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ENHANCING ANNOTATIONS

Getting more details for
extracted data

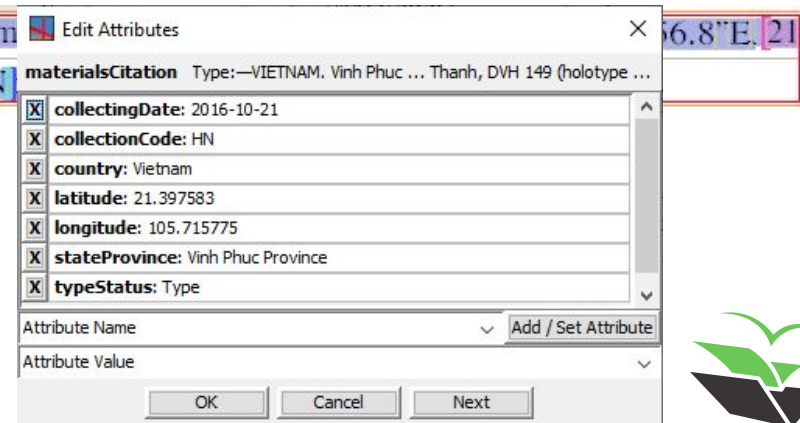
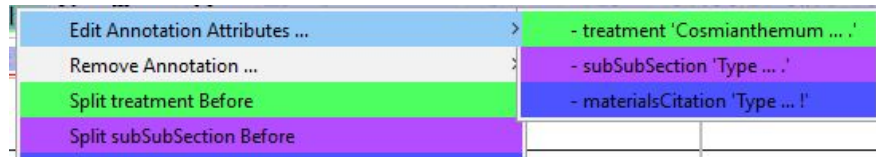
Julia Giora
Jonas Castro
Donat Agosti

<https://plazi.org/>

➤ Edit Annotations Attributes

- Click on “Edit Annotation Attributes” and select the annotation you want to edit
- You can choose any attribute and edit it manually. Just remember to click on “Add / Set Attribute to save the changes, and then click on “OK”

Type:—VIETNAM Vinh Phuc Province Phuc Yen Town, Ngoc Thanh com
October 2016. Do Van Hai, Trinh Xuan Thanh, DVH 149 (holotype HN 6.8"E, 21



➤ Copy Annotation Attributes

- Click on “Copy Annotation Attributes” and select the annotation you want to copy
- Then, just click on the annotation you want to receive the attributes

[Additional Specimens Examined (Paratypes)]—VIETNAM, Vinh Phuc; Phuc Yen Town, Ngoc Thanh commune, elev. ca. 57 m, 21°22'40.7"N, 105°42'41.3"E, 27 January 2013, *Do Van Hai et al.*, *ML281* (HN) [ibid elev. ca. 155 m, 21°23'51.7"N, 105°43'41.2"E, 25 January 2015, *Do Van Hai et al.*, *MLS 135* (HN) [ibid elev. ca. 160 m, 21°23'52.3"N, 105°42'56.3"E, 15 January 2018, *Do Van Hai*, *DVH 15012016* (HN) [ibid elev. ca. 148 m, 21°23'48.9"N, 105°42'56.9"E, 24 March 2021, *Do Van Hai*, *Nguyen The Cuong*, *Trin*

Notes:—*Cosmianthemum melinhense* is allied to *C. guangxiense* H.S.Lo & D.Far *knoxifolium* and *C. viriduliflorum* (CY Wu & H.S.Lo) H.S.Lo in Fang *et al.*, (1997: 42 of the inflorescence, stamens, staminodes, and fruits. However, it differs from *C. viric* ovate-lanceolate leaf blade with more pairs of secondary veins; longer bracts and only



Edit Annotation Attributes ...	>	
Copy Annotation Attributes ...	>	- treatment 'Cosmianthemum ...'
Remove Annotation ...	>	- subSubSection 'Distribution ...'
Split treatment Before	>	- materialsCitation 'ibid ...'
Split subSubSection Before	>	
Split materialsCitation Before	>	



➤ Parsing Materials Citations

- “Parse materials citations (subSubSection)” will parse the materials from that section individually

Check Materials Citation Details - (1 of 2)

What to do in this dialog? (click to collapse)
Please make sure that all the details of this materials citation are marked.
If the materials citation refers to the data from the previous one, please do the following:
- mark the details given here, eg the type status
- mark the remainder of the materials citation as **backReference**
This will import all detail data from the previous materials citation.

collectionCode	specimenCount	specimenCode	accessionNumber
typeStatus	collectingCountry	collectingRegion	collectingMunicipality
collectingCounty	location	locationDeviation	originalDetermination
determinerName	collectorName	collectingDate	collectedFrom
collectingMethod	collectingPermit	geoCoordinate	elevation
geologicalTimeScale	backReference		

Type: -VIETNAM. Vinh Phuc Province: Phuc Yen Town, Ngoc Thanh commune, elev. ca. 152 m, 21°23'51.3"N, 105°42'56.8"E, 21 October 2016, Do Van Hai, Trinh Xuan Thanh, DVH 149 (holotype **HN**!

Cancel OK & Next Skip & Next Reset

Zoom Control - 1.0 +

- Parse Materials Citation Details (materialsCitation)
- Extract Materials Citations (subSubSection)
- Parse Materials Citations (subSubSection)
- Mark Taxon Names (treatment)
- Mark Treatment Citations (treatment)
- Parse Materials Citations (treatment)



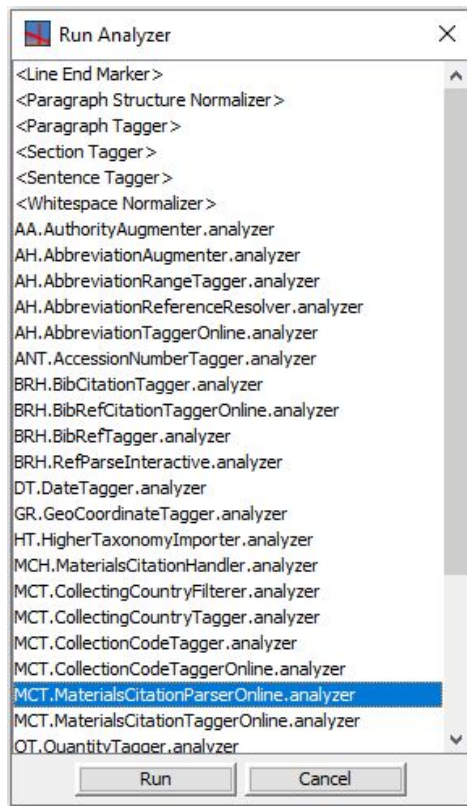
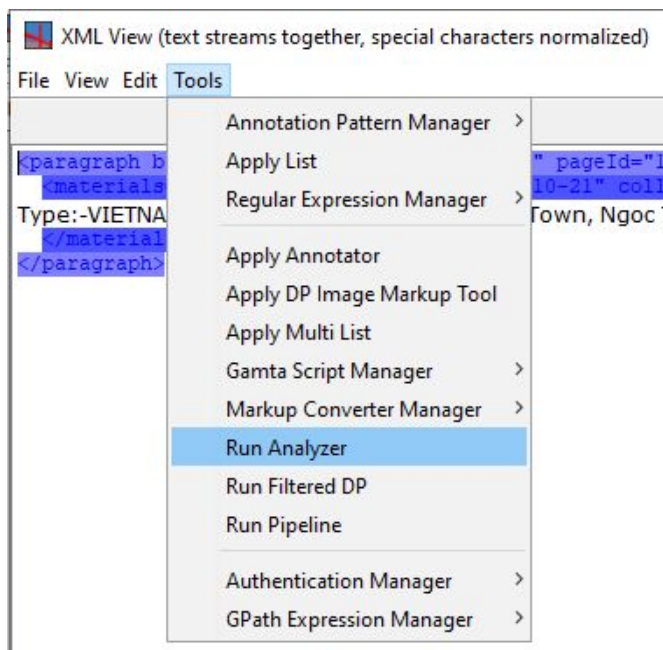
➤ Parsing Materials Citations (XML view)

- At this time of the course, it is useful to open and parse a material citation individually

The screenshot displays a software interface with a context menu open over a text area. The text area contains the following text: "Type:—VIETNAM, Vinh Phuc Province, Phuc Yen Town, Ngoc Thanh commune, elev. ca. 152 m. 21°23'51.3"N, 105°42'56.8"E, 21 October 2016. Do V holotype HN, [isotypes HN, IBSC]". Below this text, there is a line: "A NEW SPECIES OF SE ——— *Phytotaxa* 538 (2) © 2022 Magnolia Press 125". The context menu is open over the text "A NEW SPECIES OF". The menu items are: "Edit Annotation Attributes ...", "Remove Annotation ...", "Split treatment Before", "Split subSubSection Before", "Split materialsCitation Before", "Parse Materials Citations (subSubSection)", "Parse Materials Citations (treatment)", "Set Next Word Relation", "Set Previous Word Relation", "Show XML View ...", and "More ...". The "Show XML View ..." item is selected, and a sub-menu is open showing: "- treatment 'Cosmianthemum ... '", "- subSubSection 'Type ... '", and "- materialsCitation 'Type ... !'".



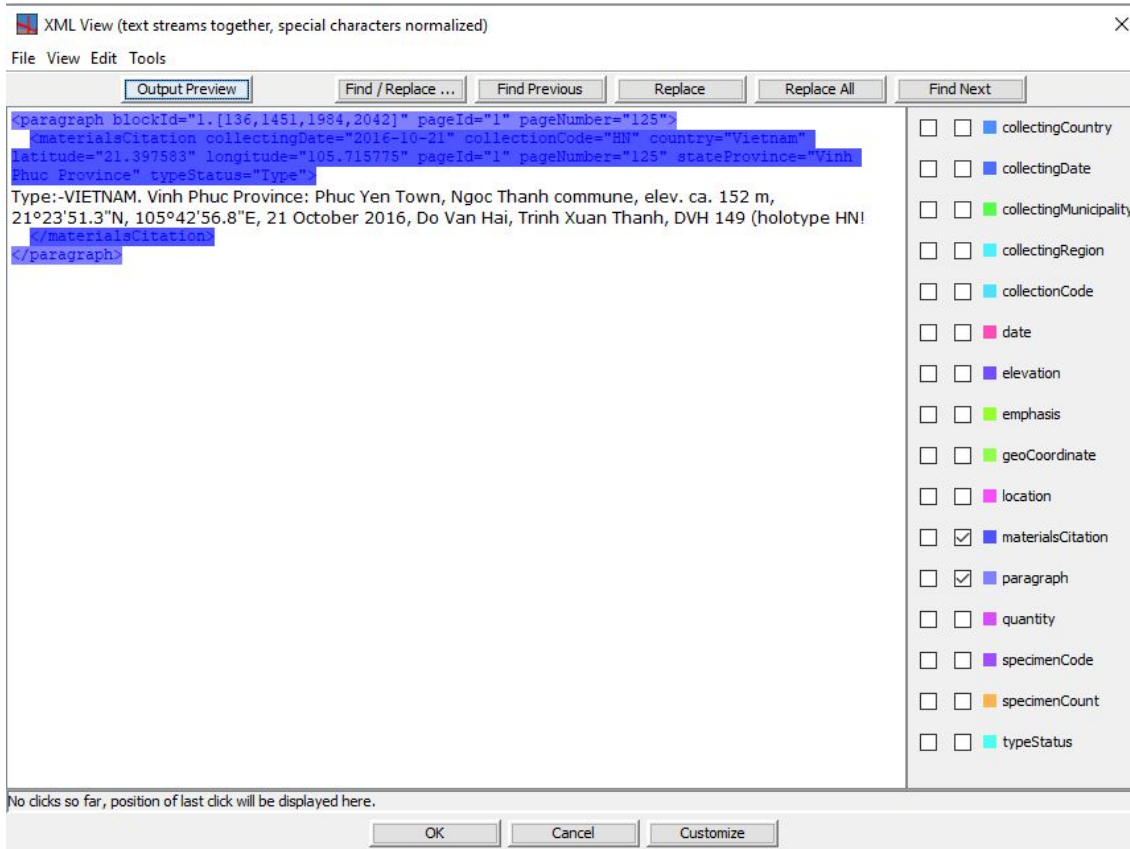
➤ Parsing Materials Citations (XML view)



- Check materials citations details in the attributes
- Check paragraphs after closing



➤ XML View



The screenshot shows a software window titled "XML View (text streams together, special characters normalized)". The window has a menu bar with "File", "View", "Edit", and "Tools". Below the menu bar are several buttons: "Output Preview", "Find / Replace ...", "Find Previous", "Replace", "Replace All", and "Find Next". The main area of the window displays XML code with several elements highlighted in blue. The code includes a paragraph tag with attributes for blockId, pageId, and pageNumber, followed by a materialsCitation tag with attributes for collectingDate, collectionCode, country, latitude, longitude, pageId, pageNumber, stateProvince, and typeStatus. Below the XML code is a text description: "Type:-VIETNAM. Vinh Phuc Province: Phuc Yen Town, Ngoc Thanh commune, elev. ca. 152 m, 21°23'51.3"N, 105°42'56.8"E, 21 October 2016, Do Van Hai, Trinh Xuan Thanh, DVH 149 (holotype HN!". The XML code is followed by a closing paragraph tag. To the right of the XML code is a list of elements with checkboxes. The elements are: collectingCountry, collectingDate, collectingMunicipality, collectingRegion, collectionCode, date, elevation, emphasis, geoCoordinate, location, materialsCitation, paragraph, quantity, specimenCode, specimenCount, and typeStatus. The checkboxes for materialsCitation and paragraph are checked.

File View Edit Tools

Output Preview Find / Replace ... Find Previous Replace Replace All Find Next

<paragraph blockId="1.[136,1451,1984,2042]" pageId="1" pageNumber="125">
 <materialsCitation collectingDate="2016-10-21" collectionCode="HN" country="Vietnam"
 latitude="21.397583" longitude="105.715775" pageId="1" pageNumber="125" stateProvince="Vinh
 Phuc Province" typeStatus="Type">
Type:-VIETNAM. Vinh Phuc Province: Phuc Yen Town, Ngoc Thanh commune, elev. ca. 152 m,
21°23'51.3"N, 105°42'56.8"E, 21 October 2016, Do Van Hai, Trinh Xuan Thanh, DVH 149 (holotype HN!
 </materialsCitation>
</paragraph>

collectingCountry
 collectingDate
 collectingMunicipality
 collectingRegion
 collectionCode
 date
 elevation
 emphasis
 geoCoordinate
 location
 materialsCitation
 paragraph
 quantity
 specimenCode
 specimenCount
 typeStatus

No clicks so far, position of last click will be displayed here.

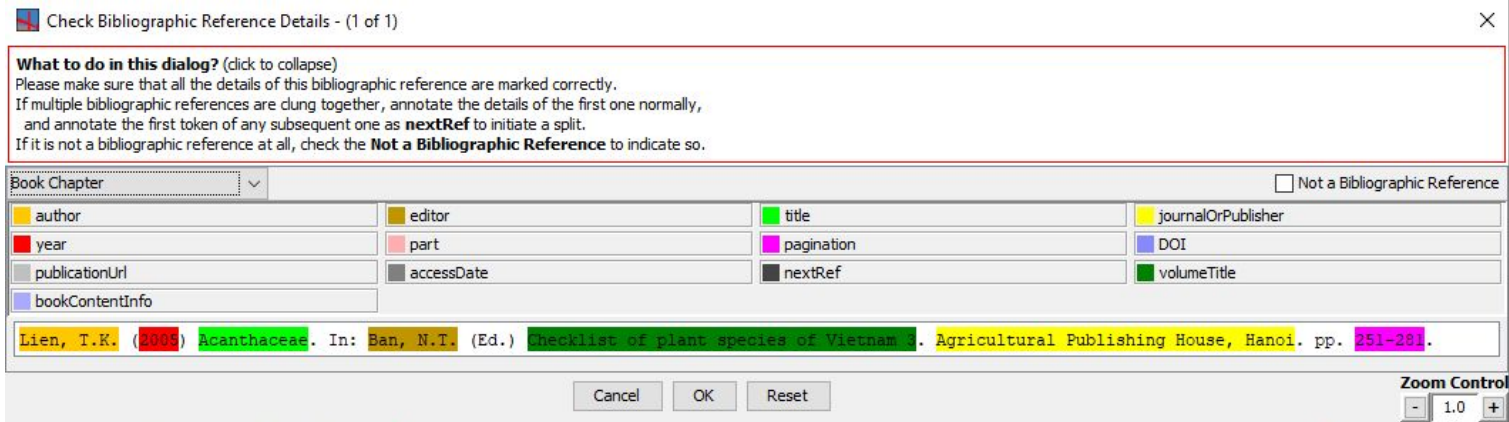
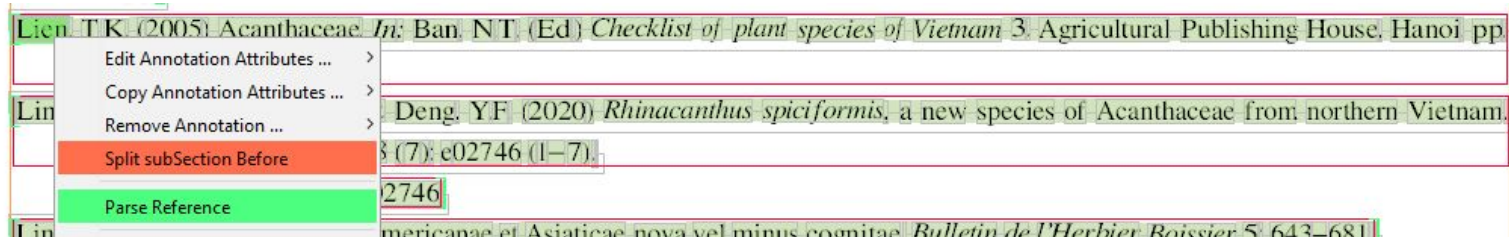
OK Cancel Customize

- Checkboxes:
 - On the right: boundaries are delimited
 - On the left: all text is highlighted



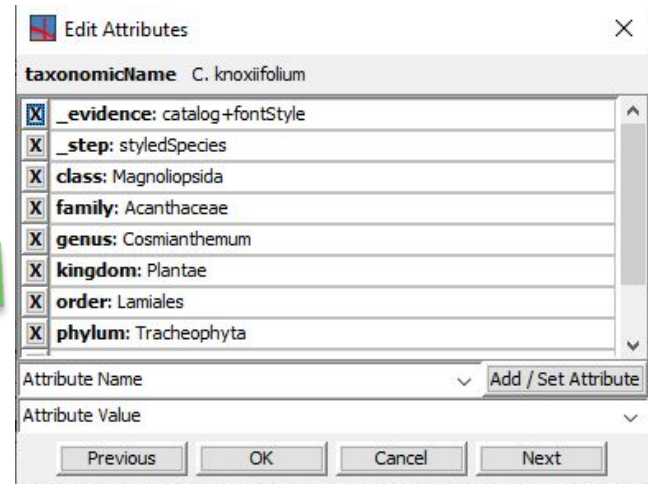
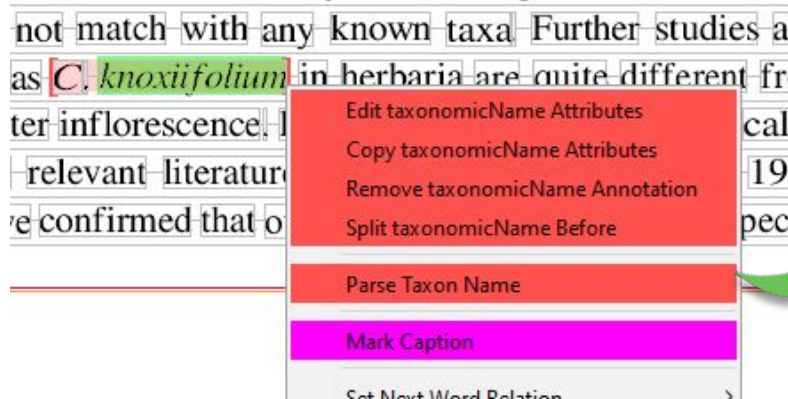
➤ Parse reference

- Click on a reference and select “Parse Reference”. It will parse that bibliographic reference individually



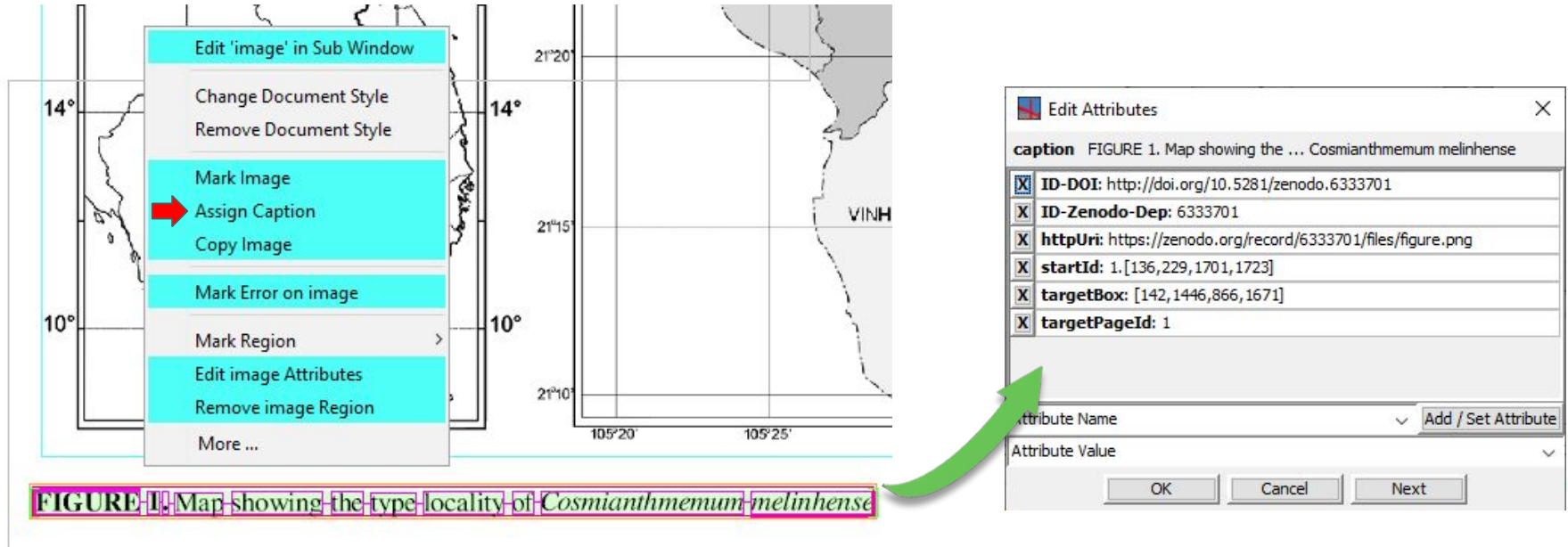
➤ Parse taxon name

- Click on a taxonomicName and select “Parse Taxon Name”. The attributes will be imported from GBIF backbone



➤ Assign captions for figures and tables

- Click on the image/table and choose “Assign Caption”



The image shows a software interface with a map and an 'Edit Attributes' dialog box. The map displays a geographical area with latitude and longitude coordinates (14°, 10°, 21°20', 21°15', 21°10', 105°20', 105°25') and a label 'VINH'. A context menu is open over the map, with the 'Assign Caption' option highlighted by a red arrow. The 'Edit Attributes' dialog box is open, showing the following information:

Edit Attributes

caption FIGURE 1. Map showing the type locality of *Cosmianthmemum melinhense*

<input checked="" type="checkbox"/>	ID-DOI: http://doi.org/10.5281/zenodo.6333701
<input checked="" type="checkbox"/>	ID-Zenodo-Dep: 6333701
<input checked="" type="checkbox"/>	httpUri: https://zenodo.org/record/6333701/files/figure.png
<input checked="" type="checkbox"/>	startId: 1.[136,229,1701,1723]
<input checked="" type="checkbox"/>	targetBox: [142,1446,866,1671]
<input checked="" type="checkbox"/>	targetPageId: 1

Attribute Name: Add / Set Attribute

Attribute Value:

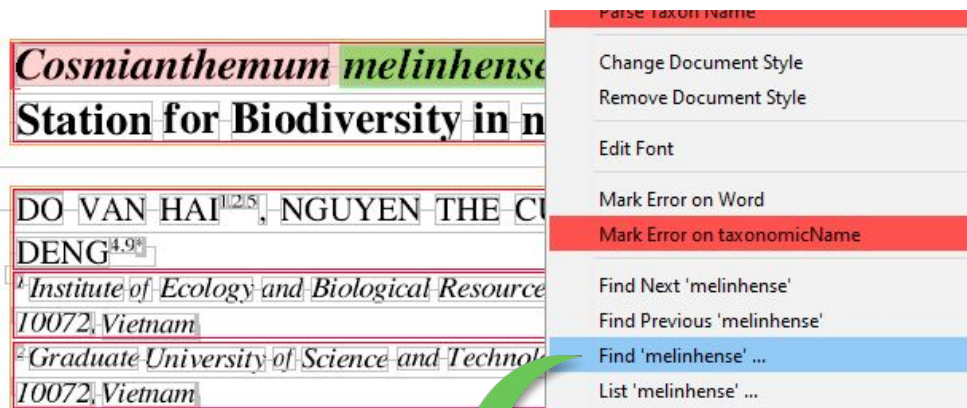
Buttons: OK, Cancel, Next

FIGURE 1. Map showing the type locality of *Cosmianthmemum melinhense*

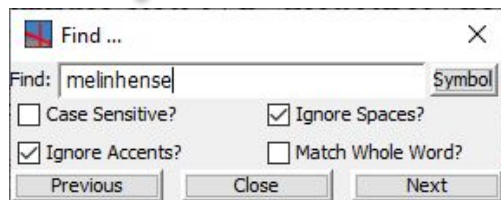


➤ Find or List Words

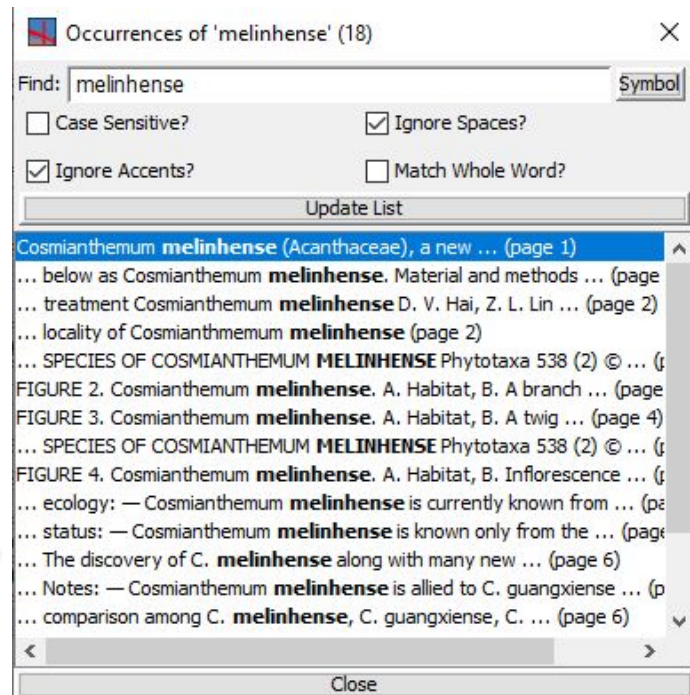
- Search for a specific word



The image shows a document snippet with the text "Cosmianthemum melinhense" and "Station for Biodiversity in n...". A context menu is open over the word "melinhense". The menu items are: "Parse taxon name", "Change Document Style", "Remove Document Style", "Edit Font", "Mark Error on Word", "Mark Error on taxonomicName", "Find Next 'melinhense'", "Find Previous 'melinhense'", "Find 'melinhense' ..." (highlighted), and "List 'melinhense' ...".



The "Find ..." dialog box is shown with the search term "melinhense" in the "Find:" field. The options are: "Case Sensitive?" (unchecked), "Ignore Spaces?" (checked), "Ignore Accents?" (checked), and "Match Whole Word?" (unchecked). The "Previous", "Close", and "Next" buttons are visible at the bottom.

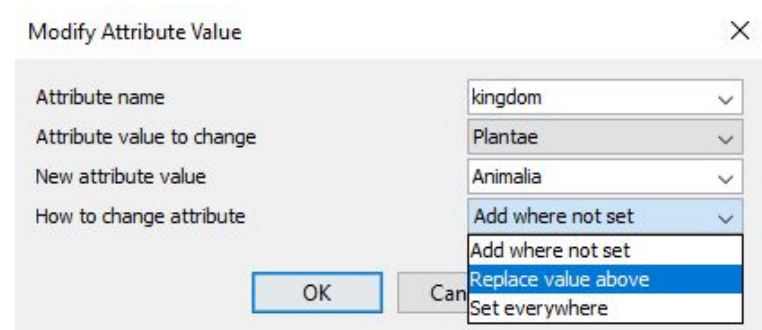
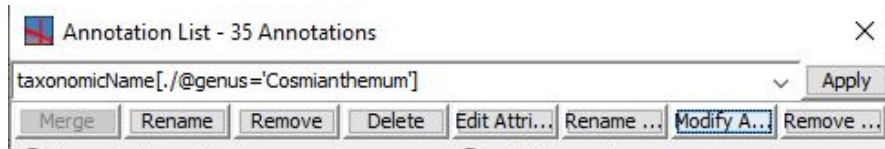


The "Occurrences of 'melinhense' (18)" dialog box is shown. The search term "melinhense" is in the "Find:" field. The options are: "Case Sensitive?" (unchecked), "Ignore Spaces?" (checked), "Ignore Accents?" (checked), and "Match Whole Word?" (unchecked). The "Update List" button is visible. The list of occurrences is shown below, with the first entry highlighted: "Cosmianthemum melinhense (Acanthaceae), a new ... (page 1)".



➤ List Annotations

- Select 'Edit -> List Annotations'
- Use formulas to search for annotations of interest
 - Merge annotations
 - Rename (change type of annotation)
 - Remove (not Delete)
 - Edit attributes
 - Rename.../Modify.../Remove... a group of attributes



➤ List Annotations

- Search for attributes:
 - taxonomicName[./@genus='Cosmianthemum']
 - taxonomicName[./@species='melinhense']
 - materialsCitation[./@typeStatus='holotype']

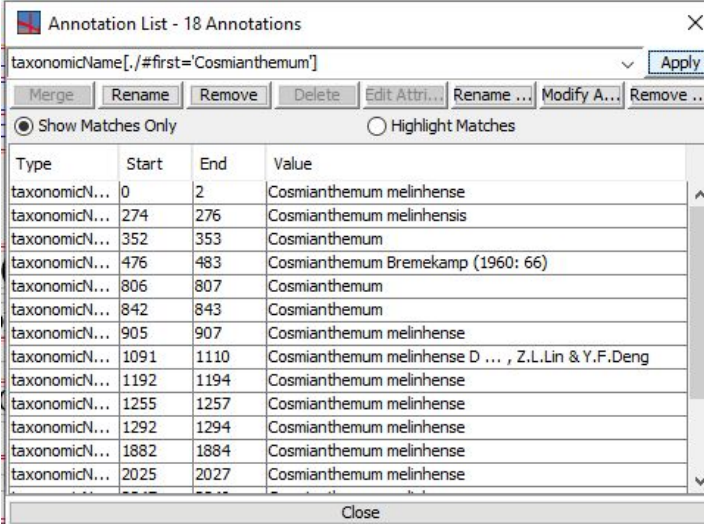
Type	Start	End	Value
taxonomicN...	0	2	Cosmianthemum melinhense
taxonomicN...	274	276	Cosmianthemum melinhense
taxonomicN...	295	298	C. guangxiense
taxonomicN...	299	302	C. knoxifolium
taxonomicN...	304	307	C. viriduliflorum
taxonomicN...	352	353	Cosmianthemum
taxonomicN...	476	483	Cosmianthemum Bremekamp (1960: 66)
taxonomicN...	742	763	C. knoxifolium (C.B. ... B.Hansen (1985: 195)
taxonomicN...	806	807	Cosmianthemum
taxonomicN...	827	830	C. knoxifolium
taxonomicN...	842	843	Cosmianthemum
taxonomicN...	905	907	Cosmianthemum melinhense
taxonomicN...	1091	1110	Cosmianthemum melinhense D ... , Z.L.Lin & Y.F.Deng
taxonomicN...	1192	1194	Cosmianthemum melinhense

Attribute	Value
authorityName [13/35]	D. V. Hai, Z. L. Lin & Y. F. Deng
authorityPageNumber	<2 different unique values>
authorityYear [13/35]	2022
baseAuthorityName	<2 different unique values>
baseAuthorityPageNumber	<1 different unique values>
baseAuthorityYear	<1 different unique values>
box	<33 different unique values>
class [35]	Magnoliopsida
family [35]	Acanthaceae
genus [35]	Cosmianthemum
kingdom [35]	Plantae



➤ List Annotations

- Search for annotations:
 - `collectionCode[./#first='NHMB']`
 - `taxonomicName[./#first='Cosmianthemum']`
 - `taxonomicName[./#last='melinhense']`



Annotation List - 18 Annotations

taxonomicName[./#first='Cosmianthemum']

Show Matches Only Highlight Matches

Type	Start	End	Value
taxonomicN...	0	2	Cosmianthemum melinhense
taxonomicN...	274	276	Cosmianthemum melinhensis
taxonomicN...	352	353	Cosmianthemum
taxonomicN...	476	483	Cosmianthemum Bremekamp (1960: 66)
taxonomicN...	806	807	Cosmianthemum
taxonomicN...	842	843	Cosmianthemum
taxonomicN...	905	907	Cosmianthemum melinhense
taxonomicN...	1091	1110	Cosmianthemum melinhense D ... , Z.L.Lin & Y.F.Deng
taxonomicN...	1192	1194	Cosmianthemum melinhense
taxonomicN...	1255	1257	Cosmianthemum melinhense
taxonomicN...	1292	1294	Cosmianthemum melinhense
taxonomicN...	1882	1884	Cosmianthemum melinhense
taxonomicN...	2025	2027	Cosmianthemum melinhense



➤ List Annotations

- Search for annotations inside annotations:
 - subSection/collectionCode
 - subSection/materialsCitations

P.S: Useful for finding all misassigned annotations

Material and methods

Extensive field works were undertaken in Vinh Phuc province, northeastern Vietnam from 2013 to 2021 by the first author. The morphological description of the new species is based on the examination of fresh plant and dried specimens. Vouchers were prepared following the standard protocol (Jain & Rao 1977). [The voucher specimens are deposited in the herbaria of Institute of Ecology and Biological Resources, Vietnam Academy of Science and Technology (HN); and herbarium of South China Botanical Garden, Chinese Academy of Sciences (IBSC). Materials in several herbaria (AAU, BM, E, GXIB, HNU, IBSC, K, KUN, L, P, and SING; acronym follows Thiers 2021) were also examined in order to compare with other Asian taxa to determine the new taxon. For List Categories and Criteria (IUCN 2012, 2019) is applied.]

Annotation List - 1 Annotations

subSection/materialsCitation Apply

Merge Rename Remove Delete Edit Attri... Rename ... Modify A... Remove ...

Show Matches Only Highlight Matches

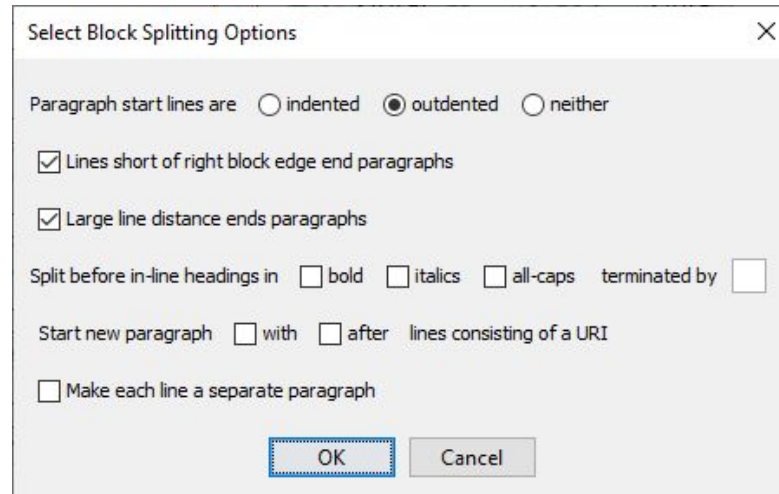
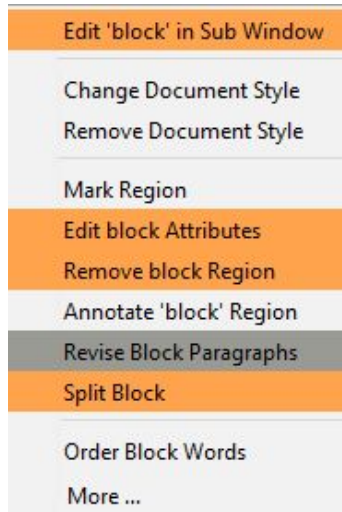
Type	Start	End	Value
materialsCit...	965	1034	The voucher specimens ... , KUN, L, P, and SING

Close



➤ Revise Block Paragraphs

- Click inside a block, in any part but words
- Select 'Revise Block Paragraphs'
- Toggle between “indented”/“outdented” OR checking “Make each line a separate paragraph” may be useful



➤ Revise Block Paragraphs

[1249] *Eugenia patrisii* Vahl

Eclog. Amer. 2: 35 (Vahl 1798). — *Myrtus patrisii* (Vahl) Spreng. *Syst. Veg. [Sprengel]* 2: 480 [Jan. May 1825] (Sprengel 1825). — *Stenocalyx patrisii* (Vahl) O.Berg. *Linnaea* 29 (2): 247 [June 1858] (Berg 1858).

Eugenia inocarpa DC. *Prodr. [A. P. de Candolle]* 3: 264 [mid Mar. 1828] (Candolle 1828). — *Myrtus inocarpa* Mart. ex DC. *Prodr. [A. P. de Candolle]* 3: 264 [mid Mar. 1828] (Candolle 1828). *nom. nud. pro syn.*

Eugenia berlynensis O.Berg. *Linnaea* 27 (4): 468 ["1854"] publ. Feb. 1856] (Berg 1856).

Eugenia teffensis O.Berg. *Fl. Bras. [Martius]* 14 (1): 255 [15 May 1857] (Berg 1857).

Eugenia vellozoi O.Berg. *Fl. Bras. [Martius]* 14 (1): 255 [15 May 1857] (Berg 1857). "vellozii".

Eugenia teffensis var. *subcordata* O.Berg. *Fl. Bras. [Martius]* 14 (1): 256 [15 May 1857] (Berg 1857).

Eugenia teffensis var. *truncata* O.Berg. *Fl. Bras. [Martius]* 14 (1): 256 [15 May 1857] (Berg 1857).

Stenocalyx patrisii var. *parvifolius* O.Berg. *Linnaea* 30: 699 [Mar. 1861] (Berg 1861).

Stenocalyx patrisii var. *grandifolius* O.Berg. *Linnaea* 30: 700 [Mar. 1861] (Berg 1861).

VERNACULAR NAMES. — Pa: inam-etni • Ka: kuapitano, kuwapi-tyano • Te: uwa pitāg ndi • Wp: iwa pitā, yāwīki' y • Nt: busi siriz, paawisi besi • Cr: siriz-gran-bwa, siriz-ronde • Fr: cerise de Cayenne • Br: fruta-de-jaboti, pitanga ubaia

HERBARIUM DATA (FG). — 74 collections at CAY. Sel. exs: *J.P.B. von Rohr s.n.* (type C[C10015707])

INVENTORY DATA (FG). — 115 trees in 68 plots; $F_{max} = 2.9\%$; $dbh_{inv} = 26.8$ cm





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