2017-2022

- Promote open use of DOI and metadata.
- Develop an environment for registering DOI which while retaining international coordination makes full use of a diversity of Japanese academic resources, academic environment, and language.
- Build an environment for assigning IDs to a variety of resources needed in academia.
- Promote the use of research data and contribute to implementing Open Science.
- Contribute to fostering communities.

Why the NDL participates in the JaLC

- Expand the range of materials to which DOI's are assigned

What the NDL does in the JaLC

- Formulate business plans and registration policies
- Promote the use of DOI's
- Assign DOI's to “the National Diet Library Digital Collections”

2. Assignment of DOI's to the NDL Digital Collections

The NDL Digital Collections

Language: **En**



National Diet Library Digital Collections

All ▼

Search 🔍

Advanced Search

☒ Available Online ☐ Available only at the NDL and partner libraries ☐ Available only at the NDL (?) [About Access Restrictions](#)

> [List](#)

Spotlight



外国の立法 No.272

「外国の立法」は外国の法令の翻訳、外国の立法情報を紹介しています。季刊（2008）年4月以降）があり、No.272はヨーロッパ各国と中国の主要立法を

News

> 2017-09-12

- The number of online publications of the National Diet Library (NDL) has increased. For more details, please read [the website of the NDL](#).

> 2017-08-31

- Approximately **540,000** articles and **titles** from CiNii Articles were added to the NDL Digital Collections.



[Periodicals](#) (?)



[Rare Books and Old Materials](#) (?)



[Doctoral Dissertations](#) (?)



[Official Gazettes](#) (?)



[Materials on the Allied Occupation of Japan](#) (?)



[Prange Collection](#) (?)



[Audio-Visual Materials](#) (?)



[Online Publications](#) (?)

Material Types	Number of contents in the NDL Digital Collections*	Number of contents assigned DOI's*
(1) Materials digitized by the NDL	2,660,000	235,000
Books**	2,250,000	5,000
Periodicals**		
Rare Books and Old Materials	90,000	90,000
Doctoral Dissertations	140,000	140,000
Others	170,000	0
(2) Online publications collected by the NDL**	1,030,000	6,000
Total	3,690,000	241,000

* The figures in this table are expressed as round numbers.

** We assign DOI's to items published by the NDL.

Features of assigning DOI's by the NDL



Rare Books and Old Materials



Doctoral Dissertations

Rare Books and Old Materials

Identifying the materials

Yama no sachi

Edited by SEKIJUKAN Shukoku, Illustrations by KATSUMA Ryosui (Ryusui), Published in 1765

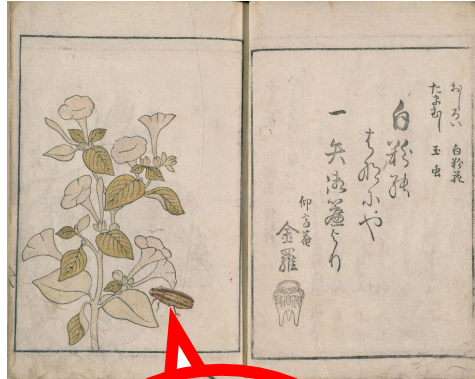
1 NDL's collection A

<https://doi.org/10.11501/10303880>



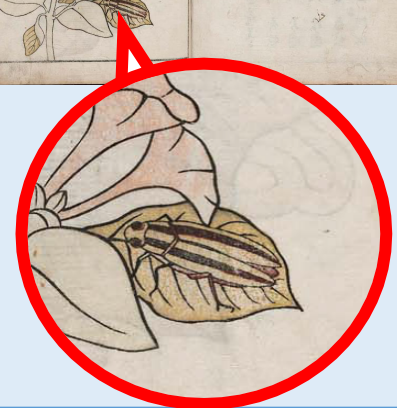
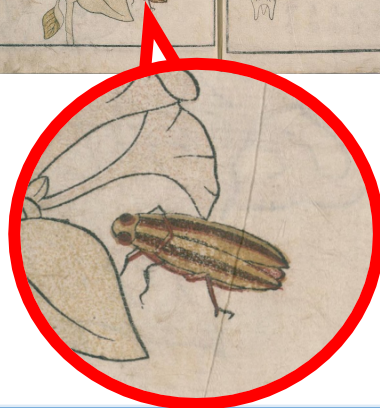
2 NDL's collection B

<https://doi.org/10.11501/2542740>



3 Museum of Fine Arts Boston's collection

<http://www.mfa.org/collections/object/yama-no-sachi-luck-of-the-mountains-529276>



Doctoral Dissertations

Cooperation with universities in assigning DOI's

<https://doi.org/10.11501/3063585>

‘multiple resolution’ system

■ DOI : 10.11501/3063585

	登録機関名	最終更新日
1	国立国会図書館 / National Diet Library	2016/08/16
2	機関リポジトリ / Institutional Repository	2017/05/10



University's website



The NDL Digital Collections

Details of DOI's

<https://doi.org/10.11501/9369444>



<http://dl.ndl.go.jp/info:ndljp/pid/9369444>

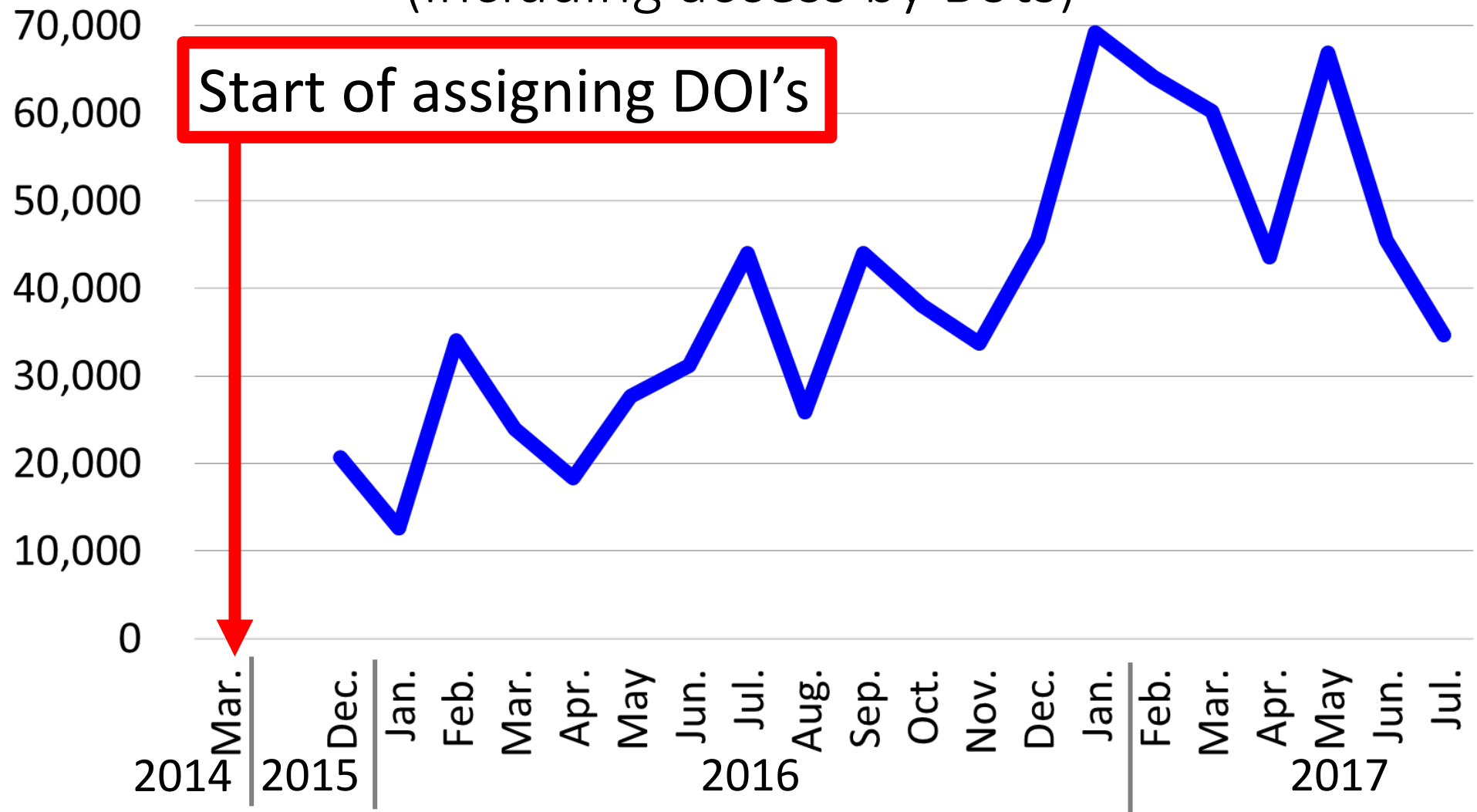
The screenshot shows the National Diet Library Digital Collections interface. The top navigation bar includes the logo, the text "National Diet Library Digital Collections", and links for "Language: English", "Top", and "About this Database". Below the navigation bar is a search bar with a "Search" button and a link to "Advanced Search". On the left side, there is a "Metadata" section with a "URL" and "Print" button. The metadata table lists various fields: "Metadata" (with a link to "Detailed Record View"), "Persistent ID" (info:ndljp/pid/9369444), "Title" (東風俗年中行事 十月), "Creator" (楊洲周延 [画]), "Publisher" (長谷川園吉), "Publication Date" (1890), "Call Number" (VF6-F2-55), "Bibliographic ID" (024121505), "DOI" (10.11501/9369444), and "Access Restrictions" (インターネット公開(保護期間満了)). A red speech bubble with a white border points to the DOI field, containing the text "DOI" and "10.11501/9369444". The background of the page shows a traditional Japanese woodblock print illustration of a woman in a kimono.

Field	Value
Metadata	Detailed Record View
Persistent ID	info:ndljp/pid/9369444
Title	東風俗年中行事 十月
Creator	楊洲周延 [画]
Publisher	長谷川園吉
Publication Date	1890
Call Number	VF6-F2-55
Bibliographic ID	024121505
DOI	10.11501/9369444
Access Restrictions	インターネット公開(保護期間満了)

3. Access log analysis of the DOI assigned NDL contents

Total access to the NDL contents via DOI's

Dec. 2015 - Jul. 2017
(including access by Bots)



Comparison of the average numbers of accesses per month

The most accessed content through DOI's during Dec. 2015 – Jul. 2017

1. Via DOI's : 20

<https://doi.org/10.11501/9396323>

2. Via NDL Digital Collection URI's : 96

<http://dl.ndl.go.jp/info:ndljp/pid/9396323>

3. Via Journal website URI's : 455

<http://current.ndl.go.jp/ca1848>

4. Issues and future plans

- Issue 1: Limited use of DOIs
 - Plan 1: Cooperating with JaLC board members to promote the use of DOIs and enhance the aggregation and reuse of metadata
- Issue 2: Insufficient usage tracking functions in the current JaLC system
 - Plan 2: Sharing the issue with the other JaLC members and give suggestions on system improvements

Good outcome of adopting DOI's

- Advanced organization-wide communications
- Inspired interest in how to manage digital objects

5. Conclusion

As a national library

The NDL will establish best practices of implementation of international standards as is the case in DOI's implementations

Thank you for your attention!
Feel free to ask any questions.

Saho Yasumatsu Tomoko Okuda

standardization@ndl.go.jp

References

- Assignment of a DOI name to an object by NDL. Retrieved October 23, 2017, from <http://www.ndl.go.jp/en/aboutus/doi.html>.
- Japan Link Center. Retrieved October 23, 2017, from <https://japanlinkcenter.org/top/english.html>.
- National Diet Library Digital Collection. Retrieved October 23, 2017, from http://dl.ndl.go.jp/?__lang=en.
- アクセスログに基づくJaLC DOIのアクセスの動向 + 研究内容の紹介. Retrieved October 23, 2017, from <https://speakerdeck.com/corgies/ndl20170209>.
- Kikkawa, Jiro. (2016). Roles of DOI Links in scholarly communication on the Web: Through analyses on Wikipedia. Master's Thesis (University of Tsukuba). Retrieved October 23, 2017, from <http://hdl.handle.net/2241/00145408>.