BIEN

https://projects.nceas.ucsb.edu/nceas/projects/bien/wiki/VegBIEN_schema

Legend

location | event | plant | occurrence | specimen | analytical | determination | misc | party | method | reference | community

^ Core

v Other

location
- location_id
- source_id
- sourceaccessioncode
- parent_id
- authorlocationcode
- accesslevel
- accessconditions
- sublocationxposition_m
- sublocationyposition_m
- authorzone
- authordatum
- authorlocation
- locationnarrative
- azimuth
- shape
- area_m2
- standsize
- placementmethod
- permanence
- layoutnarrative
- elevation_m
- elevationaccuracy_m
- elevationrange_m
- verbatimelevation
- slopeaspect_deg
- minslopeaspect_deg

17 more...

project
- project_id
- source_id
- sourceaccessioncode
- projectname
- projectdescription
- startdate
- stopdate
- accessioncode

stratum
- stratum_id
- locationevent_id
- stratumheight
- stratumbase
- stratumcover

2 more...

aggregateoccurrence
- aggregateoccurrence_id
- source_id
- sourceaccessioncode
- taxonoccurrence_id
- collectiondate
- cover_fraction
- linecover_m
- basalarea_m2
- biomass_kg_m2
- inferencearea_m2
- count
- stratum_id
- coverindex_id
- occurrencestatus_dwc
- method_id
- notes
- accessioncode

plant
- plant_id

plantobservation
- plantobservation_id
- source_id
- sourceaccessioncode
- aggregateoccurrence_id
- overallheight_m
- overallheightaccuracy_m
- collectionnumber
- stemcount
- plant_id
- accessioncode

stemobservation
- stemobservation_id
- source_id
- sourceaccessioncode
- plantobservation_id
- authorstemcode
- tag
- tags
- xposition_m
- yposition_m
- diameterbreastheight_m
- basaldiameter_m
- diameteraccuracy_m
- height_m
- heightfirstbranch_m
- heightaccuracy_m
- health
- age
- accessioncode

coordinates
- coordinates_id
- source_id
- latitude_deg
- longitude_deg
- verbatimlatitude
- verbatimlongitude
- verbatimcoordinates
- footprintgeometry_dwc
- coordsaccuracy_m

locationevent
- locationevent_id
- source_id
- sourceaccessioncode
- accesslevel
- parent_id
- location_id
- project_id
- authoreventcode
- previous_id
- obsstartdate
- obsenddate
- dateaccuracy
- method_id
- temperature_c
- precipitation_m

62 more...

taxonoccurrence
- taxonoccurrence_id
- source_id
- sourceaccessioncode
- locationevent_id
- authortaxoncode
- collector_id
- growthform
- iscultivated
- cultivatedbasis
- isnative
- accessioncode

voucher
- voucher_id
- taxonoccurrence_id
- specimenreplicate_id

specimenreplicate
- specimenreplicate_id
- source_id
- sourceaccessioncode
- plantobservation_id
- institution_id
- collectioncode_dwc
- catalognumber_dwc
- description
- specimen_id
- accessioncode

specimen
- specimen_id

place
- place_id
- source_id
- canon_place_id
- matched_place_id
- coordinates_id
- placename_id
- continent
- country
- stateprovince
- county
- description
- geovalid
- distance_to_country_m
- distance_to_state_m
- distance_to_county_m

locationplace
- locationplace_id
- location_id
- place_id
- identifier_id

taxondetermination
- taxondetermination_id
- taxonoccurrence_id
- taxonverbatim_id
- party_id
- role
- determinationtype
- source_id
- isoriginal
- iscurrent
- taxonfit
- taxonconfidence
- grouptype
- notes
- notespublic
- notesmgt
- revisions
- determinationdate
- accessioncode

taxonverbatim
- taxonverbatim_id
- taxonlabel_id
- verbatimrank
- taxonomicname
- taxonname
- author
- family
- genus
- specific_epithet
- morphospecies
- growthform
- description

methodtaxonclass
- methodtaxonclass_id
- method_id
- taxonlabel_id
- included
- submethod_id
- taxonclass

method
- method_id
- source_id
- name
- description
- diameterheight_m
- mindiameter_m
- maxdiameter_m
- minheight_m
- maxheight_m
- observationtype
- observationmeasure
- covermethod_id
- samplingfactor
- coverbasis
- stemsamplemethod
- shape
- length_m
- width_m
- radius_m
- area_m2
- samplearea_m2
- subplotspacing_m
- subplotmethod_id
- pointsperline
- accessioncode

soilobs
- soilobs_id
- locationevent_id
- horizon
- description
- depthtop_m
- depthbottom_m
- color
- texture
- organic_fraction
- sand_fraction
- silt_fraction
- clay_fraction
- coarse_fraction
- ph
- acidity_fraction
- basesaturation_fraction
- cationexchangecapacity_cmol_kg
- conductivity
- carbon_fraction

6 more...

userdefined
- userdefined_id
- userdefinedname
- userdefinedmetadata
- userdefinedcategory
- userdefinedtype
- tablename
- accessioncode

definedvalue
- definedvalue_id
- userdefined_id
- tablerecord_id
- definedvalue

placename
- placename_id
- parent_id
- rank
- placename

taxonlabel
- taxonlabel_id
- source_id
- sourceaccessioncode
- creationdate
- taxonstatus
- canon_label_id
- matched_label_id
- matched_label_fit_fraction
- parent_id
- taxonepithet
- rank
- taxonomicname
- accessioncode

taxonconcept
- taxonlabel_id
- concept_source_id

taxonlabel_relationship
- descendant_id
- ancestor_id
- relationship

projectcontributor
- projectcontributor_id
- project_id
- party_id
- role

locationeventcontributor
- locationeventcontributor_id
- locationevent_id
- party_id
- role
- contributiondate

family_higher_plant_group
- family
- higher_plant_group

threatened_taxonlabel
- taxonlabel_id

taxoncorrelation
- taxoncorrelation_id
- taxonstatus_id
- taxonlabel_id
- plantconvergence
- correlationstart
- correlationstop

taxonstatus
- taxonstatus_id
- taxonlabel_id
- party_id
- taxonlabelstatus
- source_id
- plantpartycomments
- startdate
- stopdate
- accessioncode

taxonlineage
- taxonlineage_id
- childtaxonstatus_id
- parenttaxonstatus_id

covermethod
- covermethod_id
- source_id
- covertype
- coverestimationmethod
- accessioncode

coverindex
- coverindex_id
- covermethod_id
- covercode
- upperlimit
- lowerlimit
- coverpercent
- indexdescription

commclass
- commclass_id
- locationevent_id
- inspection
- tableanalysis
- multivariateanalysis
- classpublication_id

9 more...

note
- note_id
- notelink_id
- party_id
- role
- notetype
- notetext
- notedate
- accessioncode

notelink
- notelink_id
- tablename
- attributename
- tablerecord

analytical_stem
- institutionCode
- country
- stateProvince
- county
- decimalLatitude
- decimalLongitude
- coordinateUncertaintyInMeters
- geosourceValid
- isNewWorld
- distanceToCountry_km
- distanceToStateProvince_km
- plotName
- elevationInMeters
- plotArea_ha
- samplingProtocol
- dateCollected
- higherPlantGroup
- family
- genus
- speciesBinomial
- scientificName
- scientificNameAuthorship
- scientificNameWithMorphospecies
- threatened
- identifiedBy
- growthForm
- cultivated
- cultivatedBasis
- coverPercent
- diameterBreastHeight_cm
- height_m
- tag
- organismX_m
- organismY_m
- recordedBy
- recordNumber

analytical_aggregate
- institutionCode
- country
- stateProvince
- county
- decimalLatitude
- decimalLongitude
- coordinateUncertaintyInMeters
- geosourceValid
- isNewWorld
- distanceToCountry_km
- distanceToStateProvince_km
- plotName
- elevationInMeters
- plotArea_ha
- samplingProtocol
- dateCollected
- higherPlantGroup
- family
- genus
- speciesBinomial
- scientificName
- scientificNameAuthorship
- scientificNameWithMorphospecies
- threatened
- growthForm
- cultivated
- cultivatedBasis
- coverPercent
- individualCount
- individualCount_1cm_or_more
- individualCount_2_5cm_or_more
- individualCount_10cm_or_more

source
- source_id
- matched_source_id
- parent_id
- shortname
- citation
- sourcetype
- accesslevel
- accessconditions
- title
- titlesuperior
- volume
- issue
- pagerange
- totalpages
- publisher
- publicationplace
- isbn
- edition
- numberofvolumes
- chapternumber
- reportnumber
- communicationtype
- degree
- url
- doi
- additionalinfo
- pubdate
- accessdate
- conferencedate
- accessioncode

commdetermination
- commdetermination_id
- commclass_id
- commconcept_id
- commcode
- commname
- classfit
- classconfidence
- commauthority_id
- notes
- type
- nomenclaturaltype

commconcept
- commconcept_id
- commname_id
- source_id
- commdescription
- commname
- accessioncode

commname
- commname_id
- commname
- source_id
- dateentered

commusage
- commusage_id
- commname_id
- commname
- commconcept_id
- commnamestatus
- classsystem
- party_id
- commstatus_id
- usagestart
- usagestop

sourcename
- sourcename_id
- source_id
- system
- name
- matched_source_id

party
- party_id
- source_id
- fullname
- salutation
- givenname
- middlename
- surname
- suffix
- department
- organizationname
- currentname_id
- contactinstructions
- email
- partytype

2 more...

telephone
- telephone_id
- party_id
- phonenumber
- phonetype

sourcecontributor
- sourcecontributor_id
- source_id
- sourceparty_id
- role
- order

commcorrelation
- commcorrelation_id
- commstatus_id
- commconcept_id
- commconvergence
- correlationstart
- correlationstop

commstatus
- commstatus_id
- commconcept_id
- source_id
- commconceptstatus
- commparent_id
- commlevel
- commpartycomments
- party_id
- startdate
- stopdate
- accessioncode

address
- address_id
- party_id
- organization_id
- orgposition
- email
- street
- street2
- city
- stateprovince
- postalcode
- country

2 more...

partymember
- partymember_id
- parentparty_id
- childparty_id
- role
- memberstart
- memberstop

commlineage
- commlineage_id
- parentcommstatus_id
- childcommstatus_id

revision
- revision_id
- tablename
- tableattribute
- tablerecord
- previousvaluetext
- previousvaluetype
- previousrevision_id
- revisiondate