Specify Data Model

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About the Model

This diagram presents a curated selection of Specify collection data tables, excluding deprecated tables and application infrastructure. Agent represents people, groups, and organizations; attachment link tables associate media and documents with records. Many cross-group links to shared tables are omitted for clarity, while principal attachment paths remain. Displayed relationship rows identify related models even when lines are omitted; audit and inverse relationships are excluded. Division, Discipline, and Collection links describe data scope. Parent-child relationships build hierarchies in Taxon, Storage, Geography, Chronostrat, and Lithostrat. Arrows point to related tables without showing cardinality; bold lines emphasize principal collection relationships.

Specify Collections Consortium

The Specify Collections Consortium (SCC), founded in 2018, is a collaborative, open-source software community of engaged collection institutions with a vision to advance research and education uses of biological specimen and sample information. A Board of Members, along with User and Technology Advisory Committees drawn from member institutions, governs the Consortium and determine its software and technical service priorities. The Consortium advances the interests of its members through engineering, deployment, and support of software technologies that facilitate the creation, curation, discovery, and scientific utilization of the information and knowledge associated with biological collections.

Institution & Collections

Collection
Defines a collection within a Discipline, grouping Collection Objects of the same type (e.g., 'Birds', 'Insects', 'Paleobotany'). Each collection has its own catalog numbering and default preparation types.

*userGroupScopeId	Integer
catalogNumFormatName	Text
code	Text
collectionName	Text
collectionType	Text
dbContentVersion	Text
description	Text
developmentStatus	Text
estimatedSize	Integer
guid	Text
institutionType	Text
isEmbeddedCollectingEvent	Boolean
isNumeric	Text
kingdomCoverage	Text
preservationMethodType	Text
primaryFocus	Text
primaryPurpose	Text
regNumber	Text
remarks	Text
scope	Text
webPortalURI	Text
webSiteURI	Text
administrator	Agent
discipline	Discipline
institutionNetwork	Institution
collectionObjectType	CollectionObjectType

Division
A division or department within an Institution (e.g., 'Vertebrate Zoology', 'Botany'). Contains Agents and may oversee multiple Disciplines.

*userGroupScopeId	Integer
abbrev	Text
altName	Text
description	Text
discipline	Text
iconURI	Text
name	Text
regNumber	Text
remarks	Text
uri	Text
address	Address
institution	Institution

Discipline
Organizational unit that may contain one or more Collections sharing the same Taxon, Geography, Lithostratigraphy, and Chronostratigraphy trees, as well as shared Localities, Agents, and Determination statuses.

*userGroupScopeId	Integer
isPaleoContextEmbedded	Boolean
name	Text
paleoContextChildTable	Text
regNumber	Text
type	Text
dataType	DataType
division	Division
geographyTreeDef	GeographyTreeDef
taxonTreeDef	TaxonTreeDef
geologicTimePeriodTreeDef	GeologicTimePeriodTreeDef
lithoStratTreeDef	LithoStratTreeDef
tectonicUnitTreeDef	TectonicUnitTreeDef

Institution
The top-level organization (e.g., museum, university) that owns the collections. An Institution contains one or more Divisions.

*userGroupScopeId	Integer
altName	Text
code	Text
copyright	Text
currentManagedRelVersion	Text
currentManagedSchemaVersion	Text
description	Text
disclaimer	Text
guid	Text
hasBeenAsked	Boolean
iconURI	Text
ip	Text
isAccessionsGlobal	Boolean
isAnonymous	Boolean
isReleaseManagedGlobally	Boolean
isSecurityOn	Boolean
isServerBased	Boolean
isSharingLocalities	Boolean
isSingleGeographyTree	Boolean
license	Text
lsidAuthority	Text
minimumPwdLength	Byte
name	Text
regNumber	Text
remarks	Text
termsOfUse	Text
uri	Text
address	Address
storageTreeDef	StorageTreeDef

InstitutionNetwork
Records affiliations or partnerships between Institutions (e.g., consortium memberships, collaborative agreements).

*institutionNetworkId	Integer
altName	Text
code	Text
copyright	Text
description	Text
disclaimer	Text
iconURI	Text
ip	Text
license	Text
name	Text
remarks	Text
termsOfUse	Text
uri	Text
address	Address

Collecting Events & Trips

CollectingEvent
Captures the 'when' and 'how' of a collection: the date(s), time, method, collectors, and field number. Links to a Locality for the 'where'. Some disciplines identify events by field number, others by locality+date combination.

*collectingEventId	Integer
collectingTripName	Text
cruise	Text
date1 - date2	Date
endDate	Date
endDateVerbatim	Text
endTime	Short
guid	Text
integer1 - integer2	Integer
method	Text
remarks	Text
reservedInteger3 - reservedInteger4	Integer
reservedText1 - reservedText2	Text
sgrStatus	Byte
startDate	Date
startDateVerbatim	Text
startTime	Short
stationFieldNumber	Text
stationFieldNumberModifier1 - stationFieldNumberModifier3	Text
text1 - text8	Text
yesNo1 - yesNo2	Boolean
agent1 - agent2	Agent
collectingTripAttribute	CollectingTripAttribute
uniqueIdentifier	Text
visibility	Byte
collectingEventAttribute	CollectingEventAttribute
collectingTrip	CollectingTrip
discipline	Discipline
locality	Locality
paleoContext	PaleoContext
visibilitySetBy	SpecifyUser

CollectingTrip
Groups multiple Collecting Events into an expedition or field trip. Tracks the trip's start/end dates, participants, and purpose.

*collectingTripId	Integer
collectingTripName	Text
cruise	Text
date1 - date2	Date
endDate	Date
endDateVerbatim	Text
endTime	Short
exsiccataName	Text
number1 - number2	Integer
remarks	Text
sponsor	Text
startDate	Date
startDateVerbatim	Text
startTime	Short
text1 - text9	Text
vessel	Text
yesNo1 - yesNo2	Boolean
agent1 - agent2	Agent
collectingTripAttribute	CollectingTripAttribute
discipline	Discipline

CollectingTripAttachment
Links digital files (trip reports, maps, permits) to a Collecting Trip record.

*collectingTripAttachmentId	Integer
collectionMemberId	Integer
ordinal	Integer
remarks	Text
attachment	Attachment
collectingTrip	CollectingTrip

CollectingTripAttribute
Stores values for user-customizable attributes linked to a Collecting Trip, supporting flexible data capture beyond the standard schema.

*collectingTripAttributeId	Integer
integer1 - integer10	Integer
number1 - number13	Decimal
remarks	Text
text1 - text17	Text
yesNo1 - yesNo5	Boolean
discipline	Discipline

CollectingTripAuthorization
Records authorization for a Collecting Trip, linking to a Permit that authorizes the overall expedition.

*collectingTripAuthorizationId	Integer
remarks	Text
collectingTrip	CollectingTrip
permit	Permit

FundingAgent
Links a funding agency (Agent) to a Collecting Trip or Project, recording the grant or funding source that supported the work.

*fundingAgentId	Integer
isPrimary	Boolean
orderNumber	Integer
remarks	Text
agent	Agent
collectingTrip	CollectingTrip
division	Division

CollectingEventAttachment
Links digital files (field photos, maps, audio recordings) to a Collecting Event, with ordinal for ordering.

*collectingEventAttachmentId	Integer
collectionMemberId	Integer
ordinal	Integer
remarks	Text
attachment	Attachment
collectingEvent	CollectingEvent

CollectingEventAttr
Stores values for user-customizable attributes defined by an AttributeDef, linked to a Collecting Event. Supports string and numeric value types.

*attrId	Integer
collectionMemberId	Integer
dblValue	Double
strValue	Text
collectingEvent	CollectingEvent
definition	AttributeDef

CollectingEventAttribute
A one-to-one extension table for Collecting Events, providing additional user-customizable attribute fields beyond the standard schema.

*collectingEventAttributeId	Integer
integer1 - integer10	Integer
number1 - number13	Decimal
remarks	Text
text1 - text17	Text
yesNo1 - yesNo5	Boolean
discipline	Discipline
hostTaxon	Taxon

CollectingEventAuthorization
Records authorization for a Collecting Event, typically linking to a Permit that grants permission to collect at a specific time and place.

*collectingEventAuthorizationId	Integer
remarks	Text
collectingEvent	CollectingEvent
permit	Permit

Collector
Join table linking an Agent (as collector) to a Collecting Event, with an ordinal field for listing multiple collectors in sequence.

*collectorId	Integer
isPrimary	Boolean
orderNumber	Integer
remarks	Text
text1 - text2	Text
yesNo1 - yesNo2	Boolean
agent	Agent
collectingEvent	CollectingEvent
division	Division

Tissues, Samples & DNA

Extractor
Links an Agent to a DNA Sequence record as the person who performed the extraction, with an order field for multiple extractors.

*extractorId	Integer
orderNumber	Integer
remarks	Text
text1 - text2	Text
yesNo1 - yesNo2	Boolean
agent	Agent
dnaSequence	DNASequence

MaterialSample
Object for a material sample taken from a Collection Object for analysis (e.g., a tissue sample for DNA, a rock sample for geochemistry).

*materialSampleId	Integer
GGBN_absorbanceRatio260_230	Decimal
GGBN_absorbanceRatio260_280	Decimal
GGBN_absorbanceRatioMethod	Text
GGBN_concentration	Decimal
GGBN_concentrationUnit	Text
GGBN_materialSampleType	Text
GGBN_medium	Text
GGBN_purificationMethod	Text
GGBN_quality	Text
GGBN_qualityCheckDate	Date
GGBN_qualityRemarks	Text
GGBN_sampleDesignation	Text
GGBN_sampleSize	Decimal
GGBN_volume	Decimal
GGBN_volumeUnit	Text
GGBN_weight	Decimal
GGBN_weightMethod	Text
GGBN_weightUnit	Text
collectionMemberId	Integer
extractionDate	Date
guid	Text
integer1 - integer2	Integer
number1 - number2	Decimal
remarks	Text
reservedInteger3 - reservedInteger4	Integer
reservedNumber3 - reservedNumber4	Decimal
reservedText3 - reservedText4	Text
scaBiDObjectID	Text
scaBioSampleID	Text
scaProjectID	Text
scaSampleID	Text
text1 - text2	Text
uri	Text
workDate	Date
yesNo1 - yesNo2	Boolean
containedRFParent	ReferenceWork
institution	Institution
journal	Journal

Author
Links an Agent as an author to a Reference Work, with an order number to specify the author sequence (first author, second author, etc.).

*authorId	Integer
orderNumber	Short
agent	Agent
referenceWork	ReferenceWork

ReferenceWorkAttachment
Links digital files (PDFs, scans) to a Reference Work record.

*referenceWorkAttachmentId	Integer
ordinal	Integer
remarks	Text
attachment	Attachment
referenceWork	ReferenceWork

VoucherRelationship
Links a voucher specimen (Collection Object) to a taxon concept or DNA sequence, establishing the specimen as the physical voucher for that identification or genetic data.

*voucherRelationshipId	Integer
collectionCode	Text
collectionMemberId	Integer
institutionCode	Text
integer1 - integer3	Integer
number1 - number3	Decimal
remarks	Text
text1 - text3	Text
urlLink	Text
voucherNumber	Text
yesNo1 - yesNo3	Boolean
collectionObject	CollectionObject

Taxa & Determinations

Determination
Also called an Identification. Records the taxonomic name assigned to a Collection Object, including the determiner, determination date, confidence qualifiers (cf., aff., ?), type status, and remarks. A Collection Object can have a history of multiple determinations over time.

*determinationId	Integer
addendum	Text
alternateName	Text
collectionMemberId	Integer
confidence	Text
determinedDate	Date
featureOrBasis	Text
guid	Text
integer1 - integer5	Integer
isCurrent	Boolean
method	Text
nameUsage	Text
number1 - number5	Decimal
qualifier	Text
remarks	Text
subSpQualifier	Text
typeStatusName	Text
verbatimDate	Text
yesNo1 - yesNo5	Boolean
collectionObject	CollectionObject
determiner	Agent
preferredTaxon	Taxon
taxon	Taxon

DeterminationCitation
Links a Reference Work to a Determination, citing the publication used to make the identification.

*determinationCitationId	Integer
collectionMemberId	Integer
figureNumber	Text
isFigured	Boolean
pageNumber	Text
plateNumber	Text
remarks	Text
determination	Determination
referenceWork	ReferenceWork

Determiner
Join table linking an Agent (as determiner) to a Determination, with an order field for listing multiple determiners in sequence.

*determinerId	Integer
isPrimary	Boolean
orderNumber	Integer
determination	Determination
agent	Agent

Taxon
Hierarchical tree representing the taxonomic classification of organisms (Kingdom > Phylum > Class > Order > Family > Genus > Species) used for determinations and organizing collection objects.

*taxonId	Integer
author	Text
citesStatus	Text
colStatus	Text
commonName	Text
cultivarName	Text
environmentalProtectionStatus	Text
esaStatus	Text
fullName	Text
groupNumber	Text
guid	Text
highestChildNodeNumber	Integer
integer1 - integer5	Integer / Long
isAccepted	Boolean
isHybrid	Boolean
isNonAuthor	Text
labelFormat	Text
lsid	Text
name	Text
ncbiTaxonNumber	Text
nodeNumber	Integer
number1 - number5	Decimal / Integer
rankId	Integer
remarks	Text
source	Text
taxonomicSerialNumber	Text
text1 - text20	Text
unitInd1 - unitInd4	Text
unitName1 - unitName4	Text
usfwsCode	Text
visibility	Byte
yesNo1 - yesNo19	Boolean
acceptedTaxon	Taxon
definition	TaxonTreeDef
definitionItem	TaxonTreeDefItem
hybridParent1 - hybridParent2	Taxon
parent	Taxon
taxonAttribute	TaxonAttribute
visibilitySetBy	SpecifyUser

CommonNameTx
Stores common (vernacular) names for a Taxon, with localization support including language, country, and variant information.

*commonNameTxId	Integer
author	Text
country	Text
language	Text
name	Text
variant	Text
taxon	Taxon

CommonNameTxCitation
Links a Reference Work to a Common Name record, citing the source where the common name was published or used.

*commonNameTxCitationId	Integer
figureNumber	Text
isFigured	Boolean
pageNumber	Text
plateNumber	Text
text1 - text2	Text
yesNo1 - yesNo2	Boolean
commonNameTx	CommonNameTx
referenceWork	ReferenceWork

TaxonAttachment
Links digital files (illustrations, distribution maps) to a Taxon record.

*taxonAttachmentId	Integer
ordinal	Integer
remarks	Text
attachment	Attachment
taxon	Taxon

TaxonAttribute
Stores additional attributes or properties for a Taxon (e.g., author citation, publication year, common characteristics).

*taxonAttributeId	Integer
date1	Date
number1 - number20	Decimal
remarks	Text
text1 - text58	Text
yesNo1 - yesNo82	Boolean
agent1	Agent

TaxonCitation
Links a Reference Work to a Taxon record, citing the publication where the taxon was described or revised.

*taxonCitationId	Integer
figureNumber	Text
isFigured	Boolean
number1 - number2	Decimal
pageNumber	Text
plateNumber	Text
remarks	Text
text1 - text2	Text
yesNo1 - yesNo2	Boolean
referenceWork	ReferenceWork
taxon	Taxon

Agents: People & Groups

Agent
Central directory of people, groups, and organizations involved in the collection process. Roles include collector, determiner, preparer, cataloger, donor, permit issuer, and more. Supports both individuals (with name components) and organizations.

*agentId	Integer
abbreviation	Text
agentType	Byte
date1 - date2	Date
dateOfBirth	Date
dateOfDeath	Date
dateType	Byte
email	Text
firstName	Text
guid	Text
initials	Text
integer1 - integer2	Integer
interests	Text
jobTitle	Text
lastName	Text
middleInitial	Text
remarks	Text
suffix	Text
text1 - text5	Text
title	Text
url	Text
verbatimDate1 - verbatimDate2	Text
collContentContact	Collection
collTechContact	Collection
division	Institution
instContentContact	Institution
instTechContact	Institution
organization	Agent
specifyUser	SpecifyUser

Address
Stores the postal address of an Agent (person or organization), including street, city, state, country, postal code, phone, and fax. Also captures the date range the agent was at that address and the position they held there.

*addressId	Integer
address	Text
address2 - address5	Text
city	Text
country	Text
endDate	Date
fax	Text
isCurrent	Boolean
isPrimary	Boolean
isShipping	Boolean
ordinal	Integer
phone1 - phone2	Text
positionHeld	Text
postalCode	Text
remarks	Text
roomOrBuilding	Text
startDate	Date
state	Text
typeOfAddr	Text
agent	Agent

AddressOfRecord
Captures the legal address associated with an Accession, Loan, Exchange, or Repository Agreement at the time the transaction took place.

*addressOfRecordId	Integer
address	Text
address2	Text
city	Text
country	Text
postalCode	Text
remarks	Text
state	Text
agent	Agent

AgentAttachment
Links digital files (photos, documents) to an Agent record, such as a portrait of a collector or a researcher's CV.

*agentAttachmentId	Integer
ordinal	Integer
remarks	Text
agent	Agent
attachment	Attachment

AgentGeography
Records the geographic region(s) an Agent was active in, with an optional role (e.g., author, collector).

*agentGeographyId	Integer
remarks	Text
role	Agent
agent	Agent
geography	Geography

AgentIdentifier
Stores external identifiers for an Agent, such as ORCID, ResearcherID, Scopus ID, or Wikidata ID, enabling integration with external authority systems.

*agentIdentifierId	Integer
date1 - date2	Date
identifier	Text
identifierType	Text
remarks	Text
text1 - text5	Text
yesNo1 - yesNo5	Boolean
agent	Agent

AgentSpecialty
Records the taxonomic or disciplinary specialty of an Agent (e.g., 'Coleoptera', 'Marine Invertebrates'), with an order number for ranking primary vs. secondary specialties.

*agentSpecialtyId	Integer
orderNumber	Integer
specialtyName	Text
agent	Agent

AgentVariant
Captures variant and vernacular names for an Agent, primarily for botanists. Includes language, country, and a type flag distinguishing variants from vernacular names.

*agentVariantId	Integer
country	Text
language	Text
name	Text
varType	Byte
variant	Text
agent	Agent

GroupPerson
Join table for hierarchical Agent relationships, linking member Agents to parent organization Agents (e.g., a department within a university). Provides ordering.

*groupPersonId	Integer
orderNumber	Short
remarks	Text
division	Division
group	Agent
member	Agent

Localities & Geography

Locality
Defines the 'where' of a collection: the specific place name, geographic coordinates (point, line, or polygon), coordinate determination method, datum, and elevation/depth. The foundation for georeferencing specimens.

*localityId	Integer
datum	Text
elevationAccuracy	Text
elevationMethod	Text
gml	Text
guid	Text
lat1text	Text
lat2text	Text
latLongAccuracy	Text
latLongMethod	Text
latLongType	Text
latitude1 - latitude2	Decimal
localityName	Text
long1text	Text
long2text	Text
longitude1 - longitude2	Decimal
maxElevation	Decimal
minElevation	Text
namedPlace	Text
originalElevationUnit	Text
originalLatLongUnit	Text
relationToNamedPlace	Text
remarks	Text
sgrStatus	Text
shortName	Text
srcLatLongUnit	Text
text1 - text5	Text
uniqueIdentifier	Text
verbatimElevation	Text
verbatimLatitude	Text
verbatimLongitude	Text
visibility	Byte
yesNo1 - yesNo5	Boolean
discipline	Discipline
geography	Geography
paleoContext	PaleoContext
visibilitySetBy	SpecifyUser

GeoCoordDetail
Stores additional georeferencing details for a Locality, originally designed for MANIS (Mammal Networked Information System) data compatibility.

*geoCoordDetailId	Integer
errorPolygon	Text
georefAccuracy	Decimal
georefAccuracyUnits	Text
georefCompiledDate	Date
georefDetDate	Date
georefDetRef	Text
georefRemarks	Text
georefVerificationStatus	Text
maxUncertaintyEst	Integer
maxUncertaintyEstUnit	Integer
namedPlaceExtent	Decimal
nsGeoRefBecause	Text
number1 - number5	Decimal
protocolSystem	Text
protocol	Text
source	Text
text1 - text5	Text
uncertaintyPolygon	Text
validation	Text
yesNo1 - yesNo5	Boolean
georefCompiledBy	Agent
georefDetBy	Agent
locality	Locality

LatLonPolygon
Stores a geographic polygon (e.g., a collecting area boundary or protected area) defined by a series of latitude/longitude points.

*latLonPolygonId	Integer
description	Text
isPolyline	Boolean
name	Text
locality	Locality
visualQuery	SpVisualQuery

LatLonPolygonPnt
Stores individual latitude/longitude points that make up a LatLonPolygon, with sequence order.

*latLonPolygonPntId	Integer
altitude	Decimal
latitude	Decimal
longitude	Decimal
ordinal	Integer
latLonPolygon	LatLonPolygon

LocalityAttachment
Links digital files (maps, site photos) to a Locality record.

*localityAttachmentId	Integer
ordinal	Integer
remarks	Text
attachment	Attachment
locality	Locality

LocalityCitation
Links a Reference Work to a Locality, citing a publication that describes or mentions the locality.

*localityCitationId	Integer
figureNumber	Text
isFigured	Boolean
pageNumber	Text
plateNumber	Text
remarks	Text
locality	Locality
referenceWork	ReferenceWork

LocalityDetail
Stores additional locality information such as water body, island group, UTM coordinates, and other supplementary geographic details.

*localityDetailId	Integer
baseMeridian	Text
drainage	Text
endDepth	Decimal
endDepthUnit	Text
endDepthVerbatim	Text
gml	Text
hucCode	Text
island	Text
islandGroup	Text
mgrsZone	Text
nationalParkName	Text
number1 - number5	Decimal
paleoLat	Text
paleoLng	Text
rangeDirection	Text
rangeDirection	Text
section	Text
sectionPart	Text
startDepth	Decimal
startDepthUnit	Text
startDepthVerbatim	Text
text1 - text5	Text
township	Text
townshipDirection	Text
utmDatum	Text
utmEasting	Text
utmFalseEasting	Text
utmFalseNorthing	Text
utmNorthing	Text
utmOrigLatitude	Text
utmOrigLongitude	Text
utmZone	Text
waterBody	Text
yesNo1 - yesNo5	Boolean
locality	Locality

LocalityNameAlias
Stores alternate names or spellings for a Locality (e.g., historical names, variant spellings in different languages).

*localityNameAliasId	Integer
name	Text
source	Text
discipline	Discipline
locality	Locality

Geography
Hierarchical tree representing political boundaries (Country, State, Province, County, Township, etc.). Used to classify localities and agent collecting regions.

*geographyId	Integer
abbrev	Text
centroidLat	Decimal
centroidLon	Decimal
commonName	Text
fullName	Text
geographyCode	Text
gml	Text
guid	Text
highestChildNodeNumber	Integer
isAccepted	Boolean
isCurrent	Boolean
name	Text
nodeNumber	Integer
number1 - number2	Integer
rankId	Integer
remarks	Text
text1 - text2	Text
timestampVersion	java.util.Date
acceptedGeography	Geography
definition	GeographyTreeDef
definitionItem	GeographyTreeDefItem
parent	Geography

Specimens & Preparations

CollectionObject
The central record in Specify, representing any item in a collection: physical specimen, lot, observation, sound recording, slide, tissue sample, or extract. Ties together all related information (determinations, preparations, attachments, loans, etc.).

*collectionObjectId	Integer
altCatalogNumber	Text
availability	Text
proportion	Text
uniqueIdentifier	Text
text1 - text6	Text
yesNo1 - yesNo6	Boolean
integer1 - integer6	Integer
number1 - number6	Decimal
identifiedDate	Date
collectionObject	CollectionObject
name	Taxon
identifiedBy	Agent
type	CollectionObjectType

OtherIdentifier
Stores an identifier (catalog number or other ID) assigned to a specimen by another institution, enabling cross-referencing between collections.

*otherIdentifierId	Integer
collectionMemberId	Integer
date1 - date2	Date
identifier	Text
institution	Text
remarks	Text
text1 - text5	Text
yesNo1 - yesNo5	Boolean
agent1 - agent2	Agent
collectionObject	CollectionObject

Exsiccata
Records an exsiccata series—a published, numbered set of preserved specimens distributed to institutions. Common in botany and mycology.

*exsiccataId	Integer
remarks	Text
schedae	Text
title	Text
referenceWork	ReferenceWork

ExsiccataItem
Links a specific Collection Object to an Exsiccata series, recording its number within the series.

*exsiccataItemId	Integer
fascicle	Text
number	Text
collectionObject	CollectionObject
exsiccata	Exsiccata

PrepType
Defines the types of Preparations available in a collection (e.g., 'Cleared and Stained', 'Skeleton', 'Frozen Tissue', 'Microscope Slide', 'Skeleton').

*prepTypeId	Integer
isLoanable	Boolean
name	Text
collection	Collection

AttributeDef
Defines a custom attribute field that can be applied to Collection Objects, Collecting Events, or Preparations. Specifies the data type, field name, and which Prep Type it applies to.

*attributeDefId	Integer
fieldName	Text
tableType	Short
discipline	Discipline
prepType	PrepType

CollectionRelType
Defines the types of relationships that can exist between Collection Objects (e.g., 'voucher for', 'parasite of', 'host to', 'derived from').

*collectionRelTypeId	Integer
name	Text
leftSideCollection	Collection
rightSideCollection	Collection

CollectionObjectAttachment
Links digital files (specimen photos, X-rays, field notes) to a Collection Object, with ordinal for ordering.

*collectionObjectAttachmentId	Integer
collectionMemberId	Integer
ordinal	Integer
remarks	Text
attachment	Attachment
collectionObject	CollectionObject

CollectionObjectAttr
Stores values for user-customizable attributes defined by an AttributeDef, linked to a Collection Object. Supports string and numeric value types.

*attrId	Integer
collectionMemberId	Integer
dblValue	Double
strValue	Text
collectionObject	CollectionObject
definition	AttributeDef

CollectionObjectAttribute
A one-to-one extension table for Collection Objects, providing additional user-customizable attribute fields beyond the standard schema.

*collectionObjectAttributeId	Integer
bottomDistance	Decimal
collectionMemberId	Integer
date1	Date
direction	Text
distanceUnits	Text
integer1 - integer10	Integer
number1 - number42	Decimal / Integer
remarks	Text
text1 - text40	Text
yesNo1 - yesNo20	Boolean
agent1	Agent

CollectionObjectCitation
Links a Reference Work (publication) to a Collection Object or Taxon, with optional figure, plate, and page numbers for citation details.

*collectionObjectCitationId	Integer
collectionMemberId	Integer
figureNumber	Text
isFigured	Boolean
pageNumber	Text
plateNumber	Text
remarks	Text
collectionObject	CollectionObject
referenceWork	ReferenceWork

CollectionObjectGroup
Groups multiple Collection Objects together for a specific purpose (e.g., a type series, a teaching collection, or a loan set). Uses CollectionObjectGroupType to define the grouping category.

*collectionObjectGroupId	Integer
name	Text
description	Text
igsn	Text
guid	Text
text1 - text3	Text
integer1 - integer3	Integer
number1 - number3	Decimal
yesno1 - yesno3	Boolean
collection	CollectionObjectGroupType
cogType	CollectionObjectGroupType
parentCog	CollectionObjectGroup

CollectionObjectGroupJoin
Join table linking Collection Objects to Collection Object Groups, enabling many-to-many relationships between objects and groups.

*collectionObjectGroupJoinId	Integer
isPrimary	Boolean
isSubstrate	Boolean
precedence	Integer
text1 - text3	Text
integer1 - integer3	Integer
yesno1 - yesno3	Boolean
childCog	CollectionObjectGroup
childCo	CollectionObject
parentCog	CollectionObjectGroup

CollectionObjectGroupType
Defines the types or categories of Collection Object Groups (e.g., 'Type Series', 'Teaching Collection', 'Exhibit').

*cogTypeId	Integer
name	Text
type	Text
collection	Collection

CollectionObjectProperty
Stores additional properties or measurements for a Collection Object, such as weight, length, or other quantitative attributes.

*collectionObjectPropertyId	Integer
collectionMemberId	Integer
date1 - date20	Date
guid	Text
integer1 - integer30	Integer / Short
number1 - number30	Decimal
remarks	Text
text1 - text40	Text
yesNo1 - yesNo20	Boolean
agent1 - agent20	Agent
collectionObject	CollectionObject

CollectionObjectType
Categorizes Collection Objects by their type (e.g., 'Fish', 'Observation', 'Tissue Sample', 'DNA Extract', 'Sound Recording').

*collectionObjectTypeId	Integer
name	Text
text1 - text3	Text
catalogNumberFormatName	Text
collection	Collection
taxonTreeDef	TaxonTreeDef

CollectionRelationship
Links two Collection Objects to each other, defining a relationship between them (e.g., voucher specimen to tissue sample, host to parasite, parent to offspring).

*collectionRelationshipId	Integer
text1 - text2	Text
collectionRelType	CollectionRelType
leftSide	CollectionObject
rightSide	CollectionObject

Component
Represents a component part of a Collection Object, often featuring a unique number and/or taxonomic identification, with associated metadata like preparation, role, and identifiers.

*componentId	Integer
catalogNumber	Text
verbatimName	Text
role	Text
proportion	Text
uniqueIdentifier	Text
text1 - text6	Text
yesNo1 - yesNo6	Boolean
integer1 - integer6	Integer
number1 - number6	Decimal
identifiedDate	Date
collectionObject	CollectionObject
name	Taxon
identifiedBy	Agent
type	CollectionObjectType

Preparation
Represents the distinct physical components of a Collection Object (e.g., skin, skeleton, tissue, slide, fluid-preserved jar). Supports assessible attributes and properties. A single Collection Object can have multiple Preparations.

*preparationId	Integer
barCode	Text
collectionMemberId	Integer
countAmt	Integer
date1 - date4	Date
description	Text
guid	Text
integer1 - integer2	Integer
number1 - number2	Decimal
preparedDate	Date
remarks	Text
reservedInteger3 - reservedInteger4	Integer
sampleNumber	Text
status	Text
storageLocation	Text
text1 - text13	Text
yesNo1 - yesNo3	Boolean
alternateStorage	Storage
collectionObject	CollectionObject
prepType	PrepType
preparationAttribute	PreparationAttribute
preparedByAgent	Agent
storage	Storage

PreparationAttachment
Links digital files (preparation photos, X-rays) to a Preparation record.

*preparationAttachmentId	Integer
collectionMemberId	Integer
ordinal	Integer
remarks	Text
attachment	Attachment
preparation	Preparation

PreparationAttr
Stores values for user-customizable attributes defined by an AttributeDef, linked to a Preparation. Supports string and numeric value types.

*attrId	Integer
collectionMemberId	Integer
dblValue	Double
strValue	Text
attributeDef	AttributeDef
preparation	Preparation

PreparationAttribute
A one-to-one extension table for Preparations, providing additional user-customizable attribute fields beyond the standard schema.

*preparationAttributeId	Integer
attrDate	Date
collectionMemberId	Integer
number1 - number9	Decimal / Integer / Short
remarks	Text
text1 - text26	Text
yesNo1 - yesNo4	Boolean

PreparationProperty
Stores additional properties or measurements for a Preparation, such as weight, dimensions, or preservation method.

*preparationPropertyId	Integer
collectionMemberId	Integer
date1 - date20	Date
guid	Text
integer1 - integer30	Integer / Short
number1 - number30	Decimal
remarks	Text
text1 - text40	Text
yesNo1 - yesNo20	Boolean
agent1 - agent20	Agent
preparation	Preparation

Project
Groups Collection Objects together under a research project or study, enabling project-level organization and reporting.

*projectId	Integer
collectionMemberId	Integer
endDate	Date
grantAgency	Text
grantNumber	Text
number1 - number2	Decimal
projectDescription	Text
projectName	Text
projectNumber	Text
remarks	Text
startDate	Date
text1 - text2	Text
url	Text
yesNo1 - yesNo2	Boolean
agent	Agent

Interactions

Accession
Also called an acquisition. A consignment of specimens acquired either by field collecting of staff members, gifts, purchases, or exchange with another institution. Tracks the source, date received, status, and total value of the acquisition.
