

**Data Model for Managing and Preserving Geospatial Electronic Records
Version 1.00**

Prepared by:

**Center for International Earth Science Information Network (CIESIN)
Columbia University
PO Box 1000, 61 Route 9W, Palisades, New York 10964 USA
Phone: +1 845 365-8988 Fax: +1 845 365-8922**

June 2005

Table of Contents

Preface.....	1
<i>Disclaimer</i>	1
Acknowledgement	2
<i>Project Advisory Board Members</i>	2
Description.....	3
<i>Scope of the Data Model</i>	3
<i>Data Model Components</i>	3
<i>Entity-Relationship Diagram Organization</i>	4
<i>Data Dictionary Overview</i>	4
<i>Description of Crosswalks</i>	5
<i>Implementation</i>	6
<i>Sources</i>	7
Entity-Relationship Diagram	8
Data Dictionary	9
References.....	28
Appendix.....	31

Preface

The Data Model for Managing and Preserving Geospatial Electronic Records identifies and describes the tables and the fields for storing metadata and related information to improve the electronic record-keeping capabilities of systems that support the management and preservation of geospatial data and related electronic records (GERs). This document contains Version 1.00, the initial release of the data model, and includes the description of the data model, the entity-relationship (ER) diagram, the data dictionary, and the crosswalks to standards and other schemas relevant to managing and preserving GERs and other digital objects.

The data model is based on a review of current standards, frameworks, and requirements applicable to managing and preserving GERs. Adoption of the data model or a subset of the tables and fields in a database or metadata schema provides an opportunity to capture the available information to improve capabilities for managing and preserving GERs and other digital objects. Implementation in a database management system used to manage and preserve GERs or other digital objects can provide experience on the utility of the data model and identify aspects of the data model that can improve practices for managing and preserving electronic records. In addition, implementation of the data model could identify aspects of the data model that can be improved to foster the management and preservation of digital objects and collections.

Disclaimer

Organizations and individuals may use the data model or parts of it to improve the management and preservation of digital objects and do so at their own risk. CIESIN, Columbia University, and its sponsors are not liable for any application, use, or misuse of the data model.

Acknowledgement

Version 1.00 of the Data Model for Managing and Preserving Geospatial Records has been developed as part of the project, Managing and Preserving Geospatial Electronic Records, which was supported by the National Historical Publications and Records Commission (NHPRC), under Grant number 2003-038, and conducted by the Center for International Earth Science Information Network (CIESIN), of Columbia University.

Dr. Robert S. Chen, Deputy Director of CIESIN, and Dr. Robert R. Downs, Senior Digital Archivist and Senior Staff Associate Officer of Research at CIESIN, served as the Director and Co-Director, respectively, for the project. Other project team members from CIESIN include Mark Becker, Branko Djapic, Annie Gerard, John Mickelson, and John Scialdone. Additional CIESIN staff members who contributed to the development of the data model include Yitzhak E. Gitelman, W. Christopher Lenhardt, Elisa Maria Lukang, Joachim Schumacher, and Sri Vinayagamoorthy. Many aspects of the data model reflect insights obtained from community members who participated in, “Extending the Boundaries: A Workshop on Managing and Preserving Geospatial Electronic Records”, and from the anonymous practitioners who participated in the study of geospatial data management practices (Downs and Chen, in Draft). In addition, the data model design also has benefited from the expertise of the members of the project Advisory Board, listed below.

Project Advisory Board Members

Cheryl Benjamin, Standards/Data Coordination New York State Cyber Security & Critical Infrastructure Coordination

Kevin Glick, Electronic Records Archivist, Yale University Sterling Memorial Library

Bill Guthe, Educational Tech Center GIS Analyst, Princeton University

Geoffrey Huth, Mgr, Records Services Development New York State Education Department, Archives

Sally Johnson, Policy Analyst for Statewide Planning Program, State of Rhode Island

Patrick McGlamery, Library Liaison to Geography, University of Connecticut

Jennifer O'Neill, E-Government & GIS Specialist, New York State Education Department, Archives

Theresa Pardo, Deputy Director, Center for Technology in Government, University of Albany

Robert Sandev, GIS Officer, Division for Ocean Affairs and the Law of the Sea, Office of Legal Affairs, United Nations

Doug Schuetz, GIS Director, Rockland County Planning

Bridget Sisk, Chief, Archives & Records Management Section, United Nations Secretariat

Terri Spies, GIS Specialist, New York City Department of Environmental Protection

Larry Thornton, Bureau Chief, Geographic Information and Analysis, New Jersey Department of Environmental Protection

Sam Wear, GIS Director, Westchester County

Description

The Data Model for Managing and Preserving Geospatial Electronic Records contains the tables and fields to describe and to manage geospatial electronic records (GERs), as well as other digital objects, during their entire lifecycle. The data model combines information elements identified from current requirements and standards developed by communities concerned with the management and preservation of GERs and other digital objects. In addition to enabling the description of individual digital objects, the data model offers capabilities for maintaining descriptions about the categories to which objects have been assigned and about the processes and the resources for managing and preserving these digital assets. The data model is designed to inform the development of an information system for managing and preserving geospatial data and related electronic records within collections of digital objects, throughout their lifecycle. Systems that employ the data model or aspects of it also could be used for managing and preserving other kinds of digital and physical records and for maintaining documentation and workflow information for managing multiple collections that require data stewardship and life cycle management.

Scope of the Data Model

The data model is designed to improve capabilities for implementing systems to manage and preserve GERs in small organizations and agencies with limited resources. Tables and fields included in the data model have been identified to support the development of systems that facilitate electronic records management for GERs and other digital objects that need to be managed during their life cycle.

Currently, the primary focus of the data model is to capture information to support archival processes for managing and preserving GERs and other digital objects. In addition to the information offering support for selection, accession, preservation, and disposition, the data model contains semantic units for organizing and managing objects as collections, series, and aggregations. Digital objects managed using the data model can be organized as groups included in particular dissemination instances that are accessible from distributors or registered in catalogs.

Some fields of Version 1.00 of the data model offer capabilities to support finding digital objects as part of data management processes. However, the design of the data model does not optimize capabilities for facilitating data discovery or information retrieval. Version 1.00 of the data model does offer capabilities to describe and manage various documents related to digital objects being managed, including documents containing discovery metadata and guides supporting development and use. In addition to improving capabilities for managing and preserving GERs, subsequent versions of the data model should include enhancements to improve capabilities for discovery, access, and use of managed digital objects.

Data Model Components

The data model includes this descriptive document, an entity-relationship (ER) diagram, a data dictionary, and crosswalks to current standards and requirements. Each of these documents

describes aspects of the data model, which together provide an overview and details about the administrative, preservation, and descriptive metadata elements and the supporting workflow information identified for inclusion in the design of a system being developed to manage and preserve geospatial data and related electronic records.

Entity-Relationship Diagram Organization

The Entity-Relationship (ER) diagram graphically represents the relationships between the tables and fields contained in the data model. Within the ER Diagram, thirty-nine tables are organized into the following five color-coded clusters for managing digital objects:

- Provenance and Attributes,
- Organization,
- Distribution,
- Administration, and
- Physical Properties

Within each cluster of the ER Diagram, boxes represent tables and lines represent relationships between tables. The label for each table appears above the box representing the table. Each table contains a list of field titles to indicate the kind of information that may be stored in each field. The field that serves as the primary key for a table appears at the top of the list of fields, separate from the other fields.

Data Dictionary Overview

The data dictionary defines and describes the tables and fields included in the data model. Each table contains a title and a description. Each table also lists the fields contained within it, providing a title, a definition, and a data type for each field. The primary key and any foreign keys also are described within each table of the data dictionary. The definition of each field contained within the tables describes the information that can be stored in the field to support the management of digital objects.

The fields of the data model can be used to describe aspects of administrative, preservation, and discovery metadata for each digital object and each category of objects accessioned into a managed collection. The fields also can describe some of the processes and resources employed to treat individual digital objects. A database management system that contains such field could facilitate capturing, maintaining, and reporting information on the status of the digital objects and categories controlled by workflow processes established to manage and preserve digital assets.

Using these fields and tables, digital objects described by the model can be organized into aggregations, series, and collections. Each aggregation can include one or more digital objects. Each series can include one or more aggregations and each collection can include one or more series. Objects also can be organized in groups associated with a particular dissemination. In addition, multiple objects can be described as being stored on an instance of storage media housed at a specific location.

Description of Crosswalks

Crosswalks identify fields of the data model that correspond to fields described in current standards, requirements, and other data models that are pertinent to the management and preservation of geospatial data, electronic records, and digital objects. The crosswalks to these schemas identify similarities found between definitions for fields of the data model and definitions of elements in the schemas. Each crosswalk identifies fields of the data model that are mapped to the required and optional elements included in a particular schema. The crosswalks represent interpretations of similarities between individual field definitions and do not imply compliance or conformance of the data model with a particular schema. Matched fields indicate the potential for use that could be consistent with the schema.

Crosswalks for the data model describe potential compatibility with standards and other schemas that are applicable to electronic records management and digital preservation. In each crosswalk, similar definitions or potential for consistency between fields of the data model and one or more elements of a schema have been identified by including the name of each element on the same row as the field. Table 1 lists the standards and other schemas that have been matched to the data model in crosswalks.

Table 1. Standards and Other Schemas Matched to the Data Model in Crosswalks

Cabinet Office, Office of the Envoy. <i>e-Government Metadata Standard Version 3.0</i> , April 29, 2004. Available Online: http://www.govtalk.gov.uk/schemasstandards/metadata.asp
Cornwell Management Consultants plc. <i>Model Requirements for the Management of Electronic Records: MoReq</i> . IDA Programme of the European Commission. March 2001. Available Online: http://www.cornwell.co.uk/moreq.html
Department of Defense Records Management Program. <i>DOD 5015.2-STD Design Criteria Standard for Electronic Records Management Software Applications</i> . Washington, DC. June 19, 2002. Available Online: http://jrtc.fhu.disa.mil/recmgt/standards.html
Dublin Core Metadata Initiative. <i>Dublin Core Metadata Initiative Metadata Terms</i> . Adopted as Information and documentation – The Dublin Core metadata element set (ISO 15836:2003) and as The Dublin Core Metadata Element Set (ANSI/NISO Z39.85-2001). 2003. Available Online: http://www.dublincore.org/
National Library of Australia. <i>Preservation Metadata for Digital Collections: Exposure Draft</i> . October 15, 1999. Available Online: http://www.nla.gov.au/preserve/pmeta.html
National Library of New Zealand. <i>Metadata Standards Framework, Preservation Metadata</i> . June 2003. Available Online: http://www.natlib.govt.nz/files/4initiatives_metaschema_revised.pdf
Online Computer Library Center (OCLC) and Research Libraries Group (RLG). <i>Data Dictionary for Preservation Metadata: Final Report of the PREMIS Working Group</i> . May 2005. http://www.oclc.org/research/projects/pmwg/premis-final.pdf

The crosswalks provide opportunities for comparing the data model to other data models and standards. Crosswalks can be informative when using the data model to design a database or schema that is compliant, compatible, or interoperable with other standards. A particular

crosswalk could be used to achieve interoperability with another system that complies with a particular standard. The crosswalks also identify fields that might be improved to comply with a particular schema. Identifying common compatibilities with schemas also can facilitate transfer of objects between systems. In addition, the crosswalks facilitate potential interoperability by identifying fields with values that can be exported to catalogs harvested by other services.

The data model also accommodates standards or schemas, regardless of whether the elements are mapped in a crosswalk to the data model. Fields within the Document table of the data model can be used to describe documents containing descriptive information or documentation about a digital object. Specifications for the standard or schema to which each document conforms can be maintained within these fields to facilitate subsequent processes on the information contained within such documents.

Implementation

The tables and fields of the data model could be included in a database management system that is integrated as part of a digital repository system for managing and preserving GERs and other digital objects within collections. Fields specified within the data model also could be included in a database that provides access to record-keeping information or related metadata describing GERs that have been created or acquired by an organization or agency.

The data model offers flexibility for implementation to accommodate the unique needs of each organization choosing to apply the model for managing and preserving GERs and other digital objects throughout their entire life cycle. The entire data model or selected tables and fields can be included in the design of a database management system developed to manage geospatial data and other scientific data or electronic records. The tables and fields of the data model define specific information to be captured for data management are applicable for inclusion in a database or in a schema for describing GERs and other digital objects within collections being managed. Even though the ER diagram of the data model suggests implementation in a relational database management system, implementation of the data model could employ other types of database management systems or alternative system architectures.

The flexibility of the data model and consistency with the evolving standards, frameworks, and other models identified enables implementers to establish specific implementation details that reflect the plans and requirements of the organization. The data model could be implemented as a stand-alone database management system designed to serve only as a record-keeping system for managing information about the contents and the status of digital objects and collections managed or it could be implemented in a database management system that is part of an integrated digital repository system providing access to objects for management, preservation, and even public dissemination. Integrating information stored in the database with the contents of the data stored in one or more digital repositories could facilitate the development of a system for managing GERs as part of a digital archive or an electronic records management system, digital asset management system, or content management systems to support the stewardship of digital objects. Regardless of the type of information system established for managing and preserving digital objects, implementation of the data model also could provide electronic-

record-keeping capabilities to support the stewardship of physical objects, such as printed media or other artifacts that could be associated with digital objects.

Organizations that have decided to implement a record-keeping system or a records management system that is consistent with a particular standard may employ the data model to identify fields to be considered for inclusion in the implementation. Definitions for each field should be reviewed and modified if necessary, to ensure that each field meets the particular internal needs or the organization as well as to ensure that each field will be compliant with any current standards that may be adopted. Similarly, the values included with a field description definition should serve as examples of the kinds of values to be considered for populating the field.

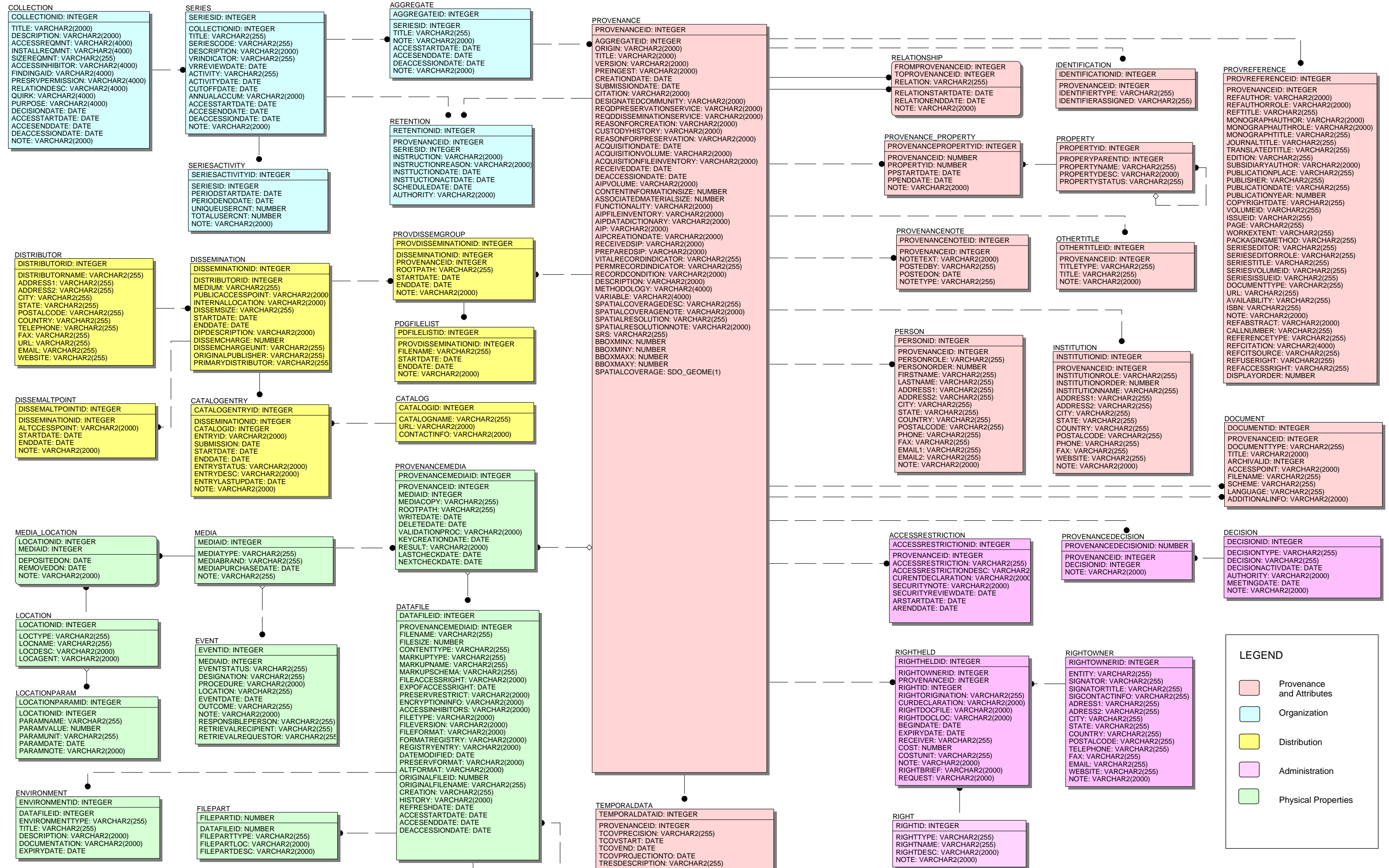
Independent of the implementation architecture, labor concerns associated with the population of fields should not dictate the selection of fields to be included in an implementation. Fields identified as necessary for a specific process can be designated as mandatory, enabling priorities for implementation. In addition, automating data management and preservation processes for the population of selected fields could improve efficiency and reduce the potential for human error.

Sources

The data model is based on a review of current standards, requirements, and examples that identify metadata and other information relevant for inclusion in systems for managing and preserving GERS, digital objects, and digital collections. These sources have been reviewed to identify information elements that have the potential for implementation in a system to support data stewardship and electronic records management. Elements also were included if they corresponded to needs identified in the study of practitioners concerned with managing and preserving geospatial electronic records (Downs & Chen, in preparation). In addition, many of the elements were identified to support plans, policies, and procedures of the Columbia University Center for International Earth Science Information Network (CIESIN), which serves as a data center for programs and projects that each have their own collections with individual requirements for data management.

Fields of the data model are derived or adopted from elements and concepts identified from these sources. Many concepts that are common among these sources have been adopted for inclusion in the tables and fields of the data model. In addition, some concepts included in the data model may not currently appear in any of these sources, but have been identified to capture information that is necessary to serve a particular purpose.

The titles and definitions of fields and tables of the data model are consistent with those found in the elements of the sources reviewed. In many cases, titles have been established for the tables and fields of the data model to reflect common usage among the sources reviewed. For example, a field with the title City may be found in many databases and metadata schemas as part of the information to describe an address. Standards, requirements, and other schemas that have been reviewed to inform the design of the data model are listed in the References section.



LEGEND

- Provenance and Attributes
- Organization
- Distribution
- Administration
- Physical Properties

Data Dictionary

Collection Table

Collection describes a logical unit that consists of one or more series.

CollectionID	Database generated, Primary Key	Integer not null
Title	Title for a Collection: CIESIN Archive, SEDAC Scientific Data Archives, specific project Archive.	String
Description	Description of the collection and keywords.	String
AccessReqmnt	Requirements for accessing the collection: Object Specific Requirements, CMB Approval, Systems Manager Approval.	String
InstallReqmnt	Requirements for installation of collection	String
SizeReqmnt	Storage volume requirement for collection, automatically calculated.	String
AccessInhibitor	Method(s) employed to inhibit access to collection that could affect preservation, such as encryption or watermarking.	String
FindingAid	Method used to facilitate discovery of collection.	String
PresrvPermission	Statement of permission to copy collection or migrate to various formats for preservation.	String
RelationDesc	Description of relationships, relevant for preservation, between collection and other objects or collections.	String
Quirk	Characteristic that could degrade functionality or aspects of the collection.	String
Purpose	Purpose and reason for archiving the collection: Funding Agency Requirement; Scientific Value; Historical value; Fiduciary responsibility.	String
DecisionDate	Date of decision to archive the collection.	Date
AccessStartDate	Date access was provided to collection.	Date
AccessEndDate	Date when access to collection ended.	Date
DeaccessionDate	Date collection was deaccessioned by archive.	Date
Note	Notes about collection.	String

Series Table

Series describes a logical unit that is part of a collection and consists of one or more aggregates.

SeriesID	Database generated, Primary Key	Integer not null
CollectionID	Foreign Key, Collection Table	Integer not null
Title	Title of a record series category within a Collection: CIESIN Administrative Records, CIESIN Records Common to All Projects, CIESIN Scientific Data, SEDAC Operations Records, SEDAC Active Archive, SEDAC Long-Term Archive.	String
SeriesCode	Unique identifier for the record category: SEDAC Active Archive, SEDAC Long-Term Archive, CIESIN Archive, Series 100 CIESIN Records, Series 500 CIESIN Records, Series 600 SEDAC Operations Records, Series 700 SEDAC Active Archive, Series 800 Series Long-Term Archive.	String
Description	Description of the series and keywords.	String
VRIndicator	Category of vital records, if applicable, for the series: Non-Vital Records, Emergency - Operating Records, Legal or Financial Rights, Emergency and Rights Records.	String
VRReviewDate	Date of next review of vital records in series.	Date
Activity	Level of use for series, assignment based on SeriesActivity.	String
ActivityDate	Date when activity for the series was reviewed and assigned.	Date
CutoffDate	Date to cutoff records in series.	Date
AnnualAccum	Estimate of annual accumulation of records in series.	String
AccessStartDate	Date when access to series began.	Date
AccessEndDate	Date when access to series ended.	Date
DeaccessionDate	Date of deaccession for all records in series.	Date
Note	Notes about the series.	String

SeriesActivity Table

SeriesActivity describes usage activity for a series during a given period that may be collected from web server logs, system or application statistics, or similar sources.

SeriesActivityID	Database generated, Primary Key	Integer not null
SeriesID	Foreign Key, Series Table.	Integer not null
PeriodStartDate	Date series activity period began.	Date
PeriodEndDate	Date series activity period ended.	Date
UniqueUserCnt	Number of unique users of series during period.	Integer
TotalUserCnt	Total number of users of series during period.	Integer
Note	Notes about series activity for a given period.	String

Aggregate Table

Aggregate describes a logical unit of objects organized within a series.

AggregateID	Database generated, Primary Key	Integer not null
SeriesID	Foreign Key, Series Table	Integer not null
Title	Title of Aggregate category assignment. For SEDAC Scientific Data Series mission areas: PLUE, ENTRI, EH, MVA, HVA, PFS, ES, EX, IG.	String
AccessStartDate	Date access to aggregate began.	Date
AccessEndDate	Date when access to aggregate ended.	Date
DeaccessionDate	Date of deaccession for all records in aggregate.	Date
Note	Notes about Aggregate.	String

Provenance Table

Provenance describes the history and changes that occur during the entire lifecycle of an object and includes information to facilitate discovery within the system.

ProvenanceID	Database generated, Primary Key	Integer not null
AggregateID	Foreign Key, Aggregate Table	Integer not null
Origin	Description of the creation process of the object.	String
Title	Formal Title that identifies or describes the object.	String
Version	Identification to differentiate object from other versions.	String
PreIngest	Description of pre-ingest processing and custody of object.	String
CreationDate	Date object was completed by Author.	Date
SubmissionDate	Date object was submitted to the archive for ingest.	Date
Citation	Complete citation for object.	String
DesignatedCommunity	Description of designated community of users, potential users, or audience for the object: Human interactions in the environment community, Decision-maker, Learner, Manager, Scientist, Teacher.	String
ReqdPreservationService	Level of preservation service or preservation plan requested by submitter or data provider: Preserve Original Formats; Preserve Content in Supported Formats.	String
ReqdDisseminatnService	Level of dissemination service or dissemination plan requested by submitter or data provider: Restricted dissemination. Public Dissemination.	String
ReasonForCreation	Reason or purpose for creating the described object.	String
CustodyHistory	Chain of custody of object prior to ingest into archive.	String
ReasonForPreservation	Justification for selecting object for preservation in archive.	String
AcquisitionDate	Date original object was acquired by archive.	Date
AcquisitionVolume	Volume of original object acquired by archive.	String
AcquisitionFileInventory	List of all files in original object acquired by archive.	String
ReceivedDate	Date object received by the Archivist.	Date
DeaccessionDate	Date the object was deaccessioned from archive.	Date
AIPVolume	Total Size of the Archival Information Package created by the archive to preserve the Content Information and Associated Material	String
ContentInformationSize	Size of Content Information of the Archival Information Package in Bytes.	Integer
AssociatedMaterialSize	Size of material associated with the Content Information of the AIP in Bytes.	Integer
Functionality	Description of any functional characteristics of the object.	String

AIPFileInventory	List of all filenames and sizes organized by the directory structure.	String
AIPDataDictionary	List of each filename in object with title of document or description for each file, including alternate formats.	String
AIP	All the files within their preservation structure, containing Content Information and Associated Information that has been transformed by the Archive for preservation (location in system if dbms is part of the repository).	String
AIPCreationDate	Date archive created Preservation Master for Archival Information Package.	String
ReceivedSIP	All of the files (within their original structure) received from the provider in the Submission Information Package (SIP) containing the Content Information and all Associated Information for the original object acquired (stored in system if dbms is part of the repository).	String
PreparedSIP	All of the files (within their preservation structure), containing the Content Information and the Associated Information that have been prepared by the Archive for submission to another Archive or Collection (stored in system if dbms is part of the repository).	String
VitalRecordIndicator	Vital Record status of object: Non-Vital Record, Emergency - Operating Record, Legal or Financial Rights Record, Emergency and Rights Record.	String
PermRecordIndicator	Indicator that the record is a Permanent Record: N, Y.	String
RecordCondition	Condition of record.	String
Description	Description of the intellectual content of the object.	String
Methodology	Instruments and techniques used to create the data.	String
Variable	Variables, layouts, and codes used to describe the data.	String
SpatialCoverageDesc	Political or geographical description of spatial coverage.	String
SpatialCoverageNote	Latitude and longitude covered, if available.	String
SpatialResolution	Spatial Resolution.	String
SpatialResolutionNote	Notes on the spatial resolution of the object.	String
SRS	Spatial Reference System used for spatial resolution.	String
BBoxMinX	Minimum X Coordinate (Longitude) for the Bounding Box.	Number
BBoxMinY	Minimum Y Coordinate (Latitude) for the Bounding Box.	Number
BBoxMaxX	Maximum X Coordinate (Longitude) for the Bounding Box.	Number
BBoxMaxY	Maximum Y Coordinate (Latitude) for the Bounding Box.	Number
SpatialCoverage	If database supports native spatial data types, this field should be used to store actual shape of spatial coverage.	Database specific

Retention Table

Retention describes the retention schedule and instructions for the provenance of either an object or a series.

RetentionID	Database generated, Primary Key	Integer not null
ProvenanceID	Foreign Key, Provenance Table, if retention relates to provenance.	Integer not null
SeriesID	Foreign Key, Series Table, if retention relates to series.	Integer not null
Instruction	Instructions for retention or disposition of record or series: Review every Five Years, Retain Indefinitely, Freeze, Transfer to LTA, Retire, Destroy.	String
InstructionReason	Justification for retention instructions on record or series.	String
InstrectionDate	Date instructions were decided for record or series.	Date
InstrectionActDate	Date instructions are to be executed for record or series.	Date
ScheduleDate	Date record or series will be reviewed.	Date
Authority	Name of individual or group deciding on instructions for record or series: SEDAC UWG, LTA Board.	String

TemporalData Table

TemporalData describes temporal aspects of the information in an object and can cover one or more time periods.

TemporalDataID	Database generated, Primary Key	Integer not null
ProvenanceID	Foreign Key, Provenance Table	Integer not null
TCovPrecision	Precision of data used to describe temporal coverage: Year, Month, Day.	String
TCovStart	Start date for data collection.	Date
TCovEnd	End date for data collection.	Date
TCovProjectionTo	Date of temporal coverage projection to a future date.	Date
TresDescription	Description of temporal resolution, time intervals between successive observations, frequency of granule production.	String

Relationship Table

Relationship describes a relationship between two provenances, in the form *FromProvenanceID - Relation - ToProvenanceID*, for example: *1289 - is Derivative of - 158*.

FromProvenanceID	Foreign Key, Provenance Table, part of Primary Key	Integer not null
ToProvenanceID	Foreign Key, Provenance Table, part of Primary Key	Integer not null
Relation	Part of Primary Key. Type of relationship: Subset, Superset, Derivative, Source, Extract, Version, Release, Edition, Integrates Parts, Compliment.	String
RelationStartDate	Date relationship began.	Date
RelationEndDate	Date relationship ended.	Date
Note	Note about the relationship.	String

Identification Table

Identification describes unique identifiers assigned by an authority to the provenance of an object.

IdentificationID	Database generated, Primary Key	Integer not null
ProvenanceID	Foreign Key, Provenance Table	Integer not null
IdentifierType	Type of identifier for which the object has been assigned a unique ID: Global Identifier, TDB ID, UMDB Rec #, DOI, ISBN.	String
IdentifierAssigned	Unique Identifier assigned to an object for an identifier type.	String

ProvReference Table

ProvReference describes a work that references the provenance of an object.

ProvReferenceID	Database generated, Primary Key	Integer not null
ProvenanceID	Foreign Key, Provenance Table	Integer not null
RefAuthor	Names of authors of reference work.	String
RefAuthorRole	Role of authors of reference work (Eds.)	String
RefTitle	Title of reference work.	String
MonographAuthor	Author names of monograph containing reference work.	String
MonogrAuthRole	Role of authors of monograph containing reference work (Eds.)	String
MonographTitle	Title of monograph containing reference work.	String
JournalTitle	Title of journal containing reference work.	String
TranslatedTitle	English translation of title if in another language.	String
Edition	Edition identifier of monograph containing reference work.	String
SubsidiaryAuthor	Names of subsidiary authors if author is an institution.	String
PublicationPlace	Location where reference work is published.	String
Publisher	Name of reference work publisher.	String
PublicationDate	Date reference work was published.	String
PublicationYear	Year when reference work was published.	Integer
CopyrightDate	Date of copyright for reference work.	String
VolumeID	Volume identifier of reference work.	String
IssueID	Issue identifier of reference work.	String
Page	Range of pages of reference work.	String
WorkExtent	Total number of pages of reference work.	String
PackagingMethod	Public accessibility of reference work.	String
SeriesEditor	Editor of series containing reference work.	String
SeriesEditorRole	Role of Editor for series containing reference work.	String
SeriesTitle	Title of series containing reference work.	String
SeriesVolumeID	Volume identifier for series containing reference work.	String
SeriesIssueID	Issue identifier for series containing reference work.	String
DocumentType	Type of reference work. Ex: Journal, Book, Proceedings	String
URL	URL of text or full reference of reference work.	String
Availability	File path or file cabinet if stored, or blank if not available.	String
ISBN	ISBN number for reference work.	String
Note	Note about reference work.	String
RefAbstract	Abstract of reference work.	String
CallNumber	Identifier in classification system (LOC, Dewey, or other).	String
ReferenceType	Use of object by reference work. Ex: Report,	String
RefCitation	Complete bibliographic reference for reference work.	String
RefCitSource	Citation database or service listing reference and date found.	String
RefUseRight	Right or permission to use reference work, citation, or abstract.	String
RefAccessRight	Right/permission to access or link reference work, citation or abstract.	String
DisplayOrder	Order in which reference work will appear in reference list.	Integer Default 1 not null

Property Table

Property describes a property, grouped as parent-child relations, which can be assigned to a provenance.

PropertyID	Database generated, Primary Key	Integer not null
PropertyParentID	Foreign Key, Property Table	Integer not null
PropertyName	Name of the property describing an object: Ingest Status, Ingest Format Processing, Significant Property, DCMI Type, Document Type, Content Type, Subject, Language. For Ingest Status: Under Development by Creator, Being Prepared for Submission, Received by Archivist, Content Review Pending, Content Under Review by Archivist, Content Review Complete, Description Pending, Description Under Review, Description Complete, DOI Assigned, Quality Review Pending, Quality Review Complete, Failed Content Quality Review. Rejected - Data Returned to Creator, Ingested, Destroyed; For Ingest Format Processing: All files Ingested in Supported Formats, Original Non-Supported Formats Only, Original formats and All Files Migrated to Supported Formats; For Significant Properties: Intellectual Content of Text, intellectual content of image; For DCMI Type: Collection, Dataset, Event, Image, Interactive Resource, Moving Image, Physical Object, Service, Software, Sound, Still Image; For Document Type (ISO 19115 Document Type): PresentationFormCode: documentDigital, documentHardcopy, imageDigital, imageHardcopy, mapDigital, mapHardcopy, modelDigital, modelHardcopy, profileDigital, profileHardcopy, tableDigital, tableHardcopy, videoDigital, videoHardcopy; Content Type: Data, Documentation, Permission; Subject thesaurus or controlled vocabulary; Language: English, Spanish.	String not null
PropertyDesc	Description of a property.	String
PropertyStatus	Current status of the property: Valid, Not in Use.	String

ProvenanceProperty Table

ProvenanceProperty describes a property pertaining to the provenance of an object. Normally, the lowest level child of the parent-child relationship is associated with a property. For example, a provenance can be linked to the child, "Received by Archivist", in the context of the parent, "Ingest Status".

ProvenancePropertyID	Database generated, Primary Key	Integer not null
ProvenanceID	Foreign Key, Provenance Table	Integer not null
PropertyID	Foreign Key, Property Table	Integer not null
PPStartDate	Date when property began	Date
PPEndDate	Date when property ended.	Date
Note	Note about property as it pertains to a particular provenance.	String

ProvenanceNote Table

ProvenanceNote describes a note about the provenance of an object.

ProvenanceNoteID	Database generated, Primary Key	Integer not null
ProvenanceID	Foreign Key, Provenance Table	Integer not null
NoteText	Note about the provenance of an object.	String not null
PostedBy	Person who posted the note about the provenance of an object.	String
PostedOn	Date the note was posted.	Date
NoteType	Type of provenance note: Accession, Maintenance, Disposition.	String

OtherTitle Table

OtherTitle describes another title that has been assigned to the provenance of an object.

OtherTitleID	Database generated, Primary Key	Integer not null
ProvenanceID	Foreign Key, Provenance Table	Integer not null
TitleType	Alternate Title, Former Title	String not null
Title	Other title of an object.	String
Note	Note about the other title of an object.	String

Person Table

Person describes a person serving in a role of responsibility or authority for an object.

PersonID	Database generated, Primary Key	Integer not null
ProvenanceID	Foreign Key, Provenance Table	Integer not null
PersonRole	Role of responsible person: Author, Contributor, Recipient, Internal Contact, Accessioner, Originating Organization Technical Contact, Originating Organization Program Contact, Environment Manager, Security Official.	String not null
PersonOrder	Order in which person will appear in a Person Role list, if sorted.	Integer default 1 not null
FirstName	First name of person.	String
LastName	Last name of person.	String not null
Address1	Line 1 of person address.	String
Address2	Line 2 of person address.	String
City	City of person.	String
State	State of person.	String
Country	Country of person.	String
PostalCode	Postal code address for person.	String
Phone	Telephone number for person.	String
Fax	Fax number for person.	String
Email1	Primary e-mail address for person.	String
Email2	Second e-mail address for person.	String
Note	Note about person.	String

Institution Table

Institution describes an institution that is responsible for some aspect of an object.

InstitutionID	Database generated, Primary Key	Integer not null
ProvenanceID	Foreign Key, Provenance Table	Integer not null
InstitutionRole	Role of institution for object. Originating Organization, Program Support.	String not null
InstitutionOrder	Order in which the institution will appear on an institution role list If higher priority has been assigned.	Integer default 1 not null
InstitutionName	Name of institution.	String not null
Address1	Line 1 of institution address.	String
Address2	Line 2 of institution address.	String
City	City of institution.	String
State	State of institution.	String
Country	Country of institution.	String
PostalCode	Postal code for institution address.	String
Phone	Telephone number for institution.	String
Fax	Fax number for institution.	String
Website	Website URL for institution.	String
Note	Note about institution.	String

Document Table

Document describes a document that contains descriptive documentation for an object.

DocumentID	Database generated, Primary Key	Integer not null
ProvenanceID	Foreign Key, Provenance Table	Integer not null
DocumentType	Type of document describing the object: User Manual, User Guide, Variable List, Codebook, Data Layout, Parameter List, User Notes, File Inventory, Installation Instructions, Splash Page.	String
Title	Title of document describing the object.	String not null
ArchivalID	Identifier of the document if recorded as a provenance.	Integer
AccessPoint	URL of access point that disseminates document (http://... ; ftp://...).	String
FileName	Filename of the document.	String
Scheme	Encoding scheme for the document. MARC, EAD, VRA, DC, NISOIMG, LC-AV, TEIHDR (Text Encoding Initiative Header), DDI, FGDC-STD-001-1998, FGDC CSGDM, DIF, ISO 19115, NY State Clearinghouse, Metalite, IEEE LOM, ESRI, Unknown.	String
Language	Language in which the document is written: English, Spanish.	String
AdditionalInfo	Additional information about the document.	String

Distributor Table

Distributor describes an entity that serves as a distributor for a dissemination of one or more objects.

DistributorID	Database generated, Primary Key	Integer not null
DistributorName	Name of the service that distributes a dissemination of an object: CIESIN, Columbia Earth Institute, SEDAC, SEDAC LTA.	String not null
Address1	Line 1 of distributor address.	String
Address2	Line 2 of distributor address.	String
City	City of distributor.	String
State	State of distributor.	String
PostalCode	Postal Code of distributor.	String
Country	Country of distributor.	String
Telephone	Telephone number of distributor.	String
Fax	Fax number of distributor.	String
URL	URL of distributor.	String
Email	Email address of distributor.	String
Website	Website of distributor.	String

Dissemination Table

Dissemination describes the dissemination of a particular instance of one or more objects.

DisseminationID	Database generated, Primary Key	Integer not null
DistributorID	Foreign Key, Distributor Table	Integer not null
Medium	Primary data storage medium for distributing object from dissemination service: CD-ROM, DVD, URN, URL, FTP.	String
PublicAccessPoint	Primary Access Point for distributing object to the public from dissemination service (http://... ; ftp://...).	String
InternalLocation	Path and folder name of location from which object is distributed from internal dissemination service.	String
DissemSize	Size of object disseminated in Bytes	Integer
StartDate	Date dissemination service began disseminating object.	Date
EndDate	Date dissemination service discontinued disseminating object.	Date
DIPDescription	File Inventory of all files included in the Dissemination Information Package (DIP) submitted to dissemination service for distribution.	String
DissemCharge	Amount received from dissemination service for distributing object.	Number
DissemChargeUnit	Monetary unit of DissemCharge.	String
OriginalPublisher	Flag indicating that dissemination is by Original Publisher: N, Y.	String
PrimaryDistributor	Flag indicating that dissemination is by Primary Distributor: N, Y.	String

DissemAltPoint Table

DissemAltPoint describes the alternate access point(s) for a dissemination.

DissemAltPointID	Database generated, Primary Key	Integer not null
DisseminationID	Foreign Key, Dissemination Table	Integer not null
AltAccessPoint	Alternate access point disseminating object (http://... ; ftp://...).	String
StartDate	Date started disseminating object at alternate access point.	Date
EndDate	Date stopped disseminating object at alternate access point..	Date
Note	Note on alternate dissemination point.	String

ProvDissemination Table

ProvDissemination identifies provenances of objects included in a particular dissemination.

ProvDisseminationID	Database generated, Primary Key	Integer not null
DisseminationID	Foreign Key, Dissemination Table, part of Alternate Key	Integer not null
ProvenanceID	Foreign Key, Provenance Table, part of Alternate Key	Integer not null
RootPath	Directory path where object is disseminated within group.	String
StartDate	Date object began being disseminated within group.	date
EndDate	Date object no longer disseminated within group.	date
Note	Note on object dissemination within group.	String

PDFFileList Table

PDFFileList describes the list of files included in a dissemination. Generally, all files will not be included in a particular dissemination.

PDFFileListID	Database generated, Primary Key	Integer not null
ProvDisseminationID	Foreign Key, ProvDissemination Table	Integer not null
FileName	Name of the file listing files disseminated in dissemination.	String
StartDate	Date the listed files were included in dissemination.	date
EndDate	Date the listed files were no longer in dissemination.	date
Note	Note about the list of files included within dissemination.	String

Catalog Table

Catalog describes a catalog service in which a dissemination is described or registered.

CatalogID	Database generated, Primary Key.	Integer not null
CatalogName	Name of the catalog where an object is registered: SEDAC, CIESIN, EDGRS, ESIP, DLESE, NSDL.	String
URL	URL of the catalog where an object is registered.	String
ContactInfo	Contact information for a catalog where an object is registered.	String

CatalogEntry Table

CatalogEntry describes the entry in a catalog for the dissemination of one or more objects.

CatalogEntryID	Database generated, Primary Key.	Integer not null
DisseminationID	Foreign Key, Dissemination Table.	Integer not null
CatalogID	Foreign Key, Catalog Table.	Integer not null
EntryID	Unique Identifier in the catalog for the record describing the object.	String
Submission	Date description of entry was submitted to a catalog.	Date
StartDate	Date catalog entry was available.	Date
EndDate	Date catalog entry was no longer available.	Date
EntryStatus	Status of catalog entry: None, Partial, Complete, Removed.	String
EntryDesc	Description of the dissemination included in the fields of the entry.	String
EntryLastUpdate	Date of the last update to the catalog entry for the object.	Date
Note	Note about the catalog entry for an object.	String

Location Table

Location describes the physical location where archival media is being housed.

LocationID	Database generated, Primary Key	Integer not null
LocType	Type of location. Onsite Offline Archive, Offsite Offline Archive, Onsite Processing, Onsite Network, Onsite Storage Shelves.	String
LocName	Name of the Location. CIESIN Archival Facility, GISS Computer Room, Geoscience Computer Room, Geoscience Storage Room.	String
LocDesc	Description of the archival facilities at the location.	String
LocAGENT	Name of the individual responsible for the location.	String

LocationParam Table

LocationParam describes conditions measured at a location.

LocationParamID	Database generated, Primary Key	Integer not null
LocationID	Foreign Key, Location Table	Integer
ParamName	Name of the parameter measured at the location: Temperature, High Temperature, Low Temperature, Humidity, High Humidity, Low Humidity, Inventory, Recovery Test.	String
ParamValue	Value of the parameter measured at the location.	Number
ParamUnit	Unit of measurement for recorded value measured at location: Degrees Fahrenheit, Percentage.	String
ParamDate	Date and time of measurement.	Date
ParamNote	Note on instrument or parameter measured.	String

Media Table

Media describes archival media that is used to store objects.

MediaID	Database generated, Primary Key	Integer not null
MediaType	Type of media used: CD-ROM, CD-R, DVD-R, DVD+R, Print.	String
MediaBrand	Brand of the media: TDK 700 MB 48x Data CD-R.	String
MediaPurchaseDate	Date the media was purchased.	Date
Note	Note about the media.	String

MediaLocation Table

MediaLocation describes each instance of archival media housed at a particular location.

LocationID	Database generated, Primary Key	Integer not null
MediaID	Foreign Key, Media Table	Integer not null
DepositedOn	Date the archival media was deposited at the location.	Date
RemovedOn	Date the archival media was removed from the location.	Date
Note	Note about the archival media housed at a location.	String

Event Table

Event describes an event for an object stored on an instance of archival media.

EventID	Database generated, Primary Key	Integer not null
MediaID	Foreign Key, Media Table	Integer
EventStatus	Status of the event: Complete, Scheduled, Postponed.	String
Designation	Name of the event: Deposit, Inventory, Audit, Inspection, Virus Check, Media Write, Quality Check, Format Conversion, Removal, Check Out, Bring Forward, Media Request, Media Destruction.	String
Procedure	Procedure completed on media during an event.	String
Location	Location where the event occurred.	String
EventDate	Date and time of event.	Date
Outcome	Description of the event outcome.	String
Note	Note about the event.	String
ResponsiblePerson	Individual responsible for the event.	String
RetrievalRecipient	Individual who received the media.	String
RetrievalRequestor	Individual who requested the media.	String

ProvenanceMedia Table

ProvenanceMedia lists and describes provenances stored on an instance of media. More than one provenance copy can be stored on a single media.

ProvenanceMediaID	Database generated, Primary Key	Integer not null
ProvenanceID	Foreign Key, Provenance Table	Integer
MediaID	Foreign Key, Media Table	Integer not null
MediaCopy	Instance of object stored on media: Preservation Master, Security Master, Duplication Master, Access Service Copy.	String
RootPath	Path and directory of the object on the media.	String
WriteDate	Date the object was written on the media.	Date
DeleteDate	Date the object was deleted from the media.	Date
ValidationProc	Signature type used to generate validation key: MD5, SHA-1.	String
KeyCreationDate	Date validation key was generated.	Date
Result	Hash value, filename, or path and filename of stored validation signature.	String
LastCheckDate	Date validation key generated and compared with original.	Date
NextCheckDate	Date scheduled for validation key comparison.	Date

DataFile Table

DataFile describes aspects of a data file for a provenance copy stored on a particular media.

DataFileID	Database generated, Primary Key	Integer not null
ProvenanceMediaID	Foreign Key, ProvenanceMedia Table	Integer
FileName	Name of the file including its extension.	String
FileSize	Size of the file in bytes.	Integer
ContentType	Type of content in the file: Data, Documentation, Permission, Startup.	String
MarkupType	Type of Markup used to encode contents of file: HTML, SGML, XML.	String
MarkupName	Name of schema and version employed for the MarkupType: TEI DTD, W3C XML.	String
MarkupSchema	Contents of schema used for the Markup Type.	String
FileAccessRight	Access rights or limitations specific to file: Universal Access - unrestricted, Research Use Only, Educational Use Only, Research and Educational Use Only, Non-Commercial Use Only, On-Site Use Only, Signed Confidentiality Agreement Only, Staff Only, Staff Addresses Only, Licensees Only, Domestic IP Addresses Only, No Online Access, No Access Allowed Pending Further Evaluation.	String
ExpofAccessRight	Date access rights or restrictions specific to file expire.	Date
PreservRestrictn	Preservation rights or limitations for preserving file.	String
EncryptionInfo	Description of encryption employed on file.	String
AccessInhibitors	Inhibitors to access inherent to the file: Password protection, AAA watermark.	String
FileType	MIME Media Type for file in format, Content Type/Subtype: application/pdf, audio/mpeg, image/tiff, message/http, model/vrml, multipart/signed, text/html, video/mpeg.	String
FileVersion	Version of the MIME Media Type.	String
FileFormat	Software program used to create the file: Microsoft Word 2000, Microsoft Excel 2000.	String
FormatRegistry	Registry to identify the software program used to create or view the file: Pronom.	String
RegistryEntry	Unique identifier in the Format Registry for the file format.	String
DateModified	Last date and time when file was written or modified.	Date
PreservFormat	File format is a preservation format: Y, N.	String
AltFormat	Alternate or derivative formats that contain contents of file: txt, csv, pdf.	String
OriginalFileID	Foreign key to DataFile.DataFileID. DataFileID for original file from which the file is a derivative.	Integer
OriginalFileName	Filename (and extension) for the original source file from which the file described is a derivative.	String
Creation	Description of the file creation, coded to record file history: Original file received, Migrated file, Archive generated file.	String
History	Description of file history, coded string to record file history: O = Original file received. M = Migrated file. A = Archive generated file. MMO = Migrated file from Migrated file from Original file.	String
RefreshDate	Last date and time file was written to any media.	Date
AccessStartDate	Date when access to file may be granted.	Date
AccesEndDate	Date when access to file ends.	Date
DeaccessionDate	Date when file is deaccessioned from archive.	Date

FilePart Table

FilePart describes a FilePart contained within a data file.

FilePartID	Database generated, Primary Key	Integer not null
DataFileID	Foreign Key, DataFile Table	Integer not null
FilePartType	Type of FilePart: Table, Screenshot, Thumbnail Image, Page Image, Annotation, Transparency Mask, Metadata Text.	String
FilePartLoc	Location or address of FilePart within the file: Unknown.	String
FilePartDesc	Description of FilePart differentiated from file.	String

Environment Table

Environment describes an implementation environment for a data file.

EnvironmentID	Database generated, Primary Key	Integer not null
DataFileID	Foreign Key, DataFile Table	Integer not null
EnvironmentType	Type of environment required for data file: Rendering Software, Display Application, Operating System, Middleware, Hardware CPU, Hardware Peripherals.	String
Title	Title of environment software or hardware required.	String
Description	Description of implementation environment for data file.	String
Documentation	Documentation for the implementation environment.	String
ExpiryDate	Date environment is scheduled to expire or be replaced.	Date

AccessRestriction Table

AccessRestriction describes a security, privacy, safety, or confidentiality restriction pertaining to an object.

AccessRestrictionID	Database generated, Primary Key	Integer not null
ProvenanceID	Foreign Key, Provenance Table	Integer not null
AccessRestriction	Security category or type of restriction: Onsite Use Only - Confidential Data- No Copying, Permission from Project Director Required, Confidentiality Agreement Required - No Copying or Network Access, Project Director only, Universal Access (unrestricted), Research Use Only, Educational Use Only, Research and Educational Use Only, Non-Commercial Use Only, On-Site Use Only, Signed Confidentiality Agreement Only, CU Personnel Only, CU Addresses Only, Domestic IP Addresses Only, No Online Access.	String
AccessRestrictionDesc	Description of restriction on access to object.	String
CurentDeclaration	Confidentiality agreement or user agreement on restriction.	String
SecurityNote	Note about the security restriction on object.	String
SecurityReviewDate	Date security restriction is scheduled for review.	Date
ARStartDate	Date access restriction on object begins.	Date
AREndDate	Date access restriction on object ends.	Date

Decision Table

Decision describes a decision that affects the provenance or dissemination for one or more objects.

DecisionID	Database generated, Primary Key	Integer not null
DecisionType	Type of Decision: Acquisition, Nomination for Dissemination, Nomination for Deaccession, Nomination for Transfer, Nomination for Accession, Dissemination, Disposition, Transfer, Provisional Use, Beta System Dissemination; Production System Dissemination.	String
Decision	Decision about an object for a Decision Type. For Preservation Service: Preserve content, Preserve Original Formats; For SEDAC: Disseminate, Ancillary Product, Transfer to LTA; For SEDAC Acquisition: redistributed 3rd party data, value-added 3rd party data, SEDAC-developed; For LTA: Public Dissemination, Restricted Dissemination; (Others Considered: Under Review, Disseminate, Delete, Remove) The following 7 categories are not mutually exclusive: Delete; Retire; Long-Term Archive; Archive, But Not Disseminate, SEDAC Disseminate by Type: - Subsets Only, - Web Download - Internet Mapping; Missing; Add to SDP; Consolidate.	String
MeetingDate	Date when the decision was made.	Date
DecisionActivDate	Date on which the decision is implemented.	Date
Authority	Authority deciding the status of an object within the archive: CIESIN Director, CIESIN Deputy Director, CIESIN Associate Director for IS, SEDAC UWG, SEDAC Project Manager, SEDAC Lead Project Scientist, SEDAC Archives Manager, SEDAC Archivist, LTA Board, LTA Manager, LTA Archivist.	String
Note	Note of Rationale or Justification for making the decision.	String

ProvenanceDecision Table

ProvenanceDecision describes each provenance affected by a particular decision.

ProvenanceDecisionID	Database generated, Primary Key	Integer not null
ProvenanceID	Foreign Key, Provenance Table	Integer not null
DecisionID	Foreign Key, Decision Table	Integer not null
Note	Note about the decision in reference to a specific provenance.	String

RightOwner Table

RightOwner describes the organization or individual owning a right for an object.

RightOwnerID	Database generated, Primary Key	Integer not null
Entity	Organization that owns right for an object or Public Domain.	String
Signator	Person who signed document authorizing a right for an object.	String
SignatorTitle	Title of signer authorizing a right for an object.	String
SigContactInfo	Contact information for signer authorizing a right for an object.	String
Address1	Line 1 of right owner address.	String
Address2	Line 2 of right owner address.	String
City	City of right owner.	String
State	State of right owner.	String
Country	Country of right owner.	String
PostalCode	Postal code for right owner.	String
Telephone	Telephone number for right owner.	String
Fax	Fax number for right owner.	String
Email	E-mail for right owner.	String
Website	URL of right owner website.	String
Note	Note about right owner.	String

Right Table

Right describes each type of right or intellectual property restriction, independent from provenance or right owner.

RightID	Database generated, Primary Key	Integer not null
RightType	Type of right held: copyright, license, public domain, contract, Permission.	String
RightName	Distribution Right, Usage Right, Preservation Right, Access Right, Print Right.	String
RightDesc	Description of the right and intellectual property restrictions or obligations.	String
Note	Note on rights for object.	String

RightHeld Table

RightHeld describes a right that is held or has been granted for an object.

RightHeldID	Database generated, Primary Key	Integer not null
RightOwnerID	Foreign Key, RightOwner Table	Integer not null
ProvenanceID	Foreign Key, Provenance Table	Integer not null
RightID	Foreign Key, Right Table	Integer not null
RightOrigination	Right granted to others or right received from owner: Granted, Received.	String
CurDeclaration	Content of license, contract, or permission statement.	String
RightDocFile	Filename and directory path of the digital (or scanned) document that authorizes rights for an object.	String
RightDocLoc	Location of original printed license, contract, or permission document: Onsite Archive, Offsite Archive, Storeroom, Not Printed.	String
BeginDate	Date of execution for rights held or date of contract if not specified.	Date
ExpiryDate	Date of expiration for rights held or null if no expiration date.	Date
Receiver	Person who signed document (or agreed to conditions) and is authorized representative to acquire or use object.	String
Cost	Cost to acquire object or rights to object.	Number
CostUnit	Monetary unit for cost to acquire object or rights to object.	String
Note	Note on right held for an object.	String
RightBrief	Brief description of right held and intended usage group or purpose: Use and distribute freely, Use and distribute only within organization, Distribute for research or educational purposes, Third party distribution, Research use only, Educational use only, Non-commercial use only, Staff use only.	String
Request	Request for rights, including the reason to justify authorization.	String

References

- Cabinet Office, Office of the Envoy. e-Government Metadata Standard Version 3.0, April 29, 2004. Available Online: <http://www.govtalk.gov.uk/schemasstandards/metadata.asp>
- Consultative Committee for Space Data Systems. Producer-Archive Interface Methodology Abstract CCSDS 651.0-R-1. December 2002. Available Online: <http://ssdoo.gsfc.nasa.gov/nost/isoas/CCSDS-651.0-R-1-draft.pdf>
- Consultative Committee for Space Data Systems. Reference Model for an Open Archival Information System (OAIS) CCSDS 650.0-B-1. January 2002. Adopted as: Space data and information transfer systems - Open archival information system - Reference model (ISO 14721:2003). Available Online: <http://www.ccsds.org/documents/650x0b1.pdf>
- Cornwell Management Consultants plc. Model Requirements for the Management of Electronic Records: MoReq. IDA Programme of the European Commission. March 2001 Available Online: <http://www.cornwell.co.uk/moreq.html>
- Department of Defense Records Management Program. DOD 5015.2-STD Design Criteria Standard for Electronic Records Management Software Applications. Washington, DC. June 19, 2002. Available Online: <http://jitic.fhu.disa.mil/recmgt/standards.html>
- Downs, R. R. & Chen, R. S. (in draft). Organizational Needs for Managing and Preserving Geospatial Data and Related Electronic Records.
- Dublin Core Metadata Initiative Metadata Terms. Adopted as Information and documentation – The Dublin Core metadata element set (ISO 15836:2003) and as The Dublin Core Metadata Element Set (ANSI/NISO Z39.85-2001). Dublin Core Metadata Initiative. 2003. Available Online: <http://www.dublincore.org/>
- Federal Geographic Data Committee. FGDC-STD-001-1998. Content Standard for Digital Geospatial Metadata. June 1998. Federal Geographic Data Committee. Washington, D.C. Available Online: <http://www.fgdc.gov/metadata/contstan.html>
- Florida Center for Library Automation. FCLA Digital Archive Data Dictionary. November 30, 2004. Available Online: <http://www.fcla.edu/digitalArchive/index.html>
- Global Change Master Directory. National Aeronautics and Space Administration. Directory Interchange Format (DIF) Writer's Guide, Version 9.4. 2005. Available Online: <http://gcmd.nasa.gov/User/difguide/>
- Harvard University Library. DRS Documentation: Administrative Metadata for Digital Still Images, version 1.3. March 2004. Available Online: <http://preserve.harvard.edu/resources/imagemetadata.pdf>

- IFLA Cataloguing Section, Working Group on Metadata Schemas. Guidance on the Structure, Content, and Application of Metadata Records for Digital Resources and Collections. Draft October 2003. Available Online: <http://www.ifla.org/VII/s13/guide/metaguide03.pdf>
- International Organization for Standards. ISO 19115:2003(E) Geographic Information Metadata. 2003. Available Online: <http://www.iso.org/>
- Jewell, T. D., Anderson, I., Chandler, A., Farb, S. E., Parker, K., Riggio, A. and Robertson, N. D. M. Electronic Resource Management: The Report of the DLF Initiative. Digital Library Federation. August 2004. Available Online: <http://www.diglib.org/pubs/dlfermi0408/>
- Library of Congress. Table of Core Metadata Elements for Library of Congress Digital Repository Development. In: Library of Congress Digital Repository Development: Core Metadata Elements. January 28, 2000. Available Online: <http://www.loc.gov/standards/metadata.html>
- Library of Congress. National Digital Library Program - Digital Repository Development Project. Structural Metadata Dictionary for LC Digitized Material. Version 1.03. January 29, 1999. Available Online: <http://memory.loc.gov/ammem/techdocs/repository/structmeta.html>
- Library of Congress, Network Development and MARC Standards Office. Metadata Object Description Schema (MODS) version 3.0. December 5, 2003. Available online: <http://www.loc.gov/standards/mods/>
- McDonough, J. METS: Metadata Encoding and Transmission Standard. Digital Library Federation. Version 1.4. May 1, 2004. Available Online: <http://www.loc.gov/standards/mets/mets.xsd>
- National Archives and Records Administration. NARA Regulations in the Code of Federal Regulations (CFR), Subchapter B, Records Management, Part 1234, Electronic Records Management. May 16, 2001. Available Online: http://www.archives.gov/about_us/regulations/part_1234.html
- National Archives and Records Administration. NARA Regulations in the Code of Federal Regulations (CFR), Subchapter B, Records Management, Part 1228, Disposition of Federal Records. January 14, 2005. Available Online: http://www.archives.gov/about_us/regulations/part_1228.html
- National Library of Australia. Preservation Metadata for Digital Collections: Exposure Draft. October 15, 1999. Available Online: <http://www.nla.gov.au/preserve/pmeta.html>
- National Library of New Zealand. Metadata Standards Framework, Preservation Metadata. Revised June 2003. Available Online: http://www.natlib.govt.nz/files/4initiatives_metaschema_revised.pdf
- Data Dictionary for Preservation Metadata: Final Report of the PREMIS Working Group. May 2005. Online Computer Library Center (OCLC) and Research Libraries Group (RLG). Available Online: <http://www.oclc.org/research/projects/pmwg/premis-final.pdf>

Online Computer Library Center (OCLC) and Research Libraries Group (RLG). Data Dictionary for Preservation Metadata: Final Report of the PREMIS Working Group. May 2005. Available Online: <http://www.oclc.org/research/projects/pmwg/premis-final.pdf>

OCLC/RLG Working Group on Preservation Metadata. Preservation Metadata for Digital Objects: A Review of the State of the Art. January 31, 2001. Available Online: http://www.oclc.org/digitalpreservation/presmeta_wp.pdf

OCLC/RLG Working Group on Preservation Metadata. Preservation Metadata and the OAIS Information Model: A Metadata Framework to Support the Preservation of Digital Objects. June 2002. Available Online: <http://www.oclc.org/research/pmwg/>

Schaffner, P., Vlahakis, N. M., Pitti, D., Nielsen, J., & McDonough, J. Data Documentation Initiative Codebook DTD. Version 2.0, March 7, 2003. Available Online: <http://www.icpsr.umich.edu/DDI/>

University of Leeds. Cedars Guide to Preservation Metadata. March 2002. Available Online: <http://www.leeds.ac.uk/cedars/guideto/metadata/guidetometadata.pdf>

Appendix

Crosswalk:

Data Model for Managing and Preserving Geospatial Electronic Records to e-Government Metadata Standard Version 3.0, 4/29/2004. Cabinet Office, Office of the Envoy, Technology Policy Team, Interoperability Policy Advisor. Office of the Envoy. <http://www.govtalk.gov.uk/schemasstandards/metadata.asp>

Field	Definition	e-Government Metadata
Collection.CollectionID	Database generated, Primary Key	
Collection.Title	Title for a Collection: CIESIN Archive, SEDAC Scientific Data Archives, specific project Archive.	
Collection.Description	Description of the collection and keywords.	
Collection.AccessReqmnt	Requirements for accessing the collection: Object Specific Requirements, CMB Approval, Systems Manager Approval.	
Collection.InstallReqmnt	Requirements for installation of collection	
Collection.SizeReqmnt	Storage volume requirement for collection, automatically calculated.	
Collection.AccessInhibitor	Method(s) employed to inhibit access to collection that could affect preservation, such as encryption or watermarking.	
Collection.FindingAid	Method used to facilitate discovery of collection.	
Collection.PresrvPermission	Statement of permission to copy collection or migrate to various formats for preservation.	
Collection.RelationDesc	Description of relationships, relevant for preservation, between collection and other objects or collections.	
Collection.Quirk	Characteristic that could degrade functionality or aspects of the collection.	
Collection.Purpose	Purpose and reason for archiving the collection: Funding Agency Requirement; Scientific Value; Historical value; Fiduciary responsibility.	
Collection.DecisionDate	Date of decision to archive the collection.	
Collection.AccessStartDate	Date access was provided to collection.	
Collection.AccessEndDate	Date when access to collection ended.	
Collection.DeaccessionDate	Date collection is	

	deaccessioned by archive.	
Collection.Note	Notes about collection.	
Series.SeriesID	Database generated, Primary Key	
Series.CollectionID	Foreign Key, Collection Table	
Series.Title	Title of a record series category within a Collection: CIESIN Administrative Records, CIESIN Records Common to All Projects, CIESIN Scientific Data, SEDAC Operations Records, SEDAC Active Archive, SEDAC Long- Term Archive.	
Series.SeriesCode	Unique identifier for the record category: SEDAC Active Archive, SEDAC Long-Term Archive, CIESIN Archive, Series 100 CIESIN Records, Series 500 CIESIN Records, Series 600 SEDAC Operations Records, Series 700 SEDAC Active Archive, Series 800 Series Long- Term Archive.	Identifier.Fileplan ID
Series.Description	Description of the series.	
Series.VRIndicator	Category of vital records, if applicable, for the series: Non-Vital Records, Emergency - Operating Records, Legal or Financial Rights, Emergency and Rights Records.	
Series.VRReviewDate	Date of next review of vital records in series.	
Series.Activity	Level of use for series, assignment based on SeriesActivity.	
Series.ActivityDate	Date when activity for the series was reviewed and assigned.	
Series.CutoffDate	Date to cutoff records in series.	Date.Cut-off Date
Series.AnnualAccum	Estimate of annual accumulation of records in series.	
Series.AccessStartDate	Date when access to series began.	
Series.EndDate	Date when access to series ended.	
Series.DeaccessionDate	Date of deaccession for all records in series.	
Series.Note	Notes about the series.	
SeriesActivity.SeriesActivityID	Database generated, Primary Key	
SeriesActivity.SeriesID	Foreign Key, Series Table.	

SeriesActivity.PeriodStartDate	Date series activity period began.	
SeriesActivity.PeriodEndDate	Date series activity period ended.	
SeriesActivity.UniqueUserCnt	Number of unique users of series during period.	
SeriesActivity.TotalUserCnt	Total number of users of series during period.	
SeriesActivity.Note	Notes about series activity for a given period.	
Aggregate.AggregateID	Database generated, Primary Key	
Aggregate.SeriesID	Foreign Key, Series Table	
Aggregate.Title	Title of Aggregate category assignment. For SEDAC Scientific Data Series mission areas: PLUE, ENTRI, EH, MVA, HVA, AFS, ES, EX, IG.	Aggregation
Aggregate.AccessStartDate	Date access to aggregate began.	
Aggregate.AccessEndDate	Date when access to aggregate ended.	
Aggregate.DeaccessionDate	Date of deaccession for all records in aggregate.	
Provenance.ProvenanceID	Database generated, Primary Key	Identifier.System ID
Provenance.AggregateID	Foreign Key, Aggregate Table	
Provenance.Origin	Description of the creation process of the object.	
Provenance.Title	Formal Title that identifies or describes the object.	Title
Provenance.Version	Identification to differentiate object from other versions.	
Provenance.PreIngest	Description of pre-ingest processing and custody of object.	
Provenance.CreationDate	Date object was completed by Author.	Date.Created
Provenance.SubmissionDate	Date object was submitted to the archive for ingest.	Date.Date Submitted
Provenance.Citation	Complete citation for object.	Identifier.Bibliographic citation
Provenance.DesignatedCommunity	Description of designated community of users, potential users, or audience for the object: Human interactions in the environment community, Decision-maker, Learner, Manager, Scientist, Teacher.	Audience
Provenance.ReqdPreservationService	Level of preservation service or preservation plan requested by submitter or data provider: Preserve Original Formats; Preserve Content in Supported	

	Formats.	
Provenance.ReqDisseminatnService	Level of dissemination service or dissemination plan requested by submitter or data provider: Restricted dissemination. Public Dissemination.	
Provenance.ReasonForCreation	Reason or purpose for creating the described object.	Subject.Programme Subject.Project
Provenance.CustodyHistory	Chain of custody of object prior to ingest into archive.	
Provenance.ReasonForPreservation	Justification for selecting object for preservation in archive.	
Provenance.AcquisitionDate	Date original object was acquired by archive.	Date.Acquired
Provenance.AcquisitionVolume	Volume of original object acquired by archive.	
Provenance.AcquisitionFileInventory	List of all files in original object acquired by archive.	
Provenance.ReceivedDate	Date object received by the Archivist.	Date.Date Accepted
Provenance.DeaccessionDate	Date the object was deaccessioned from archive.	Date.Closed
Provenance.AIPVolume	Total Size of the Archival Information Package created by the archive to preserve the Content Information and Associated Material	Format.Extent
Provenance.ContentInformationSize	Size of Content Information of the Archival Information Package in Bytes.	
Provenance.AssociatedMaterialSize	Size of material associated with the Content Information of the AIP in Bytes.	
Provenance.Functionality	Description of any functional characteristics of the object.	
Provenance.AIPFileInventory	List of all filenames and sizes organized by the directory structure.	
Provenance.AIPDataDictionary	List of each filename in object with title of document or description for each file, including alternate formats.	
Provenance.AIP	All the files within their preservation structure, containing Content Information and Associated Information that has been transformed by the Archive for preservation (location in system if dbms is part of the repository).	
Provenance.AIPCreationDate	Date archive created Preservation Master for Archival Information	Date.Declared

	Package.	
Provenance.ReceivedSIP	All of the files (within their original structure) received from the provider in the Submission Information Package (SIP) containing the Content Information and all Associated Information for the original object acquired (stored in system if dbms is part of the repository).	
Provenance.PreparedSIP	All of the files (within their preservation structure), containing the Content Information and the Associated Information that have been prepared by the Archive for submission to another Archive or Collection (stored in system if dbms is part of the repository).	
Provenance.VitalRecordIndicator	Vital Record status of object: Non-Vital Record, Emergency - Operating Record, Legal or Financial Rights Record, Emergency and Rights Record.	
Provenance.PermRecordIndicator	Indicator that the record is a Permanent Record: N, Y.	
Provenance.RecordCondition	Condition of record.	
Provenance.Description	Description of the intellectual content of the object.	Description Subject.Person
Provenance.Methodology	Instruments and techniques used to create the data.	
Provenance.Variable	Variables, layouts, and codes used to describe the data.	
Provenance.SpatialCoverageDesc	Political or geographical description of spatial coverage.	Coverage.Spatial
Provenance.SpatialCoverageNote	Latitude and longitude covered, if available.	
Provenance.SpatialResolution	Spatial Resolution.	
Provenance.SpatialResolutionNote	Notes on the spatial resolution of the object.	
Provenance.SRS	Spatial Reference System used for spatial resolution.	
Provenance.BBoxMinX	Minimum X Coordinate (Longitude) for the Bounding Box.	
Provenance.BBoxMinY	Minimum Y Coordinate (Latitude) for the Bounding Box.	
Provenance.BBoxMaxX	Maximum X Coordinate (Longitude) for the Bounding Box.	
Provenance.BBoxMaxY	Maximum Y Coordinate (Latitude) for the Bounding	

	Box.	
Provenance.SpatialCoverage	If database supports native spatial data types, this field should be used to store actual shape of spatial coverage.	
Retention.RetentionID	Database generated, Primary Key	Disposal.Schedule ID
Retention.ProvenanceID	Foreign Key, Provenance Table, if retention relates to provenance.	
Retention.SeriesID	Foreign Key, Series Table, if retention relates to series.	
Retention.Instruction	Instructions for retention or disposition of record or series: Review every Five Years, Retain Indefinitely, Freeze, Transfer to LTA, Retire, Destroy.	Disposal.Action Disposal. Disposal Conditions Disposal.Export destination Disposal.Disposal Time Period
Retention.InstructionReason	Justification for retention instructions on record or series.	Disposal.Comment
Retention.InstrctnDate	Date instructions were decided for record or series.	Disposal.Date of last review
Retention.InstrctnActDate	Date instructions are to be executed for record or series.	Disposal.Date
Retention.ScheduleDate	Date record or series will be reviewed.	Disposal.Review
Retention.Authority	Name of individual or group deciding on instructions for record or series: SEDAC UWG, LTA Board.	Disposal.Authorised by
TemporalData.TemporalDataID	Database generated, Primary Key	
TemporalData.ProvenanceID	Foreign Key, Provenance Table	
TemporalData.TCovPrecision	Precision of data used to describe temporal coverage: Year, Month, Day.	
TemporalData.TCovStart	Start date for data collection.	
TemporalData.TCovEnd	End date for data collection.	
TemporalData.TCovProjectionTo	Date of temporal coverage projection to a future date.	
TemporalData.TresDescription	Description of temporal resolution, time intervals between successive observations, frequency of granule production.	Coverage.Temporal
Relationship.FromProvenanceID	Foreign Key, Provenance Table, part of Primary Key	
Relationship.ToProvenanceID	Foreign Key, Provenance Table, part of Primary Key	
Relationship.Relation	Part of Primary Key. Type of relationship: Subset, Superset, Derivative,	Relation.Has format Relation.Has version Relation.Has part

	Source, Extract, Version, Release, Edition, Integrates Parts, Compliment.	Relation.Is format of Relation.Is part of Relation.Is referenced by Relation.Is version of Relation.Is required by Relation.Is replaced by Relation.Redaction Relation.References Relation.Replaces Source
Relationship.RelationStartDate	Date relationship began.	
Relationship.RelationEndDate	Date relationship ended.	
Relationship.Note	Note about the relationship.	Relation.Reason for redaction
Identification.IdentificationID	Database generated, Primary Key	
Identification.ProvenanceID	Foreign Key, Provenance Table	
Identification.IdentifierType	Type of identifier for which the object has been assigned a unique ID: Global Identifier, TDB ID, UMDB Rec #, DOI, ISBN.	
Identification.IdentifierAssigned	Unique Identifier assigned to an object for an identifier type.	Identifier.Case ID
ProvReference.ProvReferenceID	Database generated, Primary Key	
ProvReference.ProvenanceID	Foreign Key, Provenance Table	
ProvReference.RefAuthor	Names of authors of reference work.	
ProvReference.RefAuthorRole	Role of authors of reference work (Eds.)	
ProvReference.RefTitle	Title of reference work.	
ProvReference.MonographAuthor	Author names of monograph containing reference work.	
ProvReference.MonographAuthRole	Role of authors of monograph containing reference work (Eds.)	
ProvReference.MonographTitle	Title of monograph containing reference work.	
ProvReference.JournalTitle	Title of journal containing reference work.	
ProvReference.TranslatedTitle	English translation of title if in another language.	
ProvReference.Edition	Edition identifier of monograph containing reference work.	
ProvReference.SubsidiaryAuthor	Names of subsidiary authors if author is an institution.	
ProvReference.PublicationPlace	Location where reference work is published.	
ProvReference.Publisher	Name of reference work publisher.	
ProvReference.PublicationDate	Date reference work was published.	

ProvReference.PublicationYear	Year when reference work was published.	
ProvReference.CopyrightDate	Date of copyright for reference work.	
ProvReference.VolumeID	Volume identifier of reference work.	
ProvReference.IssueID	Issue identifier of reference work.	
ProvReference.Page	Range of pages of reference work.	
ProvReference.WorkExtent	Total number of pages of reference work.	
ProvReference.PackagingMethod	Public accessibility of reference work.	
ProvReference.SeriesEditor	Editor of series containing reference work.	
ProvReference.SeriesEditorRole	Role of Editor for series containing reference work.	
ProvReference.SeriesTitle	Title of series containing reference work.	
ProvReference.SeriesVolumeID	Volume identifier for series containing reference work.	
ProvReference.SeriesIssueID	Issue identifier for series containing reference work.	
ProvReference.DocumentType	Type of reference work. Ex: Journal, Book, Proceedings	
ProvReference.URL	URL of text or full reference of reference work.	
ProvReference.Availability	File path or file cabinet if stored, or blank if not available.	
ProvReference.ISBN	ISBN number for reference work.	
ProvReference.Note	Note about reference work.	
ProvReference.RefAbstract	Abstract of reference work.	
ProvReference.CallNumber	Identifier in classification system (LOC, Dewey, or other).	
ProvReference.ReferenceType	Use of object by reference work. Ex: Report,	
ProvReference.RefCitation	Complete bibliographic reference for reference work.	Relation.Is referenced by
ProvReference.RefCitSource	Citation database or service listing reference and date found.	
ProvReference.RefUseRight	Right or permission to use reference work, citation, or abstract.	
ProvReference.RefAccessRight	Right/permission to access or link reference work, citation or abstract.	
ProvReference.DisplayOrder	Order in which reference work will appear in reference list.	
Property.PropertyID	Database generated, Primary Key	
Property.PropertyParentID	Foreign Key, Property Table	

Property.PropertyName	<p>Name of the property describing an object: Ingest Status, Ingest Format Processing, Significant Property, DCMI Type, Document Type, Content Type, Subject, Language. For Ingest Status: Under Development by Creator, Being Prepared for Submission, Received by Archivist, Content Review Pending, Content Under Review by Archivist, Content Review Complete, Description Pending, Description Under Review, Description Complete, DOI Assigned, Quality Review Pending, Quality Review Complete, Failed Content Quality Review. Rejected - Data Returned to Creator, Ingested, Destroyed; For Ingest Format Processing: All files Ingested in Supported Formats, Original Non-Supported Formats Only, Original formats and All Files Migrated to Supported Formats; For Significant Properties: Intellectual Content of Text, intellectual content of image; For DCMI Type: Collection, Dataset, Event, Image, Interactive Resource, Moving Image, Physical Object, Service, Software, Sound, Still Image; For Document Type (ISO 19115 Document Type): PresentationFormCode: documentDigital, documentHardcopy, imageDigital, imageHardcopy, mapDigital, mapHardcopy, modelDigital, modelHardcopy, profileDigital, profileHardcopy, tableDigital, tableHardcopy, videoDigital, videoHardcopy; Content Type: Data, Documentation, Permission; Subject thesaurus or controlled vocabulary; Language: English, Spanish.</p>	<p>Disposal.Disposal Export Status Subject.Category Subject.Keyword Subject.Process Identifier Language Type</p>
Property.PropertyDesc	Description of a property.	

Property.PropertyStatus	Current status of the property: Valid, Not in Use.	
Provenance_Property.ProvenancePropertyID	Database generated, Primary Key	
Provenance_Property.ProvenanceID	Foreign Key, Provenance Table	
Provenance_Property.PropertyID	Foreign Key, Property Table	
Provenance_Property.PPStartDate	Date when property began	
Provenance_Property.PPEndDate	Date when property ended.	
Provenance_Property.Note	Note about property as it pertains to a particular provenance.	
ProvenanceNote.ProvenanceNoteID	Database generated, Primary Key	
ProvenanceNote.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceNote.NoteText	Note about the provenance of an object.	
ProvenanceNote.PostedBy	Person who posted the note about the provenance of an object.	
ProvenanceNote.PostedOn	Date the note was posted.	
ProvenanceNote.NoteType	Type of provenance note: Accession, Maintenance, Disposition.	
OtherTitle.OtherTitleID	Database generated, Primary Key	
OtherTitle.ProvenanceID	Foreign Key, Provenance Table	
OtherTitle.TitleType	Alternate Title, Former Title	Relation.Provides Definition of
OtherTitle.Title	Other title of an object.	Title.Alternative Title
OtherTitle.Note	Note about the other title of an object.	
Person.PersonID	Database generated, Primary Key	
Person.ProvenanceID	Foreign Key, Provenance Table	
Person.PersonRole	Role of responsible person: Author, Contributor, Recipient, Internal Contact, Accessioner, Originating Organization Technical Contact, Originating Organization Program Contact, Environment Manager, Security Official.	Addressee Contributor Creator
Person.PersonOrder	Order in which person will appear in a Person Role list, if sorted.	
Person.FirstName	First name of person.	
Person.LastName	Last name of person.	
Person.Address1	Line 1 of person address.	
Person.Address2	Line 2 of person address.	
Person.City	City of person.	

Person.State	State of person.	
Person.Country	Country of person.	
Person.PostalCode	Postal code address for person.	
Person.Phone	Telephone number for person.	
Person.Fax	Fax number for person.	
Person.Email1	Primary e-mail address for person.	
Person.Email2	Second e-mail address for person.	
Person.Note	Note about person.	
Institution.InstitutionID	Database generated, Primary Key	
Institution.ProvenanceID	Foreign Key, Provenance Table	
Institution.InstitutionRole	Role of institution for object. Originating Organization, Program Support.	Mandate.Authorising Statute
Institution.InstitutionOrder	Order in which the institution will appear on an institution role list If higher priority has been assigned.	
Institution.InstitutionName	Name of institution.	
Institution.Address1	Line 1 of institution address.	
Institution.Address2	Line 2 of institution address.	
Institution.City	City of institution.	
Institution.State	State of institution.	
Institution.Country	Country of institution.	
Institution.PostalCode	Postal code for institution address.	
Institution.Phone	Telephone number for institution.	
Institution.Fax	Fax number for institution.	
Institution.Website	Website URL for institution.	
Institution.Note	Note about institution.	
Document.DocumentID	Database generated, Primary Key	
Document.ProvenanceID	Foreign Key, Provenance Table	
Document.DocumentType	Type of document describing the object: User Manual, User Guide, Variable List, Codebook, Data Layout, Parameter List, User Notes, File Inventory, Installation Instructions, Splash Page.	
Document.Title	Title of document describing the object.	
Document.ArchivalID	Identifier of the document if recorded as a provenance.	
Document.AccessPoint	URL of access point that disseminates document (http://...; ftp://...).	
Document.FileName	Filename of the document.	
Document.Scheme	Encoding scheme for the document. MARC, EAD,	

	VRA, DC, NISOIMG, LC-AV, TEIHDR (Text Encoding Initiative Header), DDI, FGDC-STD-001-1998, FGDC CSGDM, DIF, ISO 19115, NY State Clearinghouse, Metalite, IEEE LOM, ESRI, Unknown.	
Document.Language	Language in which the document is written: English, Spanish.	
Document.AdditionalInfo	Additional information about the document.	
Distributor.DistributorID	Database generated, Primary Key	
Distributor.DistributorName	Name of the service that distributes a dissemination of an object: CIESIN, Columbia Earth Institute, SEDAC, SEDAC LTA.	Publisher
Distributor.Address1	Line 1 of distributor address.	
Distributor.Address2	Line 2 of distributor address.	
Distributor.City	City of distributor.	
Distributor.State	State of distributor.	
Distributor.PostalCode	Postal Code of distributor.	
Distributor.Country	Country of distributor.	
Distributor.TelePhone	Telephone number of distributor.	
Distributor.Fax	Fax number of distributor.	
Distributor.URL	URL of distributor.	
Distributor.Email	Email address of distributor.	
Distributor.Website	Website of distributor.	
Dissemination.DisseminationID	Database generated, Primary Key	
Dissemination.DistributorID	Foreign Key, Distributor Table	
Dissemination.Medium	Primary data storage medium for distributing object from dissemination service: CD-ROM, DVD, URN, URL, FTP.	
Dissemination.PublicAccessPoint	Primary Access Point for distributing object to the public from dissemination service (http://... ; ftp://...).	
Dissemination.InternalLocation	Path and folder name of location from which object is distributed from internal dissemination service.	
Dissemination.DissemSize	Size of object disseminated in Bytes	
Dissemination.StartDate	Date dissemination service began disseminating object.	Date.Issued
Dissemination.EndDate	Date dissemination service discontinued disseminating object.	

Dissemination.DIPDescription	File Inventory of all files included in the Dissemination Information Package (DIP) submitted to dissemination service for distribution.	
Dissemination.DissemCharge	Amount received from dissemination service for distributing object.	
Dissemination.DissemChargeUnit	Monetary unit of DissemCharge.	
Dissemination.OriginalPublisher	Flag indicating that dissemination is by Original Publisher: N, Y.	
Dissemination.PrimaryDistributor	Flag indicating that dissemination is by Primary Distributor: N. Y.	
DissemAltPoint.DissemAltPointID	Database generated, Primary Key	
DissemAltPoint.DisseminationID	Foreign Key, Dissemination Table	
DissemAltPoint.AltAccessPoint	Alternate access point disseminating object (http://...; ftp://...).	
DissemAltPoint.StartDate	Date started disseminating object at alternate access point.	
DissemAltPoint.EndDate	Date stopped disseminating object at alternate access point..	
DissemAltPoint.Note	Note on alternate dissemination point.	
ProvDissemination.ProvDisseminationID	Database generated, Primary Key	
ProvDissemination.DisseminationID	Foreign Key, Dissemination Table, part of Alternate Key	
ProvDissemination.ProvenanceID	Foreign Key, Provenance Table, part of Alternate Key	
ProvDissemination.RootPath	Directory path where object is disseminated within group.	
ProvDissemination.StartDate	Date object began being disseminated within group.	
ProvDissemination.EndDate	Date object no longer disseminated within group.	
ProvDissemination.Note	Note on object dissemination within group.	
PDFileList.PDFileListID	Database generated, Primary Key	
PDFileList.ProvDissemID	Foreign Key, ProvDissemination Table	
PDFileList.FileName	Name of the file listing files disseminated in dissemination.	
PDFileList.StartDate	Date the listed files were included in dissemination.	
PDFileList.EndDate	Date the listed files were no longer in dissemination.	

PDFFileList.Note	Note about the list of files included within dissemination.	
Catalog.CatalogID	Database generated, Primary Key.	
Catalog.CatalogName	Name of the catalog where an object is registered: SEDAC, CIESIN, EDGRS, ESIP, DLESE, NSDL.	
Catalog.URL	URL of the catalog where an object is registered.	
Catalog.ContactInfo	Contact information for a catalog where an object is registered.	
CatalogEntry.CatalogEntryID	Database generated, Primary Key.	
CatalogEntry.DisseminationID	Foreign Key, Dissemination Table.	
CatalogEntry.CatalogID	Foreign Key, Catalog Table.	
CatalogEntry.EntryID	Unique Identifier in the catalog for the record describing the object.	
CatalogEntry.Submission	Date description of entry was submitted to a catalog.	
CatalogEntry.StartDate	Date catalog entry was available.	
CatalogEntry.EndDate	Date catalog entry was no longer available.	
CatalogEntry.EntryStatus	Status of catalog entry: None, Partial, Complete, Removed.	
CatalogEntry.EntryDesc	Description of the dissemination included in the fields of the entry.	
CatalogEntry.EntryLastUpdate	Date of the last update to the catalog entry for the object.	
CatalogEntry.Note	Note about the catalog entry for an object.	
Location.LocationID	Database generated, Primary Key	
Location.LocType	Type of location. Onsite Offline Archive, Offsite Offline Archive, Onsite Processing, Onsite Network, Onsite Storage Shelves.	
Location.LocName	Name of the Location. CIESIN Archival Facility, GISS Computer Room, Geoscience Computer Room, Geoscience Storage Room.	
Location.LocDesc	Description of the archival facilities at the location.	
Location.LocAGENT	Name of the individual responsible for the location.	

LocationParam.LocationParamID	Database generated, Primary Key	
LocationParam.LocationID	Foreign Key, Location Table	
LocationParam.ParamName	Name of the parameter measured at the location: Temperature, High Temperature, Low Temperature, Humidity, High Humidity, Low Humidity, Inventory, Recovery Test.	
LocationParam.ParamValue	Value of the parameter measured at the location.	
LocationParam.ParamUnit	Unit of measurement for recorded value measured at location: Degrees Fahrenheit, Percentage.	
LocationParam.ParamDate	Date and time of measurement.	
LocationParam.ParamNote	Note on instrument or parameter measured.	
Media.MediaID	Database generated, Primary Key	
Media.MediaType	Type of media used: CD- ROM, CD-R, DVD-R, DVD+R, Print.	Format.Medium
Media.MediaBrand	Brand of the media: TDK 700 MB 48x Data CD-R.	
Media.MediaPurchaseDate	Date the media was purchased.	
Media.Note	Note about the media.	
Media_Location.LocationID	Database generated, Primary Key	
Media_Location.MediaID	Foreign Key, Media Table	Location.Home location
Media_Location.DepositedOn	Date the archival media was deposited at the location.	
Media_Location.RemovedOn	Date the archival media was removed from the location.	
Media_Location.Note	Note about the archival media housed at a location.	
Event.EventID	Database generated, Primary Key	
Event.MediaID	Foreign Key, Media Table	
Event.EventStatus	Status of the event: Complete, Scheduled, Postponed.	
Event.Designation	Name of the event: Deposit, Inventory, Audit, Inspection, Virus Check, Media Write, Quality Check, Format Conversion, Removal, Check Out, Bring Forward, Media Request, Media Destruction.	
Event.Procedure	Procedure completed on	

	media during an event.	
Event.Location	Location where the event occurred.	
Event.EventDate	Date and time of event.	
Event.Outcome	Description of the event outcome.	
Event.Note	Note about the event.	
Event.ResponsiblePerson	Individual responsible for the event.	
Event.RetrievalRecipient	Individual who received the media.	Location.Current location
Event.RetrievalRequestor	Individual who requested the media.	
ProvenanceMedia.ProvenanceMediaID	Database generated, Primary Key	
ProvenanceMedia.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceMedia.MediaID	Foreign Key, Media Table	
ProvenanceMedia.MediaCopy	Instance of object stored on media: Preservation Master, Security Master, Duplication Master, Access Service Copy.	
ProvenanceMedia.RootPath	Path and directory of the object on the media.	
ProvenanceMedia.WriteDate	Date the object was written on the media.	
ProvenanceMedia.DeleteDate	Date the object was deleted from the media.	
ProvenanceMedia.ValidationProc	Signature type used to generate validation key: MD5, SHA-1.	
ProvenanceMedia.KeyCreationDate	Date validation key was generated.	
ProvenanceMedia.Result	Hash value, filename, or path and filename of stored validation signature.	Digital Signature
ProvenanceMedia.LastCheckDate	Date validation key generated and compared with original.	
ProvenanceMedia.NextCheckDate	Date scheduled for validation key comparison.	
DataFile.DataFileID	Database generated, Primary Key	
DataFile.ProvenanceMediaID	Foreign Key, ProvenanceMedia Table	
DataFile.FileName	Name of the file including its extension.	
DataFile.FileSize	Size of the file in bytes.	
DataFile.ContentType	Type of content in the file: Data, Documentation, Permission, Startup.	
DataFile.MarkupType	Type of markup used to encode contents of file: HTML, SGML, XML.	
DataFile.MarkupName	Name of schema and version employed for the MarkupType: TEI DTD, W3C XML.	Relation.Conforms to

DataFile.MarkupSchema	Contents of schema used for the Markup Type.	
DataFile.FileAccessRight	Access rights or limitations specific to file: Universal Access -unrestricted, Research Use Only, Educational Use Only, Research and Educational Use Only, Non-Commercial Use Only, On-Site Use Only, Signed Confidentiality Agreement Only, Staff Only, Staff Addresses Only, Licensees Only, Domestic IP Addresses Only, No Online Access, No Access Allowed Pending Further Evaluation.	
DataFile.ExprofAccessRight	Date access rights or restrictions specific to file expire.	
DataFile.PreservRestrictn	Preservation rights or limitations for preserving file.	
DataFile.EncryptionInfo	Description of encryption employed on file.	
DataFile.AccessInhibitors	Inhibitors to access inherent to the file: Password protection, AAA watermark.	Rights.Previous Protective Marking
DataFile.FileType	MIME Media Type for file in format Content Type/Subtype: application/pdf, audio/mpeg, image/tiff, message/http, model/vrml, multipart/signed, text/html, video/mpeg.	
DataFile.FileVersion	Version of the MIME Media Type.	
DataFile.FileFormat	Software program used to create the file: Microsoft Word 2000, Microsoft Excel 2000.	
DataFile.FormatRegistry	Registry to identify the software program used to create or view the file: Pronom.	
DataFile.RegistryEntry	Entry in the Format Registry for the file format.	
DataFile.DateModified	Last date and time when file was written or modified.	Date.Modified
DataFile.PreservFormat	File format is a preservation format: Y, N.	
DataFile.AltFormat	Alternate or derivative formats that contain contents of file: txt, csv, pdf.	
DataFile.OriginalFileID	Foreign key to DataFile.DataFileID. DataFileID for original file from which the file is a derivative.	

DataFile.OriginalFileName	Filename (and extension) for the original source file from which the file described is a derivative.	Preservation.Original format
DataFile.Creation	Description of the file creation, coded to record file history: Original file received, Migrated file, Archive generated file.	
DataFile.History	Description of file history, coded string to record file history: O = Original file received. M = Migrated file. A = Archive generated file. MMO = Migrated file from Migrated file from Original file.	
DataFile.RefreshDate	Last date and time file was written to any media.	
DataFile.AccessStartDate	Date when access to file may be granted.	
DataFile.AccessEndDate	Date when access to file ends.	
DataFile.DeaccessionDate	Date when file was deaccessioned from archive.	
FilePart.FilePartID	Database generated, Primary Key	
FilePart.DataFileID	Foreign Key, DataFile Table	
FilePart.FilePartType	Type of FilePart: Table, Screenshot, Thumbnail Image, Page Image, Annotation, Mask, Metadata Text.	
FilePart.FilePartLoc	Location or address of FilePart within the file: Unknown.	
FilePart.FilePartDesc	Description of FilePart differentiated from file.	
Environment.EnvironmentID	Database generated, Primary Key	
Environment.DataFileID	Foreign Key, DataFile Table	
Environment.EnvironmentType	Type of environment required for data file: Rendering Software, Display Application, Operating System, Middleware, Hardware CPU, Hardware Peripherals.	
Environment.Title	Title of environment software or hardware required.	
Environment.Description	Description of implementation environment for data file.	
Environment.Documentation	Documentation for the implementation environment.	

Environment.ExpiryDate	Date environment is scheduled to expire or be replaced.	
AccessRestriction.AccessRestrictionID	Database generated, Primary Key	
AccessRestriction.ProvenanceID	Foreign Key, Provenance Table	
AccessRestriction.AccessRestriction	Security category or type of restriction: Onsite Use Only - Confidential Data- No Copying, Permission from Project Director Required, Confidentiality Agreement Required - No Copying or Network Access, Project Director only, Universal Access (unrestricted), Research Use Only, Educational Use Only, Research and Educational Use Only, Non-Commercial Use Only, On-Site Use Only, Signed Confidentiality Agreement Only, CU Personnel Only, CU Addresses Only, Domestic IP Addresses Only, No Online Access.	Accessibility Rights.GroupAccess Rights.Individual User Access List Rights.Protective Marking
AccessRestriction.AccessRestrictionDesc	Description of restriction on access to object.	Mandate.Personal Data Acquisition Purpose
AccessRestriction.CurrentDeclaration	Confidentiality agreement or user agreement on restriction.	Rights.EIR Disclosability Indicator Rights.EIR Disclosability Exemption Rights.FOIA Disclosability Indicator Rights.FOIA Disclosability Exemption
AccessRestriction.SecurityNote	Note about the security restriction on object.	Rights.FOIA Release Details
AccessRestriction.SecurityReviewDate	Date security restriction is scheduled for review.	Rights.Last FOIA Disclosability Review
AccessRestriction.ARStartDate	Date access restriction on object begins.	Rights.Protective Marking Change Date
AccessRestriction.AREndDate	Date access restriction on object ends.	Rights.FOIA Release Date Rights.Protective Marking Expiry Date
Decision.DecisionID	Database generated, Primary Key	
Decision.DecisionType	Type of Decision: Acquisition, Nomination for Dissemination, Nomination for Deaccession, Nomination for Transfer, Nomination for Accession, Dissemination, Disposition, Transfer, Provisional Use, Beta System Dissemination; Production	

	System Dissemination.	
Decision.Decision	Decision about an object for a Decision Type. For Preservation Service: Preserve content, Preserve Original Formats; For SEDAC: Disseminate, Ancillary Product, Transfer to LTA; For SEDAC Acquisition: redistributed 3rd party data, value-added 3rd party data, SEDAC-developed; For LTA: Public Dissemination, Restricted Dissemination; (Others Considered: Under Review, Disseminate, Delete, Remove) The following 7 categories are not mutually exclusive: Delete; Retire; Long-Term Archive; Archive, But Not Disseminate, SEDAC Disseminate by Type: - Subsets Only, - Web Download - Internet Mapping; Missing; Add to SDP; Consolidate.	Disposal.Disposal Review Details
Decision.MeetingDate	Date when the decision was made.	
Decision.DecisionActiveDate	Date on which the decision is implemented.	Date.Valid
Decision.Authority	Authority deciding the status of an object within the archive: CIESIN Director, CIESIN Deputy Director, CIESIN Associate Director for IS, SEDAC UWG, SEDAC Project Manager, SEDAC Lead Project Scientist, SEDAC Archives Manager, SEDAC Archivist, LTA Board, LTA Manager, LTA Archivist.	
Decision.Note	Note of Rationale or Justification for making the decision.	
ProvenanceDecision.ProvenanceDecisionID	Database generated, Primary Key	
ProvenanceDecision.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceDecision.DecisionID	Foreign Key, Decision Table	
ProvenanceDecision.Note	Note about the decision in reference to a specific provenance.	
RightOwner.RightOwnerID	Database generated, Primary Key	
RightOwner.Entity	Organization that owns right	

	for an object or Public Domain.	
RightOwner.Signator	Person who signed document authorizing a right for an object.	Rights.Custodian
RightOwner.SignatorTitle	Title of signer authorizing a right for an object.	
RightOwner.SigContactInfo	Contact information for signer authorizing a right for an object.	
RightOwner.Address1	Line 1 of right owner address.	
RightOwner.Address2	Line 2 of right owner address.	
RightOwner.City	City of right owner.	
RightOwner.State	State of right owner.	
RightOwner.Country	Country of right owner.	
RightOwner.PostalCode	Postal code for right owner.	
RightOwner.Telephone	Telephone number for right owner.	
RightOwner.Fax	Fax number for right owner.	
RightOwner.Email	E-mail for right owner.	
RightOwner.Website	URL of right owner website.	
RightOwner.Note	Note about right owner.	
Right.RightID	Database generated, Primary Key	
Right.RightType	Type of right held: copyright, license, public domain, contract, Permission.	Rights.Descriptor
Right.RightName	Distribution Right, Usage Right, Preservation Right, Access Right, Print Right.	
Right.RightDesc	Description of the right and intellectual property restrictions or obligations.	
Right.Note	Note on rights for object.	
RightHeld.RightHeldID	Database generated, Primary Key	
RightHeld.RightOwnerID	Foreign Key, RightOwner Table	
RightHeld.ProvenanceID	Foreign Key, Provenance Table	
RightHeld.RightID	Foreign Key, Right Table	
RightHeld.RightOrigination	Right granted to others or received from owner: Granted, Received.	
RightHeld.CurDeclaration	Content of license, contract, or permission statement.	Rights.Copyright
RightHeld.RightDocFile	Filename and directory path of the digital (or scanned) document that authorizes rights for an object.	
RightHeld.RightDocLoc	Location of original printed license, contract, or permission document: Onsite Archive, Offsite Archive, Storeroom, Not Printed.	

RightHeld.BeginDate	Date of execution for rights held or date of contract if not specified.	
RightHeld.ExpiryDate	Date of expiration for rights held or null if no expiration date.	
RightHeld.Receiver	Person who signed document (or agreed to conditions) and is authorized to acquire or use object.	
RightHeld.Cost	Cost to acquire object or rights to object.	
RightHeld.CostUnit	Monetary unit for cost to acquire object or rights to object.	
RightHeld.Note	Note on right held for an object.	
RightHeld.RightBrief	Brief description of right held and intended usage group or purpose: Use and distribute freely, Use and distribute only within organization, Distribute for research or educational purposes, Third party distribution, Research use only, Educational use only, Non-commercial use only, Staff use only.	Mandate.Data Protection Exempt Category
RightHeld.Request	Request for rights, including the reason to justify authorization.	

**Crosswalk:
Data Model for Managing and Preserving Geospatial Electronic Records to
Model Requirements for the Management of Electronic Records: MoReq**

Classification Scheme Metadata Elements (12.3),
Class and File Metadata Elements (12.4),
Metadata Elements for File or Volume (12.5),
Volume Metadata Elements (12.6),
Record Metadata Elements (12.7), and
Record Extract Metadata Elements (12.8)

Field	Definition	MoReq
Collection.CollectionID	Database generated, Primary Key	12.3.2, 12.4.1
Collection.Title	Title for a Collection: CIESIN Archive, SEDAC Scientific Data Archives, specific project Archive.	12.3.1, 12.4.2
Collection.Description	Description of the collection and keywords.	12.3.3, 12.4.3, 12.4.4
Collection.AccessReqmnt	Requirements for accessing the collection: Object Specific Requirements, CMB Approval, Systems Manager Approval.	
Collection.InstallReqmnt	Requirements for installation of collection	
Collection.SizeReqmnt	Storage volume requirement for collection, automatically calculated.	
Collection.AccessInhibitor	Method(s) employed to inhibit access to collection that could affect preservation, such as encryption or watermarking.	12.7.28, 12.7.29
Collection.FindingAid	Method used to facilitate discovery of collection.	
Collection.PresrvPermission	Statement of permission to copy collection or migrate to various formats for preservation.	
Collection.RelationDesc	Description of relationships, relevant for preservation, between collection and other objects or collections.	
Collection.Quirk	Characteristic that could degrade functionality or aspects of the collection.	
Collection.Purpose	Purpose and reason for archiving the collection: Funding Agency Requirement; Scientific Value; Historical value; Fiduciary responsibility.	
Collection.DecisionDate	Date of decision to archive the collection.	
Collection.AccessStartDate	Date access was provided to collection.	
Collection.AccessEndDate	Date when access to	

	collection ended.	
Collection.DeaccessionDate	Date collection is deaccessioned by archive.	12.4.15
Collection.Note	Notes about collection.	12.3.4, 12.4.14
Series.SeriesID	Database generated, Primary Key	12.3.2, 12.4.1
Series.CollectionID	Foreign Key, Collection Table	12.6.1
Series.Title	Title of a record series category within a Collection: CIESIN Administrative Records, CIESIN Records Common to All Projects, CIESIN Scientific Data, SEDAC Operations Records, SEDAC Active Archive, SEDAC Long-Term Archive.	12.3.1, 12.4.2
Series.SeriesCode	Unique identifier for the record category: SEDAC Active Archive, SEDAC Long-Term Archive, CIESIN Archive, Series 100 CIESIN Records, Series 500 CIESIN Records, Series 600 SEDAC Operations Records, Series 700 SEDAC Active Archive, Series 800 Series Long-Term Archive.	12.3.2, 12.4.1
Series.Description	Description of the series.	12.3.3, 12.4.3, 12.4.4
Series.VRIndicator	Category of vital records, if applicable, for the series: Non-Vital Records, Emergency - Operating Records, Legal or Financial Rights, Emergency and Rights Records.	12.7.14
Series.VRReviewDate	Date of next review of vital records in series.	
Series.Activity	Level of use for series, assignment based on SeriesActivity.	
Series.ActivityDate	Date when activity for the series was reviewed and assigned.	
Series.CutoffDate	Date to cutoff records in series.	
Series.AnnualAccum	Estimate of annual accumulation of records in series.	
Series.AccessStartDate	Date when access to series began.	
Series.EndDate	Date when access to series ended.	
Series.DeaccessionDate	Date of deaccession for all records in series.	12.4.15
Series.Note	Notes about the series.	12.3.4, 12.4.14, 12.6.3
SeriesActivity.SeriesActivityID	Database generated,	

	Primary Key	
SeriesActivity.SeriesID	Foreign Key, Series Table.	
SeriesActivity.PeriodStartDate	Date series activity period began.	
SeriesActivity.PeriodEndDate	Date series activity period ended.	
SeriesActivity.UniqueUserCnt	Number of unique users of series during period.	
SeriesActivity.TotalUserCnt	Total number of users of series during period.	
SeriesActivity.Note	Notes about series activity for a given period.	12.4.14
Aggregate.AggregateID	Database generated, Primary Key	
Aggregate.SeriesID	Foreign Key, Series Table	
Aggregate.Title	Title of Aggregate category assignment. For SEDAC Scientific Data Series mission areas: PLUE, ENTRI, EH, MVA, HVA, AFS, ES, EX, IG.	
Aggregate.AccessStartDate	Date access to aggregate began.	
Aggregate.AccessEndDate	Date when access to aggregate ended.	
Aggregate.DeaccessionDate	Date of deaccession for all records in aggregate.	12.4.15
Provenance.ProvenanceID	Database generated, Primary Key	
Provenance.AggregateID	Foreign Key, Aggregate Table	
Provenance.Origin	Description of the creation process of the object.	
Provenance.Title	Formal Title that identifies or describes the object.	
Provenance.Version	Identification to differentiate object from other versions.	12.7.26
Provenance.PreIngest	Description of pre-ingest processing and custody of object.	
Provenance.CreationDate	Date object was completed by Author.	12.7.5, 12.8.3
Provenance.SubmissionDate	Date object was submitted to the archive for ingest.	12.7.22
Provenance.Citation	Complete citation for object.	
Provenance.DesignatedCommunity	Description of designated community of users, potential users, or audience for the object: Human interactions in the environment community, Decision-maker, Learner, Manager, Scientist, Teacher.	
Provenance.ReqdPreservationService	Level of preservation service or preservation plan requested by submitter or data provider: Preserve Original Formats; Preserve	

	Content in Supported Formats.	
Provenance.ReqDisseminatnService	Level of dissemination service or dissemination plan requested by submitter or data provider: Restricted dissemination. Public Dissemination.	
Provenance.ReasonForCreation	Reason or purpose for creating the described object.	12.8.5
Provenance.CustodyHistory	Chain of custody of object prior to ingest into archive.	
Provenance.ReasonForPreservation	Justification for selecting object for preservation in archive.	
Provenance.AcquisitionDate	Date original object was acquired by archive.	12.7.8
Provenance.AcquisitionVolume	Volume of original object acquired by archive.	
Provenance.AcquisitionFileInventory	List of all files in original object acquired by archive.	
Provenance.ReceivedDate	Date object received by the Archivist.	12.7.23
Provenance.DeaccessionDate	Date the object was deaccessioned from archive.	12.4.15
Provenance.AIPVolume	Total Size of the Archival Information Package created by the archive to preserve the Content Information and Associated Material	
Provenance.ContentInformationSize	Size of Content Information of the Archival Information Package in Bytes.	
Provenance.AssociatedMaterialSize	Size of material associated with the Content Information of the AIP in Bytes.	
Provenance.Functionality	Description of any functional characteristics of the object.	
Provenance.AIPFileInventory	List of all filenames and sizes organized by the directory structure.	12.7.13
Provenance.AIPDataDictionary	List of each filename in object with title of document or description for each file, including alternate formats.	
Provenance.AIP	All the files within their preservation structure, containing Content Information and Associated Information that has been transformed by the Archive for preservation (location in system if dbms is part of the repository).	
Provenance.AIPCreationDate	Date archive created Preservation Master for	

	Archival Information Package.	
Provenance.ReceivedSIP	All of the files (within their original structure) received from the provider in the Submission Information Package (SIP) containing the Content Information and all Associated Information for the original object acquired (stored in system if dbms is part of the repository).	
Provenance.PreparedSIP	All of the files (within their preservation structure), containing the Content Information and the Associated Information that have been prepared by the Archive for submission to another Archive or Collection (stored in system if dbms is part of the repository).	
Provenance.VitalRecordIndicator	Vital Record status of object: Non-Vital Record, Emergency - Operating Record, Legal or Financial Rights Record, Emergency and Rights Record.	12.7.14
Provenance.PermRecordIndicator	Indicator that the record is a Permanent Record: N, Y.	
Provenance.RecordCondition	Condition of record.	
Provenance.Description	Description of the intellectual content of the object.	
Provenance.Methodology	Instruments and techniques used to create the data.	
Provenance.Variable	Variables, layouts, and codes used to describe the data.	
Provenance.SpatialCoverageDesc	Political or geographical description of spatial coverage.	
Provenance.SpatialCoverageNote	Latitude and longitude covered, if available.	
Provenance.SpatialResolution	Spatial Resolution.	
Provenance.SpatialResolutionNote	Notes on the spatial resolution of the object.	
Provenance.SRS	Spatial Reference System used for spatial resolution.	
Provenance.BBoxMinX	Minimum X Coordinate (Longitude) for the Bounding Box.	
Provenance.BBoxMinY	Minimum Y Coordinate (Latitude) for the Bounding Box.	
Provenance.BBoxMaxX	Maximum X Coordinate (Longitude) for the Bounding Box.	
Provenance.BBoxMaxY	Maximum Y Coordinate	

	(Latitude) for the Bounding Box.	
Provenance.SpatialCoverage	If database supports native spatial data types, this field should be used to store actual shape of spatial coverage.	
Retention.RetentionID	Database generated, Primary Key	
Retention.ProvenanceID	Foreign Key, Provenance Table, if retention relates to provenance.	
Retention.SeriesID	Foreign Key, Series Table, if retention relates to series.	
Retention.Instruction	Instructions for retention or disposition of record or series: Review every Five Years, Retain Indefinitely, Freeze, Transfer to LTA, Retire, Destroy.	12.4.12, 12.7.16, 12.5.1, 12.5.4
Retention.InstructionReason	Justification for retention instructions on record or series.	12.4.17, 12.4.18, 12.5.16
Retention.InstrctnDate	Date instructions were decided for record or series.	12.4.18
Retention.InstrctnActDate	Date instructions are to be executed for record or series.	12.4.5, 12.4.6, 12.4.12, 12.4.12, 12.5.2, 12.5.3, 12.5.15
Retention.ScheduleDate	Date record or series will be reviewed.	
Retention.Authority	Name of individual or group deciding on instructions for record or series: SEDAC UWG, LTA Board.	12.4.7, 12.4.11, 12.5.15
TemporalData.TemporalDataID	Database generated, Primary Key	
TemporalData.ProvenanceID	Foreign Key, Provenance Table	
TemporalData.TCovPrecision	Precision of data used to describe temporal coverage: Year, Month, Day.	
TemporalData.TCovStart	Start date for data collection.	
TemporalData.TCovEnd	End date for data collection.	
TemporalData.TCovProjectionTo	Date of temporal coverage projection to a future date.	
TemporalData.TresDescription	Description of temporal resolution, time intervals between successive observations, frequency of granule production.	
Relationship.FromProvenanceID	Foreign Key, Provenance Table, part of Primary Key	12.8.1
Relationship.ToProvenanceID	Foreign Key, Provenance Table, part of Primary Key	12.7.24, 12.8.2
Relationship.Relation	Part of Primary Key. Type of relationship: Subset,	12.7.15

	Superset, Derivative, Source, Extract, Version, Release, Edition, Integrates Parts, Compliment.	
Relationship.RelationStartDate	Date relationship began.	12.8.3
Relationship.RelationEndDate	Date relationship ended.	
Relationship.Note	Note about the relationship.	12.4.14
Identification.IdentificationID	Database generated, Primary Key	
Identification.ProvenanceID	Foreign Key, Provenance Table	
Identification.IdentifierType	Type of identifier for which the object has been assigned a unique ID: Global Identifier, TDB ID, UMDB Rec #, DOI, ISBN.	12.5.20
Identification.IdentifierAssigned	Unique Identifier assigned to an object for an identifier type.	12.7.1
ProvReference.ProvReferenceID	Database generated, Primary Key	
ProvReference.ProvenanceID	Foreign Key, Provenance Table	
ProvReference.RefAuthor	Names of authors of reference work.	
ProvReference.RefAuthorRole	Role of authors of reference work (Eds.)	
ProvReference.RefTitle	Title of reference work.	
ProvReference.MonographAuthor	Author names of monograph containing reference work.	
ProvReference.MonographAuthRole	Role of authors of monograph containing reference work (Eds.)	
ProvReference.MonographTitle	Title of monograph containing reference work.	
ProvReference.JournalTitle	Title of journal containing reference work.	
ProvReference.TranslatedTitle	English translation of title if in another language.	
ProvReference.Edition	Edition identifier of monograph containing reference work.	
ProvReference.SubsidiaryAuthor	Names of subsidiary authors if author is an institution.	
ProvReference.PublicationPlace	Location where reference work is published.	
ProvReference.Publisher	Name of reference work publisher.	
ProvReference.PublicationDate	Date reference work was published.	
ProvReference.PublicationYear	Year when reference work was published.	
ProvReference.CopyrightDate	Date of copyright for reference work.	
ProvReference.VolumeID	Volume identifier of reference work.	
ProvReference.IssueID	Issue identifier of reference	

	work.	
ProvReference.Page	Range of pages of reference work.	
ProvReference.WorkExtent	Total number of pages of reference work.	
ProvReference.PackagingMethod	Public accessibility of reference work.	
ProvReference.SeriesEditor	Editor of series containing reference work.	
ProvReference.SeriesEditorRole	Role of Editor for series containing reference work.	
ProvReference.SeriesTitle	Title of series containing reference work.	
ProvReference.SeriesVolumeID	Volume identifier for series containing reference work.	
ProvReference.SeriesIssueID	Issue identifier for series containing reference work.	
ProvReference.DocumentType	Type of reference work. Ex: Journal, Book, Proceedings	
ProvReference.URL	URL of text or full reference of reference work.	
ProvReference.Availability	File path or file cabinet if stored, or blank if not available.	
ProvReference.ISBN	ISBN number for reference work.	
ProvReference.Note	Note about reference work.	
ProvReference.RefAbstract	Abstract of reference work.	
ProvReference.CallNumber	Identifier in classification system (LOC, Dewey, or other).	
ProvReference.ReferenceType	Use of object by reference work. Ex: Report,	
ProvReference.RefCitation	Complete bibliographic reference for reference work.	
ProvReference.RefCitSource	Citation database or service listing reference and date found.	
ProvReference.RefUseRight	Right or permission to use reference work, citation, or abstract.	
ProvReference.RefAccessRight	Right/permission to access or link reference work, citation or abstract.	
ProvReference.DisplayOrder	Order in which reference work will appear in reference list.	
Property.PropertyID	Database generated, Primary Key	
Property.PropertyParentID	Foreign Key, Property Table	
Property.PropertyName	Name of the property describing an object: Ingest Status, Ingest Format Processing, Significant Property, DCMI Type, Document Type, Content Type, Subject, Language. For Ingest Status: Under	12.5.5, 12.5.14

	<p>Development by Creator, Being Prepared for Submission, Received by Archivist, Content Review Pending, Content Under Review by Archivist, Content Review Complete, Description Pending, Description Under Review, Description Complete, DOI Assigned, Quality Review Pending, Quality Review Complete, Failed Content Quality Review. Rejected - Data Returned to Creator, Ingested, Destroyed; For Ingest Format Processing: All files Ingested in Supported Formats, Original Non-Supported Formats Only, Original formats and All Files Migrated to Supported Formats; For Significant Properties: Intellectual Content of Text, intellectual content of image; For DCMI Type: Collection, Dataset, Event, Image, Interactive Resource, Moving Image, Physical Object, Service, Software, Sound, Still Image; For Document Type (ISO 19115 Document Type): PresentationFormCode: documentDigital, documentHardcopy, imageDigital, imageHardcopy, mapDigital, mapHardcopy, modelDigital, modelHardcopy, profileDigital, profileHardcopy, tableDigital, tableHardcopy, videoDigital, videoHardcopy; Content Type: Data, Documentation, Permission; Subject thesaurus or controlled vocabulary; Language: English, Spanish.</p>	
Property.PropertyDesc	Description of a property.	12.7.2 12.7.7 12.7.27
Property.PropertyStatus	Current status of the property: Valid, Not in Use.	
Provenance_Property.ProvenancePropertyID	Database generated, Primary Key	
Provenance_Property.ProvenanceID	Foreign Key, Provenance	

	Table	
Provenance_Property.PropertyID	Foreign Key, Property Table	
Provenance_Property.PPStartDate	Date when property began	12.5.17
Provenance_Property.PPEndDate	Date when property ended.	
Provenance_Property.Note	Note about property as it pertains to a particular provenance.	12.4.14, 12.5.18
ProvenanceNote.ProvenanceNoteID	Database generated, Primary Key	
ProvenanceNote.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceNote.NoteText	Note about the provenance of an object.	
ProvenanceNote.PostedBy	Person who posted the note about the provenance of an object.	
ProvenanceNote.PostedOn	Date the note was posted.	
ProvenanceNote.NoteType	Type of provenance note: Accession, Maintenance, Disposition.	12.4.14, 12.7.18, 12.8.6
OtherTitle.OtherTitleID	Database generated, Primary Key	
OtherTitle.ProvenanceID	Foreign Key, Provenance Table	
OtherTitle.TitleType	Alternate Title, Former Title	
OtherTitle.Title	Other title of an object.	
OtherTitle.Note	Note about the other title of an object.	
Person.PersonID	Database generated, Primary Key	
Person.ProvenanceID	Foreign Key, Provenance Table	
Person.PersonRole	Role of responsible person: Author, Contributor, Recipient, Internal Contact, Accessioner, Originating Organization Technical Contact, Originating Organization Program Contact, Environment Manager, Security Official.	12.4.11, 12.4.16, 12.7.3, 12.7.4, 12.7.6, 12.8.4
Person.PersonOrder	Order in which person will appear in a Person Role list, if sorted.	
Person.FirstName	First name of person.	
Person.LastName	Last name of person.	
Person.Address1	Line 1 of person address.	
Person.Address2	Line 2 of person address.	
Person.City	City of person.	
Person.State	State of person.	
Person.Country	Country of person.	
Person.PostalCode	Postal code address for person.	
Person.Phone	Telephone number for person.	
Person.Fax	Fax number for person.	

Person.Email1	Primary e-mail address for person.	
Person.Email2	Second e-mail address for person.	
Person.Note	Note about person.	
Institution.InstitutionID	Database generated, Primary Key	
Institution.ProvenanceID	Foreign Key, Provenance Table	
Institution.InstitutionRole	Role of institution for object. Originating Organization, Program Support.	
Institution.InstitutionOrder	Order in which the institution will appear on an institution role list If higher priority has been assigned.	
Institution.InstitutionName	Name of institution.	
Institution.Address1	Line 1 of institution address.	
Institution.Address2	Line 2 of institution address.	
Institution.City	City of institution.	
Institution.State	State of institution.	
Institution.Country	Country of institution.	
Institution.PostalCode	Postal code for institution address.	
Institution.Phone	Telephone number for institution.	
Institution.Fax	Fax number for institution.	
Institution.Website	Website URL for institution.	
Institution.Note	Note about institution.	
Document.DocumentID	Database generated, Primary Key	
Document.ProvenanceID	Foreign Key, Provenance Table	
Document.DocumentType	Type of document describing the object: User Manual, User Guide, Variable List, Codebook, Data Layout, Parameter List, User Notes, File Inventory, Installation Instructions, Splash Page.	
Document.Title	Title of document describing the object.	
Document.ArchivalID	Identifier of the document if recorded as a provenance.	
Document.AccessPoint	URL of access point that disseminates document (http://...; ftp://...).	
Document.FileName	Filename of the document.	
Document.Scheme	Encoding scheme for the document. MARC, EAD, VRA, DC, NISOIMG, LC-AV, TEIHDR (Text Encoding Initiative Header), DDI, FGDC-STD-001-1998, FGDC CSGDM, DIF, ISO 19115, NY State Clearinghouse, Metalite, IEEE LOM, ESRI,	

	Unknown.	
Document.Language	Language in which the document is written: English, Spanish.	
Document.AdditionalInfo	Additional information about the document.	
Distributor.DistributorID	Database generated, Primary Key	
Distributor.DistributorName	Name of the service that distributes a dissemination of an object: CIESIN, Columbia Earth Institute, SEDAC, SEDAC LTA.	
Distributor.Address1	Line 1 of distributor address.	
Distributor.Address2	Line 2 of distributor address.	
Distributor.City	City of distributor.	
Distributor.State	State of distributor.	
Distributor.PostalCode	Postal Code of distributor.	
Distributor.Country	Country of distributor.	
Distributor.TelePhone	Telephone number of distributor.	
Distributor.Fax	Fax number of distributor.	
Distributor.URL	URL of distributor.	
Distributor.Email	Email address of distributor.	
Distributor.Website	Website of distributor.	
Dissemination.DisseminationID	Database generated, Primary Key	
Dissemination.DistributorID	Foreign Key, Distributor Table	
Dissemination.Medium	Primary data storage medium for distributing object from dissemination service: CD-ROM, DVD, URN, URL, FTP.	
Dissemination.PublicAccessPoint	Primary Access Point for distributing object to the public from dissemination service (http://... ; ftp://...).	
Dissemination.InternalLocation	Path and folder name of location from which object is distributed from internal dissemination service.	
Dissemination.DissemSize	Size of object disseminated in Bytes	
Dissemination.StartDate	Date dissemination service began disseminating object.	
Dissemination.EndDate	Date dissemination service discontinued disseminating object.	
Dissemination.DIPDescription	File Inventory of all files included in the Dissemination Information Package (DIP) submitted to dissemination service for distribution.	
Dissemination.DissemCharge	Amount received from dissemination service for	

	distributing object.	
Dissemination.DissemChargeUnit	Monetary unit of DissemCharge.	
Dissemination.OriginalPublisher	Flag indicating that dissemination is by Original Publisher: N, Y.	
Dissemination.PrimaryDistributor	Flag indicating that dissemination is by Primary Distributor: N. Y.	
DissemAltPoint.DissemAltPointID	Database generated, Primary Key	
DissemAltPoint.DisseminationID	Foreign Key, Dissemination Table	
DissemAltPoint.AltAccessPoint	Alternate access point disseminating object (http://...; ftp://...).	
DissemAltPoint.StartDate	Date started disseminating object at alternate access point.	
DissemAltPoint.EndDate	Date stopped disseminating object at alternate access point..	
DissemAltPoint.Note	Note on alternate dissemination point.	
ProvDissemination.ProvDisseminationID	Database generated, Primary Key	
ProvDissemination.DisseminationID	Foreign Key, Dissemination Table, part of Alternate Key	
ProvDissemination.ProvenanceID	Foreign Key, Provenance Table, part of Alternate Key	
ProvDissemination.RootPath	Directory path where object is disseminated within group.	
ProvDissemination.StartDate	Date object began being disseminated within group.	
ProvDissemination.EndDate	Date object no longer disseminated within group.	
ProvDissemination.Note	Note on object dissemination within group.	12.4.14
PDFFileList.PDFFileListID	Database generated, Primary Key	
PDFFileList.ProvDissemID	Foreign Key, ProvDissemination Table	
PDFFileList.FileName	Name of the file listing files disseminated in dissemination.	
PDFFileList.StartDate	Date the listed files were included in dissemination.	
PDFFileList.EndDate	Date the listed files were no longer in dissemination.	
PDFFileList.Note	Note about the list of files included within dissemination.	12.4.14
Catalog.CatalogID	Database generated, Primary Key.	
Catalog.CatalogName	Name of the catalog where an object is registered:	

	SEDAC, CIESIN, EDGRS, ESIP, DLESE, NSDL.	
Catalog.URL	URL of the catalog where an object is registered.	
Catalog.ContactInfo	Contact information for a catalog where an object is registered.	
CatalogEntry.CatalogEntryID	Database generated, Primary Key.	
CatalogEntry.DisseminationID	Foreign Key, Dissemination Table.	
CatalogEntry.CatalogID	Foreign Key, Catalog Table.	
CatalogEntry.EntryID	Unique Identifier in the catalog for the record describing the object.	
CatalogEntry.Submission	Date description of entry was submitted to a catalog.	
CatalogEntry.StartDate	Date catalog entry was available.	
CatalogEntry.EndDate	Date catalog entry was no longer available.	
CatalogEntry.EntryStatus	Status of catalog entry: None, Partial, Complete, Removed.	
CatalogEntry.EntryDesc	Description of the dissemination included in the fields of the entry.	
CatalogEntry.EntryLastUpdate	Date of the last update to the catalog entry for the object.	
CatalogEntry.Note	Note about the catalog entry for an object.	
Location.LocationID	Database generated, Primary Key	
Location.LocType	Type of location. Onsite Offline Archive, Offsite Offline Archive, Onsite Processing, Onsite Network, Onsite Storage Shelves.	
Location.LocName	Name of the Location. CIESIN Archival Facility, GISS Computer Room, Geoscience Computer Room, Geoscience Storage Room.	12.5.7
Location.LocDesc	Description of the archival facilities at the location.	
Location.LocAGENT	Name of the individual responsible for the location.	
LocationParam.LocationParamID	Database generated, Primary Key	
LocationParam.LocationID	Foreign Key, Location Table	
LocationParam.ParamName	Name of the parameter measured at the location: Temperature, High Temperature, Low	

	Temperature, Humidity, High Humidity, Low Humidity, Inventory, Recovery Test.	
LocationParam.ParamValue	Value of the parameter measured at the location.	
LocationParam.ParamUnit	Unit of measurement for recorded value measured at location: Degrees Fahrenheit, Percentage.	
LocationParam.ParamDate	Date and time of measurement.	
LocationParam.ParamNote	Note on instrument or parameter measured.	
Media.MediaID	Database generated, Primary Key	
Media.MediaType	Type of media used: CD-ROM, CD-R, DVD-R, DVD+R, Print.	12.4.13, 12.5.22
Media.MediaBrand	Brand of the media: TDK 700 MB 48x Data CD-R.	
Media.MediaPurchaseDate	Date the media was purchased.	
Media.Note	Note about the media.	
Media_Location.LocationID	Database generated, Primary Key	
Media_Location.MediaID	Foreign Key, Media Table	12.6.2, 12.5.6
Media_Location.DepositedOn	Date the archival media was deposited at the location.	12.5.21
Media_Location.RemovedOn	Date the archival media was removed from the location.	12.5.9
Media_Location.Note	Note about the archival media housed at a location.	
Event.EventID	Database generated, Primary Key	
Event.MediaID	Foreign Key, Media Table	
Event.EventStatus	Status of the event: Complete, Scheduled, Postponed.	12.5.8
Event.Designation	Name of the event: Deposit, Inventory, Audit, Inspection, Virus Check, Media Write, Quality Check, Format Conversion, Removal, Check Out, Bring Forward, Media Request, Media Destruction.	
Event.Procedure	Procedure completed on media during an event.	
Event.Location	Location where the event occurred.	
Event.EventDate	Date and time of event.	12.4.15, 12.5.11
Event.Outcome	Description of the event outcome.	
Event.Note	Note about the event.	12.4.14, 12.5.13
Event.ResponsiblePerson	Individual responsible for	12.4.16

	the event.	
Event.RetrievalRecipient	Individual who received the media.	12.5.10
Event.RetrievalRequestor	Individual who requested the media.	12.5.12
ProvenanceMedia.ProvenanceMediaID	Database generated, Primary Key	
ProvenanceMedia.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceMedia.MediaID	Foreign Key, Media Table	
ProvenanceMedia.MediaCopy	Instance of object stored on media: Preservation Master, Security Master, Duplication Master, Access Service Copy.	
ProvenanceMedia.RootPath	Path and directory of the object on the media.	
ProvenanceMedia.WriteDate	Date the object was written on the media.	
ProvenanceMedia.DeleteDate	Date the object was deleted from the media.	12.4.15
ProvenanceMedia.ValidationProc	Signature type used to generate validation key: MD5, SHA-1.	12.7.21
ProvenanceMedia.KeyCreationDate	Date validation key was generated.	
ProvenanceMedia.Result	Hash value, filename, or path and filename of stored validation signature.	12.7.20
ProvenanceMedia.LastCheckDate	Date validation key generated and compared with original.	12.7.21
ProvenanceMedia.NextCheckDate	Date scheduled for validation key comparison.	
DataFile.DataFileID	Database generated, Primary Key	
DataFile.ProvenanceMediaID	Foreign Key, ProvenanceMedia Table	
DataFile.FileName	Name of the file including its extension.	12.7.13
DataFile.FileSize	Size of the file in bytes.	
DataFile.ContentType	Type of content in the file: Data, Documentation, Permission, Startup.	
DataFile.MarkupType	Type of markup used to encode contents of file: HTML, SGML, XML.	12.7.13
DataFile.MarkupName	Name of schema and version employed for the MarkupType: TEI DTD, W3C XML.	
DataFile.MarkupSchema	Contents of schema used for the Markup Type.	
DataFile.FileAccessRight	Access rights or limitations specific to file: Universal Access -unrestricted, Research Use Only, Educational Use Only, Research and Educational	12.7.25

	Use Only, Non-Commercial Use Only, On-Site Use Only, Signed Confidentiality Agreement Only, Staff Only, Staff Addresses Only, Licensees Only, Domestic IP Addresses Only, No Online Access, No Access Allowed Pending Further Evaluation.	
DataFile.ExpofAccessRight	Date access rights or restrictions specific to file expire.	
DataFile.PreservRestrictn	Preservation rights or limitations for preserving file.	
DataFile.EncryptionInfo	Description of encryption employed on file.	12.7.13, 12.7.28
DataFile.AccessInhibitors	Inhibitors to access inherent to the file: Password protection, AAA watermark.	12.7.13, 12.7.29
DataFile.FileType	MIME Media Type for file in format Content Type/Subtype: application/pdf, audio/mpeg, image/tiff, message/http, model/vrml, multipart/signed, text/html, video/mpeg.	
DataFile.FileVersion	Version of the MIME Media Type.	
DataFile.FileFormat	Software program used to create the file: Microsoft Word 2000, Microsoft Excel 2000.	12.7.13
DataFile.FormatRegistry	Registry to identify the software program used to create or view the file: Pronom.	
DataFile.RegistryEntry	Entry in the Format Registry for the file format.	
DataFile.DateModified	Last date and time when file was written or modified.	
DataFile.PreservFormat	File format is a preservation format: Y, N.	12.7.13
DataFile.AltFormat	Alternate or derivative formats that contain contents of file: txt, csv, pdf.	12.7.13
DataFile.OriginalFileID	Foreign key to DataFile.DataFileID. DataFileID for original file from which the file is a derivative.	
DataFile.OriginalFileName	Filename (and extension) for the original source file from which the file described is a derivative.	12.7.13
DataFile.Creation	Description of the file creation, coded to record file history: Original file received, Migrated file,	

	Archive generated file.	
DataFile.History	Description of file history, coded string to record file history: O = Original file received. M = Migrated file. A = Archive generated file. MMO = Migrated file from Migrated file from Original file.	
DataFile.RefreshDate	Last date and time file was written to any media.	
DataFile.AccessStartDate	Date when access to file may be granted.	
DataFile.AccessEndDate	Date when access to file ends.	
DataFile.DeaccessionDate	Date when file was deaccessioned from archive.	12.4.15
FilePart.FilePartID	Database generated, Primary Key	
FilePart.DataFileID	Foreign Key, DataFile Table	
FilePart.FilePartType	Type of FilePart: Table, Screenshot, Thumbnail Image, Page Image, Annotation, Mask, Metadata Text.	
FilePart.FilePartLoc	Location or address of FilePart within the file: Unknown.	
FilePart.FilePartDesc	Description of FilePart differentiated from file.	
Environment.EnvironmentID	Database generated, Primary Key	
Environment.DataFileID	Foreign Key, DataFile Table	
Environment.EnvironmentType	Type of environment required for data file: Rendering Software, Display Application, Operating System, Middleware, Hardware CPU, Hardware Peripherals.	12.7.13
Environment.Title	Title of environment software or hardware required.	
Environment.Description	Description of implementation environment for data file.	
Environment.Documentation	Documentation for the implementation environment.	
Environment.ExpiryDate	Date environment is scheduled to expire or be replaced.	
AccessRestriction.AccessRestrictionID	Database generated, Primary Key	
AccessRestriction.ProvenanceID	Foreign Key, Provenance Table	

AccessRestriction.AccessRestriction	Security category or type of restriction: Onsite Use Only - Confidential Data- No Copying, Permission from Project Director Required, Confidentiality Agreement Required - No Copying or Network Access, Project Director only, Universal Access (unrestricted), Research Use Only, Educational Use Only, Research and Educational Use Only, Non-Commercial Use Only, On-Site Use Only, Signed Confidentiality Agreement Only, CU Personnel Only, CU Addresses Only, Domestic IP Addresses Only, No Online Access.	12.4.8, 12.4.10, 12.4.11, 12.7.9
AccessRestriction.AccessRestrictionDesc	Description of restriction on access to object.	12.4.9, 12.4.11
AccessRestriction.CurrentDeclaration	Confidentiality agreement or user agreement on restriction.	12.4.11, 12.7.10
AccessRestriction.SecurityNote	Note about the security restriction on object.	12.4.11, 12.4.14, 12.7.11
AccessRestriction.SecurityReviewDate	Date security restriction is scheduled for review.	12.7.19, 12.5.19
AccessRestriction.ARStartDate	Date access restriction on object begins.	12.4.11, 12.7.12
AccessRestriction.AREndDate	Date access restriction on object ends.	12.4.11
Decision.DecisionID	Database generated, Primary Key	
Decision.DecisionType	Type of Decision: Acquisition, Nomination for Dissemination, Nomination for Deaccession, Nomination for Transfer, Nomination for Accession, Dissemination, Disposition, Transfer, Provisional Use, Beta System Dissemination; Production System Dissemination.	
Decision.Decision	Decision about an object for a Decision Type. For Preservation Service: Preserve content, Preserve Original Formats; For SEDAC: Disseminate, Ancillary Product, Transfer to LTA; For SEDAC Acquisition: redistributed 3rd party data, value-added 3rd party data, SEDAC-developed; For LTA: Public Dissemination, Restricted Dissemination; (Others	12.7.17

	Considered: Under Review, Disseminate, Delete, Remove) The following 7 categories are not mutually exclusive: Delete; Retire; Long-Term Archive; Archive, But Not Disseminate, SEDAC Disseminate by Type: - Subsets Only, - Web Download - Internet Mapping; Missing; Add to SDP; Consolidate.	
Decision.MeetingDate	Date when the decision was made.	
Decision.DecisionActiveDate	Date on which the decision is implemented.	
Decision.Authority	Authority deciding the status of an object within the archive: CIESIN Director, CIESIN Deputy Director, CIESIN Associate Director for IS, SEDAC UWG, SEDAC Project Manager, SEDAC Lead Project Scientist, SEDAC Archives Manager, SEDAC Archivist, LTA Board, LTA Manager, LTA Archivist.	
Decision.Note	Note of Rationale or Justification for making the decision.	12.4.14
ProvenanceDecision.ProvenanceDecisionID	Database generated, Primary Key	
ProvenanceDecision.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceDecision.DecisionID	Foreign Key, Decision Table	
ProvenanceDecision.Note	Note about the decision in reference to a specific provenance.	12.4.14
RightOwner.RightOwnerID	Database generated, Primary Key	
RightOwner.Entity	Organization that owns right for an object or Public Domain.	
RightOwner.Signator	Person who signed document authorizing a right for an object.	
RightOwner.SignatorTitle	Title of signer authorizing a right for an object.	
RightOwner.SigContactInfo	Contact information for signer authorizing a right for an object.	
RightOwner.Address1	Line 1 of right owner address.	
RightOwner.Address2	Line 2 of right owner address.	
RightOwner.City	City of right owner.	

RightOwner.State	State of right owner.	
RightOwner.Country	Country of right owner.	
RightOwner.PostalCode	Postal code for right owner.	
RightOwner.Telephone	Telephone number for right owner.	
RightOwner.Fax	Fax number for right owner.	
RightOwner.Email	E-mail for right owner.	
RightOwner.Website	URL of right owner website.	
RightOwner.Note	Note about right owner.	
Right.RightID	Database generated, Primary Key	
Right.RightType	Type of right held: copyright, license, public domain, contract, Permission.	
Right.RightName	Distribution Right, Usage Right, Preservation Right, Access Right, Print Right.	12.4.9
Right.RightDesc	Description of the right and intellectual property restrictions or obligations.	12.7.25
Right.Note	Note on rights for object.	12.4.14
RightHeld.RightHeldID	Database generated, Primary Key	
RightHeld.RightOwnerID	Foreign Key, RightOwner Table	
RightHeld.ProvenanceID	Foreign Key, Provenance Table	
RightHeld.RightID	Foreign Key, Right Table	
RightHeld.RightOrigination	Right granted to others or received from owner: Granted, Received.	
RightHeld.CurDeclaration	Content of license, contract, or permission statement.	
RightHeld.RightDocFile	Filename and directory path of the digital (or scanned) document that authorizes rights for an object.	
RightHeld.RightDocLoc	Location of original printed license, contract, or permission document: Onsite Archive, Offsite Archive, Storeroom, Not Printed.	
RightHeld.BeginDate	Date of execution for rights held or date of contract if not specified.	
RightHeld.ExpiryDate	Date of expiration for rights held or null if no expiration date.	
RightHeld.Receiver	Person who signed document (or agreed to conditions) and is authorized to acquire or use object.	
RightHeld.Cost	Cost to acquire object or rights to object.	
RightHeld.CostUnit	Monetary unit for cost to acquire object or rights to	

	object.	
RightHeld.Note	Note on right held for an object.	12.4.14
RightHeld.RightBrief	Brief description of right held and intended usage group or purpose: Use and distribute freely, Use and distribute only within organization, Distribute for research or educational purposes, Third party distribution, Research use only, Educational use only, Non-commercial use only, Staff use only.	12.4.8
RightHeld.Request	Request for rights, including the reason to justify authorization.	

Crosswalk:

Data Model for Managing and Preserving Geospatial Electronic Records to DOD 5015.2-STD Design Criteria Standard for Electronic Records Management Software Applications. June 19, 2002. Assistant Secretary of Defense for Command, Control, Communications and Intelligence. Available Online: <http://jitc.fhu.disa.mil/recmgmt/standards.html>

File Plan Components (C2.T1)

Record Folder Components (C2.T2)

Record Metadata Components (C2.T3)

Field	Definition	DoD5015.2
Collection.CollectionID	Database generated, Primary Key	C2.T1.2. Record Category Identifier
Collection.Title	Title for a Collection: CIESIN Archive, SEDAC Scientific Data Archives, specific project Archive.	C2.T1.1. Record Category Name
Collection.Description	Description of the collection and keywords.	C2.T1.3. Record Category Description
Collection.AccessReqmnt	Requirements for accessing the collection: Object Specific Requirements, CMB Approval, Systems Manager Approval.	
Collection.InstallReqmnt	Requirements for installation of collection	
Collection.SizeReqmnt	Storage volume requirement for collection, automatically calculated.	
Collection.AccessInhibitor	Method(s) employed to inhibit access to collection that could affect preservation, such as encryption or watermarking.	
Collection.FindingAid	Method used to facilitate discovery of collection.	
Collection.PresrvPermission	Statement of permission to copy collection or migrate to various formats for preservation.	
Collection.RelationDesc	Description of relationships, relevant for preservation, between collection and other objects or collections.	
Collection.Quirk	Characteristic that could degrade functionality or aspects of the collection.	
Collection.Purpose	Purpose and reason for archiving the collection: Funding Agency Requirement; Scientific Value; Historical value; Fiduciary responsibility.	
Collection.DecisionDate	Date of decision to archive the collection.	
Collection.AccessStartDate	Date access was provided to collection.	

Collection.AccessEndDate	Date when access to collection ended.	
Collection.DeaccessionDate	Date collection is deaccessioned by archive.	
Collection.Note	Notes about collection.	C2.T1.9 User Definable Fields
Series.SeriesID	Database generated, Primary Key	C2.T2.1.2. Folder Unique Identifier
Series.CollectionID	Foreign Key, Collection Table	
Series.Title	Title of a record series category within a Collection: CIESIN Administrative Records, CIESIN Records Common to All Projects, CIESIN Scientific Data, SEDAC Operations Records, SEDAC Active Archive, SEDAC Long-Term Archive.	C2.T2.1.1. Folder Name
Series.SeriesCode	Unique identifier for the record category: SEDAC Active Archive, SEDAC Long-Term Archive, CIESIN Archive, Series 100 CIESIN Records, Series 500 CIESIN Records, Series 600 SEDAC Operations Records, Series 700 SEDAC Active Archive, Series 800 Series Long-Term Archive.	C2.T2.1.6 Supplemental Marking List
Series.Description	Description of the series.	
Series.VRIndicator	Category of vital records, if applicable, for the series: Non-Vital Records, Emergency - Operating Records, Legal or Financial Rights, Emergency and Rights Records.	C2.T2.1.4. Vital Record Indicator
Series.VRReviewDate	Date of next review of vital records in series.	
Series.Activity	Level of use for series, assignment based on SeriesActivity.	
Series.ActivityDate	Date when activity for the series was reviewed and assigned.	
Series.CutoffDate	Date to cutoff records in series.	
Series.AnnualAccum	Estimate of annual accumulation of records in series.	
Series.AccessStartDate	Date when access to series began.	
Series.EndDate	Date when access to series ended.	
Series.DeaccessionDate	Date of deaccession for all records in series.	
Series.Note	Notes about the series.	C2.T2.7 User-Definable

		Fields
SeriesActivity.SeriesActivityID	Database generated, Primary Key	
SeriesActivity.SeriesID	Foreign Key, Series Table.	
SeriesActivity.PeriodStartDate	Date series activity period began.	
SeriesActivity.PeriodEndDate	Date series activity period ended.	
SeriesActivity.UniqueUserCnt	Number of unique users of series during period.	
SeriesActivity.TotalUserCnt	Total number of users of series during period.	
SeriesActivity.Note	Notes about series activity for a given period.	
Aggregate.AggregateID	Database generated, Primary Key	
Aggregate.SeriesID	Foreign Key, Series Table	
Aggregate.Title	Title of Aggregate category assignment. For SEDAC Scientific Data Series mission areas: PLUE, ENTRI, EH, MVA, HVA, AFS, ES, EX, IG.	
Aggregate.AccessStartDate	Date access to aggregate began.	
Aggregate.AccessEndDate	Date when access to aggregate ended.	
Aggregate.DeaccessionDate	Date of deaccession for all records in aggregate.	
Provenance.ProvenanceID	Database generated, Primary Key	C2.T3.1 Unique Record Identifier
Provenance.AggregateID	Foreign Key, Aggregate Table	
Provenance.Origin	Description of the creation process of the object.	
Provenance.Title	Formal Title that identifies or describes the object.	C2.T3.3 Subject or Title
Provenance.Version	Identification to differentiate object from other versions.	
Provenance.PreIngest	Description of pre-ingest processing and custody of object.	
Provenance.CreationDate	Date object was completed by Author.	C2.T3.7 Publication Date
Provenance.SubmissionDate	Date object was submitted to the archive for ingest.	
Provenance.Citation	Complete citation for object.	
Provenance.DesignatedCommunity	Description of designated community of users, potential users, or audience for the object: Human interactions in the environment community, Decision-maker, Learner, Manager, Scientist, Teacher.	
Provenance.ReqdPreservationService	Level of preservation service or preservation plan	

	requested by submitter or data provider: Preserve Original Formats; Preserve Content in Supported Formats.	
Provenance.ReqdDisseminatnService	Level of dissemination service or dissemination plan requested by submitter or data provider: Restricted dissemination. Public Dissemination.	
Provenance.ReasonForCreation	Reason or purpose for creating the described object.	
Provenance.CustodyHistory	Chain of custody of object prior to ingest into archive.	
Provenance.ReasonForPreservation	Justification for selecting object for preservation in archive.	
Provenance.AcquisitionDate	Date original object was acquired by archive.	C2.T3.6 Date Filed
Provenance.AcquisitionVolume	Volume of original object acquired by archive.	
Provenance.AcquisitionFileInventory	List of all files in original object acquired by archive.	
Provenance.ReceivedDate	Date object received by the Archivist.	C2.T3.8 Date Received
Provenance.DeaccessionDate	Date the object was deaccessioned from archive.	
Provenance.AIPVolume	Total Size of the Archival Information Package created by the archive to preserve the Content Information and Associated Material	
Provenance.ContentInformationSize	Size of Content Information of the Archival Information Package in Bytes.	
Provenance.AssociatedMaterialSize	Size of material associated with the Content Information of the AIP in Bytes.	
Provenance.Functionality	Description of any functional characteristics of the object.	
Provenance.AIPFileInventory	List of all filenames and sizes organized by the directory structure.	
Provenance.AIPDataDictionary	List of each filename in object with title of document or description for each file, including alternate formats.	
Provenance.AIP	All the files within their preservation structure, containing Content Information and Associated Information that has been transformed by the Archive for preservation (location in system if dbms is part of the	

	repository).	
Provenance.AIPCreationDate	Date archive created Preservation Master for Archival Information Package.	
Provenance.ReceivedSIP	All of the files (within their original structure) received from the provider in the Submission Information Package (SIP) containing the Content Information and all Associated Information for the original object acquired (stored in system if dbms is part of the repository).	
Provenance.PreparedSIP	All of the files (within their preservation structure), containing the Content Information and the Associated Information that have been prepared by the Archive for submission to another Archive or Collection (stored in system if dbms is part of the repository).	
Provenance.VitalRecordIndicator	Vital Record status of object: Non-Vital Record, Emergency - Operating Record, Legal or Financial Rights Record, Emergency and Rights Record.	C2.T1.7. Vital Record Indicator C2.T2.1.4. Vital Record Indicator C2.T3.14. Vital Record Indicator
Provenance.PermRecordIndicator	Indicator that the record is a Permanent Record: N, Y.	C2.T1.6. Permanent Record Indicator
Provenance.RecordCondition	Condition of record.	
Provenance.Description	Description of the intellectual content of the object.	
Provenance.Methodology	Instruments and techniques used to create the data.	
Provenance.Variable	Variables, layouts, and codes used to describe the data.	
Provenance.SpatialCoverageDesc	Political or geographical description of spatial coverage.	
Provenance.SpatialCoverageNote	Latitude and longitude covered, if available.	
Provenance.SpatialResolution	Spatial Resolution.	
Provenance.SpatialResolutionNote	Notes on the spatial resolution of the object.	
Provenance.SRS	Spatial Reference System used for spatial resolution.	
Provenance.BBoxMinX	Minimum X Coordinate (Longitude) for the Bounding Box.	
Provenance.BBoxMinY	Minimum Y Coordinate (Latitude) for the Bounding Box.	
Provenance.BBoxMaxX	Maximum X Coordinate	

	(Longitude) for the Bounding Box.	
Provenance.BBoxMaxY	Maximum Y Coordinate (Latitude) for the Bounding Box.	
Provenance.SpatialCoverage	If database supports native spatial data types, this field should be used to store actual shape of spatial coverage.	
Retention.RetentionID	Database generated, Primary Key	
Retention.ProvenanceID	Foreign Key, Provenance Table, if retention relates to provenance.	
Retention.SeriesID	Foreign Key, Series Table, if retention relates to series.	
Retention.Instruction	Instructions for retention or disposition of record or series: Review every Five Years, Retain Indefinitely, Freeze, Transfer to LTA, Retire, Destroy.	C2.T1.4. Disposition Instructions
Retention.InstructionReason	Justification for retention instructions on record or series.	
Retention.InstrctnDate	Date instructions were decided for record or series.	
Retention.InstrctnActDate	Date instructions are to be executed for record or series.	
Retention.ScheduleDate	Date record or series will be reviewed.	C2.T1.8. Vital Record Review and Update Cycle Period C2.T2.1.5 Vital Record Review and Update Cycle Period C2.T3.15. Vital Record Review and Update Cycle Period
Retention.Authority	Name of individual or group deciding on instructions for record or series: SEDAC UWG, LTA Board.	C2.T1.5. Disposition Authority
TemporalData.TemporalDataID	Database generated, Primary Key	
TemporalData.ProvenanceID	Foreign Key, Provenance Table	
TemporalData.TCovPrecision	Precision of data used to describe temporal coverage: Year, Month, Day.	
TemporalData.TCovStart	Start date for data collection.	
TemporalData.TCovEnd	End date for data collection.	
TemporalData.TCovProjectionTo	Date of temporal coverage projection to a future date.	
TemporalData.TresDescription	Description of temporal resolution, time intervals	

	between successive observations, frequency of granule production.	
Relationship.FromProvenanceID	Foreign Key, Provenance Table, part of Primary Key	
Relationship.ToProvenanceID	Foreign Key, Provenance Table, part of Primary Key	
Relationship.Relation	Part of Primary Key. Type of relationship: Subset, Superset, Derivative, Source, Extract, Version, Release, Edition, Integrates Parts, Compliment.	
Relationship.RelationStartDate	Date relationship began.	
Relationship.RelationEndDate	Date relationship ended.	
Relationship.Note	Note about the relationship.	
Identification.IdentificationID	Database generated, Primary Key	
Identification.ProvenanceID	Foreign Key, Provenance Table	
Identification.IdentifierType	Type of identifier for which the object has been assigned a unique ID: Global Identifier, TDB ID, UMDB Rec #, DOI, ISBN.	
Identification.IdentifierAssigned	Unique Identifier assigned to an object for an identifier type.	
ProvReference.ProvReferenceID	Database generated, Primary Key	
ProvReference.ProvenanceID	Foreign Key, Provenance Table	
ProvReference.RefAuthor	Names of authors of reference work.	
ProvReference.RefAuthorRole	Role of authors of reference work (Eds.)	
ProvReference.RefTitle	Title of reference work.	
ProvReference.MonographAuthor	Author names of monograph containing reference work.	
ProvReference.MonographAuthRole	Role of authors of monograph containing reference work (Eds.)	
ProvReference.MonographTitle	Title of monograph containing reference work.	
ProvReference.JournalTitle	Title of journal containing reference work.	
ProvReference.TranslatedTitle	English translation of title if in another language.	
ProvReference.Edition	Edition identifier of monograph containing reference work.	
ProvReference.SubsidiaryAuthor	Names of subsidiary authors if author is an institution.	
ProvReference.PublicationPlace	Location where reference work is published.	
ProvReference.Publisher	Name of reference work	

	publisher.	
ProvReference.PublicationDate	Date reference work was published.	
ProvReference.PublicationYear	Year when reference work was published.	
ProvReference.CopyrightDate	Date of copyright for reference work.	
ProvReference.VolumeID	Volume identifier of reference work.	
ProvReference.IssueID	Issue identifier of reference work.	
ProvReference.Page	Range of pages of reference work.	
ProvReference.WorkExtent	Total number of pages of reference work.	
ProvReference.PackagingMethod	Public accessibility of reference work.	
ProvReference.SeriesEditor	Editor of series containing reference work.	
ProvReference.SeriesEditorRole	Role of Editor for series containing reference work.	
ProvReference.SeriesTitle	Title of series containing reference work.	
ProvReference.SeriesVolumeID	Volume identifier for series containing reference work.	
ProvReference.SeriesIssueID	Issue identifier for series containing reference work.	
ProvReference.DocumentType	Type of reference work. Ex: Journal, Book, Proceedings	
ProvReference.URL	URL of text or full reference of reference work.	
ProvReference.Availability	File path or file cabinet if stored, or blank if not available.	
ProvReference.ISBN	ISBN number for reference work.	
ProvReference.Note	Note about reference work.	
ProvReference.RefAbstract	Abstract of reference work.	
ProvReference.CallNumber	Identifier in classification system (LOC, Dewey, or other).	
ProvReference.ReferenceType	Use of object by reference work. Ex: Report,	
ProvReference.RefCitation	Complete bibliographic reference for reference work.	
ProvReference.RefCitSource	Citation database or service listing reference and date found.	
ProvReference.RefUseRight	Right or permission to use reference work, citation, or abstract.	
ProvReference.RefAccessRight	Right/permission to access or link reference work, citation or abstract.	
ProvReference.DisplayOrder	Order in which reference work will appear in reference list.	
Property.PropertyID	Database generated, Primary Key	

Property.PropertyParentID	Foreign Key, Property Table	
Property.PropertyName	<p>Name of the property describing an object: Ingest Status, Ingest Format Processing, Significant Property, DCMI Type, Document Type, Content Type, Subject, Language. For Ingest Status: Under Development by Creator, Being Prepared for Submission, Received by Archivist, Content Review Pending, Content Under Review by Archivist, Content Review Complete, Description Pending, Description Under Review, Description Complete, DOI Assigned, Quality Review Pending, Quality Review Complete, Failed Content Quality Review. Rejected - Data Returned to Creator, Ingested, Destroyed; For Ingest Format Processing: All files Ingested in Supported Formats, Original Non-Supported Formats Only, Original formats and All Files Migrated to Supported Formats; For Significant Properties: Intellectual Content of Text, intellectual content of image; For DCMI Type: Collection, Dataset, Event, Image, Interactive Resource, Moving Image, Physical Object, Service, Software, Sound, Still Image; For Document Type (ISO 19115 Document Type): PresentationFormCode: documentDigital, documentHardcopy, imageDigital, imageHardcopy, mapDigital, mapHardcopy, modelDigital, modelHardcopy, profileDigital, profileHardcopy, tableDigital, tableHardcopy, videoDigital, videoHardcopy; Content Type: Data, Documentation, Permission; Subject thesaurus or controlled vocabulary; Language:</p>	C2.T3.16. User-Defined Fields

	English, Spanish.	
Property.PropertyDesc	Description of a property.	
Property.PropertyStatus	Current status of the property: Valid, Not in Use.	
Provenance_Property.ProvenancePropertyID	Database generated, Primary Key	
Provenance_Property.ProvenanceID	Foreign Key, Provenance Table	
Provenance_Property.PropertyID	Foreign Key, Property Table	
Provenance_Property.PPStartDate	Date when property began	
Provenance_Property.PPEndDate	Date when property ended.	
Provenance_Property.Note	Note about property as it pertains to a particular provenance.	
ProvenanceNote.ProvenanceNoteID	Database generated, Primary Key	
ProvenanceNote.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceNote.NoteText	Note about the provenance of an object.	
ProvenanceNote.PostedBy	Person who posted the note about the provenance of an object.	
ProvenanceNote.PostedOn	Date the note was posted.	
ProvenanceNote.NoteType	Type of provenance note: Accession, Maintenance, Disposition.	
OtherTitle.OtherTitleID	Database generated, Primary Key	
OtherTitle.ProvenanceID	Foreign Key, Provenance Table	
OtherTitle.TitleType	Alternate Title, Former Title	
OtherTitle.Title	Other title of an object.	
OtherTitle.Note	Note about the other title of an object.	
Person.PersonID	Database generated, Primary Key	
Person.ProvenanceID	Foreign Key, Provenance Table	
Person.PersonRole	Role of responsible person: Author, Contributor, Recipient, Internal Contact, Accessioner, Originating Organization Technical Contact, Originating Organization Program Contact, Environment Manager, Security Official.	C3.T2.9. Author or Originator C3.T2.10. Addressee(s) C3.T2.11. Other Addressee(s)
Person.PersonOrder	Order in which person will appear in a Person Role	

	list, if sorted.	
Person.FirstName	First name of person.	
Person.LastName	Last name of person.	
Person.Address1	Line 1 of person address.	
Person.Address2	Line 2 of person address.	
Person.City	City of person.	
Person.State	State of person.	
Person.Country	Country of person.	
Person.PostalCode	Postal code address for person.	
Person.Phone	Telephone number for person.	
Person.Fax	Fax number for person.	
Person.Email1	Primary e-mail address for person.	
Person.Email2	Second e-mail address for person.	
Person.Note	Note about person.	
Institution.InstitutionID	Database generated, Primary Key	
Institution.ProvenanceID	Foreign Key, Provenance Table	
Institution.InstitutionRole	Role of institution for object. Originating Organization, Program Support.	C2.T3.12. Originating Organization
Institution.InstitutionOrder	Order in which the institution will appear on an institution role list If higher priority has been assigned.	
Institution.InstitutionName	Name of institution.	
Institution.Address1	Line 1 of institution address.	
Institution.Address2	Line 2 of institution address.	
Institution.City	City of institution.	
Institution.State	State of institution.	
Institution.Country	Country of institution.	
Institution.PostalCode	Postal code for institution address.	
Institution.Phone	Telephone number for institution.	
Institution.Fax	Fax number for institution.	
Institution.Website	Website URL for institution.	
Institution.Note	Note about institution.	
Document.DocumentID	Database generated, Primary Key	
Document.ProvenanceID	Foreign Key, Provenance Table	
Document.DocumentType	Type of document describing the object: User Manual, User Guide, Variable List, Codebook, Data Layout, Parameter List, User Notes, File Inventory, Installation Instructions, Splash Page.	
Document.Title	Title of document describing the object.	
Document.ArchivalID	Identifier of the document if recorded as a provenance.	

Document.AccessPoint	URL of access point that disseminates document (http://...; ftp://...).	
Document.FileName	Filename of the document.	
Document.Scheme	Encoding scheme for the document. MARC, EAD, VRA, DC, NISOIMG, LC-AV, TEIHDR (Text Encoding Initiative Header), DDI, FGDC-STD-001-1998, FGDC CSGDM, DIF, ISO 19115, NY State Clearinghouse, Metalite, IEEE LOM, ESRI, Unknown.	
Document.Language	Language in which the document is written: English, Spanish.	
Document.AdditionalInfo	Additional information about the document.	
Distributor.DistributorID	Database generated, Primary Key	
Distributor.DistributorName	Name of the service that distributes a dissemination of an object: CIESIN, Columbia Earth Institute, SEDAC, SEDAC LTA.	
Distributor.Address1	Line 1 of distributor address.	
Distributor.Address2	Line 2 of distributor address.	
Distributor.City	City of distributor.	
Distributor.State	State of distributor.	
Distributor.PostalCode	Postal Code of distributor.	
Distributor.Country	Country of distributor.	
Distributor.TelePhone	Telephone number of distributor.	
Distributor.Fax	Fax number of distributor.	
Distributor.URL	URL of distributor.	
Distributor.Email	Email address of distributor.	
Distributor.Website	Website of distributor.	
Dissemination.DisseminationID	Database generated, Primary Key	
Dissemination.DistributorID	Foreign Key, Distributor Table	
Dissemination.Medium	Primary data storage medium for distributing object from dissemination service: CD-ROM, DVD, URN, URL, FTP.	
Dissemination.PublicAccessPoint	Primary Access Point for distributing object to the public from dissemination service (http://...; ftp://...).	
Dissemination.InternalLocation	Path and folder name of location from which object is distributed from internal dissemination service.	
Dissemination.DissemSize	Size of object disseminated	

	in Bytes	
Dissemination.StartDate	Date dissemination service began disseminating object.	
Dissemination.EndDate	Date dissemination service discontinued disseminating object.	
Dissemination.DIPDescription	File Inventory of all files included in the Dissemination Information Package (DIP) submitted to dissemination service for distribution.	
Dissemination.DissemCharge	Amount received from dissemination service for distributing object.	
Dissemination.DissemChargeUnit	Monetary unit of DissemCharge.	
Dissemination.OriginalPublisher	Flag indicating that dissemination is by Original Publisher: N, Y.	
Dissemination.PrimaryDistributor	Flag indicating that dissemination is by Primary Distributor: N, Y.	
DissemAltPoint.DissemAltPointID	Database generated, Primary Key	
DissemAltPoint.DisseminationID	Foreign Key, Dissemination Table	
DissemAltPoint.AltAccessPoint	Alternate access point disseminating object (http://...; ftp://...).	
DissemAltPoint.StartDate	Date started disseminating object at alternate access point.	
DissemAltPoint.EndDate	Date stopped disseminating object at alternate access point..	
DissemAltPoint.Note	Note on alternate dissemination point.	
ProvDissemination.ProvDisseminationID	Database generated, Primary Key	
ProvDissemination.DisseminationID	Foreign Key, Dissemination Table, part of Alternate Key	
ProvDissemination.ProvenanceID	Foreign Key, Provenance Table, part of Alternate Key	
ProvDissemination.RootPath	Directory path where object is disseminated within group.	
ProvDissemination.StartDate	Date object began being disseminated within group.	
ProvDissemination.EndDate	Date object no longer disseminated within group.	
ProvDissemination.Note	Note on object dissemination within group.	
PDFFileList.PDFFileListID	Database generated, Primary Key	
PDFFileList.ProvDissemID	Foreign Key, ProvDissemination Table	
PDFFileList.FileName	Name of the file listing files	

	disseminated in dissemination.	
PDFFileList.StartDate	Date the listed files were included in dissemination.	
PDFFileList.EndDate	Date the listed files were no longer in dissemination.	
PDFFileList.Note	Note about the list of files included within dissemination.	
Catalog.CatalogID	Database generated, Primary Key.	
Catalog.CatalogName	Name of the catalog where an object is registered: SEDAC, CIESIN, EDGRS, ESIP, DLESE, NSDL.	
Catalog.URL	URL of the catalog where an object is registered.	
Catalog.ContactInfo	Contact information for a catalog where an object is registered.	
CatalogEntry.CatalogEntryID	Database generated, Primary Key.	
CatalogEntry.DisseminationID	Foreign Key, Dissemination Table.	
CatalogEntry.CatalogID	Foreign Key, Catalog Table.	
CatalogEntry.EntryID	Unique Identifier in the catalog for the record describing the object.	
CatalogEntry.Submission	Date description of entry was submitted to a catalog.	
CatalogEntry.StartDate	Date catalog entry was available.	
CatalogEntry.EndDate	Date catalog entry was no longer available.	
CatalogEntry.EntryStatus	Status of catalog entry: None, Partial, Complete, Removed.	
CatalogEntry.EntryDesc	Description of the dissemination included in the fields of the entry.	
CatalogEntry.EntryLastUpdate	Date of the last update to the catalog entry for the object.	
CatalogEntry.Note	Note about the catalog entry for an object.	
Location.LocationID	Database generated, Primary Key	
Location.LocType	Type of location. Onsite Offline Archive, Offsite Offline Archive, Onsite Processing, Onsite Network, Onsite Storage Shelves.	
Location.LocName	Name of the Location. CIESIN Archival Facility, GISS Computer Room, Geoscience Computer Room, Geoscience Storage	C2.T2.1.3 Location

	Room.	
Location.LocDesc	Description of the archival facilities at the location.	
Location.LocAGENT	Name of the individual responsible for the location.	
LocationParam.LocationParamID	Database generated, Primary Key	
LocationParam.LocationID	Foreign Key, Location Table	
LocationParam.ParamName	Name of the parameter measured at the location: Temperature, High Temperature, Low Temperature, Humidity, High Humidity, Low Humidity, Inventory, Recovery Test.	
LocationParam.ParamValue	Value of the parameter measured at the location.	
LocationParam.ParamUnit	Unit of measurement for recorded value measured at location: Degrees Fahrenheit, Percentage.	
LocationParam.ParamDate	Date and time of measurement.	
LocationParam.ParamNote	Note on instrument or parameter measured.	
Media.MediaID	Database generated, Primary Key	
Media.MediaType	Type of media used: CD-ROM, CD-R, DVD-R, DVD+R, Print.	C2.T3.4 Media Type
Media.MediaBrand	Brand of the media: TDK 700 MB 48x Data CD-R.	
Media.MediaPurchaseDate	Date the media was purchased.	
Media.Note	Note about the media.	
Media_Location.LocationID	Database generated, Primary Key	C2.T3.13. Location
Media_Location.MediaID	Foreign Key, Media Table	
Media_Location.DepositedOn	Date the archival media was deposited at the location.	
Media_Location.RemovedOn	Date the archival media was removed from the location.	
Media_Location.Note	Note about the archival media housed at a location.	
Event.EventID	Database generated, Primary Key	
Event.MediaID	Foreign Key, Media Table	
Event.EventStatus	Status of the event: Complete, Scheduled, Postponed.	
Event.Designation	Name of the event: Deposit, Inventory, Audit, Inspection, Virus Check, Media Write,	

	Quality Check, Format Conversion, Removal, Check Out, Bring Forward, Media Request, Media Destruction.	
Event.Procedure	Procedure completed on media during an event.	
Event.Location	Location where the event occurred.	
Event.EventDate	Date and time of event.	
Event.Outcome	Description of the event outcome.	
Event.Note	Note about the event.	
Event.ResponsiblePerson	Individual responsible for the event.	
Event.RetrievalRecipient	Individual who received the media.	
Event.RetrievalRequestor	Individual who requested the media.	
ProvenanceMedia.ProvenanceMediaID	Database generated, Primary Key	
ProvenanceMedia.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceMedia.MediaID	Foreign Key, Media Table	
ProvenanceMedia.MediaCopy	Instance of object stored on media: Preservation Master, Security Master, Duplication Master, Access Service Copy.	
ProvenanceMedia.RootPath	Path and directory of the object on the media.	
ProvenanceMedia.WriteDate	Date the object was written on the media.	
ProvenanceMedia.DeleteDate	Date the object was deleted from the media.	
ProvenanceMedia.ValidationProc	Signature type used to generate validation key: MD5, SHA-1.	
ProvenanceMedia.KeyCreationDate	Date validation key was generated.	
ProvenanceMedia.Result	Hash value, filename, or path and filename of stored validation signature.	
ProvenanceMedia.LastCheckDate	Date validation key generated and compared with original.	
ProvenanceMedia.NextCheckDate	Date scheduled for validation key comparison.	
DataFile.DataFileID	Database generated, Primary Key	
DataFile.ProvenanceMediaID	Foreign Key, ProvenanceMedia Table	
DataFile.FileName	Name of the file including its extension.	
DataFile.FileSize	Size of the file in bytes.	
DataFile.ContentType	Type of content in the file: Data, Documentation, Permission, Startup.	
DataFile.MarkupType	Type of markup used to	

	encode contents of file: HTML, SGML, XML.	
DataFile.MarkupName	Name of schema and version employed for the MarkupType: TEI DTD, W3C XML.	
DataFile.MarkupSchema	Contents of schema used for the Markup Type.	
DataFile.FileAccessRight	Access rights or limitations specific to file: Universal Access -unrestricted, Research Use Only, Educational Use Only, Research and Educational Use Only, Non-Commercial Use Only, On-Site Use Only, Signed Confidentiality Agreement Only, Staff Only, Staff Addresses Only, Licensees Only, Domestic IP Addresses Only, No Online Access, No Access Allowed Pending Further Evaluation.	C2.T3.2 Supplemental Marking List
DataFile.ExpofAccessRight	Date access rights or restrictions specific to file expire.	
DataFile.PreservRestrictn	Preservation rights or limitations for preserving file.	
DataFile.EncryptionInfo	Description of encryption employed on file.	
DataFile.AccessInhibitors	Inhibitors to access inherent to the file: Password protection, AAA watermark.	C2.T3.2 Supplemental Marking List
DataFile.FileType	MIME Media Type for file in format Content Type/Subtype: application/pdf, audio/mpeg, image/tiff, message/http, model/vrml, multipart/signed, text/html, video/mpeg.	
DataFile.FileVersion	Version of the MIME Media Type.	
DataFile.FileFormat	Software program used to create the file: Microsoft Word 2000, Microsoft Excel 2000.	C2.T3.5 Format
DataFile.FormatRegistry	Registry to identify the software program used to create or view the file: Pronom.	
DataFile.RegistryEntry	Entry in the Format Registry for the file format.	
DataFile.DateModified	Last date and time when file was written or modified.	
DataFile.PreservFormat	File format is a preservation format: Y, N.	
DataFile.AltFormat	Alternate or derivative formats that contain	

	contents of file: txt, csv, pdf.	
DataFile.OriginalFileID	Foreign key to DataFile.DataFileID. DataFileID for original file from which the file is a derivative.	
DataFile.OriginalFileName	Filename (and extension) for the original source file from which the file described is a derivative.	
DataFile.Creation	Description of the file creation, coded to record file history: Original file received, Migrated file, Archive generated file.	
DataFile.History	Description of file history, coded string to record file history: O = Original file received. M = Migrated file. A = Archive generated file. MMO = Migrated file from Migrated file from Original file.	
DataFile.RefreshDate	Last date and time file was written to any media.	
DataFile.AccessStartDate	Date when access to file may be granted.	
DataFile.AccessEndDate	Date when access to file ends.	
DataFile.DeaccessionDate	Date when file was deaccessioned from archive.	
FilePart.FilePartID	Database generated, Primary Key	
FilePart.DataFileID	Foreign Key, DataFile Table	
FilePart.FilePartType	Type of FilePart: Table, Screenshot, Thumbnail Image, Page Image, Annotation, Mask, Metadata Text.	
FilePart.FilePartLoc	Location or address of FilePart within the file: Unknown.	
FilePart.FilePartDesc	Description of FilePart differentiated from file.	
Environment.EnvironmentID	Database generated, Primary Key	
Environment.DataFileID	Foreign Key, DataFile Table	
Environment.EnvironmentType	Type of environment required for data file: Rendering Software, Display Application, Operating System, Middleware, Hardware CPU, Hardware Peripherals.	
Environment.Title	Title of environment software or hardware required.	

Environment.Description	Description of implementation environment for data file.	
Environment.Documentation	Documentation for the implementation environment.	
Environment.ExpiryDate	Date environment is scheduled to expire or be replaced.	
AccessRestriction.AccessRestrictionID	Database generated, Primary Key	
AccessRestriction.ProvenanceID	Foreign Key, Provenance Table	
AccessRestriction.AccessRestriction	Security category or type of restriction: Onsite Use Only - Confidential Data- No Copying, Permission from Project Director Required, Confidentiality Agreement Required - No Copying or Network Access, Project Director only, Universal Access (unrestricted), Research Use Only, Educational Use Only, Research and Educational Use Only, Non-Commercial Use Only, On-Site Use Only, Signed Confidentiality Agreement Only, CU Personnel Only, CU Addresses Only, Domestic IP Addresses Only, No Online Access.	C2.T3.2 Supplemental Marking List
AccessRestriction.AccessRestrictionDesc	Description of restriction on access to object.	
AccessRestriction.CurrentDeclaration	Confidentiality agreement or user agreement on restriction.	
AccessRestriction.SecurityNote	Note about the security restriction on object.	
AccessRestriction.SecurityReviewDate	Date security restriction is scheduled for review.	
AccessRestriction.ARStartDate	Date access restriction on object begins.	
AccessRestriction.AREndDate	Date access restriction on object ends.	
Decision.DecisionID	Database generated, Primary Key	
Decision.DecisionType	Type of Decision: Acquisition, Nomination for Dissemination, Nomination for Deaccession, Nomination for Transfer, Nomination for Accession, Dissemination, Disposition, Transfer, Provisional Use, Beta System Dissemination; Production	

	System Dissemination.	
Decision.Decision	Decision about an object for a Decision Type. For Preservation Service: Preserve content, Preserve Original Formats; For SEDAC: Disseminate, Ancillary Product, Transfer to LTA; For SEDAC Acquisition: redistributed 3rd party data, value-added 3rd party data, SEDAC-developed; For LTA: Public Dissemination, Restricted Dissemination; (Others Considered: Under Review, Disseminate, Delete, Remove) The following 7 categories are not mutually exclusive: Delete; Retire; Long-Term Archive; Archive, But Not Disseminate, SEDAC Disseminate by Type: - Subsets Only, - Web Download - Internet Mapping; Missing; Add to SDP; Consolidate.	
Decision.MeetingDate	Date when the decision was made.	
Decision.DecisionActiveDate	Date on which the decision is implemented.	
Decision.Authority	Authority deciding the status of an object within the archive: CIESIN Director, CIESIN Deputy Director, CIESIN Associate Director for IS, SEDAC UWG, SEDAC Project Manager, SEDAC Lead Project Scientist, SEDAC Archives Manager, SEDAC Archivist, LTA Board, LTA Manager, LTA Archivist.	
Decision.Note	Note of Rationale or Justification for making the decision.	
ProvenanceDecision.ProvenanceDecisionID	Database generated, Primary Key	
ProvenanceDecision.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceDecision.DecisionID	Foreign Key, Decision Table	
ProvenanceDecision.Note	Note about the decision in reference to a specific provenance.	
RightOwner.RightOwnerID	Database generated, Primary Key	
RightOwner.Entity	Organization that owns right	

	for an object or Public Domain.	
RightOwner.Signator	Person who signed document authorizing a right for an object.	
RightOwner.SignatorTitle	Title of signer authorizing a right for an object.	
RightOwner.SigContactInfo	Contact information for signer authorizing a right for an object.	
RightOwner.Address1	Line 1 of right owner address.	
RightOwner.Address2	Line 2 of right owner address.	
RightOwner.City	City of right owner.	
RightOwner.State	State of right owner.	
RightOwner.Country	Country of right owner.	
RightOwner.PostalCode	Postal code for right owner.	
RightOwner.Telephone	Telephone number for right owner.	
RightOwner.Fax	Fax number for right owner.	
RightOwner.Email	E-mail for right owner.	
RightOwner.Website	URL of right owner website.	
RightOwner.Note	Note about right owner.	
Right.RightID	Database generated, Primary Key	
Right.RightType	Type of right held: copyright, license, public domain, contract, Permission.	
Right.RightName	Distribution Right, Usage Right, Preservation Right, Access Right, Print Right.	
Right.RightDesc	Description of the right and intellectual property restrictions or obligations.	
Right.Note	Note on rights for object.	
RightHeld.RightHeldID	Database generated, Primary Key	
RightHeld.RightOwnerID	Foreign Key, RightOwner Table	
RightHeld.ProvenanceID	Foreign Key, Provenance Table	
RightHeld.RightID	Foreign Key, Right Table	
RightHeld.RightOrigination	Right granted to others or received from owner: Granted, Received.	
RightHeld.CurDeclaration	Content of license, contract, or permission statement.	
RightHeld.RightDocFile	Filename and directory path of the digital (or scanned) document that authorizes rights for an object.	
RightHeld.RightDocLoc	Location of original printed license, contract, or permission document: Onsite Archive, Offsite Archive, Storeroom, Not Printed.	

RightHeld.BeginDate	Date of execution for rights held or date of contract if not specified.	
RightHeld.ExpiryDate	Date of expiration for rights held or null if no expiration date.	
RightHeld.Receiver	Person who signed document (or agreed to conditions) and is authorized to acquire or use object.	
RightHeld.Cost	Cost to acquire object or rights to object.	
RightHeld.CostUnit	Monetary unit for cost to acquire object or rights to object.	
RightHeld.Note	Note on right held for an object.	
RightHeld.RightBrief	Brief description of right held and intended usage group or purpose: Use and distribute freely, Use and distribute only within organization, Distribute for research or educational purposes, Third party distribution, Research use only, Educational use only, Non-commercial use only, Staff use only.	
RightHeld.Request	Request for rights, including the reason to justify authorization.	

Crosswalk:
Data Model for Managing and Preserving Geospatial Electronic Records to
Dublin Core Metadata Element Set, Version 1.1,
Available Online: <http://www.dublincore.org/documents/dces/>

Field	Definition	Dublin Core Element v. 1.1
Collection.CollectionID	Database generated, Primary Key	
Collection.Title	Title for a Collection: CIESIN Archive, SEDAC Scientific Data Archives, specific project Archive.	
Collection.Description	Description of the collection and keywords.	
Collection.AccessReqmnt	Requirements for accessing the collection: Object Specific Requirements, CMB Approval, Systems Manager Approval.	
Collection.InstallReqmnt	Requirements for installation of collection	
Collection.SizeReqmnt	Storage volume requirement for collection, automatically calculated.	
Collection.AccessInhibitor	Method(s) employed to inhibit access to collection that could affect preservation, such as encryption or watermarking.	
Collection.FindingAid	Method used to facilitate discovery of collection.	
Collection.PresrvPermission	Statement of permission to copy collection or migrate to various formats for preservation.	
Collection.RelationDesc	Description of relationships, relevant for preservation, between collection and other objects or collections.	
Collection.Quirk	Characteristic that could degrade functionality or aspects of the collection.	
Collection.Purpose	Purpose and reason for archiving the collection: Funding Agency Requirement; Scientific Value; Historical value; Fiduciary responsibility.	
Collection.DecisionDate	Date of decision to archive the collection.	
Collection.AccessStartDate	Date access was provided to collection.	
Collection.AccessEndDate	Date when access to collection ended.	
Collection.DeaccessionDate	Date collection is deaccessioned by archive.	
Collection.Note	Notes about collection.	
Series.SeriesID	Database generated, Primary Key	

Series.CollectionID	Foreign Key, Collection Table	
Series.Title	Title of a record series category within a Collection: CIESIN Administrative Records, CIESIN Records Common to All Projects, CIESIN Scientific Data, SEDAC Operations Records, SEDAC Active Archive, SEDAC Long-Term Archive.	
Series.SeriesCode	Unique identifier for the record category: SEDAC Active Archive, SEDAC Long-Term Archive, CIESIN Archive, Series 100 CIESIN Records, Series 500 CIESIN Records, Series 600 SEDAC Operations Records, Series 700 SEDAC Active Archive, Series 800 Series Long-Term Archive.	
Series.Description	Description of the series.	
Series.VRIndicator	Category of vital records, if applicable, for the series: Non-Vital Records, Emergency - Operating Records, Legal or Financial Rights, Emergency and Rights Records.	
Series.VRReviewDate	Date of next review of vital records in series.	
Series.Activity	Level of use for series, assignment based on SeriesActivity.	
Series.ActivityDate	Date when activity for the series was reviewed and assigned.	
Series.CutoffDate	Date to cutoff records in series.	
Series.AnnualAccum	Estimate of annual accumulation of records in series.	
Series.AccessStartDate	Date when access to series began.	
Series.EndDate	Date when access to series ended.	
Series.DeaccessionDate	Date of deaccession for all records in series.	
Series.Note	Notes about the series.	
SeriesActivity.SeriesActivityID	Database generated, Primary Key	
SeriesActivity.SeriesID	Foreign Key, Series Table.	
SeriesActivity.PeriodStartDate	Date series activity period began.	
SeriesActivity.PeriodEndDate	Date series activity period ended.	
SeriesActivity.UniqueUserCnt	Number of unique users of	

	series during period.	
SeriesActivity.TotalUserCnt	Total number of users of series during period.	
SeriesActivity.Note	Notes about series activity for a given period.	
Aggregate.AggregateID	Database generated, Primary Key	
Aggregate.SeriesID	Foreign Key, Series Table	
Aggregate.Title	Title of Aggregate category assignment. For SEDAC Scientific Data Series mission areas: PLUE, ENTRI, EH, MVA, HVA, AFS, ES, EX, IG.	
Aggregate.AccessStartDate	Date access to aggregate began.	
Aggregate.AccessEndDate	Date when access to aggregate ended.	
Aggregate.DeaccessionDate	Date of deaccession for all records in aggregate.	
Provenance.ProvenanceID	Database generated, Primary Key	
Provenance.AggregateID	Foreign Key, Aggregate Table	
Provenance.Origin	Description of the creation process of the object.	
Provenance.Title	Formal Title that identifies or describes the object.	Title
Provenance.Version	Identification to differentiate object from other versions.	
Provenance.PreIngest	Description of pre-ingest processing and custody of object.	
Provenance.CreationDate	Date object was completed by Author.	Date
Provenance.SubmissionDate	Date object was submitted to the archive for ingest.	
Provenance.Citation	Complete citation for object.	
Provenance.DesignatedCommunity	Description of designated community of users, potential users, or audience for the object: Human interactions in the environment community, Decision-maker, Learner, Manager, Scientist, Teacher.	
Provenance.ReqdPreservationService	Level of preservation service or preservation plan requested by submitter or data provider: Preserve Original Formats; Preserve Content in Supported Formats.	
Provenance.ReqdDisseminatnService	Level of dissemination service or dissemination plan requested by submitter or data provider: Restricted dissemination. Public	

	Dissemination.	
Provenance.ReasonForCreation	Reason or purpose for creating the described object.	
Provenance.CustodyHistory	Chain of custody of object prior to ingest into archive.	
Provenance.ReasonForPreservation	Justification for selecting object for preservation in archive.	
Provenance.AcquisitionDate	Date original object was acquired by archive.	
Provenance.AcquisitionVolume	Volume of original object acquired by archive.	
Provenance.AcquisitionFileInventory	List of all files in original object acquired by archive.	
Provenance.ReceivedDate	Date object received by the Archivist.	
Provenance.DeaccessionDate	Date the object was deaccessioned from archive.	
Provenance.AIPVolume	Total Size of the Archival Information Package created by the archive to preserve the Content Information and Associated Material	
Provenance.ContentInformationSize	Size of Content Information of the Archival Information Package in Bytes.	
Provenance.AssociatedMaterialSize	Size of material associated with the Content Information of the AIP in Bytes.	
Provenance.Functionality	Description of any functional characteristics of the object.	
Provenance.AIPFileInventory	List of all filenames and sizes organized by the directory structure.	
Provenance.AIPDataDictionary	List of each filename in object with title of document or description for each file, including alternate formats.	
Provenance.AIP	All the files within their preservation structure, containing Content Information and Associated Information that has been transformed by the Archive for preservation (location in system if dbms is part of the repository).	
Provenance.AIPCreationDate	Date archive created Preservation Master for Archival Information Package.	
Provenance.ReceivedSIP	All of the files (within their original structure) received from the provider in the Submission Information Package (SIP) containing	

	the Content Information and all Associated Information for the original object acquired (stored in system if dbms is part of the repository).	
Provenance.PreparedSIP	All of the files (within their preservation structure), containing the Content Information and the Associated Information that have been prepared by the Archive for submission to another Archive or Collection (stored in system if dbms is part of the repository).	
Provenance.VitalRecordIndicator	Vital Record status of object: Non-Vital Record, Emergency - Operating Record, Legal or Financial Rights Record, Emergency and Rights Record.	
Provenance.PermRecordIndicator	Indicator that the record is a Permanent Record: N, Y.	
Provenance.RecordCondition	Condition of record.	
Provenance.Description	Description of the intellectual content of the object.	Description
Provenance.Methodology	Instruments and techniques used to create the data.	
Provenance.Variable	Variables, layouts, and codes used to describe the data.	
Provenance.SpatialCoverageDesc	Political or geographical description of spatial coverage.	Coverage
Provenance.SpatialCoverageNote	Latitude and longitude covered, if available.	
Provenance.SpatialResolution	Spatial Resolution.	
Provenance.SpatialResolutionNote	Notes on the spatial resolution of the object.	
Provenance.SRS	Spatial Reference System used for spatial resolution.	
Provenance.BBoxMinX	Minimum X Coordinate (Longitude) for the Bounding Box.	
Provenance.BBoxMinY	Minimum Y Coordinate (Latitude) for the Bounding Box.	
Provenance.BBoxMaxX	Maximum X Coordinate (Longitude) for the Bounding Box.	
Provenance.BBoxMaxY	Maximum Y Coordinate (Latitude) for the Bounding Box.	
Provenance.SpatialCoverage	If database supports native spatial data types, this field should be used to store actual shape of spatial coverage.	

Retention.RetentionID	Database generated, Primary Key	
Retention.ProvenanceID	Foreign Key, Provenance Table, if retention relates to provenance.	
Retention.SeriesID	Foreign Key, Series Table, if retention relates to series.	
Retention.Instruction	Instructions for retention or disposition of record or series: Review every Five Years, Retain Indefinitely, Freeze, Transfer to LTA, Retire, Destroy.	
Retention.InstructionReason	Justification for retention instructions on record or series.	
Retention.InstrctnDate	Date instructions were decided for record or series.	
Retention.InstrctnActDate	Date instructions are to be executed for record or series.	
Retention.ScheduleDate	Date record or series will be reviewed.	
Retention.Authority	Name of individual or group deciding on instructions for record or series: SEDAC UWG, LTA Board.	
TemporalData.TemporalDataID	Database generated, Primary Key	
TemporalData.ProvenanceID	Foreign Key, Provenance Table	
TemporalData.TCovPrecision	Precision of data used to describe temporal coverage: Year, Month, Day.	
TemporalData.TCovStart	Start date for data collection.	
TemporalData.TCovEnd	End date for data collection.	
TemporalData.TCovProjectionTo	Date of temporal coverage projection to a future date.	
TemporalData.TresDescription	Description of temporal resolution, time intervals between successive observations, frequency of granule production.	
Relationship.FromProvenanceID	Foreign Key, Provenance Table, part of Primary Key	
Relationship.ToProvenanceID	Foreign Key, Provenance Table, part of Primary Key	Source, Relation
Relationship.Relation	Part of Primary Key. Type of relationship: Subset, Superset, Derivative, Source, Extract, Version, Release, Edition, Integrates Parts, Compliment.	
Relationship.RelationStartDate	Date relationship began.	
Relationship.RelationEndDate	Date relationship ended.	
Relationship.Note	Note about the relationship.	

Identification.IdentificationID	Database generated, Primary Key	
Identification.ProvenanceID	Foreign Key, Provenance Table	
Identification.IdentifierType	Type of identifier for which the object has been assigned a unique ID: Global Identifier, TDB ID, UMDB Rec #, DOI, ISBN.	
Identification.IdentifierAssigned	Unique Identifier assigned to an object for an identifier type.	Identifier
ProvReference.ProvReferenceID	Database generated, Primary Key	
ProvReference.ProvenanceID	Foreign Key, Provenance Table	
ProvReference.RefAuthor	Names of authors of reference work.	
ProvReference.RefAuthorRole	Role of authors of reference work (Eds.)	
ProvReference.RefTitle	Title of reference work.	
ProvReference.MonographAuthor	Author names of monograph containing reference work.	
ProvReference.MonographAuthRole	Role of authors of monograph containing reference work (Eds.)	
ProvReference.MonographTitle	Title of monograph containing reference work.	
ProvReference.JournalTitle	Title of journal containing reference work.	
ProvReference.TranslatedTitle	English translation of title if in another language.	
ProvReference.Edition	Edition identifier of monograph containing reference work.	
ProvReference.SubsidiaryAuthor	Names of subsidiary authors if author is an institution.	
ProvReference.PublicationPlace	Location where reference work is published.	
ProvReference.Publisher	Name of reference work publisher.	
ProvReference.PublicationDate	Date reference work was published.	
ProvReference.PublicationYear	Year when reference work was published.	
ProvReference.CopyrightDate	Date of copyright for reference work.	
ProvReference.VolumeID	Volume identifier of reference work.	
ProvReference.IssueID	Issue identifier of reference work.	
ProvReference.Page	Range of pages of reference work.	
ProvReference.WorkExtent	Total number of pages of reference work.	
ProvReference.PackagingMethod	Public accessibility of reference work.	

ProvReference.SeriesEditor	Editor of series containing reference work.	
ProvReference.SeriesEditorRole	Role of Editor for series containing reference work.	
ProvReference.SeriesTitle	Title of series containing reference work.	
ProvReference.SeriesVolumeID	Volume identifier for series containing reference work.	
ProvReference.SeriesIssueID	Issue identifier for series containing reference work.	
ProvReference.DocumentType	Type of reference work. Ex: Journal, Book, Proceedings	
ProvReference.URL	URL of text or full reference of reference work.	
ProvReference.Availability	File path or file cabinet if stored, or blank if not available.	
ProvReference.ISBN	ISBN number for reference work.	
ProvReference.Note	Note about reference work.	
ProvReference.RefAbstract	Abstract of reference work.	
ProvReference.CallNumber	Identifier in classification system (LOC, Dewey, or other).	
ProvReference.ReferenceType	Use of object by reference work. Ex: Report,	
ProvReference.RefCitation	Complete bibliographic reference for reference work.	
ProvReference.RefCitSource	Citation database or service listing reference and date found.	
ProvReference.RefUseRight	Right or permission to use reference work, citation, or abstract.	
ProvReference.RefAccessRight	Right/permission to access or link reference work, citation or abstract.	
ProvReference.DisplayOrder	Order in which reference work will appear in reference list.	
Property.PropertyID	Database generated, Primary Key	
Property.PropertyParentID	Foreign Key, Property Table	
Property.PropertyName	Name of the property describing an object: Ingest Status, Ingest Format Processing, Significant Property, DCMI Type, Document Type, Content Type, Subject, Language. For Ingest Status: Under Development by Creator, Being Prepared for Submission, Received by Archivist, Content Review Pending, Content Under Review by Archivist, Content Review Complete,	Subject, Type, Language

	<p>Description Pending, Description Under Review, Description Complete, DOI Assigned, Quality Review Pending, Quality Review Complete, Failed Content Quality Review. Rejected - Data Returned to Creator, Ingested, Destroyed; For Ingest Format Processing: All files Ingested in Supported Formats, Original Non-Supported Formats Only, Original formats and All Files Migrated to Supported Formats; For Significant Properties: Intellectual Content of Text, intellectual content of image; For DCMI Type: Collection, Dataset, Event, Image, Interactive Resource, Moving Image, Physical Object, Service, Software, Sound, Still Image; For Document Type (ISO 19115 Document Type): PresentationFormCode: documentDigital, documentHardcopy, imageDigital, imageHardcopy, mapDigital, mapHardcopy, modelDigital, modelHardcopy, profileDigital, profileHardcopy, tableDigital, tableHardcopy, videoDigital, videoHardcopy; Content Type: Data, Documentation, Permission; Subject thesaurus or controlled vocabulary; Language: English, Spanish.</p>	
Property.PropertyDesc	Description of a property.	
Property.PropertyStatus	Current status of the property: Valid, Not in Use.	
Provenance_Property.ProvenancePropertyID	Database generated, Primary Key	
Provenance_Property.ProvenanceID	Foreign Key, Provenance Table	
Provenance_Property.PropertyID	Foreign Key, Property Table	
Provenance_Property.PPStartDate	Date when property began	
Provenance_Property.PPEndDate	Date when property ended.	
Provenance_Property.Note	Note about property as it pertains to a particular provenance.	

ProvenanceNote.ProvenanceNoteID	Database generated, Primary Key	
ProvenanceNote.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceNote.NoteText	Note about the provenance of an object.	
ProvenanceNote.PostedBy	Person who posted the note about the provenance of an object.	
ProvenanceNote.PostedOn	Date the note was posted.	
ProvenanceNote.NoteType	Type of provenance note: Accession, Maintenance, Disposition.	
OtherTitle.OtherTitleID	Database generated, Primary Key	
OtherTitle.ProvenanceID	Foreign Key, Provenance Table	
OtherTitle.TitleType	Alternate Title, Former Title	
OtherTitle.Title	Other title of an object.	
OtherTitle.Note	Note about the other title of an object.	
Person.PersonID	Database generated, Primary Key	
Person.ProvenanceID	Foreign Key, Provenance Table	
Person.PersonRole	Role of responsible person: Author, Contributor, Recipient, Internal Contact, Accessioner, Originating Organization Technical Contact, Originating Organization Program Contact, Environment Manager, Security Official.	Creator, Contributor
Person.PersonOrder	Order in which person will appear in a Person Role list, if sorted.	
Person.FirstName	First name of person.	
Person.LastName	Last name of person.	
Person.Address1	Line 1 of person address.	
Person.Address2	Line 2 of person address.	
Person.City	City of person.	
Person.State	State of person.	
Person.Country	Country of person.	
Person.PostalCode	Postal code address for person.	
Person.Phone	Telephone number for person.	
Person.Fax	Fax number for person.	
Person.Email1	Primary e-mail address for person.	
Person.Email2	Second e-mail address for person.	
Person.Note	Note about person.	
Institution.InstitutionID	Database generated, Primary Key	
Institution.ProvenanceID	Foreign Key, Provenance	

	Table	
Institution.InstitutionRole	Role of institution for object. Originating Organization, Program Support.	
Institution.InstitutionOrder	Order in which the institution will appear on an institution role list If higher priority has been assigned.	
Institution.InstitutionName	Name of institution.	
Institution.Address1	Line 1 of institution address.	
Institution.Address2	Line 2 of institution address.	
Institution.City	City of institution.	
Institution.State	State of institution.	
Institution.Country	Country of institution.	
Institution.PostalCode	Postal code for institution address.	
Institution.Phone	Telephone number for institution.	
Institution.Fax	Fax number for institution.	
Institution.Website	Website URL for institution.	
Institution.Note	Note about institution.	
Document.DocumentID	Database generated, Primary Key	
Document.ProvenanceID	Foreign Key, Provenance Table	
Document.DocumentType	Type of document describing the object: User Manual, User Guide, Variable List, Codebook, Data Layout, Parameter List, User Notes, File Inventory, Installation Instructions, Splash Page.	
Document.Title	Title of document describing the object.	
Document.ArchivalID	Identifier of the document if recorded as a provenance.	
Document.AccessPoint	URL of access point that disseminates document (http://...; ftp://...).	
Document.FileName	Filename of the document.	
Document.Scheme	Encoding scheme for the document. MARC, EAD, VRA, DC, NISOIMG, LC-AV, TEIHDR (Text Encoding Initiative Header), DDI, FGDC-STD-001-1998, FGDC CSGDM, DIF, ISO 19115, NY State Clearinghouse, Metalite, IEEE LOM, ESRI, Unknown.	
Document.Language	Language in which the document is written: English, Spanish.	
Document.AdditionalInfo	Additional information about the document.	
Distributor.DistributorID	Database generated, Primary Key	

Distributor.DistributorName	Name of the service that distributes a dissemination of an object: CIESIN, Columbia Earth Institute, SEDAC, SEDAC LTA.	Publisher
Distributor.Address1	Line 1 of distributor address.	
Distributor.Address2	Line 2 of distributor address.	
Distributor.City	City of distributor.	
Distributor.State	State of distributor.	
Distributor.PostalCode	Postal Code of distributor.	
Distributor.Country	Country of distributor.	
Distributor.TelePhone	Telephone number of distributor.	
Distributor.Fax	Fax number of distributor.	
Distributor.URL	URL of distributor.	
Distributor.Email	Email address of distributor.	
Distributor.Website	Website of distributor.	
Dissemination.DisseminationID	Database generated, Primary Key	
Dissemination.DistributorID	Foreign Key, Distributor Table	
Dissemination.Medium	Primary data storage medium for distributing object from dissemination service: CD-ROM, DVD, URN, URL, FTP.	
Dissemination.PublicAccessPoint	Primary Access Point for distributing object to the public from dissemination service (http://...; ftp://...).	
Dissemination.InternalLocation	Path and folder name of location from which object is distributed from internal dissemination service.	
Dissemination.DissemSize	Size of object disseminated in Bytes	
Dissemination.StartDate	Date dissemination service began disseminating object.	
Dissemination.EndDate	Date dissemination service discontinued disseminating object.	
Dissemination.DIPDescription	File Inventory of all files included in the Dissemination Information Package (DIP) submitted to dissemination service for distribution.	
Dissemination.DissemCharge	Amount received from dissemination service for distributing object.	
Dissemination.DissemChargeUnit	Monetary unit of DissemCharge.	
Dissemination.OriginalPublisher	Flag indicating that dissemination is by Original Publisher: N, Y.	
Dissemination.PrimaryDistributor	Flag indicating that dissemination is by Primary Distributor: N, Y.	

DissemAltPoint.DissemAltPointID	Database generated, Primary Key	
DissemAltPoint.DisseminationID	Foreign Key, Dissemination Table	
DissemAltPoint.AltAccessPoint	Alternate access point disseminating object (http://...; ftp://...).	
DissemAltPoint.StartDate	Date started disseminating object at alternate access point.	
DissemAltPoint.EndDate	Date stopped disseminating object at alternate access point..	
DissemAltPoint.Note	Note on alternate dissemination point.	
ProvDissemination.ProvDisseminationID	Database generated, Primary Key	
ProvDissemination.DisseminationID	Foreign Key, Dissemination Table, part of Alternate Key	
ProvDissemination.ProvenanceID	Foreign Key, Provenance Table, part of Alternate Key	
ProvDissemination.RootPath	Directory path where object is disseminated within group.	
ProvDissemination.StartDate	Date object began being disseminated within group.	
ProvDissemination.EndDate	Date object no longer disseminated within group.	
ProvDissemination.Note	Note on object dissemination within group.	
PDFFileList.PDFFileListID	Database generated, Primary Key	
PDFFileList.ProvDissemID	Foreign Key, ProvDissemination Table	
PDFFileList.FileName	Name of the file listing files disseminated in dissemination.	
PDFFileList.StartDate	Date the listed files were included in dissemination.	
PDFFileList.EndDate	Date the listed files were no longer in dissemination.	
PDFFileList.Note	Note about the list of files included within dissemination.	
Catalog.CatalogID	Database generated, Primary Key.	
Catalog.CatalogName	Name of the catalog where an object is registered: SEDAC, CIESIN, EDGRS, ESIP, DLESE, NSDL.	
Catalog.URL	URL of the catalog where an object is registered.	
Catalog.ContactInfo	Contact information for a catalog where an object is registered.	
CatalogEntry.CatalogEntryID	Database generated,	

	Primary Key.	
CatalogEntry.DisseminationID	Foreign Key, Dissemination Table.	
CatalogEntry.CatalogID	Foreign Key, Catalog Table.	
CatalogEntry.EntryID	Unique Identifier in the catalog for the record describing the object.	
CatalogEntry.Submission	Date description of entry was submitted to a catalog.	
CatalogEntry.StartDate	Date catalog entry was available.	
CatalogEntry.EndDate	Date catalog entry was no longer available.	
CatalogEntry.EntryStatus	Status of catalog entry: None, Partial, Complete, Removed.	
CatalogEntry.EntryDesc	Description of the dissemination included in the fields of the entry.	
CatalogEntry.EntryLastUpdate	Date of the last update to the catalog entry for the object.	
CatalogEntry.Note	Note about the catalog entry for an object.	
Location.LocationID	Database generated, Primary Key	
Location.LocType	Type of location. Onsite Offline Archive, Offsite Offline Archive, Onsite Processing, Onsite Network, Onsite Storage Shelves.	
Location.LocName	Name of the Location. CIESIN Archival Facility, GISS Computer Room, Geoscience Computer Room, Geoscience Storage Room.	
Location.LocDesc	Description of the archival facilities at the location.	
Location.LocAGENT	Name of the individual responsible for the location.	
LocationParam.LocationParamID	Database generated, Primary Key	
LocationParam.LocationID	Foreign Key, Location Table	
LocationParam.ParamName	Name of the parameter measured at the location: Temperature, High Temperature, Low Temperature, Humidity, High Humidity, Low Humidity, Inventory, Recovery Test.	
LocationParam.ParamValue	Value of the parameter measured at the location.	
LocationParam.ParamUnit	Unit of measurement for recorded value measured at location: Degrees	

	Fahrenheit, Percentage.	
LocationParam.ParamDate	Date and time of measurement.	
LocationParam.ParamNote	Note on instrument or parameter measured.	
Media.MediaID	Database generated, Primary Key	
Media.MediaType	Type of media used: CD-ROM, CD-R, DVD-R, DVD+R, Print.	
Media.MediaBrand	Brand of the media: TDK 700 MB 48x Data CD-R.	
Media.MediaPurchaseDate	Date the media was purchased.	
Media.Note	Note about the media.	
Media_Location.LocationID	Database generated, Primary Key	
Media_Location.MediaID	Foreign Key, Media Table	
Media_Location.DepositedOn	Date the archival media was deposited at the location.	
Media_Location.RemovedOn	Date the archival media was removed from the location.	
Media_Location.Note	Note about the archival media housed at a location.	
Event.EventID	Database generated, Primary Key	
Event.MediaID	Foreign Key, Media Table	
Event.EventStatus	Status of the event: Complete, Scheduled, Postponed.	
Event.Designation	Name of the event: Deposit, Inventory, Audit, Inspection, Virus Check, Media Write, Quality Check, Format Conversion, Removal, Check Out, Bring Forward, Media Request, Media Destruction.	
Event.Procedure	Procedure completed on media during an event.	
Event.Location	Location where the event occurred.	
Event.EventDate	Date and time of event.	
Event.Outcome	Description of the event outcome.	
Event.Note	Note about the event.	
Event.ResponsiblePerson	Individual responsible for the event.	
Event.RetrievalRecipient	Individual who received the media.	
Event.RetrievalRequestor	Individual who requested the media.	
ProvenanceMedia.ProvenanceMediaID	Database generated, Primary Key	
ProvenanceMedia.ProvenanceID	Foreign Key, Provenance	

	Table	
ProvenanceMedia.MediaID	Foreign Key, Media Table	
ProvenanceMedia.MediaCopy	Instance of object stored on media: Preservation Master, Security Master, Duplication Master, Access Service Copy.	
ProvenanceMedia.RootPath	Path and directory of the object on the media.	
ProvenanceMedia.WriteDate	Date the object was written on the media.	
ProvenanceMedia.DeleteDate	Date the object was deleted from the media.	
ProvenanceMedia.ValidationProc	Signature type used to generate validation key: MD5, SHA-1.	
ProvenanceMedia.KeyCreationDate	Date validation key was generated.	
ProvenanceMedia.Result	Hash value, filename, or path and filename of stored validation signature.	
ProvenanceMedia.LastCheckDate	Date validation key generated and compared with original.	
ProvenanceMedia.NextCheckDate	Date scheduled for validation key comparison.	
DataFile.DataFileID	Database generated, Primary Key	
DataFile.ProvenanceMediaID	Foreign Key, ProvenanceMedia Table	
DataFile.FileName	Name of the file including its extension.	
DataFile.FileSize	Size of the file in bytes.	
DataFile.ContentType	Type of content in the file: Data, Documentation, Permission, Startup.	
DataFile.MarkupType	Type of markup used to encode contents of file: HTML, SGML, XML.	
DataFile.MarkupName	Name of schema and version employed for the MarkupType: TEI DTD, W3C XML.	
DataFile.MarkupSchema	Contents of schema used for the Markup Type.	
DataFile.FileAccessRight	Access rights or limitations specific to file: Universal Access -unrestricted, Research Use Only, Educational Use Only, Research and Educational Use Only, Non-Commercial Use Only, On-Site Use Only, Signed Confidentiality Agreement Only, Staff Only, Staff Addresses Only, Licensees Only, Domestic IP Addresses Only, No Online Access, No Access Allowed Pending Further	

	Evaluation.	
DataFile.ExpofAccessRight	Date access rights or restrictions specific to file expire.	
DataFile.PreservRestrictn	Preservation rights or limitations for preserving file.	
DataFile.EncryptionInfo	Description of encryption employed on file.	
DataFile.AccessInhibitors	Inhibitors to access inherent to the file: Password protection, AAA watermark.	
DataFile.FileType	MIME Media Type for file in format Content Type/Subtype: application/pdf, audio/mpeg, image/tiff, message/http, model/vrml, multipart/signed, text/html, video/mpeg.	Format
DataFile.FileVersion	Version of the MIME Media Type.	
DataFile.FileFormat	Software program used to create the file: Microsoft Word 2000, Microsoft Excel 2000.	
DataFile.FormatRegistry	Registry to identify the software program used to create or view the file: Pronom.	
DataFile.RegistryEntry	Entry in the Format Registry for the file format.	
DataFile.DateModified	Last date and time when file was written or modified.	
DataFile.PreservFormat	File format is a preservation format: Y, N.	
DataFile.AltFormat	Alternate or derivative formats that contain contents of file: txt, csv, pdf.	
DataFile.OriginalFileID	Foreign key to DataFile.DataFileID. DataFileID for original file from which the file is a derivative.	
DataFile.OriginalFileName	Filename (and extension) for the original source file from which the file described is a derivative.	
DataFile.Creation	Description of the file creation, coded to record file history: Original file received, Migrated file, Archive generated file.	
DataFile.History	Description of file history, coded string to record file history: O = Original file received. M = Migrated file. A = Archive generated file. MMO = Migrated file from Migrated file from Original file.	

DataFile.RefreshDate	Last date and time file was written to any media.	
DataFile.AccessStartDate	Date when access to file may be granted.	
DataFile.AccessEndDate	Date when access to file ends.	
DataFile.DeaccessionDate	Date when file was deaccessioned from archive.	
FilePart.FilePartID	Database generated, Primary Key	
FilePart.DataFileID	Foreign Key, DataFile Table	
FilePart.FilePartType	Type of FilePart: Table, Screenshot, Thumbnail Image, Page Image, Annotation, Mask, Metadata Text.	
FilePart.FilePartLoc	Location or address of FilePart within the file: Unknown.	
FilePart.FilePartDesc	Description of FilePart differentiated from file.	
Environment.EnvironmentID	Database generated, Primary Key	
Environment.DataFileID	Foreign Key, DataFile Table	
Environment.EnvironmentType	Type of environment required for data file: Rendering Software, Display Application, Operating System, Middleware, Hardware CPU, Hardware Peripherals.	
Environment.Title	Title of environment software or hardware required.	
Environment.Description	Description of implementation environment for data file.	
Environment.Documentation	Documentation for the implementation environment.	
Environment.ExpiryDate	Date environment is scheduled to expire or be replaced.	
AccessRestriction.AccessRestrictionID	Database generated, Primary Key	
AccessRestriction.ProvenanceID	Foreign Key, Provenance Table	
AccessRestriction.AccessRestriction	Security category or type of restriction: Onsite Use Only - Confidential Data- No Copying, Permission from Project Director Required, Confidentiality Agreement Required - No Copying or Network Access, Project Director only, Universal	

	Access (unrestricted), Research Use Only, Educational Use Only, Research and Educational Use Only, Non-Commercial Use Only, On-Site Use Only, Signed Confidentiality Agreement Only, CU Personnel Only, CU Addresses Only, Domestic IP Addresses Only, No Online Access.	
AccessRestriction.AccessRestrictionDesc	Description of restriction on access to object.	
AccessRestriction.CurrentDeclaration	Confidentiality agreement or user agreement on restriction.	
AccessRestriction.SecurityNote	Note about the security restriction on object.	
AccessRestriction.SecurityReviewDate	Date security restriction is scheduled for review.	
AccessRestriction.ARStartDate	Date access restriction on object begins.	
AccessRestriction.AREndDate	Date access restriction on object ends.	
Decision.DecisionID	Database generated, Primary Key	
Decision.DecisionType	Type of Decision: Acquisition, Nomination for Dissemination, Nomination for Deaccession, Nomination for Transfer, Nomination for Accession, Dissemination, Disposition, Transfer, Provisional Use, Beta System Dissemination; Production System Dissemination.	
Decision.Decision	Decision about an object for a Decision Type. For Preservation Service: Preserve content, Preserve Original Formats; For SEDAC: Disseminate, Ancillary Product, Transfer to LTA; For SEDAC Acquisition: redistributed 3rd party data, value-added 3rd party data, SEDAC- developed; For LTA: Public Dissemination, Restricted Dissemination; (Others Considered: Under Review, Disseminate, Delete, Remove) The following 7 categories are not mutually exclusive: Delete; Retire; Long-Term Archive; Archive, But Not Disseminate, SEDAC Disseminate by Type: -	

	Subsets Only, - Web Download - Internet Mapping; Missing; Add to SDP; Consolidate.	
Decision.MeetingDate	Date when the decision was made.	
Decision.DecisionActiveDate	Date on which the decision is implemented.	
Decision.Authority	Authority deciding the status of an object within the archive: CIESIN Director, CIESIN Deputy Director, CIESIN Associate Director for IS, SEDAC UWG, SEDAC Project Manager, SEDAC Lead Project Scientist, SEDAC Archives Manager, SEDAC Archivist, LTA Board, LTA Manager, LTA Archivist.	
Decision.Note	Note of Rationale or Justification for making the decision.	
ProvenanceDecision.ProvenanceDecisionID	Database generated, Primary Key	
ProvenanceDecision.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceDecision.DecisionID	Foreign Key, Decision Table	
ProvenanceDecision.Note	Note about the decision in reference to a specific provenance.	
RightOwner.RightOwnerID	Database generated, Primary Key	
RightOwner.Entity	Organization that owns right for an object or Public Domain.	
RightOwner.Signator	Person who signed document authorizing a right for an object.	
RightOwner.SignatorTitle	Title of signer authorizing a right for an object.	
RightOwner.SigContactInfo	Contact information for signer authorizing a right for an object.	
RightOwner.Address1	Line 1 of right owner address.	
RightOwner.Address2	Line 2 of right owner address.	
RightOwner.City	City of right owner.	
RightOwner.State	State of right owner.	
RightOwner.Country	Country of right owner.	
RightOwner.PostalCode	Postal code for right owner.	
RightOwner.Telephone	Telephone number for right owner.	
RightOwner.Fax	Fax number for right owner.	
RightOwner.Email	E-mail for right owner.	
RightOwner.Website	URL of right owner website.	
RightOwner.Note	Note about right owner.	

Right.RightID	Database generated, Primary Key	
Right.RightType	Type of right held: copyright, license, public domain, contract, Permission.	
Right.RightName	Distribution Right, Usage Right, Preservation Right, Access Right, Print Right.	
Right.RightDesc	Description of the right and intellectual property restrictions or obligations.	Rights
Right.Note	Note on rights for object.	
RightHeld.RightHeldID	Database generated, Primary Key	
RightHeld.RightOwnerID	Foreign Key, RightOwner Table	
RightHeld.ProvenanceID	Foreign Key, Provenance Table	
RightHeld.RightID	Foreign Key, Right Table	
RightHeld.RightOrigination	Right granted to others or received from owner: Granted, Received.	
RightHeld.CurDeclaration	Content of license, contract, or permission statement.	
RightHeld.RightDocFile	Filename and directory path of the digital (or scanned) document that authorizes rights for an object.	
RightHeld.RightDocLoc	Location of original printed license, contract, or permission document: Onsite Archive, Offsite Archive, Storeroom, Not Printed.	
RightHeld.BeginDate	Date of execution for rights held or date of contract if not specified.	
RightHeld.ExpiryDate	Date of expiration for rights held or null if no expiration date.	
RightHeld.Receiver	Person who signed document (or agreed to conditions) and is authorized to acquire or use object.	
RightHeld.Cost	Cost to acquire object or rights to object.	
RightHeld.CostUnit	Monetary unit for cost to acquire object or rights to object.	
RightHeld.Note	Note on right held for an object.	
RightHeld.RightBrief	Brief description of right held and intended usage group or purpose: Use and distribute freely, Use and distribute only within organization, Distribute for	

	research or educational purposes, Third party distribution, Research use only, Educational use only, Non-commercial use only, Staff use only.	
RightHeld.Request	Request for rights, including the reason to justify authorization.	

**Crosswalk:
Data Model for Managing and Preserving Geospatial Electronic Records to
National Library of Australia Preservation Metadata for Digital Collections,
Available Online: <http://www.nla.gov.au/preserve/pmeta.html>**

Field	Definition	NLA Preservation Metadata
Collection.CollectionID	Database generated, Primary Key	1. Persistent Identifier (Collection)
Collection.Title	Title for a Collection: CIESIN Archive, SEDAC Scientific Data Archives, specific project Archive.	17. Institution Responsible for Archiving Decision (Collection)
Collection.Description	Description of the collection and keywords.	3. Structural Type (Collection)
Collection.AccessReqmnt	Requirements for accessing the collection: Object Specific Requirements, CMB Approval, Systems Manager Approval.	6. Known System Requirements (Collection)
Collection.InstallReqmnt	Requirements for installation of collection	7. Installation Requirements (Collection)
Collection.SizeReqmnt	Storage volume requirement for collection, automatically calculated.	8. Storage Information (Collection)
Collection.AccessInhibitor	Method(s) employed to inhibit access to collection that could affect preservation, such as encryption or watermarking.	9. Access Inhibitors (Collection)
Collection.FindingAid	Method used to facilitate discovery of collection.	10. Finding and Searching Aids, and Access Facilitators (Collection)
Collection.PresrvPermission	Statement of permission to copy collection or migrate to various formats for preservation.	11. Preservation Action Permission (Collection)
Collection.RelationDesc	Description of relationships, relevant for preservation, between collection and other objects or collections.	13. Relationships (Collection)
Collection.Quirk	Characteristic that could degrade functionality or aspects of the collection.	14. Quirks (Collection)
Collection.Purpose	Purpose and reason for archiving the collection: Funding Agency Requirement; Scientific Value; Historical value; Fiduciary responsibility.	16. Decision Reason (Collection)
Collection.DecisionDate	Date of decision to archive the collection.	15. Archiving Decision (Collection)
Collection.AccessStartDate	Date access was provided to collection.	2. Date (Collection)
Collection.AccessEndDate	Date when access to collection ended.	
Collection.DeaccessionDate	Date collection is deaccessioned by archive.	
Collection.Note	Notes about collection.	23. Process, 25. Other
Series.SeriesID	Database generated,	

	Primary Key	
Series.CollectionID	Foreign Key, Collection Table	
Series.Title	Title of a record series category within a Collection: CIESIN Administrative Records, CIESIN Records Common to All Projects, CIESIN Scientific Data, SEDAC Operations Records, SEDAC Active Archive, SEDAC Long-Term Archive.	
Series.SeriesCode	Unique identifier for the record category: SEDAC Active Archive, SEDAC Long-Term Archive, CIESIN Archive, Series 100 CIESIN Records, Series 500 CIESIN Records, Series 600 SEDAC Operations Records, Series 700 SEDAC Active Archive, Series 800 Series Long-Term Archive.	
Series.Description	Description of the series.	
Series.VRIndicator	Category of vital records, if applicable, for the series: Non-Vital Records, Emergency - Operating Records, Legal or Financial Rights, Emergency and Rights Records.	
Series.VRRReviewDate	Date of next review of vital records in series.	
Series.Activity	Level of use for series, assignment based on SeriesActivity.	
Series.ActivityDate	Date when activity for the series was reviewed and assigned.	
Series.CutoffDate	Date to cutoff records in series.	
Series.AnnualAccum	Estimate of annual accumulation of records in series.	
Series.AccessStartDate	Date when access to series began.	
Series.EndDate	Date when access to series ended.	
Series.DeaccessionDate	Date of deaccession for all records in series.	
Series.Note	Notes about the series.	
SeriesActivity.SeriesActivityID	Database generated, Primary Key	
SeriesActivity.SeriesID	Foreign Key, Series Table.	
SeriesActivity.PeriodStartDate	Date series activity period began.	
SeriesActivity.PeriodEndDate	Date series activity period ended.	

SeriesActivity.UniqueUserCnt	Number of unique users of series during period.	
SeriesActivity.TotalUserCnt	Total number of users of series during period.	
SeriesActivity.Note	Notes about series activity for a given period.	25. Other
Aggregate.AggregateID	Database generated, Primary Key	
Aggregate.SeriesID	Foreign Key, Series Table	
Aggregate.Title	Title of Aggregate category assignment. For SEDAC Scientific Data Series mission areas: PLUE, ENTRI, EH, MVA, HVA, AFS, ES, EX, IG.	
Aggregate.AccessStartDate	Date access to aggregate began.	
Aggregate.AccessEndDate	Date when access to aggregate ended.	
Aggregate.DeaccessionDate	Date of deaccession for all records in aggregate.	
Provenance.ProvenanceID	Database generated, Primary Key	1. Persistent Identifier (Object)
Provenance.AggregateID	Foreign Key, Aggregate Table	
Provenance.Origin	Description of the creation process of the object.	
Provenance.Title	Formal Title that identifies or describes the object.	23. Process
Provenance.Version	Identification to differentiate object from other versions.	
Provenance.PreIngest	Description of pre-ingest processing and custody of object.	
Provenance.CreationDate	Date object was completed by Author.	2. Date (Object)
Provenance.SubmissionDate	Date object was submitted to the archive for ingest.	
Provenance.Citation	Complete citation for object.	
Provenance.DesignatedCommunity	Description of designated community of users, potential users, or audience for the object: Human interactions in the environment community, Decision-maker, Learner, Manager, Scientist, Teacher.	
Provenance.ReqdPreservationService	Level of preservation service or preservation plan requested by submitter or data provider: Preserve Original Formats; Preserve Content in Supported Formats.	
Provenance.ReqdDisseminatnService	Level of dissemination service or dissemination plan requested by submitter or data provider: Restricted	

	dissemination. Public Dissemination.	
Provenance.ReasonForCreation	Reason or purpose for creating the described object.	
Provenance.CustodyHistory	Chain of custody of object prior to ingest into archive.	
Provenance.ReasonForPreservation	Justification for selecting object for preservation in archive.	
Provenance.AcquisitionDate	Date original object was acquired by archive.	
Provenance.AcquisitionVolume	Volume of original object acquired by archive.	
Provenance.AcquisitionFileInventory	List of all files in original object acquired by archive.	4. Technical Infrastructure of Complex Object (Object)
Provenance.ReceivedDate	Date object received by the Archivist.	
Provenance.DeaccessionDate	Date the object was deaccessioned from archive.	
Provenance.AIPVolume	Total Size of the Archival Information Package created by the archive to preserve the Content Information and Associated Material	8. Storage Information (Object)
Provenance.ContentInformationSize	Size of Content Information of the Archival Information Package in Bytes.	
Provenance.AssociatedMaterialSize	Size of material associated with the Content Information of the AIP in Bytes.	
Provenance.Functionality	Description of any functional characteristics of the object.	
Provenance.AIPFileInventory	List of all filenames and sizes organized by the directory structure.	
Provenance.AIPDataDictionary	List of each filename in object with title of document or description for each file, including alternate formats.	
Provenance.AIP	All the files within their preservation structure, containing Content Information and Associated Information that has been transformed by the Archive for preservation (location in system if dbms is part of the repository).	
Provenance.AIPCreationDate	Date archive created Preservation Master for Archival Information Package.	
Provenance.ReceivedSIP	All of the files (within their original structure) received from the provider in the Submission Information	

	Package (SIP) containing the Content Information and all Associated Information for the original object acquired (stored in system if dbms is part of the repository).	
Provenance.PreparedSIP	All of the files (within their preservation structure), containing the Content Information and the Associated Information that have been prepared by the Archive for submission to another Archive or Collection (stored in system if dbms is part of the repository).	
Provenance.VitalRecordIndicator	Vital Record status of object: Non-Vital Record, Emergency - Operating Record, Legal or Financial Rights Record, Emergency and Rights Record.	
Provenance.PermRecordIndicator	Indicator that the record is a Permanent Record: N, Y.	
Provenance.RecordCondition	Condition of record.	
Provenance.Description	Description of the intellectual content of the object.	
Provenance.Methodology	Instruments and techniques used to create the data.	
Provenance.Variable	Variables, layouts, and codes used to describe the data.	
Provenance.SpatialCoverageDesc	Political or geographical description of spatial coverage.	
Provenance.SpatialCoverageNote	Latitude and longitude covered, if available.	
Provenance.SpatialResolution	Spatial Resolution.	
Provenance.SpatialResolutionNote	Notes on the spatial resolution of the object.	
Provenance.SRS	Spatial Reference System used for spatial resolution.	
Provenance.BBoxMinX	Minimum X Coordinate (Longitude) for the Bounding Box.	
Provenance.BBoxMinY	Minimum Y Coordinate (Latitude) for the Bounding Box.	
Provenance.BBoxMaxX	Maximum X Coordinate (Longitude) for the Bounding Box.	
Provenance.BBoxMaxY	Maximum Y Coordinate (Latitude) for the Bounding Box.	
Provenance.SpatialCoverage	If database supports native spatial data types, this field should be used to store actual shape of spatial	

	coverage.	
Retention.RetentionID	Database generated, Primary Key	
Retention.ProvenanceID	Foreign Key, Provenance Table, if retention relates to provenance.	
Retention.SeriesID	Foreign Key, Series Table, if retention relates to series.	
Retention.Instruction	Instructions for retention or disposition of record or series: Review every Five Years, Retain Indefinitely, Freeze, Transfer to LTA, Retire, Destroy.	15. Archiving Decision
Retention.InstructionReason	Justification for retention instructions on record or series.	16. Decision Reason
Retention.InstrctnDate	Date instructions were decided for record or series.	
Retention.InstrctnActDate	Date instructions are to be executed for record or series.	
Retention.ScheduleDate	Date record or series will be reviewed.	
Retention.Authority	Name of individual or group deciding on instructions for record or series: SEDAC UWG, LTA Board.	17. Institution Responsible for Archiving Decision
TemporalData.TemporalDataID	Database generated, Primary Key	
TemporalData.ProvenanceID	Foreign Key, Provenance Table	
TemporalData.TCovPrecision	Precision of data used to describe temporal coverage: Year, Month, Day.	
TemporalData.TCovStart	Start date for data collection.	
TemporalData.TCovEnd	End date for data collection.	
TemporalData.TCovProjectionTo	Date of temporal coverage projection to a future date.	
TemporalData.TresDescription	Description of temporal resolution, time intervals between successive observations, frequency of granule production.	
Relationship.FromProvenanceID	Foreign Key, Provenance Table, part of Primary Key	
Relationship.ToProvenanceID	Foreign Key, Provenance Table, part of Primary Key	13. Relationships
Relationship.Relation	Part of Primary Key. Type of relationship: Subset, Superset, Derivative, Source, Extract, Version, Release, Edition, Integrates Parts, Compliment.	13. Relationships
Relationship.RelationStartDate	Date relationship began.	
Relationship.RelationEndDate	Date relationship ended.	

Relationship.Note	Note about the relationship.	
Identification.IdentificationID	Database generated, Primary Key	
Identification.ProvenanceID	Foreign Key, Provenance Table	
Identification.IdentifierType	Type of identifier for which the object has been assigned a unique ID: Global Identifier, TDB ID, UMDB Rec #, DOI, ISBN.	
Identification.IdentifierAssigned	Unique Identifier assigned to an object for an identifier type.	
ProvReference.ProvReferenceID	Database generated, Primary Key	
ProvReference.ProvenanceID	Foreign Key, Provenance Table	
ProvReference.RefAuthor	Names of authors of reference work.	
ProvReference.RefAuthorRole	Role of authors of reference work (Eds.)	
ProvReference.RefTitle	Title of reference work.	
ProvReference.MonographAuthor	Author names of monograph containing reference work.	
ProvReference.MonographAuthRole	Role of authors of monograph containing reference work (Eds.)	
ProvReference.MonographTitle	Title of monograph containing reference work.	
ProvReference.JournalTitle	Title of journal containing reference work.	
ProvReference.TranslatedTitle	English translation of title if in another language.	
ProvReference.Edition	Edition identifier of monograph containing reference work.	
ProvReference.SubsidiaryAuthor	Names of subsidiary authors if author is an institution.	
ProvReference.PublicationPlace	Location where reference work is published.	
ProvReference.Publisher	Name of reference work publisher.	
ProvReference.PublicationDate	Date reference work was published.	
ProvReference.PublicationYear	Year when reference work was published.	
ProvReference.CopyrightDate	Date of copyright for reference work.	
ProvReference.VolumeID	Volume identifier of reference work.	
ProvReference.IssueID	Issue identifier of reference work.	
ProvReference.Page	Range of pages of reference work.	
ProvReference.WorkExtent	Total number of pages of reference work.	
ProvReference.PackagingMethod	Public accessibility of	

	reference work.	
ProvReference.SeriesEditor	Editor of series containing reference work.	
ProvReference.SeriesEditorRole	Role of Editor for series containing reference work.	
ProvReference.SeriesTitle	Title of series containing reference work.	
ProvReference.SeriesVolumeID	Volume identifier for series containing reference work.	
ProvReference.SeriesIssueID	Issue identifier for series containing reference work.	
ProvReference.DocumentType	Type of reference work. Ex: Journal, Book, Proceedings	
ProvReference.URL	URL of text or full reference of reference work.	
ProvReference.Availability	File path or file cabinet if stored, or blank if not available.	
ProvReference.ISBN	ISBN number for reference work.	
ProvReference.Note	Note about reference work.	25. Other
ProvReference.RefAbstract	Abstract of reference work.	
ProvReference.CallNumber	Identifier in classification system (LOC, Dewey, or other).	
ProvReference.ReferenceType	Use of object by reference work. Ex: Report,	
ProvReference.RefCitation	Complete bibliographic reference for reference work.	
ProvReference.RefCitSource	Citation database or service listing reference and date found.	
ProvReference.RefUseRight	Right or permission to use reference work, citation, or abstract.	
ProvReference.RefAccessRight	Right/permission to access or link reference work, citation or abstract.	
ProvReference.DisplayOrder	Order in which reference work will appear in reference list.	
Property.PropertyID	Database generated, Primary Key	
Property.PropertyParentID	Foreign Key, Property Table	
Property.PropertyName	Name of the property describing an object: Ingest Status, Ingest Format Processing, Significant Property, DCMI Type, Document Type, Content Type, Subject, Language. For Ingest Status: Under Development by Creator, Being Prepared for Submission, Received by Archivist, Content Review Pending, Content Under Review by Archivist,	3. Structural Type (Object), 14. Quirks

	<p>Content Review Complete, Description Pending, Description Under Review, Description Complete, DOI Assigned, Quality Review Pending, Quality Review Complete, Failed Content Quality Review. Rejected - Data Returned to Creator, Ingested, Destroyed; For Ingest Format Processing: All files Ingested in Supported Formats, Original Non-Supported Formats Only, Original formats and All Files Migrated to Supported Formats; For Significant Properties: Intellectual Content of Text, intellectual content of image; For DCMI Type: Collection, Dataset, Event, Image, Interactive Resource, Moving Image, Physical Object, Service, Software, Sound, Still Image; For Document Type (ISO 19115 Document Type): PresentationFormCode: documentDigital, documentHardcopy, imageDigital, imageHardcopy, mapDigital, mapHardcopy, modelDigital, modelHardcopy, profileDigital, profileHardcopy, tableDigital, tableHardcopy, videoDigital, videoHardcopy; Content Type: Data, Documentation, Permission; Subject thesaurus or controlled vocabulary; Language: English, Spanish.</p>	
Property.PropertyDesc	Description of a property.	
Property.PropertyStatus	Current status of the property: Valid, Not in Use.	
Provenance_Property.ProvenancePropertyID	Database generated, Primary Key	
Provenance_Property.ProvenanceID	Foreign Key, Provenance Table	
Provenance_Property.PropertyID	Foreign Key, Property Table	
Provenance_Property.PPStartDate	Date when property began	
Provenance_Property.PPEndDate	Date when property ended.	
Provenance_Property.Note	Note about property as it pertains to a particular provenance.	25. Other

ProvenanceNote.ProvenanceNoteID	Database generated, Primary Key	
ProvenanceNote.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceNote.NoteText	Note about the provenance of an object.	25. Other
ProvenanceNote.PostedBy	Person who posted the note about the provenance of an object.	
ProvenanceNote.PostedOn	Date the note was posted.	
ProvenanceNote.NoteType	Type of provenance note: Accession, Maintenance, Disposition.	
OtherTitle.OtherTitleID	Database generated, Primary Key	
OtherTitle.ProvenanceID	Foreign Key, Provenance Table	
OtherTitle.TitleType	Alternate Title, Former Title	
OtherTitle.Title	Other title of an object.	
OtherTitle.Note	Note about the other title of an object.	
Person.PersonID	Database generated, Primary Key	
Person.ProvenanceID	Foreign Key, Provenance Table	
Person.PersonRole	Role of responsible person: Author, Contributor, Recipient, Internal Contact, Accessioner, Originating Organization Technical Contact, Originating Organization Program Contact, Environment Manager, Security Official.	24. Record Creator
Person.PersonOrder	Order in which person will appear in a Person Role list, if sorted.	
Person.FirstName	First name of person.	
Person.LastName	Last name of person.	
Person.Address1	Line 1 of person address.	
Person.Address2	Line 2 of person address.	
Person.City	City of person.	
Person.State	State of person.	
Person.Country	Country of person.	
Person.PostalCode	Postal code address for person.	
Person.Phone	Telephone number for person.	
Person.Fax	Fax number for person.	
Person.Email1	Primary e-mail address for person.	
Person.Email2	Second e-mail address for person.	
Person.Note	Note about person.	
Institution.InstitutionID	Database generated, Primary Key	

Institution.ProvenanceID	Foreign Key, Provenance Table	
Institution.InstitutionRole	Role of institution for object. Originating Organization, Program Support.	
Institution.InstitutionOrder	Order in which the institution will appear on an institution role list If higher priority has been assigned.	
Institution.InstitutionName	Name of institution.	22. Institution with Preservation Responsibility
Institution.Address1	Line 1 of institution address.	
Institution.Address2	Line 2 of institution address.	
Institution.City	City of institution.	
Institution.State	State of institution.	
Institution.Country	Country of institution.	
Institution.PostalCode	Postal code for institution address.	
Institution.Phone	Telephone number for institution.	
Institution.Fax	Fax number for institution.	
Institution.Website	Website URL for institution.	
Institution.Note	Note about institution.	
Document.DocumentID	Database generated, Primary Key	
Document.ProvenanceID	Foreign Key, Provenance Table	
Document.DocumentType	Type of document describing the object: User Manual, User Guide, Variable List, Codebook, Data Layout, Parameter List, User Notes, File Inventory, Installation Instructions, Splash Page.	6. Known System Requirements (Object) 7. Installation Requirements (Object) 9. Access Inhibitors
Document.Title	Title of document describing the object.	
Document.ArchivalID	Identifier of the document if recorded as a provenance.	
Document.AccessPoint	URL of access point that disseminates document (http://...; ftp://...).	
Document.FileName	Filename of the document.	
Document.Scheme	Encoding scheme for the document. MARC, EAD, VRA, DC, NISOIMG, LC-AV, TEIHDR (Text Encoding Initiative Header), DDI, FGDC-STD-001-1998, FGDC CSGDM, DIF, ISO 19115, NY State Clearinghouse, Metalite, IEEE LOM, ESRI, Unknown.	
Document.Language	Language in which the document is written: English, Spanish.	
Document.AdditionalInfo	Additional information about the document.	

Distributor.DistributorID	Database generated, Primary Key	
Distributor.DistributorName	Name of the service that distributes a dissemination of an object: CIESIN, Columbia Earth Institute, SEDAC, SEDAC LTA.	
Distributor.Address1	Line 1 of distributor address.	
Distributor.Address2	Line 2 of distributor address.	
Distributor.City	City of distributor.	
Distributor.State	State of distributor.	
Distributor.PostalCode	Postal Code of distributor.	
Distributor.Country	Country of distributor.	
Distributor.TelePhone	Telephone number of distributor.	
Distributor.Fax	Fax number of distributor.	
Distributor.URL	URL of distributor.	
Distributor.Email	Email address of distributor.	
Distributor.Website	Website of distributor.	
Dissemination.DisseminationID	Database generated, Primary Key	
Dissemination.DistributorID	Foreign Key, Distributor Table	
Dissemination.Medium	Primary data storage medium for distributing object from dissemination service: CD-ROM, DVD, URN, URL, FTP.	
Dissemination.PublicAccessPoint	Primary Access Point for distributing object to the public from dissemination service (http://... ; ftp://...).	
Dissemination.InternalLocation	Path and folder name of location from which object is distributed from internal dissemination service.	
Dissemination.DissemSize	Size of object disseminated in Bytes	
Dissemination.StartDate	Date dissemination service began disseminating object.	
Dissemination.EndDate	Date dissemination service discontinued disseminating object.	
Dissemination.DIPDescription	File Inventory of all files included in the Dissemination Information Package (DIP) submitted to dissemination service for distribution.	
Dissemination.DissemCharge	Amount received from dissemination service for distributing object.	
Dissemination.DissemChargeUnit	Monetary unit of DisseminationCharge.	
Dissemination.OriginalPublisher	Flag indicating that dissemination is by Original Publisher: N, Y.	
Dissemination.PrimaryDistributor	Flag indicating that	

	dissemination is by Primary Distributor: N. Y.	
DissemAltPoint.DissemAltPointID	Database generated, Primary Key	
DissemAltPoint.DisseminationID	Foreign Key, Dissemination Table	
DissemAltPoint.AltAccessPoint	Alternate access point disseminating object (http://...; ftp://...).	
DissemAltPoint.StartDate	Date started disseminating object at alternate access point.	
DissemAltPoint.EndDate	Date stopped disseminating object at alternate access point..	
DissemAltPoint.Note	Note on alternate dissemination point.	
ProvDissemination.ProvDisseminationID	Database generated, Primary Key	
ProvDissemination.DisseminationID	Foreign Key, Dissemination Table, part of Alternate Key	
ProvDissemination.ProvenanceID	Foreign Key, Provenance Table, part of Alternate Key	
ProvDissemination.RootPath	Directory path where object is disseminated within group.	
ProvDissemination.StartDate	Date object began being disseminated within group.	
ProvDissemination.EndDate	Date object no longer disseminated within group.	
ProvDissemination.Note	Note on object dissemination within group.	
PDFFileList.PDFFileListID	Database generated, Primary Key	
PDFFileList.ProvDissemID	Foreign Key, ProvDissemination Table	
PDFFileList.FileName	Name of the file listing files disseminated in dissemination.	
PDFFileList.StartDate	Date the listed files were included in dissemination.	
PDFFileList.EndDate	Date the listed files were no longer in dissemination.	
PDFFileList.Note	Note about the list of files included within dissemination.	
Catalog.CatalogID	Database generated, Primary Key.	
Catalog.CatalogName	Name of the catalog where an object is registered: SEDAC, CIESIN, EDGRS, ESIP, DLESE, NSDL.	10. Finding and Searching Aids, and Access Facilitators
Catalog.URL	URL of the catalog where an object is registered.	
Catalog.ContactInfo	Contact information for a catalog where an object is registered.	

CatalogEntry.CatalogEntryID	Database generated, Primary Key.	
CatalogEntry.DisseminationID	Foreign Key, Dissemination Table.	
CatalogEntry.CatalogID	Foreign Key, Catalog Table.	
CatalogEntry.EntryID	Unique Identifier in the catalog for the record describing the object.	
CatalogEntry.Submission	Date description of entry was submitted to a catalog.	
CatalogEntry.StartDate	Date catalog entry was available.	
CatalogEntry.EndDate	Date catalog entry was no longer available.	
CatalogEntry.EntryStatus	Status of catalog entry: None, Partial, Complete, Removed.	
CatalogEntry.EntryDesc	Description of the dissemination included in the fields of the entry.	
CatalogEntry.EntryLastUpdate	Date of the last update to the catalog entry for the object.	
CatalogEntry.Note	Note about the catalog entry for an object.	
Location.LocationID	Database generated, Primary Key	
Location.LocType	Type of location. Onsite Offline Archive, Offsite Offline Archive, Onsite Processing, Onsite Network, Onsite Storage Shelves.	
Location.LocName	Name of the Location. CIESIN Archival Facility, GISS Computer Room, Geoscience Computer Room, Geoscience Storage Room.	
Location.LocDesc	Description of the archival facilities at the location.	
Location.LocAGENT	Name of the individual responsible for the location.	
LocationParam.LocationParamID	Database generated, Primary Key	
LocationParam.LocationID	Foreign Key, Location Table	
LocationParam.ParamName	Name of the parameter measured at the location: Temperature, High Temperature, Low Temperature, Humidity, High Humidity, Low Humidity, Inventory, Recovery Test.	
LocationParam.ParamValue	Value of the parameter measured at the location.	
LocationParam.ParamUnit	Unit of measurement for	

	recorded value measured at location: Degrees Fahrenheit, Percentage.	
LocationParam.ParamDate	Date and time of measurement.	
LocationParam.ParamNote	Note on instrument or parameter measured.	
Media.MediaID	Database generated, Primary Key	
Media.MediaType	Type of media used: CD-ROM, CD-R, DVD-R, DVD+R, Print.	8. Storage Information (Object)
Media.MediaBrand	Brand of the media: TDK 700 MB 48x Data CD-R.	
Media.MediaPurchaseDate	Date the media was purchased.	
Media.Note	Note about the media.	25. Other
Media_Location.LocationID	Database generated, Primary Key	
Media_Location.MediaID	Foreign Key, Media Table	
Media_Location.DepositedOn	Date the archival media was deposited at the location.	
Media_Location.RemovedOn	Date the archival media was removed from the location.	
Media_Location.Note	Note about the archival media housed at a location.	
Event.EventID	Database generated, Primary Key	
Event.MediaID	Foreign Key, Media Table	
Event.EventStatus	Status of the event: Complete, Scheduled, Postponed.	
Event.Designation	Name of the event: Deposit, Inventory, Audit, Inspection, Virus Check, Media Write, Quality Check, Format Conversion, Removal, Check Out, Bring Forward, Media Request, Media Destruction.	
Event.Procedure	Procedure completed on media during an event.	23. Process
Event.Location	Location where the event occurred.	
Event.EventDate	Date and time of event.	
Event.Outcome	Description of the event outcome.	
Event.Note	Note about the event.	
Event.ResponsiblePerson	Individual responsible for the event.	
Event.RetrievalRecipient	Individual who received the media.	
Event.RetrievalRequestor	Individual who requested the media.	
ProvenanceMedia.ProvenanceMediaID	Database generated,	

	Primary Key	
ProvenanceMedia.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceMedia.MediaID	Foreign Key, Media Table	
ProvenanceMedia.MediaCopy	Instance of object stored on media: Preservation Master, Security Master, Duplication Master, Access Service Copy.	21. Intention Type (Object)
ProvenanceMedia.RootPath	Path and directory of the object on the media.	
ProvenanceMedia.WriteDate	Date the object was written on the media.	
ProvenanceMedia.DeleteDate	Date the object was deleted from the media.	
ProvenanceMedia.ValidationProc	Signature type used to generate validation key: MD5, SHA-1.	12. Validation (Object)
ProvenanceMedia.KeyCreationDate	Date validation key was generated.	
ProvenanceMedia.Result	Hash value, filename, or path and filename of stored validation signature.	12. Validation (Object)
ProvenanceMedia.LastCheckDate	Date validation key generated and compared with original.	
ProvenanceMedia.NextCheckDate	Date scheduled for validation key comparison.	
DataFile.DataFileID	Database generated, Primary Key	1. Persistent Identifier (File)
DataFile.ProvenanceMediaID	Foreign Key, ProvenanceMedia Table	
DataFile.FileName	Name of the file including its extension.	
DataFile.FileSize	Size of the file in bytes.	8. Storage Information (File)
DataFile.ContentType	Type of content in the file: Data, Documentation, Permission, Startup.	
DataFile.MarkupType	Type of markup used to encode contents of file: HTML, SGML, XML.	
DataFile.MarkupName	Name of schema and version employed for the MarkupType: TEI DTD, W3C XML.	
DataFile.MarkupSchema	Contents of schema used for the Markup Type.	
DataFile.FileAccessRight	Access rights or limitations specific to file: Universal Access -unrestricted, Research Use Only, Educational Use Only, Research and Educational Use Only, Non-Commercial Use Only, On-Site Use Only, Signed Confidentiality Agreement Only, Staff Only, Staff Addresses Only, Licensees Only, Domestic IP Addresses Only, No	

	Online Access, No Access Allowed Pending Further Evaluation.	
DataFile.ExpofAccessRight	Date access rights or restrictions specific to file expire.	
DataFile.PreservRestrictn	Preservation rights or limitations for preserving file.	11. Preservation Action Permission
DataFile.EncryptionInfo	Description of encryption employed on file.	9. Access Inhibitors (File)
DataFile.AccessInhibitors	Inhibitors to access inherent to the file: Password protection, AAA watermark.	9. Access Inhibitors (File)
DataFile.FileType	MIME Media Type for file in format Content Type/Subtype: application/pdf, audio/mpeg, image/tiff, message/http, model/vrml, multipart/signed, text/html, video/mpeg.	3. File Description (File)
DataFile.FileVersion	Version of the MIME Media Type.	
DataFile.FileFormat	Software program used to create the file: Microsoft Word 2000, Microsoft Excel 2000.	7. Installation Requirements (File)
DataFile.FormatRegistry	Registry to identify the software program used to create or view the file: Pronom.	
DataFile.RegistryEntry	Entry in the Format Registry for the file format.	
DataFile.DateModified	Last date and time when file was written or modified.	2. Date (File)
DataFile.PreservFormat	File format is a preservation format: Y, N.	
DataFile.AltFormat	Alternate or derivative formats that contain contents of file: txt, csv, pdf.	
DataFile.OriginalFileID	Foreign key to DataFile.DataFileID. DataFileID for original file from which the file is a derivative.	
DataFile.OriginalFileName	Filename (and extension) for the original source file from which the file described is a derivative.	13. Relationships
DataFile.Creation	Description of the file creation, coded to record file history: Original file received, Migrated file, Archive generated file.	23. Process
DataFile.History	Description of file history, coded string to record file history: O = Original file received. M = Migrated file. A = Archive generated file. MMO = Migrated file from	

	Migrated file from Original file.	
DataFile.RefreshDate	Last date and time file was written to any media.	
DataFile.AccessStartDate	Date when access to file may be granted.	
DataFile.AccessEndDate	Date when access to file ends.	
DataFile.DeaccessionDate	Date when file was deaccessioned from archive.	
FilePart.FilePartID	Database generated, Primary Key	
FilePart.DataFileID	Foreign Key, DataFile Table	
FilePart.FilePartType	Type of FilePart: Table, Screenshot, Thumbnail Image, Page Image, Annotation, Mask, Metadata Text.	
FilePart.FilePartLoc	Location or address of FilePart within the file: Unknown.	
FilePart.FilePartDesc	Description of FilePart differentiated from file.	
Environment.EnvironmentID	Database generated, Primary Key	
Environment.DataFileID	Foreign Key, DataFile Table	
Environment.EnvironmentType	Type of environment required for data file: Rendering Software, Display Application, Operating System, Middleware, Hardware CPU, Hardware Peripherals.	6. Known System Requirements (File)
Environment.Title	Title of environment software or hardware required.	
Environment.Description	Description of implementation environment for data file.	14. Quirks
Environment.Documentation	Documentation for the implementation environment.	7. Installation Requirements
Environment.ExpiryDate	Date environment is scheduled to expire or be replaced.	
AccessRestriction.AccessRestrictionID	Database generated, Primary Key	
AccessRestriction.ProvenanceID	Foreign Key, Provenance Table	
AccessRestriction.AccessRestriction	Security category or type of restriction: Onsite Use Only - Confidential Data- No Copying, Permission from Project Director Required, Confidentiality Agreement Required - No Copying or	

	Network Access, Project Director only, Universal Access (unrestricted), Research Use Only, Educational Use Only, Research and Educational Use Only, Non-Commercial Use Only, On-Site Use Only, Signed Confidentiality Agreement Only, CU Personnel Only, CU Addresses Only, Domestic IP Addresses Only, No Online Access.	
AccessRestriction.AccessRestrictionDesc	Description of restriction on access to object.	
AccessRestriction.CurrentDeclaration	Confidentiality agreement or user agreement on restriction.	
AccessRestriction.SecurityNote	Note about the security restriction on object.	
AccessRestriction.SecurityReviewDate	Date security restriction is scheduled for review.	
AccessRestriction.ARStartDate	Date access restriction on object begins.	
AccessRestriction.AREndDate	Date access restriction on object ends.	
Decision.DecisionID	Database generated, Primary Key	
Decision.DecisionType	Type of Decision: Acquisition, Nomination for Dissemination, Nomination for Deaccession, Nomination for Transfer, Nomination for Accession, Dissemination, Disposition, Transfer, Provisional Use, Beta System Dissemination; Production System Dissemination.	
Decision.Decision	Decision about an object for a Decision Type. For Preservation Service: Preserve content, Preserve Original Formats; For SEDAC: Disseminate, Ancillary Product, Transfer to LTA; For SEDAC Acquisition: redistributed 3rd party data, value-added 3rd party data, SEDAC-developed; For LTA: Public Dissemination, Restricted Dissemination; (Others Considered: Under Review, Disseminate, Delete, Remove) The following 7 categories are not mutually exclusive: Delete; Retire; Long-Term Archive; Archive, But Not	18. Archiving Decision (Object Manifestation)

	Disseminate, SEDAC Disseminate by Type: - Subsets Only, - Web Download - Internet Mapping; Missing; Add to SDP; Consolidate.	
Decision.MeetingDate	Date when the decision was made.	
Decision.DecisionActiveDate	Date on which the decision is implemented.	
Decision.Authority	Authority deciding the status of an object within the archive: CIESIN Director, CIESIN Deputy Director, CIESIN Associate Director for IS, SEDAC UWG, SEDAC Project Manager, SEDAC Lead Project Scientist, SEDAC Archives Manager, SEDAC Archivist, LTA Board, LTA Manager, LTA Archivist.	20. Institution Responsible for Archiving Decision (Object Manifestation)
Decision.Note	Note of Rationale or Justification for making the decision.	19. Decision Reason (Object Manifestation)
ProvenanceDecision.ProvenanceDecisionID	Database generated, Primary Key	
ProvenanceDecision.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceDecision.DecisionID	Foreign Key, Decision Table	
ProvenanceDecision.Note	Note about the decision in reference to a specific provenance.	
RightOwner.RightOwnerID	Database generated, Primary Key	
RightOwner.Entity	Organization that owns right for an object or Public Domain.	
RightOwner.Signator	Person who signed document authorizing a right for an object.	
RightOwner.SignatorTitle	Title of signer authorizing a right for an object.	
RightOwner.SigContactInfo	Contact information for signer authorizing a right for an object.	
RightOwner.Address1	Line 1 of right owner address.	
RightOwner.Address2	Line 2 of right owner address.	
RightOwner.City	City of right owner.	
RightOwner.State	State of right owner.	
RightOwner.Country	Country of right owner.	
RightOwner.PostalCode	Postal code for right owner.	
RightOwner.Telephone	Telephone number for right owner.	
RightOwner.Fax	Fax number for right owner.	
RightOwner.Email	E-mail for right owner.	

RightOwner.Website	URL of right owner website.	
RightOwner.Note	Note about right owner.	
Right.RightID	Database generated, Primary Key	
Right.RightType	Type of right held: copyright, license, public domain, contract, Permission.	
Right.RightName	Distribution Right, Usage Right, Preservation Right, Access Right, Print Right.	
Right.RightDesc	Description of the right and intellectual property restrictions or obligations.	11. Preservation Action Permission
Right.Note	Note on rights for object.	
RightHeld.RightHeldID	Database generated, Primary Key	
RightHeld.RightOwnerID	Foreign Key, RightOwner Table	
RightHeld.ProvenanceID	Foreign Key, Provenance Table	
RightHeld.RightID	Foreign Key, Right Table	
RightHeld.RightOrigination	Right granted to others or received from owner: Granted, Received.	
RightHeld.CurDeclaration	Content of license, contract, or permission statement.	
RightHeld.RightDocFile	Filename and directory path of the digital (or scanned) document that authorizes rights for an object.	
RightHeld.RightDocLoc	Location of original printed license, contract, or permission document: Onsite Archive, Offsite Archive, Storeroom, Not Printed.	
RightHeld.BeginDate	Date of execution for rights held or date of contract if not specified.	
RightHeld.ExpiryDate	Date of expiration for rights held or null if no expiration date.	
RightHeld.Receiver	Person who signed document (or agreed to conditions) and is authorized to acquire or use object.	
RightHeld.Cost	Cost to acquire object or rights to object.	
RightHeld.CostUnit	Monetary unit for cost to acquire object or rights to object.	
RightHeld.Note	Note on right held for an object.	
RightHeld.RightBrief	Brief description of right held and intended usage group or purpose: Use and distribute freely, Use and	

	distribute only within organization, Distribute for research or educational purposes, Third party distribution, Research use only, Educational use only, Non-commercial use only, Staff use only.	
RightHeld.Request	Request for rights, including the reason to justify authorization.	

Crosswalk:**Data Model for Managing and Preserving Geospatial Electronic Records to National Library of New Zealand. Metadata Standards Framework, Preservation Metadata (Revised June 2003) Available Online:****http://www.natlib.govt.nz/files/4initiatives_metaschema_revised.pdf**

Object (1), Process (2), File (3), Metadata Modification (4)

Field	Definition	NLNZ PM Element
Collection.CollectionID	Database generated, Primary Key	
Collection.Title	Title for a Collection: CIESIN Archive, SEDAC Scientific Data Archives, specific project Archive.	
Collection.Description	Description of the collection and keywords.	
Collection.AccessReqmnt	Requirements for accessing the collection: Object Specific Requirements, CMB Approval, Systems Manager Approval.	
Collection.InstallReqmnt	Requirements for installation of collection	
Collection.SizeReqmnt	Storage volume requirement for collection, automatically calculated.	
Collection.AccessInhibitor	Method(s) employed to inhibit access to collection that could affect preservation, such as encryption or watermarking.	
Collection.FindingAid	Method used to facilitate discovery of collection.	
Collection.PresrvPermission	Statement of permission to copy collection or migrate to various formats for preservation.	
Collection.RelationDesc	Description of relationships, relevant for preservation, between collection and other objects or collections.	
Collection.Quirk	Characteristic that could degrade functionality or aspects of the collection.	
Collection.Purpose	Purpose and reason for archiving the collection: Funding Agency Requirement; Scientific Value; Historical value; Fiduciary responsibility.	
Collection.DecisionDate	Date of decision to archive the collection.	
Collection.AccessStartDate	Date access was provided to collection.	
Collection.AccessEndDate	Date when access to collection ended.	
Collection.DeaccessionDate	Date collection is deaccessioned by archive.	

Collection.Note	Notes about collection.	
Series.SeriesID	Database generated, Primary Key	
Series.CollectionID	Foreign Key, Collection Table	
Series.Title	Title of a record series category within a Collection: CIESIN Administrative Records, CIESIN Records Common to All Projects, CIESIN Scientific Data, SEDAC Operations Records, SEDAC Active Archive, SEDAC Long- Term Archive.	
Series.SeriesCode	Unique identifier for the record category: SEDAC Active Archive, SEDAC Long-Term Archive, CIESIN Archive, Series 100 CIESIN Records, Series 500 CIESIN Records, Series 600 SEDAC Operations Records, Series 700 SEDAC Active Archive, Series 800 Series Long- Term Archive.	
Series.Description	Description of the series.	
Series.VRIndicator	Category of vital records, if applicable, for the series: Non-Vital Records, Emergency - Operating Records, Legal or Financial Rights, Emergency and Rights Records.	
Series.VRReviewDate	Date of next review of vital records in series.	
Series.Activity	Level of use for series, assignment based on SeriesActivity.	
Series.ActivityDate	Date when activity for the series was reviewed and assigned.	
Series.CutoffDate	Date to cutoff records in series.	
Series.AnnualAccum	Estimate of annual accumulation of records in series.	
Series.AccessStartDate	Date when access to series began.	
Series.EndDate	Date when access to series ended.	
Series.DeaccessionDate	Date of deaccession for all records in series.	
Series.Note	Notes about the series.	
SeriesActivity.SeriesActivityID	Database generated, Primary Key	
SeriesActivity.SeriesID	Foreign Key, Series Table.	
SeriesActivity.PeriodStartDate	Date series activity period	

	began.	
SeriesActivity.PeriodEndDate	Date series activity period ended.	
SeriesActivity.UniqueUserCnt	Number of unique users of series during period.	
SeriesActivity.TotalUserCnt	Total number of users of series during period.	
SeriesActivity.Note	Notes about series activity for a given period.	
Aggregate.AggregateID	Database generated, Primary Key	1.4 Group Identifier
Aggregate.SeriesID	Foreign Key, Series Table	
Aggregate.Title	Title of Aggregate category assignment. For SEDAC Scientific Data Series mission areas: PLUE, ENTRI, EH, MVA, HVA, AFS, ES, EX, IG.	1.8 Is Part of Group
Aggregate.AccessStartDate	Date access to aggregate began.	
Aggregate.AccessEndDate	Date when access to aggregate ended.	
Aggregate.DeaccessionDate	Date of deaccession for all records in aggregate.	
Provenance.ProvenanceID	Database generated, Primary Key	1.3 Object Identifier
Provenance.AggregateID	Foreign Key, Aggregate Table	
Provenance.Origin	Description of the creation process of the object.	
Provenance.Title	Formal Title that identifies or describes the object.	1.1 Name of Object
Provenance.Version	Identification to differentiate object from other versions.	
Provenance.PreIngest	Description of pre-ingest processing and custody of object.	
Provenance.CreationDate	Date object was completed by Author.	
Provenance.SubmissionDate	Date object was submitted to the archive for ingest.	
Provenance.Citation	Complete citation for object.	
Provenance.DesignatedCommunity	Description of designated community of users, potential users, or audience for the object: Human interactions in the environment community, Decision-maker, Learner, Manager, Scientist, Teacher.	
Provenance.ReqdpPreservationService	Level of preservation service or preservation plan requested by submitter or data provider: Preserve Original Formats; Preserve Content in Supported Formats.	
Provenance.ReqdpDisseminatnService	Level of dissemination	

	service or dissemination plan requested by submitter or data provider: Restricted dissemination. Public Dissemination.	
Provenance.ReasonForCreation	Reason or purpose for creating the described object.	
Provenance.CustodyHistory	Chain of custody of object prior to ingest into archive.	
Provenance.ReasonForPreservation	Justification for selecting object for preservation in archive.	
Provenance.AcquisitionDate	Date original object was acquired by archive.	1.17 Date of Metadata Record Creation
Provenance.AcquisitionVolume	Volume of original object acquired by archive.	
Provenance.AcquisitionFileInventory	List of all files in original object acquired by archive.	1.7 Logical Composition
Provenance.ReceivedDate	Date object received by the Archivist.	
Provenance.DeaccessionDate	Date the object was deaccessioned from archive.	
Provenance.AIPVolume	Total Size of the Archival Information Package created by the archive to preserve the Content Information and Associated Material	
Provenance.ContentInformationSize	Size of Content Information of the Archival Information Package in Bytes.	
Provenance.AssociatedMaterialSize	Size of material associated with the Content Information of the AIP in Bytes.	
Provenance.Functionality	Description of any functional characteristics of the object.	
Provenance.AIPFileInventory	List of all filenames and sizes organized by the directory structure.	1.18 Structural Composition
Provenance.AIPDataDictionary	List of each filename in object with title of document or description for each file, including alternate formats.	
Provenance.AIP	All the files within their preservation structure, containing Content Information and Associated Information that has been transformed by the Archive for preservation (location in system if dbms is part of the repository).	
Provenance.AIPCreationDate	Date archive created Preservation Master for Archival Information Package.	1.6 Preservation Master Creation Date
Provenance.ReceivedSIP	All of the files (within their	

	original structure) received from the provider in the Submission Information Package (SIP) containing the Content Information and all Associated Information for the original object acquired (stored in system if dbms is part of the repository).	
Provenance.PreparedSIP	All of the files (within their preservation structure), containing the Content Information and the Associated Information that have been prepared by the Archive for submission to another Archive or Collection (stored in system if dbms is part of the repository).	
Provenance.VitalRecordIndicator	Vital Record status of object: Non-Vital Record, Emergency - Operating Record, Legal or Financial Rights Record, Emergency and Rights Record.	
Provenance.PermRecordIndicator	Indicator that the record is a Permanent Record: N, Y.	
Provenance.RecordCondition	Condition of record.	1.15 Quirks
Provenance.Description	Description of the intellectual content of the object.	
Provenance.Methodology	Instruments and techniques used to create the data.	
Provenance.Variable	Variables, layouts, and codes used to describe the data.	
Provenance.SpatialCoverageDesc	Political or geographical description of spatial coverage.	
Provenance.SpatialCoverageNote	Latitude and longitude covered, if available.	
Provenance.SpatialResolution	Spatial Resolution.	
Provenance.SpatialResolutionNote	Notes on the spatial resolution of the object.	
Provenance.SRS	Spatial Reference System used for spatial resolution.	
Provenance.BBoxMinX	Minimum X Coordinate (Longitude) for the Bounding Box.	
Provenance.BBoxMinY	Minimum Y Coordinate (Latitude) for the Bounding Box.	
Provenance.BBoxMaxX	Maximum X Coordinate (Longitude) for the Bounding Box.	
Provenance.BBoxMaxY	Maximum Y Coordinate (Latitude) for the Bounding Box.	
Provenance.SpatialCoverage	If database supports native	

	spatial data types, this field should be used to store actual shape of spatial coverage.	
Retention.RetentionID	Database generated, Primary Key	
Retention.ProvenanceID	Foreign Key, Provenance Table, if retention relates to provenance.	
Retention.SeriesID	Foreign Key, Series Table, if retention relates to series.	
Retention.Instruction	Instructions for retention or disposition of record or series: Review every Five Years, Retain Indefinitely, Freeze, Transfer to LTA, Retire, Destroy.	
Retention.InstructionReason	Justification for retention instructions on record or series.	
Retention.InstrctnDate	Date instructions were decided for record or series.	
Retention.InstrctnActDate	Date instructions are to be executed for record or series.	
Retention.ScheduleDate	Date record or series will be reviewed.	
Retention.Authority	Name of individual or group deciding on instructions for record or series: SEDAC UWG, LTA Board.	
TemporalData.TemporalDataID	Database generated, Primary Key	
TemporalData.ProvenanceID	Foreign Key, Provenance Table	
TemporalData.TCovPrecision	Precision of data used to describe temporal coverage: Year, Month, Day.	
TemporalData.TCovStart	Start date for data collection.	
TemporalData.TCovEnd	End date for data collection.	
TemporalData.TCovProjectionTo	Date of temporal coverage projection to a future date.	
TemporalData.TresDescription	Description of temporal resolution, time intervals between successive observations, frequency of granule production.	
Relationship.FromProvenanceID	Foreign Key, Provenance Table, part of Primary Key	
Relationship.ToProvenanceID	Foreign Key, Provenance Table, part of Primary Key	
Relationship.Relation	Part of Primary Key. Type of relationship: Subset, Superset, Derivative, Source, Extract, Version, Release, Edition, Integrates	

	Parts, Compliment.	
Relationship.RelationStartDate	Date relationship began.	
Relationship.RelationEndDate	Date relationship ended.	
Relationship.Note	Note about the relationship.	
Identification.IdentificationID	Database generated, Primary Key	
Identification.ProvenanceID	Foreign Key, Provenance Table	
Identification.IdentifierType	Type of identifier for which the object has been assigned a unique ID: Global Identifier, TDB ID, UMDB Rec #, DOI, ISBN.	
Identification.IdentifierAssigned	Unique Identifier assigned to an object for an identifier type.	1.2 Reference Number 1.5 Persistent Identifier
ProvReference.ProvReferenceID	Database generated, Primary Key	
ProvReference.ProvenanceID	Foreign Key, Provenance Table	
ProvReference.RefAuthor	Names of authors of reference work.	
ProvReference.RefAuthorRole	Role of authors of reference work (Eds.)	
ProvReference.RefTitle	Title of reference work.	
ProvReference.MonographAuthor	Author names of monograph containing reference work.	
ProvReference.MonographAuthRole	Role of authors of monograph containing reference work (Eds.)	
ProvReference.MonographTitle	Title of monograph containing reference work.	
ProvReference.JournalTitle	Title of journal containing reference work.	
ProvReference.TranslatedTitle	English translation of title if in another language.	
ProvReference.Edition	Edition identifier of monograph containing reference work.	
ProvReference.SubsidiaryAuthor	Names of subsidiary authors if author is an institution.	
ProvReference.PublicationPlace	Location where reference work is published.	
ProvReference.Publisher	Name of reference work publisher.	
ProvReference.PublicationDate	Date reference work was published.	
ProvReference.PublicationYear	Year when reference work was published.	
ProvReference.CopyrightDate	Date of copyright for reference work.	
ProvReference.VolumeID	Volume identifier of reference work.	
ProvReference.IssueID	Issue identifier of reference work.	
ProvReference.Page	Range of pages of reference work.	

ProvReference.WorkExtent	Total number of pages of reference work.	
ProvReference.PackagingMethod	Public accessibility of reference work.	
ProvReference.SeriesEditor	Editor of series containing reference work.	
ProvReference.SeriesEditorRole	Role of Editor for series containing reference work.	
ProvReference.SeriesTitle	Title of series containing reference work.	
ProvReference.SeriesVolumelD	Volume identifier for series containing reference work.	
ProvReference.SeriesIssueID	Issue identifier for series containing reference work.	
ProvReference.DocumentType	Type of reference work. Ex: Journal, Book, Proceedings	
ProvReference.URL	URL of text or full reference of reference work.	
ProvReference.Availability	File path or file cabinet if stored, or blank if not available.	
ProvReference.ISBN	ISBN number for reference work.	
ProvReference.Note	Note about reference work.	
ProvReference.RefAbstract	Abstract of reference work.	
ProvReference.CallNumber	Identifier in classification system (LOC, Dewey, or other).	
ProvReference.ReferenceType	Use of object by reference work. Ex: Report,	
ProvReference.RefCitation	Complete bibliographic reference for reference work.	
ProvReference.RefCitSource	Citation database or service listing reference and date found.	
ProvReference.RefUseRight	Right or permission to use reference work, citation, or abstract.	
ProvReference.RefAccessRight	Right/permission to access or link reference work, citation or abstract.	
ProvReference.DisplayOrder	Order in which reference work will appear in reference list.	
Property.PropertyID	Database generated, Primary Key	
Property.PropertyParentID	Foreign Key, Property Table	
Property.PropertyName	Name of the property describing an object: Ingest Status, Ingest Format Processing, Significant Property, DCMI Type, Document Type, Content Type, Subject, Language. For Ingest Status: Under Development by Creator, Being Prepared for Submission, Received by	1.9 Structural Type

	<p>Archivist, Content Review Pending, Content Under Review by Archivist, Content Review Complete, Description Pending, Description Under Review, Description Complete, DOI Assigned, Quality Review Pending, Quality Review Complete, Failed Content Quality Review. Rejected - Data Returned to Creator, Ingested, Destroyed; For Ingest Format Processing: All files Ingested in Supported Formats, Original Non-Supported Formats Only, Original formats and All Files Migrated to Supported Formats; For Significant Properties: Intellectual Content of Text, intellectual content of image; For DCMI Type: Collection, Dataset, Event, Image, Interactive Resource, Moving Image, Physical Object, Service, Software, Sound, Still Image; For Document Type (ISO 19115 Document Type): PresentationFormCode: documentDigital, documentHardcopy, imageDigital, imageHardcopy, mapDigital, mapHardcopy, modelDigital, modelHardcopy, profileDigital, profileHardcopy, tableDigital, tableHardcopy, videoDigital, videoHardcopy; Content Type: Data, Documentation, Permission; Subject thesaurus or controlled vocabulary; Language: English, Spanish.</p>	
Property.PropertyDesc	Description of a property.	
Property.PropertyStatus	Current status of the property: Valid, Not in Use.	
Provenance_Property.ProvenancePropertyID	Database generated, Primary Key	
Provenance_Property.ProvenanceID	Foreign Key, Provenance Table	
Provenance_Property.PropertyID	Foreign Key, Property Table	
Provenance_Property.PPStartDate	Date when property began	
Provenance_Property.PPEndDate	Date when property ended.	

Provenance_Property.Note	Note about property as it pertains to a particular provenance.	
ProvenanceNote.ProvenanceNoteID	Database generated, Primary Key	
ProvenanceNote.ProvenanceID	Foreign Key, Provenance Table	4.1 Object Identifier
ProvenanceNote.NoteText	Note about the provenance of an object.	1.19 Comments, 4.4 Field Modified, 4.5 Data Modified
ProvenanceNote.PostedBy	Person who posted the note about the provenance of an object.	4.2 Metadata Record Modifier
ProvenanceNote.PostedOn	Date the note was posted.	4.3 Date and Time
ProvenanceNote.NoteType	Type of provenance note: Accession, Maintenance, Disposition.	
OtherTitle.OtherTitleID	Database generated, Primary Key	
OtherTitle.ProvenanceID	Foreign Key, Provenance Table	
OtherTitle.TitleType	Alternate Title, Former Title	
OtherTitle.Title	Other title of an object.	
OtherTitle.Note	Note about the other title of an object.	
Person.PersonID	Database generated, Primary Key	
Person.ProvenanceID	Foreign Key, Provenance Table	
Person.PersonRole	Role of responsible person: Author, Contributor, Recipient, Internal Contact, Accessioner, Originating Organization Technical Contact, Originating Organization Program Contact, Environment Manager, Security Official.	1.16 Metadata Record Creator
Person.PersonOrder	Order in which person will appear in a Person Role list, if sorted.	
Person.FirstName	First name of person.	
Person.LastName	Last name of person.	
Person.Address1	Line 1 of person address.	
Person.Address2	Line 2 of person address.	
Person.City	City of person.	
Person.State	State of person.	
Person.Country	Country of person.	
Person.PostalCode	Postal code address for person.	
Person.Phone	Telephone number for person.	
Person.Fax	Fax number for person.	
Person.Email1	Primary e-mail address for person.	
Person.Email2	Second e-mail address for person.	
Person.Note	Note about person.	

Institution.InstitutionID	Database generated, Primary Key	
Institution.ProvenanceID	Foreign Key, Provenance Table	
Institution.InstitutionRole	Role of institution for object. Originating Organization, Program Support.	
Institution.InstitutionOrder	Order in which the institution will appear on an institution role list If higher priority has been assigned.	
Institution.InstitutionName	Name of institution.	
Institution.Address1	Line 1 of institution address.	
Institution.Address2	Line 2 of institution address.	
Institution.City	City of institution.	
Institution.State	State of institution.	
Institution.Country	Country of institution.	
Institution.PostalCode	Postal code for institution address.	
Institution.Phone	Telephone number for institution.	
Institution.Fax	Fax number for institution.	
Institution.Website	Website URL for institution.	
Institution.Note	Note about institution.	
Document.DocumentID	Database generated, Primary Key	
Document.ProvenanceID	Foreign Key, Provenance Table	
Document.DocumentType	Type of document describing the object: User Manual, User Guide, Variable List, Codebook, Data Layout, Parameter List, User Notes, File Inventory, Installation Instructions, Splash Page.	1.12 Installation Requirements 1.14 Access Facilitators
Document.Title	Title of document describing the object.	
Document.ArchivalID	Identifier of the document if recorded as a provenance.	
Document.AccessPoint	URL of access point that disseminates document (http://...; ftp://...).	
Document.FileName	Filename of the document.	
Document.Scheme	Encoding scheme for the document. MARC, EAD, VRA, DC, NISOIMG, LC- AV, TEIHDR (Text Encoding Initiative Header), DDI, FGDC-STD-001-1998, FGDC CSGDM, DIF, ISO 19115, NY State Clearinghouse, Metalite, IEEE LOM, ESRI, Unknown.	
Document.Language	Language in which the document is written: English, Spanish.	
Document.AdditionalInfo	Additional information about	

	the document.	
Distributor.DistributorID	Database generated, Primary Key	
Distributor.DistributorName	Name of the service that distributes a dissemination of an object: CIESIN, Columbia Earth Institute, SEDAC, SEDAC LTA.	
Distributor.Address1	Line 1 of distributor address.	
Distributor.Address2	Line 2 of distributor address.	
Distributor.City	City of distributor.	
Distributor.State	State of distributor.	
Distributor.PostalCode	Postal Code of distributor.	
Distributor.Country	Country of distributor.	
Distributor.TelePhone	Telephone number of distributor.	
Distributor.Fax	Fax number of distributor.	
Distributor.URL	URL of distributor.	
Distributor.Email	Email address of distributor.	
Distributor.Website	Website of distributor.	
Dissemination.DisseminationID	Database generated, Primary Key	
Dissemination.DistributorID	Foreign Key, Distributor Table	
Dissemination.Medium	Primary data storage medium for distributing object from dissemination service: CD-ROM, DVD, URN, URL, FTP.	
Dissemination.PublicAccessPoint	Primary Access Point for distributing object to the public from dissemination service (http://... ; ftp://...).	
Dissemination.InternalLocation	Path and folder name of location from which object is distributed from internal dissemination service.	
Dissemination.DissemSize	Size of object disseminated in Bytes	
Dissemination.StartDate	Date dissemination service began disseminating object.	
Dissemination.EndDate	Date dissemination service discontinued disseminating object.	
Dissemination.DIPDescription	File Inventory of all files included in the Dissemination Information Package (DIP) submitted to dissemination service for distribution.	
Dissemination.DissemCharge	Amount received from dissemination service for distributing object.	
Dissemination.DissemChargeUnit	Monetary unit of DisseminationCharge.	
Dissemination.OriginalPublisher	Flag indicating that dissemination is by Original	

	Publisher: N, Y.	
Dissemination.PrimaryDistributor	Flag indicating that dissemination is by Primary Distributor: N. Y.	
DissemAltPoint.DissemAltPointID	Database generated, Primary Key	
DissemAltPoint.DisseminationID	Foreign Key, Dissemination Table	
DissemAltPoint.AltAccessPoint	Alternate access point disseminating object (http://...; ftp://...).	
DissemAltPoint.StartDate	Date started disseminating object at alternate access point.	
DissemAltPoint.EndDate	Date stopped disseminating object at alternate access point..	
DissemAltPoint.Note	Note on alternate dissemination point.	
ProvDissemination.ProvDisseminationID	Database generated, Primary Key	
ProvDissemination.DisseminationID	Foreign Key, Dissemination Table, part of Alternate Key	
ProvDissemination.ProvenanceID	Foreign Key, Provenance Table, part of Alternate Key	
ProvDissemination.RootPath	Directory path where object is disseminated within group.	
ProvDissemination.StartDate	Date object began being disseminated within group.	
ProvDissemination.EndDate	Date object no longer disseminated within group.	
ProvDissemination.Note	Note on object dissemination within group.	
PDFFileList.PDFFileListID	Database generated, Primary Key	
PDFFileList.ProvDissemID	Foreign Key, ProvDissemination Table	
PDFFileList.FileName	Name of the file listing files disseminated in dissemination.	
PDFFileList.StartDate	Date the listed files were included in dissemination.	
PDFFileList.EndDate	Date the listed files were no longer in dissemination.	
PDFFileList.Note	Note about the list of files included within dissemination.	
Catalog.CatalogID	Database generated, Primary Key.	
Catalog.CatalogName	Name of the catalog where an object is registered: SEDAC, CIESIN, EDGRS, ESIP, DLESE, NSDL.	
Catalog.URL	URL of the catalog where an object is registered.	
Catalog.ContactInfo	Contact information for a	

	catalog where an object is registered.	
CatalogEntry.CatalogEntryID	Database generated, Primary Key.	
CatalogEntry.DisseminationID	Foreign Key, Dissemination Table.	
CatalogEntry.CatalogID	Foreign Key, Catalog Table.	
CatalogEntry.EntryID	Unique Identifier in the catalog for the record describing the object.	
CatalogEntry.Submission	Date description of entry was submitted to a catalog.	
CatalogEntry.StartDate	Date catalog entry was available.	
CatalogEntry.EndDate	Date catalog entry was no longer available.	
CatalogEntry.EntryStatus	Status of catalog entry: None, Partial, Complete, Removed.	
CatalogEntry.EntryDesc	Description of the dissemination included in the fields of the entry.	
CatalogEntry.EntryLastUpdate	Date of the last update to the catalog entry for the object.	
CatalogEntry.Note	Note about the catalog entry for an object.	
Location.LocationID	Database generated, Primary Key	
Location.LocType	Type of location. Onsite Offline Archive, Offsite Offline Archive, Onsite Processing, Onsite Network, Onsite Storage Shelves.	
Location.LocName	Name of the Location. CIESIN Archival Facility, GISS Computer Room, Geoscience Computer Room, Geoscience Storage Room.	
Location.LocDesc	Description of the archival facilities at the location.	
Location.LocAGENT	Name of the individual responsible for the location.	
LocationParam.LocationParamID	Database generated, Primary Key	
LocationParam.LocationID	Foreign Key, Location Table	
LocationParam.ParamName	Name of the parameter measured at the location: Temperature, High Temperature, Low Temperature, Humidity, High Humidity, Low Humidity, Inventory, Recovery Test.	
LocationParam.ParamValue	Value of the parameter	

	measured at the location.	
LocationParam.ParamUnit	Unit of measurement for recorded value measured at location: Degrees Fahrenheit, Percentage.	
LocationParam.ParamDate	Date and time of measurement.	
LocationParam.ParamNote	Note on instrument or parameter measured.	
Media.MediaID	Database generated, Primary Key	
Media.MediaType	Type of media used: CD-ROM, CD-R, DVD-R, DVD+R, Print.	
Media.MediaBrand	Brand of the media: TDK 700 MB 48x Data CD-R.	
Media.MediaPurchaseDate	Date the media was purchased.	
Media.Note	Note about the media.	
Media_Location.LocationID	Database generated, Primary Key	
Media_Location.MediaID	Foreign Key, Media Table	
Media_Location.DepositedOn	Date the archival media was deposited at the location.	
Media_Location.RemovedOn	Date the archival media was removed from the location.	
Media_Location.Note	Note about the archival media housed at a location.	
Event.EventID	Database generated, Primary Key	
Event.MediaID	Foreign Key, Media Table	2.1 Object Identifier
Event.EventStatus	Status of the event: Complete, Scheduled, Postponed.	2.10 Result
Event.Designation	Name of the event: Deposit, Inventory, Audit, Inspection, Virus Check, Media Write, Quality Check, Format Conversion, Removal, Check Out, Bring Forward, Media Request, Media Destruction.	2.3 Purpose
Event.Procedure	Procedure completed on media during an event.	2.9 Steps 2.7 Hardware Used 2.8 Software Used 2.11 Guidelines
Event.Location	Location where the event occurred.	
Event.EventDate	Date and time of event.	2.12 Completion Date and Time
Event.Outcome	Description of the event outcome.	2.2 Description of Process Carried Out
Event.Note	Note about the event.	2.13 Comments
Event.ResponsiblePerson	Individual responsible for the event.	2.4 Person or Agency Performing Process
Event.RetrievalRecipient	Individual who received the	

	media.	
Event.RetrievalRequestor	Individual who requested the media.	
ProvenanceMedia.ProvenanceMediaID	Database generated, Primary Key	
ProvenanceMedia.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceMedia.MediaID	Foreign Key, Media Table	
ProvenanceMedia.MediaCopy	Instance of object stored on media: Preservation Master, Security Master, Duplication Master, Access Service Copy.	
ProvenanceMedia.RootPath	Path and directory of the object on the media.	3.3 File Path
ProvenanceMedia.WriteDate	Date the object was written on the media.	
ProvenanceMedia.DeleteDate	Date the object was deleted from the media.	
ProvenanceMedia.ValidationProc	Signature type used to generate validation key: MD5, SHA-1.	
ProvenanceMedia.KeyCreationDate	Date validation key was generated.	
ProvenanceMedia.Result	Hash value, filename, or path and filename of stored validation signature.	
ProvenanceMedia.LastCheckDate	Date validation key generated and compared with original.	
ProvenanceMedia.NextCheckDate	Date scheduled for validation key comparison.	
DataFile.DataFileID	Database generated, Primary Key	3.2 File Identifier
DataFile.ProvenanceMediaID	Foreign Key, ProvenanceMedia Table	3.1 Object Identifier
DataFile.FileName	Name of the file including its extension.	3.4 File Name and Extension
DataFile.FileSize	Size of the file in bytes.	3.6 File Size
DataFile.ContentType	Type of content in the file: Data, Documentation, Permission, Startup.	3.11 Target Indicator
DataFile.MarkupType	Type of markup used to encode contents of file: HTML, SGML, XML.	3.15.2 Markup Language
DataFile.MarkupName	Name of schema and version employed for the MarkupType: TEI DTD, W3C XML.	
DataFile.MarkupSchema	Contents of schema used for the Markup Type.	
DataFile.FileAccessRight	Access rights or limitations specific to file: Universal Access -unrestricted, Research Use Only, Educational Use Only, Research and Educational Use Only, Non-Commercial Use Only, On-Site Use	

	Only, Signed Confidentiality Agreement Only, Staff Only, Staff Addresses Only, Licensees Only, Domestic IP Addresses Only, No Online Access, No Access Allowed Pending Further Evaluation.	
DataFile.ExpofAccessRight	Date access rights or restrictions specific to file expire.	
DataFile.PreservRestrictn	Preservation rights or limitations for preserving file.	
DataFile.EncryptionInfo	Description of encryption employed on file.	
DataFile.AccessInhibitors	Inhibitors to access inherent to the file: Password protection, AAA watermark.	1.13 Access Inhibitors
DataFile.FileType	MIME Media Type for file in format Content Type/Subtype: application/pdf, audio/mpeg, image/tiff, message/http, model/vrml, multipart/signed, text/html, video/mpeg.	3.8 MIME Type
DataFile.FileVersion	Version of the MIME Media Type.	
DataFile.FileFormat	Software program used to create the file: Microsoft Word 2000, Microsoft Excel 2000.	3.9 File Format 3.10 File Format Version
DataFile.FormatRegistry	Registry to identify the software program used to create or view the file: Pronom.	
DataFile.RegistryEntry	Entry in the Format Registry for the file format.	
DataFile.DateModified	Last date and time when file was written or modified.	3.7 File Date and Time
DataFile.PreservFormat	File format is a preservation format: Y, N.	
DataFile.AltFormat	Alternate or derivative formats that contain contents of file: txt, csv, pdf.	
DataFile.OriginalFileID	Foreign key to DataFile.DataFileID. DataFileID for original file from which the file is a derivative.	
DataFile.OriginalFileName	Filename (and extension) for the original source file from which the file described is a derivative.	3.5 Former File Name
DataFile.Creation	Description of the file creation, coded to record file history: Original file received, Migrated file, Archive generated file.	
DataFile.History	Description of file history,	

	coded string to record file history: O = Original file received. M = Migrated file. A = Archive generated file. MMO = Migrated file from Migrated file from Original file.	
DataFile.RefreshDate	Last date and time file was written to any media.	
DataFile.AccessStartDate	Date when access to file may be granted.	
DataFile.AccessEndDate	Date when access to file ends.	
DataFile.DeaccessionDate	Date when file was deaccessioned from archive.	
FilePart.FilePartID	Database generated, Primary Key	
FilePart.DataFileID	Foreign Key, DataFile Table	
FilePart.FilePartType	Type of FilePart: Table, Screenshot, Thumbnail Image, Page Image, Annotation, Mask, Metadata Text.	
FilePart.FilePartLoc	Location or address of FilePart within the file: Unknown.	
FilePart.FilePartDesc	Description of FilePart differentiated from file.	
Environment.EnvironmentID	Database generated, Primary Key	
Environment.DataFileID	Foreign Key, DataFile Table	
Environment.EnvironmentType	Type of environment required for data file: Rendering Software, Display Application, Operating System, Middleware, Hardware CPU, Hardware Peripherals.	
Environment.Title	Title of environment software or hardware required.	
Environment.Description	Description of implementation environment for data file.	1.10 Hardware Environment 1.11 Software Environment
Environment.Documentation	Documentation for the implementation environment.	
Environment.ExpiryDate	Date environment is scheduled to expire or be replaced.	
AccessRestriction.AccessRestrictionID	Database generated, Primary Key	
AccessRestriction.ProvenanceID	Foreign Key, Provenance Table	
AccessRestriction.AccessRestriction	Security category or type of restriction: Onsite Use Only	

	- Confidential Data- No Copying, Permission from Project Director Required, Confidentiality Agreement Required - No Copying or Network Access, Project Director only, Universal Access (unrestricted), Research Use Only, Educational Use Only, Research and Educational Use Only, Non-Commercial Use Only, On-Site Use Only, Signed Confidentiality Agreement Only, CU Personnel Only, CU Addresses Only, Domestic IP Addresses Only, No Online Access.	
AccessRestriction.AccessRestrictionDesc	Description of restriction on access to object.	
AccessRestriction.CurrentDeclaration	Confidentiality agreement or user agreement on restriction.	
AccessRestriction.SecurityNote	Note about the security restriction on object.	
AccessRestriction.SecurityReviewDate	Date security restriction is scheduled for review.	
AccessRestriction.ARStartDate	Date access restriction on object begins.	
AccessRestriction.AREndDate	Date access restriction on object ends.	
Decision.DecisionID	Database generated, Primary Key	
Decision.DecisionType	Type of Decision: Acquisition, Nomination for Dissemination, Nomination for Deaccession, Nomination for Transfer, Nomination for Accession, Dissemination, Disposition, Transfer, Provisional Use, Beta System Dissemination; Production System Dissemination.	
Decision.Decision	Decision about an object for a Decision Type. For Preservation Service: Preserve content, Preserve Original Formats; For SEDAC: Disseminate, Ancillary Product, Transfer to LTA; For SEDAC Acquisition: redistributed 3rd party data, value-added 3rd party data, SEDAC-developed; For LTA: Public Dissemination, Restricted Dissemination; (Others Considered: Under Review, Disseminate, Delete,	

	Remove) The following 7 categories are not mutually exclusive: Delete; Retire; Long-Term Archive; Archive, But Not Disseminate, SEDAC Disseminate by Type: - Subsets Only, - Web Download - Internet Mapping; Missing; Add to SDP; Consolidate.	
Decision.MeetingDate	Date when the decision was made.	2.6 Permission Date
Decision.DecisionActiveDate	Date on which the decision is implemented.	
Decision.Authority	Authority deciding the status of an object within the archive: CIESIN Director, CIESIN Deputy Director, CIESIN Associate Director for IS, SEDAC UWG, SEDAC Project Manager, SEDAC Lead Project Scientist, SEDAC Archives Manager, SEDAC Archivist, LTA Board, LTA Manager, LTA Archivist.	Element 2.5 Permission
Decision.Note	Note of Rationale or Justification for making the decision.	
ProvenanceDecision.ProvenanceDecisionID	Database generated, Primary Key	
ProvenanceDecision.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceDecision.DecisionID	Foreign Key, Decision Table	
ProvenanceDecision.Note	Note about the decision in reference to a specific provenance.	
RightOwner.RightOwnerID	Database generated, Primary Key	
RightOwner.Entity	Organization that owns right for an object or Public Domain.	
RightOwner.Signator	Person who signed document authorizing a right for an object.	
RightOwner.SignatorTitle	Title of signer authorizing a right for an object.	
RightOwner.SigContactInfo	Contact information for signer authorizing a right for an object.	
RightOwner.Address1	Line 1 of right owner address.	
RightOwner.Address2	Line 2 of right owner address.	
RightOwner.City	City of right owner.	
RightOwner.State	State of right owner.	
RightOwner.Country	Country of right owner.	

RightOwner.PostalCode	Postal code for right owner.	
RightOwner.Telephone	Telephone number for right owner.	
RightOwner.Fax	Fax number for right owner.	
RightOwner.Email	E-mail for right owner.	
RightOwner.Website	URL of right owner website.	
RightOwner.Note	Note about right owner.	
Right.RightID	Database generated, Primary Key	
Right.RightType	Type of right held: copyright, license, public domain, contract, Permission.	
Right.RightName	Distribution Right, Usage Right, Preservation Right, Access Right, Print Right.	
Right.RightDesc	Description of the right and intellectual property restrictions or obligations.	
Right.Note	Note on rights for object.	
RightHeld.RightHeldID	Database generated, Primary Key	
RightHeld.RightOwnerID	Foreign Key, RightOwner Table	
RightHeld.ProvenanceID	Foreign Key, Provenance Table	
RightHeld.RightID	Foreign Key, Right Table	
RightHeld.RightOrigination	Right granted to others or received from owner: Granted, Received.	
RightHeld.CurDeclaration	Content of license, contract, or permission statement.	
RightHeld.RightDocFile	Filename and directory path of the digital (or scanned) document that authorizes rights for an object.	
RightHeld.RightDocLoc	Location of original printed license, contract, or permission document: Onsite Archive, Offsite Archive, Storeroom, Not Printed.	
RightHeld.BeginDate	Date of execution for rights held or date of contract if not specified.	
RightHeld.ExpiryDate	Date of expiration for rights held or null if no expiration date.	
RightHeld.Receiver	Person who signed document (or agreed to conditions) and is authorized to acquire or use object.	
RightHeld.Cost	Cost to acquire object or rights to object.	
RightHeld.CostUnit	Monetary unit for cost to acquire object or rights to object.	
RightHeld.Note	Note on right held for an	

	object.	
RightHeld.RightBrief	Brief description of right held and intended usage group or purpose: Use and distribute freely, Use and distribute only within organization, Distribute for research or educational purposes, Third party distribution, Research use only, Educational use only, Non-commercial use only, Staff use only.	
RightHeld.Request	Request for rights, including the reason to justify authorization.	

Crosswalk:

Data Model for Managing and Preserving Geospatial Electronic Records to Data Dictionary for Preservation Metadata: Final Report of the PREMIS Working Group. (May 2005). Online Computer Library Center (OCLC) and Research Libraries Group (RLG). <http://www.oclc.org/research/projects/pmwg/premis-final.pdf>

Field	Definition	PREMIS Data Dictionary
Collection.CollectionID	Database generated, Primary Key	
Collection.Title	Title for a Collection: CIESIN Archive, SEDAC Scientific Data Archives, specific project Archive.	
Collection.Description	Description of the collection and keywords.	
Collection.AccessReqmnt	Requirements for accessing the collection: Object Specific Requirements, CMB Approval, Systems Manager Approval.	
Collection.InstallReqmnt	Requirements for installation of collection	
Collection.SizeReqmnt	Storage volume requirement for collection, automatically calculated.	
Collection.AccessInhibitor	Method(s) employed to inhibit access to collection that could affect preservation, such as encryption or watermarking.	
Collection.FindingAid	Method used to facilitate discovery of collection.	
Collection.PresrvPermission	Statement of permission to copy collection or migrate to various formats for preservation.	
Collection.RelationDesc	Description of relationships, relevant for preservation, between collection and other objects or collections.	
Collection.Quirk	Characteristic that could degrade functionality or aspects of the collection.	
Collection.Purpose	Purpose and reason for archiving the collection: Funding Agency Requirement; Scientific Value; Historical value; Fiduciary responsibility.	
Collection.DecisionDate	Date of decision to archive the collection.	
Collection.AccessStartDate	Date access was provided to collection.	
Collection.AccessEndDate	Date when access to collection ended.	
Collection.DeaccessionDate	Date collection is deaccessioned by archive.	
Collection.Note	Notes about collection.	

Series.SeriesID	Database generated, Primary Key	LinkingIntellectualEntityIdentifierValue
Series.CollectionID	Foreign Key, Collection Table	LinkingIntellectualEntityIdentifierType
Series.Title	Title of a record series category within a Collection: CIESIN Administrative Records, CIESIN Records Common to All Projects, CIESIN Scientific Data, SEDAC Operations Records, SEDAC Active Archive, SEDAC Long- Term Archive.	
Series.SeriesCode	Unique identifier for the record category: SEDAC Active Archive, SEDAC Long-Term Archive, CIESIN Archive, Series 100 CIESIN Records, Series 500 CIESIN Records, Series 600 SEDAC Operations Records, Series 700 SEDAC Active Archive, Series 800 Series Long- Term Archive.	
Series.Description	Description of the series.	
Series.VRIndicator	Category of vital records, if applicable, for the series: Non-Vital Records, Emergency - Operating Records, Legal or Financial Rights, Emergency and Rights Records.	
Series.VRReviewDate	Date of next review of vital records in series.	
Series.Activity	Level of use for series, assignment based on SeriesActivity.	
Series.ActivityDate	Date when activity for the series was reviewed and assigned.	
Series.CutoffDate	Date to cutoff records in series.	
Series.AnnualAccum	Estimate of annual accumulation of records in series.	
Series.AccessStartDate	Date when access to series began.	
Series.EndDate	Date when access to series ended.	
Series.DeaccessionDate	Date of deaccession for all records in series.	
Series.Note	Notes about the series.	
SeriesActivity.SeriesActivityID	Database generated, Primary Key	
SeriesActivity.SeriesID	Foreign Key, Series Table.	
SeriesActivity.PeriodStartDate	Date series activity period began.	
SeriesActivity.PeriodEndDate	Date series activity period	

	ended.	
SeriesActivity.UniqueUserCnt	Number of unique users of series during period.	
SeriesActivity.TotalUserCnt	Total number of users of series during period.	
SeriesActivity.Note	Notes about series activity for a given period.	
Aggregate.AggregateID	Database generated, Primary Key	
Aggregate.SeriesID	Foreign Key, Series Table	
Aggregate.Title	Title of Aggregate category assignment. For SEDAC Scientific Data Series mission areas: PLUE, ENTRI, EH, MVA, HVA, AFS, ES, EX, IG.	
Aggregate.AccessStartDate	Date access to aggregate began.	
Aggregate.AccessEndDate	Date when access to aggregate ended.	
Aggregate.DeaccessionDate	Date of deaccession for all records in aggregate.	
Provenance.ProvenanceID	Database generated, Primary Key	ObjectCategory
Provenance.AggregateID	Foreign Key, Aggregate Table	
Provenance.Origin	Description of the creation process of the object.	
Provenance.Title	Formal Title that identifies or describes the object.	
Provenance.Version	Identification to differentiate object from other versions.	
Provenance.PreIngest	Description of pre-ingest processing and custody of object.	
Provenance.CreationDate	Date object was completed by Author.	
Provenance.SubmissionDate	Date object was submitted to the archive for ingest.	
Provenance.Citation	Complete citation for object.	
Provenance.DesignatedCommunity	Description of designated community of users, potential users, or audience for the object: Human interactions in the environment community, Decision-maker, Learner, Manager, Scientist, Teacher.	
Provenance.ReqdpreservationService	Level of preservation service or preservation plan requested by submitter or data provider: Preserve Original Formats; Preserve Content in Supported Formats.	
Provenance.ReqddissemnatnService	Level of dissemination service or dissemination plan requested by submitter	

	or data provider: Restricted dissemination. Public Dissemination.	
Provenance.ReasonForCreation	Reason or purpose for creating the described object.	
Provenance.CustodyHistory	Chain of custody of object prior to ingest into archive.	
Provenance.ReasonForPreservation	Justification for selecting object for preservation in archive.	
Provenance.AcquisitionDate	Date original object was acquired by archive.	
Provenance.AcquisitionVolume	Volume of original object acquired by archive.	Size
Provenance.AcquisitionFileInventory	List of all files in original object acquired by archive.	
Provenance.ReceivedDate	Date object received by the Archivist.	
Provenance.DeaccessionDate	Date the object was deaccessioned from archive.	
Provenance.AIPVolume	Total Size of the Archival Information Package created by the archive to preserve the Content Information and Associated Material	
Provenance.ContentInformationSize	Size of Content Information of the Archival Information Package in Bytes.	
Provenance.AssociatedMaterialSize	Size of material associated with the Content Information of the AIP in Bytes.	
Provenance.Functionality	Description of any functional characteristics of the object.	
Provenance.AIPFileInventory	List of all filenames and sizes organized by the directory structure.	ObjectCharacteristics
Provenance.AIPDataDictionary	List of each filename in object with title of document or description for each file, including alternate formats.	CompositionLevel
Provenance.AIP	All the files within their preservation structure, containing Content Information and Associated Information that has been transformed by the Archive for preservation (location in system if dbms is part of the repository).	
Provenance.AIPCreationDate	Date archive created Preservation Master for Archival Information Package.	
Provenance.ReceivedSIP	All of the files (within their original structure) received from the provider in the	

	Submission Information Package (SIP) containing the Content Information and all Associated Information for the original object acquired (stored in system if dbms is part of the repository).	
Provenance.PreparedSIP	All of the files (within their preservation structure), containing the Content Information and the Associated Information that have been prepared by the Archive for submission to another Archive or Collection (stored in system if dbms is part of the repository).	
Provenance.VitalRecordIndicator	Vital Record status of object: Non-Vital Record, Emergency - Operating Record, Legal or Financial Rights Record, Emergency and Rights Record.	
Provenance.PermRecordIndicator	Indicator that the record is a Permanent Record: N, Y.	
Provenance.RecordCondition	Condition of record.	
Provenance.Description	Description of the intellectual content of the object.	
Provenance.Methodology	Instruments and techniques used to create the data.	
Provenance.Variable	Variables, layouts, and codes used to describe the data.	
Provenance.SpatialCoverageDesc	Political or geographical description of spatial coverage.	
Provenance.SpatialCoverageNote	Latitude and longitude covered, if available.	
Provenance.SpatialResolution	Spatial Resolution.	
Provenance.SpatialResolutionNote	Notes on the spatial resolution of the object.	
Provenance.SRS	Spatial Reference System used for spatial resolution.	
Provenance.BBoxMinX	Minimum X Coordinate (Longitude) for the Bounding Box.	
Provenance.BBoxMinY	Minimum Y Coordinate (Latitude) for the Bounding Box.	
Provenance.BBoxMaxX	Maximum X Coordinate (Longitude) for the Bounding Box.	
Provenance.BBoxMaxY	Maximum Y Coordinate (Latitude) for the Bounding Box.	
Provenance.SpatialCoverage	If database supports native spatial data types, this field should be used to store	

	actual shape of spatial coverage.	
Retention.RetentionID	Database generated, Primary Key	
Retention.ProvenanceID	Foreign Key, Provenance Table, if retention relates to provenance.	
Retention.SeriesID	Foreign Key, Series Table, if retention relates to series.	
Retention.Instruction	Instructions for retention or disposition of record or series: Review every Five Years, Retain Indefinitely, Freeze, Transfer to LTA, Retire, Destroy.	
Retention.InstructionReason	Justification for retention instructions on record or series.	
Retention.InstrctnDate	Date instructions were decided for record or series.	
Retention.InstrctnActDate	Date instructions are to be executed for record or series.	
Retention.ScheduleDate	Date record or series will be reviewed.	
Retention.Authority	Name of individual or group deciding on instructions for record or series: SEDAC UWG, LTA Board.	
TemporalData.TemporalDataID	Database generated, Primary Key	
TemporalData.ProvenanceID	Foreign Key, Provenance Table	
TemporalData.TCovPrecision	Precision of data used to describe temporal coverage: Year, Month, Day.	
TemporalData.TCovStart	Start date for data collection.	
TemporalData.TCovEnd	End date for data collection.	
TemporalData.TCovProjectionTo	Date of temporal coverage projection to a future date.	
TemporalData.TresDescription	Description of temporal resolution, time intervals between successive observations, frequency of granule production.	
Relationship.FromProvenanceID	Foreign Key, Provenance Table, part of Primary Key	Relationship RelatedObjectIdentification
Relationship.ToProvenanceID	Foreign Key, Provenance Table, part of Primary Key	RelatedObjectIdentifierValue
Relationship.Relation	Part of Primary Key. Type of relationship: Subset, Superset, Derivative, Source, Extract, Version, Release, Edition, Integrates Parts, Compliment.	RelationshipType
Relationship.RelationStartDate	Date relationship began.	

Relationship.RelationEndDate	Date relationship ended.	
Relationship.Note	Note about the relationship.	RelationshipSubType
Identification.IdentificationID	Database generated, Primary Key	
Identification.ProvenanceID	Foreign Key, Provenance Table	ObjectIdentifier
Identification.IdentifierType	Type of identifier for which the object has been assigned a unique ID: Global Identifier, TDB ID, UMDB Rec #, DOI, ISBN.	ObjectIdentifierType
Identification.IdentifierAssigned	Unique Identifier assigned to an object for an identifier type.	ObjectIdentifierValue
ProvReference.ProvReferenceID	Database generated, Primary Key	RelatedObjectIdentification Type
ProvReference.ProvenanceID	Foreign Key, Provenance Table	
ProvReference.RefAuthor	Names of authors of reference work.	
ProvReference.RefAuthorRole	Role of authors of reference work (Eds.)	
ProvReference.RefTitle	Title of reference work.	
ProvReference.MonographAuthor	Author names of monograph containing reference work.	
ProvReference.MonographAuthRole	Role of authors of monograph containing reference work (Eds.)	
ProvReference.MonographTitle	Title of monograph containing reference work.	
ProvReference.JournalTitle	Title of journal containing reference work.	
ProvReference.TranslatedTitle	English translation of title if in another language.	
ProvReference.Edition	Edition identifier of monograph containing reference work.	
ProvReference.SubsidiaryAuthor	Names of subsidiary authors if author is an institution.	
ProvReference.PublicationPlace	Location where reference work is published.	
ProvReference.Publisher	Name of reference work publisher.	
ProvReference.PublicationDate	Date reference work was published.	
ProvReference.PublicationYear	Year when reference work was published.	
ProvReference.CopyrightDate	Date of copyright for reference work.	
ProvReference.VolumeID	Volume identifier of reference work.	
ProvReference.IssueID	Issue identifier of reference work.	
ProvReference.Page	Range of pages of reference work.	
ProvReference.WorkExtent	Total number of pages of reference work.	

ProvReference.PackagingMethod	Public accessibility of reference work.	
ProvReference.SeriesEditor	Editor of series containing reference work.	
ProvReference.SeriesEditorRole	Role of Editor for series containing reference work.	
ProvReference.SeriesTitle	Title of series containing reference work.	
ProvReference.SeriesVolumeID	Volume identifier for series containing reference work.	
ProvReference.SeriesIssueID	Issue identifier for series containing reference work.	
ProvReference.DocumentType	Type of reference work. Ex: Journal, Book, Proceedings	
ProvReference.URL	URL of text or full reference of reference work.	
ProvReference.Availability	File path or file cabinet if stored, or blank if not available.	
ProvReference.ISBN	ISBN number for reference work.	
ProvReference.Note	Note about reference work.	
ProvReference.RefAbstract	Abstract of reference work.	
ProvReference.CallNumber	Identifier in classification system (LOC, Dewey, or other).	
ProvReference.ReferenceType	Use of object by reference work. Ex: Report,	
ProvReference.RefCitation	Complete bibliographic reference for reference work.	
ProvReference.RefCitSource	Citation database or service listing reference and date found.	
ProvReference.RefUseRight	Right or permission to use reference work, citation, or abstract.	
ProvReference.RefAccessRight	Right/permission to access or link reference work, citation or abstract.	
ProvReference.DisplayOrder	Order in which reference work will appear in reference list.	RelatedObjectSequence
Property.PropertyID	Database generated, Primary Key	
Property.PropertyParentID	Foreign Key, Property Table	
Property.PropertyName	Name of the property describing an object: Ingest Status, Ingest Format Processing, Significant Property, DCMI Type, Document Type, Content Type, Subject, Language. For Ingest Status: Under Development by Creator, Being Prepared for Submission, Received by Archivist, Content Review Pending, Content Under	

	<p>Review by Archivist, Content Review Complete, Description Pending, Description Under Review, Description Complete, DOI Assigned, Quality Review Pending, Quality Review Complete, Failed Content Quality Review. Rejected - Data Returned to Creator, Ingested, Destroyed; For Ingest Format Processing: All files Ingested in Supported Formats, Original Non-Supported Formats Only, Original formats and All Files Migrated to Supported Formats; For Significant Properties: Intellectual Content of Text, intellectual content of image; For DCMI Type: Collection, Dataset, Event, Image, Interactive Resource, Moving Image, Physical Object, Service, Software, Sound, Still Image; For Document Type (ISO 19115 Document Type): PresentationFormCode: documentDigital, documentHardcopy, imageDigital, imageHardcopy, mapDigital, mapHardcopy, modelDigital, modelHardcopy, profileDigital, profileHardcopy, tableDigital, tableHardcopy, videoDigital, videoHardcopy; Content Type: Data, Documentation, Permission; Subject thesaurus or controlled vocabulary; Language: English, Spanish.</p>	
Property.PropertyDesc	Description of a property.	SignificantProperties
Property.PropertyStatus	Current status of the property: Valid, Not in Use.	
Provenance_Property.ProvenancePropertyID	Database generated, Primary Key	
Provenance_Property.ProvenanceID	Foreign Key, Provenance Table	
Provenance_Property.PropertyID	Foreign Key, Property Table	
Provenance_Property.PPStartDate	Date when property began	
Provenance_Property.PPEndDate	Date when property ended.	
Provenance_Property.Note	Note about property as it pertains to a particular	

	provenance.	
ProvenanceNote.ProvenanceNoteID	Database generated, Primary Key	
ProvenanceNote.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceNote.NoteText	Note about the provenance of an object.	
ProvenanceNote.PostedBy	Person who posted the note about the provenance of an object.	
ProvenanceNote.PostedOn	Date the note was posted.	
ProvenanceNote.NoteType	Type of provenance note: Accession, Maintenance, Disposition.	
OtherTitle.OtherTitleID	Database generated, Primary Key	
OtherTitle.ProvenanceID	Foreign Key, Provenance Table	
OtherTitle.TitleType	Alternate Title, Former Title	
OtherTitle.Title	Other title of an object.	
OtherTitle.Note	Note about the other title of an object.	
Person.PersonID	Database generated, Primary Key	AgentIdentifierType AgentIdentifierValue LinkingAgentIdentifierType LinkingAgentIdentifierValue
Person.ProvenanceID	Foreign Key, Provenance Table	
Person.PersonRole	Role of responsible person: Author, Contributor, Recipient, Internal Contact, Accessioner, Originating Organization Technical Contact, Originating Organization Program Contact, Environment Manager, Security Official.	LinkingAgentRole MessageDigestOriginator AgentType
Person.PersonOrder	Order in which person will appear in a Person Role list, if sorted.	
Person.FirstName	First name of person.	
Person.LastName	Last name of person.	AgentName
Person.Address1	Line 1 of person address.	
Person.Address2	Line 2 of person address.	
Person.City	City of person.	
Person.State	State of person.	
Person.Country	Country of person.	
Person.PostalCode	Postal code address for person.	
Person.Phone	Telephone number for person.	
Person.Fax	Fax number for person.	
Person.Email1	Primary e-mail address for person.	
Person.Email2	Second e-mail address for person.	
Person.Note	Note about person.	

Institution.InstitutionID	Database generated, Primary Key	
Institution.ProvenanceID	Foreign Key, Provenance Table	
Institution.InstitutionRole	Role of institution for object. Originating Organization, Program Support.	
Institution.InstitutionOrder	Order in which the institution will appear on an institution role list If higher priority has been assigned.	
Institution.InstitutionName	Name of institution.	
Institution.Address1	Line 1 of institution address.	
Institution.Address2	Line 2 of institution address.	
Institution.City	City of institution.	
Institution.State	State of institution.	
Institution.Country	Country of institution.	
Institution.PostalCode	Postal code for institution address.	
Institution.Phone	Telephone number for institution.	
Institution.Fax	Fax number for institution.	
Institution.Website	Website URL for institution.	
Institution.Note	Note about institution.	
Document.DocumentID	Database generated, Primary Key	
Document.ProvenanceID	Foreign Key, Provenance Table	
Document.DocumentType	Type of document describing the object: User Manual, User Guide, Variable List, Codebook, Data Layout, Parameter List, User Notes, File Inventory, Installation Instructions, Splash Page.	
Document.Title	Title of document describing the object.	
Document.ArchivalID	Identifier of the document if recorded as a provenance.	
Document.AccessPoint	URL of access point that disseminates document (http://...; ftp://...).	
Document.FileName	Filename of the document.	
Document.Scheme	Encoding scheme for the document. MARC, EAD, VRA, DC, NISOIMG, LC- AV, TEIHDR (Text Encoding Initiative Header), DDI, FGDC-STD-001-1998, FGDC CSGDM, DIF, ISO 19115, NY State Clearinghouse, Metalite, IEEE LOM, ESRI, Unknown.	
Document.Language	Language in which the document is written: English, Spanish.	
Document.AdditionalInfo	Additional information about	

	the document.	
Distributor.DistributorID	Database generated, Primary Key	
Distributor.DistributorName	Name of the service that distributes a dissemination of an object: CIESIN, Columbia Earth Institute, SEDAC, SEDAC LTA.	
Distributor.Address1	Line 1 of distributor address.	
Distributor.Address2	Line 2 of distributor address.	
Distributor.City	City of distributor.	
Distributor.State	State of distributor.	
Distributor.PostalCode	Postal Code of distributor.	
Distributor.Country	Country of distributor.	
Distributor.TelePhone	Telephone number of distributor.	
Distributor.Fax	Fax number of distributor.	
Distributor.URL	URL of distributor.	
Distributor.Email	Email address of distributor.	
Distributor.Website	Website of distributor.	
Dissemination.DisseminationID	Database generated, Primary Key	
Dissemination.DistributorID	Foreign Key, Distributor Table	
Dissemination.Medium	Primary data storage medium for distributing object from dissemination service: CD-ROM, DVD, URN, URL, FTP.	
Dissemination.PublicAccessPoint	Primary Access Point for distributing object to the public from dissemination service (http://... ; ftp://...).	
Dissemination.InternalLocation	Path and folder name of location from which object is distributed from internal dissemination service.	
Dissemination.DissemSize	Size of object disseminated in Bytes	
Dissemination.StartDate	Date dissemination service began disseminating object.	
Dissemination.EndDate	Date dissemination service discontinued disseminating object.	
Dissemination.DIPDescription	File Inventory of all files included in the Dissemination Information Package (DIP) submitted to dissemination service for distribution.	
Dissemination.DissemCharge	Amount received from dissemination service for distributing object.	
Dissemination.DissemChargeUnit	Monetary unit of DisseminationCharge.	
Dissemination.OriginalPublisher	Flag indicating that dissemination is by Original	

	Publisher: N, Y.	
Dissemination.PrimaryDistributor	Flag indicating that dissemination is by Primary Distributor: N. Y.	
DissemAltPoint.DissemAltPointID	Database generated, Primary Key	
DissemAltPoint.DisseminationID	Foreign Key, Dissemination Table	
DissemAltPoint.AltAccessPoint	Alternate access point disseminating object (http://...; ftp://...).	
DissemAltPoint.StartDate	Date started disseminating object at alternate access point.	
DissemAltPoint.EndDate	Date stopped disseminating object at alternate access point..	
DissemAltPoint.Note	Note on alternate dissemination point.	
ProvDissemination.ProvDisseminationID	Database generated, Primary Key	
ProvDissemination.DisseminationID	Foreign Key, Dissemination Table, part of Alternate Key	
ProvDissemination.ProvenanceID	Foreign Key, Provenance Table, part of Alternate Key	
ProvDissemination.RootPath	Directory path where object is disseminated within group.	
ProvDissemination.StartDate	Date object began being disseminated within group.	
ProvDissemination.EndDate	Date object no longer disseminated within group.	
ProvDissemination.Note	Note on object dissemination within group.	
PDFFileList.PDFFileListID	Database generated, Primary Key	
PDFFileList.ProvDissemID	Foreign Key, ProvDissemination Table	
PDFFileList.FileName	Name of the file listing files disseminated in dissemination.	
PDFFileList.StartDate	Date the listed files were included in dissemination.	
PDFFileList.EndDate	Date the listed files were no longer in dissemination.	
PDFFileList.Note	Note about the list of files included within dissemination.	
Catalog.CatalogID	Database generated, Primary Key.	
Catalog.CatalogName	Name of the catalog where an object is registered: SEDAC, CIESIN, EDGRS, ESIP, DLESE, NSDL.	
Catalog.URL	URL of the catalog where an object is registered.	
Catalog.ContactInfo	Contact information for a	

	catalog where an object is registered.	
CatalogEntry.CatalogEntryID	Database generated, Primary Key.	
CatalogEntry.DisseminationID	Foreign Key, Dissemination Table.	
CatalogEntry.CatalogID	Foreign Key, Catalog Table.	
CatalogEntry.EntryID	Unique Identifier in the catalog for the record describing the object.	
CatalogEntry.Submission	Date description of entry was submitted to a catalog.	
CatalogEntry.StartDate	Date catalog entry was available.	
CatalogEntry.EndDate	Date catalog entry was no longer available.	
CatalogEntry.EntryStatus	Status of catalog entry: None, Partial, Complete, Removed.	
CatalogEntry.EntryDesc	Description of the dissemination included in the fields of the entry.	
CatalogEntry.EntryLastUpdate	Date of the last update to the catalog entry for the object.	
CatalogEntry.Note	Note about the catalog entry for an object.	
Location.LocationID	Database generated, Primary Key	Storage
Location.LocType	Type of location. Onsite Offline Archive, Offsite Offline Archive, Onsite Processing, Onsite Network, Onsite Storage Shelves.	ContentLocationType
Location.LocName	Name of the Location. CIESIN Archival Facility, GISS Computer Room, Geoscience Computer Room, Geoscience Storage Room.	ContentLocationValue
Location.LocDesc	Description of the archival facilities at the location.	Content Location
Location.LocAGENT	Name of the individual responsible for the location.	
LocationParam.LocationParamID	Database generated, Primary Key	
LocationParam.LocationID	Foreign Key, Location Table	
LocationParam.ParamName	Name of the parameter measured at the location: Temperature, High Temperature, Low Temperature, Humidity, High Humidity, Low Humidity, Inventory, Recovery Test.	
LocationParam.ParamValue	Value of the parameter	

	measured at the location.	
LocationParam.ParamUnit	Unit of measurement for recorded value measured at location: Degrees Fahrenheit, Percentage.	
LocationParam.ParamDate	Date and time of measurement.	
LocationParam.ParamNote	Note on instrument or parameter measured.	
Media.MediaID	Database generated, Primary Key	Storage
Media.MediaType	Type of media used: CD-ROM, CD-R, DVD-R, DVD+R, Print.	StorageMedium
Media.MediaBrand	Brand of the media: TDK 700 MB 48x Data CD-R.	
Media.MediaPurchaseDate	Date the media was purchased.	
Media.Note	Note about the media.	
Media_Location.LocationID	Database generated, Primary Key	
Media_Location.MediaID	Foreign Key, Media Table	
Media_Location.DepositedOn	Date the archival media was deposited at the location.	
Media_Location.RemovedOn	Date the archival media was removed from the location.	
Media_Location.Note	Note about the archival media housed at a location.	
Event.EventID	Database generated, Primary Key	EventIdentifierValue RelatedEventIdentification RelatedEventIdentifierValue LinkingEventIdentifierValue
Event.MediaID	Foreign Key, Media Table	EventIdentifierType RelatedEventIdentifierType LinkingEventIdentifierType
Event.EventStatus	Status of the event: Complete, Scheduled, Postponed.	RelatedEventSequence EventOutcome
Event.Designation	Name of the event: Deposit, Inventory, Audit, Inspection, Virus Check, Media Write, Quality Check, Format Conversion, Removal, Check Out, Bring Forward, Media Request, Media Destruction.	EventType LinkingEventType
Event.Procedure	Procedure completed on media during an event.	EventDetail
Event.Location	Location where the event occurred.	
Event.EventDate	Date and time of event.	EventDateTime
Event.Outcome	Description of the event outcome.	EventOutcomeDetail
Event.Note	Note about the event.	
Event.ResponsiblePerson	Individual responsible for the event.	LinkingAgentIdentifier

Event.RetrievalRecipient	Individual who received the media.	
Event.RetrievalRequestor	Individual who requested the media.	
ProvenanceMedia.ProvenanceMediaID	Database generated, Primary Key	LinkingObjectIdentifierType
ProvenanceMedia.ProvenanceID	Foreign Key, Provenance Table	LinkingObjectIdentifierValue
ProvenanceMedia.MediaID	Foreign Key, Media Table	Fixity
ProvenanceMedia.MediaCopy	Instance of object stored on media: Preservation Master, Security Master, Duplication Master, Access Service Copy.	
ProvenanceMedia.RootPath	Path and directory of the object on the media.	
ProvenanceMedia.WriteDate	Date the object was written on the media.	
ProvenanceMedia.DeleteDate	Date the object was deleted from the media.	
ProvenanceMedia.ValidationProc	Signature type used to generate validation key: MD5, SHA-1.	MessageDigestAlgorithm
ProvenanceMedia.KeyCreationDate	Date validation key was generated.	
ProvenanceMedia.Result	Hash value, filename, or path and filename of stored validation signature.	MessageDigest
ProvenanceMedia.LastCheckDate	Date validation key generated and compared with original.	
ProvenanceMedia.NextCheckDate	Date scheduled for validation key comparison.	
DataFile.DataFileID	Database generated, Primary Key	ObjectCategory ObjectIdentifier ObjectIdentifierValue
DataFile.ProvenanceMediaID	Foreign Key, ProvenanceMedia Table	ObjectIdentifierType
DataFile.FileName	Name of the file including its extension.	
DataFile.FileSize	Size of the file in bytes.	Size
DataFile.ContentType	Type of content in the file: Data, Documentation, Permission, Startup.	
DataFile.MarkupType	Type of markup used to encode contents of file: HTML, SGML, XML.	DependencyIdentifier DependencyIdentifierType
DataFile.MarkupName	Name of schema and version employed for the MarkupType: TEI DTD, W3C XML.	Dependency DependencyName
DataFile.MarkupSchema	Contents of schema used for the Markup Type.	DependencyIdentifierValue
DataFile.FileAccessRight	Access rights or limitations specific to file: Universal Access -unrestricted, Research Use Only, Educational Use Only, Research and Educational	LinkingPermissionStatementIdentifierValue LinkingPermissionStatementIdentifierType

	Use Only, Non-Commercial Use Only, On-Site Use Only, Signed Confidentiality Agreement Only, Staff Only, Staff Addresses Only, Licensees Only, Domestic IP Addresses Only, No Online Access, No Access Allowed Pending Further Evaluation.	
DataFile.ExpofAccessRight	Date access rights or restrictions specific to file expire.	
DataFile.PreservRestrictn	Preservation rights or limitations for preserving file.	
DataFile.EncryptionInfo	Description of encryption employed on file.	
DataFile.AccessInhibitors	Inhibitors to access inherent to the file: Password protection, AAA watermark.	Inhibitors InhibitorType
DataFile.FileType	MIME Media Type for file in format Content Type/Subtype: application/pdf, audio/mpeg, image/tiff, message/http, model/vrml, multipart/signed, text/html, video/mpeg.	
DataFile.FileVersion	Version of the MIME Media Type.	
DataFile.FileFormat	Software program used to create the file: Microsoft Word 2000, Microsoft Excel 2000.	Format FormatDesignation FormatName FormatVersion
DataFile.FormatRegistry	Registry to identify the software program used to create or view the file: Pronom.	FormatRegistry FormatRegistryName FormatRegistryRole
DataFile.RegistryEntry	Entry in the Format Registry for the file format.	FormatRegistryKey
DataFile.DateModified	Last date and time when file was written or modified.	DateCreatedbyApplication
DataFile.PreservFormat	File format is a preservation format: Y, N.	PreservationLevel
DataFile.AltFormat	Alternate or derivative formats that contain contents of file: txt, csv, pdf.	
DataFile.OriginalFileID	Foreign key to DataFile.DataFileID. DataFileID for original file from which the file is a derivative.	
DataFile.OriginalFileName	Filename (and extension) for the original source file from which the file described is a derivative.	OriginalName
DataFile.Creation	Description of the file creation, coded to record file history: Original file received, Migrated file,	

	Archive generated file.	
DataFile.History	Description of file history, coded string to record file history: O = Original file received. M = Migrated file. A = Archive generated file. MMO = Migrated file from Migrated file from Original file.	
DataFile.RefreshDate	Last date and time file was written to any media.	
DataFile.AccessStartDate	Date when access to file may be granted.	
DataFile.AccessEndDate	Date when access to file ends.	
DataFile.DeaccessionDate	Date when file was deaccessioned from archive.	
FilePart.FilePartID	Database generated, Primary Key	ObjectCategory ObjectIdentifier ObjectIdentifierValue
FilePart.DataFileID	Foreign Key, DataFile Table	ObjectIdentifierType
FilePart.FilePartType	Type of FilePart: Table, Screenshot, Thumbnail Image, Page Image, Annotation, Mask, Metadata Text.	
FilePart.FilePartLoc	Location or address of FilePart within the file: Unknown.	
FilePart.FilePartDesc	Description of FilePart differentiated from file.	
Environment.EnvironmentID	Database generated, Primary Key	Environment
Environment.DataFileID	Foreign Key, DataFile Table	
Environment.EnvironmentType	Type of environment required for data file: Rendering Software, Display Application, Operating System, Middleware, Hardware CPU, Hardware Peripherals.	CreatingApplication EnvironmentPurpose Software SoftwareType Hardware Hardware Type
Environment.Title	Title of environment software or hardware required.	CreatingApplicationName SoftwareName HardwareName
Environment.Description	Description of implementation environment for data file.	CreatingApplicationVersion SwVersion
Environment.Documentation	Documentation for the implementation environment.	EnvironmentCharacteristic EnvironmentNote SwOtherInformation SwDependency HwOtherInformation
Environment.ExpiryDate	Date environment is scheduled to expire or be replaced.	
AccessRestriction.AccessRestrictionID	Database generated,	Inhibitor

	Primary Key	
AccessRestriction.ProvenanceID	Foreign Key, Provenance Table	
AccessRestriction.AccessRestriction	Security category or type of restriction: Onsite Use Only - Confidential Data- No Copying, Permission from Project Director Required, Confidentiality Agreement Required - No Copying or Network Access, Project Director only, Universal Access (unrestricted), Research Use Only, Educational Use Only, Research and Educational Use Only, Non-Commercial Use Only, On-Site Use Only, Signed Confidentiality Agreement Only, CU Personnel Only, CU Addresses Only, Domestic IP Addresses Only, No Online Access.	InhibitorTarget SignatureInformation SignatureInformationEncoding
AccessRestriction.AccessRestrictionDesc	Description of restriction on access to object.	InhibitorKey SignatureValue
AccessRestriction.CurrentDeclaration	Confidentiality agreement or user agreement on restriction.	SignatureMethod
AccessRestriction.SecurityNote	Note about the security restriction on object.	Signer SignatureValidationRules SignatureProperties KeyInformation KeyType KeyValue KeyVerificationInformation
AccessRestriction.SecurityReviewDate	Date security restriction is scheduled for review.	
AccessRestriction.ARStartDate	Date access restriction on object begins.	
AccessRestriction.AREndDate	Date access restriction on object ends.	
Decision.DecisionID	Database generated, Primary Key	
Decision.DecisionType	Type of Decision: Acquisition, Nomination for Dissemination, Nomination for Deaccession, Nomination for Transfer, Nomination for Accession, Dissemination, Disposition, Transfer, Provisional Use, Beta System Dissemination; Production System Dissemination.	
Decision.Decision	Decision about an object for a Decision Type. For Preservation Service: Preserve content, Preserve Original Formats; For	PreservationLevel

	SEDAC: Disseminate, Ancillary Product, Transfer to LTA; For SEDAC Acquisition: redistributed 3rd party data, value-added 3rd party data, SEDAC-developed; For LTA: Public Dissemination, Restricted Dissemination; (Others Considered: Under Review, Disseminate, Delete, Remove) The following 7 categories are not mutually exclusive: Delete; Retire; Long-Term Archive; Archive, But Not Disseminate, SEDAC Disseminate by Type: - Subsets Only, - Web Download - Internet Mapping; Missing; Add to SDP; Consolidate.	
Decision.MeetingDate	Date when the decision was made.	
Decision.DecisionActiveDate	Date on which the decision is implemented.	
Decision.Authority	Authority deciding the status of an object within the archive: CIESIN Director, CIESIN Deputy Director, CIESIN Associate Director for IS, SEDAC UWG, SEDAC Project Manager, SEDAC Lead Project Scientist, SEDAC Archives Manager, SEDAC Archivist, LTA Board, LTA Manager, LTA Archivist.	
Decision.Note	Note of Rationale or Justification for making the decision.	
ProvenanceDecision.ProvenanceDecisionID	Database generated, Primary Key	
ProvenanceDecision.ProvenanceID	Foreign Key, Provenance Table	
ProvenanceDecision.DecisionID	Foreign Key, Decision Table	
ProvenanceDecision.Note	Note about the decision in reference to a specific provenance.	
RightOwner.RightOwnerID	Database generated, Primary Key	
RightOwner.Entity	Organization that owns right for an object or Public Domain.	
RightOwner.Signator	Person who signed document authorizing a right for an object.	
RightOwner.SignatorTitle	Title of signer authorizing a	

	right for an object.	
RightOwner.SigContactInfo	Contact information for signer authorizing a right for an object.	
RightOwner.Address1	Line 1 of right owner address.	
RightOwner.Address2	Line 2 of right owner address.	
RightOwner.City	City of right owner.	
RightOwner.State	State of right owner.	
RightOwner.Country	Country of right owner.	
RightOwner.PostalCode	Postal code for right owner.	
RightOwner.Telephone	Telephone number for right owner.	
RightOwner.Fax	Fax number for right owner.	
RightOwner.Email	E-mail for right owner.	
RightOwner.Website	URL of right owner website.	
RightOwner.Note	Note about right owner.	
Right.RightID	Database generated, Primary Key	
Right.RightType	Type of right held: copyright, license, public domain, contract, Permission.	
Right.RightName	Distribution Right, Usage Right, Preservation Right, Access Right, Print Right.	Act
Right.RightDesc	Description of the right and intellectual property restrictions or obligations.	Restriction
Right.Note	Note on rights for object.	
RightHeld.RightHeldID	Database generated, Primary Key	PermissionStatementIdentifierType PermissionStatementIdentifierValue
RightHeld.RightOwnerID	Foreign Key, RightOwner Table	GrantingAgent
RightHeld.ProvenanceID	Foreign Key, Provenance Table	LinkingObject
RightHeld.RightID	Foreign Key, Right Table	GrantingAgreementIdentification
RightHeld.RightOrigination	Right granted to others or right received from owner: Granted, Received.	
RightHeld.CurDeclaration	Content of license, contract, or permission statement.	GrantingAgreementInformation
RightHeld.RightDocFile	Filename and directory path of the digital (or scanned) document that authorizes rights for an object.	
RightHeld.RightDocLoc	Location of original printed license, contract, or permission document: Onsite Archive, Offsite Archive, Storeroom, Not Printed.	
RightHeld.BeginDate	Date of execution for rights held or date of contract if not specified.	StartDate

RightHeld.ExpiryDate	Date of expiration for rights held or null if no expiration date.	EndDate
RightHeld.Receiver	Person who signed document (or agreed to conditions) and is authorized representative to acquire or use object.	
RightHeld.Cost	Cost to acquire object or rights to object.	
RightHeld.CostUnit	Monetary unit for cost to acquire object or rights to object.	
RightHeld.Note	Note on right held for an object.	PermissionNote
RightHeld.RightBrief	Brief description of right held and intended usage group or purpose: Use and distribute freely, Use and distribute only within organization, Distribute for research or educational purposes, Third party distribution, Research use only, Educational use only, Non-commercial use only, Staff use only.	
RightHeld.Request	Request for rights, including the reason to justify authorization.	