



OXLOD Open Workshop

12 Dec 2017 - OeRC

Progress report – Athanasios Velios

Druce collection – Stephen Harris

Mapping and plans for next month – Athanasios Velios



[illegible]

- History of Science
 - Stephen Johnston

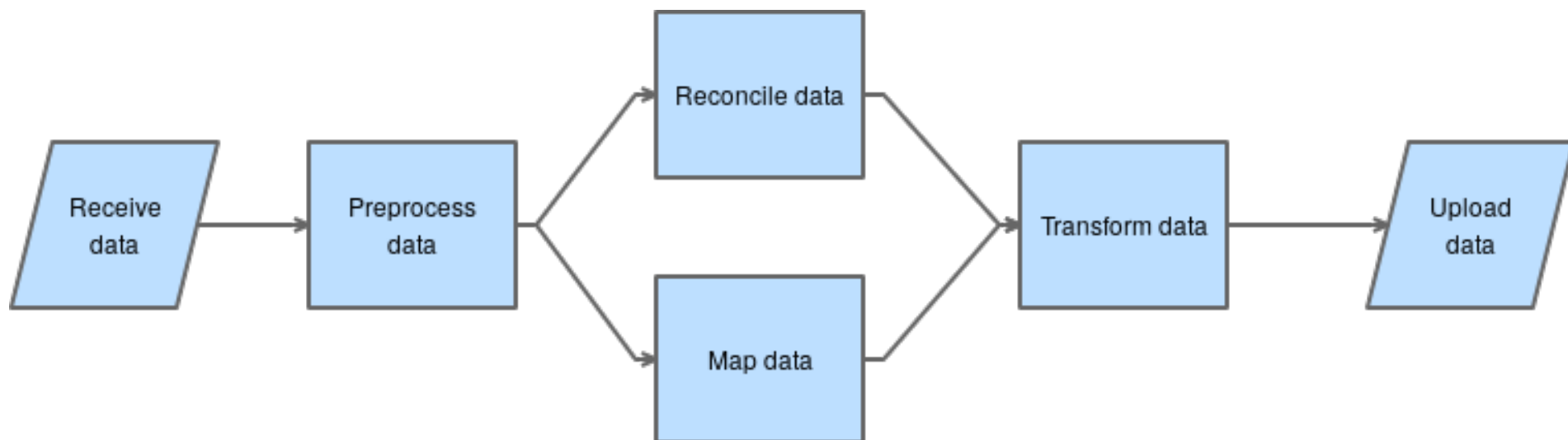
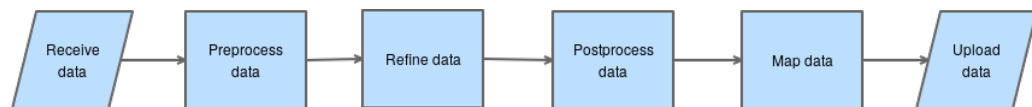


- Ashmolean
 - Aruna Bhaug eerutty
 - Chris Powell



- Museum of Natural History
 - Sarah Joomun





Quantitative evaluation

Thank you David (Weigl)

- Data analysis
 - Potential metrics
 - Performance metrics (server setup)
 - retrievability (resolvable URIs)
 - latency, throughput, scalability (speed of response)
 - Graph metrics
 - Encoding metrics (best practice)
 - understandability (human-friendly and multi-lingual labels etc.)
 - versatility (formats, endpoints and dumps, etc.)

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Graph metrics

- **Size**
 - Diversity (use of different ontology classes)
 - Accuracy (outliers)
- **Interlinking degree**
 - Clustering coefficient (existing links/possible links)
 - Centrality (am I in the shortest path?)
 - Interlinking completeness (linked entities/total entities)

Size

Records: 192,737 – Triples: 4,648,764

Records: 15,000 – Triples: 481,791

No of entities	Entity	Interconnections
1	E35 Title	385310
1	E41 Appellation	320018
1	F2 Expression	192736
1	E39 Actor	161056
3	E65 Creation, F1 Work, F28 Expression Creation	158028
1	F24 Publication Expression	99604
1	F22 Self Contained Expression	93132
1	F5 Item	92659
1	E42 Identifier	10518
1	E10 Transfer of Custody	3493
1	E52 Time-Span	3043
1	E36 Visual Item	735
1	E21 Person	383
1	E25 Man-Made Feature	289
1	續修四庫全書 http://allegro.bodleian.ox.ac.uk/chinese/9961126172916odh	275
1	古今說部叢書 http://allegro.bodleian.ox.ac.uk/chinese/9961015175819odh	259
1	景印文淵閣四庫全書 http://allegro.bodleian.ox.ac.uk/chinese/9921006114352odh	245
1	http://allegro.bodleian.ox.ac.uk/chinese/%5Bnone%5D/old-identifier/1	164
1	http://allegro.bodleian.ox.ac.uk/chinese/9960304122432odh	141
1	http://allegro.bodleian.ox.ac.uk/chinese/9980119151647omw	87

Number of interconnections

100,000

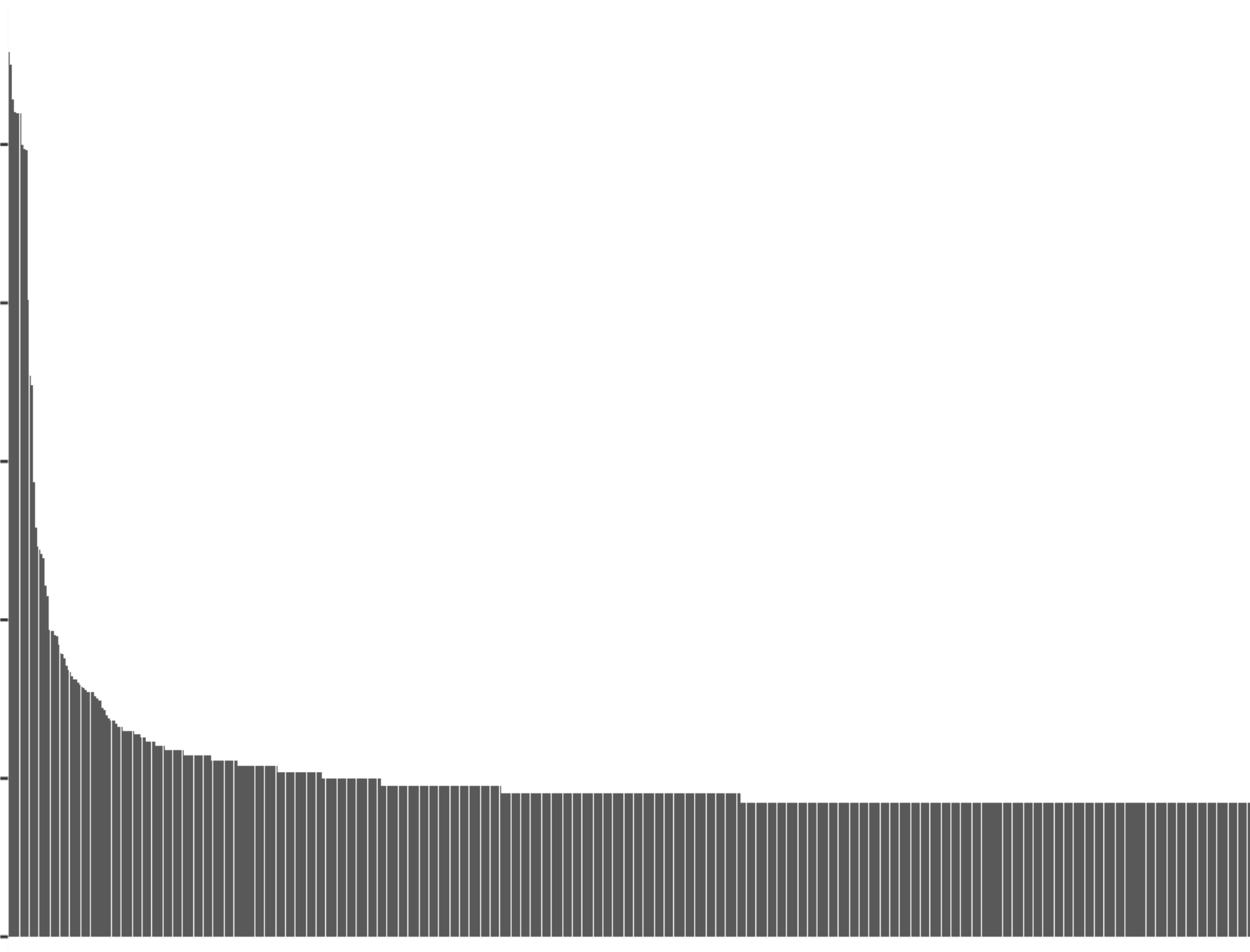
10,000

1,000

100

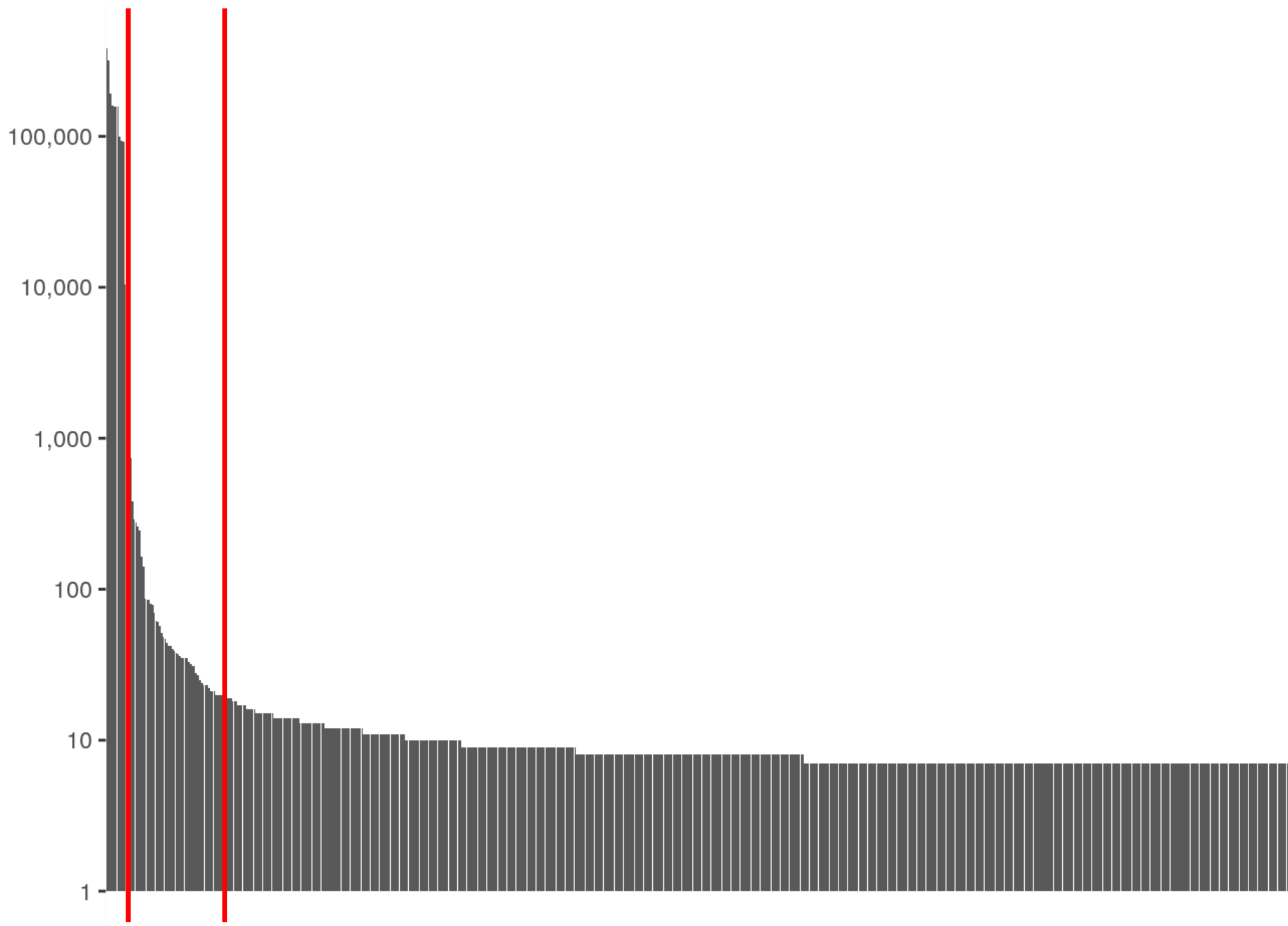
10

1



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Number of interconnections



[Browse index](#)[Search / results](#)[Data display](#)[F5](#) [F7](#) [<](#) [>](#)鏈接: <http://allegro.bodleian.ox.ac.uk/chinese/19961126172916odh>

書名: 續修四庫全書 / 《續修四庫全書》編纂委員會編

上海: 上海古籍出版社, [1995]-2002

精裝1800冊; 27公分

ISBN 7-5325-2460-4

藏館: BOD Chin.d.7988

- 馬王堆帛書周易經傳釋文 / 廖名春釋文
- 周易鄭注 十二卷 / (宋)王應麟輯; (清)丁杰後定; (清)張惠言訂正
周易鄭注敘錄 一卷 / (清)臧庸輯
影印清嘉慶二十四年[1819]湖海樓刊《湖海樓叢書》本
- 敦煌周易殘卷 / (魏)王弼注
影印法國國家圖書館藏卷
- 關氏易傳 一卷 / 題(後魏)關朗撰; (唐)趙蕤注
影印明范氏天一閣刊本
- 周易經典釋文殘卷 / (唐)陸德明撰
影印法國國家圖書館藏卷
- 周易正義 十四卷 / (唐)孔穎達撰
影印北京圖書館藏宋刊遞修本
- 周易注疏 十三卷 / (魏)王弼, (晉)韓康伯注; (唐)孔穎達疏
影印宋兩浙東路茶鹽司刊宋元遞修本
- 易經解 不分卷 / (宋)朱長文撰
影印明崇禎四年[1631]刊本
- 周易新講義 十卷 / (宋)龔原撰
影印日本文化五年[1808]活字印佚存叢書本
- 晦庵先生校正周易繫辭精義 二卷 / (宋)呂祖謙撰
影印光緒十年[1884]黎庶昌日本東京使署刊「古逸叢書」本
- 古易音訓 二卷 / (宋)呂祖謙撰; (清)宋咸熙輯
影印清嘉慶七年[1802]刊本
- 泰軒易傳 六卷 / (宋)李中正撰
影印日本寬政十二年[1800]活字印《佚存叢書》本
- 易經訓解 四卷 / (宋)熊禾撰
影印明崇禎十六年[1643]刊本
- 勿軒易學圖蒙圖傳通義 七卷 / (宋)熊禾述

[Browse index](#)[Search / results](#)[Data display](#)

F5 F7 < >

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 - Graph metrics
 - Encoding metrics (best practice)
 - understandability (human-friendly and multi-lingual labels etc.)
 - versatility (formats, endpoints and dumps, etc.)
- Web traffic
 - Server log + GoAccess

Oxford University Herbaria: data sharing



Stephen A. Harris

Department of Plant Sciences

What are herbaria?

- c. 2,600 herbaria world-wide
 - c. 300 million specimens
- Oxford University Herbaria
 - Est. 1621
 - Scientific focus on research & teaching
 - World-wide collection
 - c. 1,450,000 items
 - c. 1600 to present
 - Staffing: 2.6 FTEs



BRAHMS

Oxford: BRAHMS project X Home Page - BRAHMS C X

herbaria.plants.ox.ac.uk/bol/

Apps Home Page - BRAHMS Files - Dropbox Imported From IE Regulating the Use of

BRAHMS DATABASE
Herbaria Botanic gardens Seed banks Survey Floras Revisions

Home Managing data Publishing online Software Support Our research group News & Events Register Log in

BRAHMS (software updated to v7.9.6 on 26 September 2017) provides an integrated management system for herbaria, botanic gardens, seed banks and botanical survey as well as those undertaking floristic or taxonomic research. The BRAHMS project is an integral part of the research programme at Oxford to study and document plant diversity.

- **Rapid Data Entry (RDE)** optimises data and image capture, verifying data on entry.
- Querying with almost limitless flexibility.
- Sort, calculate, analyse and chart data based on single or multiple column selections.
- Format names, literature and other data for journal specific reporting.
- Design smart report templates using the graphic designer or the HTML formatter.
- Print reports directly from BRAHMS or send as text to documents.
- Map directly to Google Earth, ArcGIS, QGIS or in fact any GIS you want.
- Calculate and map plant richness and bio-quality at any scale.
- Select and export data to XML, CSV, Excel, Access, TXT and others.
- Exchange data using Darwin Core, Symbiota, API/LAPI.
- Design websites directly from BRAHMS using the WebConnect module.
- Upload data and images to your website(s) with data restriction themes.

Creating personal, institutional, national and regional data networks for research and curation with millions of data records and images, actively working in over 80 countries.

Project examples

- National Herbarium, Netherlands with over 6 million imaged specimens
- The herbaria of the Brazil Amazonian region
- The Morton Arboretum linking botanic garden and herbarium
- An e-Monograph of the Caracaseae
- The Millennium Seed Bank, RBG Kew: the world's largest seed bank
- A regional botanical network in South Africa
- Confifers of the World: an online resource leading to multiple publications

Check out more [projects and their websites](#) ...

June 2017: Query your database online using mobile friendly forms

A form designer with new data display options capable of running on smart phones has been added to BRAHMS online. Once logged in to your website and with the form designer opened (option: linked under your login options), you can set up one or more forms for the listed data categories (book, specimens, living collections, seed), choosing the form fields to include. The fields can be set to search on, starts with, exact match, 'contains' and numeric ranges - as appropriate. The form designer has a test facility within the designer itself. However, the idea is that you then copy the generated HTML code to a new page on your website and hence, adapt the code to your form appearance.

<http://herbaria.plants.ox.ac.uk/bol/>

Oxford University Herbaria data

- c. 151,000 digital records; c. 37,000 with image links
 - Primary scientific data are identity, time and space
 - Legal requirements, e.g., Nagoya, CBD and CITES
 - High value placed on metadata links & quality
 - Object conservation information
 - Object tracking and loan information
- Available on-line at <http://herbaria.plants.ox.ac.uk/bol/oxford/Explore>
 - All relevant data currently on-line
 - Data redacted for legal/ ethical reasons
- Data sharing
 - Automatic depositing of data with GBIF
 - Linked into other BRAHMS databases worldwide
 - Sharing data and lookup files with Oxford Botanic Garden
 - Will create a common database

Herbaria links

- Department: academics, PDRAs, PGs, UGs
- MPLS: Zoology, Earth Sciences, Engineering; Chemistry
- University: Social Sciences; Humanities; GLAM (BG, OUMNH, Bodleian, Ashmolean)
- Nationally & internationally: business, NGOs, governments, institutions, individuals

Where now?

- Digitisation & imaging of whole collection
 - Funding actively being sought
- Data access
 - Business plan for sustainability
- Increase collaboration & collection use
 - Research, teaching & training
- Public engagement through collaboration
 - e.g., Botanic Garden & Bodleian
- 400th Anniversary of plant sciences in Oxford (2021)

Step-by-step mapping

Records do not correspond to objects

Records correspond to evidence of events

Step-by-step mapping

Records do not correspond to objects

Records correspond to evidence of events

Always look for events

DBID
TYPE
BRAHMS
CATEGORY
UNIQUEID
IMAGES
MYDOCS
SPECIMENS
LIVING
ACCESSION
BARCODE
COLLECTOR
PREFIX
NUMBER
SUFFIX
ADDCOLL
ADDCOLLALL
DUPS
SUBHERB
DAY
MONTH
YEAR
DATERES
DATETEXT
COLLECTED
MONTHNAME
FAMCLASS
ORDER
FAMILY
CF
TAXSTAT
SPECIES
FULLNAME
ACCEPTED
CURATENAME
COMMON
FIELDDET
POLYNOMIAL
DETSTATUS
DETBY
DETDAY
DETMONTH

DETYEAR
DETDATE
DETNOTES
DETHISTORY
PLANTDESC
SEX
FLCODE
FRCODE
USERS
LCRAIDNOTE
QDRESID
ORIGINID
CONTINENT
REGION
COUNTRY
ALTCOUNTRY
MAJORAREA
MINORAREA
LCCPREFIX
GAZETTEER
LOCNOTES
SAMPLEID
SAMPNAME
LCSOURCE
LCORIGIN
PROVTYPE
ABUN
COUNT
DBH
HT
PLANTSAMP
POPSIZE
HABITATTXT
CULTIVATED
PHENOCULT
CULTNOTES
THREATS
GOOGLEMAPS
LAT
NS
LONG
EW

LLUNIT
LLRES
LLORIG
LLDATUM
LLCHECKED
QDS
LATLONG
LATDEC
LONGDEC
MAPERROR
DEGSQ
ALT
ALTMAX
ALTUNIT
ALTRES
ALTTEXT
ALTRANGE
GEODATA
NOTES
VERNACULAR
LANGUAGE
SPECDETAIL
GENUS
SP1
AUTHOR1
RANK1
SP2
AUTHOR2
RANK2
SP3
AUTHOR3
UNIQUE
LABELTOTAL
INITIAL
AVAILABLE
NOTAVAIL
COUSERSORT
PVIEW
GAZCODE
FHERBCODE
GHERBCODE
FACODE

GECODE
SPNUMBER
LCACC
SPSYNID
SPCODETYPE
ALTCS
DETBYCODE
TYPEDUCODE
CONUMBER
CELLNUM
TYPESUM
HOMETYPE
HOMETSTAT
IMAGELIST
TEMP
SORTID
ISONLINE
NOTONLINE
BOLRESTR
DETID
RDEFILE
REC SUMMARY
COMMENTS
MYSTRING
HOSTSP
HPFAMILY
HPGENUS
HPSP1
HPAUTHOR1
HPRANK1
HPSP2
HPAUTHOR2
HPRANK2
HPSP3
HPAUTHOR3
EDITDATE
EDITWHO
EDITHIST
CHECKWHO
CHECKDATE
CHECKNOTE
ENTRYDATE

DATETEXT



2017

COLLECTOR



2017

COLLECTOR

GEODATA



2017

COLLECTOR

DATETEXT

GEODATA



2017

COLLECTOR

DATETEXT

GEODATA

2002

2017





CRMsci : the Scientific Observation Model

S2 Sample Taking

O3 sampled from: S10 Material Sub/ntial

O4 sampled at: E53 Place

O5 removed: S13 Sample

O20 sampled from type of part: E55 Type

S1 Matter Removal

O1 diminished: S10 Material Substantial
O2 removed: S11 Amount of Matter

S2 Sample Taking

O3 sampled from: S10 Material Sub/ntial
O4 sampled at: E53 Place
O5 removed: S13 Sample
O20 sampled from type of part: E55 Type

E7 Activity

P14 carried out by: E39 Actor

P16 used specific object: E70 Thing

...

S1 Matter Removal

O1 diminished: S10 Material Substantial

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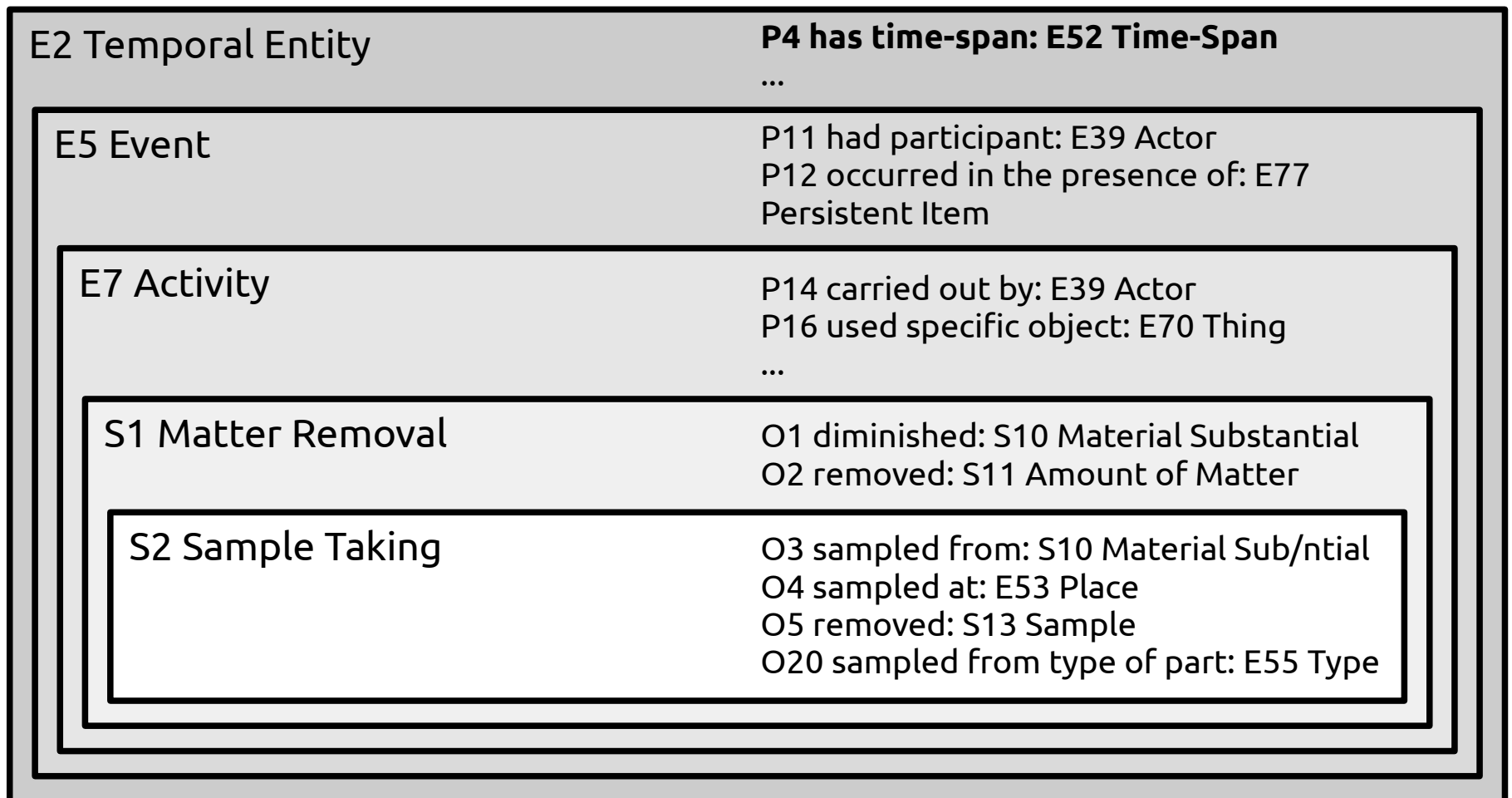
S2 Sample Taking

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O20 sampled from type of part: E55 Type



E1 CRM Entity

P1 is identified by: E41 Appellation
P2 has type: E55 Type
P3 has note: E62 String
P48 has preferred identifier: E42 Identifier
P137 exemplifies: E55 Type

S15 Observable Entity

O12 has dimension: E54 Dimension
...

E2 Temporal Entity

P4 has time-span: E52 Time-Span
...

E5 Event

P11 had participant: E39 Actor
P12 occurred in the presence of: E77
Persistent Item

E7 Activity

P14 carried out by: E39 Actor
P16 used specific object: E70 Thing
...

S1 Matter Removal

O1 diminished: S10 Material Substantial
O2 removed: S11 Amount of Matter

S2 Sample Taking

O3 sampled from: S10 Material Sub/ntial
O4 sampled at: E53 Place
O5 removed: S13 Sample
O20 sampled from type of part: E55 Type

COLLECTOR

DETDATE

DATETEXT

GEODATA

DETB

SP1...



...

2002

2006

2017

FHO - Chapman, J.D. - 4909 [E22_Man-Made_Object 🗑]

P138i_has_representation

C:\Users\Serena\Desktop\OXF-FHO specimen images\Image loans 2014\Mor-III-176-13.jpg

P1_is_identified_by

Embandja [E33_Linguistic_Object, E41_Appellation ☁]

Lady's Slipper@en [E41_Appellation ○]

P3_has_note

Rare@en

P2_has_type

V [E55_Type ○]

michauxii@la [E55_Type ○]

chrysophylla@la [E55_Type ○]

TYPE@en [E55_Type ○]

hondurensis@la [E55_Type ○]

Solanum Bonariense@la [E55_Type ○]

Fabaceae@la [E55_Type ○]

NOT CULTIVATED@en [E55_Type ○]

NOT PHENOTYPE IN CULTIVATION@en [E55_Type ○]

Millettia@la [E55_Type ○]

View all (10 entries) 🔗

P41i_was_classified_by

<http://herbaria.plants.ox.ac.uk/fho-chapmanjd-4909/type-assignment> [E17_Type_Assignment 🔄]

O5i_was_removed_by

<http://herbaria.plants.ox.ac.uk/fho-chapmanjd-4909/sample-taking> [S2_Sample_Taking ○]

P46i_forms_part_of

Container for FHO - Chapman, J.D. - 4909 [E22_Man-Made_Object 🗑]

P48_has_preferred_identifier

FHO - Chapman, J.D. - 4909@en [E42_Identifier ○]

P70i_is_documented_in

<http://herbaria.plants.ox.ac.uk/fho-chapmanjd-4909/cultural-notes> [E31_Document ☁]<http://herbaria.plants.ox.ac.uk/fho-chapmanjd-4909/plant-description> [E31_Document ☁]

O5i_was_removed_by

<http://herbaria.plants.ox.ac.uk/fho-chapmanjd-4909/sample-taking> [S2_Sample_Taking ]

—

P2_has_type

10 [E55_Type ]

1900@en [E55_Type ]

O4_sampled_at

<http://herbaria.plants.ox.ac.uk/authority/places/mulanjedistrict> [E53_Place ]

—

P1_is_identified_by

Mulanje District@en [E41_Appellation ]

<http://herbaria.plants.ox.ac.uk/authority/places/southernprovince> [E53_Place ]

+

<http://herbaria.plants.ox.ac.uk/authority/places/africa> [E53_Place ]

+

<http://herbaria.plants.ox.ac.uk/authority/places/zambia> [E53_Place ]

+

<http://herbaria.plants.ox.ac.uk/fho-chapmanjd-4909/place> [E53_Place ]

—

P3_has_note

Close to Laguna Tecomapa@en

P1_is_identified_by

21°38' S, 165°52' E Alt: 750m [E47_Spatial_Coordinates ]

<http://herbaria.plants.ox.ac.uk/authority/places/southtropicalafrica> [E53_Place ]

+

collapse list (6 entries) ▲

P14_carried_out_by

<http://herbaria.plants.ox.ac.uk/authority/people/galleyca> [E21_Person ]

—

P1_is_identified_by

Galley, C.A.@en [E41_Appellation ]

<http://herbaria.plants.ox.ac.uk/authority/people/chapmanjd> [E21_Person ]

+

P4_has_time-span

<http://herbaria.plants.ox.ac.uk/fho-chapmanjd-4909/sample-taking-time-span> [E52_Time-Span ]

—

P82_at_some_time_within

25-May-55@en

P41i_was_classified_by

<http://herbaria.plants.ox.ac.uk/fho-chapmanjd-4909/type-assignment> [E17_Type_Assignment ↻]

P14_carried_out_by

<http://herbaria.plants.ox.ac.uk/authority/people/strugnellam> [E21_Person 👤]

P1_is_identified_by

Strugnell, A.M.@en [E41_Appellation ⦿]

P2_has_type

Doubtful det@en [E55_Type ⦿]

P4_has_time-span

<http://herbaria.plants.ox.ac.uk/fho-chapmanjd-4909/type-assignment-time-span> [E52_Time-Span ⦿]

P82_at_some_time_within

25-May-55@en

P3_has_note

Record added by system as no dethistory record located@en

FHO - Chapman, J.D. - 4909 [E22_Man-Made_Object 🗑]

P138i_has_representation

C:\Users\Serena\Desktop\OXF-FHO specimen images\Image loans 2014\Mor-III-176-13.jpg

P1_is_identified_by

Embandja [E33_Linguistic_Object, E41_Appellation ☁]

P72_has_language

Bambenjele [E56_Language ○]

Lady's Slipper@en [E41_Appellation ○]

P3_has_note

Rare@en

P2_has_type

V [E55_Type ○]

michauxii@la [E55_Type ○]

P94i_was_created_by

<http://herbaria.plants.ox.ac.uk/michauxii/type-creation> [E83_Type_Creation ○]

P14_carried_out_by

<http://herbaria.plants.ox.ac.uk/authority/people/sarg> [E21_Person 👤]

P1_is_identified_by

Sarg. [E41_Appellation ○]

P2_has_type

var.@en [E55_Type ○]

chrysophylla@la [E55_Type ○]

TYPE@en [E55_Type ○]

hondurenses@la [E55_Type ○]

Solanum Bonariense@la [E55_Type ○]

Fabaceae@la [E55_Type ○]

NOT CULTIVATED@en [E55_Type ○]

NOT PHENOTYPE IN CULTIVATION@en [E55_Type ○]

Millettia@la [E55_Type ○]

Automatic Reconciliation

- International Plant Names Index (IPNI)
 - species and people
- Virtual International Authority File (VIAF)
 - people
- GeoNames
 - places
- Only responses with one result

```

PREFIX skos: <http://www.w3.org/2004/02/skos/core#>
PREFIX dbo: <http://dbpedia.org/ontology/>
PREFIX crm: <http://www.cidoc-crm.org/cidoc-crm/>
PREFIX wd: <http://www.wikidata.org/entity/>
PREFIX wdt: <http://www.wikidata.org/prop/direct/>

SELECT ?s ?ipniid ?item ?res
WHERE {
  SERVICE <https://antheia-blazegraph.oerc.ox.ac.uk/blazegraph/namespace/druce-collection/sparql> {
    ?s a <http://www.cidoc-crm.org/cidoc-crm/E20_Biological_Object> .
    ?s crm:P2_has_type ?type .
    ?type crm:P2_has_type <http://herbaria.plants.ox.ac.uk/authority/terms/sp1> .
    ?type skos:exactMatch ?ipniuri
      BIND(SUBSTR(STR(?ipniuri), 41) AS ?ipniid) }

  SERVICE <https://query.wikidata.org/sparql> {
    ?item wdt:P961 ?ipniid .
    ?res ?p ?item .
  }
}

LIMIT 10000

```


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[Geography](#)

[Taxa](#)

Species Search:

- Families
- ☐ Absent (4)
 - ☐ Acanthaceae (110)
 - ☐ Aceraceae (3)
 - ☐ Achariaceae (1)
 - ☐ Achatocarpaceae (1)
 - ☐ Achnanthaceae (4)
 - ☐ Achnanthidiaceae (1)
 - ☐ Acinetosporaceae (5)
 - ☐ Acoraceae (1)
 - ☐ Acrochaetiaceae (3)
 - ☐ Acrosymphytaceae (1)
 - ☐ Acrotylaceae (2)
 - ☐ Actinidiaceae (2)
 - ☐ Adiantaceae (18)
 - ☐ Adoxaceae (3)
 - ☐ Aextoxicaceae (1)
 - ☐ Agapanthaceae (1)
 - ☐ Agaricaceae (3)
 - ☐ Agavaceae (5)
 - ☐ Agdestidaceae (1)
 - ☐ Agryiaceae (1)
 - ☐ Ahnfeliaceae (1)
 - ☐ Alizoaceae (18)
 - ☐ Akaniaceae (1)
 - ☐ Alangiaceae (1)
 - ☐ Alariaceae (1)
 - ☐ Algae (3)
 - ☐ Algafamily (4)
 - ☐ Alismataceae (6)

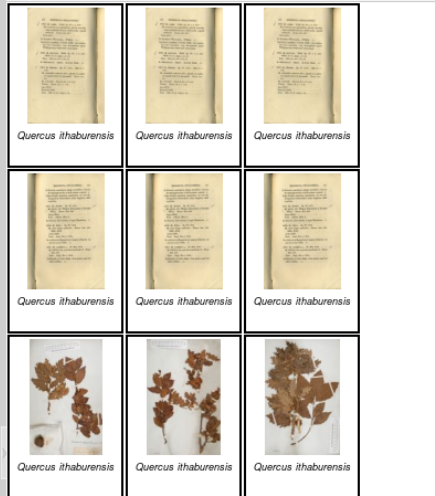
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 Filter:

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View: [Taxa](#)

TaxStat	Family	Genus	Name	Author	Accepted Name	Images
	Fagaceae	Quercus	Quercus ithaburensis	Decne.		0
	Fagaceae	Quercus	Quercus ithaburensis ssp. macrolepis	Decne.		5

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(2264)



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Quercus ithaburensis

From Wikipedia, the free encyclopedia

Quercus ithaburensis, **Mount Tabor oak**, is a tree in the [beech family](#).

It is found in Southeastern [Europe](#), from southeastern [Italy](#),^[2] southern [Albania](#) and [Greece](#),^[3] and in southwestern [Asia](#) from [Turkey](#) south through [Lebanon](#), [Israel](#), [Syria](#),^[4] and neighboring [Jordan](#),^[5] whose [national tree](#) it is.

Quercus ithaburensis is a small to medium-sized [semi-evergreen](#) to tardily [deciduous](#) tree growing to a maximum height of around 50 feet (15 m) with a rounded crown and often with a gnarled trunk and branches. The leaves are 1.6–3.5 in (4–9 cm) long and 0.8–2.0 in (2–5 cm) wide, oval in shape, with 7 to 10 pairs of either teeth (most common) or shallow lobes (rare) along a [revolute](#) margin. They are dark glossy green above and gray [tomentose](#) below.^{[6][7]}

The male flowers are light green 2 in (5 cm) long [catkins](#) while the female flowers are small (less than 1⁄10 in (0.4 mm)), produced in 3's on short stalks called [peduncles](#) and are wind pollinated. Flowering occurs from March through April in most of its native range. The acorns are generally oval, up to 2 in (5 cm) long and 1.2 in (3 cm) wide with a cap covering roughly 1⁄3 of the acorn, maturing in 18 months, dropping from the tree in the 2nd [fall](#) after pollination. The cap is covered in long stiff loose scales which are rolled backwards or [involute](#) especially along the edges of the cap.^{[6][7] [8]}

References [edit]

- ↑ The Plant List, *Quercus ithaburensis* Decne.
- ↑ Altervista Flora Italiana, *Quercus ithaburensis* Decne. includes many photos
- ↑ Baldacci, Antonio 1895. *Malpighia* 9: 351-352 in Italian, as *Quercus cretica*
- ↑ Decaisne, Joseph 1835. *Annales des Sciences Naturelles; Botanique, sér. 2* 4: 348-349 description in Latin, commentary in French
- ↑ Mouterde, Paul 1966. *Nouvelle Flore du Liban et de la Syrie* 1: 365
- ↑ ***^a ^b*** Oaks of the World: *Quercus ithaburensis*
- ↑ ***^a ^b*** Wild Flowers of Israel: *Quercus ithaburensis*
- ↑ Menitsky, Yu.L. (2005). *Oaks of Asia*. Science Publishers ISBN 1-57808-229-3.

External links [edit]

- Line drawing from Flora Palaestina

Categories: [Quercus](#) | [Flora of the Mediterranean](#) | [Flora of the Middle East](#) | [Plants described in 1835](#)

Quercus ithaburensis



Scientific classification

Kingdom: [Plantae](#)
(unranked): [Angiosperms](#)
(unranked): [Eudicots](#)
(unranked): [Rosids](#)
Order: [Fagales](#)
Family: [Fagaceae](#)
Genus: [Quercus](#)
Section: [Cerris](#)
Species: ***Q. ithaburensis***

Binomial name

Quercus ithaburensis
 Decne. 1835

Synonyms^[1]

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TODO:

- Revise other types of records
- Map all fields
- Reconcile records
- Integration with other datasets
 - e.g. Museum of Natural History

Fossil plants from MNH

- Collected By (Field Collectors)
 - Person who collected object
- Locality, Country
 - Location of collected object
- Genus, species, subspecies, order, class
 - Classification
- Parenthetical author
- ...



Next Open Workshop

9 January 2018 - OeRC

Druce collection + Natural History Fossil plants

Sarah Joomun

EMu

Stephen Johnston

More metrics

