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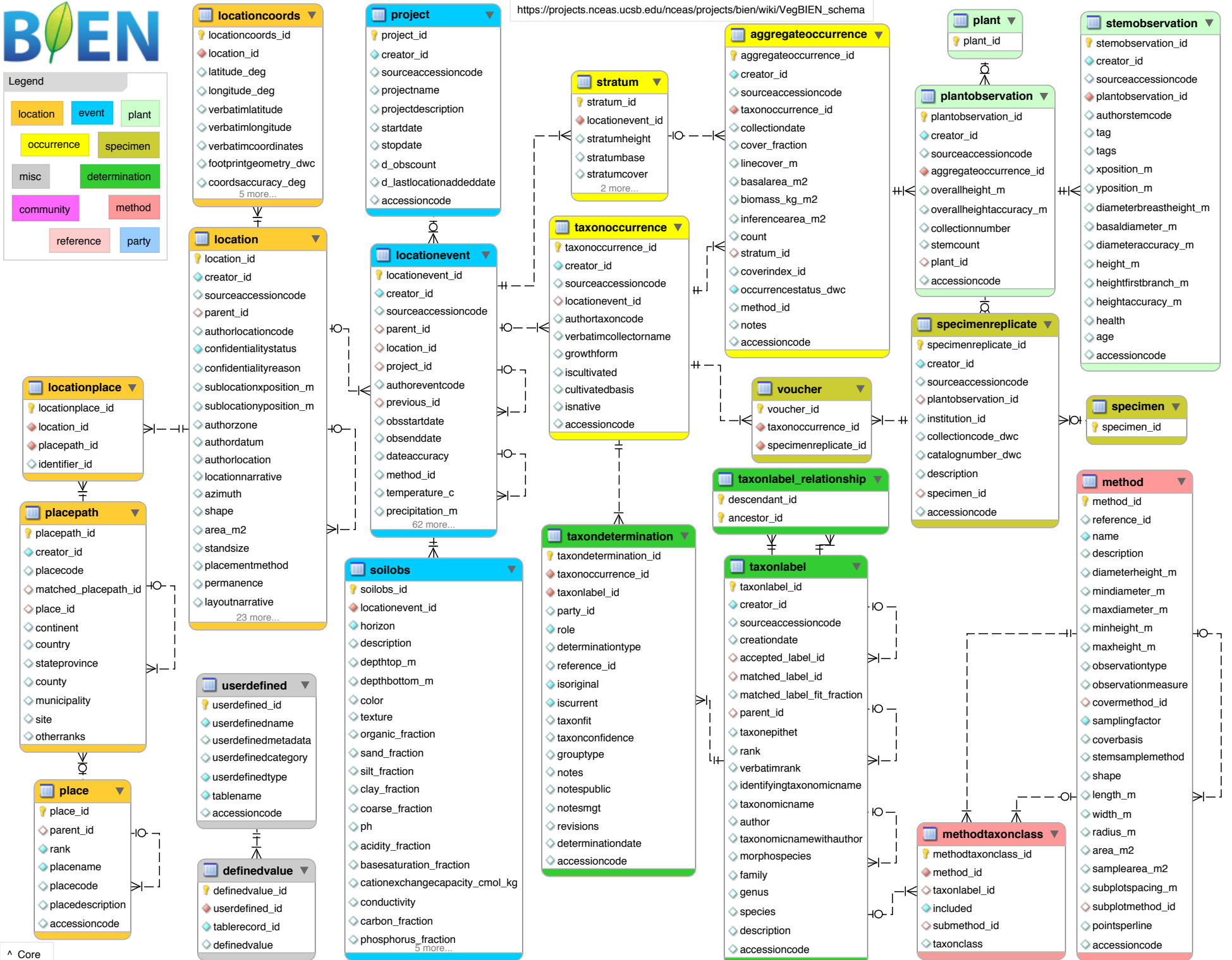
https://projects.nceas.ucsb.edu/nceas/projects/bien/wiki/VegBIEN_schema

Legend

- location
- event
- plant
- occurrence
- specimen
- misc
- determination
- community
- method
- reference
- party

^ Core

locationcoords
- locationcoords_id
- location_id
- latitude_deg
- longitude_deg
- verbatimlatitude
- verbatimlongitude
- verbatimcoordinates
- footprintgeometry_dwc
- coordsaccuracy_deg
- 5 more...

project
- project_id
- creator_id
- sourceaccessioncode
- projectname
- projectdescription
- startdate
- stopdate
- d_obscount
- d_lastlocationaddeddate
- accessioncode

stratum
- stratum_id
- locationevent_id
- stratumheight
- stratumbase
- stratumcover
- 2 more...

aggregateoccurrence
- aggregateoccurrence_id
- creator_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

stemobservation
- stemobservation_id
- creator_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

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

location
- location_id
- creator_id
- sourceaccessioncode
- parent_id
- authorlocationcode
- confidentialitystatus
- confidentialityreason
- sublocationxposition_m
- sublocationyposition_m
- authorzone
- authordatum
- authorlocation
- locationnarrative
- azimuth
- shape
- area_m2
- standsize
- placementmethod
- permanence
- layoutnarrative
- 23 more...

locationevent
- locationevent_id
- creator_id
- sourceaccessioncode
- parent_id
- location_id
- project_id
- authoreventcode
- previous_id
- obsstartdate
- obsenddate
- dateaccuracy
- method_id
- temperature_c
- precipitation_m
- 62 more...

taxonoccurrence
- taxonoccurrence_id
- creator_id
- sourceaccessioncode
- locationevent_id
- authortaxoncode
- verbatimcollectorname
- growthform
- iscultivated
- cultivatedbasis
- isnative
- accessioncode

voucher
- voucher_id
- taxonoccurrence_id
- specimenreplicate_id

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

specimen
- specimen_id

locationplace
- locationplace_id
- location_id
- placepath_id
- identifier_id

placepath
- placepath_id
- creator_id
- placecode
- matched_placepath_id
- place_id
- continent
- country
- stateprovince
- county
- municipality
- site
- otherranks

place
- place_id
- parent_id
- rank
- placename
- placecode
- placedescription
- accessioncode

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

definedvalue
- definedvalue_id
- userdefined_id
- tablerecord_id
- definedvalue

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
- phosphorus_fraction
- 5 more...

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

taxonlabel_relationship
- descendant_id
- ancestor_id

taxonlabel
- taxonlabel_id
- creator_id
- sourceaccessioncode
- creationdate
- accepted_label_id
- matched_label_id
- matched_label_fit_fraction
- parent_id
- taxonepithet
- rank
- verbatimrank
- identifyingtaxonomicname
- taxonomicname
- author
- taxonomicnamewithauthor
- morphospecies
- family
- genus
- species
- description
- accessioncode

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

method
- method_id
- reference_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

v Other

commclass
- 🔑 commclass_id
- ◇ locationevent_id
- ◇ inspection
- ◇ tableanalysis
- ◇ multivariateanalysis
- ◇ classpublication_id
- *9 more...*

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

commconcept
- 🔑 commconcept_id
- ◆ commname_id
- ◇ reference_id
- ◇ commdescription
- ◇ d_obscount
- ◇ commname
- ◇ d_currentaccepted
- ◇ accessioncode

commname
- 🔑 commname_id
- ◇ commname
- ◇ reference_id
- ◇ dateentered

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

taxoncorrelation
- 🔑 taxoncorrelation_id
- ◆ taxonstatus_id
- ◆ taxonlabel_id
- ◇ plantconvergence
- ◇ correlationstart
- ◇ correlationstop

taxonstatus
- 🔑 taxonstatus_id
- ◆ taxonlabel_id
- ◇ party_id
- ◇ taxonlabelstatus
- ◇ reference_id
- ◇ plantpartycomments
- ◇ startdate
- ◇ stopdate
- ◇ accessioncode

taxonlineage
- 🔑 taxonlineage_id
- ◇ childtaxonstatus_id
- ◆ parenttaxonstatus_id

covermethod
- 🔑 covermethod_id
- ◇ reference_id
- ◇ covertype
- ◇ coverestimationmethod
- ◇ accessioncode

coverindex
- 🔑 coverindex_id
- ◆ covermethod_id
- ◇ covercode
- ◇ upperlimit
- ◇ lowerlimit
- ◇ coverpercent
- ◇ indexdescription

note
- 🔑 note_id
- ◆ notelink_id
- ◇ party_id
- ◇ role
- ◇ notetype
- ◇ notetext
- ◇ notedate
- ◇ accessioncode

commcorrelation
- 🔑 commcorrelation_id
- ◆ commstatus_id
- ◆ commconcept_id
- ◇ commconvergence
- ◇ correlationstart
- ◇ correlationstop

commstatus
- 🔑 commstatus_id
- ◆ commconcept_id
- ◇ reference_id
- ◇ commconceptstatus
- ◆ commparent_id
- ◇ commlevel
- ◇ commpartycomments
- ◇ party_id
- ◇ startdate
- ◇ stopdate
- ◇ accessioncode

notelink
- 🔑 notelink_id
- ◇ tablename
- ◇ attributename
- ◇ tablerecord

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

commlineage
- 🔑 commlineage_id
- ◆ parentcommstatus_id
- ◆ childcommstatus_id

reference
- 🔑 reference_id
- ◇ shortname
- ◇ fulltext
- ◇ referencetype
- ◇ title
- ◇ titlesuperior
- ◆ referencejournal_id
- ◇ volume
- ◇ issue
- ◇ pagerange
- ◇ totalpages
- ◇ publisher
- ◇ publicationplace
- ◇ isbn
- ◇ edition
- ◇ numberofvolumes
- ◇ chapternumber
- ◇ reportnumber
- ◇ communicationtype
- ◇ degree
- ◇ url
- ◇ doi
- ◇ additionalinfo
- ◇ pubdate
- ◇ accessdate
- ◇ conferencedate
- ◇ accessioncode

referencecontributor
- 🔑 referencecontributor_id
- ◆ reference_id
- ◆ referenceparty_id
- ◇ roletype
- ◇ position

referencejournal
- 🔑 referencejournal_id
- ◇ journal
- ◇ issn
- ◇ abbreviation
- ◇ accessioncode

referencealtident
- 🔑 referencealtident_id
- ◆ reference_id
- ◇ system
- ◇ identifier

referenceparty
- 🔑 referenceparty_id
- ◇ type
- ◇ positionname
- ◇ salutation
- ◇ givenname
- ◇ surname
- ◇ suffix
- ◇ organizationname
- ◆ currentparty_id
- ◇ accessioncode

partymember
- 🔑 partymember_id
- ◆ parentparty_id
- ◆ childparty_id
- ◇ role
- ◇ memberstart
- ◇ memberstop

party
- 🔑 party_id
- ◆ creator_id
- ◇ fullname
- ◇ salutation
- ◇ givenname
- ◇ middlename
- ◇ surname
- ◇ organizationname
- ◆ currentname_id
- ◇ contactinstructions
- ◇ email
- ◇ partytype
- ◇ partypublic
- ◇ d_obscount
- ◇ accessioncode

address
- 🔑 address_id
- ◆ party_id
- ◇ organization_id
- ◇ orgposition
- ◇ email
- ◇ deliverypoint
- ◇ city
- ◇ administrativearea
- ◇ postalcode
- ◇ country
- ◇ currentflag
- ◇ addressstartdate

telephone
- 🔑 telephone_id
- ◆ party_id
- ◇ phonenumber
- ◇ phonetype