iDigBio MISC Data Element Catalog
(Phase 1, V0, rev. 15 December 2012)

Introduction

iDigBio is committed to ingesting all data provided by its contributors. Based on input from the Minimum Information Standards for Scientific Collections/Authority Files Working Group, TCN member institutions, developers of existing collections database schemas, iDigBio staff, and others in the collections community, outlined below are data elements iDigBio might reasonably be called upon to ingest and basic guidelines for how these data might be submitted. Included are data element concept tables for: Organization, Collection Object, Collecting Event, Geography, Geology, Media, and Person. These concept tables constitute a subset of those shown in the iDigBio data model (Figure 1). Future editions of this document will incorporate additions and revisions from the broader collections community as well as a broader list of concept tables represented in the data model. It should be noted that the tables presented in this document are condensed summaries of larger working documents and include only selected terms from these documents. To review the complete and regularly edited working documents, please visit our wiki: https://www.idigbio.org/wiki/index.php/MISC/Authority-File-Working-Group.

It is also important to note that this document does not represent an attempt to establish a community-wide standard for minimum information for scientific collections. Nor does it attempt to replace existing standards. Rather, it is intended as a conceptualization for guiding iDigBio's data ingestion.

The intent is to reflect common practice. Hence, the data elements presented in the series of concept tables (described in Appendix 1) reflect current standards (e.g. Darwin Core, Dublin Core, Audubon Core, Friend of a Friend) or widely used biodiversity database schemas (e.g. Specify, Symbiota, EMu, Arthropod Easy Capture). A diagram of the complete underlying data model that illustrates these concepts and their relationships is included as Figure 1.

Each concept table includes an exhaustive list of data elements, along with each element's associated Darwin Core or other standards-based equivalent (where applicable), iDigBio definition, and the label iDigBio will associate with the element in software interfaces. Each table also denotes three categories of elements related to successful ingestion, those that are 1) required, 2) highly desired, or 3) complementary.

Required Elements
Elements required by iDigBio for successful submission are highlighted in yellow or pink. Those in pink denote a closely related set of fields, at least one of which must be provided Records lacking valid values for these fields will not be accepted.

Each record submitted to iDigBio must contain a persistent Globally Unique Identifier (GUID) that is also maintained in the provider's database. GUIDs allow providers to submit separate sets of related records, linked by GUID values. They also allow iDigBio to a) maintain versioning of records across multiple updates, b) ensure persistent recognition of records across multiple databases and aggregators, and c) transmit record-related data (e.g. annotations) back to

providers. GUIDs may be in one of several formats, including a UUID, LSID, or URI. A discussion of unique identifiers and a recommendation for generating URIs are available on the iDigBio Documentation Page.

The few other required elements that appear sporadically throughout the concept tables are designed to facilitate searching or ensure a complete data record fit for scientific use.

Highly Desired Elements
iDigBio is committed to serving data well suited for scientific use. These highly desired data elements are highlighted in green and denote elements that are particularly important to the scientific enterprise, but that might not be universally present in or applicable to all collections databases. Providers with databases that incorporate these elements should include them with data submissions.
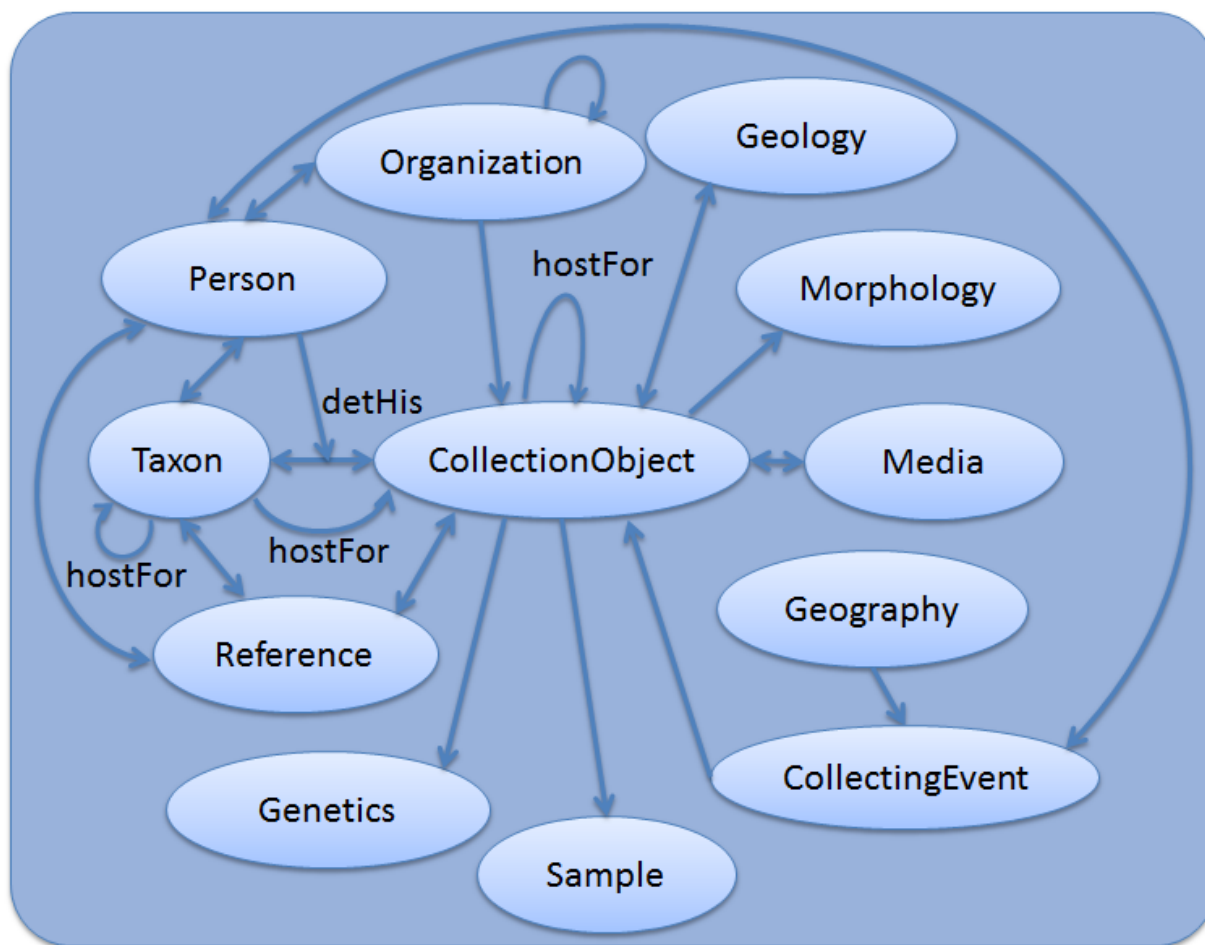

Figure 1: Data Model

Complementary Elements
No data element that complements a collection object record is unimportant. Hence, the concept tables include numerous unmarked additional elements, all of which are important, often present in collections databases, and can be submitted to iDigBio. iDigBio anticipates that the list of

complementary elements will vary by institution and grow over time, and it is prepared to accommodate additional elements as requested.

Relationships and Verbatim Data

Records may be submitted in conjunction with or in the absence of related records. For example, Collection Object records may be submitted in the absence of Taxon Tree records, in which case the VertabimScientificName element should be populated with a string version of the scientific name that represents the currently determined name associated with the Collection Object. Alternatively, if related taxonomic tree records are submitted in conjunction with Collection Object records, TaxonGUID would contain a GUID that points to a taxon record containing the associated name. Collection Object TaxonGUID values may also point to a Globally Unique Identifier provided by a recognized names aggregator, such as ITIS, IPNI, TNRS, UBIO, Catalogue of Life, etc.. Similar scenarios apply to other elements and concepts. Since all concepts bear a relationship to Collection Object, any set of related records should be linked to the corresponding Collection Records by a GUID.

Appendix 1: Definitions of Concept Tables
- *Collection Object:* represents a physical specimen or specimen lot uniquely identified and maintained in a biological or paleontological collection. Examples include: dried specimens on sheets or in packets or folders, pinned specimens in trays or drawers, skins and skulls in trays or drawers, fluid-preserved specimens in jars or bottles, slide-mounted specimens, and paleo objects in trays or boxes. The majority of information about collection objects is captured through relationships with other concepts. Examples: a 2-D view of a collection object is captured in a media object, a collection object is determined to be representative of a certain taxon by an expert, a collection object is collected during a collecting event at a location with certain geography and geology by a group of people, a collection object is a host for or contains other collection objects, or a collection object has a series of morphological characteristics.
- *Media:* represents a multimedia resource (binary object) that captures the collection object or a group of collection objects as a 2-D or 3-D image, a video or audio recording, or similar. Most media properties are related to the characteristics of the resource (e.g., quality, format, creation date) or description of the resource (e.g., caption, description, type, creator, attribution, view). Among the most important properties is the resolvable URL to access the binary object. Strategies for generating media GUIDs include (a) the use of the collection object GUID with a slight modification of the prefix (assuming there is only a single image per collection object), (b) the use of a prefix and the collection object identification, and (c) generation of a UUID from the contents of the binary object. Media information is mainly related to a collection object or a set of collection objects, but could also be related to taxonomic names, geography, or morphological characteristics.
- *CollectingEvent*: represents when, where, by whom, and how a collection object was collected, with the "where" being represented by an indirect relationship to a locality and its higher geography, the 'by whom" being an indirect relationship to a person. For non-

fossil collection objects, the "when" represents the time or time period at or during which the collection object was collected. For fossils, the geology concept contains information about the time period during which the collection object lived.

- *Geography*: represents where the collection object was collected, either through a direct relation to the collection or indirectly through a collecting event.
- *Geology:* represents, for fossil collection objects, when the collection object lived.
- *Person:* represents a person in one or more roles: collector, taxonomist, collection manager, curator, data enterer, etc.
- *Organization:* represents the physical collection, department, museum, and institution that owns the collection object or the rights to distribute information about the collection object.

Organization Concept Terms					
iDigBio	Standard(s)	Definition	References	User Interface Label	Examples
OrganizationGUID	dwc:collectionID dwc:institutionID dc:identifier dcterms:identifier	GUID for organizations at all levels of granularity that have a correspondence with biological collections are managed. (This element will be generated by iDigBio, as an UUID, and may be superseded by an internationally recognized collection GUID registry, should a community-suported controlling authority become institutionalized.)	http://rs.tdwg.org/dwc/terms/collectionID http://rs.tdwg.org/dwc/terms/institutionID http://purl.org/dc/elements/1.1/identifier http://purl.org/dc/terms/identifier	Organization GUID	Initially "31dc1041-dbd3-44a4-9cbc-cd5fc5f53c76", potentially examples that appear in CollectionAlternativeGUID.

OrganizationName	dc:contributor	Organization's official name.	http://purl.org/dc/elements/1.1/contributor	Organization	"Florida State University R. K. Godfrey Herbarium", "Florida State University", "Carnegie Museum of Natural History - Ichthyology","Field Museum of Natural History - Vertebrate Paleontology", "Florida State Collection of Arthropods", " Vascular plant collection of the University of Florida Herbarium (FLAS)", "Bryophyte and lichen collection of the University of Florida Herbarium (FLAS)", "University of Florida", "Birds of the Sahel", "Neotropical Vascular Plants"
OrganizationAlternativeGUID		Alternative GUIDs given by other authorities (e.g., LSID by BCI) to indicate a particular organization.		Alternative GUID	"http://hol.osu.edu/inst-full.html?id=14","http://www.biorepositories.org/institution/view/573" (the AMNH collection in USA),"http://www.amnh.org/" (AMNH in USA),"http://sweetgum.nybg.org/ih/herbarium.php?irn=124794" (collection in Iceland with code AMNH), "urn:lsid:biocol.org:col:34859" (University of Florida Florida Museum of Natural History - Herpetology)
OrganizationRank		Indicates the rank of the organization.		Organization Level	"institution", "museum", "department", "discipline", "collection", "subcollection"

PhysicalCollection		Indicates if this is a physical collection.		Physical Collection	"yes","no"
CollectionDiscipline		Indicates the discipline of collection. This would be more beneficial only if some controlled vocabulary can be created.		Collection Discipline	"botany", "ichthyology", "herpetology", "paleontology", "ornithology", "mammamology", "entomology", "acarology", "arachnology", "paleobotany", "genetic"
OrganizationCode	dwc:institutionCode dwc:collectionCode dwc:ownerInstitutionCode	A not necessarily unique alpha-numeric code historically assigned to an organization (collection, department, institution) providing data to iDigBio.	http://rs.tdwg.org/dwc/terms/institutionCode http://rs.tdwg.org/dwc/terms/collectionCode http://rs.tdwg.org/dwc/terms/ownerInstitutionCode	Organization Code	"FSÜ", "FLAS", "Mammal", "Fish", "UF", "FLMNH", "AMNH", "FSCA", "KUMIP", "MVZ", "FMNH", "AKN-CLO", "UCMP", "HUH", "ITIS", "iPlant", "NPS", "APN", "InBio", "uBio"
Description		Free form description of the organization.		Organization Description	
CollectionDemise		When the collection was destroyed.		Collection Destroyed Date	"1990"
LocationAddress		Street address of organization location.		Street Address	
LocationAddressCity		City of organization location.		City Address	"Tallahasee"
LocationAddressState		State of organization location.		State Address	"FL","KS"
LocationAddressZipcode		Zipcode of organization location.		Postal code/zipcode	
LocationAddressCountry		Country of organization location.		Country Address	"U.S.A."

PostalAddress		Address of organization for postal correspondence.		Postal Street Address	
PostalAddressCity		City of organization for postal correspondence.		Postal City Address	"Tallahasee"
PostalAddressState		State of organization for postal correspondence.		Postal State Address	"FL","KS"
PostalAddressZipcode		Zipcode of organization for postal correspondence.		Postal code/zipcode	
PostalAddressCountry		Country of organization for postal correspondence.		Postal Country Address	"U.S.A."
LocationGML		Location of the physical collection using geographical coordinates formatted in GML.		Location GML	
PastLocations		Information about the collection's whereabouts before the current location.		Past Locations	
Phone		Phone number to contact a particular collection.		Contact Phone Number	"+1 (555) 555-1234"
PhoneType		Phone number type to contact a particular collection.			
PhonePurpose		Phone number purpose.			"paleo","visit schedule","wood"
WebAddress		Website for accessing information about the physical collection.		Website	"http://www.bio.fsu.edu/herbarium/", "http://www.flmnh.ufl.edu/"

CollectionCreatedDate		When the collection was initially established.		Date Collection Established	"1879"
OrganizationRemarks		Remarks about the organization's information (not private). Consultation with MISC about the possibility of creating new terms to accommodate the information being captured in this term is encouraged.		Organization Remarks	"KU fossil invertebrates"
Specialty		Description of the specialty of the collection/organization that cannot be automatically derived from the data, and is more granular than discipline.		Specialty	
GUIDPrefix		The prefix(es) registered with iDigBio. Entitles the organization to generate GUIDs for all other data concepts that use this prefix.		GUID prefix(es)	"ids.amnh.org/AMNH_PBI/", "ids.amnh.org/UCR_ENT/", "urn:catalog:UF:Fish:", "urn:lsid:biocol.org:", "ids.valdosta.edu/vsc/co/", "ids.valdosta.edu/vsc/tx/"
Relationships to Other Concepts					
HigherOrganizationGUID		Relates to a higher level organization (collection, department, institution) that comprises of the collection.		Parent Organization GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"

		(Organization concept).			
CollectionObjectGUID		Relates to a physical collection object as its holder (CollectionObject concept).		Collection Object GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
OrganizationPrincipalGUID		Relates to a person responsible for the organization (Person concept).		Organization Principal	"3c1dc496-e5c6-4849-b616-cada2896190d"
OrganizationPrincipalRole		Indicates the type of responsibility (role) of the principal person.		Organization Principal Role	"director", "curator", "collection manager", "technician"
Terms Derived from Other Data and Relationships					
TaxonomicCoverage		Aggregates all the taxonomic information for the organization, specifying the most specific rank that covers all collection objects in the collection.		Taxonomic Coverage	"Quercus", "Sphagnum", "Grimmia", "Protozoa", "Plantae", "Crinoidea", "Chlorophyceae"
GeographicalCoverage		Aggregates all the georeferenced information for the organization, creating a bounding box or polygon.		Geographical Coverage	"Florida", "North America"
CollectionObjectCount		Total number of collection objects in the organization.		Collection Count	"1,234,567"
Terms Common to All Concepts					
ProviderCreatedByGUID		Relates this record to the original author of the record according to		Creator GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"

		the provider (Person concept).			
ProviderCreatedTimestamp		Date and time when the record was originally created on the provider data management system.		Created Date/Time	"2012-08-15T00:14:17.880Z"
ProviderModifiedByGUID	dcterms:modified	Relates this record to the original author of the record modification according to the provider (Person concept).		Modified by GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
ProviderModifiedTimestamp		Date and time when the record was last modified on the provider data management system.	http://purl.org/dc/terms/modified	Modified Date/Time	"2012-08-15T00:14:17.880Z"
InformationWithheld	dwc:informationWithheld	Additional information that exists, but that has not been shared in the given record.	http://rs.tdwg.org/dwc/terms/informationWithheld	Information Withheld	"location information not given for endangered species", "collector identities withheld", "ask about tissue samples"
AttributionLogoURL	ac:attributionLogoURL	A URL providing access to a logo that symbolizes the attributed party (source). Implied from the collection profile when not explicitly provided.	http://rs.tdwg.org/ac/terms/attributionLogoURL	Attribution URL	"http://www.flmnh.ufl.edu/packages/flmnh_theme/themes/flmnh/css/images/xflmnh_logo.png.pagespeed.ic.TBE38Gm2Hy.png"

Rights	dc:rights	Information about rights held in and over all data resources that are part of this collection. A full-text, readable copyright statement, as required by the national legislation of the copyright holder. On collections, this applies to all contained objects, unless the object itself has a different statement.Thus, implied from the collection profile when not explicitly provided.	http://purl.org/dc/terms/rights	Copyright Statement	"CC-BY-SA XY 2008, some rights reserved", "CC-BY Museum X, University Y", "Public Domain"
RightsOwner	dcterms:rightsHolder xmpRights:Owner cc:attributionName	Name(s) of the owners of the copyright; a "many" field.	http://purl.org/dc/terms/rightsHolder http://ns.adobe.com/xap/1.0/rights/Owner http://creativecommons.org/ns#attributionName	Copyright Owner	"John Doe", "Acme Inc.", "Biopix: JC Schou", "1998 California Academy of Sciences"
RightsLicense	xmpRights:UsageTerms	The license statement defining how resources may be used.	http://ns.adobe.com/xap/1.0/rights/UsageTerms	License Terms	"Public Domain","CC BY","CC BY-SA","CC BY-NC","CC BY-NC-SA"

RightsLicenseStatementUrl	xmpRights:WebStatement	A URL defining or further elaborating on the license statement (e. g., a web page explaining the precise terms of use). Must be consistent with "RightsLicense".	http://ns.adobe.com/xap/1.0/rights/WebStatement http://creativecommons.org/ns#License	License URL	"http://creativecommons.org/publicdomain/zero/1.0/","http://creativecommons.org/licenses/by/3.0/","http://creativecommons.org/licenses/by-sa/3.0/","http://creativecommons.org/licenses/by-nc/3.0/","http://creativecommons.org/licenses/by-nc-sa/3.0/"
RightsLicenseLogoUrl	ac:licenseLogoURL	A URL providing access to a logo that symbolizes the License. Must be consistent with "RightsLicense".	http://rs.tdwg.org/ac/terms/licenseLogoURL	License Logo URL	"http://mirrors.creativecommons.org/presskit/buttons/80x15/png/publicdomain.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/cc-zero.png", "http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-sa.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-nc.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-nc-sa.png"
Terms Common to All Concepts and Automatically Entered by iDigBio					
uuid	dc:identifier dcterms:identifier	Unique identifier assigned to any new record into the system by iDigBio (iDigBio GUID).	http://purl.org/dc/elements/1.1/identifier http://purl.org/dc/terms/identifier	iDigBio GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
etag		Version given to the record		iDigBio Version	380eca1760b662df022d5ff4acb0302889015a9"e"
iDigBioProvidedByGUID		Relates this record to the authenticated and authorized user (Person Concept) providing the new or modified data to		iDigBio Provided by GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"

		iDigBio.			
dateModified	dcterms:modified	Date and time when the record was created or modified on iDigBio.	http://purl.org/dc/terms/modified	iDigBio Provided Timestamp	"2012-08-15T00:14:17.880Z"
deleted		Deleted flag; indicates that the record has been removed by the provider. iDigBio will keep the information and not return in searches, unless explicitly requested.		iDigBio Deleted	"true","false"

Collection Object Concept Terms					
iDigBio	**Standard(s)**	**Definition**	**References**	**User Interface Label**	**Examples**
CollectionObjectGUID	dwc:Occurrence:occurrenceID dwc:Occurrence:individualID dc:identifier dcterms:identifier bison:id	GUID for a specific physical specimen(s) (collection object) given by the originator/source provider. Contributors are encouraged to use an identifier created at the source to avoid duplication of records as data is shared with aggregators. Aggregators generating GUIDs on behalf of a source is expected to ensure the source is not providing the same data through other channels. The GUID should not change when a specimen is moved/donated/gifted to another collection.	http://rs.tdwg.org/dwc/terms/occurrenceID http://rs.tdwg.org/dwc/terms/individualID http://purl.org/dc/elements/1.1/identifier http://purl.org/dc/terms/identifier https://www.idigbio.org/content/idigbio-guid-statement Similar to: Bison:id (not globally unique)	Collection Object GUID	"http://sweetgum.nybg.org/vh/specimen.php?irn=519203","urn:lsid:nhm.ku.edu:Herps:32","urn:catalog:FMNH:Mammal:145732","00007445-9de8-494c-aaee-9b878ff44aae", "ids.valdosta.edu/vsc/co/VSC0001026"
BarcodeValue		Machine readable alpha-numeric identifiers given to the collection object. Usually unique within a collection.		Barcode	"MSC-B-0000001", "USMS0000012038", "00063638"
CatalogNumber	dwc:Occurrence:catalogNumber	Alpha-numerical identifier assigned by the institution given to a collection	http://rs.tdwg.org/dwc/terms/catalogNumber	Catalog Number	"000311738", "CANM 100348",

		object (not in bulk form).			
AccessionID		Alpha-numerical identifier assigned by the institution given to the transaction of one or more collection objects as they are acquired by a collection (bulk identification).		Accession ID	"NY NYBG 560742"
CollectionNumber	dwc:Occurrence:recordNumber	Collector's number, alpha-numerical identifier given by the collector to the collection object in the field and which is likely to have been written in associated field notes. The CollectionNumber isn't the same as the AccessionID, which is usually only applied once the specimen gets accessioned into a collection.	http://rs.tdwg.org/dwc/terms/recordNumber	Collector's / Field Number	"14640", "13629C", "B-60", "1203 P.P."
OtherIdentifier	dwc:Occurrence:otherCatalogNumbers	Previous or alternate fully qualified catalog numbers or other human-used identifiers for the same Occurrence, whether in the current or any other data set or collection.	http://rs.tdwg.org/dwc/terms/otherCatalogNumbers	Other Numbers	
DwcTripleInstitutionCode		Code of an institution, provided		DwC Triple Institution	"FMNH"

		to GBIF for the purposes of creating an identifier for the specimen object.			
DwcTripleCollectionCode		Code of a collection, provided to GBIF for the purposes of creating an identifier for the specimen object.		DwC Triple Collection	"Mammal"
DwcTripleCatalogNumber		Catalogue number, provided to GBIF for the purposes of creating an identifier for the specimen object.		DwC Triple Catalog Number	"145732"
CollectionObjectExtent		Controlled vocabulary for the extent of collection object (part of an individual, individual organism, lot of individuals). Some of the objects in this hierarchy may disappear over time, but the record should remain.		Collection Object Extent	multispecieslot, "singlespecieslot", "individual", "individualpart"
Disposition	dwc:Occurrence:disposition	Indicates the state of the specimen: if the specimen has been lost, destroyed, on loan or deaccessioned.		Disposition	"lost","deaccessioned","destroyed","loaned", "in collection", "missing", "voucher elsewhere", "duplicates elsewhere"
Preparation	dwc:Occurrence:preparation	How the specimen has been prepared or presented.	http://rs.tdwg.org/dwc/terms/preparations	Preparation Type	"pin", "slide", "drawer", "jar", "skull", "skin", "skeleton", "cone", "fruit", "dried specimen", "tissue", "whole animal (ETOH); tissue (EDTA)", "fossil", "cast", "dna extract", etc.

Preservative		Preservative in which the specimen is stored or has been treated, and of key importance for guessing whether this specimen is useful for molecular genetics or not.		Preservative	"95% ethanol", "formalin", "arsenic-treated"
VerbatimCollectionDateInterval	dwc:Event:verbatimEventDate	Verbatim date and time when the object was collected, exactly as reported by the collector in specimen label or field book.		Verbatim Date Collected	"Fall 1977"
CatalogedDate		Date the specimen was catalogued.		Date Cataloged	"1980-07-21", ''2012-08-23T04:11Z"
VerbatimCatalogedDate		Verbatim date the specimen was catalogued.		Date Cataloged on Label	
VerbatimScientificName		Scientific name as appears in the label of the collection object. May contain authors, abbreviated authors, etc. For lots or sub-lots, you may have multiple scientific names.		Scientific Name on Label	"Coleoptera" (order), "Vespertilionidae" (family), "Manis" (genus), "Ctenomys sociabilis" (genus + specificEpithet), "Ambystoma tigrinum diaboli" (genus + specificEpithet + infraspecificEpithet), "Roptrocerus typographi (Györfi, 1952)" (genus + specificEpithet + scientificNameAuthorship), "Quercus agrifolia var. oxyadenia (Torr.) J.T. Howell" (genus + specificEpithet + taxonRank + infraspecificEpithet + scientificNameAuthorship).

VerbatimCollectors	dwc:Occurrence:recordedBy	A list (concatenated and separated) of names of people, groups, or organizations responsible for collecting the specimen, as it appears in the label of the collection object. The primary collector, especially one who applies a personal identifier (CollectionNumber), should be listed first.	http://rs.tdwg.org/dwc/terms/recordedBy	Collector(s) on Label	"Oliver P. Pearson; Anita K. Pearson" where the value in CollectionNumber "OPP 7101" corresponds to the number for the specimen in the field catalog (collector number) of Oliver P. Pearson.
VerbatimCoordinates	dwc:Location:verbatimCoordinates	The verbatim original spatial coordinates of the Location, as it appears in the label of the collection object. The coordinate ellipsoid, geodeticDatum, or full Spatial Reference System (SRS) for these coordinates should be stored in verbatimSRS and the coordinate system should be stored in verbatimCoordinateSystem.	http://rs.tdwg.org/dwc/terms/verbatimCoordinates	Verbatim Coordinates	"41 05 54S 121 05 34W", "17T 630000 4833400"
VerbatimCoordinateSystem	dwc:Location:verbatimCoordinateSystem	The spatial coordinate system for the verbatimCoordinates of the Location.	http://rs.tdwg.org/dwc/terms/verbatimCoordinateSystem	Verbatim Coordinates Representation	"decimal degrees", "degrees decimal minutes", "degrees minutes seconds", "UTM"

VerbatimSRS	dwc:Location:verbatimSRS	The ellipsoid, geodetic datum, or spatial reference system (SRS) upon which coordinates given in verbatimCoordinates are based.	http://rs.tdwg.org/dwc/terms/verbatimSRS	Verbatim Coordinate SRS	"EPSG:4326", "WGS84", "NAD27", "Campo Inchauspe", "European 1950", "Clarke 1866", "unknown"
VerbatimLocalityor	dwc:Location:verbatimLocality	The most precise description of location where the collection object was collected, as it appears in the label of the object.	http://rs.tdwg.org/dwc/terms/verbatimLocality	Verbatim Locality	"25 km NNE Bariloche por R. Nac. 237", "Dead Horse Creek ca. 10 miles west of Marathon, northeast shore of Lake Superior.", "Dryden ca. 10 miles east of.", "Raleigh 40 miles E. of Dryden on Rte 17"
CollectionObjectRemarks	dwc:Occurrence:occurrenceRemarks	Comments or notes about the collection object. Consultation with MISC about the possibility of creating new terms to accommodate the information being captured in this term is encouraged.	http://rs.tdwg.org/dwc/terms/occurrenceRemarks	Collection Object Remarks	"Silicified; Not available for loan. Strickland unfinished PhD Collection."
IndividualCount	dwc:Occurrence:individualCount	(Estimated) number of specimens if CollectionObjectExtent is a lot/container (jar, slide, box, pin, block of rock with fossils).	http://rs.tdwg.org/dwc/terms/individualCount	Individual Count	"2","10","35"
Sex	dwc:Occurrence:sex	The sex of the specimen if CollectionObjectExtent is an individual. For lots, this term may contain statistical values.	http://rs.tdwg.org/dwc/terms/sex	Sex	"male","female","hermaphrodite","8 males, 4 females"

LifeStage	dwc:Occurrence:lifeStage	The age class or life stage of the specimen if CollectionObjectExtent is an individual. For lots, this term may contain statistical values.	http://rs.tdwg.org/dwc/terms/lifeStage	Life Stage	"juvenile", "adult", "egg", "eft", "adult", "2 adults 4 juveniles"
ReproductiveCondition	dwc:Occurrence:reproductiveCondition	The reproductive condition of the specimen if CollectionObjectExtent is an individual. For lots, this term may contain statistical values.	http://rs.tdwg.org/dwc/terms/reproductiveCondition	Reproductive Condition	"seed", "bud", "flower", "non-reproductive", "pregnant", "in bloom", "fruit-bearing"
Behavior	dwc:Occurrence:behavior	Description of the behavior shown by the specimen at the time of collection if CollectionObjectExtent is an individual. For lots, this term may contain statistical values.	http://rs.tdwg.org/dwc/terms/behavior	Behavior	"roosting","foraging","running"
UncategorizedLabelData		Un-parsed data from collection labels.		Uncatoegorized Label Data	"vertebra & terminal", "M1", "LM3"
FundingSource		Funding source(s) related to this collection object. Multiple funding sources can be provided as a "many" field, with each funding source linked to a particular purpose.		Funding source(s)	"PBI-12345","BRC-12345"
FundingPurpose		Funding purpose (specimen		Funding purpose	"collecting", "curation", "imaging", "databasing", "genetics", "taxonomy"

		collection, initial digital data capture, metadata augmentation, personnel, etc.)			
Relationships to Other Concepts Given By the Provider					
TaxonGUID		Relates this collection object with a taxonomic name (Taxon concept) as a determination made by a person.		Determination Taxon GUID	"3c1dc496-e5c6-4849-b616-cada2896190d", "ids.valdosta.edu/vsc/tx/825"
TaxonDeterminationByGUID	dwc:Identification:identifiedBy	Relates this collection object with a person that made the taxonomic determination. (Person concept)	http://rs.tdwg.org/dwc/terms/identifiedBy	Determination by GUID	"3c1dc496-e5c6-4849-b616-cada2896190d", "ids.valdosta.edu/vsc/ps/4995"
TaxonDeterminationDate	dwc:Identification:dateIdentified	The date on which the subject was identified as representing the Taxon.	http://rs.tdwg.org/dwc/terms/dateIdentified	Determination Date	"1943","2009-02-18"
TaxonDeterminationStatus	dwc:Identification:identificationVerificationStatus	The the extent to which the taxonomic identification has been verified to be correct. From ITF-2 and HISPID-3: "empty" - not known whether the name of the record has been verified by an authority "0" (zero) - the name of the record has not been checked by any authority "1" - the name of the record	http://rs.tdwg.org/dwc/terms/identificationVerificationStatus	Determination Status	"0", "1", "2", "3", "4"

		determined by comparison with other named plants "2" - the name of the record determined by a taxonomist or by other competent persons using specimen and/or library and/or documented living material "3" - the name of the record determined by taxonomist engaged in systematic revision of the group "4" - The record is part of type gathering or propagated from type material by asexual methods			
TaxonDeterminationPreferredFlag		Designates current identification when "true"; "false" otherwise.		Preferred Determination	"true","false"
TaxonDeterminationRemarks		Remarks regarding the determination process.		Determination Remarks	"Determined at Univ. of Michigan", "specimen comprised mostly of Lophocolea sp.", "identification should be checked"
TypeStatus		Controlled vocabulary derived from ICBN and ICZN, e.g., holotype, isotype		Type Status	"clonotype","cotype","e loco originali","epitype","figured", "hapantotype","holotype","isoepitype ","isolectotype", "isoneotype","isosyntype", "isotype","lectotype",

					"neotype","original material","paralectotype","paratype","possible type","syntype","referred","topotype","type (status unknown)"
CollectingEventGUID		Relates to the collecting event; when/when/by whom the collection object was collected. (CollectingEvent concept)		Collecting Event GUID	"3c1dc496-e5c6-4849-b616-cada2896190d","ids.valdosta.edu/vsc/ce/10"
HigherCollectionObjectGUID		Relates to another collection object that represents a greater grouping of collection objects (parts of an individual is grouped by the individual, individuals are grouped in a jar/slide/pin/drawer). Taxonomic determination changes as you move up and down in this hierarchy as a larger grouping may include different species.		Part of Collection Object GUID	"3c1dc496-e5c6-4849-b616-cada2896190d","ids.valdosta.edu/vsc/co/VSC0001025"
PaleoContextAgeGUID	dwc:GeologicalContext:geologicalContextID	Relates to when the specimen lived, based on geological time scale. (Geology concept).		Paleo Age GUID	"3c1dc496-e5c6-4849-b616-cada2896190d","ids.valdosta.edu/vsc/pc/a55"

PaleoContextRockUnitGUID		Relates to when the specimen lived, based on the formation information where the specimen was collected. (Geology concept).		Paleo Litho GUID	"3c1dc496-e5c6-4849-b616-cada2896190d","ids.valdosta.edu/vsc/pc/r55"
PaleoContextBioGUID		Relates to when the specimen lived, based on the biological information where the specimen was collected. (Geology concept).		Paleo Bio GUID	"3c1dc496-e5c6-4849-b616-cada2896190d","ids.valdosta.edu/vsc/pc/b55"
PaleoContextDeterminedByGUID		Person (concept) who determines the age and lithostratigraphy of the specimen		Paleo Context Determined By GUID	"3c1dc496-e5c6-4849-b616-cada2896190d","ids.valdosta.edu/vsc/ps/16"
AssociatedMediaGUID	dwc:Occurrence:associatedMedia	Related to media object capturing some aspect of the specimen (labels, field notes, individual or lot images, illustrations, vocalizations)	http://rs.tdwg.org/dwc/terms/associatedMedia	Media GUID(s)	"3c1dc496-e5c6-4849-b616-cada2896190d","ids.valdosta.edu/vsc/md/VSC0001026.jpg"
HostForColletionObjectGUID		Relates to a particular collection object X (CollectionObject concept) as the host for the collection object X.		Host for specimen	"3c1dc496-e5c6-4849-b616-cada2896190d","ids.valdosta.edu/vsc/co/VSC0001025"
HostsOnCollectionObjectGUID		Relates to a particular collection object X (CollectionObject		Hosts on specimen	"3c1dc496-e5c6-4849-b616-cada2896190d","ids.valdosta.edu/vsc/co/VSC0001024"

		concept), with the collection object X as the host for this specimen.			
HostForTaxonGUID		Relates to a particular taxon, with the collection object as hosts for the taxon (Taxon concept).		Host for taxon	"3c1dc496-e5c6-4849-b616-cada2896190d","ids.valdosta.edu/vsc/tx/1234"
HostsOnTaxonGUID		Relates to a particular taxon, with taxon as the host (Taxon concept) for the collection object.		Hosts on taxon	"3c1dc496-e5c6-4849-b616-cada2896190d","ids.valdosta.edu/vsc/tx/1025"
KinshipGUID		Relates to other collection objects due to kinship.		Kinship GUID(s)	"3c1dc496-e5c6-4849-b616-cada2896190d","ids.valdosta.edu/vsc/co/VSC0001023"
KinshipType		Specifies the type of kinship between two collection objects (specimens).		Kinship Type	"sibling","parent of","child of"
Terms Derived from Other Data and Relationships					
PreviousDeterminations	dwc:Occurrence:previousIdentifications	A list (concatenated by ";") of previous assignments of taxonomic names to the specimen. Data derived from TaxonDeterminationGUID and related terms.	http://rs.tdwg.org/dwc/terms/previousIdentifications	Previous Determinations	"Rhacomitrium fasciculare by Richard Dean on 1910-10-10"
Terms Common to All Concepts					
iDigBioProviderGUID		Relates this record to the organization that is the source of the record; thus considered the curator of the data. (Organization		Collection GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"

 		Concept). iDigBio Organization UUID for the time being. As efforts such as GBR becomes developed and as all contributors get registered at GBR or similar efforts, the contents of this term may change over time.			
iDigBioPublisher GUID		Relates this record to the organization (Organization Concept) that is publishing the data on behalf of the source provider.		Publisher GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
ProviderCreated ByGUID		Relates this record to the original author of the record according to the provider (Person concept).		Creator GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
ProviderCreated Timestamp		Date and time when the record was originally created on the provider data management system.		Created Date/Time	"2012-08-15T00:14:17.880Z"
ProviderModifie dByGUID	dcterms:modified	Relates this record to the original author of the record modification according to the provider (Person concept).		Modified by GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
ProviderModifie dTimestamp		Date and time when the record was last modified on the provider data management system.	http://purl.org/dc/terms/modified	Modified Date/Time	"2012-08-15T00:14:17.880Z"
InformationWith held	dwc:informationWithh eld	Additional information that exists, but that has not been shared in the given record.	http://rs.tdwg.org/dwc/ter ms/informationWithheld	Information Withheld	"location information not given for endangered species", "collector identities withheld", "ask about tissue samples"
AttributionLogo URL	ac:attributionLogoURL	A URL providing access to a logo that symbolizes the attributed party (source). Implied from the collection profile when not explicitly provided.	http://rs.tdwg.org/ac/ter ms/attributionLogoURL	Attribution URL	"http://www.flmnh.ufl.edu/packages/f lmnh_theme/themes/flmnh/css/image s/xflmnh_logo.png.pagespeed.ic.TBE3 8Gm2Hy.png"

Rights	dcterms:rights	Information about rights held in and over the data resource. A full-text, readable copyright statement, as required by the national legislation of the copyright holder. On collections, this applies to all contained objects, unless the object itself has a different statement. Thus, implied from the collection profile when not explicitly provided.	http://purl.org/dc/terms/rights	Copyright Statement	"CC-BY-SA XY 2008, some rights reserved", "CC-BY Museum X, University Y", "Public Domain"
RightsOwner	dcterms:rightsHolder xmpRights:Owner cc:attributionName	Name(s) of the owners of the copyright; a "many" field. Implied from the collection profile when not explicitly provided.	http://purl.org/dc/terms/rightsHolder http://ns.adobe.com/xap/1.0/rights/Owner http://creativecommons.org/ns#attributionName	Copyright Owner	"John Doe", "Acme Inc.", "Biopix: JC Schou", "1998 California Academy of Sciences"
RightsLicense	xmpRights:UsageTerms	The license statement defining how the resource may be used. Implied from the collection profile when not explicitly provided.	http://ns.adobe.com/xap/1.0/rights/UsageTerms	License Terms	"Public Domain","CC BY","CC BY-SA","CC BY-NC","CC BY-NC-SA"
RightsLicenseStatementUrl	xmpRights:WebStatement cc:License	A URL defining or further elaborating on the license statement (e. g., a web page explaining the precise terms of use). Must be consistent with "RightsLicense". Implied from the collection profile when not explicitly provided.	http://ns.adobe.com/xap/1.0/rights/WebStatement http://creativecommons.org/ns#License	License URL	http://creativecommons.org/publicdomain/zero/1.0/,"http://creativecommons.org/licenses/by/3.0/","http://creativecommons.org/licenses/by-sa/3.0/","http://creativecommons.org/licenses/by-nc/3.0/","http://creativecommons.org/licenses/by-nc-sa/3.0/"

RightsLicenseLogoUrl	ac:licenseLogoURL	A URL providing access to a logo that symbolizes the License. Must be consistent with "RightsLicense". Implied from the collection profile when not explicitly provided.	http://rs.tdwg.org/ac/terms/licenseLogoURL	License Logo URL	http://mirrors.creativecommons.org/presskit/buttons/80x15/png/publicdomain.png,"http://mirrors.creativecommons.org/presskit/buttons/80x15/png/cc-zero.png", "http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by.png"," http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-sa.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-nc.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-nc-sa.png"
Terms Common to All Concepts and Automatically Entered by iDigBio					
uuid	dc:identifier dcterms:identifier	Unique identifier assigned to any new record into the system by iDigBio (iDigBio GUID).	http://purl.org/dc/elements/1.1/identifier http://purl.org/dc/terms/identifier	iDigBio GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
etag		Version given to the record.		iDigBio Version	380eca1760b662df022d5ff4acb0302889015a9"e"
iDigBioProvidedByGUID		Relates this record to the authenticated and authorized user (Person Concept) providing the new or modified data to iDigBio.		iDigBio Provided by GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
dateModified	dcterms:modified	Date and time when the record was created or modified on iDigBio.	http://purl.org/dc/terms/modified	iDigBio Provided Timestamp	"2012-08-15T00:14:17.880Z"
deleted		Deleted flag; indicates that the record has been removed by the provider. iDigBio will keep the information and not return in searches, unless explicitly requested.		iDigBio Deleted	"true","false"

Collecting Event Concept					
iDigBio	Standard(s)	Definition	References	User Interface Label	Examples
CollectingEventGUID	Event:eventID dc:identifier dcterms:identifier	GUID for the specimen collecting event	http://rs.tdwg.org/dwc/terms/eventID http://purl.org/dc/elements/1.1/identifier http://purl.org/dc/terms/identifier	Event GUID	"ids.valdosta.edu/vsc/ce/RHS12-01"
EventDateTimeInterval	Event:EventDate	Date and optionally time for the interval when the collecting event occurred. Intervals can be expressed separating the start date and end date with the character "/". Also BISON term: year	http://rs.tdwg.org/dwc/terms/eventDate	Event Date and Time Interval	"1980-07-21", ''2012-08-23T04:11Z", "2007-03-01/2007-05-11", "2007-03-01T13:00:00Z/2008-05-11T15:30:00Z"
EventDateTimePrecision		How precise is the collecting event start date/time.		Event Date and Time Precision	day season
EventVerbatimDateTime	Event:verbatimEventDate	Verbatim date and time when the collecting event occurred, exactly as reported by the collector in field book (for information that cannot fit EventDateTimeInterval)	http://rs.tdwg.org/dwc/terms/verbatimEventDate	Verbatim Event Date and Time	Aug 18-23 April
EventVerbatimDateTimeAnnotation		Indicates how the verbatim event data is reported: as range, season, month, etc. Should indicate format of date when it is not possible to distinguish day from month from year.		Verbatim Event Date and Time Annotation	

Habitat	Event:habitat	Habitat category or description of the collecting event location.	http://rs.tdwg.org/dwc/terms/habitat	Habitat	"under stone", "litter of Acacia nilotica forest", "humus sous bambous", "on sandy soil", "foret sur argile", "roadside clearing"
CollectingMethod		Description of the method used for collecting specimens.		Collecting Method	"beating vegetation", "general collecting", "hand collecting", "light trap", "UV light trap", "net", "mist net", "trap", "bottom trawl"
CollectingProtocol	Event:SamplingProtocol	Description of the protocol used for collecting specimens. Should be more precise and detailed than CollectingMethod.	http://rs.tdwg.org/dwc/terms/samplingProtocol	Collecting Protocol	"Takats et al. 2001. Guidelines for Nocturnal Owl Monitoring in North America. Beaverhill Bird Observatory and Bird Studies Canada, Edmonton, Alberta. 32 pp."
CollectingEffort	Event:SamplingEffort	The amount of effort expended during an Event.	http://rs.tdwg.org/dwc/terms/samplingEffort	Collecting Effort	"40 trap-nights", "10 observer-hours; 10 km by foot; 30 km by car"
InitialPreservative		Preservative in which the specimen was placed as initial fixative or preservative, at the time the specimen was collected. This is of key importance for guessing whether this specimen is useful for molecular genetics or not.		Initial Preservative	"75% ethanol", "formalin", "Bacardi 151 rum"
EventNumber	Event:fieldNumber	An alpha-numeric identifier given to the event in the field. Often serves as a link between field notes and the Event.	http://rs.tdwg.org/dwc/terms/fieldNumber	Field Number	"WA99_L01", "WA99_L02", "PBI_SA03_L25"
FieldNotes	Event:fieldNotes	One of a) an indicator of the existence of, b) a reference to (publication, URI), or c) the text of notes	http://rs.tdwg.org/dwc/terms/fieldNotes	Field Notes	

		taken in the field about the Event.			
EventRemarks	Event:eventRemarks	General remarks about the collecting event. Consultation with MISC about the possibility of creating new terms to accommodate the information being captured in this term is encouraged.	http://rs.tdwg.org/dwc/terms/eventRemarks	Notes	"after the recent rains the river is nearly at flood stage", "roadside locality with moist areas", "collecting next to power substation"
Relationships to Other Concepts
EventGeographyGUID		Relates a collecting event with the locality information (Geography concept).			
CollectorGUID		Relates a collecting event with each collector's information (Person concept).			
CollectionObjectGUID		Relates a collecting event with the specimens collected (CollectionObject concept).			
CollectingProtocolReferenceGUID		Relates to a reference that describes the collecting protocol.			
Terms Common to All Concepts

iDigBioProviderGUID		Relates this record to the organization that is the source of the record; thus considered the curator of the data. (Organization Concept). iDigBio Organization UUID for the time being. As efforts such as GBR becomes developed and as all contributors get registered at GBR or similar efforts, the contents of this term may change over time.		Collection GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
iDigBioPublisherGUID		Relates this record to the organization (Organization Concept) that is publishing the data on behalf of the source provider.		Publisher GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
ProviderCreatedByGUID		Relates this record to the original author of the record according to the provider (Person concept).		Creator GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
ProviderCreatedTimestamp		Date and time when the record was originally created on the provider data management system.		Created Date/Time	"2012-08-15T00:14:17.880Z"
ProviderModifiedByGUID	dcterms:modified	Relates this record to the original author of the record modification according to the provider (Person		Modified by GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"

		concept).			
ProviderModifiedTimestamp		Date and time when the record was last modified on the provider data management system.	http://purl.org/dc/terms/modified	Modified Date/Time	"2012-08-15T00:14:17.880Z"
InformationWithheld	dwc:informationWithheld	Additional information that exists, but that has not been shared in the given record.	http://rs.tdwg.org/dwc/terms/informationWithheld	Information Withheld	"location information not given for endangered species", "collector identities withheld", "ask about tissue samples"
AttributionLogoURL	ac:attributionLogoURL	A URL providing access to a logo that symbolizes the attributed party (source). Implied from the collection profile when not explicitly provided.	http://rs.tdwg.org/ac/terms/attributionLogoURL	Attribution URL	"http://www.flmnh.ufl.edu/packages/flmnh_theme/themes/flmnh/css/images/xflmnh_logo.png.pagespeed.ic.TBE38Gm2Hy.png"
Rights	dcterms:rights	Information about rights held in and over the data resource. A full-text, readable copyright statement, as required by the national legislation of the copyright holder. On collections, this applies to all contained objects, unless the object itself has a different statement. Thus, implied from the collection profile when not explicitly provided.	http://purl.org/dc/terms/rights	Copyright Statement	"CC-BY-SA XY 2008, some rights reserved", "CC-BY Museum X, University Y", "Public Domain"

RightsOwner	dcterms:rightsHolder xmpRights:Owner cc:attributionName	Name(s) of the owners of the copyright; a "many" field. Implied from the collection profile when not explicitly provided.	http://purl.org/dc/terms/rightsHolder http://ns.adobe.com/xap/1.0/rights/Owner http://creativecommons.org/ns#attributionName	Copyright Owner	"John Doe", "Acme Inc.", "Biopix: JC Schou", "1998 California Academy of Sciences"
RightsLicense	xmpRights:UsageTerms	The license statement defining how the resource may be used. Implied from the collection profile when not explicitly provided.	http://ns.adobe.com/xap/1.0/rights/UsageTerms	License Terms	"Public Domain","CC BY","CC BY-SA","CC BY-NC","CC BY-NC-SA"
RightsLicenseStatementUrl	xmpRights:WebStatement cc:License	A URL defining or further elaborating on the license statement (e. g., a web page explaining the precise terms of use). Must be consistent with "RightsLicense". Implied from the collection profile when not explicitly provided.	http://ns.adobe.com/xap/1.0/rights/WebStatement http://creativecommons.org/ns#License	License URL	http://creativecommons.org/publicdomain/zero/1.0/,"http://creativecommons.org/licenses/by/3.0/","http://creativecommons.org/licenses/by-sa/3.0/","http://creativecommons.org/licenses/by-nc/3.0/","http://creativecommons.org/licenses/by-nc-sa/3.0/"

RightsLicenseLogoUrl	ac:licenseLogoURL	A URL providing access to a logo that symbolizes the License. Must be consistent with "RightsLicense". Implied from the collection profile when not explicitly provided.	http://rs.tdwg.org/ac/terms/licenseLogoURL	License Logo URL	http://mirrors.creativecommons.org/presskit/buttons/80x15/png/publicdomain.png,"http://mirrors.creativecommons.org/presskit/buttons/80x15/png/cc-zero.png", "http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-sa.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-nc.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-nc-sa.png"
			Terms Common to All Concepts and Automatically Entered by iDigBio		
uuid	dc:identifier dcterms:identifier	Unique identifier assigned to any new record into the system by iDigBio (iDigBio GUID).	http://purl.org/dc/elements/1.1/identifier http://purl.org/dc/terms/identifier	iDigBio GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
etag		Version given to the record		iDigBio Version	380eca1760b662df022d5ff4acb0302889015a9"e"
iDigBioProvidedByGUID		Relates this record to the authenticated and authorized user (Person Concept) providing the new or modified data to iDigBio.		iDigBio Provided by GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
dateModified	dcterms:modified	Date and time when the record was created or modified on iDigBio.	http://purl.org/dc/terms/modified	iDigBio Provided Timestamp	"2012-08-15T00:14:17.880Z"
deleted		Deleted flag; indicates that the record has been removed by the		iDigBio Deleted	"true","false"

		provider. iDigBio will keep the information and not return in searches, unless explicitly requested.			
		Terms Deprecated from DwC			
	Event:year	The four-digit year in which the Event occurred, according to the Common Era Calendar.	http://rs.tdwg.org/dwc/terms/year		
	Event:month	The ordinal month in which the Event occurred.	http://rs.tdwg.org/dwc/terms/month		
	Event:day	The integer day of the month on which the Event occurred.	http://rs.tdwg.org/dwc/terms/day		
	Event:startDayOfYear	The ordinal day of the year on which the collecting event started (1 for January 1, 365 for December 31, except in a leap year, in which case it is 366).	http://rs.tdwg.org/dwc/terms/startDayOfYear		
	Event:endDayOfYear	The ordinal day of the year on which the collecting event ended (1 for January 1, 365 for December 31, except in a leap year, in which case it is 366).	http://rs.tdwg.org/dwc/terms/endDayOfYear		
	Event:eventTime	The time or interval during which an Event occurred. Recommended best practice is to use an encoding scheme, such as ISO 8601:2004(E).	http://rs.tdwg.org/dwc/terms/eventTime		

Geography Concept Terms					
iDigBio	**Standard(s)**	**Definition**	**References**	**User Interface Label**	**Examples**
GeographyGUID	dwc:Location: locationID	GUID for a geographic location/region.	http://rs.tdwg.org/dwc/terms/locationID http://purl.org/dc/terms/identifier		
LocationName	dwc:Location: locality	The name or description of the place. May contain information modified from the original to correct perceived errors or standardize the description.	http://rs.tdwg.org/dwc/terms/locality		"Earth", "East side of Cherry Creek Range", "Atlantic Ocean", "3 miles west of Strawn"
NameLanguageCode		Code for the language used to describe the location (LocationName).		Language Code	"en", "es", "pt"
Abbreviation		Abbreviation used for the named location.			"FL", "USA"
NameCode		Unique codes for the named place. For countries, ISO-3166-3 is recommended. For places in the US, INCITS 446-2008 is recommended.			"USA"
GeographyAccordingTo	dwc:locationAccordingTo	Source of the GeographyGUID, especially when GeographyGUID is not resolvable.	http://rs.tdwg.org/dwc/terms/locationAccordingTo	Source of Name	"INCITS 446-2008"

VerbatimName	dwc:Location: VerbatimLocality	The name or description of the place, as originally found in the physical material (labels and field notes).	http://rs.tdwg.org/dwc/terms/verbatimLocality	Verbatim Name	"Section measured on E edge of Lincoln Peak Cirque, Lincoln Peak, Snake Range","3 mi W of Strawn", "In saddle W of high point on Leonard Mtn and at about the 5800 ft contour.", "10 mi E of Alpine Junction, near Wolf Creek Campground, 0.5 mi W of mp 126 on WY Rt E 26/89"
GeographyRank		Type of geographical area described following Geographic Names Information Service (GNIS)	http://geonames.usgs.gov/pls/gnispublic/f?p=gnispq:8:2286475105288396	Geography Rank	"continent","ocean","country","water Body", "islandGroup", "island", "stateProvince", "county", "municipality", "arch", "area", "arroyo", "bar", "basin", "bay", "beach", "bench", "bend", "canal", "cape", "cave", "channel", "civil", "cliff", "crater", "dam", "falls", "flat", "forest", "gap", "glacier", "gut", "harbor", "isthmus", "lake", "lava", "park", "plain", "range", "rapids", "reserve", "ridge", "sea", "slope", "spring", "stream", "summit", "swamp", "trail", "valley", "woods".
GML		All geographical features expressed as Geography Markup Language (GML) defined by the Open Geospatial Consortium (OGC). For further definitions, see http://www.opengeospatial.org/standards/gml.		GML	"\<gml:Polygon\>\<gml:exterior\>\<gml:LinearRing\>\<gml:posList\>45.256 -110.45 46.46 -109.48 43.84 -109.86 45.256 -110.45\</gml:posList\>\</gml:LinearRing\>\</gml:exterior\>\</gml:Polygon\>","\<gml:Point gml:id="p21" srsName="http://www.opengis.net/def/crs/EPSG/0/4326"\>\<gml:coordinates\>45.67, 88.56\</gml:coordinates\>\</gml:Point\>", "\<gml:LineString\>\<gml:posList\>100,200 150,300\</gml:posList\>\</gml:LineString\>"

CentroidDecimalLatitude	dwc:Location: decimalLatitude	Geographic latitude in decimal degrees, using the spatial reference system given in geodeticDatum, of the geographic center represented by the Name. Positive values are north of the Equator, negative values are south of it. Represents the best value known by the provider.	http://rs.tdwg.org/dwc/terms/decimalLatitude	Centroid Decimal Latitude	"38.6472200000", "-72.0000000000"
CentroidDecimalLongitude	dwc:Location: decimalLongitude	Geographic longitude in decimal degrees, using the spatial reference system given in geodeticDatum, of the geographic center represented by the Name. Positive values are east of the Greenwich Meridian, negative values are west of it. Represents the best value known by the provider.	http://rs.tdwg.org/dwc/terms/decimalLongitude	Centroid Decimal Longitude	"-121.1761111", "95.5943760000"
GeodeticDatum	dwc:Location: geodeticDatum	The ellipsoid, geodetic datum, or spatial reference system (SRS) upon which the geographic coordinates given	ttp://rs.tdwg.org/dwc/terms/geodeticDatum	Datum	"WGS84","NAD27","NAD83","EPSG:4326","Campo Inchauspe", "European 1950", "Clarke 1866", "unknown"

		in CentroidDecimalLatitude and CentroidDecimalLongitude are based.			
CoordinateUncertaintyInMeters	dwc:Location: coordinateUncertaintyInMeters	The horizontal distance (in meters) from the given CentroidDecimalLatitude and CentroidDecimalLongitude describing the smallest circle containing the whole of the Location.	http://rs.tdwg.org/dwc/terms/coordinateUncertaintyInMeters	Coordinate Uncertainty in Meters	
CoordinateUncertaintyGml		A geographic area representing the uncertainty around the centroid.		Coordinate Uncertainty GML	
CoordinatePrecision	dwc:Location: coordinatePrecision	A decimal representation of the precision of the coordinates given in the CentroidDecimalLatitude and CentroidDecimalLongitude.	http://rs.tdwg.org/dwc/terms/coordinatePrecision	Coordinate Precision	"0.00001" (normal GPS limit for decimal degrees), "0.000278" (nearest second), "0.01667" (nearest minute), "1.0" (nearest degree).
VerbatimCoodinates	dwc:Location: verbatimCoordinates	The geographic coordinates of the place, as originally found in the physical material. May include datum, uncertaintly, precision, georeference	http://rs.tdwg.org/dwc/terms/verbatimCoordinates	Verbatim Coordinates	"38:53:1 N, 114:18:5 W", "38.64722° N, 95.594376° W"

		source material, and unit.			
GeoreferencedTimestamp	dwc:Location: georeferencedDate	The date on which the named geographic region was georeferenced.	http://rs.tdwg.org/dwc/terms/georeferencedDate	Georeference Timestamp	"1980-07-21", "2012-08-23T04:11Z", "2007-03-01/2007-05-11", "2007-03-01T13:00:00Z/2008-05-11T15:30:00Z"
GeoreferencesDecimalLatitude	dwc:decimalLatitude	Geographic latitude in decimal degrees, using the spatial reference system given in GeodeticDatums, of the geographic center represented by the Name. Positive values are north of the Equator, negative values are south of it. Represents the best value known by the provider.	http://rs.tdwg.org/dwc/terms/#decimalLatitude	Georeference Decimal Latitude	
GeoreferencesDecimalLongitude	dwc:decimalLongitude	Geographic longitude in decimal degrees, using the spatial reference system given in GeodeticDatum, of the geographic center represented by the Name. Positive values are east of the Greenwich Meridian, negative	http://rs.tdwg.org/dwc/terms/#decimalLongitude	Georeference Decimal Longitude	

		values are west of it. Represents one of many values assigned by different people/systems.			
GeoreferencesGeodeticDatum	dwc:Location: geodeticDatum	The ellipsoid, geodetic datum, or spatial reference system (SRS) upon which the geographic coordinates given in CentroidDecimalLatitude and CentroidDecimalLongitude are based.	http://rs.tdwg.org/dwc/terms/#geodeticDatum	Georeference Geodetic Datum	"WGS84","NAD27","NAD83","EPSG:4326","Campo Inchauspe", "European 1950", "Clarke 1866", "unknown"
GeoreferencesCoordinateUncertaintyInMeters	dwc:Location: coordinateUncertaintyInMeters	The horizontal distance (in meters) from the given CentroidDecimalLatitude and CentroidDecimalLongitude describing the smallest circle containing the whole of the Location.	http://rs.tdwg.org/dwc/terms/#coordinateUncertaintyInMeters	Georeference Coordinate Uncertainty in Meters	
GeoreferencesMethod	dwc:georeferenceSources	Method used for georeferencing. When using electronic tools, specify product version.	http://rs.tdwg.org/dwc/terms/georeferenceSources	Georeference Method	"Geolocate 4", "Geolocate Web", "Crowdsourcing","BioGeomancer","Manual with local/regional maps","Manual with GoogleEarth","GPS","Gazetteer","Label","Publication", "TGN",

GeoreferencesRemarks	dwc:Location: georeference Remarks	Notes or comments about the spatial description determination, explaining assumptions made in addition or opposition to the those formalized in the method referred to in georeferenceProtocol.	http://rs.tdwg.org/dwc/terms/#georeferenceRemarks	Georeference Remarks	
GeoreferencesTimestamp	dwc:georeferencedDate	The date on which the named geographic region was georeferenced.	http://rs.tdwg.org/dwc/terms/#georeferencedDate	Georeference Timestamp	"1980-07-21", ''2012-08-23T04:11Z", "2007-03-01/2007-05-11", "2007-03-01T13:00:00Z/2008-05-11T15:30:00Z"
GeoreferencesGML		All geographical features for one georeference, expressed as Geography Markup Language (GML) defined by the Open Geospatial Consortium (OGC). For further definitions, see http://www.opengeospatial.org/standards/gml.		Georeference GML	
MinimumAltitudeInMeters	dwc:minimumElevationInMeters	The lower limit of the range of altitude (above sea level or below), in meters. Positive for above sea level, negative otherwise.	http://rs.tdwg.org/dwc/terms/#minimumElevationInMeters	Minimum Altitude in Meters	"100", "-200"

MaximumAltitudeInMeters	dwc:maximumElevationInMeters	The upper limit of the range of altitude (above sea level or below), in meters. Positive for above sea level, negative otherwise.	http://rs.tdwg.org/dwc/terms/#maximumElevationInMeters	Maximum Altitude in Meters	"100", "-200"
VerbatimAltitude	dwc:vebatrimElevation	The original description and unit of the altitude (above or below sea level) of the geographical region as it appears on physical objects (labels, field notes).	http://rs.tdwg.org/dwc/terms/#verbatimElevation	Verbatim Altitude	"300 ft", "200 m below sea level"
AltitudeAccuracyInMeters		Accuracy of the altitude measurement in meters		Altitude Accuracy in Meters	"100", "10"
AltitudeMethod		Method used for determining the altitude.		Altitude Method	
MinimumDistanceToSurface		The lower limit of the range of the distance relative to surface, in meters. Positive above surface, negative below surface (depth).		Minimum Distance to Surface	"10", "-20"
MaximumDistanceToSurface		The upper limit of the range of the distance relative to surface, in meters. Positive above surface, negative below surface (depth).		Maximum Distance to Surface	"10", "-20"

VerbatimDistanceToSurface		The original description and unit of the distance to the surface as it appears on physical objects (labels, field notes).		Verbatim Distance to Surface	"10 m above surface", "bottom of a lake (at depth 20 m)"
MinimumDistanceToSurface2		The lower limit of the range of the distance relative to surface described in MinimumDistanceToSurface/MaximumDistanceToSurface, in meters. Positive above surface, negative below surface (depth).		Minimum Distance to Surface 2	"1", "-1.5"
MaximumDistanceToSurface2		The upper limit of the range of the distance relative to surface described in MinimumDistanceToSurface/MaximumDistanceToSurface, in meters. Positive above surface, negative below surface (depth).		Maximum Distance to Surface 2	"1", "-1.5"
VerbatimDistanceToSurface2		The original description and unit of the distance to the surface described in MinimumDistance		Verbatim Distance to Surface 2	"1 m above the top of a tree 10 m tall", "1.5 meter sediment core from the bottom of a lake (at depth 20 m)"

		ToSurface/Maximu mDistanceToSurfa ce, as it appears on physical objects (labels, field notes).			
VerbatimDepth	dwc:verbatim Depth	The original description of the depth below the local surface.	http://rs.tdwg.org/dwc/terms/# verbatimDepth		
MinimumDepthInMeters	dwc:minimu mDepthInMet ers	The lesser depth of a range of depth below the local surface, in meters.	http://rs.tdwg.org/dwc/terms/# minimumDepthInMeters		
MaximumDepthInMeters	dwc:maximu mDepthInMet ers	The greater depth of a range of depth below the local surface, in meters.	http://rs.tdwg.org/dwc/terms/# maximumDepthInMeters		
MinimumDistanceAboveSurfaceI nMeters	dwc:minimu mDistanceAb oveSurfaceIn Meters	The lesser distance in a range of distance from a reference surface in the vertical direction, in meters. Use positive values.	http://rs.tdwg.org/dwc/terms/# minimumDistanceAboveSurfaceI nMeters		
MaximumDistanceAboveSurface InMeters	dwc:maximu mDistanceAb oveSurfaceIn Meters	The greater distance in a range of distance from a reference surface in the vertical direction, in meters. Use positive values.	http://rs.tdwg.org/dwc/terms/# maximumDistanceAboveSurface InMeters		
LocationRemarks	dwc:Location: Remarks	Comments or notes about the Location.	http://rs.tdwg.org/dwc/terms/l ocationRemarks	Remarks	"under water since 2005"
Relationships to Other Concepts					

HigherGeographyGUID	dwc:Location: higherGeographyID	Relates to the geographic region within which this geographic location/region occurrs (Geography concept).	http://rs.tdwg.org/dwc/terms/higherGeographyID	Higher Geography	
GeoreferenceProtocolGUID		Relates to a reference with the methods used to determine the spatial footprint, coordinates, and uncertainties (Reference concept).			
CentroidGeoreferencedByGUID		Relates to a person who performed the manual or automated georeference for the best centroid of the location (Person concept).			
GeoreferencesGeoreferencedBy GUID		Relates to a person who performed the manual or automated georeference for one of many centroids of the location (Person concept).			
CurrentGeographyGUID		Relates to the most recent accepted name for the geographic region (Geography concept).			

Terms Common to All Concepts					
ProviderCreatedByGUID		Relates the geography to the original author of the record according to the provider (Person concept).			
ProviderCreatedTimestamp		Date and time when the record was originally created on the provider data management system.			"2012-08-15T00:14:17.880Z"
ProviderModifiedByGUID		Relates the geography to the original author of the record modification according to the provider (Person concept).			
ProviderModifiedTimestamp		Date and time when the record was modified on the provider data management system.			"2012-08-15T00:14:17.880Z"
RightsOwner		A list of the names of the owners of the copyright.	http://ns.adobe.com/xap/1.0/rights/Owner	Copyright Owner	John Doe, "Acme Inc."
RightsLicense		The license statement defining how resources may be used.	http://ns.adobe.com/xap/1.0/rights/UsageTerms	License Terms	Public Domain,"CC BY","CC BY-SA","CC BY-NC","CC BY-NC-SA"
RightsLicenseStatementUrl		A URL defining or further elaborating on the license statement (e. g., a web page	http://ns.adobe.com/xap/1.0/rights/WebStatement	License URL	http://creativecommons.org/publicdomain/zero/1.0/,"http://creativecommons.org/licenses/by/3.0/","http://creativecommons.org/licenses/by-sa/3.0/","http://creativecommons.org

		explaining the precise terms of use).			/licenses/by-nc/3.0/","http://creativecommons.org/licenses/by-nc-sa/3.0/"
RightsLicenseLogoUrl		A URL providing access to a logo that symbolizes the License.	http://rs.tdwg.org/ac/terms/licenseLogoURL	License Logo URL	http://mirrors.creativecommons.org/presskit/buttons/80x15/png/publicdomain.png,"http://mirrors.creativecommons.org/presskit/buttons/80x15/png/cc-zero.png", "http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-sa.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-nc.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-nc-sa.png"
Rights		Information about rights held in and over the media resource, not over the media metadata text. A full-text, readable copyright statement, as required by the national legislation of the copyright holder. On collections, this applies to all contained objects, unless the object itself has a different statement.	http://purl.org/dc/terms/rights	Copyright Statement	"Copyright XY 2008, all rights reserved", "© 2008 XY Museum" , "Public Domain", "Copyright unknown"
Terms Common to All Concepts and Automatically Entered by iDigBio					
uuid		Unique identifier given to any new		iDigBioGUID	3c1dc496-e5c6-4849-b616-cada2896190d

		record into the system.			
etag		Version given to the record		iDigBioVersion	380eca1760b662df022d5ff4acb03028 89015a9e
iDigBioProvidedByGUID		Relates the collecting event to the authenticated and authorized user providing the new or modified data to iDigBio.		iDigBioProvidedByGUID	3c1dc496-e5c6-4849-b616-cada2896190d
dateModified		Date and time when the record was created or modified on iDigBio.		iDigBioProvidedTimesta mp	2012-08-15T00:14:17.880Z

Geology Concept Terms					
iDigBio	**Standard(s)**	**Definition**	**References**	**User Interface Label**	**Examples**
GeologyGUID	dwc:GeologicalContext:geologicalContextID dc:identifier dcterms:identifier	GUID for a Geological names in a tree.	http://rs.tdwg.org/dwc/terms/geologicalContextID http://purl.org/dc/elements/1.1/identifier http://purl.org/dc/terms/identifier	Geology GUID	"ids.valdosta.edu/vsc/gl/106"
Name		The name of the geologic time scale in english. May contain information modified from the original to correct perceived errors or standardize the name.		Geologic Time	"Jurassic","Guadalupian Capitanian","Lower Tertiary","Lochkovian"
NameLanguageCode		Code for the language used to name the time scale.		Language Code	"en", "es", "pt"
Abbreviation		Abbreviation used for the named geologic time.		Geologic Time Abbreviation	"Q."
NameCode		Unique codes for the named geologic time. It appears that the International Commission on Stratigraphy (ICS) is not currently assigning codes; so a best practice needs to be found (can the name itself be a GUID?).			
GeologyType		Type of geological name.		Geological Type	"age", "strata", "biological", "chemical"

GeologyRank		Time, strata, biological or chemical name rank.		Lithostratigraphy	
BaseStartInMa		Start time of the geological period in Mega-annum (million years), or Ma.		Start of Geo Period	"65.5","450"
BaseStartUncertaintyInMa		Uncertainty for the start time of the geological period in Mega-annum (million years), or Ma. How is uncertainty defined?		Start Base in MA Uncertainty	"0.7","2.8","unknown"
TopEndInMa		End time of the geological period in Mega-annum (million years), or Ma.		Top End in MA	"0.34","216.5","present","unknown"
TopEndUncertaintyInMa		Uncertainty for the end time of the geological period in Mega-annum (million years), or Ma. How is uncertainty defined?		Top End in MA Uncertainty	"0.7","2.8","unknown"
GeologyAccordingTo		Source of the NameGUID, when NameGUID is not resolvable.		Geology According To	"ICS","North America","regional","Australia"
NamePublishedIn		Information about the publication first defining the geological strata/time. Give preference to use NamePublishedInGUID.		Name Published In	"Cocks et al., 1971","Harmer, 1896","Ruzhenchev, 1954"
NamePublishedInYear		Year in which the name was first defined.		Date Published Year	"1971","1896","1954"
VerbatimName		The name or description of the place, as originally		Verbatim Name	"Middle Devonian?","Lower/Middle Pennsylvanian"

		found in the physical material (labels and field notes).			
GeologyRemarks		Additional remarks about the geological strata/time/bio. Consultation with MISC about the possibility of creating new terms to accommodate the information being captured in this term is encouraged.		Remarks	
Relationships to Other Concepts					
HigherGeologyGUID		Relates to the geological strata/timew ithin which this geological strata/time occurrs (Geology concept).			
NamePublishedInGUID		Relates to publications describing the geological strata/time.			
CurrentNameGUID		Relates to the most recent accepted name for the geological strata/time (Geology concept). Chronostratigraphy			
PaleoDeterminationGUID		? Need to understand how the specimen is linked to Geology.			
LithostratigraphyGUID		? Need to understand how lithostratigraphy is different from			

		geology.			
Terms Common to All Concepts
iDigBioProviderGUID		Relates this record to the organization that is the source of the record; thus considered the curator of the data. (Organization Concept). iDigBio Organization UUID for the time being. As efforts such as GBR becomes developed and as all contributors get registered at GBR or similar efforts, the contents of this term may change over time.		Collection GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
iDigBioPublisherGUID		Relates this record to the organization (Organization Concept) that is publishing the data on behalf of the source provider.		Publisher GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
ProviderCreatedByGUID		Relates this record to the original author of the record according to the provider (Person concept).		Creator GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
ProviderCreatedTimestamp		Date and time when the record was originally created on the provider data management system.		Created Date/Time	"2012-08-15T00:14:17.880Z"

ProviderModifiedByGUID	dcterms:modified	Relates this record to the original author of the record modification according to the provider (Person concept).		Modified by GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
ProviderModifiedTimestamp		Date and time when the record was last modified on the provider data management system.	http://purl.org/dc/terms/modified	Modified Date/Time	"2012-08-15T00:14:17.880Z"
InformationWithheld	dwc:informationWithheld	Additional information that exists, but that has not been shared in the given record.	http://rs.tdwg.org/dwc/terms/informationWithheld	Information Withheld	"location information not given for endangered species", "collector identities withheld", "ask about tissue samples"
AttributionLogoURL	ac:attributionLogoURL	A URL providing access to a logo that symbolizes the attributed party (source). Implied from the collection profile when not explicitly provided.	http://rs.tdwg.org/ac/terms/attributionLogoURL	Attribution URL	"http://www.flmnh.ufl.edu/packages/flmnh_theme/themes/flmnh/css/images/xflmnh_logo.png.pagespeed.ic.TBE38Gm2Hy.png"
Rights	dcterms:rights	Information about rights held in and over the data resource. A full-text, readable copyright statement, as required by the national legislation of the copyright holder. On collections, this applies to all contained objects, unless the object itself has a different statement. Thus, implied from the collection profile	http://purl.org/dc/terms/rights	Copyright Statement	"CC-BY-SA XY 2008, some rights reserved", "CC-BY Museum X, University Y", "Public Domain"

		when not explicitly provided.			
RightsOwner	dcterms:rightsHolder xmpRights:Owner cc:attributionName	Name(s) of the owners of the copyright; a "many" field. Implied from the collection profile when not explicitly provided.	http://purl.org/dc/terms/rightsHolder http://ns.adobe.com/xap/1.0/rights/Owner http://creativecommons.org/ns#attributionName	Copyright Owner	"John Doe", "Acme Inc.", "Biopix: JC Schou", "1998 California Academy of Sciences"
RightsLicense	xmpRights:UsageTerms	The license statement defining how the resource may be used. Implied from the collection profile when not explicitly provided.	http://ns.adobe.com/xap/1.0/rights/UsageTerms	License Terms	"Public Domain","CC BY","CC BY-SA","CC BY-NC","CC BY-NC-SA"
RightsLicenseStatementUrl	xmpRights:WebStatement cc:License	A URL defining or further elaborating on the license statement (e. g., a web page explaining the precise terms of use). Must be consistent with "RightsLicense". Implied from the collection profile when not explicitly provided.	http://ns.adobe.com/xap/1.0/rights/WebStatement http://creativecommons.org/ns#License	License URL	http://creativecommons.org/publicdomain/zero/1.0,"http://creativecommons.org/licenses/by/3.0/","http://creativecommons.org/licenses/by-sa/3.0/","http://creativecommons.org/licenses/by-nc/3.0/","http://creativecommons.org/licenses/by-nc-sa/3.0/"
RightsLicenseLogoUrl	ac:licenseLogoURL	A URL providing access to a logo that symbolizes the License. Must be consistent with "RightsLicense". Implied from the collection profile when not explicitly provided.	http://rs.tdwg.org/ac/terms/licenseLogoURL	License Logo URL	http://mirrors.creativecommons.org/presskit/buttons/80x15/png/publicdomain.png,"http://mirrors.creativecommons.org/presskit/buttons/80x15/png/cc-zero.png", "http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-sa.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-nc.png","http://mirrors.creativecomm

					ons.org/presskit/buttons/80x15/png/by-nc-sa.png"
Terms Common to All Concepts and Automatically Entered by iDigBio					
uuid	dc:identifier dcterms:identifier	Unique identifier assigned to any new record into the system by iDigBio (iDigBio GUID).	http://purl.org/dc/elements/1.1/identifier http://purl.org/dc/terms/identifier	iDigBio GUID	3c1dc496-e5c6-4849-b616-cada2896190d
etag		Version given to the record		iDigBio Version	380eca1760b662df022d5ff4acb03028 89015a9"e"
iDigBioProvidedByGUID		Relates this record to the authenticated and authorized user (Person Concept) providing the new or modified data to iDigBio.		iDigBio Provided by GUID	3c1dc496-e5c6-4849-b616-cada2896190d
dateModified	dcterms:modified	Date and time when the record was created or modified on iDigBio.	http://purl.org/dc/terms/modified	iDigBio Provided Timestamp	2012-08-15T00:14:17.880Z
deleted		Deleted flag; indicates that the record has been removed by the provider. iDigBio will keep the information and not return in searches, unless explicitly requested.		iDigBio Deleted	true,"false"

Media Concept Terms					
iDigBio	Standard(s)	Definition	References	User Interface Label	Examples
MediaGUID	dc:identifier dcterms:identifier	GUID for a digital multimedia object.	http://purl.org/dc/elements/1.1/identifier http://purl.org/dc/terms/identifier	Media GUID	"3c1dc496-e5c6-4849-b616-cada2896190d", "ids.amnh.org/AMNH_PBI 00010147 lateral.jpg", "herbariumimages\vsc\VSC0043330.jpg"
MediaUrl	ac:accessURI	A URL providing access to the multimedia object; media files should be recorded at the highest quality possible. The URL exposed by iDigBio is automatically filled in this field when the data provider uploads the media object through the image ingestion appliance. For data providers that would prefer to serve the image themselves, this is a required field.	http://rs.tdwg.org/ac/terms/accessURI	Media URL	"http://media.idigbio.org/3c1dc496-e5c6-4849-b616-cada2896190d.jpg", "http://media.amnh.org/AMNH_PBI 00010147 lateral.jpg", "http://www.valdosta.edu/vsc/VSC0043330.jpg", "http://www.morphbank.net/?id=185041&imgType=jpg"
MimeType	dc:format	Technical type (format) of digital multimedia object. When using the image ingestion appliance, this is automatically filled based on the	http://purl.org/dc/terms/format	Media Type	"image/jpeg","image/tiff","video/mp4","audio/mp4", "application/pdf", "text/csv", "model/x3d+xml", "application/json", "application/vnd.google-earth.kml+xml", "application/gml+xml"

		extension of the filename.			
MediaMetadata		Blob of text containing metadata about the media (e.g., from EXIF, IPTC). Derived from the object when using the ingestion appliance.		EXIF Information	
MediaSizeInBytes	dc:extent	Size in bytes of the multimedia resource accessible through the MediaUrl. Derived from the object when using the ingestion appliance.	http://purl.org/dc/terms/extent	Media Size	"12345"
OriginalFileName		Entire path, path+filename, partial path+filename or just the filename as stored by the data provider. The purpose of this field is to help the provider correlate the media record with the original file, usually in an offline storage. Derived from the object when using the ingestion appliance.		Original Filename	"images/AMNH_PBI/AMNH_PBI 00010147 lateral.jpg", "Plants/VSC0043330.jpg"

Description	dc:description	Description of the individual resource, containing the Who, What, When, Where and Why as free-form text.	http://purl.org/dc/terms/description	Description	"Scanned herbarium sheet with specimen collected West of Plant City 4 miles from Mango Jct., on Hwy 92."
LanguageCode	dc:language	Code for the language used in the title and description.	http://purl.org/dc/terms/language	Language Code	en, "es", "pt"
Title	dc:title	Concise title, name, or brief descriptive label of individual resource. This field should include the complete title with all the subtitles, if any.	http://purl.org/dc/terms/title	Title	"Ilex glabra from FSU"
DigitizationDevice	ac:captureDevice	Free form text describing the device or devices used to create the resource.	http://rs.tdwg.org/ac/terms/captureDevice	Capture Device	"Canon Supershot 2000","Makroscan Scanner 2000","Zeiss Axioscope with Camera IIIu","SEM (Scanning Electron Microscope)"
NominalPixelResolution		The real size of the pixel depicted in the image (e.g., microscopy). Include a number and a unit.		Nominal Pixel Size	"128μm"
Magnification		Magnification applied when capturing the image of an object.		Magnification	"4x", "100x"
OcrOutput		Output of the process of applying OCR to the multimedia object.		OCR Output	

OcrTechnology		Free form text describing the software utilized for OCR as well as any additional technique (cropping, color alteration applied, controlled vocabulary).		OCR Technology	"Tesseract version 3.01 on Windows, latin character set"
MediaContentKeyword	dc:type ac:subtype ac:tag	Controlled vocabulary that can briefly describe the subject/content of the digital multimedia object.	http://purl.org/dc/terms/type http://rs.tdwg.org/ac/terms/subtype http://rs.tdwg.org/ac/terms/tag	Tag	"LabelImage","Fieldbook","FieldImage","PhysicalSpecimenImage","WildLivingSpecimenImage", "LivingSpecimenImage", "Illustration", "WetSpecimen", "SheetSpecimen", "PaleoSpecimen", "DrawerOfSpecimens", "SlideSpecimen", "BirdSong", "MultipleBirdSong"
FundingSource		Funding source(s) related to the digitization effort of this media object. Multiple funding sources should be provided as a "many" field, with each funding source linked to a particular purpose.		Funding source(s)	PBI-12345,"BRC-12345"
FundingPurpose		Funding purpose (specimen collection, initial digital data capture, metadata augmentation, personnel, etc.)		Funding purpose	"collecting", "imaging", "databasing", "genetics", "taxonomy"
Relationships to Other Concepts					
CollectionObjectGUID		Relates to one or more specimens (CollectionObject			

 		concept).			
Terms Common to All Concepts				
iDigBioProviderGUID		Relates this record to the organization that is the source of the record; thus considered the curator of the data. (Organization Concept). iDigBio Organization UUID for the time being. As efforts such as GBR becomes developed and as all contributors get registered at GBR or similar efforts, the contents of this term may change over time.		Collection GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
iDigBioPublisherGUID		Relates this record to the organization (Organization Concept) that is publishing the data on behalf of the source provider.		Publisher GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
ProviderCreatedByGUID		Relates this record to the original author of the record according to the provider (Person concept).		Creator GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
ProviderCreatedTimestamp		Date and time when the record was originally created on the provider data management		Created Date/Time	"2012-08-15T00:14:17.880Z"

		system.			
ProviderModifiedByGUID	dcterms:modified	Relates this record to the original author of the record modification according to the provider (Person concept).		Modified by GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
ProviderModifiedTimestamp		Date and time when the record was last modified on the provider data management system.	http://purl.org/dc/terms/modified	Modified Date/Time	"2012-08-15T00:14:17.880Z"
InformationWithheld	dwc:informationWithheld	Additional information that exists, but that has not been shared in the given record.	http://rs.tdwg.org/dwc/terms/informationWithheld	Information Withheld	"location information not given for endangered species", "collector identities withheld", "ask about tissue samples"
AttributionLogoURL	ac:attributionLogoURL	A URL providing access to a logo that symbolizes the attributed party (source). Implied from the collection profile when not explicitly provided.	http://rs.tdwg.org/ac/terms/attributionLogoURL	Attribution URL	"http://www.flmnh.ufl.edu/packages/flmnh_theme/themes/flmnh/css/images/xflmnh_logo.png.pagespeed.ic.TBE38Gm2Hy.png"
Rights	dc:rights	Information about rights held in and over the media resource, not over the media metadata text. A full-text, readable copyright statement, as required by the national legislation of the copyright holder. On collections, this	http://purl.org/dc/terms/rights	Copyright Statement	"CC-BY-SA XY 2008, some rights reserved", "CC-BY Museum X, University Y", "Public Domain"

		applies to all contained objects, unless the object itself has a different statement.Thus, implied from the collection profile when not explicitly provided.			
RightsOwner	dcterms:rightsHolder xmpRights:Owner cc:attributionName	Name(s) of the owners of the copyright; a "many" field. Implied from the collection profile when not explicitly provided.	http://purl.org/dc/terms/rightsHolder http://ns.adobe.com/xap/1.0/rights/Owner http://creativecommons.org/ns#attributionName	Copyright Owner	"John Doe", "Acme Inc.", "Biopix: JC Schou", "1998 California Academy of Sciences"
RightsLicense	xmpRights:UsageTerms	The license statement defining how resources may be used. Implied from the collection profile when not explicitly provided, and derived when using the ingestion appliance.	http://ns.adobe.com/xap/1.0/rights/UsageTerms	License Terms	"Public Domain","CC BY","CC BY-SA","CC BY-NC","CC BY-NC-SA"
RightsLicenseStatementUrl	xmpRights:WebStatement	A URL defining or further elaborating on the license statement (e. g., a web page explaining the precise terms of use). Must be consistent with "RightsLicense". Implied from the collection profile when not explicitly provided, and derived when using the ingestion	http://ns.adobe.com/xap/1.0/rights/WebStatement http://creativecommons.org/ns#License	License URL	"http://creativecommons.org/publicdomain/zero/1.0/","http://creativecommons.org/licenses/by/3.0/","http://creativecommons.org/licenses/by-sa/3.0/","http://creativecommons.org/licenses/by-nc/3.0/","http://creativecommons.org/licenses/by-nc-sa/3.0/"

		appliance.			
RightsLicenseLogoUrl	ac:licenseLogoURL	A URL providing access to a logo that symbolizes the License. Must be consistent with "RightsLicense". Implied from the collection profile when not explicitly provided, and derived when using the ingestion appliance.	http://rs.tdwg.org/ac/terms/licenseLogoURL	License Logo URL	"http://mirrors.creativecommons.org/presskit/buttons/80x15/png/publicdomain.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/cc-zero.png", "http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-sa.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-nc.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-nc-sa.png"
Terms Common to All Concepts and Automatically Entered by iDigBio					
uuid	dc:identifier dcterms:identifier	Unique identifier assigned to any new record into the system by iDigBio (iDigBio GUID).	http://purl.org/dc/elements/1.1/identifier http://purl.org/dc/terms/identifier	iDigBio GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"
etag		Version given to the record		iDigBio Version	380eca1760b662df022d5ff4acb0302889015a9"e"
iDigBioProvidedByGUID		Relates this record to the authenticated and authorized user (Person Concept) providing the new or modified data to		iDigBio Provided by GUID	"3c1dc496-e5c6-4849-b616-cada2896190d"

		iDigBio.			
dateModified	dcterms:modified	Date and time when the record was created or modified on iDigBio.	http://purl.org/dc/terms/ modified	iDigBio Provided Timestamp	"2012-08-15T00:14:17.880Z"
deleted		Deleted flag; indicates that the record has been removed by the provider. iDigBio will keep the information and not return in searches, unless explicitly requested.		iDigBio Deleted	"true","false"

Person					
iDigBio	**Standard(s)**	**Definition**	**References**	**User Interface Label**	**Examples**
PersonGUID	dc:identifier dcterms:identifier	GUID for information about a person.	http://purl.org/dc/elements /1.1/identifier http://purl.org/dc/terms/ide ntifier	Person GUID	"http://sweetgum.nybg.org/vh/perso n.php?irn=61043","3c1dc496-e5c6- 4849-b616-cada2896190d", "http://purl.oclc.org/net/edu.harvard .huh/guid/uuid/3f8c70aa-1862-4784- 8a53-f69ffe810fa0", "ids.valdosta.edu/vsc/ps/102"
FullName	foaf:name	Canonical form of the full name, in order, with prefixes and suffixes.	http://xmlns.com/foaf/spec/ #term_name	Full Name	"Dr. John Smith Jr."
FamilyName	foaf:familyName	Person's family name (same as last name).	RFC 2426 N Type http://xmlns.com/foaf/spec/ #term_familyName	Last Name	"Smith","Taylor"
GivenName	foaf:givenName	Person's given name (same as first name).	RFC 2426 N Type http://xmlns.com/foaf/spec/ #term_givenname	First Name	"John","Mary"
AdditionalNames		Person's additional names (e.g., middle names).	RFC 2426 N Type	Additional Names	"John"
HonorificPrefixes	foaf:title	Person's honorific prefixes.	RFC 2426 N Type http://xmlns.com/foaf/spec/ #term_title	Title	"Mr.","Dr.", "Sir"
HonorificSuffixes		Person's honorific sufixes.	RFC 2426 N Type	Suffix	"Jr.", "M.D.","A.C.P."
AlternativeNames	foaf:name	Person's alternative full names (e.g., before marriage, abbreviated, including nicknames).	http://xmlns.com/foaf/spec/ #term_name	Alternative Names	"Gil Nelson"
TaxonomicForm	foaf:name	Standardized form of name as used by a domain authority.	http://xmlns.com/foaf/spec/ #term_name	Taxonomic Author Form	"F.Muell.","Müll.Stuttg","E.Müll.","Fr ank Müller"
Nicknames	foaf:nick	Person's nicknames.	RFC 2426 Nickname Type http://xmlns.com/foaf/spec/ #term_nick	Nicknames	"Jim","Jimmie","Robbie"
DateOfBirth	bio:Birth	Person's date of birth. It should not	http://purl.org/vocab/bio/0. 1/Birth	Date of Birth	"1934","1850"

		be provided if the person did not authorize this information to be made public.			
DateOfDeath	bio:Death	Person's date of death.	http://purl.org/vocab/bio/0.1/Death	Date of Death	"1934","1850"
Email	foaf:mbox	Person's email. It should not be provided if the person did not authorize this information to be made public.	http://xmlns.com/foaf/spec/#term_mbox	Email	"person@example.com"
Address		Person's work address for contact. It should not be provided if the person did not authorize this information to be made public.		Address	"Main Street, City, 12345, USA"
Phone		Person's work phone number. It should not be provided if the person did not authorize this information to be made public.		Phone Number	"1-555-555-5555"
CurrentJobTitle		Person's current job titles.		Job Title	"Collection Manager"
PastJobTitle		Person's past job titles.		Last Job Title	"Collection Assistant"
Interest	foaf:topic_interest	Person's interests.	http://xmlns.com/foaf/spec/#term_topic_interest	Interests	
Specialty	foaf:topic_interest	Person's specialties.	http://xmlns.com/foaf/spec/#term_topic_interest	Role	"collector","collection manager", "taxonomist", "georeferencer", "data enterer"
SpecialtyRanking		Person's ranking for the related specialty.		Role Rank	"novice","amateur","trained","trainer","expert"

PersonRemarks	skos:note	Additional remarks about the person's information. Consultation with MISC about the possibility of creating new terms to accommodate the information being captured in this term is encouraged.	http://www.w3.org/2009/08/skos-reference/skos.html#not	Remarks	
AlternativePersonGUID		Alternative GUIDs assigned by other sources.		Alternative GUIDs	"http://sweetgum.nybg.org/vh/person.php?irn=61043", "http://purl.oclc.org/net/edu.harvard.huh/guid/uuid/3f8c70aa-1862-4784-8a53-f69ffe810fa0"
Relationships to Other Concepts					
CollectionDirectorGUID		Relates to a collection as a director (Collection concept).			
CollectionCuratorGUID		Relates to a collection as a curator (Collection concept).			
CollectionManagerGUID		Relates to a collection as a manager (Collection concept).			
CollectionTechnicianGUID		Relates to a collection as a technical contact (Collection concept).			
ExpertInTaxonGUID		Relates to taxon as expert (Taxon concept).			
AuthorOfTaxonGUID		Relates to taxon as the author of the name (Taxon			

		concept).			
CollectionObjectDeterminerGUID		Relates to collection objects as a taxon determiner (CollectionObject concept).			
CollectionObjectCollectorGUID		Relates to a specimen as a collector (CollectionObject concept).			
Terms Common to All Concepts					
iDigBioProviderGUID		Relates this record to the organization that is the source of the record; thus considered the curator of the data. (Organization Concept). iDigBio Organization UUID for the time being. As efforts such as GBR becomes developed and as all contributors get registered at GBR or similar efforts, the contents of this term may change over time.		Collection GUID	3c1dc496-e5c6-4849-b616-cada2896190d
iDigBioPublisherGUID		Relates this record to the organization (Organization Concept) that is publishing the data on behalf of the source provider.		Publisher GUID	3c1dc496-e5c6-4849-b616-cada2896190d

ProviderCreatedByGUID		Relates this record to the original author of the record according to the provider (Person concept).		Creator GUID	3c1dc496-e5c6-4849-b616-cada2896190d
ProviderCreatedTimestamp		Date and time when the record was originally created on the provider data management system.		Created Date/Time	2012-08-15T00:14:17.880Z
ProviderModifiedByGUID	dcterms:modified	Relates this record to the original author of the record modification according to the provider (Person concept).		Modified by GUID	3c1dc496-e5c6-4849-b616-cada2896190d
ProviderModifiedTimestamp		Date and time when the record was last modified on the provider data management system.	http://purl.org/dc/terms/modified	Modified Date/Time	2012-08-15T00:14:17.880Z
InformationWithheld	dwc:informationWithheld	Additional information that exists, but that has not been shared in the given record.	http://rs.tdwg.org/dwc/terms/informationWithheld	Information Withheld	location information not given for endangered species, "collector identities withheld", "ask about tissue samples"
AttributionLogoURL	ac:attributionLogoURL	A URL providing access to a logo that symbolizes the attributed party (source). Implied from the collection profile when not explicitly provided.	http://rs.tdwg.org/ac/terms/attributionLogoURL	Attribution URL	"http://www.flmnh.ufl.edu/packages/flmnh_theme/themes/flmnh/css/images/xflmnh_logo.png.pagespeed.ic.TBE38Gm2Hy.png"
Rights	dcterms:rights	Information about rights held in and over the data resource. A full-text,	http://purl.org/dc/terms/rights	Copyright Statement	"CC-BY-SA XY 2008, some rights reserved", "CC-BY Museum X, University Y", "Public Domain"

		readable copyright statement, as required by the national legislation of the copyright holder. On collections, this applies to all contained objects, unless the object itself has a different statement. Thus, implied from the collection profile when not explicitly provided.			
RightsOwner	dcterms:rightsHolder xmpRights:Owner cc:attributionName	Name(s) of the owners of the copyright; a "many" field. Implied from the collection profile when not explicitly provided.	http://purl.org/dc/terms/rightsHolder http://ns.adobe.com/xap/1.0/rights/Owner http://creativecommons.org/ns#attributionName	Copyright Owner	"John Doe", "Acme Inc.", "Biopix: JC Schou", "1998 California Academy of Sciences"
RightsLicense	xmpRights:UsageTerms	The license statement defining how the resource may be used. Implied from the collection profile when not explicitly provided.	http://ns.adobe.com/xap/1.0/rights/UsageTerms	License Terms	"Public Domain","CC BY","CC BY-SA","CC BY-NC","CC BY-NC-SA"
RightsLicenseStatementUrl	xmpRights:WebStatement cc:License	A URL defining or further elaborating on the license statement (e. g., a web page explaining the precise terms of use). Must be consistent with "RightsLicense". Implied from the	http://ns.adobe.com/xap/1.0/rights/WebStatement http://creativecommons.org/ns#License	License URL	http://creativecommons.org/publicdomain/zero/1.0/,"http://creativecommons.org/licenses/by/3.0/","http://creativecommons.org/licenses/by-sa/3.0/","http://creativecommons.org/licenses/by-nc/3.0/","http://creativecommons.org/licenses/by-nc-sa/3.0/"

		collection profile when not explicitly provided.			
RightsLicenseLogoUrl	ac:licenseLogoURL	A URL providing access to a logo that symbolizes the License. Must be consistent with "RightsLicense". Implied from the collection profile when not explicitly provided.	http://rs.tdwg.org/ac/terms/licenseLogoURL	License Logo URL	http://mirrors.creativecommons.org/presskit/buttons/80x15/png/publicdomain.png,"http://mirrors.creativecommons.org/presskit/buttons/80x15/png/cc-zero.png", "http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-sa.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-nc.png","http://mirrors.creativecommons.org/presskit/buttons/80x15/png/by-nc-sa.png"
Terms Common to All Concepts and Automatically Entered by iDigBio					
uuid	dc:identifier dcterms:identifier	Unique identifier assigned to any new record into the system by iDigBio (iDigBio GUID).	http://purl.org/dc/elements/1.1/identifier http://purl.org/dc/terms/identifier	iDigBio GUID	3c1dc496-e5c6-4849-b616-cada2896190d
etag		Version given to the record		iDigBio Version	380eca1760b662df022d5ff4acb0302889015a9"e"
iDigBioProvidedByGUID		Relates this record to the authenticated and authorized user (Person Concept) providing the new or modified data to iDigBio.		iDigBio Provided by GUID	3c1dc496-e5c6-4849-b616-cada2896190d
dateModified	dcterms:modified	Date and time when the record was created or modified on iDigBio.	http://purl.org/dc/terms/modified	iDigBio Provided Timestamp	2012-08-15T00:14:17.880Z
deleted		Deleted flag; indicates that the record has been		iDigBio Deleted	true,"false"

		removed by the provider. iDigBio will keep the information and not return in searches, unless explicitly requested.			