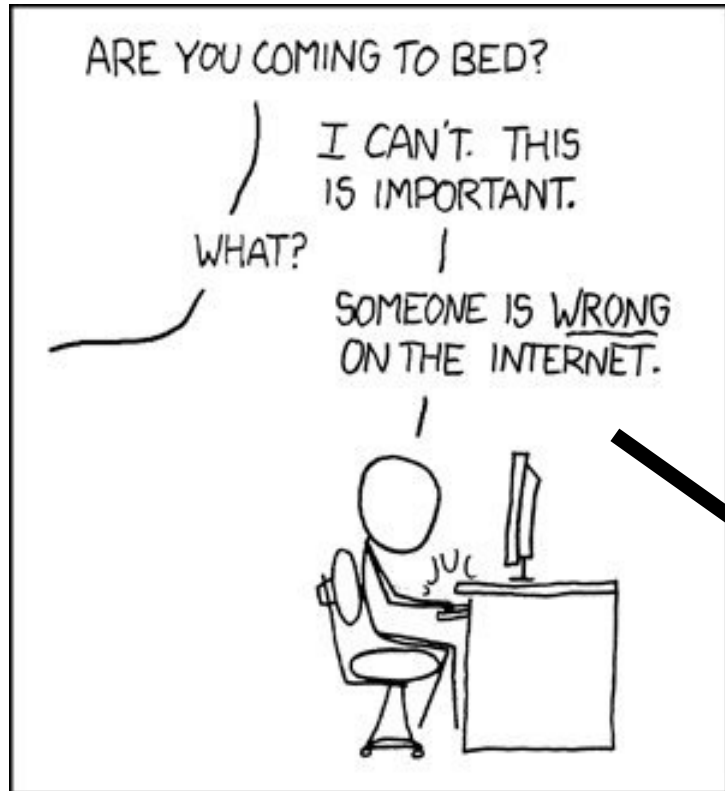


Integrating High Throughput Digitization with Distributed Software: Supporting Data Flows in the New England Vascular Plant Network with **FilteredPush** Technologies

Paul J. Morris, James Hanken, Maureen Kelly,
David B. Lowery, Bertram Ludäscher,
James A. Macklin, Chuck McCallum, Robert A. Morris,
Tianhong Song, Patrick Sweeney

Filtered Push

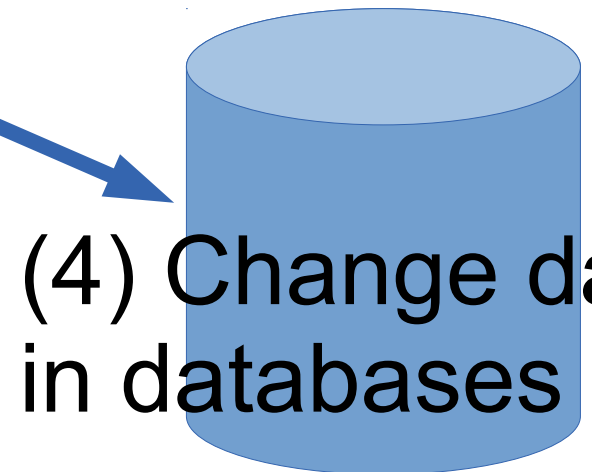


<http://xkcd.com/386/>

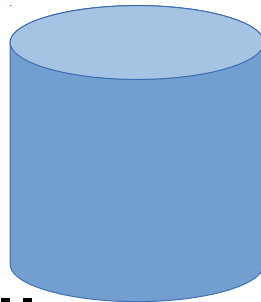
(1) Kvetch about data

(2) **Push** to interested parties

(3) Human **Filter**



(4) Change data in databases



(5) Store all assertions



CNH
Consortium of Northeastern Herbaria

About | Portal | Membership | Governance | Meetings | Resources

Portal Menu

- Search Collections
- Collections
- Species Lists
- Sitemap
- Log In
- New Account

Herbarium Specimen Data Sharing Portal for CNH

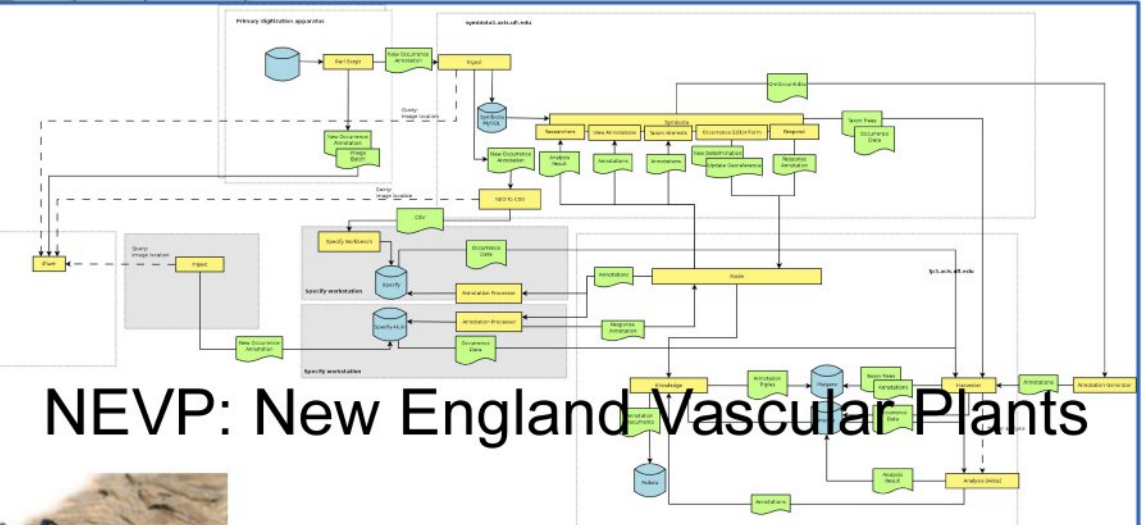
Number of records in database: 503634

About:

The CNH portal provides access to herbarium specimen data housed in member institutions on specimens collected in the region. The database includes taxa traditionally found in diatoms, algae, and lichens.

Use of any specimen data and related material (e.g., images, species checklists, etc.) requires agreement to the terms and conditions in the CNH data usage policy.

FilteredPush in Thematic Collections Networks



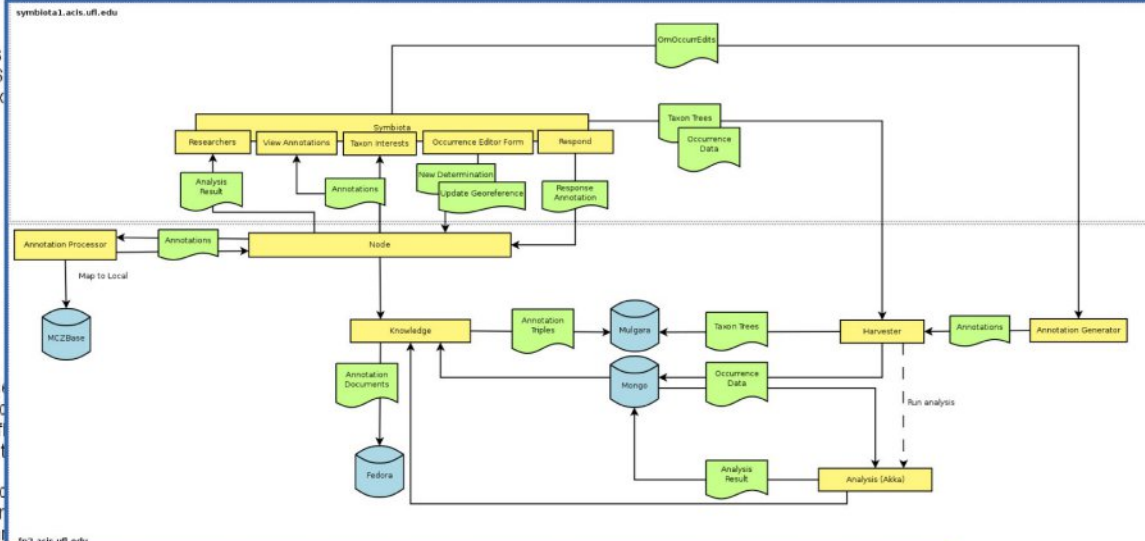
The diagram illustrates the NEVP (New England Vascular Plants) data flow and architecture. It shows a central 'Node' connected to various data sources and processing steps. Key components include: 'Primary digitization apparatus', 'Digitized data', 'Annotations', 'Taxon Trees', 'Occurrence Data', 'Analysis', 'Knowledge', 'Annotation Processor', 'Map to Local', 'MC2Base', 'Annotation Documents', 'Fedora', 'Annotation Rules', 'Mulgara', 'Taxon Trees', 'Occurrence Data', 'Harvester', 'Annotations', 'Annotation Generator', 'Run analysis', 'Analysis (Akka)', 'Analysis Result', and 'Fedora'. The flow involves digitization, annotation, storage, and analysis of specimen data.



SCAN
Southwest Collections of Arthropods Network



SCAN: Southwest Collections of Arthropods Network



The diagram illustrates the SCAN (Southwest Collections of Arthropods Network) data flow and architecture. It shows a central 'Node' connected to various data sources and processing steps. Key components include: 'Symbiota', 'Researchers', 'View Annotations', 'Taxon Interests', 'Occurrence Editor Form', 'Response', 'Analysis Result', 'Annotations', 'New Determination', 'Update Georeference', 'Response Annotation', 'Annotation Processor', 'Map to Local', 'MC2Base', 'Annotation Documents', 'Fedora', 'Annotation Rules', 'Mulgara', 'Taxon Trees', 'Occurrence Data', 'Harvester', 'Annotations', 'Annotation Generator', 'Run analysis', 'Analysis (Akka)', 'Analysis Result', and 'Fedora'. The flow involves data entry, annotation, storage, and analysis of arthropod specimen data.

SCAN Data Portal Home

- SCAN Project Website
- Background
- Search Collections
- Summary Statistics
- Image Search
- Image Browser
- Faunistic Projects
- Dynamic Checklist
- Weevils of North America
- Resources
- Calendar
- Symbiota
- Symbiota Help
- Contacts

Southwest Collections of Arthropods Network (SCAN): A Data Portal Built to Visualize, Manipulate, and Export Species Occurrences

The Southwest Collections of Arthropods Network (SCAN) data portal houses records from the Southwest and beyond in an ever-growing virtual network. Symbiota, a web-based collections database system that is used for other taxonomic groups including (Symbiota Portals).

Important features of all Symbiota databases include:

1. Easy web-based data entry.
2. Download entire datasets in two clicks.
3. Map georeferenced records in two clicks.
4. Upload high-resolution images & create species profile pages.
5. Design custom species lists for any locality at multiple scales.
6. Develop educational games with data.
7. Create taxonomic keys.

The key organizational feature is that each museum or project is listed as a separate database group that does not interfere with another. End users can select a subset. We are incorporating **Filtered Push** to enhance the capacity of far-flung contributors to identify and annotate data that may be shared across the network.

This website is the central data portal for SCAN; all other project information can be found at <http://scan1.acis.ufl.edu/>, including How-To-Guides and network updates. Our focus is on ground-dwelling arthropods, but our goal is to expand to any arthropod group to promote a North American Arthropod Database and more focused thematic data portals for specific taxa (e.g., weevils) and geographically-delineated portals.

Capture the taxon name once, apply it to all records of collection objects in a container.




Precapture



Digitization

PreCaptureApp

File Window Help

Folders

Filter Taxa by:

Family

Genus Hepatica

Taxon Hepatica acuta (Pursh) Britton

Family 1 Ranunculaceae

Subfamily 2

Tribe 3

Genus 4 Hepatica

Specific Epithet 5 acuta

Subspecific Epithet 6

Infraspecific Rank 7

Infraspecific Epithet 8

Authorship 9 (Pursh) Britton

Collection 0

Drawer Number

Number To Print 1

Print One

Add to Print List

Family	Sub...	Tribe	Gen...	Spe...	Sub...	Infra...	Infr...	Aut...	Coll...	Dra...	Nu...
Ran...			Hep...	acuta				(Pur...			1
Ran...			Hep...	hep...				(L.) ...			1
Ran...			Hep...	nob...		var.	obt...	(Pur...			1

Print

Clear

Acer saccharinum L.

15

GH

Do Not Remove
this slip from this
folder.



```
{ "m1p":"[NEVP TCN]", "m2v":"1.1", "g":"Acer",  
  "s":"saccharinum", "a":"L.", "sr":"15", "cc":"GH" }
```


NEW ENGLAND

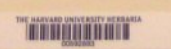


Capsella bursa-pastoris (L.) Medik.
VT
Rm 328, 19-R5, 14
Do not remove this slip from this folder.

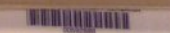


EX HERBARIUM WILLIAM DOUGLAS COUNTRYMAN
VERMONT
WASHINGTON COUNTY
NORTHFIELD
Capsella Bursa-pastoris (L.) Medic.
Weed in garden. Winch Hill.
26 May 1965
No. 1195

WM. D. COUNTRYMAN



Capsella bursa-pastoris Washington



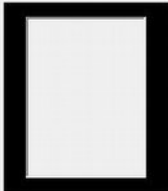
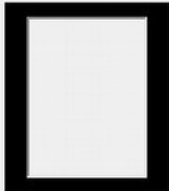




Herbarium Digitalization by OU

Settings About Help Logout

Off

006107
89

006107
88






Camera Position

Scientific Name Berteroa incana

Barcode 00610790

Genus Berteroa

Collector J. F. Collins

Species incana

Collector Number

Infraspecific Rank

Verbatim Collection Date 25 June 1935

Infraspecific Epithet

Beginning Date 1935-06-25

Scientific Name Author (L.) DC.

Ending Date

Collection Code NEBC

Town Cranston

Identification Qualifier

County

Record Entered By chris

State Rhode Island

Tags

☐ Flag Specimen
 ☐ Folder

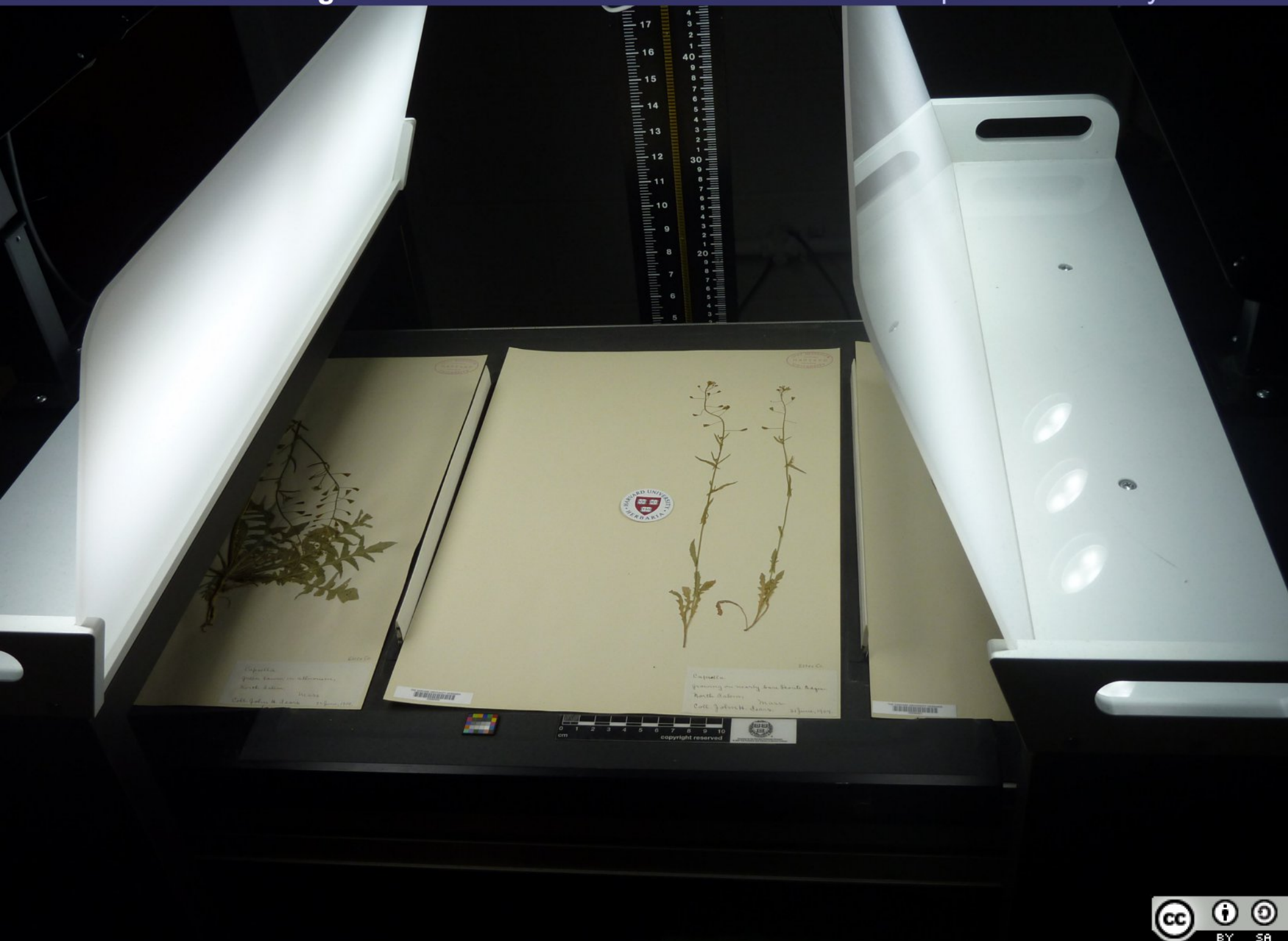
NEXT

SEND

66 Connected

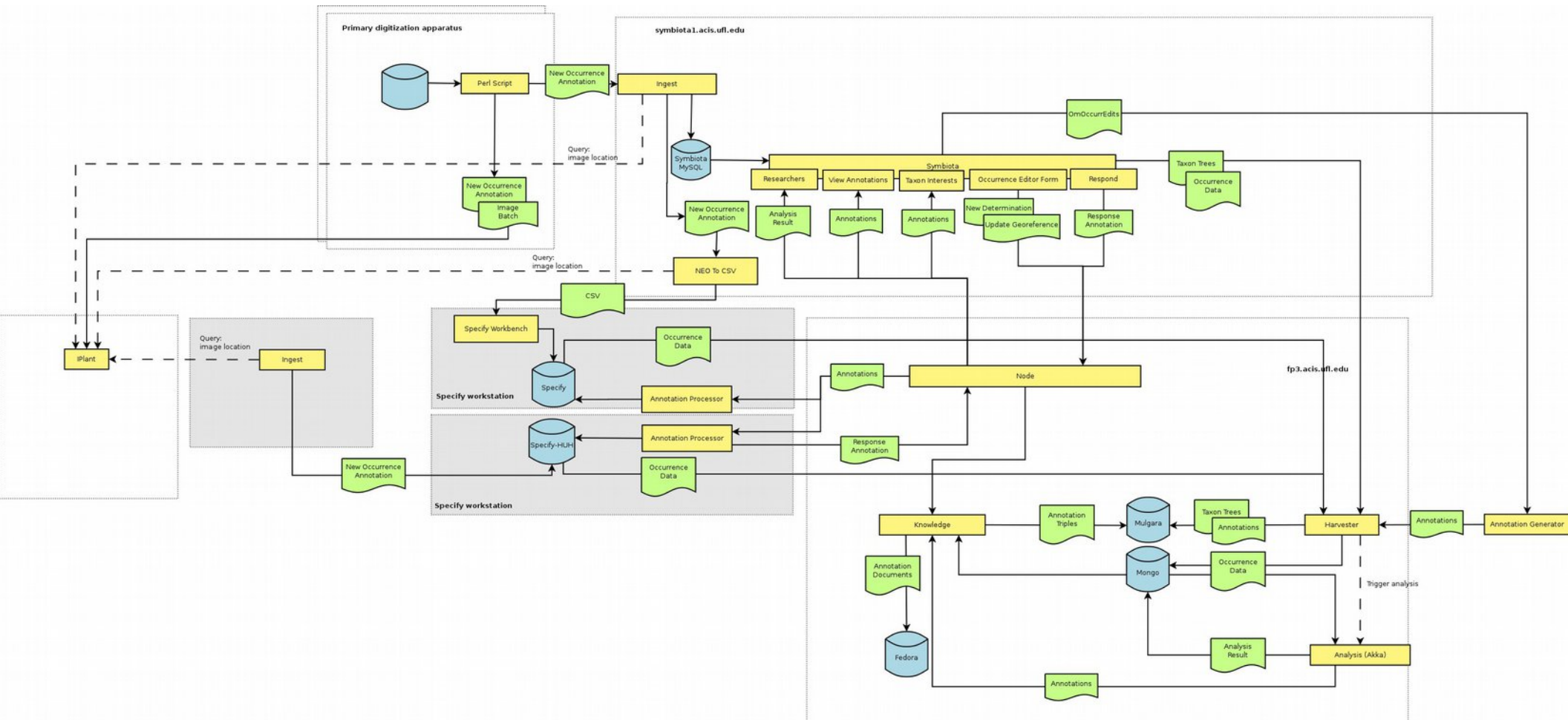


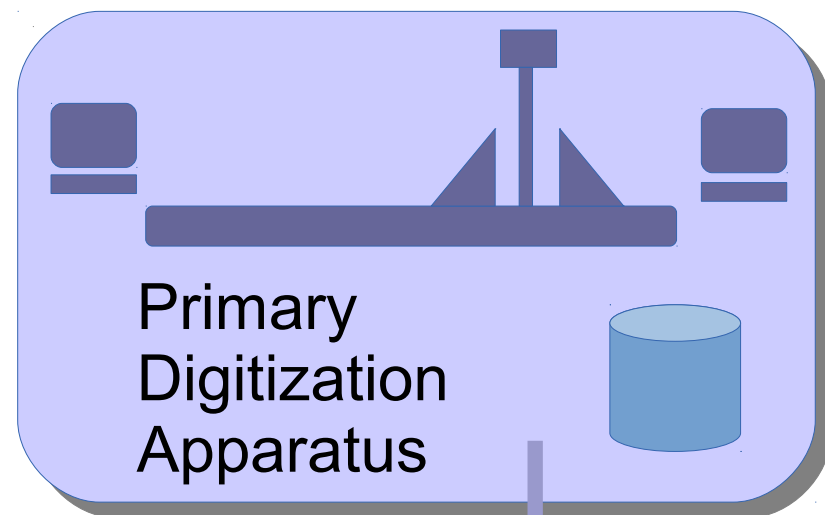
9:22 AM 6/18/2014

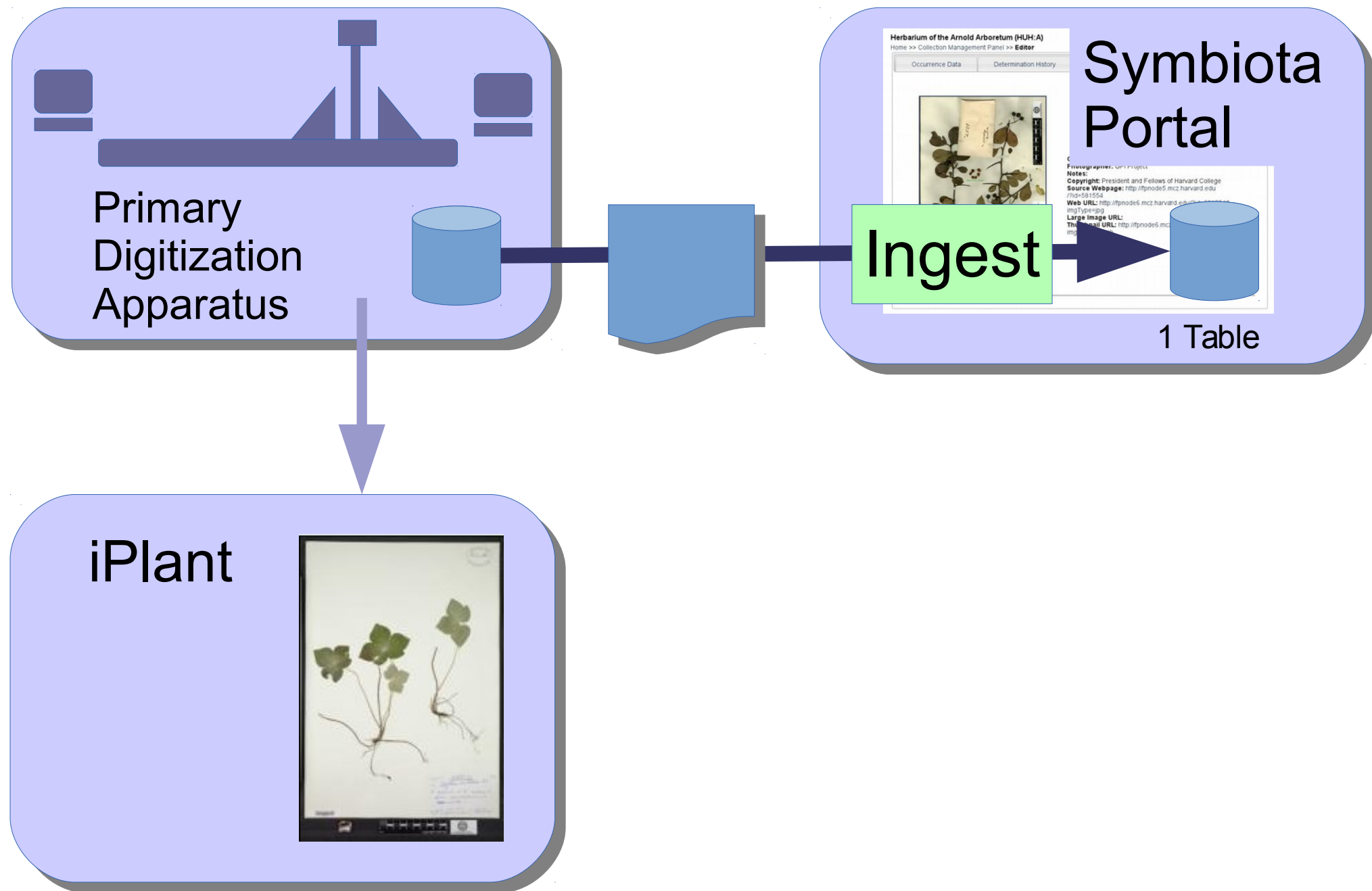


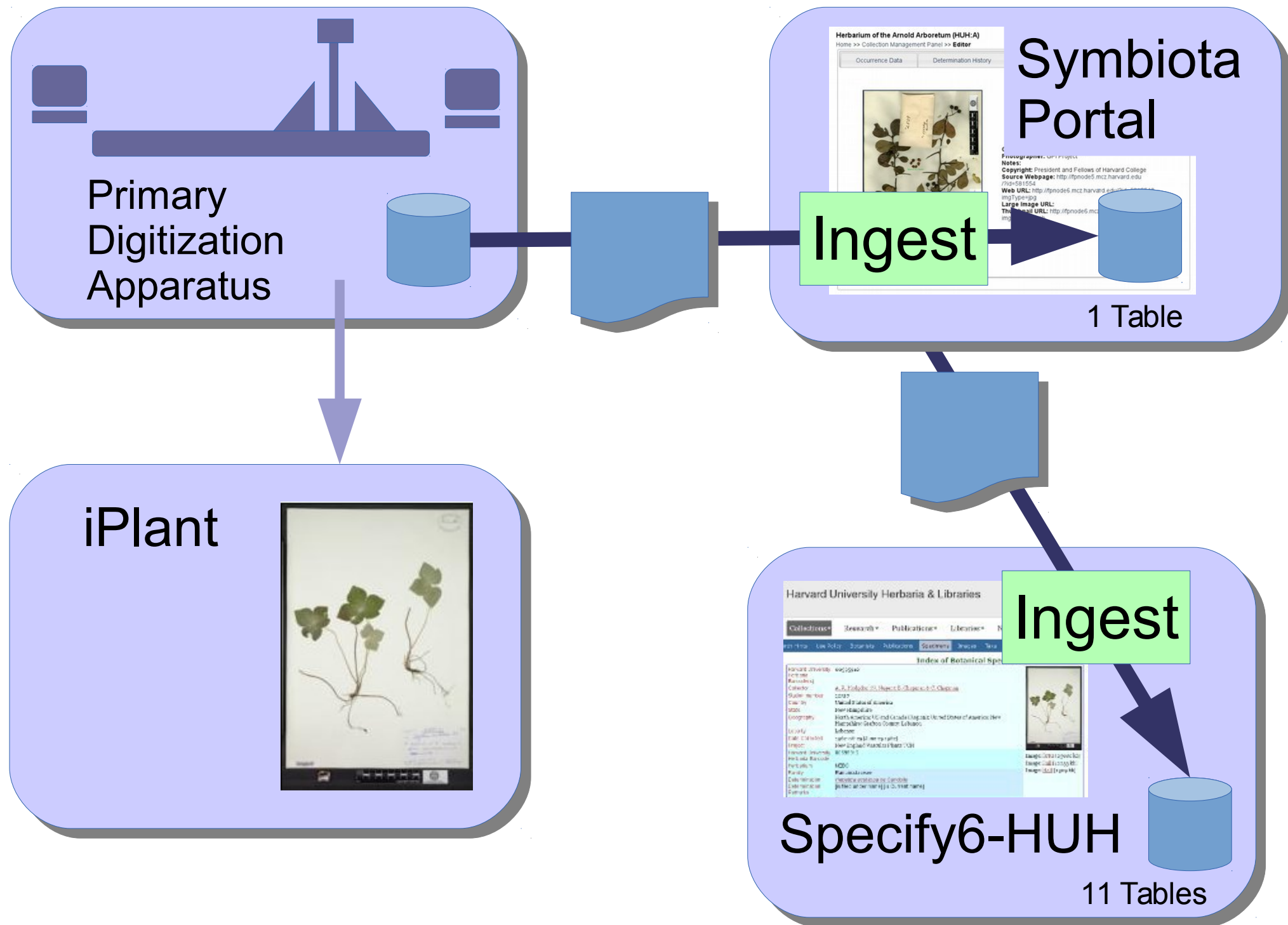


FilteredPush support for NEVP










```

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  <oa:hasTarget>
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      <oa:hasSelector>
        <oad:KVPairQuerySelector rdf:about="urn:uuid:d4f63488-b8a4-4ca3-8058-5233c">
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          <dwc:institutionCode>Harvard University</dwc:institutionCode>
        </oad:KVPairQuerySelector>
      </oa:hasSelector>
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    </oa:SpecificResource>
  </oa:hasTarget>
  <oa:hasBody>
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      <dwcFP:hasCollectionByID rdf:resource="urn:lsid:biocol.org:col:15868"/>
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      <dwc:collectionCode>NEBC</dwc:collectionCode>
      <dwcFP:hasIdentification>
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          <dwc:family>Polygalaceae</dwc:family>
          <dwc:scientificName>Polygala verticillata L.</dwc:scientificName>
          <dwc:genus>Polygala</dwc:genus>
          <dwc:specificEpithet>verticillata</dwc:specificEpithet>
          <dwcFP:infraspecificRank></dwcFP:infraspecificRank>
          <dwc:infraspecificEpithet></dwc:infraspecificEpithet>
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    </dwcFP:Occurrence>
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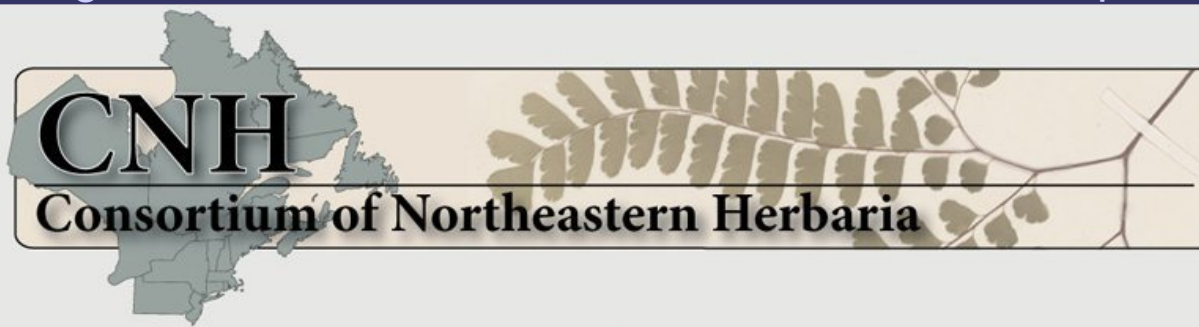
RDF/XML - Open Annotation Ontology

New Occurrence Annotation Document


```

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          <dwc:institutionCode>Harvard University</dwc:institutionCode>
        </oad:KVPairQuerySelector>
      </oa:hasSelector>
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  </oa:hasTarget>
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          <dwc:specificEpithet>verticillata</dwc:specificEpithet>
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        </dwcFP:Identification>
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    </dwcFP:Occurrence>
  </oa:hasBody>
</oa:Annotation>

```

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Show options...

Try searching for: *taxon, owner, country, state, photographer or tag.*

Q TAXA: Hepatica acuta

0 - 50 of 124 images

<< Previous Page Next Page >>



Hepatica acutiloba
Connecticut
YPM-NCBS: CBS.014751



Hepatica acutiloba
Massachusetts
Harvard University-NEBC: 00595991

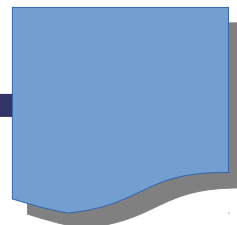
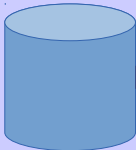


Hepatica acutiloba
Vermont
Harvard University-NEBC: 00595949



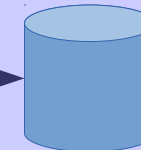
Hepatica acutiloba
Vermont
Harvard University-NEBC: 00595965

Primary
Digitization
Apparatus



Symbiota Portal

Ingest





Harvard
University
NEBC
Harvard
University
NEBC

New England Botanical Club (Harvard University Herbaria)

[Home](#) >> [Collections](#) >> [Search](#)

Species List

Dataset: All Collections
Search Criteria: 00595912

1

New England Botanica



Harvard
University:NEBC
Hepatica
00595912
United St
Full Recd

Catalog #: 00595912

Occurrence ID (GUID): urn:uuid:d67f8a93-de61-4cee-9c0d-96412c291697

Taxon: *Hepatica acutiloba* DC.

Family: Ranunculaceae

☐ Show Determination History

Collector: A. R. Hodgdon 12317

Date: 29 June 1962

Verbatim Date: June 29 1962

Additional Collectors: N. Nugent; B. Chapman; C. Chapman

Locality: United States of America, New Hampshire, Grafton, Lebanon.

Specimen Images



Large Version

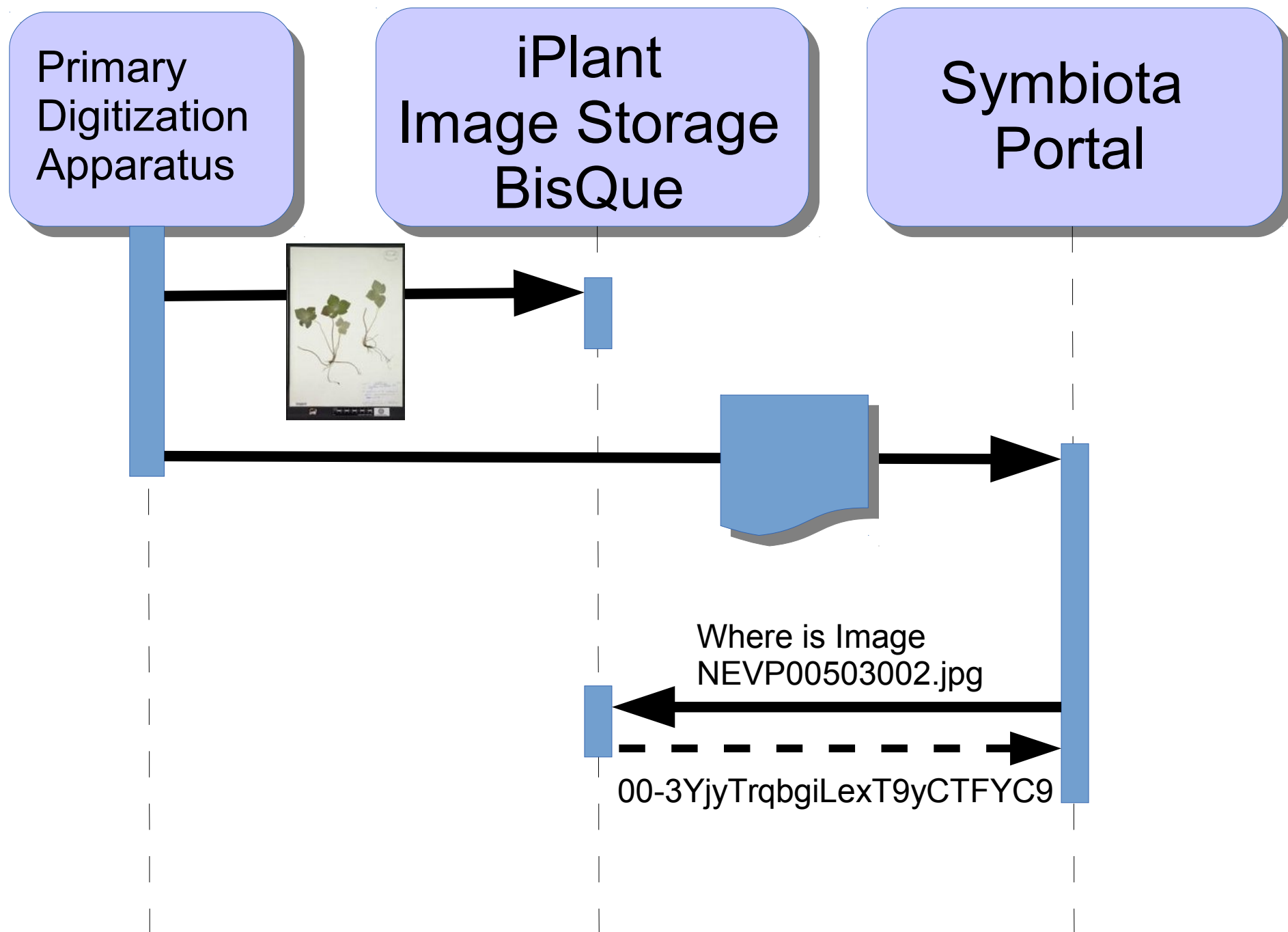
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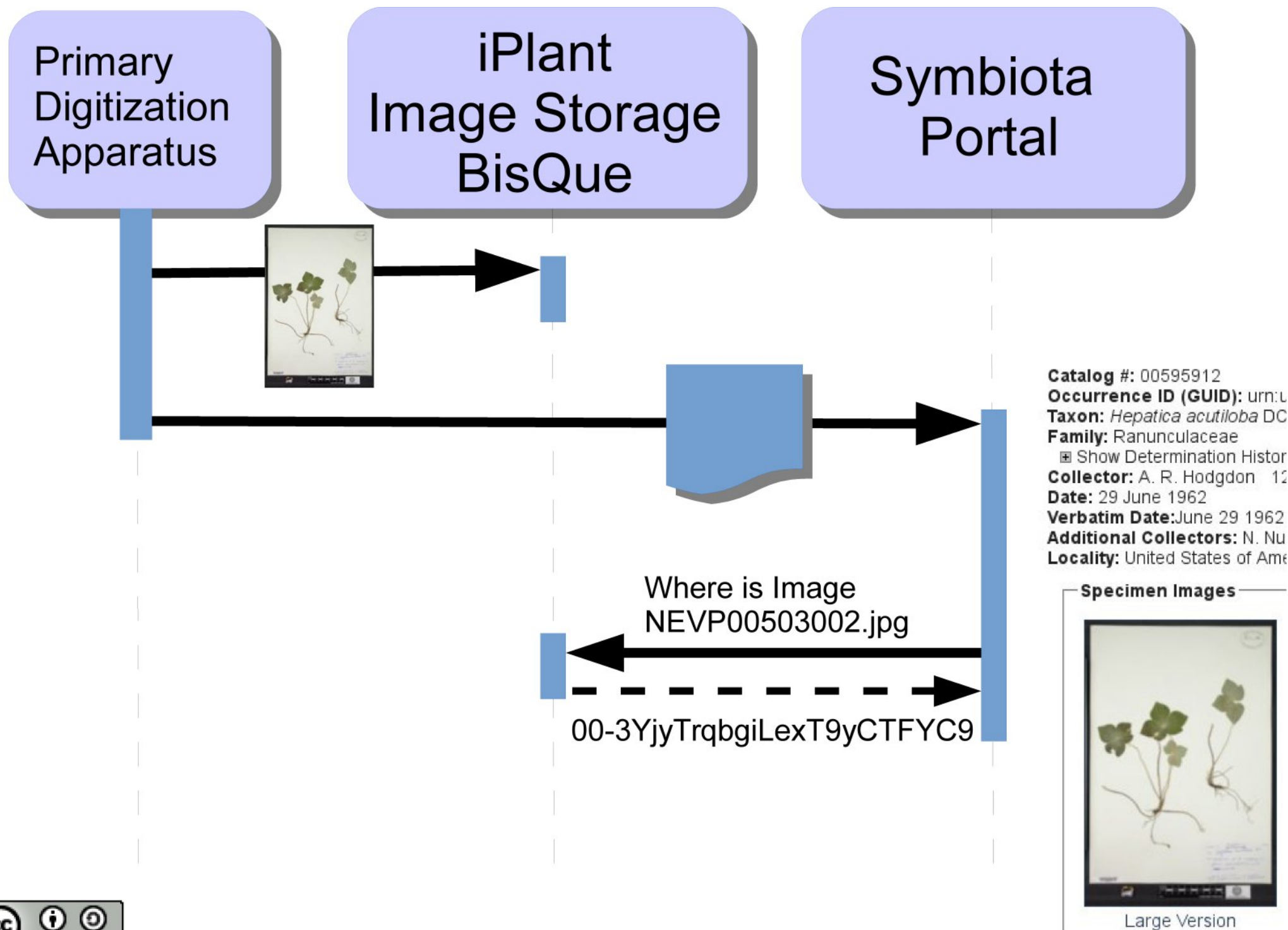
Usage Rights: CC BY-NC-SA (Attribution-NonCommercial-ShareAlike)

Rights Holder: © 2012 - 2014 New England Botanical Club

Access Rights: <http://kiki.huh.harvard.edu/databases/addenda.html#policy>

For additional information on this specimen, please contact: Charles Davis (cdavis@oeb.harvard.edu)





Harvard University Herbaria & Libraries

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[Taxa](#)

[Hu Cards](#)

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Index of Botanical Specimens

Harvard University	00595912
Herbaria	
Barcode(s)	
Collector	A. R. Hodgdon; N. Nugent; B. Chapman & C. Chapman
Station number	12317
Country	United States of America
State	New Hampshire
Geography	North America: US and Canada (Region): United States of America: New Hampshire: Grafton County: Lebanon
Locality	Lebanon
Date Collected	1962-06-29 [June 29 1962]
Project	New England Vascular Plants TCN
Harvard University	00595912
Herbaria Barcode	
Herbarium	NEBC
Family	Ranunculaceae
Determination	Hepatica acutiloba de Candolle
Determination	[is filed under name] [is Current name]
Remarks	



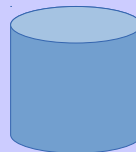
Image: [DNG](#) [23680 kb]

Image: [Full](#) [12233 kb]

Image: [Half](#) [1309 kb]

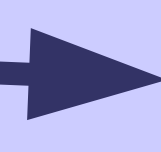
Primary
Digitization
Apparatus

Symbiota
Portal



Specify6-HUH

Ingest



Batch: [urn:uuid:4c950889-6ed2-4a96-a6e8-64d1667c4e5c](#)

Date: 2014-04-11

Project: NEVP TCN.

Facility: HUH Conveyor

Remarks: Specimens: 344

File: http://portal.neherbaria.org/portal/up/orig_1397578051.rdfSpecimen_2014-04-11

Specimens: 334

Image Sets: 334

Images: 1336

Image set: [GH 00580118](#) Harvard University
344 UsageRights: Available under Creative Commons
iPlant [Half](#) <http://bovary.iplantcollaborative.org/resize=1250&format=jpeg,quality,100>
iPlant [Thumbnail](#) <http://bovary.iplantcollaborative.org/resize=150&format=jpeg,quality,75>



Image Batch Quality Control

[Orchid Batches](#) [GPI/LAPI Batches](#) [NEVP Batches](#)

Batch: [urn:uuid:541c0aa0-5ecb-4ce7-bc33-86bfb2b5b](#)

with 149 sheets. Project: NEVP TCN. Lab: HUH Conveyor

Batch: [urn:uuid:ea0c96de-1c29-4e88-8241-e8162a46](#)

with 388 sheets. Project: NEVP TCN. Lab: HUH Conveyor

Batch: [urn:uuid:4e905a38-7239-46d2-aa17-e2d2c472](#)

with 431 sheets. Project: NEVP TCN. Lab: HUH Conveyor

Batch: [urn:uuid:feedb253-7615-42a4-9872-9214480f2](#)

with 164 sheets. Project: NEVP TCN. Lab: HUH Conveyor

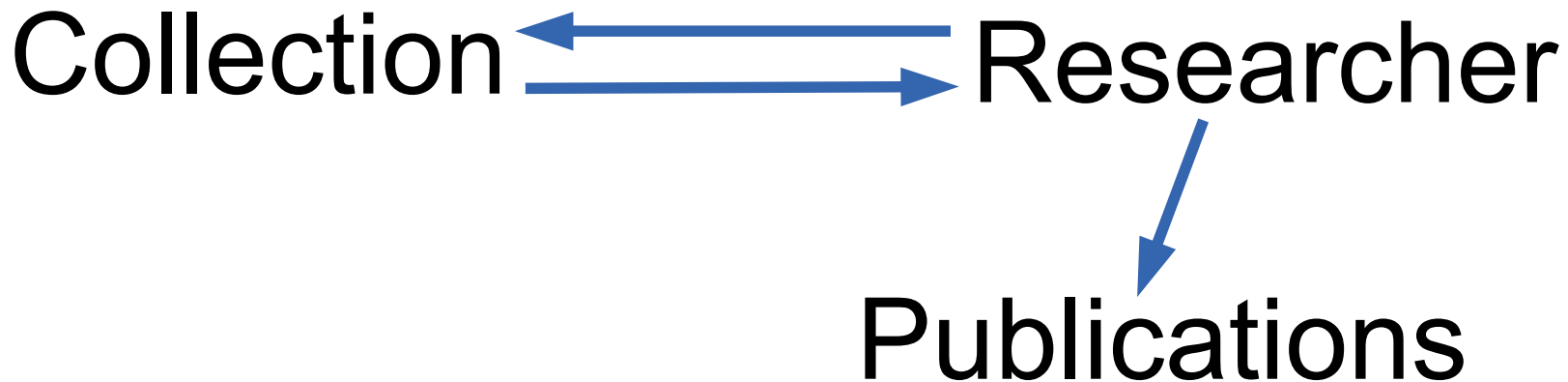
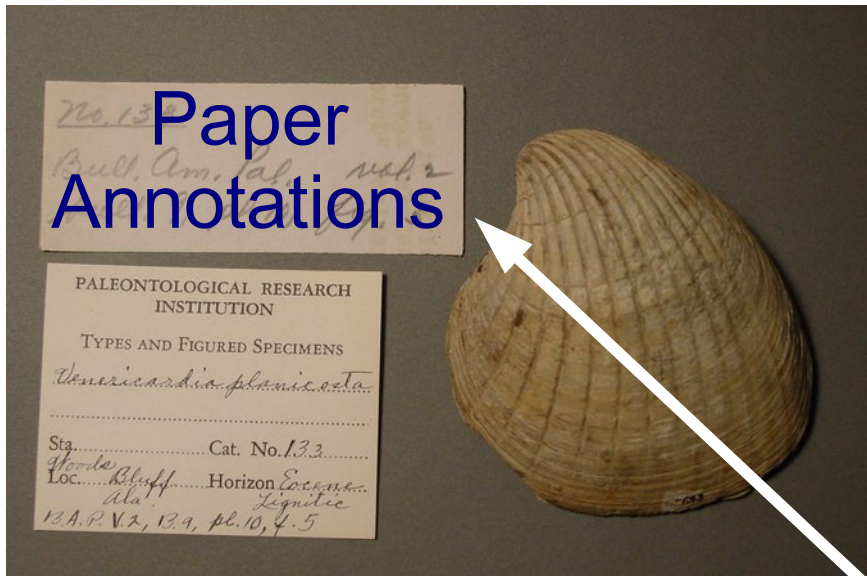
Batch: [urn:uuid:4ef5c029-f09a-446f-86ad-9439ce69b2](#)

432 sheets. Project: NEVP TCN. Lab: HUH Conveyor. S

Batch: [urn:uuid:56b6d444-56df-4ab7-9ec7-e2e72ce9e](#)

with 550 sheets. Project: NEVP TCN. Lab: HUH Conveyor

Two centuries of practice in Natural Science Collections



Colorado Plateau Museum of Arthropod Biodiversity (NAU:NAUF)

[Home](#) >> [Collection Management](#) >> **Editor**

Occurrence Data

Determination History

Images

Genetic Links

Admin

Identification Confidence Ranking

Rank: 0 - low

Set by: undefined

Determination History

There are no historic annotations for this specimen 

Add a New Determination

Identification Qualifier:

Scientific Name:

Author:

Confidence of Determination: Medium 

Determiner:

Date:

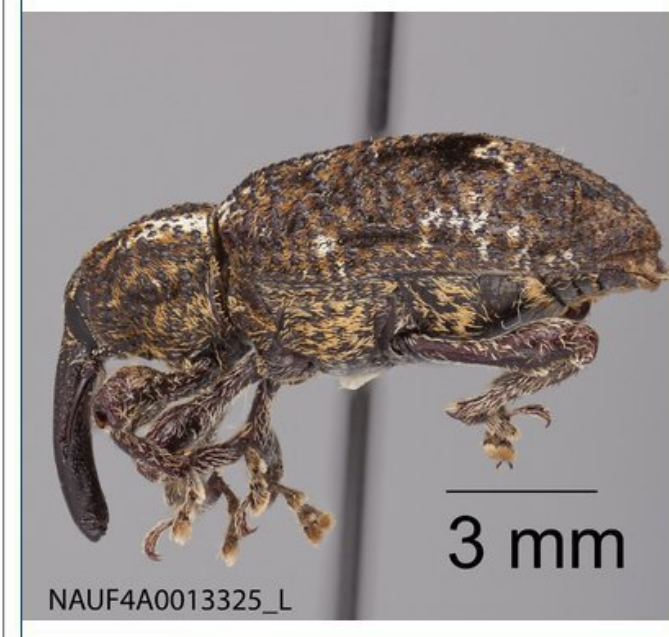
Reference:

Notes:

☐ Make this the current determination

Add New Determination

Label Processing

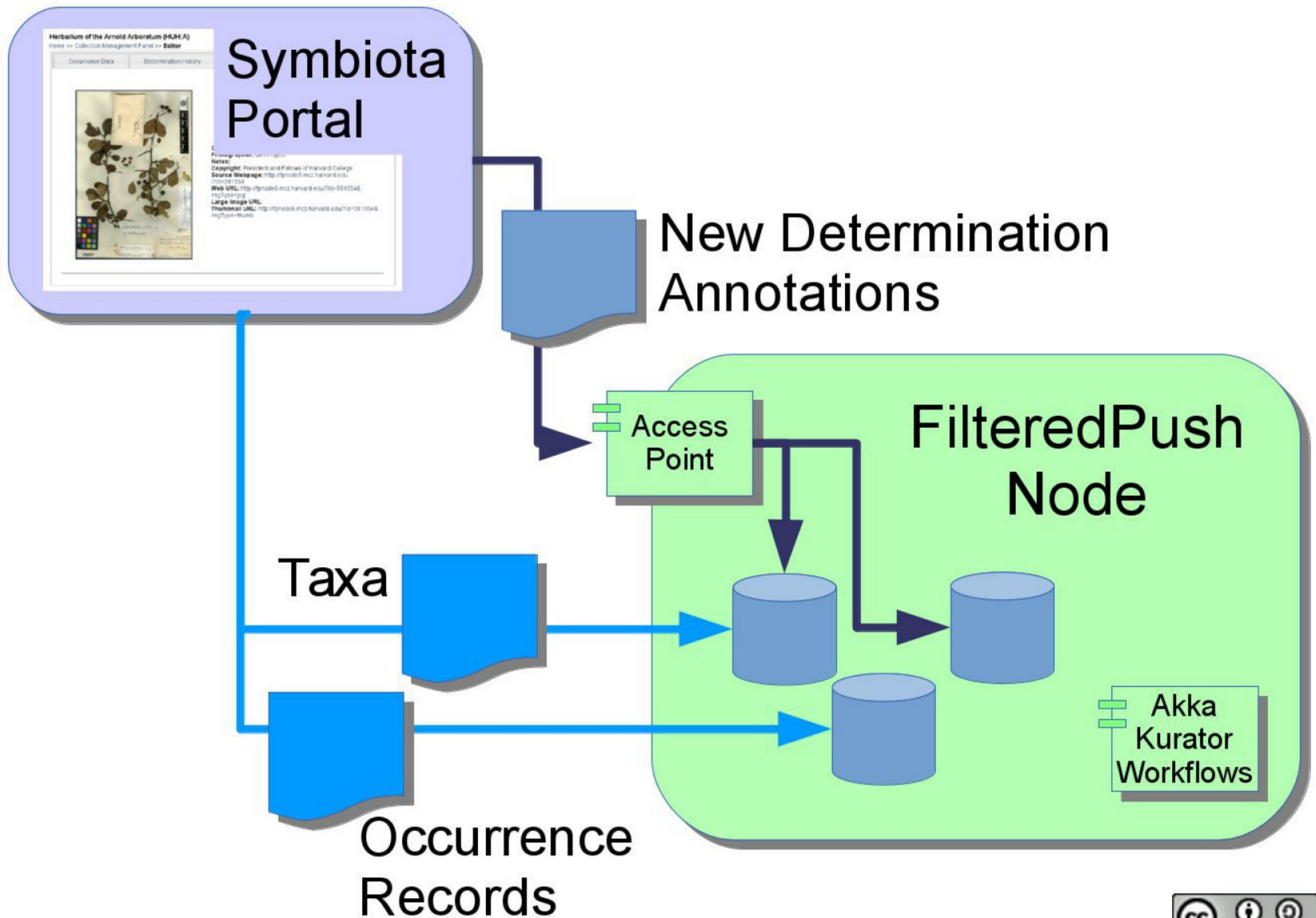


OCR Image

Options

- ☐ OCR whole image
- ☐ OCR w/ analysis

Image 1 of 2 >>>





[Home](#) >> [Collections](#) >> [Search Criteria](#) >> Specimen Records

[Species List](#)

[Specimens](#)

[Maps](#)

Dataset: DMNS-DMNS
Search Criteria: ZA.29152



1

Page 1, records 1-1 of 1

Denver Museum of Nature & Science



DMNS:DMNS

Agelenopsis pennsylvanica (C. L. Koch, 1843)

ZA.29152

Tozien, Diane

29 October 2003

United States, Colorado, Denver, 1365 Poplar St, 80220, 39.73824 -104.90485

[Full Record Details](#)

Herbarium of the Arnold Arboretum (HUH:A)

Home >> Collection Management Panel >> Editor

Occurrence Data

Determination History



Symbiota Portal

Notes:
Copyright: President and Fellows of Harvard College
Source Webpage: <http://fpnode5.mcz.harvard.edu/?id=5815548>
Web URL: <http://fpnode5.mcz.harvard.edu/?id=5815548>
imgType=big
Large Image URL: <http://fpnode5.mcz.harvard.edu/?id=5815548>
Thumbnail URL: <http://fpnode5.mcz.harvard.edu/?id=5815548>
imgType=thumb

New Determination Annotation

Access Point

FilteredPush Node

Akka
Kurator
Workflows

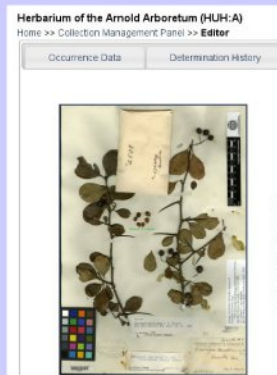
Match Interest To Annotations

Interest in SPARQL

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      ?dwc:institutionCode=\"DMNS\")
```

Triples in Annotation

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  <dwd:collectionCode> "DMNS" ;  
  <dwc:institutionCode> "DMNS".
```



Symbiota Portal

Access Point

FilteredPush Node

Akka
Kurator
Workflows

Annotation Processor

Specify6 Driver

Domain Configuration



Check Interest

Specify 6

**Store Change To
Database of Record**

FP-Annotation Processor

Update Local Datasource and Respond

Step 1 (of 2): Update Local Database with Proposed Change

[Next >>](#) [Exit](#)

Proposed Change:

☐	
☐	Annotate Date ^a 2013-06-20T15:27:30EDT
☐	Annotator ^a Kepler Workflow System
☐	Motivation ^a
☐	Evidence ^a The original latitude is out of range. Transposing longitude and latitude. Transposed/sign
☐	Collection Code ^a NAUF
☐	Footprint Spatial Fit ^a

[Populate the selected record below with selected items](#)
[Complete proposed change with external service](#)

Local Dataset:

New Record

Record 1

Geography Containers*	Yuma
Continent	testdata_2013-6-12_12:12
Country	United States
Country Code	
State/Province	Arizona
County	Yuma, United States
Locality Name*	US Hwy 80, 8 mi E of Yuma
Locality Remarks	This record is inserted based on Annotation. Annotation is created on 2013-06-20T15:27:30EDT
Decimal Latitude	33.333333

[Save to local data source](#)
[Restore](#)

Store Change To Database of Record

File Edit Data System Tabs Help

Welcome Data Trees Reports Interactions Statistics Query Workbench SGR Lifemapper

Create/Update

CO Collection Object
Tax Taxon
Agt Agent
Geo Geography
Loc Locality
More Forms

Record Sets

Collection Object

Catalog Number: 00000673 Accession: Alt Cat Number:
Cataloger: Peters, Melinda Cataloged Date: Project Number:

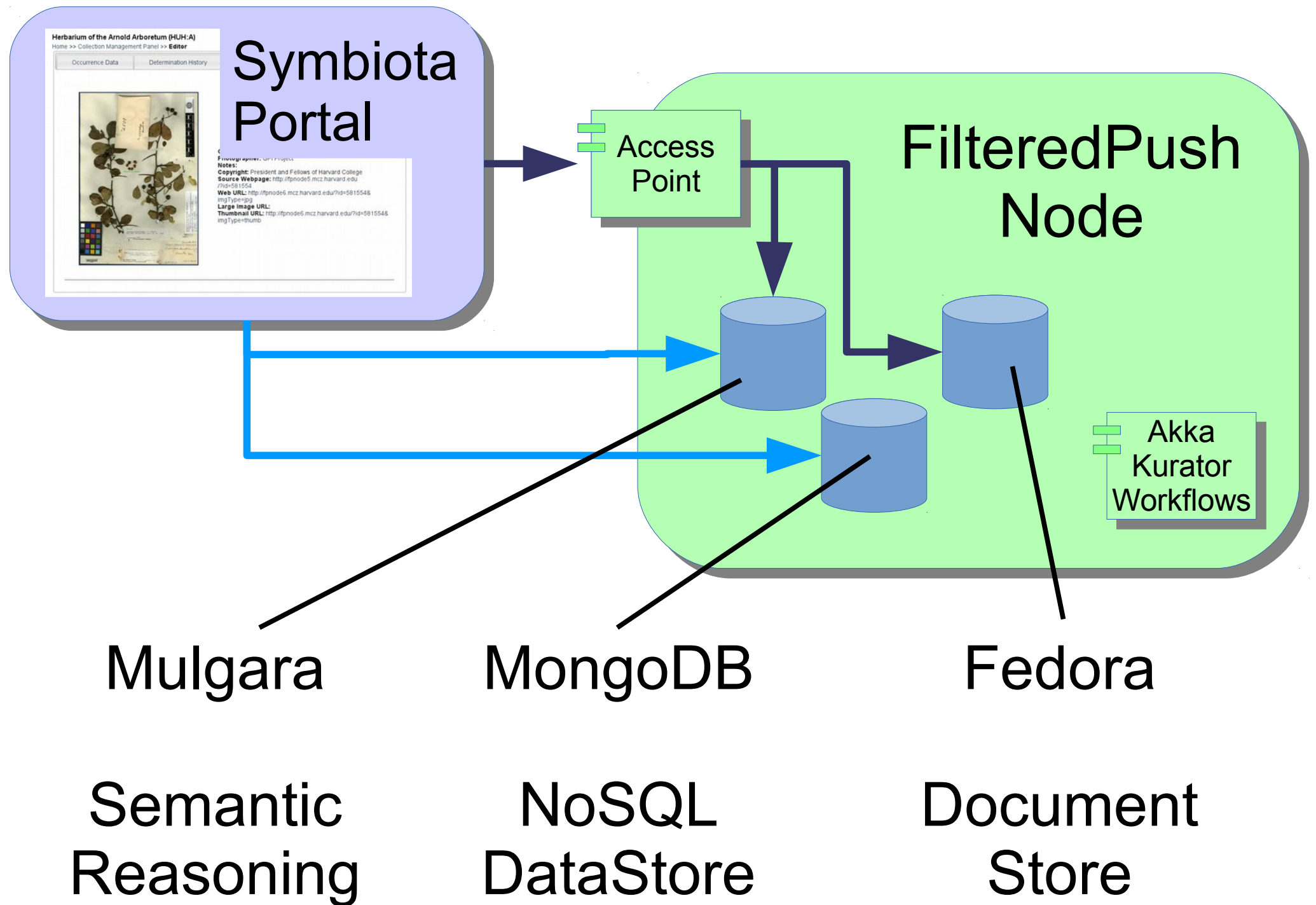
Determinations

Taxon: Crataegus crus-galli ☐ Current
Qualifier: Addendum:
Preferred Taxon: Crataegus crus-galli Name Usage:
Determined Date: 05/16/2012 Determiner: Macklin, James Type Status: None
Remarks: Annotation from FilteredPush from James Macklin on 2012-06-05

3 of 3

Grid

Specify 6



Species Checklists

Specimen Management

IDs Needed

Images for ID

User Profile

Profile Details

Paul Morris
Biodiversity Informatics Manager
Harvard University
Cambridge, MA 02138
United States
mole@morris.net
Login name: mole
User information: private

Taxonomic Relationships

Occurrence Editor

- Curculionidae 

Expresses Interest to
FilteredPush

Express Interest

Add New Interest

Interest Name:

Add Interest Criteria

OntologyClass	Property	Value	
Taxon ▼	Family ▼	Fagaceae	Remove

[Submit Interest Registration](#)

Interest in SPARQL

```
SELECT ?annotation ?type ?date ?annotator
      ?collectionCode ?catalogNumber
```

```
WHERE {
  ?annotation a oa:Annotation .
```

```
.....
```

```
FILTER (?dwc:Family = \"Fagaceae\" )
```

Assert Annotation

scientificName:Quercus alba

Connecticut Botanical Society (YPM:NCBS)

[Home](#) >> [Collection Management](#) >> Editor



Occurrence Data

Determination History

Annotations

Images

Admin



Add a New Determination

Identification Qualifier:

Scientific Name:

Author:

Determiner:

Date:

Reference:

Notes:

- ☒ Make this the current determination
- ☐ Remap images to new taxonomic name
- ☒ Submit determination to Filtered Push network

Determination History

There are no historic annotations for this specimen

Click plus sign to the right to add a new annotation

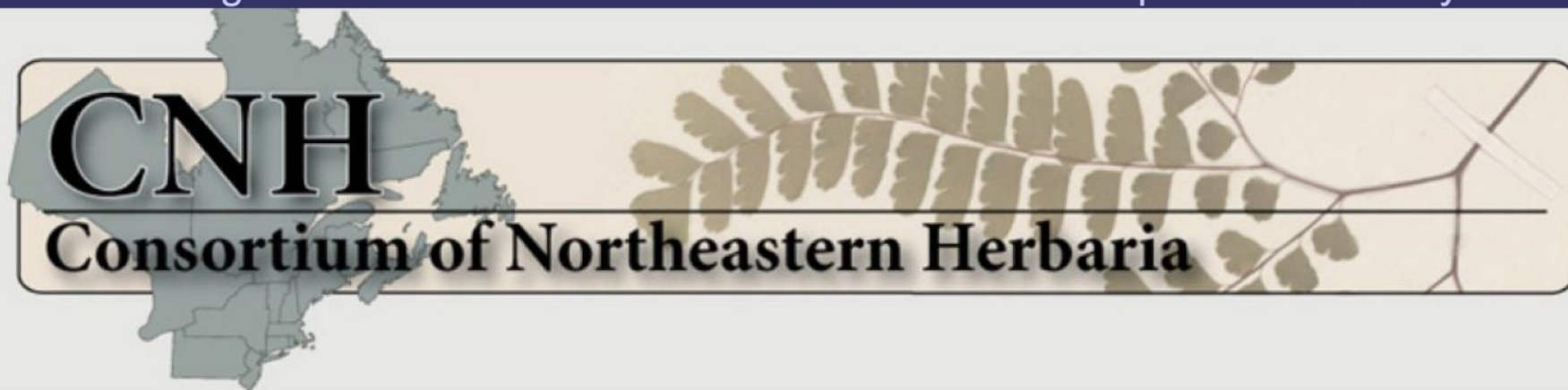
Annotation doesn't contain Family

```
<ann:Annotation_0> a      oa:Annotation ;  
    oa:hasBody <ann:Body_0> ;  
    oa:hasTarget <ann:Target_0> .
```

```
<ann:Body_0> a <dwcFP:Identification> ;  
    <dwc:dateIdentified> "2013-10-20" ;  
    <dwc:identifiedBy> "Walter Kitteridge" ;  
    <dwc:scientificName> "Quercus alba" ;  
    <dwc:scientificNameAuthorship> "L." .
```

```
<ann:Target_0> a oa:SpecificResource ;  
    oa:hasSelector <ann:Selector_0> .
```

```
<ann:Selector_0> a <dwcFP:DwCTripletSelector> ;  
    <dwc:catalogNumber> "CBS.923071" ;  
    <dwc:collectionCode> "NCBS" ;  
    <dwc:institutionCode> "YPM" .
```

[About](#) | [Portal](#) | [Membership](#) | [Governance](#) | [Meetings](#) | [Resources](#)

Portal Menu

[Search Collections](#)

[Collections](#)

[Species Lists](#)

[Sitemap](#)

Welcome Paul Morris!

[My Profile](#)

[Logout](#)

Enter a taxon

Taxon:

[Display Taxon Tree](#)

Chlorobionta
Charophyta
Streptophytina
Equisetopsida
Magnoliidae
Fagales
Fagaceae
Quercus
Quercus acerifolia
Quercus acutidens
Quercus acutissima
Quercus agrifolia
Quercus agrifolia var. *agrifolia*
 [*Quercus pricei*]
Quercus agrifolia var. *oxyadenia*
Quercus ajoensis
 [*Quercus turbinella* ssp. *ajoensis*]
Quercus alba

Chlorobionta

Charophyta

Streptophytina

Equisetopsida

Magnoliidae

Fagales

Fagaceae

Quercus

Quercus acerifolia

Quercus acutidens

Quercus acutissima

Quercus agrifolia

Quercus agrifolia var. *agrifolia*

[*Quercus pricei*]

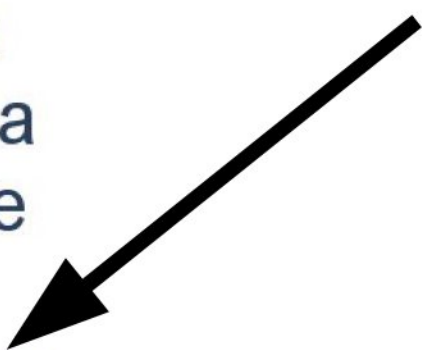
Quercus agrifolia var. *oxyadenia*

Quercus ajoensis

[*Quercus turbinella* ssp. *ajoensis*]

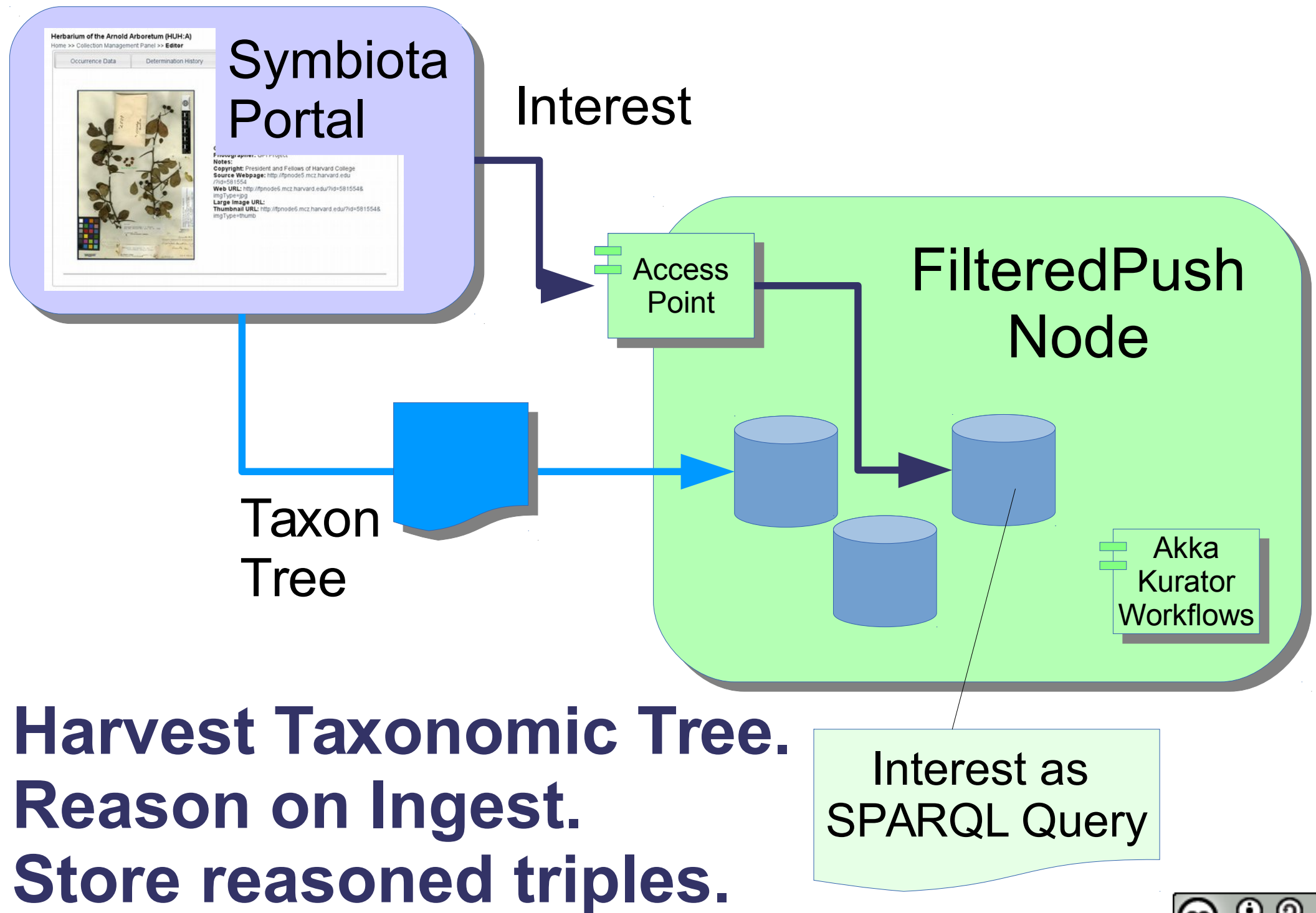
Quercus alba

Interest



Annotation







Symbiota Portal

New Determination Annotation

Taxon Tree

Access Point

FilteredPush Node

Akka
Kurator
Workflows

Interest as
SPARQL Query

**Check Interest:
Run SPARQL Query
Return annotations.**



Symbiota Portal

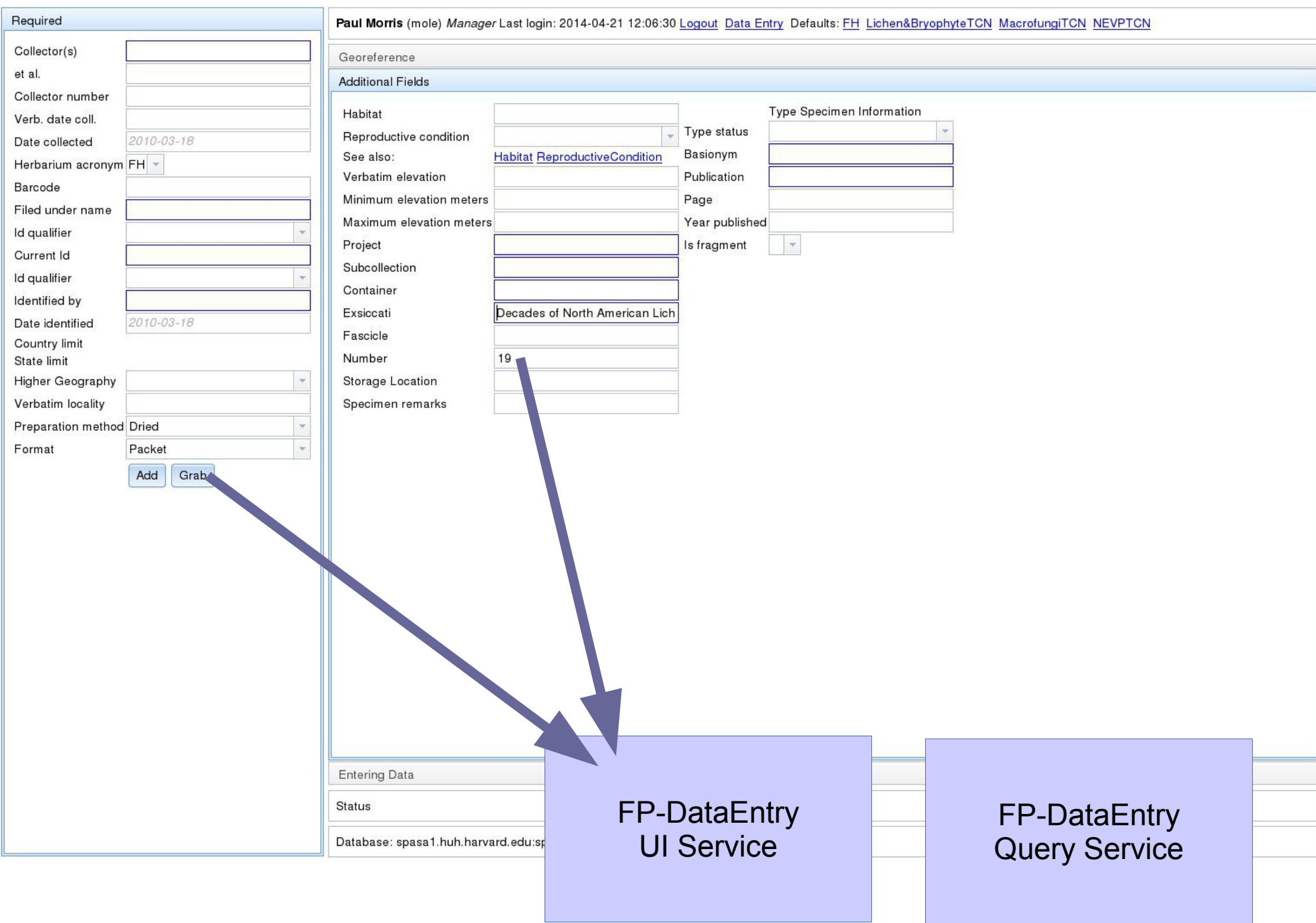
FP-DataEntry

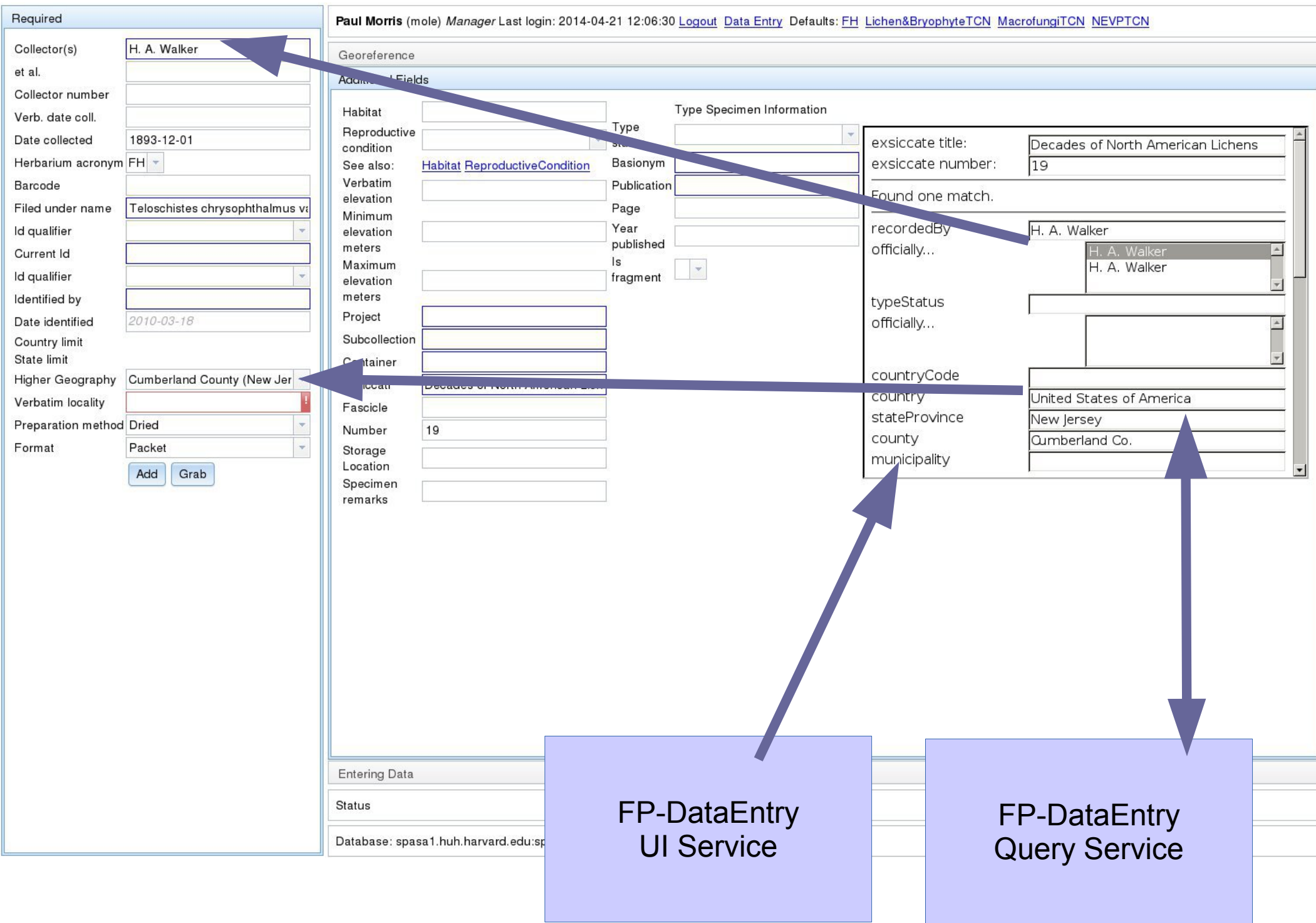
Access Point

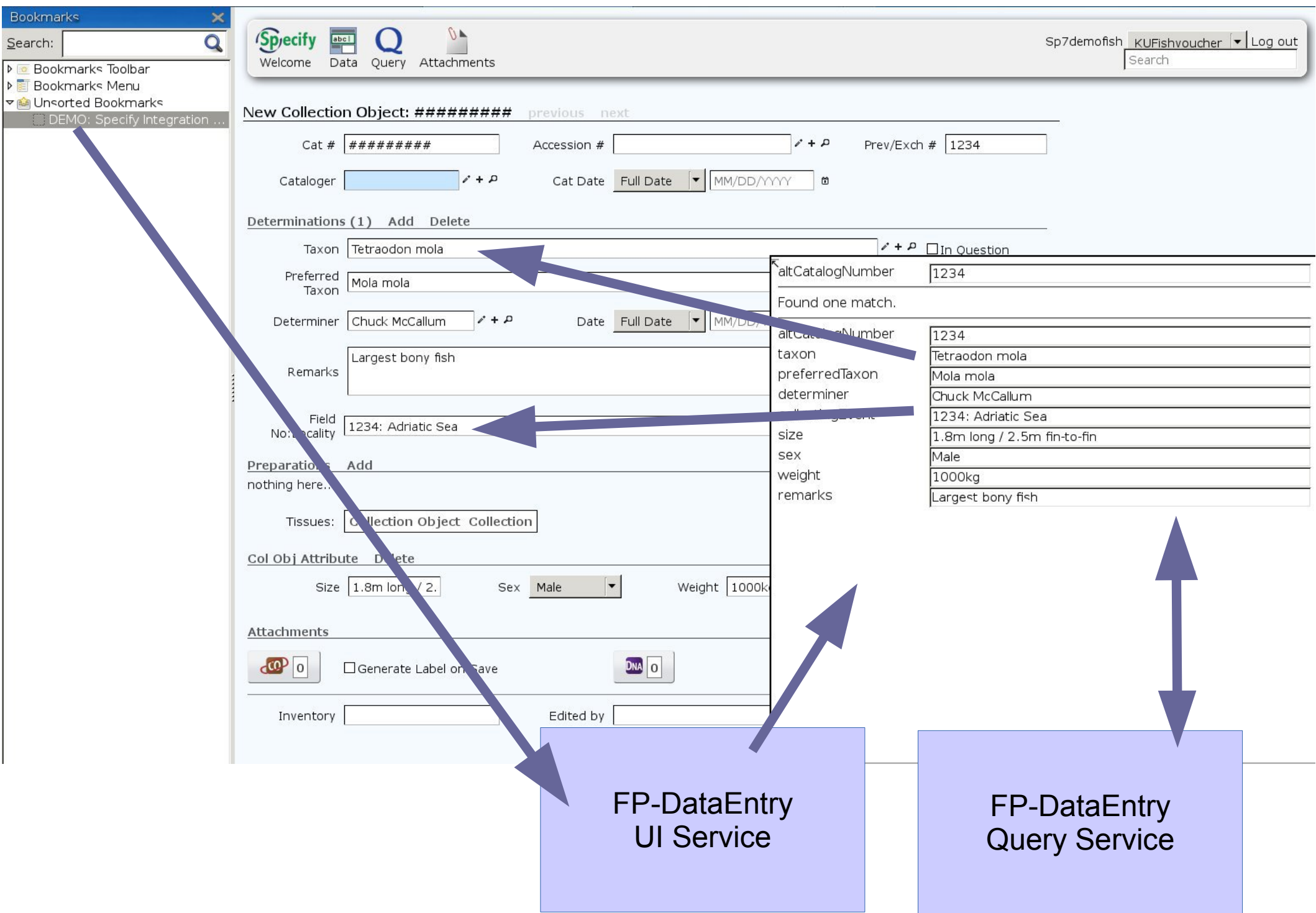
FilteredPush Node

Akka
Kurator
Workflows

Occurrence
Records









Symbiota Portal

Access Point

FilteredPush Node

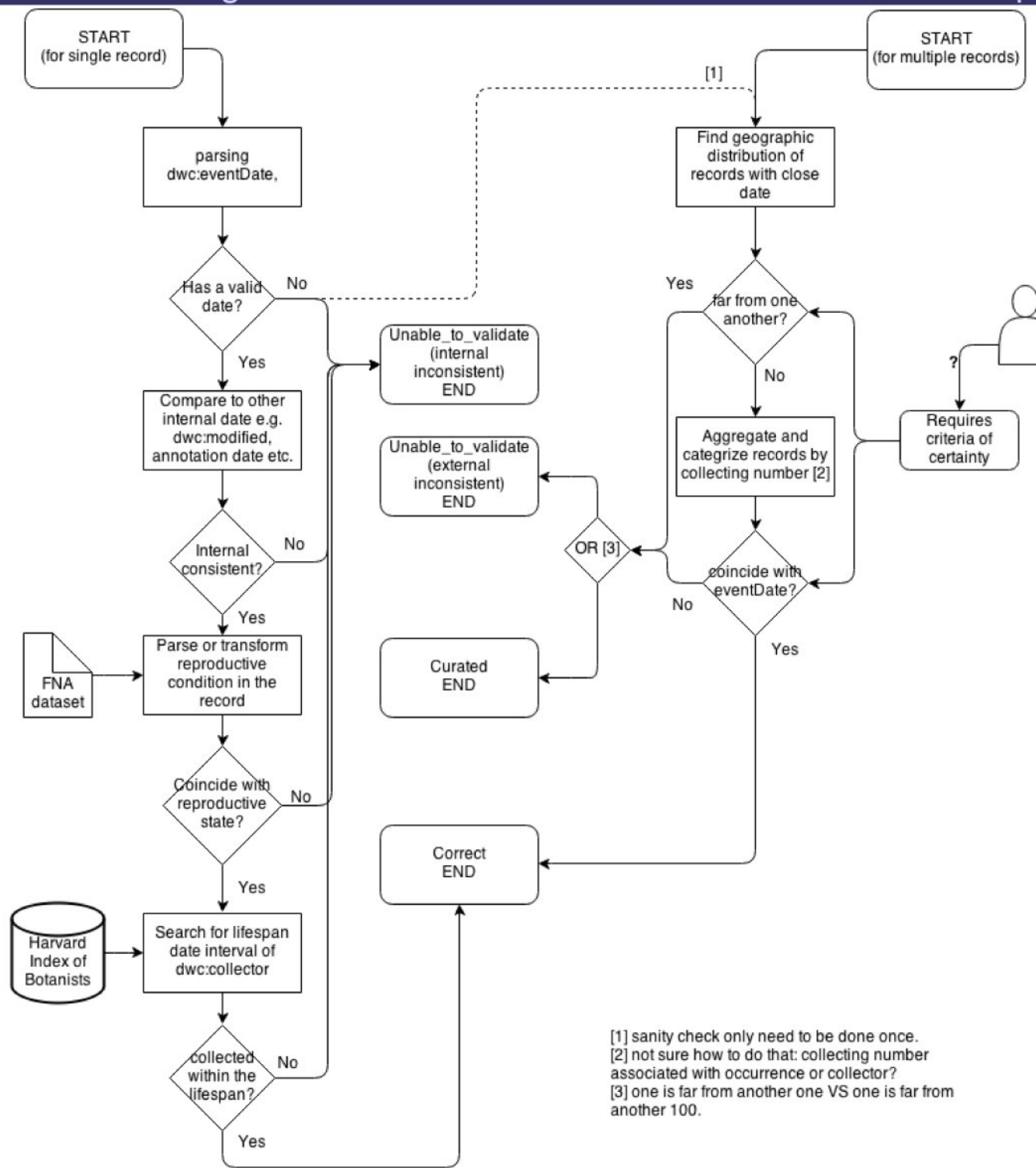
Akka
Kurator
Workflows

Occurrence
Records

Quality Control
Annotations

Quality Controlled
Data Set

QualityControl
Workflow



[1] sanity check only need to be done once.
 [2] not sure how to do that: collecting number associated with occurrence or collector?
 [3] one is far from another one VS one is far from another 100.

Quality Controlled Data

Quality Control My Data:

Analysis: Specify query parameters, select a workflow, and run.

Query Parameters:

Property:

Value:

Property	Value	
institutionCode	NAU	Delete

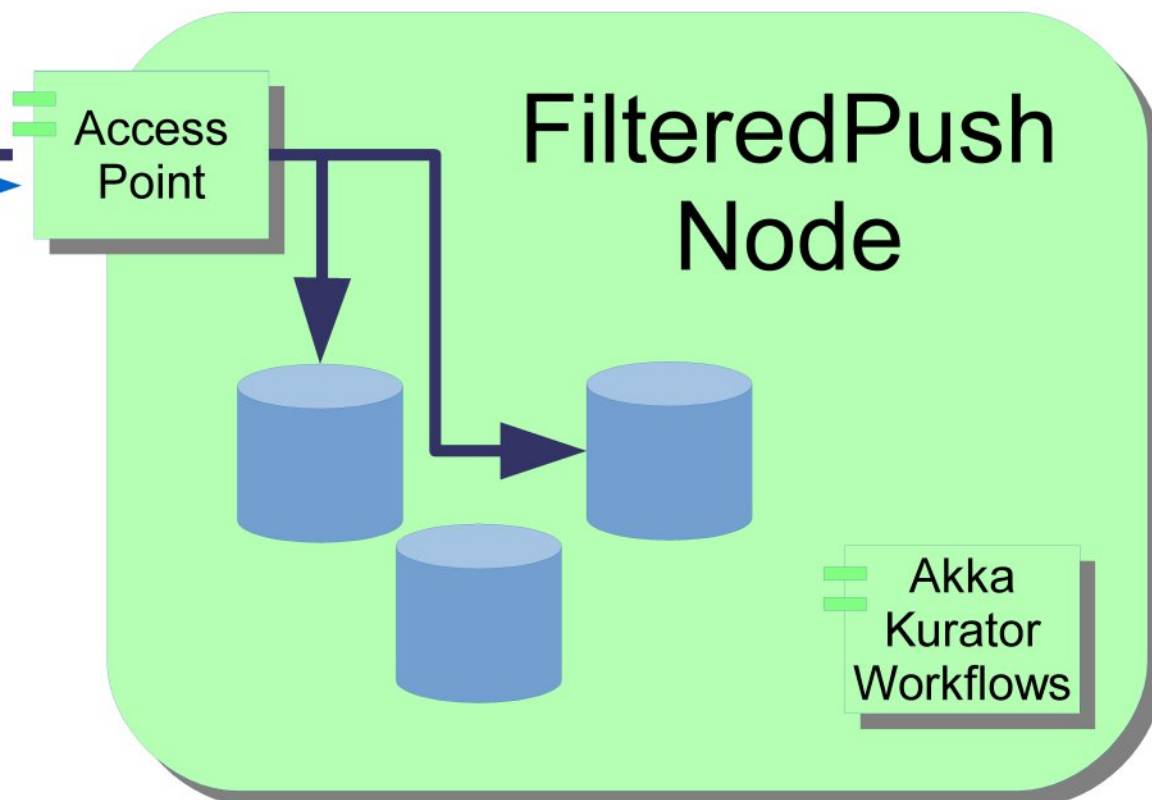
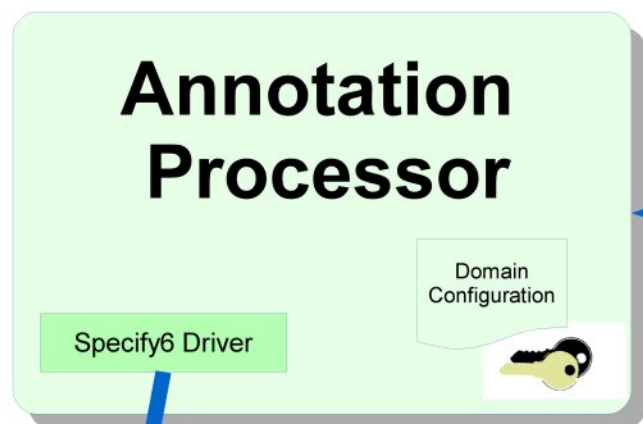
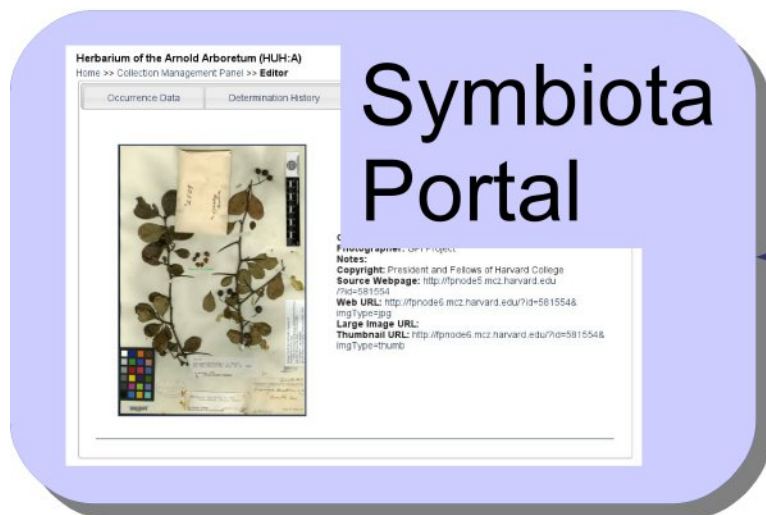
Workflow:

Summary of analysis (defaults to the last run or you may select a previous result from the list below):

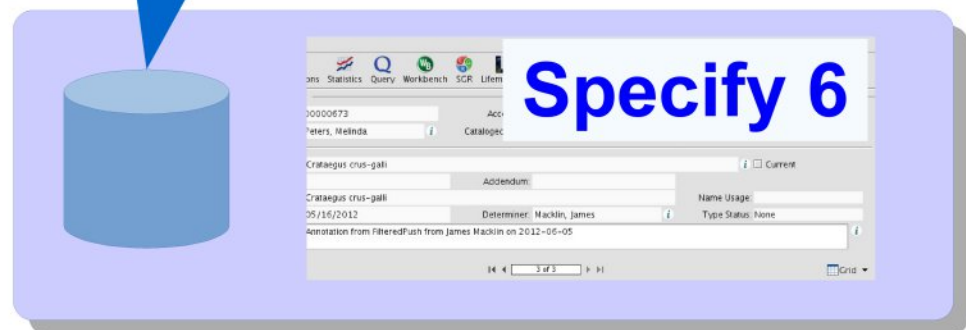
	Institution Code	Collection Code	Catalog Number	Family	Scientific Name	Scientific Name Authorship	Latitude	Longitude	Country	StateProvince	
▶	NAU	NAUF	NAU4F A0010139	Curculionidae	Trigonoscuta yumaensis	Pierce	32.725204	-114.485613	United States	Arizona	US Hwy 8
◀	NAU	NAUF	NAU4FA0010142	Curculionidae	Ericydeus lautus	(LeConte, 1856)	-109.163673	13.896516	USA	Arizona	Sunny FI
Actor Name		Actor Run	Actor Result	Institution Code	Collection Code	Catalog Number	Family	Scientific Name			
ScientificNameValidator			?					UNABLE_DETERMINE_VALIDITY_OF: Ericydeus lautus			
GEORefValidator			X								
▶	NAU	NAUF	NAU4FA0010140	Curculionidae	Trigonoscuta yumaensis	Pierce	32.72528	-114.62361	USA	Arizona	Ave. 8E
▶	NAU	NAUF	NAU4FA0010141	Curculionidae	Ericydeus lautus	(LeConte, 1856)	31.896516	-109.163673	USA	Arizona	Sunny FI

[Export as CSV](#) [Export as XLS](#)

(3) See Annotations



(1) Check Interest



(2) Store Change To Database of Record

Update Local Datasource and Respond

Step 1 (of 2): Update Local Database with Proposed Change

Next >> Exit

Proposed Change:

☐		
☐	Annotate Date ^a	2013-06-20T15:27:30EDT
☐	Annotator ^a	Kepler Workflow System
☐	Motivation ^a	
☐	Evidence ^a	The original latitude is out of range. Transposing longitude and latitude. Transposed/sign
☐	Collection Code ^a	NAUF
☐	Footprint Spatial Fit ^a	

Populate the selected record below with selected items Complete proposed change with external service

Local Dataset:

New Record Record 1

Geophy Containers*	Yuma
Continent	testdata_2013-6-12_12:12
Country	United States
Country Code	
State/Province	Arizona
County	Yuma, United States
Locality Name*	US Hwy 80, 8 mi E of Yuma
Locality Remarks	This record is inserted based on Annotation. Annotation is created on 2013-06-20T15:27:30EDT
Decimal Latitude	33.735284

Save to local data source Restore

Store Change To Database of Record

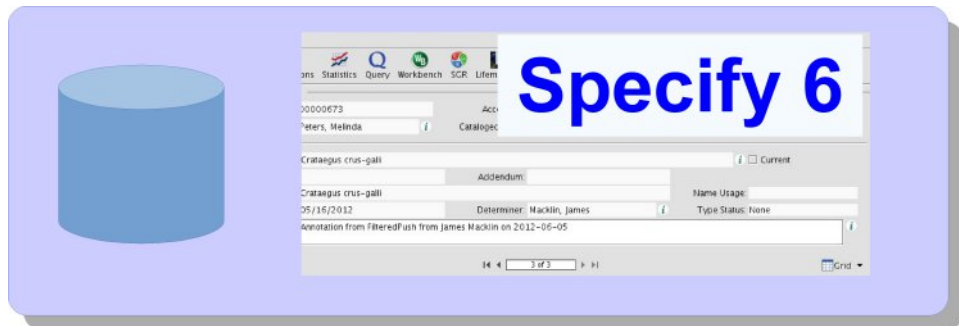
Locality Name: US Hwy 80, 8 mi E of Yuma

Geography: Yuma, United States i

Remarks: This record updated based on an Annotation created on 2013-06-20T12:56:54EDT. Annotator: [Kepler Workflow System].
Evidence: [The original latitude is out of range. Transposing longitude and latitude. Transposed/sign changed coordinates are near georeference of locality from Geolocate.]. i

Decimal Degrees Point

Latitude: 32.7252040	N
Longitude: 114.4856130	W



Annotation Conversations

Respond

1. What is your opinion about the validity of the assertions made in the annotation?

☐ Agree ☒ Neutral ☐ Disagree

Could you tell us why? Please check all that applies or enter specific reason:

☐ I trust the expertise of the annotator.

☐ This annotation is accepted without judgement as to the validity of its assertions.

2. What evidence do you have to support your opinion?

3. Why are you not updating your local database with the proposed change in the annotation?

Please check all that applies or enter specific reason:

☐ This change is not allowed by local data policy.

☐ Local data policy is to only record annotations recorded on paper with the specimen.

☐ Stale annotation. The local data have already been corrected.

☐ The assertions in this annotation do not conform to requirements of local data policy.

submit

Exit

Colorado Plateau Museum of Arthropod Biodiversity (NAU:NAUF)



Home >> Collection Management >> **Editor**

Occurrence Data	Determination History	Annotations	Images	Admin
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1. **Georeference (32.725204 , -114.485613)**

Created By:	Kepler Workflow System	Created On:	2013-06-20T11:22:37EDT
Collection Code:	NAUF	Catalog Number:	NAU4F A0010139
Institution Code:	NAU	Georeferenced By:	
Latitude:	32.725204	Longitude:	-114.485613
Uncertainty (meters):		Datum:	
Georeference Protocol:			

Evidence for Assertion:The original latitude is out of range. Transposing longitude and latitude. Transposed/sign changed coordinates are near georeference of locality from Geolocate.

Motivation for Assertion:

Response Annotations:

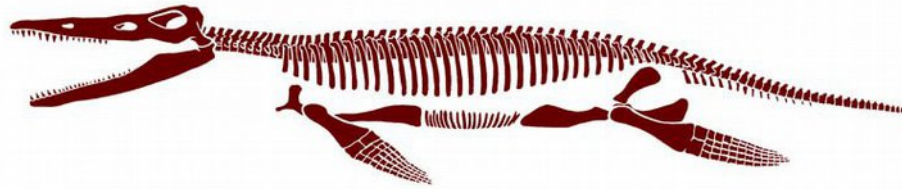
○ Created By: Paul J. Morris Opinion: On examination of the label data, I concur with the annotator's assertions.;Apparent data transcription error.	Created On: 2013-06-20T12:03:39EDT
--	--

Evidence for Assertion:Label data supports transposition.

Motivation for Assertion:

FilteredPush

MUSEUM OF COMPARATIVE ZOOLOGY



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Agriculture et
Agroalimentaire Canada



University of California, Davis



Harvard University Herbaria



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Paul J. Morris

Robert A. Morris

James A. Macklin

Bertram Ludacher

Tianhong Song

Former Project Participants

Lei Dou

Chinua Iloabachie

Sven Koehler

Timothy McPhillips

Donna Tremonte

Zhimin Wang



NSF: DBI #0960535 (Production, Year 4 of 5)

NSF: DBI #0646266 (Prototype, Complete)

<http://wiki.filteredpush.org>

