

A proposed metadata standard for recording and sharing attribution information

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Problem

- Curating and maintaining research collections is very important, but current incentives do not prioritize this work
- Creating a metadata standard for attributing this work will help people and institutions get credit - thus changing the incentive structure



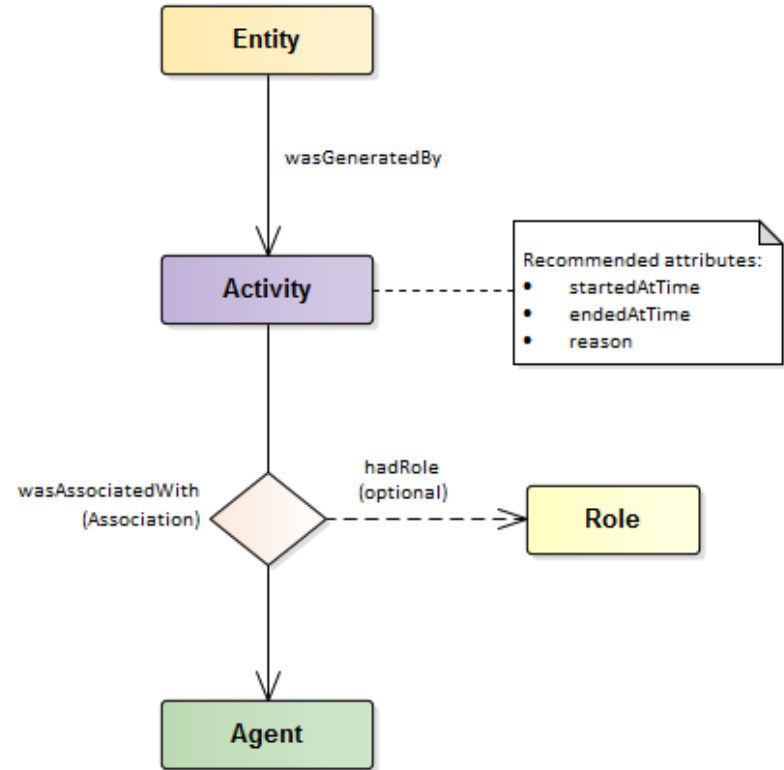
RDA/TDWG Process

- RDA: WG is 18 months old - recommendations submitted to Council and to Data Science Journal
- TDWG: IG is using RDA recommendations to justify a Darwin Core extension
 - <https://github.com/tdwg/attribution>
- Session at BiodiversityNext (TDWG)
 - *More than Names : Identifying and Crediting People in Biodiversity Data*
- Currently looking for adopters



Recommendations

- The key elements of the model for attribution are:
 - Entity wasGeneratedBy Activity
 - Activity wasAssociatedWith Agent
 - Association hadRole Role
- with some additional attributes assigned to the Activity class:
 - Activity has attribute StartDateTime
 - Activity has attribute EndDateTime
 - Activity has attribute Reason (added as comment)
- This standard needs to apply to many types of collections, not just natural history



Adopters

- Tier 1: providers of attribution metadata

- Arctos
- iDigBio
- Bloodhound
- TaxonWorks
- DISSCO



- Tier 2: consumers and presenters of attribution metadata

- ORCID
- ImpactStory
- Altmetric



What Might Adoption Look Like?

Altmetric “doughnut”
Visualization of
micro-credit for
collecting,
identifying, digitizing,
cataloguing,
photographing, etc.

Jane Smith
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Profile
Detail-oriented individual with **five years** of management experience looking to secure an **Agile Project Manager** position with ABC Company.

Education
2012 - 2014
University of Cambridge, Cambridge, England
Business Marketing
2010 - 2012
English school in London
Language Course

Experience
01.2012 - 11.2015
ABC Company
Manager
Responsibilities: coordinated tracer activities; Conducted client assessments; Screened and trained new employees
04.2009 - 11.2011
XYZ Company
Junior Project Manager
Responsibilities: managing and leading the project team; recruiting project staff and consultants; developing and maintaining a detailed project plan

Skills
✓ Good communication - written and oral skills
✓ Excellent conceptual and analytical skills
✓ Effective interpersonal skills

Certification
- Certified managers by Institute of Certified professional managers
- The financial risk manager certification

Hobbies
SEO Technology Tennis

695

Mentioned by

- 57 news outlets
- 8 blogs
- 290 tweeters
- 6 Facebook pages
- 2 Wikipedia pages
- 1 Google+ user
- 1 Redditor
- 1 video uploader

nature
COLLECTOR UNIVERSITY OF ALBERTA
PLANTA CANADENSIS IN HERBARIUM

695

Mentioned by

- 57 news outlets
- 8 blogs
- 290 tweeters
- 6 Facebook pages
- 2 Wikipedia pages
- 1 Google+ user
- 1 Redditor
- 1 video uploader

Plants of Nunavut, Canada
Fragaria virginiana Mill.
Ranunculaceae
Nunavut, Chukotka Region, Baffin Island, Foul Bay, Road
from Cape Smyth to Cape Wankarem, 12°10' 20"N,
77°37' 30" W, Altitude: 1020m, Station: 09/04, Date: 2/04
[Detailed metadata]

608814
CANADA
CAN 1001204
2012

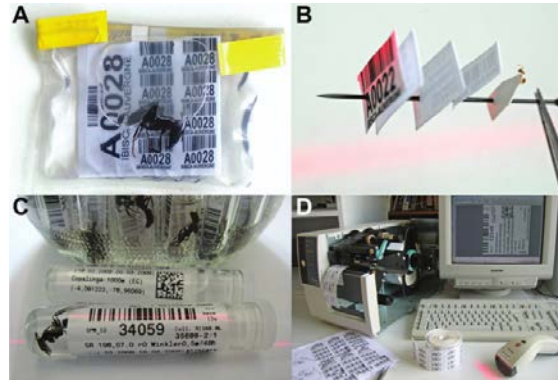
nature

Implementation Elephants

- Specimen identifiers are notoriously poor
 - Compare identifier graph
- 1000+ specimens on an ORCID profile
 - Archive lists and archive collections

DATA
FUTURES
PARTNERSHIP

Parathemisto (P.) japonica Bovallius		Cat. No.	100988
Stack	Shelf	(Size vial)	Alt. D XX 25 specimens
LOCALITY	52° 03' N., 154° 20' E. from stomach of		
	<u>Oncorhynchus nerka</u>		
Station	38Z	DEPTH	When collected Aug. 10, 1955
Collected by	W. Aaron		
Received	Nov. 1956 from "Univ. of Wash.		
Remarks	GC		
Identified by	T. E. Bowman	Acc. No.	212615
U. S. NATIONAL MUSEUM GPO 16-41434-1 DIVISION OF MARINE INVERTEBRATES			



ORCID Pilot Projects

David Peter Shorthouse

ORCID iD

<https://orcid.org/0000-0001-7618-5230>

Works (15 of 15)

Natural history specimens collected and/or identified and deposited.

Zenodo
2019-05-05 | data-set
DOI: 10.5281/zenodo.2667809

Source: DataCite ★ Preferred source

Natural history specimens collected and/or identified and deposited.

Zenodo
2019-05-05 | data-set
DOI: 10.5281/zenodo.2667631

Source: DataCite ★ Preferred source

May 5, 2019

Dataset Open Access

Natural history specimens collected and/or identified and deposited.

Shorthouse, David Peter

Natural history specimen data collected and/or identified by Shorthouse, David Peter, <https://orcid.org/0000-0001-7618-5230>. Claims were made on Bloodhound, <https://bloodhound-tracker.net> using specimen data from the Global Biodiversity Information Facility, <https://gbif.org>.

Preview

action	gbifID	occurrenceID	dateidentified	decimalL
recorded	1414822067	http://bins.boldsystems.org/index.php/Public_RecordView?processid=COLNF1882-15		
recorded	1414821985	http://bins.boldsystems.org/index.php/Public_RecordView?processid=COLNF1660-15		
recorded	1414822099	http://bins.boldsystems.org/index.php/Public_RecordView?processid=COLNF2036-15		
identified	769279710	urn:catalog:UASM:UASM329573	2010	56.839

Files (8.4 kB)

11

views

9

downloads

See more details...

Indexed in

OpenAIRE

Publication date:

May 5, 2019

DOI:

DOI: [10.5281/zenodo.2667809](https://doi.org/10.5281/zenodo.2667809)

Keyword(s):

[specimen](#) [natural history](#) [taxonomy](#)

License (for files):

[Creative Commons Zero v1.0 Universal](#)

Versions

Version 2 10.5281/zenodo.2667809 May 5, 2019

Version 1 10.5281/zenodo.2667632 May 5, 2019

Terminology Extensions

- ORCID is adding a “physical object” work type
- Contributor Role Ontology
 - Collector Role
 - Curator Role
- VIVO
 - Collector Role
 - Curator Role
- More candidate terms [here](#)
- What terms would you like to see?

How does attribution affect your work?

bit.ly/AttributionSurvey

Questions?

If you would like to discuss adoption, email me at annethessen@gmail.com