

## **KE EMu Documentation**





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# Contents

SECTION 1	Introduction	3
	The Search page Example Search	4
	The Results List page	11
SECTION 2	Administration of the Portal	13
	Caching of Data	13
	Customization	14
	How to disable/enable an existing Data Source	14
	How to change the display name of a Data Source	14
	How to change the Data Source color	14
	How to change the fields returned by a search, set example	;
	values, map field names	14
	How to add a new Data Source	15
	How to change the look and feel	16
	XML responses	17
	The Search page XML	17
	Results List XML	19

### SECTION 1

## Introduction

KE Software's Portal provides searching and collation of data from multiple sources simultaneously. Data Sources can be both internal and external to an institution, and include EMu, DiGIR and OAI, with the potential for many more.

The Portal has two modes of operation. At its core it is an XML query engine, comprising two customizable XML *responses*:

- 1. Query information: what data sources the Portal recognizes, what fields can be queried, etc.
- 2. Query response: what is returned in response to a query; this includes general information about the sources, a list of fields provided by the sources and a list of matching records.

This core XML component can be plugged in to another web or computer system as its data collection engine.

On the other hand, through implementation of XSL styling, the XML engine is a fully-fledged browser-based Search and Display utility for accessing multiple Data Sources. This is the default configuration of the Portal. The interface is easily modified and there is much potential to incorporate interesting and powerful features, such as record selection, linking and web mapping.

This document describes the default configuration of the Portal.

## The Search page

The following description applies to the default Portal Search page.

Keep in mind that is a simple matter to customize the Portal browser to provide alternative functionality, a different interface, or even to dispense with the interface entirely if the Portal is used as part of another system.

On the Search page it is possible to:

- Select any of the specified Data Sources.
- Set the order of importance of each selected Data Source.
- Use a mixture of AND and OR query terms.
- Limit the number of records found.
- Specify how results will be sorted.

Search The Field Museum						
The Field Museum	Data Portal					
Status	Local Database Acces	s: on				
	POTENTIAL (select i	n priority order) ACI	UAL (in priority orde	er)		
	FMNH Botany EMu					
Data Source(s)	FMNH Fish EMu					
	FMNH Invertebrates EMu					
	FMNH Insects EMu					
Records	Max records to display	y 80				
Record Distribution	<ul> <li>Get records from</li> <li>Get records from :</li> </ul>	as many sources as po sources in priority orde	ssible r			
Timeout Per Source	45 Seconds					
	Family	Genus	Species	Latitude	Longitude	
Query Terms						
blank terms ignored						
					1	
		1		1	1	
Sort By Family v in Ascending v order						
Search Fill With Example Values Clear Help						
KE EMu						

Control	Description		
Status	Indicates the status of the EMuWeb services on the EMu database server. If EMuWeb is not running, the system will not accept queries.		
Data Sources	Each searchable Data Source is listed here. Users select which Source(s) to search. The sequence in which Sources are selected determines the order in which results are displayed; this may be important depending on the number of records returned by the search (see <b>Records</b> and <b>Record Distribution</b> below).		
Records	Specifies the maximum number of records to be returned by the search.		
Record Distribution	<ul> <li>These options work in conjunction with Records and Data Sources:</li> <li>Get Records From As Many Sources As Possible The search will run against each Data Source selected by the user and will return records equally (as far as possible) from each Source up to the Max Records To Display.</li> <li>Get Records From Sources In Priority Order The search will run against the first Data Source that the user selected and will return as many records as possible; if this is less than the Max Records To Display, the second Data Source will be searched, and so on, up to the Max Records To Display.</li> </ul>		
Timeout Per Source	Specify how long (in seconds) to wait for a response from each Data Source. Searches of each Source are run simultaneously. Results will be displayed when all Sources have responded or when the timeout value has been reached.		
Query Terms	<ul> <li>Specify the terms for which to search:</li> <li>Entering values in a single row specifies a Boolean AND search (all values in that row must be found).</li> <li>Each row is a Boolean OR search.</li> </ul>		
	<ul> <li>For example: <ol> <li>In the first row, values are entered in Family and Genus.</li> <li>In the second row a value is entered in Species.</li> </ol> </li> <li>When the search is run, records that contain both values in the first row, or records that contain the value in the second row will be returned.</li> </ul>		

The following table describes each component of the Search page:

Sort	Specify a field on which ascending or descendin	Specify a field on which to sort results, and whether to sort in ascending or descending order.			
	The field and order specified here can be changed on the Results List page.				
Buttons	Search	Commence the search.			
	Fill With Example Values	Enter some typical search values appropriate to the Data Sources selected.			
	Clear	Clear any search terms specified.			
	Help	Display user help.			

### **Example Search**

In this example we search for records with:

- A Family value of Solanaceae AND a Genus of Solanum
- OR with a Genus of *Cestrum*
- 1. Select the Data Sources that you wish to search.

The order in which the Data Sources are selected determines the priority in which they are searched. In other words, if there are four Data Sources listed and you want the last one in the list to have priority in the search, select it first.

In this example we select the **FMNH Botany EMu** checkbox (and just to demonstrate the priority ordering of Data Sources, we then select **FMNH Insects EMu**, **FMNH Invertebrates EMu** and **FMNH Fish EMu**).

- 2. Specify the maximum number of records to display. The default is 80. In this case we enter 5000.
- 3. At Record Distribution, select (or accept if it is the default setting) **Get** records from sources in priority order.
- Specify a Timeout Per Source.
   The default is 45 seconds and in this case we won't change that.
- 5. In the first row of the Query Terms table, enter Solanaceae in the Family cell AND *Solanum* in the Genus cell.

In the second row, enter Cestrum in the Genus cell.

Select Genus in the Sort By drop list.
 The results will be sorted in alphabetical order by Genus.

Search The Field Museum						
The Field Museum	Data Portal					
Status	Status Local Database Access: on					
	POTENTIAL (select i	n priority order)	ACTUAL (in priority order	)		
			FMNH Botany EMu			
Data Source(s)			FMNH Insects EMu			
			FMNH Invertebrates EM	u		
	FMNH Fish EMu					
Records	Max records to display	y 5000				
Record Distribution	Record Distribution Get records from as many sources as possible					
Timeout Per Source	45 Seconds					
	Family Genus Species Latitude Longitude					
	solanaceae	solanum				
A		cestrum				
blank terms ignored	/	1				
Sort By Genus v in Ascending v order						
Search Fill With Example Values Clear Help						
KE EMu						

7. Select the **Search** button.

The Results List page displays.

Each of the selected Data Sources will be searched simultaneously up to the maximum timeout (45 seconds). The display of records is determined by:

• The priority order of the Data Sources (FMNH Botany EMu has priority over FMNH Insects EMu for instance)

• The Record Distribution option and maximum records to display setting. In this case the Search results will be listed first from **FMNH Botany EMu** up to 5000 records. If less than 5000 matching records are found in the **FMNH Botany EMu** Data Source, matching records from the next Data Source will be listed, and so on until all matches are returned up to a maximum of 5000.

In this search, records that contain both Solanaceae AND Solanum (the record must contain both words, not just one of them) OR which contain Cestrum will be located.

## The Results List page

Search Search Museum				
The Field Museum Data Portal Results List				
Search         Records         Retords           Source         Records         Status           SMMel bolaws         Statu         completed           FMMel finisects         SMU         completed           FMMel Finisects         SMU         completed           FMMel Finisects         SMU         completed           Status         completed         status           Status         completed         status           Status         status         status				
Source Description	Scientific Name	Record Source Cla	assFamily Genus Species	Type Status Latitude Longitude Im Summary
FMbH Botany EMu Cestrum tomentosum L. F., Peru, A. Sagāistegui A. 15390, NY	Cestrum tomentosum L. f.	FMNH Botany EMu	Solanaceae Cestrum tomentosum	191004(Cestrum tomentosum L. f., Peru, A. Sagālstegui A.
FMIDH Botany EMa Cestrum tomentosum L. F., Peru, A. SagAistegui A. 15398, 8M	Cestrum tomentosum L. f.	F14NH Botany EMu	Solanaceae Cestrum tomentosum	191007/Cestrum tomentosum L. E., Peru, A. SagÄistegui A.
FMDH Botany EMa Cestrum tomentosum L. f., Peru, A. SagÄistegui A. 15398, HAO	Cestrum tomentosum L. f.	FMNH Botany EMu	Solanaceae Cestrum tomentosum	191005 Cestrum tomentosum L. F., Peru, A. Sagilistegui A.
FMDH Botany EMa Cestrum tomentosum L. f., Peru, A. SagAistegui A. 15398, MO	Cestrum tomentosum L. f.	FMNH Botany EMu	Solanaceae Cestrum tomentosum	191003(Cestrum tomentosum L. f., Peru, A. SagAistegui A.
FMBH Botany EMa Cestrum wildenowii Steud., Type [status unknown], 8	Cestrum willdenowi Steud.	FMNH Botany EMu	Solanaceae Cestrum willdenowii	246693 Cestrum wildenowi Steud., Type (status unknown)
FMbH Botany EMa Cestrum giomeratum Schott, BRAZIL, A. C. V. Schott 4990, Type [status unknown], W	Cestrum glomeratum Schott	FMNH Botany EMu	Solanaceae Cestrum glomeratum	246576/Cestrum glomeratum Schott, BRAZIL, A. C. V. Scho
FMBH Botany EMu Cestrum tomentosum L. F., F. W. H. A. von Humboldt, Type (status unknown), B	Cestrum tomentosum L. f.	F1MH Botany EMu	Solanaceae Cestrum tomentosum	246681 Cestrum tomentosum L. E., F. W. H. A. von Humboli
FMbH Batany EMa Cestrum terussimum Francey, BOLIVIA, O. Buchtien 32, Type [status unknown], G	Cestrum tenussimum Francey	FMNH Botany EMu	Solanaceae Cestrum tenussimum	246678 Cestrum tenussimum Francey, BOLIVIA, O. Buchtier
FMBH Botany EMu Cestrum undulatum RuÄz Bamp; Pav., PERU, H. RuÄz L., Type (status unknown), B	Cestrum undulatum RuĂz Bamp; Pav.	FMNH Botany EMu	Solanaceae Cestrum undulatum	246683 Cestrum undulatum RuÄz Bamp; Pav., PERU, H. RuÄ
FMIRE Botany EMu Cestrum longiforum Ruliz Bamp; Pav., PERU, H. Ruliz L., Type [status unknown], 8	Cestrum longiflorum RuÄz & Pav.	F14NH Botany EMu	Solanaceae Cestrum Jongiforum	245502/Cestrum longiflorum Ruliz Bamp; Pav., PERU, H. Rul
FMBH Botany EMp Cestrum lucidum Francey, COLOMBIA, L. J. Schlim 460, Type [status unknown], G	Cestrum lucidum Francey	FMNH Botany EMu	Solanaceae Cestrum lucidum	246604 Cestrum lucidum Francey, COLOMBIA, L. J. Schlim 4
FMBH Botany EMu Cestrum Jundianum Dun., BRAZIL, Lund, Type (status unknown), G-DC	Cestrum lundianum Dun.	F14NH Botany EMu	Solanaceae Cestrum Jundianum	245605 Cestrum lundiarum Dun., BRAZIL, Lund, Type (stati
FMbH Botany EMu Cestrum luridum Dun., BRAZIL, Lund, Type [status unknown], G-DC	Cestrum luridum Dun.	FMNH Botany EMu	Solanaceae Cestrum Juridum	246606/Cestrum kiridum Dun., BRAZIL, Lund, Type [status i
FMBH Botany EMu Cestrum microcallyx Francey, COLOMBLA, J. J. Triana, Type (status unknown), G	Cestrum microcalyx Francey	FMNH Botany EMu	Solanaceae Cestrum microcalyx	245614 Cestrum microcalyx Francey, COLOMBIA, J. J. Trian
FMter Botany EMu Cestrum microphyllum Linden, COLOMBIA, J. J. Linden 722, Type [status unknown], G	Cestrum microphyllum Linden	FMNH Botany EMu	Solanaceae Cestrum microphyllum	246616/Cestrum microphyllum Linden, COLOMBIA, J. J. Linde
FMBH Botany EMu Cestrum microphyllum Linden, COLOMBIA, J. J. Linden 722, Type [status unknown], G-OC	Cestrum microphyllum Linden	FMNH Botany EMu	Solanaceae Cestrum microphyllum	246615 Cestrum microphyllum Linden, COLOMBIA, J. J. Linde
FMIH Botany EMu Cestrum moritzii Dun., COLOMBIA, J. W. K. Moritz 309, Type [status unknown], B	Cestrum moritzi Dun.	FMNH Botany EMu	Solanaceae Cestrum moritzi	246621 Cestrum moritzii Dun., COLOMBIA, J. W. K. Moritz 3
FMbH Batany EMu Cestrum nemanthum Dun., BRAZII, P. C. D. Clausen [= P. Clausen], Type [status unknown], G-DC	Cestrum nemanthum Dun.	FMNH Botany EMu	Solanaceae Cestrum nemanthum	246623/Cestrum nemanthum Dun., 8RAZIL, P. C. D. Clauser
FMBH Botany EMu Cestrum ochraceum Francey, COLOMBIA, F. C. Lehmann 900, Type (status unknown), G	Cestrum ochraceum Francey	FMNH Botany EMu	Solanaceae Cestrum ochraceum	246626 Cestrum ochraceum Francey, COLOMBIA, F. C. Lehi
Fittel Botany EMp Cestrum ochraceum var. macrophylum Francey, ECUADOP, R. Spruce 5082, Type [status unknown], G	Cestrum ochraceum var. macrophyllum Francey	F14NH Botany EMu	Solanaceae Cestrum ochraceum	246627 Cestrum ochraceum var. macrophythum Francey, EC
FMBH Botany EMp Cestrum oliganthum Dun., FRENCH GUIANA, F. M. R. Leprieur 250, Type [status unknown], G-DC	Cestrum oliganthum Dun.	FMNH Botany EMu	Solanaceae Cestrum oliganthum	246629 Cestrum oliganthum Dun., FRENCH GUEANA, F. M. R.
FMIRE Botany EMu Cestrum pariculatum Kunth, VENEZUELA, F. W. H. A. von Humboldt, Type [status unknown], 8	Cestrum paniculatum Kunth	FINH Botany EMu	Solanaceae Cestrum paniculatum	246631 Cestrum paniculatum Kunth, VENEZUELA, F. W. H. /
EMNH Botany EMIgCestrum parviflorum Dun., ECUADOR, K. T. Hartweg 1308, Type [status unknown], 8	Cestrum parviflorum Dun.	FMNH Botany EMu	Solanaceae Cestrum parviflorum	246632 Cestrum parviforum Dun., ECUADOR, K. T. Hartweg v

The Results List page displays:

1. A summary of the Data Sources searched and a count of the records returned:

Search Again		
Source	Records	Status
FMNH Botany EMu	3570	completed
FMNH Insects EMu	0	completed
FMNH Invertebrates EMu	0	completed
FMNH Fish EMu	0	completed

2. A table listing the returned records. The columns that display are specified in the XML and can easily be configured to suit an institution's requirements.

Click a column heading to change the sort order (ascending / descending) and the column on which the results are sorted.

Select the **Search Again** link above the Summary table to return to the Search page.

### SECTION 2

# Administration of the Portal

#### Caching of Data

In order to reduce the load on the Data Sources, search results are cached for up to 15 minutes from the time that the data was last used. If the Data Source changes within the cache time-frame, results will not immediately reflect the Data Source changes.

It is possible to forcibly clear the cache from a browser by using the url:

http://remus.yvr.kesoftware.com/emuwebfmnh/webservices/ lib/DataCacher.php?action=cleanCache

This part of the url:

http://remus.yvr.kesoftware.com/emuwebfmnh/

is institution specific.



Note that this will clear the cache for all users.

#### Customization

In the following examples the Portal client is FMNH and the fetcher is NMNH DiGIR.

First we need to locate and edit the fetcher:

1. Locate the NMNH DiGIR fetcher - this is located in the Portal's fetcher directory, e.g.:

cd ~/web/webservices/portal/fmnh/fetchers

- 2. An ls of this directory might return: DefaultTexxml.php FmnhBotTexxml.php FmnhFishesTexxml.php FmnhInsectTexxml.php FmnhIzTexxml.php NmnhDigir.php
- 3. Edit the NmnhDigir.php fetcher: vi NmnhDigir.php

How to disable/enable an existing Data Source

Data Sources can be disabled/enabled temporarily on the back-end.

To enable or disable a Data Source that has already been specified, locate its fetcher in the Portal's fetcher directory and change the enabled flag to true or false. In this case we enable the NMNH DiGIR fetcher:

1. Locate the line that reads:

var \$enabled = false; and change it to: var \$enabled = true;

Save the file.
 The NMNH source will be added to the list of Data Sources on the Search page.

How to change the display name of a Data Source

1. Locate and edit the following line:
 var \$sourceName = "Name to change";

How to change the Data Source color

1. Locate and edit a line similar to: var \$preferredRGB = '#ffaaaa';

How to change the fields returned by a search, set example values, map field names

 Locate lines similar to: \$this->setKnownConcept("Family","DarFamily");

```
$this->setKnownConcept("Genus","DarGenus","Acacia");
Each line that calls setKnownConcept:
```

- Adds a field.
- Specifies how to extract it from the Data Source's native list of fields.
- Specifies an example value (if any) for test queries.

The format of these lines is:

```
setKnownConcept( "Common Field Name", "Source Field", "Example
(if any)");
```

where:

"Common Field Name" is what the Portal will call the field.

"Source Field" is what the Data Source calls the field.

"Example" is an optional value for specifying a suggested value to run in test queries.



The Portal looks at all the "Common Field Names" of all enabled fetchers, and those that exist in all fetchers will be made available as search fields.

#### How to add a new Data Source

This is achieved by writing a fetcher for the Data Source and placing it in the Portal's fetcher directory. KE Software supplies components for quickly setting up fetchers for EMu, DiGIR and OAI sources. It also supplies lower level components for building fetchers for other web services; assembling these can be done either in-house or by KE Software.

For example - to add a Texxml data source to an EMu database:

- 1. Find the host name of the database (e.g. the server host might be "hal2001.kesoftware.com").
- 2. Find the host's texxml port to which we will connect (e.g. 30003).
- 3. Establish a set of fields that can be used as searchable concepts, (e.g. Family, Genus, Species).
- 4. Map these concepts to the EMu database, e.g.: Family <=> DarFamily Genus <=> DarGenus Species <=> DarSpecies

It is probably easier to copy an existing Texxml fetcher and use this as the basis for a new one:

- 1. cd ~/web/webservices/portal/fmnh/fetchers
- 2. cp DefaultTexxml.php MyShinyNewTexxml.php
- 3. Edit MyShinyNewTexxml.php using the details located above:

```
var $enabled = true;
var $hostname = "hal2001.kesoftware.com";
$this->port = 30003;
$this->setKnownConcept("Family","DarFamily");
```

```
$this->setKnownConcept("Genus","DarGenus","Acacia");
$this->setKnownConcept("Species","DarSpecies");
```

How to change the look and feel

KE Software provides a basic web browser interface for the Portal. More advanced functionality can be added though a combination of XSL, CSS and Javascript (or other web scripting tools).

The Portal returns XML in response to requests, and institutions can process this XML to generate the user interfaces they require.

Typically the default XSL stylesheets, CSS stylesheets (and any javascript) reside in:

```
~/web/webservices/portal/style
```

To customize any of these, place your files in:

```
~/web/webservices/portal/CLIENT/style
```

where:

CLIENT is your Portal name (e.g. fmnh, mnh, nmnh, mv, etc.).

To change how the query screen is generated from the Portal XML response, typically you would create a customized:

~/web/webservices/portal/CLIENT/style/portal\_queryscreen.xsl

To change how the Results List page is created you would create a customized:

~/web/webservices/portal/CLIENT/style/portal.xsl

It is possible to configure the Portal to use a stylesheet of a different name for Results Lists by editing the PortalFactory file in:

~/web/webservices/portal/CLIENT/PortalFactory.php

and adding a line to the local Portal object, e.g.:

\$defaultStylesheet = 'otherPortal.xsl';

It is also possible to use a different stylesheet by calling it with its name as a parameter. For example, for a Search page use:

```
http://HOST/emuwebCLIENT/webservices/portal.php?queryScreen=url_to
_stylesheet
```

To display a Results page with an alternative stylesheet, pass the stylesheet as an argument to the Portal when making the search request.

#### XML responses

The Search page XML

This provides information about how the Portal can be queried and lists Data Sources and fields that can be queried. For example:

```
<xml>
 <queryScreen destinationUrl='/emuwebfmnh/webservices/portal.php'
 name='The Field Museum Data Portal' statusMapAvailable=''
 backendType='fmnh' localDbAccess='on'>
    <sources>
      <source name='FmnhBotTexxml' displayName='FMNH Botany EMu'</pre>
     suggestedPriority='0' foregroundRGB='#000000'
     backgroundRGB='#999933' icon='' />
     <source name='FmnhFishesTexxml' displayName='FMNH Fish EMu'</pre>
     suggestedPriority='1' foregroundRGB='#000000'
     backgroundRGB='#E7F5F6' icon='' />
     <source name='FmnhIzTexxml'</pre>
     displayName='FMNH Invertebrates EMu' suggestedPriority='2'
     foregroundRGB='#000000' backgroundRGB='#e8cec1' icon='' />
     <source name='FmnhInsectTexxml'</pre>
     displayName='FMNH Insects EMu' suggestedPriority='3'
      foregroundRGB='#000000' backgroundRGB='#elele5' icon='' />
    </sources>
    <queryableFields>
      <field name='Family:string' displayName='Family'</pre>
      type='string'>
        <example src='FmnhBotTexxml' />
        <example src='FmnhFishesTexxml' />
        <example src='FmnhIzTexxml'>Muricidae</example>
        <example src='FmnhInsectTexxml' />
      </field>
      <field name='Genus:string' displayName='Genus' type='string'>
        <example src='FmnhBotTexxml'>Acacia</example>
        <example src='FmnhFishesTexxml' />
        <example src='FmnhIzTexxml' />
        <example src='FmnhInsectTexxml' />
      </field>
      <field name='Species:string' displayName='Species' type='string'>
        <example src='FmnhBotTexxml' />
        <example src='FmnhFishesTexxml'>gracilis</example>
        <example src='FmnhIzTexxml' />
        <example src='FmnhInsectTexxml'>cariosa</example>
      </field>
      <field name='Latitude:float' displayName='Latitude'
      type='float'>
        <example src='FmnhBotTexxml' />
        <example src='FmnhFishesTexxml' />
        <example src='FmnhIzTexxml' />
        <example src='FmnhInsectTexxml' />
      </field>
      <field name='Longitude:float' displayName='Longitude'</pre>
      type='float'>
        <example src='FmnhBotTexxml' />
        <example src='FmnhFishesTexxml' />
        <example src='FmnhIzTexxml' />
        <example src='FmnhInsectTexxml' />
```

```
</field>
</field>
</fueryableFields>
<suggestedParameters>
<maxPerSource>20</maxPerSource>
<timeoutSeconds>45</timeoutSeconds>
<displayStylesheet>/emuwebfmnh/webservices/portal/fmnh/style/portal.xsl
</displayStylesheet>
<queryStylesheet>/emuwebfmnh/webservices/portal/fmnh/style/portal_queryscre
en.xsl
</queryStylesheet>
</gueryStylesheet>
</gueryStylesh
```

#### **Results List XML**

This is returned in response to a query. It has some general information on the sources and their responses, a list of fields provided by the sources and a list of matching records. Some typical XML would be:

```
<xml>
  <mergedData>
    <statusBlock status='success'>
      <instance>Portal.8145.1196378088</instance>
      <systemName>The Field Museum Data Portal</systemName>
      <emuwebBase>emuwebfmnh</emuwebBase>
      <emuBackendType>fmnh</emuBackendType>
      <description>Set of up to 10 matching records sampling across
      sources</description>
      <sources>
        <source name='FmnhFishesTexxml' status='completed'</pre>
        sourceOrder='3' displayName='FMNH Fish EMu'
       recordsUsed='10' translatorType='texxml'
       backgroundRGB='#E7F5F6' foregroundRGB='#000000' icon='' />
      </sources>
      <groups>
        <group type='base'>description</group>
        <proup type='extended'>ScientificName</proup>
        <group type='extended'>recordSource</group>
        <proup type='extended'>Class</proup>
        <proup type='extended'>Family</proup>
        <proup type='extended'>Genus</proup>
        <group type='extended'>Species</group>
        <group type='extended'>TypeStatus</group>
        <group type='extended'>Latitude</group>
        <group type='extended'>Longitude</group>
        <group type='extended'>irn</group>
        <group type='extended'>Summary</group>
      </groups>
    </statusBlock>
    <records start='1' limit='10' count='10' sortBy='Family'</pre>
    sortOrder='ascending'>
      <record index='1' sourceName='FMNH Fish EMu'
     backgroundRGB='#E7F5F6' foregroundRGB='#000000' icon=''>
        <description>50644:Hyphessobrycon
        gracilis:54::::Characidae:226:KPS1926-36:South
       America: Argentina </ description >
        <latitude>
        </latitude>
        <longitude>
        </longitude>
        <proup name='ScientificName'>Hyphessobrycon
        gracilis</group>
        <proup name='recordSource'>FMNH Fish EMu</proup>
        <group name='Family'>Characidae</group>
        <group name='Genus'>Hyphessobrycon</group>
        <group name='Species'>gracilis</group>
        <proup name='irn'>629479</proup>
        <proup name='Summary'>50644:Hyphessobrycon
        gracilis:54::::Characidae:226:KPS1926-36:South
        America: Argentina </ group>
      </record>
      <record index='2' sourceName='FMNH Fish EMu'
```

```
backgroundRGB='#E7F5F6' foregroundRGB='#000000' icon=''>
        <description>106795:Pimelodella
        gracilis:5::::Pimelodidae:261:B96:South
       America:Bolivia</description>
        <latitude>
        </latitude>
        <longitude>
        </longitude>
        <group name='ScientificName'>Pimelodella gracilis</group>
        <group name='recordSource'>FMNH Fish EMu</group>
        <proup name='Family'>Pimelodidae</proup>
        <proup name='Genus'>Pimelodella</proup>
        <proup name='Species'>gracilis</proup>
        <group name='irn'>685922</group>
        <proup name='Summary'>106795:Pimelodella
       gracilis:5::::Pimelodidae:261:B96:South
       America:Bolivia</group>
      </record>
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  </mergedData>
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