MorphoNet: A Solution for Managing Shared Image Data

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software... Cumulus 6.0

- proprietary (www.canto.com)
- includes XML metabridge for queries by XML applications
- ODBC compliant for alternate storage in Oracle or SQL.

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MorphoNet







Hierarchical (taxonomic) categories

| | | Information | · mprovinski | 1 | | | | | | | | |
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- users can add categories
- administrator privileges

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Asset Information

- taxonomy (required; pick.)
- determined by...
- gender (picklist)
- stage (picklist)
- copyright holder
- web access (yes/no)
- source
- type status (picklist)
- magnification
- museum depository (picklist)
- preparation method (picklist)
- voucher code #
- tagma (primary; req.; pick.)
- body part (secondary; pick.)
- structural details (picklist)
- collecting locality
- notes



Collections

• search functions for all categories (alas no global).



Collections

- images can be moved, sorted and selected
- can be stored as collections for export to users or internet



Collections

• [public] collections exported to internet (very rough right now)



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Goals of MorphoNet

- Provide 'clients' with standardized platform for image deposition that is reliable, stable and accessible.
- Provide a single reference database for morphological systematics via the internet
- Provide sufficient metadata and means of annotation for use of images

Some caveats...

- Security
 - Surrounded by multiple firewalls (VPN portal access)
 - Need automated backup
- 10 clients maximum can be logged on at any time
- SPEED! moved from 10 meg leg (huh?) to 100meg but still on a 6 year old server [expectations of 3 GB leg on internet 2 by fall 2005]
- campus wants us on a separate server.
- Canto will not make changes that we need.



'SID: A'ilthe about us -'Netscape

PIPIP

http://darwin.zoology.gla.ac.uk/~sid/aboutus.php



Search





Future considerations....

What will be the impacts of JPEG 2000?

- compression without loss of resolution (storage)
- permanent annotation of images by user (need for standardized annotation program [SEQUIN])
- can tag images for taxonomy, voucher deposition, and unique image tag number (register through GBIF?)
- images can be annotated subsequently and updated to original source
- should think of central mirrored depositories with 'pointers' from different databases (automatic incorporation of annotations)

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