Building the new culture of science?

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https://www.soest.hawaii.edu/tag-data/
Mean # of Authors

Year

Aquaculture
Biological Bulletin
Canadian Journal of Fisheries and Aquatic Sciences
Copeia
Ecological Applications
Ecological Modelling
Ecology
Fisheries
Fisheries Research
Fisheries Science
Fishery Bulletin
Hydrobiologia
Journal of Applied Ichthyology
Journal of Fish Biology
Journal of Ichthyology
Marine Ecology Progress Series
Marine Fisheries Review
Nature
Science

n=60,034
19 journals
Background

- Request from Musyl, Gunn and Hampton requested that PFRP act as “data broker”
- Meta-data and data rescue important aspects of a data repository
- Presentation at 2003 PI Meeting by Bill Michener revealed no need to re-invent any wheels
Knowledge Network for Biocomplexity (KNB)

• The KNB Project focuses on research into informatics and biocomplexity, through the development of software products and by providing education, outreach and training

• Sponsored and developed by:
  – National Science Foundation Knowledge and Distributed Intelligence Program
  – National Center for Ecological Analysis and Synthesis
  – Texas Tech University
  – Long Term Ecological Research Network
  – San Diego Supercomputer Center
Utilize KNB Toolbox

• EML – Ecological Metadata Language
  – Metadata standard

• Metacat – server for managing EML data bases
  – Control access
  – Search
  – Uploading and downloading

• Morpho – tool for assembling EML data bases
  – Import data
Ethical Use


- Public data
  - Inform and acknowledge data owner
- Restricted data
  - Need a repository account
  - Need owner’s permission
  - Offer co-authorship to data owner
- General acknowledgement of Repository
- Violation of guidelines has consequences.
# Data Holdings

**November 2005**

<table>
<thead>
<tr>
<th>Data</th>
<th>Owner</th>
<th>Number of Tags</th>
<th>Access</th>
<th>Type Of Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hawaii Mooring</td>
<td>Musyl</td>
<td>5</td>
<td>Public</td>
<td>Raw data</td>
</tr>
<tr>
<td>Bigeye Acoustic</td>
<td>Holland</td>
<td>2</td>
<td>Public</td>
<td>Raw data</td>
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<td>Horizontal Movement of Bigeye Near Hawaii</td>
<td>Sibert</td>
<td>11</td>
<td>Public</td>
<td>Processed position estimates</td>
</tr>
<tr>
<td>Vertical Movement of Bigeye Near Hawaii</td>
<td>Musyl</td>
<td>9</td>
<td>Public</td>
<td>Raw data</td>
</tr>
<tr>
<td>Coral Sea Bigeye</td>
<td>Gunn, Hampton</td>
<td>15</td>
<td>Restricted</td>
<td>Raw data</td>
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<tr>
<td>PSAT-Performance</td>
<td>Musyl</td>
<td>&gt;650</td>
<td>Restricted</td>
<td>Data on shedding and data recovery</td>
</tr>
<tr>
<td>New Caledonia Mooring</td>
<td>Leroy</td>
<td>2</td>
<td>Restricted</td>
<td>Raw data</td>
</tr>
</tbody>
</table>
Check it out:
https://www.soest.hawaii.edu/tag-data/