

Mapping from iSamples Core 1.0 Material Sample description to Minimum Information about a Digital Specimen (MIDS), based on MIDS Github issue tracker (<https://github.com/tdwg/mids/labels/status%3A%20accepted%20in%20specification>). Levels in MIDS scheme are indicated. Some of the fields are proposed in MIDS but as of this writing are 'not accepted'. Fields on the left with the prefix 'X--' do not map between schemes, or require processing to map.

iSamplesSchemaCore1.0	iSamples notes	MIDS	MIDS note
X-- metadata update date	Update date not currently included	Modified (level 1)	date/time of first creation or subsequent modification
X-- sample mass	MIDS includes Mass in MIDS-3. iSamples, concatenate in description	Mass (level 3)	quantity of matter in a specimen, particularly for minerals, phases and meteorites
alternate_identifiers/label		collectingNumber (level 2)	identifier given to the specimen at the time it was recorded [collected]
curation/curation_location	Information about where and how the sample is currently stored.	InstitutionID (level 3)	identifier for the institution having custody of the object(s)
curation/description	Concatenate information from MIDS	PreparationType, PreservationMethod (not accepted)	proposed, not accepted; this information in iSamples curation description
curation/responsibility [role='classification']	unique identifier for the person, people, groups, or organizations responsible for assigning the scientific name to the subject. Include this as a curation/responsibility	IdentifiedByID (level 3)	list (concatenated and separated) of the globally unique identifier for the person, people, groups, or organizations responsible for assigning the scientific name to the subject
curation/responsibility/name	Person or organization name	Organization (level 0)	term to indicate in which institution the specimen is held. This may include an institution code and an institution identifier.
dc_rights	Statement of legal requirements and rights for accessing, using, or sharing information about the material sample.	License (level 1)	License under which the specimen data are published
has_material_category	Map to iSamples top level classifications for material. Include verbatim values if different as keywords.	MaterialType (not accepted)	
has_sample_object_type	specify the kind of object that the specimen is. Map MIDS terms to iSamples Material Sample Object Type vocab	ObjectType (level 1)	term to describe the kind of specimen. In combination with SpecimenType - hierarchical; a more specific classification than described by SpecimenType
keywords/keyword	An identifier for the nomenclatural (not taxonomic) details of a scientific name.	SpecimenType (level 1)	High-level term to delimit and define specimens. For example: preserved specimen, fossil specimen, as opposed to observation. [if there is a controlled vocabulary, map to iSamplesMaterialType category where logically consistent]
keywords/scheme_name = GeologicAge	included in MIDS-2. implement as keyword in iSamples	GeologicAge (level 2)	
keywords/scheme_name = TypeStatus	included in MIDS-2. implement as keyword in iSamples	TypeStatus (level 2)	nomenclatural type status of the specimen; a null value means "Assumed not to be a type". Examples: Holotype, Isotype, Syntype, Cotype, Epitype, Neotype, Lectotype

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keywords/keyword [scheme_uri = ICS time scale]	Formal time ordinal era terms and identifier in keywords. Summary of details about an age estimation for temporal extent of sample origin goes in iSamples sample description.	GeologicAge (level 2)	geological age of a Earth Science specimen (i.e. Fossil, Rock, Mineral or Meteorite) and can be any kind of stratigraphic age, isotopically determined age or structural age [numeric age should be reported in the description; this field should be consistent with a term for a time-ordinal era]
keywords/keyword_uri		ScientificNameID (level 3)	identifier for the nomenclatural (not taxonomic) details of a scientific name. [note that the associated keyword should be the nomenclatural detail label associated with the identifier.]
label	a human intelligible string used to identify the sample; i.e. the name to use for the sample; should be unique in the scope of a sample collection. This will typically be a sample identifier or label assigned by the original collector	Name (level 1)	string of characters and/or numbers by which the object is referenced within a collection
produced_by/SamplingEvent/responsibility	the responsibility is an agent-- could be person or organization, with role = 'collector'. Other agents associated with the sampling event could be included, e.g. with roles like 'sponsor', 'funder'....	CollectingAgent (level 2)	list (concatenated and separated) of names of people, groups, or organizations responsible for recording the original Occurrence [i.e. sample collection]
produced_by/SamplingEvent/responsibility[role=collector]/identifier	only one identifier associated with person in this role. iSamples identifier value is a string.	CollectorID (level 3)	list (concatenated and separated) of the globally unique identifier for the person, people, groups, or expeditions responsible for responsible for collecting the specimen
produced_by/SamplingEvent/result_time	Date on which the sample was collected.	dateCollected (level 2)	date/time when the [sample collection] event was recorded
produced_by/SamplingEvent/sampling_site/identifier/identifier	An identifier for the geographical locality where the material sample was collected.	GeographicalLocalityID (level 3)	identifier for the geographical locality where the specimen was collected
produced_by/SamplingEvent/sampling_site/sample_location/latitude	sample location point coordinate	quantitativeLocation (level 2)	A quantitative measure that would include coordinate or shape data, an identifier, or data that can be easily converted into a quantitative measure
produced_by/SamplingEvent/sampling_site/sample_location/longitude	sample location point coordinate	quantitativeLocation (level 2)	quantitative measure that would include coordinate or shape data, an identifier, or data that can be easily converted into a quantitative measure
produced_by/SamplingEvent/sampling_site/place_name	iSamples can have multiple values.	qualitativeLocation (level 2)	term [or text] to describe where the specimen was collected; A human readable location
related_resource/label	a human intelligible string used to identify a thing, i.e. the name to use for the thing; should be unique in the scope of a sample collection or dataset.	Media (level2)	list (concatenated and separated) of media associated with the specimen. [not clear if this are expected to be labels or identifiers]
related_resource/target	identifier for the target resource in the relationship. Should be a resolvable URI.	AssociatedMediaID (level 3)	list (concatenated and separated) of identifiers (publication, global unique identifier, URI) of media associated with the specimen.

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sample_identifier		unique identifier for the physical object, ideally a URI that is physically attached to the material sample object, an IGSN or ARK		PhysicalSpecimenID (Level 0)	unique identity [identifier] for the specimen within the curating institution