

Informe de Progreso Técnico y Financiero

Donaciones para la Digitalización de Datos Red Temática de Especímenes



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1. Executive summary

Universidade Federal de Pernambuco (UFPE) holds an important collection of insect pollinators. It contains specimens of numerous species of bees, butterflies, hawkmoths and beetles sampled in different ecosystems in Brazil, representing the main collection of this kind in the Northeast region of the country. This institution also congregates professionals in the field of pollination biology, all of which important contributors to the reliability of the collection.

During the first semester of 2010, the activities implemented in order to reach the objectives of the Project (First Report) have been satisfactory. Specific identification is constantly conducted by taxonomists according to their specialties. However, some specimens must be sent to specialists for proper identification, a job that often demands quite a long time. As such, many pollinator specimens are identified as morphologically distinct morphospecies.

All specimens have been indexed in a personal database powered by Microsoft Access 2007®, containing the main fields of Darwin Core required by SSTN. However, difficulties were encountered during the management of the software TapirLink. Due to the fact that the professionals working on the project did not have a TapirLink training course, understanding how to properly use this software has been a big challenge.

2. Results and range of the Project

The agreement established on the contract requires 6,000 pollinator records already indexed and georeferenced, plus the digitization of 6,000 unpublished records. All specimens must be registered according with the fields of Darwin Core specified under the contract. The database needs also be accessible through the Internet using the software TapirLink with the implementation of TAPIR protocol adopted by the Species and Specimens Thematic Network (SSTN).

The number of pollinators already indexed and the number of unpublished pollinators met all requirements. The collection holds 32,229 specimen records, among which it is possible to browse through 221 species of butterflies and 1,210 species of bees. 6,738 is the number of unpublished records available for the Project, which exceeds the initial required sum.

Due to the fact that the Tapirlink training course could not be attended by the people enrolled on this project, some problems during the installation of the software and the understanding of the protocol have been encountered (the problems are specified under the section 4 of this report). For that matter, the database is not yet accessible through the Internet. Nevertheless, a copy of the personal database in Access format was made available to the IABIN organizers.

3. Applied methodology and activities carried out to reach the expected results

Before registration process on database takes place, each pollinator must have four labels containing different kinds of important information. The first label informs where and when the specimen was collected and who collected it. The second label contains the institution's name and an individual institutional code used also as an identity of the specimen on database. The third label presents information about how the specimen was collected. A pollinator can be caught in flight, in flowers, in nests or using traps. A scientific name of the plant is provided on the third label, if the insect was caught in a flower. Finally the last label contains the scientific name of the specimen, its gender and the name of who identified the species.

A mechanical activity of adding the labels for each specimen has been done for all collected insect pollinators. After that, the information of all specimens was indexed in a database using Microsoft Access 2007®. Information sometimes omitted on the labels, e.g. georeferences and detailed information of species, has been added on the database. The main fields required by Darwin Core have been filled up.

The TapirLink software has been studied through the material available on TapirLink website (see <http://wiki.tdwg.org/twiki/bin/view/TAPIR/TapirLink>).

4. Lessons learnt, problems and viable solutions

The main problem encountered during the development of the Project was the activities related to the TapirLink software. For a better understanding of the issue, here is a detailed description of how it has been done until halts in errors and incomplete activities:

- a) XAMPP 1.7.1 (containing Apache 2.2.15 e PHP 5.2.9) was installed with success;
- b) TapirLink 0.7.0 available on the TapirLink website (linked on <http://sourceforge.net/projects/digir/files/TapirLink/>) was installed with success within the XAMPP (see Images 1 and 2 in APPENDIX 1 section);
- c) The problem first came up when TapirLink did not recognize the database in Microsoft Access® format. Two Access versions (2000 and 2007) were used for testing with TapirLink, but the software only recognized the 2000 version. TapirLink seems to have some documented restrictions, but information regarding such restrictions was not found on the TDWG website. Because of that, tentative attempts were adopted until the best solution was attained, including modifications on the original structure of the database (for example, changes on characters);
- d) Through the installation process and import of the pollinator database in TapirLink, it is possible to confirm that the database is activated (see Image 3 in APPENDIX 1 section). However, TapirLink does not possess an intuitive interface for an easy searching through the database information;

e) The most difficulty surges when handling the protocol TAPIR. Information about this protocol is available on TDWG website, but it is extremely technical and mostly useful to professionals of software design/programming alone. Nevertheless, attempts were made following the instructions for this protocol. All basic operations were well executed, except for the *search* operation. The system showed an error on output model and an error on counting records (see Image 4 in APPENDIX 1 section). Answers are presented in XML-Schema format for all requests made on TapirLink, which should be pos-processed for a better comprehension;

f) In the APPENDIX 2, it is possible to read all the historical activities in TapirLink, including when and where the problem started.

Since the problem in fully meeting the agreement is a technical one, the best solution for a better result for the second phase of the project is to hire a specialist in computer programming to solve the problems with TapirLink management.

Unfortunately nobody of our work group could attend the TapirLink course offered by IABIN in the beginning of the project. Due to burocratic problems, the project was implemented only in January 2010, about two years after selection. Therefore, it was not possible to finance participation. Another problem, encountered recently, is the accessibility of the university's Internet server. Some institutional criteria must be met before access to this sever is granted, which delayed the course of the project development.

5. Funds of Compensation

FUNDS OF COMPENSATION		
<u>Institution</u> : Universidade Federal de Pernambuco - Specimens of Pollinators		
<u>Component</u> : Data content creation		
<u>Thematic Network</u> : Polinizadores		
<u>Semester</u> : July - December		
UNITS	Cost per Semester	Description
Technical Personnel	0	2 computers, 1 stereomicroscope Zeiss and 1 microscope Zeiss
Administration Personnel	0	
Equipment and supplies	\$21.000	
Physical infrastructure	0	
Documents	0	
Number of professionals in Seminars	0	
Others	0	
TOTAL	\$21.000	

6. Financial Report

For the first trimester of 2010, IABIN financed 40% (= \$ 4,000.00) of the total value on the contract. This amount was transferred by IABIN on 22nd January of 2010 (in Brazilian real is R\$7,280.00) but finally reached the Centro de Ciências Biológicas (CCB) of UFPE only in 25th April of 2010. Since then the scholarship has been paid. The acquisition of a computer is underway (three ratings), and the equipment will be paid in June. The table below contains the value of the scholarship.

1	2	3	4	5	6	7	8	9
Item No.	Nombre del rubro y descripción	Numero de referencia	Ubicación (País)	Monto original del gasto (equivalente en Dolares)	% Financiado por SG/OEA	Pagos acumulados ya reportados	Fecha de Pago	Monto a reportar en este informe
1	Scholarship		Brazil	\$2,566.00	100%	\$2,566.00	Jan 22, 2010	\$2,566.00
2								
3								
4								
							TOTAL	\$2,566.00

7. Appendix 1

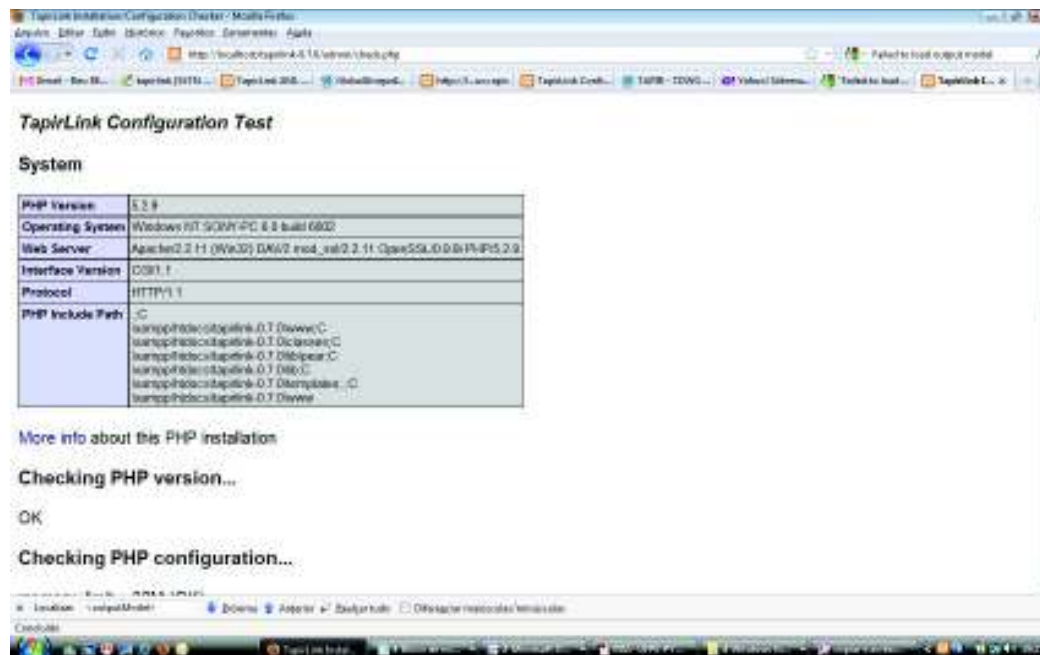


Image 1: picture showing the installation of TapirLink was successful.

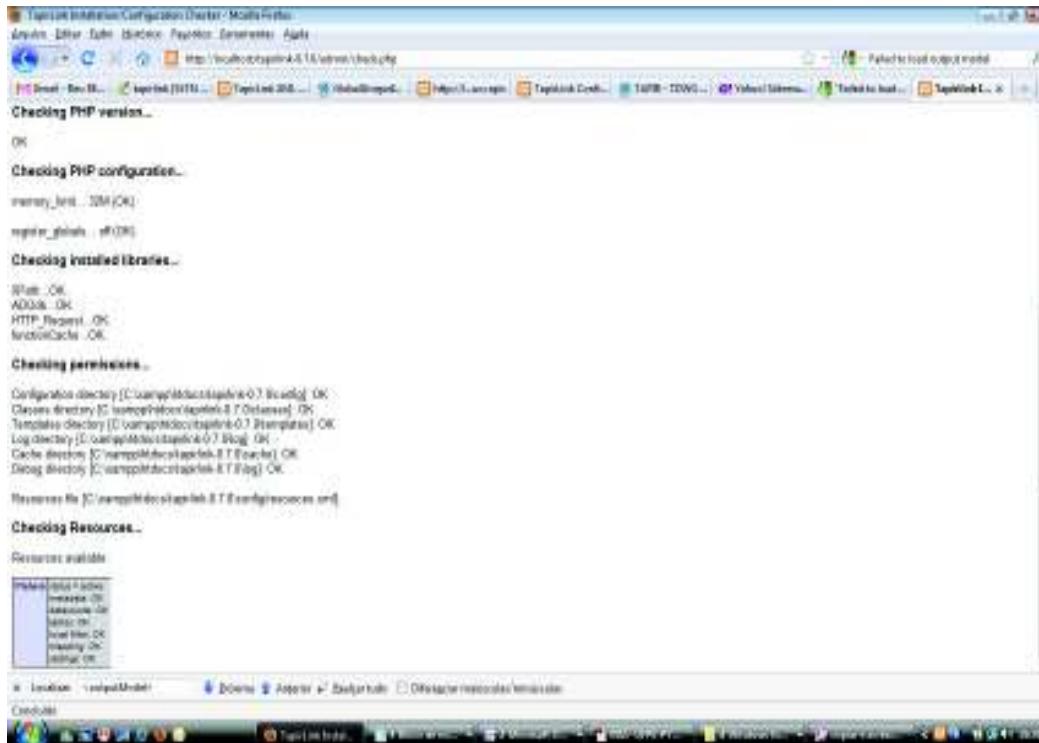


Image 2: picture showing the installation of TapirLink was successful.



Image 3: picture showing the confirmation that the database is activated.

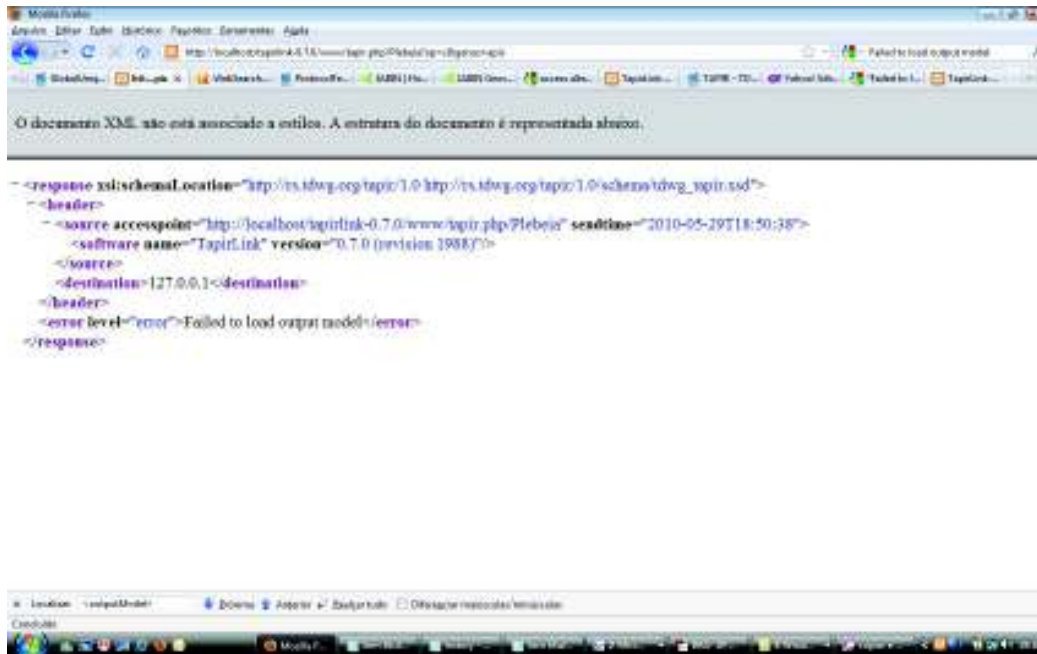


Image 4: picture showing an error during the execution of TapirLink.

8. Appendix 2

Below it is the historic use of TapirLink:

```

May 29 2010 17:41:26    127.0.0.1    [info]
    resource=Plebeia operation=ping    encoding=kvp
    logonly=false    xslt=NULL    source_ip=127.0.0.1
    source_host=SONY-PC
May 29 2010 17:41:38    127.0.0.1    [info]
    resource=Plebeia operation=metadata    encoding=kvp
    logonly=false    xslt=NULL    source_ip=127.0.0.1
    source_host=SONY-PC
May 29 2010 17:42:07    127.0.0.1    [info]
    resource=Plebeia operation=ping    encoding=kvp
    logonly=false    xslt=NULL    source_ip=127.0.0.1
    source_host=SONY-PC
May 29 2010 17:42:39    127.0.0.1    [info]
    resource=Plebeia operation=metadata    encoding=kvp
    logonly=false    xslt=NULL    source_ip=127.0.0.1
    source_host=SONY-PC
May 29 2010 17:43:08    127.0.0.1    [info]
    resource=Plebeia operation=metadata    encoding=kvp
    logonly=false    xslt=NULL    source_ip=127.0.0.1
    source_host=SONY-PC
May 29 2010 17:43:27    127.0.0.1    [error]      Resource
"Plebeia&s=apis" not found.

```

May 29 2010 17:43:41 127.0.0.1 [info]
 resource=Plebeia operation=metadata encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC

May 29 2010 17:44:56 127.0.0.1 [info]
 resource=Plebeia operation=metadata encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC

May 29 2010 17:45:04 127.0.0.1 [info]
 resource=Plebeia operation=search encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC start=0 limit=NULL returned=0
 template=NULL output_model=NULL response_structure=NULL
 partial=NULL sql=NULL filter=NULL order_by=NULL

May 29 2010 17:48:22 127.0.0.1 [info]
 resource=Plebeia operation=capabilities encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC

May 29 2010 17:48:35 127.0.0.1 [info]
 resource=Plebeia operation=metadata encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC

May 29 2010 17:48:54 127.0.0.1 [info]
 resource=Plebeia operation=capabilities encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC

May 29 2010 17:49:21 127.0.0.1 [info]
 resource=Plebeia operation=inventory encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC start=0 limit=NULL returned=0
 template=NULL concepts=NULL sql=NULL filter=NULL

May 29 2010 17:49:31 127.0.0.1 [info]
 resource=Plebeia operation=search encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC start=0 limit=NULL returned=0
 template=NULL output_model=NULL response_structure=NULL
 partial=NULL sql=NULL filter=NULL order_by=NULL

May 29 2010 17:50:13 127.0.0.1 [info]
 resource=Plebeia operation=search encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC start=0 limit=NULL returned=0
 template=NULL output_model=NULL response_structure=NULL
 partial=NULL sql=NULL filter=NULL order_by=NULL

May 29 2010 17:51:22 127.0.0.1 [info]
 resource=Plebeia operation=search encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC start=0 limit=NULL returned=0
 template=NULL output_model=NULL response_structure=NULL
 partial=NULL sql=NULL filter=NULL order_by=NULL

May 29 2010 17:51:31 127.0.0.1 [info]
 resource=Plebeia operation=search encoding=kvp


```

logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC  start=0      limit=NULL      returned=0
template=NULL      output_model=NULL response_structure=NULL
partial=NULL      sql=NULL      filter=NULL      order_by=NULL
May 29 2010 17:52:11 127.0.0.1 [info]
resource=Plebeia operation=ping encoding=kvp
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC
May 29 2010 17:53:08 127.0.0.1 [info]
resource=Plebeia operation=ping encoding=xml
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC
May 29 2010 17:53:21 127.0.0.1 [info]
resource=Plebeia operation=metadata encoding=xml
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC
May 29 2010 17:55:28 127.0.0.1 [info]
resource=Plebeia operation=search encoding=xml
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC start=0 limit=20 returned=0
template=NULL      output_model=NULL response_structure=false
partial=NULL      sql=NULL
filter=(http://rs.tdwg.org/dwc/dwcore/Genus = "Astyanax") AND
(NOT (http://rs.tdwg.org/dwc/dwcore/ScientificName IS NULL))
order_by=http://rs.tdwg.org/dwc/dwcore/ScientificName(DESC)
May 29 2010 17:56:32 127.0.0.1 [info]
resource=Plebeia operation=search encoding=xml
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC start=0 limit=20 returned=0
template=NULL      output_model=NULL response_structure=false
partial=NULL      sql=NULL
filter=(http://rs.tdwg.org/dwc/dwcore/Genus = "Astyanax") AND
(NOT (http://rs.tdwg.org/dwc/dwcore/ScientificName IS NULL))
order_by=http://rs.tdwg.org/dwc/dwcore/ScientificName(DESC)
May 29 2010 17:57:00 127.0.0.1 [info]
resource=Plebeia operation=search encoding=xml
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC start=0 limit=20 returned=0
template=NULL      output_model=NULL response_structure=false
partial=NULL      sql=NULL
filter=(http://rs.tdwg.org/dwc/dwcore/Genus = "Apis") AND (NOT
(http://rs.tdwg.org/dwc/dwcore/ScientificName IS NULL))
order_by=http://rs.tdwg.org/dwc/dwcore/ScientificName(DESC)
May 29 2010 17:57:36 127.0.0.1 [error] Failed to parse
request
May 29 2010 17:58:04 127.0.0.1 [info]
resource=Plebeia operation=search encoding=xml
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC start=0 limit=20 returned=0
template=NULL      output_model=NULL response_structure=false
partial=NULL      sql=NULL

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```

filter=http://rs.tdwg.org/dwc/dwcore/Genus = "Apis"
order_by=http://rs.tdwg.org/dwc/dwcore/ScientificName (DESC)
May 29 2010 17:58:21 127.0.0.1 [info]
resource=Plebeia operation=search encoding=xml
logonly=false xslt=NULL source_ip=127.0.0.1
source_host=SONY-PC start=0 limit=20 returned=0
template=NULL output_model=NULL response_structure=false
partial=NULL sql=NULL
filter=http://rs.tdwg.org/dwc/dwcore/Genus = "Apis"
order_by=NULL
May 29 2010 17:59:09 127.0.0.1 [info]
resource=Plebeia operation=search encoding=xml
logonly=false xslt=NULL source_ip=127.0.0.1
source_host=SONY-PC start=0 limit=20 returned=0
template=NULL output_model=NULL response_structure=false
partial=NULL sql=NULL
filter=http://rs.tdwg.org/dwc/dwcore/Genus = "Apis"
order_by=NULL
May 29 2010 17:59:20 127.0.0.1 [info]
resource=Plebeia operation=inventory encoding=xml
logonly=false xslt=NULL source_ip=127.0.0.1
source_host=SONY-PC start=0 limit=20 returned=0
template=NULL
concepts=http://rs.tdwg.org/dwc/dwcore/ScientificName sql=NULL
filter=NULL
May 29 2010 18:01:06 127.0.0.1 [info]
resource=Plebeia operation=metadata encoding=xml
logonly=false xslt=NULL source_ip=127.0.0.1
source_host=SONY-PC
May 29 2010 18:02:43 127.0.0.1 [info]
resource=Plebeia operation=search encoding=kvp
logonly=false xslt=NULL source_ip=127.0.0.1
source_host=SONY-PC start=0 limit=NULL returned=0
template=NULL output_model=NULL response_structure=NULL
partial=NULL sql=NULL filter=NULL order_by=NULL
May 29 2010 18:02:54 127.0.0.1 [info]
resource=Plebeia operation=search encoding=kvp
logonly=false xslt=NULL source_ip=127.0.0.1
source_host=SONY-PC start=0 limit=NULL returned=0
template=NULL output_model=NULL response_structure=NULL
partial=NULL sql=NULL filter=NULL order_by=NULL
May 29 2010 18:03:06 127.0.0.1 [info]
resource=Plebeia operation=search encoding=kvp
logonly=false xslt=NULL source_ip=127.0.0.1
source_host=SONY-PC start=0 limit=NULL returned=0
template=NULL output_model=NULL response_structure=NULL
partial=NULL sql=NULL filter=NULL order_by=NULL
May 29 2010 18:03:19 127.0.0.1 [info]
resource=Plebeia operation=search encoding=kvp
logonly=false xslt=NULL source_ip=127.0.0.1
source_host=SONY-PC start=0 limit=NULL returned=0

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template=NULL      output_model=NULL response_structure=NULL
partial=NULL       sql=NULL      filter=NULL order_by=NULL
May 29 2010 18:06:09 127.0.0.1 [info]
resource=Plebeia operation=search encoding=xml
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC start=0      limit=20      returned=0
template=NULL      output_model=NULL response_structure=false
partial=NULL       sql=NULL
filter=http://rs.tdwg.org/dwc/dwcore/ScientificName LIKE "A*"
order_by=http://rs.tdwg.org/dwc/dwcore/ScientificName (DESC)
May 29 2010 18:07:01 127.0.0.1 [info]
resource=Plebeia operation=search encoding=xml
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC start=0      limit=20      returned=0
template=NULL      output_model=NULL response_structure=false
partial=NULL       sql=NULL
filter=http://rs.tdwg.org/dwc/dwcore/ScientificName LIKE "a*"
order_by=http://rs.tdwg.org/dwc/dwcore/ScientificName (DESC)
May 29 2010 18:08:21 127.0.0.1 [info]
resource=Plebeia operation=ping encoding=kvp
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC
May 29 2010 18:09:22 127.0.0.1 [info]
resource=Plebeia operation=ping encoding=kvp
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC
May 29 2010 18:16:28 127.0.0.1 [info]
resource=Plebeia operation=ping encoding=kvp
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC
May 29 2010 18:17:07 127.0.0.1 [info]
resource=Plebeia operation=ping encoding=kvp
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC
May 29 2010 18:17:33 127.0.0.1 [info]
resource=Plebeia operation=ping encoding=kvp
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC
May 29 2010 18:18:28 127.0.0.1 [info]
resource=Plebeia operation=ping encoding=kvp
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC
May 29 2010 18:25:39 127.0.0.1 [info]
resource=Plebeia operation=metadata encoding=kvp
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC
May 29 2010 18:25:49 127.0.0.1 [info]
resource=Plebeia operation=ping encoding=kvp
logonly=false      xslt=NULL      source_ip=127.0.0.1
source_host=SONY-PC

```

May 29 2010 18:28:07 127.0.0.1 [info]
 resource=Plebeia operation=search encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC start=0 limit=NULL returned=0
 template=NULL output_model=NULL response_structure=NULL
 partial=NULL sql=NULL filter=A@COLECAO LIKE "1"
 order_by=NULL

May 29 2010 18:28:41 127.0.0.1 [info]
 resource=Plebeia operation=search encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC start=0 limit=NULL returned=0
 template=NULL output_model=NULL response_structure=NULL
 partial=NULL sql=NULL filter=1 LIKE order_by=NULL

May 29 2010 18:29:22 127.0.0.1 [info]
 resource=Plebeia operation=search encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC start=0 limit=NULL returned=0
 template=NULL output_model=NULL response_structure=NULL
 partial=NULL sql=NULL filter=1 LIKE
 order_by=A@COLECAO(ASC)

May 29 2010 18:29:34 127.0.0.1 [info]
 resource=Plebeia operation=search encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC start=0 limit=NULL returned=0
 template=NULL output_model=NULL response_structure=NULL
 partial=NULL sql=NULL filter=NULL
 order_by=A@COLECAO(ASC)

May 29 2010 18:30:02 127.0.0.1 [info]
 resource=Plebeia operation=search encoding=xml
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC start=0 limit=20 returned=0
 template=NULL output_model=NULL response_structure=false
 partial=NULL sql=NULL
 filter=(http://rs.tdwg.org/dwc/dwcore/Genus = "Astyanax") AND
 (NOT (http://rs.tdwg.org/dwc/dwcore/ScientificName IS NULL))
 order_by=http://rs.tdwg.org/dwc/dwcore/ScientificName(DESC)

May 29 2010 18:32:41 127.0.0.1 [info]
 resource=Plebeia operation=ping encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC

May 29 2010 18:37:18 127.0.0.1 [info]
 resource=Plebeia operation=search encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC start=0 limit=NULL returned=0
 template=NULL output_model=NULL response_structure=NULL
 partial=NULL sql=NULL filter=NULL order_by=NULL

May 29 2010 18:37:37 127.0.0.1 [info]
 resource=Plebeia operation=search encoding=kvp
 logonly=false xslt=NULL source_ip=127.0.0.1
 source_host=SONY-PC start=0 limit=NULL returned=0

```

        template=NULL      output_model=NULL response_structure=NULL
        partial=NULL       sql=NULL      filter=NULL order_by=NULL
May 29 2010 18:40:26      127.0.0.1  [info]
        resource=Plebeia  operation=search encoding=kvp
        logonly=false     xslt=NULL    source_ip=127.0.0.1
        source_host=SONY-PC start=0      limit=NULL  returned=0
        template=NULL     output_model=NULL response_structure=NULL
        partial=NULL       sql=NULL      filter=NULL order_by=NULL
May 29 2010 18:43:12      127.0.0.1  [info]
        resource=Plebeia  operation=ping  encoding=kvp
        logonly=false     xslt=NULL    source_ip=127.0.0.1
        source_host=SONY-PC
May 29 2010 18:43:45      127.0.0.1  [info]
        resource=Plebeia  operation=inventory encoding=xml
        logonly=false     xslt=NULL    source_ip=127.0.0.1
        source_host=SONY-PC start=0      limit=20    returned=0
        template=NULL
        concepts=http://rs.tdwg.org/dwc/dwcore/ScientificName sql=NULL
        filter=NULL
May 29 2010 18:48:49      127.0.0.1  [error]      Failed to parse
request
May 29 2010 18:50:38      127.0.0.1  [info]
        resource=Plebeia  operation=search encoding=kvp
        logonly=false     xslt=NULL    source_ip=127.0.0.1
        source_host=SONY-PC start=0      limit=NULL  returned=0
        template=NULL     output_model=NULL response_structure=NULL
        partial=NULL       sql=NULL      filter=NULL order_by=NULL
May 29 2010 18:55:52      127.0.0.1  [info]
        resource=Plebeia  operation=ping  encoding=kvp
        logonly=false     xslt=NULL    source_ip=127.0.0.1
        source_host=SONY-PC
May 29 2010 19:09:07      127.0.0.1  [info]
        resource=Plebeia  operation=ping  encoding=kvp
        logonly=false     xslt=NULL    source_ip=127.0.0.1
        source_host=SONY-PC

```