# GEOROC 2.0 DATA MODEL V1

ODM2 table | additions to ODM2

## CITATIONS

**CitationExternalIdentifiers**
***BridgeID***
CitationID
ExternalIdentifierSystemID
CitationExternalIdentifier
CitationExternalIdentifierURI

**Citations**
***CitationID***
Title
Publisher
PublicationYear
CitationLink
Journal
Volume
Issue
FirstPage
LastPage
BookTitle
Editors

**DatasetExternalIdentifiers**
***BridgeID***
DatasetID
ExternalIdentifierSystemID
DatasetExternalIdentifier
DatasetExternalIdentifierURI

**DatasetCitations**
***BridgeID***
DatasetID
RelationshipType
CitationID

**Datasets**
***DatasetID***
DatasetUUID
DatasetTypeCV
DatasetCode
DatasetTitle
DatasetAbstract

**MethodCitations**
***BridgeID***
MethodID
RelationshipTypeCV
CitationID

**AuthorLists**
***BridgeID***
CitationID
PersonID
AuthorOrder

## PEOPLE

**Organizations**
***OrganizationID***
OrganizationTypeCV
OrganizationCode
OrganizationName
OrganizationDescription
OrganizationLink
ParentOrganizationID
OrganizationDepartment
OrganizationAddress1
OrganizationAddress2
OrganizationCityStateZip
OrganizationCountry

**PersonExternalIdentifiers**
***BridgeID***
PersonID
ExternalIdentifierSystemID
PersonExternalIdentifier
PersonExternalIdentifierURI

**People**
***PersonID***
PersonFirstName
PersonMiddleName
PersonLastName

**Affiliations**
***AffiliationID***
PersonID
OrganizationID
AffiliationStartDate
AffiliationEndDate
PrimaryPhone
PrimaryEmail

**ActionBy**
***BridgeID***
ActionID
AffiliationID
IsActionLead
RoleDescription
PersonID
OrganizationID

## METHODS

**Methods**
***MethodID***
MethodTypeCV
MethodCode
MethodName
MethodDescription
MethodLink
OrganizationID

if this table stays, we should assign VariableIDs instead of FractCorrectVariable

**FractCorrect**
***FractCorrectID***
FractCorrectValue
FractCorrectVariable

**ActionsFractCorrect**
***BridgeID***
ActionID
FractCorrectID

**Actions**
***ActionID***
ActionTypeCV
MethodID
BeginDateTime
BeginDateTimeUTCOffset
EndDateTime
EndDateTimeUTCOffset
ActionDescription
ActionFileLink
ActionCitation
EquipmentName
EquipmentTypeCV

**DatasetsResults**
***BridgeID***
DatasetID
ResultID

**FeatureActions**
***FeatureActionID***
SamplingFeatureID
ActionID

## RESULTS

**Units**
***UnitsID***
UnitsTypeCV
UnitsAbbreviation
UnitsName
UnitsLink
UnitGEOROC

added to ease migration

**RelatedResults**
***RelationID***
ResultID
RelationshipTypeCV
RelatedResultID
RelationDescription

**Results**
***ResultID***
ResultUUID
FeatureActionID
ResultTypeCV
VariableID
UnitsID
TaxonomicClassifierID
ProcessingLevelID
ResultDateTime
ResultDateTimeUTCOffset
ValidDateTime
ValidDateTimeUTCOffset
StatusCV
SampledMediumCV
ValueCount

ValueID = ResultID

**MeasurementResultValues**
***ValueID***
DataValue
ValueDateTime
ValueDateTimeUTCOffset

**Variables**
***VariableID***
VariableTypeCV
VariableCode
VariableNameCV
VariableDefinition
SpeciationCV
NoDataValue
VariableTypeCode

added to ease data migration

**ProcessingLevels**
***ProcessingLevelID***
ProcessingLevelCode
Definition
Explanation

## LOCATIONS, SAMPLES

**SamplingFeatures**
***SamplingFeatureID***
SamplingFeatureUUID
SamplingFeatureTypeCV
SamplingFeatureCode
SamplingFeatureName
SamplingFeatureDescription
SamplingFeatureGeotypeCV
FeatureGeometry
FeatureGeometryWKT
Elevation_m
ElevationDatumCV
ElevationPrecision
ElevationComment

**SamplingFeatureExternalIdentifiers**
***BridgeID***
SamplingFeatureID
ExternalIdentifierSystemID
SamplingFeatureExternalIdentifier
SamplingFeatureExternalIdentifierURI

**RelatedFeatures**
***RelationID***
SamplingFeatureID
RelationshipTypeCV
RelatedFeatureID
SpatialOffsetID

**Sites**
***SamplingFeatureID***
SiteTypeCV
Latitude
Longitude
SpatialReferenceID
LocationPrecision
LocationComment
SiteDescription
Setting

**Specimens**
***SamplingFeatureID***
SpecimenTypeCV
SpecimenMediumCV
IsFieldSpecimen
SpecimenTexture

**SpecimenAges**
***SamplingFeatureID***
SpecimenAgeMin
SpecimenAgeMax
SpecimenGeolAge
SpecimenGeolAgePrefix
EruptionDay
EruptionMonth
EruptionYear

**SpecimenTaxonomicClassifiers**
***BridgeID***
SamplingFeatureID
TaxonomicClassifierID
CitationID

**SiteGeolocations**
***BridgeID***
SamplingFeatureID
GeolocationID
LocationName

**Geolocations**
***GeolocationID***
GeolocationType

**TaxonomicClassifiers**
***TaxonomicClassifierID***
TaxonomicClassifierTypeCV
TaxonomicClassifierName
TaxonomicClassifierCommonName
TaxonomicClassifierDescription
ParentTaxonomicClassifierID

## RESULTS QUALITY

**ResultsDataQuality**
***BridgeID***
ResultID
DataQualityID

**ResultNormalizationValues**
***ResultID***
NormalizedByReferenceMaterialValueID

## DATA QUALITY

**DataQuality**
***DataQualityID***
DataQualityTypeCV
DataQualityCode
DataQualityValue
DataQualityValueUnitsID
DataQualityDescription
DataQualityLink
DataQualityComment

**ReferenceMaterials**
ReferenceMaterialID
ReferenceMaterialCode

**ReferenceMaterialValues**
ReferenceMaterialValueID
ReferenceMaterialID
ReferenceMaterialValue
ReferenceMaterialAccuracy
VariableID
UnitsID
CitationID

## OTHER GEOROC CONCEPTS PRESERVED AS ANNOTATIONS:

[LOCATIONS] LOCATION_COMMENT

[SAMPLES] SAMPLE_COMMENT
[SAMPLES] ALTERATION
[SAMPLES] ALTERATION_TYPE
[SAMPLES] DRILL_DEPTH_MIN
[SAMPLES] DRILL_DEPTH_MAX
[SAMPLES] SAMP_TECHNIQUE
[BATCHES] MATERIAL

[MINERALS] RIM_OR_CORE_MIN
[MINERALS] MINERAL_SIZE
[MINERALS] PRIM_OR_SEC
[INCLUSIONS] INCLUSION_TYPE
[INCLUSIONS] HEATING
[INCLUSIONS] HEATING_TEMPERATURE
[INCLUSIONS] RIM_OR_CORE_INC
[INCLUSIONS] INCLUSION_SIZE

[ROCKMODE_ANALYSES] N_COUNT_MIN
[ROCKMODE_ANALYSES] N_COUNT_MAX
[ROCKMODES] MIN_TEXTURE
[NORMALIZATION_LIST] IsEquivalentValue