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Codebook DTD Version 2.0<!-- The Data Documentation Initiative Codebook DTD
-->
<!-- CodeBook.DTD -->
<!-- Version 2.0 -->
<!-- March 7, 2003 -->
<!-- ===== -->
<!-- An SGML rendition of the document analyses and element -->
<!-- descriptions produced by David Barber, John -->
<!-- Brandt (JB), Ann Green (AG), and the ICPSR Committee. -->
<!-- SGML translation and attached comments by Paul -->
<!-- Schaffner (PFS) and Nancy M. Vlahakis (NANMV). -->
<!-- Authors include Paul Schaffner, Nancy M. Vlahakis, -->
<!-- Daniel Pitti, Jan Nielsen, and Jerome McDonough. -->
<!-- This DTD is intended for use in producing electronic -->
<!-- versions of codebooks for quantitative social science data. -->
<!-- ===== -->
<!-- -->
<!-- Version history: -->
<!-- -->
<!-- 1.0 Includes PFS-authored sections only. -->
<!-- 1.1 19.4.96 Incorporates NANMV-authored sections. -->
<!-- 1.1a 22.4.96 Addition of ATTLISTS to NANMV sections -->
<!-- and general cleanup, in progress. -->
<!-- Leading to: -->
<!-- 1.2 23.4.96 First version that pretends to -->
<!-- completeness. -->
<!-- 1.3 21.5.96 Incorporates 3/96-4/96 changes -->
<!-- in descriptions. -->
<!-- 1.4 29.5.96 Incorporates 5/96 changes -->
<!-- in descriptions except header. -->
<!-- 1.4a 7.6.96 Minor repairs. -->
<!-- 1.5 11.7.96 Further minor repairs occasioned by -->
<!-- conversion to parameter-entity file -->
<!-- (teicb1.dtd, version 1.5). -->
<!-- 1.6 Modified by Daniel Pitti, UC Berkeley, Library. -->
<!-- Provided value "PCDATA" for TEI parameter entities -->
<!-- to make it possible to parse and test the DTD. -->
<!-- Parsed with NSGMLS and Near&Far -->
<!-- 1.6X Modified by Jan Nielsen (JN), Danish Data Archives. -->
<!-- Modifications in several places to produce a -->
<!-- version compliant with the W3C XML version 1.0 -->
<!-- proposal of December 8th 1997. Parsed and tested -->
<!-- with Microsofts Java parser MSXML (ver. 1.0.8). -->
<!-- The XML 1.0 specification used is available at -->
<!-- http://www.w3.org/TR/PR-xml-971208. -->
<!-- - and-connectors have been replaced by -->
<!-- sequence-connectors. The order of -->
<!-- elements is unchanged. -->
<!-- - tag-minimization parameters have been -->
<!-- removed. -->
<!-- - Parameter entity references without -->
<!-- semicolons have been fixed. -->
<!-- - Name groups are avoided by expansion -->
<!-- of element and attribute declarations. -->
<!-- - Element inclusions have been discarded. -->
<!-- - Attribute default values have been quoted. -->
<!-- - NUMBER data type have been replaced by CDATA -->
<!-- in attribute values. -->
<!-- 1.7 7/1/98 Modified by Jerome McDonough, U.C. Berkeley -->
<!-- Library Systems Office. Extensive revisions to both -->
<!-- structure and content of DTD, including: -->
<!-- - making Study Level Title only required element -->
<!-- - Adding notes on mapping from DDI DTD to Dublin Core -->

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<!--      1.8      9/15/98 Modified by J. McDonough, U.C. Berkeley      -->
<!--      Library Systems Office.  Modifications include:              -->
<!--      - separate declarations of citation formats for              -->
<!--      docDscr and stdyDscr portions of document combined          -->
<!--      - an XML version of the Exchange Table Model version        -->
<!--      of CALS Tables (from OASIS) incorporated in DTD.            -->
<!--      1.9      12/14/98 Modified by J. McDonough, U.C. Berkeley      -->
<!--      Library Systems Office.  Modifications include:              -->
<!--      - origFundAg and origGrantNo elements added to              -->
<!--      producer statement in citation in the Document              -->
<!--      Description, to allow people                                  -->
<!--      to encode information on funding for previous                -->
<!--      versions of the codebook.                                     -->
<!--      - Affiliation attribute added to Distributor                 -->
<!--      - deposReq element added to Data Use statement              -->
<!--      for information on depository requirements on                 -->
<!--      papers generated from data                                    -->
<!--      - minor alterations made to attrib. vocabulary for          -->
<!--      fileStrc                                                      -->
<!--      - vargrp attribute on var element removed as                 -->
<!--      redundant; use var attribute on vargrp element to            -->
<!--      encode vargrp to var relationships                            -->
<!--      - cardNo attribute added to File Location element            -->
<!--      - default on interval attrib on var element changed          -->
<!--      to 'discrete'                                                 -->
<!--      - catStat element made repeatable                             -->
<!--      - controlled vocab of (start|end|single) established         -->
<!--      for date event attributes                                     -->
<!--      - order of origProducer and software elements in             -->
<!--      production statement in citation reversed                    -->
<!--      - DocuNo element in citation has name changed to             -->
<!--      IDNo                                                           -->
<!--      - date of deposit element made repeatable to match           -->
<!--      depositor                                                      -->
<!--      - recGrp and subsidiary elements reinstated beneath         -->
<!--      the fileStrc element                                           -->
<!--      2.0      1/4/99 Modified by J. McDonough, U.C. Berkeley      -->
<!--      Library Systems Office.  Changes include:                    -->
<!--      - new element, srcDoc, added to document description         -->
<!--      section for encoding bibliographic cite for                  -->
<!--      original codebook from which electronic version is          -->
<!--      derived                                                         -->
<!--      - Separate copyright element in doc. desc. replaced          -->
<!--      by new copyright element in producer section of              -->
<!--      citation's content model                                       -->
<!--      - catStat now includes 'table' in its content model          -->
<!--      - 'for' attribute removed from contact element               -->
<!--      - abstInfo eliminated.  abstract date element made          -->
<!--      attribute of abstract.                                         -->
<!--      - Missing and missing type attribs. added to Category       -->
<!--      group                                                           -->
<!--      - new date attributes                                          -->
<!--      - Funding Agency and Grant No elements added to              -->
<!--      Production statement for citation element                    -->
<!--      - new range elements for valrng, invalrng                    -->
<!--      - sdatrefs added to qstn element                              -->
<!--      2.01      - Orig[Producer|GrantNo|fundAg] removed from citation -->
<!--      element, and duplicate GrantNo and fundAg removed           -->
<!--      as well.  New role attribute added to grantNo and            -->
<!--      fundAg.                                                         -->
<!--      2.02      - copyright element 2.4.2.7 removed as redundant.    -->
<!--      2.03      - Definitions of elements modified to reflect        -->
<!--      preliminary tag library definitions.                           -->

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<!--      2.04      Implementation of suggested changes from ICPSR      -->
<!--      OR meeting, including:      -->
<!--      - Data collector dropped from all citation elements      -->
<!--      and moved to 2.3.1      -->
<!--      - MARCURI attributed added to all citation elements      -->
<!--      - New holdings element added to all citations      -->
<!--      - Documentation source made repeatable      -->
<!--      - dataDist element renamed to distrbtr      -->
<!--      - New format attrib. added to biblCit to specify      -->
<!--      citation format used      -->
<!--      - URI attrib. added to Series Statement      -->
<!--      - citation elements added to all sections of 2.5      -->
<!--      - New vocab attribute added to keywords element      -->
<!--      - New concept subelement added to var element      -->
<!--      - URI attribute added to Distributor element to      -->
<!--      enable online contact of download/ordering service      -->
<!--      - Date attrib. added to software element      -->
<!--      - e-mail and uri attribs. added to contact element      -->
<!--      - xml:lang attrib. changed to NMTOKEN      -->
<!--      - new pubrefs attrib. added to file/var/varGrp      -->
<!--      - all URL attribs. changed to URI      -->
<!--      - New subelements respUnit & anlysUnit added to var      -->
<!--      - New subelement derivation added to var      -->
<!--      - Range element recast per NESSTAR recommendation      -->
<!--      - New element stdCatgry under var      -->
<!--      - catgry attrib. added to catgryGrp to allow nesting      -->
<!--      - vendor attrib. added to var and to labl      -->
<!--      - varGrp attrib added to varGrp element to allow      -->
<!--      nesting of variable groups      -->
<!--      - recGrp attrib. added to recGrp element      -->
<!--      - keyvar attrib on recGrp made IDREFS      -->
<!--      - URI attribute added to fileDscr      -->
<!--      - sumDscr and dataColl made repeatable      -->
<!--      - country attrib added to catgry element      -->
<!--      - new major section added for access conditions,      -->
<!--      with access-related elements from study description      -->
<!--      and elsewhere merged in. Access attrib added to      -->
<!--      var, varGrp, fileDscr and stdyDscr.      -->
<!--      2.05      EXPERIMENTAL VERSION      -->
<!--      Includes a variety of changes, including several      -->
<!--      revisions to changes made as a result of the ICPSR      -->
<!--      OR Meeting. Experimental additions include:      -->
<!--      - A new Link element, available in leaf elements      -->
<!--      of the DTD, to express arbitrary links to other      -->
<!--      elements within the codebook.      -->
<!--      - A new section of the codebook for local extensions,      -->
<!--      which may be defined in a new attached file called      -->
<!--      codebook.ext.ent      -->
<!--      - section 5 of the codebook, for describing access      -->
<!--      conditions, has been eliminated, with elements      -->
<!--      from that section reinstated in section 2.4. Link      -->
<!--      attributes for pointing to access information have      -->
<!--      been preserved.      -->
<!--      - controlled vocabulary added to varGrp type attrib.      -->
<!--      - variable format attribute changed to new varFormat      -->
<!--      element with new attributes to allow more specific      -->
<!--      description of data storage for variable      -->
<!--      - rectype attribute added to var element      -->
<!--      - cardNo attribute on location renamed to RecSegNo,      -->
<!--      a new fileId attrib. added, and location made      -->
<!--      repeatable      -->
<!--      2.06      REVISED EXPERIMENTAL      -->
<!--      - eliminates local extension mechanism      -->

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<!-- - category groups are now nestable -->
<!-- 1.00 FINAL VERSION -->
<!-- - no additional changes -->
<!-- 1.01 MINOR MODIFICATIONS by Perry Roland, University -->
<!-- of Virginia, 1/11/2001 -->
<!-- - added notes element to content models of -->
<!-- stdyDscr and dataDscr elements -->
<!-- - made notes element optional & repeatable in each -->
<!-- content model where it occurs -->
<!-- - added agency attribute to cleanOps element -->
<!-- - added cycle attribute to timePrd and collDate -->
<!-- elements -->
<!-- - added sdatrefs attribute to catgry element -->
<!-- - added sdatrefs attribute to notes element -->
<!-- - made dataChck element optional & repeatable in -->
<!-- content model of fileTxt element -->
<!-- - added catStat element to content model of -->
<!-- catgryGrp element -->
<!-- - edited code examples illustrating use of level -->
<!-- attribute at A.1, Other Material: to reflect -->
<!-- correct attribute values -->
<!-- - added version attribute to codeBook element to -->
<!-- facilitate machine processing -->
<!-- 1.02 MODIFICATIONS by Perry Roland, University of -->
<!-- Virginia, 8/8/2001 following DDI Comm. meeting in -->
<!-- Wash., D.C. 6/29/2001 -->
<!-- - added callno, label, and type attributes to -->
<!-- setAvail element (2.4.1) -->
<!-- - added callno, label, type, and media attributes to -->
<!-- relMat element (2.5.1) -->
<!-- - added concept element already defined in 4.3.21 to -->
<!-- content model of varGrp element (4.1). -->
<!-- - added wgted, wgt-var and weight attributes to -->
<!-- catStat element (4.3.18.4) -->
<!-- - added media attribute to holdings element (A.6.8) -->
<!-- - added level attribute to IDNo element -->
<!-- - added sdatrefs attribute to qstnLit (4.3.8.2), -->
<!-- txt (A.3), and catStat (4.3.18.4) elements. -->
<!-- - altered content model of the following elements: -->
<!-- universe (2.2.3.7), anlyUnit (2.2.3.6), anlysUnit -->
<!-- (4.3.7), nation (2.2.3.3), geogCover (2.2.3.4), -->
<!-- geogUnit (2.2.3.5), dataKind (2.2.3.8), timeMeth -->
<!-- (2.3.1.1), sampProc (2.3.1.4), collMode (2.3.1.6), -->
<!-- srcOrig (2.3.1.8.2), resInstru (2.3.1.7), and -->
<!-- varGrp (4.1) -->
<!-- - created new ExtLink (external link) element (A.12) -->
<!-- to allow encoding of links to resources outside -->
<!-- the codebook -->
<!-- - modified content model of fileDscr (3.0), -->
<!-- added locMap (3.3), and modified dataDscr (4.0) -->
<!-- per http://www.socsci.umn.edu/~wlt/ddi/AGG/ -->
<!-- JUNE_MTG/AGG-final-schema.doc -->
<!-- 1.02.1 MODIFICATIONS by Wendy Thomas, University of -->
<!-- Minnesota, 2/20/2002 following DDI Comm. meeting in -->
<!-- Wash., D.C. 1/15/2002 -->
<!-- - renumbered locMap 3.3 to 3.2 and notes 3.4 to 3.3 -->
<!-- to reflect sequence -->
<!-- - changed attribute nCubeRef from CData to IDRef -->
<!-- (3.2.1) -->
<!-- - removed attributes col, row, colCnv, rowCnv, query -->
<!-- from physLoc 3.2.1.2 as they refer to -->
<!-- unincorporated elements of a broader proposal -->
<!-- - inserted explanations of concept in 4.1 and -->

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<!--      renumbered 4.1.3 through 4.1.6 to reflect insertion -->
<!--      - added %a.global; to nCube attribute list (4.3) -->
<!--      - changed attributes other and total to (Y|N) "N" -->
<!--      to reflect original design (4.3.18) -->
1.3      MODIFICATIONS by Sanda Ionescu, ICPSR (University -->
<!--      of Michigan), 7/15/2002, following the DDI -->
<!--      Committee meeting in Washington, D.C., 6/15/2002 -->
<!--      - changed var (4.3) attribute "wgt-var" from IDREF -->
<!--      to IDREFS -->
<!--      - added var attribute "weight" -->
<!--      - added sumStat (4.3.14) attribute "wgt-var" -->
<!--      - changed sumStat attribute "weight" from IDREF to -->
<!--      IDREFS -->
<!--      - changed catStat (4.3.17.2 and 4.3.18.4) attribute -->
<!--      "weight" from IDREF to IDREFS -->
<!--      - added option "nested" to attribute "type" in -->
<!--      fileStrc (3.1.3) -->
<!--      - added attributes "rtypeloc", "rtypewidth", and -->
<!--      "rtypevtype" to recGrp (3.1.3.1) -->
<!--      - made elements timeDmns (4.3.12), dmns (4.3.13) and -->
<!--      cohort (4.3.12.1 and 4.3.13.1) optional and -->
<!--      repeatable -->
<!--      - made element measure (4.3.14) optional and -->
<!--      non-repeatable -->
<!--      - changed contents of elements CubeCoord (3.2.1.1) -->
<!--      and physLoc (3.2.1.2) from PCDATA to EMPTY -->
<!--      - changed contents of element measure (4.3.14) from -->
<!--      (#PCDATA|%a.phrase) to EMPTY -->
<!--      - changed contents of element p from -->
<!--      (#PCDATA|%a.phrase) to (#PCDATA|emph|hi|list) -->
<!--      - declared formatting elements div, emph, head, -->
<!--      hi, itm, list, label according to TEI guidelines -->
<!--      - changed contents of element othId to -->
<!--      (#PCDATA|%a.phrase;|%e.form;)* -->
2.0      MODIFICATIONS made by Sanda Ionescu, ICPSR (Univ. -->
<!--      of Michigan), 3/7/2003, following the DDI Committee -->
<!--      meeting in Washington, DC, 2/7/2003 -->
<!--      - added element geoBndBox (2.2.3.6) with its child -->
<!--      elements westBL (2.2.3.6.1), eastBL (2.2.3.6.2), -->
<!--      southBL (2.2.3.6.3), and northBL (2.2.3.6.4) -->
<!--      - added element boundPoly (2.2.3.7) with its child -->
<!--      element polygon (2.2.3.7.1), child element point -->
<!--      (2.2.3.7.1.1), and child elements gringLat -->
<!--      (2.2.3.7.1.1.1) and gringLon (2.2.3.7.1.1.2) -->
<!--      - renumbered elements anlyUnit, universe, dataKind -->
<!--      to fit new configuration -->
<!--      - added attributes country and sdatrefs to generic -->
<!--      description of element labl (A.2) -->
<!--      - added element nCubeGrp (4.2) with subelements -->
<!--      labl (4.2.1), txt (4.2.2), concept (4.2.3), defntn -->
<!--      (4.2.4), universe (4.2.5), and notes (4.2.6) -->
<!--      - renumbered var and all its subelements to 4.3 to -->
<!--      fit in new configuration -->
<!--      - added attributes temporal, geog, geoVocab, and -->
<!--      catQty to element var (4.3) -->
<!--      - added attributes levelno, levelnm, compl, and excl -->
<!--      to element catgyGrp (4.3.17) -->
<!--      - added attribute excl to element catgry (4.3.18) -->
<!--      - deleted attributes other and total from element -->
<!--      catgry (4.3.18) -->
<!--      - removed recursiveness of element catgry (4.3.18.5) -->
<!--      - added element mrow (4.3.18.5) with its subelement -->
<!--      mi (4.3.18.5.1) to parent element catgry (4.3.18) -->

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<!--      - added element geoMap (4.3.24) -->
<!--      - renumbered nCube and all its subelements to 4.4 to -->
<!--      match new configuration -->
<!--      - deleted element timeDmns (4.4.12) -->
<!--      - renumbered nCube subelements dmns, cohort, range, -->
<!--      measure, and notes to match new sequence. Also -->
<!--      renumbered section 4 notes to 4.5 -->
<!--      - made element measure (4.4.13) optional and -->
<!--      repeatable (had previously been non-repeatable) -->
<!--      - changed declaration of attribute aggrMeth (in -->
      var 4.3 and nCube 4.4) from CDATA to
      (sum|average|count|mode|median|maximum|minimum) -->
<!--      - changed declaration of attribute nature (in var 4.3) -->
      from CDATA to (nominal|ordinal|interval|ratio) -->
<!--      - changed declaration of attribute additivity (in -->
      var 4.3 and nCube 4.4) from CDATA to (stock|flow|
      non-additive) -->
<!--      - deleted attribute "nature" from element measure -->
      (4.4.13) -->

<!-- A NOTE ON MAPPING TO DUBLIN CORE -->
<!-- Certain elements within the Dublin Core element set map directly -->
<!-- to elements in the DDI Codebook DTD, while others do not. The -->
<!-- following mapping is recommended for anyone attempting to map -->
<!-- Dublin Core element searches to electronic codebooks produced -->
<!-- using this DTD. -->
<!-- -->
<!--      DC ELEMENT      DDI Codebook Element -->
<!-- -->
<!--      Title          1.1.1.1 titl (Title of Documentation) -->
<!--      Creator        1.1.2.1 AuthEnty (Authoring Entity) -->
<!--      Subject        2.2.1.1 keyword (Keywords) -->
<!--                  2.2.1.2 topcClas (Topic Classification) -->
<!--      Description    2.2.2 abstract (Abstract) -->
<!--      Publisher      1.1.3.1 producer (Producer) -->
<!--                  [NOTE: The Dublin Core specifies that the -->
<!--                  publisher should be "the entity -->
<!--                  responsible for making the resource -->
<!--                  available *in its present form*" -->
<!--                  (emphasis added). For a DDI codebook -->
<!--                  the publisher should be the entity -->
<!--                  responsible for making the -->
<!--                  *electronic* version available. -->
<!--      Contributor    1.1.2.2 othId (Other Ident. & Acknowl.) -->
<!--      Date            1.1.3.3 prodDate (Date of Production) -->
<!--                  [NOTE: Theoretically, the DC Date element -->
<!--                  should refer to the date the -->
<!--                  electronic resource (e.g., the DDI -->
<!--                  version of the codebook) was created, -->
<!--                  not any preceding paper version.] -->
<!--      Type            DOES NOT MAP TO ANY DDI CODEBOOK ELEMENT -->
<!--                  Suggested DC Type: "Text.x-Codebook" -->
<!--      Format           DOES NOT MAP TO ANY DDI CODEBOOK ELEMENT -->
<!--                  Suggested DC Format: "text/xml" -->
<!--                  [NOTE: use of MIME type text/xml based on -->
<!--                  Internet Draft by E.J. Whitehead, Jr. -->
<!--                  of U.C. Irvine, and M. Murata, of -->
<!--                  Fuji Xerox Info. Systems.] -->
<!--      Identifier      Suggested DC Identifier: URN for DDI -->
<!--                  Codebook, if applicable. -->
<!--                  Alternatively, use the IDNo element within -->
<!--                  the Document Description citation element. -->
<!--      Source          [NOTE: If a DDI electronic codebook has been -->

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<!-- produced as the *original* -->
<!-- documentation for the data from a -->
<!-- study, the DC source element does not -->
<!-- apply. -->
<!-- If the DDI electronic codebook -->
<!-- has been derived from a pre-existing -->
<!-- version, then the DC Source -->
<!-- refers to bibliographic information -->
<!-- regarding this previous paper version. -->
<!-- In this case, Source would map to -->
<!-- the MARCURI on the docSrc element, -->
<!-- or alternatively, to the IDNo element -->
<!-- within the docSrc element. -->
<!-- [NOTE: Use of the DC Source element is -->
<!-- deprecated. The DC Relation element -->
<!-- is now preferred.] -->
<!-- Language xml:lang attribute for codeBook element -->
<!-- Relation partially maps to 1.4 docSrc (Documentation -->
<!-- Source). No mapping currently exists -->
<!-- for the relation type component. -->
<!-- Coverage 2.2.3.1 timePrd (Time Period Covered) -->
<!-- 2.2.3.2 collDate (Date of Collection) -->
<!-- 2.2.3.3 nation (Country) -->
<!-- 2.2.3.4 geogCover (Geographic Coverage) -->
<!-- 2.2.3.7 universe (Universe) -->
<!-- Rights 1.1.3.2 copyright (Copyright) -->
<!-- Dublin Core to DDI DTD mapping suggestions created 7/1/98 by -->
<!-- Jerome McDonough, U.C. Berkeley Library Systems Office. -->

<!-- ===== -->
<!-- -->
<!-- BEGINNING OF ACTUAL DOCUMENT TYPE DEFINITION -->
<!-- -->

<!--temporary parameter entities -->
<!ENTITY % a.global 'ID ID #IMPLIED
    xml-lang NMTOKEN #IMPLIED
    source (archive|producer) "producer"' >

<!-- Basic text components for adding into all mixed content models -->
<!ENTITY % a.phrase 'Link|ExtLink' >

<!-- all elements using the a.date attribute should use the ISO -->
<!-- format of YYYY-MM-DD. -->
<!ENTITY % a.date 'date CDATA #IMPLIED' >

<!ENTITY % e.cite 'titlStmt, rspStmt?, prodStmt?, distStmt?,
    serStmt?, verStmt*, biblCit?, holdings*, notes*' >

<!-- codeBook version attribute [for application processing] -->
<!ENTITY % a.version 'version CDATA #FIXED "2.0"' >

<!-- formatting elements -->
<!ENTITY % e.form 'div|emph|head|hi|itm|list|p' >

<!-- CodeBook.DTD -->
<!-- 0.0 TOP LEVEL -->
<!-- ===== -->
<!-- -->
<!ELEMENT codeBook (docDscr*

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        , stdyDscr+
        , fileDscr*
        , dataDscr*
        , otherMat*)
<!-- ATTLIST codeBook %a.global;
        %a.version;

<!--
<!-- 1.0 DOCUMENT DESCRIPTION (docDscr)
<!-- =====
<!--
<!-- The document description section of codebook DTD is intended
<!-- for information regarding the marked up document itself, rather
<!-- than the original codebook from which the electronic version
<!-- may derive. It is similar to intent to the TEI header.
<!-- Jerome McDonough, 6/15/98
<!--
<!--
<!-- The Document Description, or codebook header, consists of
<!-- bibliographic information describing the marked-up codebook, or
<!-- document instance, itself; it contains the basic elements
<!-- necessary to uniquely identify the marked-up codebook. Note that
<!-- the Document Description also contains a citation section for
<!-- the source documentation, that is, the hardcopy or electronic
<!-- codebook that served as the source for the marked-up codebook.
<!--
<!--
<!-- ELEMENT docDscr (citation?
        , guide?
        , docStatus?
        , docSrc*
        , notes*)
<!-- ATTLIST docDscr %a.global;

<!--
<!-- 1.1 BIBLIOGRAPHIC CITATION OF CODEBOOK (citation)
<!-- =====
<!--
<!-- This element encodes the bibliographic information describing
<!-- the electronic codebook, including title information, statement
<!-- of responsibility, production and distribution information,
<!-- series and version information, text of a preferred bibliog.
<!-- citation, and notes (if any). It uses generic element A.6,
<!-- found at the end of the DTD.

<!--
<!-- 1.2 GUIDE TO CODEBOOK (guide)
<!-- =====
<!--
<!-- List of terms and definitions used in the documentation.
<!-- Provided to assist users in using the document correctly.
<!-- This element was intended to reflect the section in OSIRIS
<!-- codebooks that assisted users in reading and interpreting a
<!-- codebook. Each OSIRIS codebook contained a sample codebook
<!-- page that defined the codebook conventions.
<!-- ELEMENT guide (#PCDATA | %a.phrase; | %e.form;)*
<!-- ATTLIST guide %a.global;

<!--
<!-- 1.3 DOCUMENTATION STATUS (docStatus)
<!-- =====
<!--
<!-- Use this field to indicate if the documentation is being

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<!-- presented/distributed before it has been finalized. Some data -->
<!-- producers and social science data archives employ data -->
<!-- processing strategies that provide for release of data and -->
<!-- documentation at various stages of processing. -->
<!ELEMENT docStatus (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST docStatus %a.global; >

<!-- -->
<!-- 1.4 DOCUMENTATION SOURCE (docSrc) -->
<!-- ===== -->
<!-- -->
<!-- Citation for the source of the marked-up documentation. This -->
<!-- may be either a hardcopy or a machine-readable codebook. -->
<!-- MARCURI attribute provided to give URI for MARC record for this -->
<!-- citation. -->
<!ELEMENT docSrc (%e.cite;) >
<!ATTLIST docSrc %a.global;
                MARCURI CDATA #IMPLIED >

<!-- -->
<!-- 1.5 NOTES (notes) -->
<!-- ===== -->
<!-- -->
<!-- Notes element for providing additional information -->
<!-- to clarify and annotate codebook information regarding -->
<!-- citation of the Documentation. Declaration of generic notes -->
<!-- ELEMENT occurs at the end of the DTD. Jerry McDonough -->

<!-- -->
<!-- 2.0 STUDY DESCRIPTION (stdyDscr) -->
<!-- ===== -->
<!-- -->
<!-- access attribute used to link to accCond element describing -->
<!-- access conditions for entire dataset. -->
<!ELEMENT stdyDscr (citation+
                    , stdyInfo*
                    , method*
                    , dataAccs*
                    , othrStdyMat*
                    , notes*) >
<!ATTLIST stdyDscr %a.global;
                access IDREFS #IMPLIED >

<!-- -->
<!-- 2.1 BIBLIOGRAPHIC CITATION OF STUDY (citation) -->
<!-- ===== -->
<!-- -->
<!-- The citation for the data collection documented by the -->
<!-- marked-up codebook. -->
<!-- This element encodes the bibliographic information describing -->
<!-- the original study, including title information, statement -->
<!-- of responsibility, production and distribution information, -->
<!-- series and version information, text of a preferred bibliog. -->
<!-- citation, and notes (if any). It uses generic element A.6, -->
<!-- found at the end of the DTD. -->

<!-- -->
<!-- 2.2 STUDY SCOPE (stdyInfo) -->
<!-- ===== -->
<!-- -->
<!-- This section contains information about the data collection's -->
<!-- scope across several dimensions, including substantive content, -->
<!-- geography, and time. -->

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<!-- -->
<!ELEMENT stdyInfo      (subject?
                        , abstract*
                        , sumDscr*
                        , notes*)
<!-- -->
<!-- 2.2.1 Subject Information (subject) -->
<!-- -->
<!-- Subjection information describing the data collection's -->
<!-- intellectual content. -->

<!ELEMENT subject      (keyword*
                        , topcClas*)
<!-- -->
<!-- 2.2.1.1 Keywords. -->
<!-- Words or phrases that describe salient aspects of a data -->
<!-- collection's content. Can be used for building keyword indexes -->
<!-- and for classification and retrieval purposes. A controlled -->
<!-- vocabulary can be employed. Maps to Dublin Core Subject element. -->
<!-- Inclusion of this element in the codebook is recommended. -->
<!-- vocab attribute added to specify controlled vocabulary in use, -->
<!-- e.g., LCSH, MeSH, etc. -->
<!-- vocabURI attribute added to specify location for full -->
<!-- controlled vocabulary. -->
<!ELEMENT keyword      (#PCDATA | %a.phrase; | %e.form;)*
<!-- -->
<!-- 2.2.1.2 Topic Classification. -->
<!-- The classification field indicates the broad substantive -->
<!-- topic(s) that the data cover. Library of Congress subject -->
<!-- terms may be used here. -->
<!-- PFS: This element is intended for use in coding -->
<!-- sections of codebooks that consist of nothing but -->
<!-- predesignated keywords and topic classifications. -->
<!-- There does not seem at present a way to group -->
<!-- keywords, should that be desirable. Perhaps too -->
<!-- the content model should allow -->
<!-- for surrounding "soup" (i.e. declare subject info to -->
<!-- contain #PCDATA (or higher) and/or keyword and -->
<!-- topcClas. There is no provision at present for -->
<!-- a coder to declare individual words selected by the -->
<!-- coder to act as keywords. -->
<!-- vocab attribute added to specify controlled vocabulary in use, -->
<!-- e.g., LCSH, MeSH, etc. -->
<!-- vocabURI attribute added to specify location for full -->
<!-- controlled vocabulary. -->
<!-- Maps to Dublin Core Subject element. Inclusion of this element -->
<!-- in the codebook is recommended. -->
<!ELEMENT topcClas      (#PCDATA | %a.phrase; | %e.form;)*
<!-- -->
<!-- 2.2.2 Abstract (abstract) -->
<!-- -->
<!-- An unformatted summary describing the purpose, nature, and -->
<!-- scope of the data collection, special characteristics of its -->

```

```

        contents, major subject areas covered, and what questions the
        PIs attempted to answer when they conducted the study. A
        listing of major variables in the study is important here. In
        cases where a codebook contains more than one abstract (for
        example, one might be supplied by the data producer and another
        prepared by the data archive where the data are deposited), the
        source and date attributes may be used to distinguish the
        abstract versions.
-->
<!-- Maps to Dublin Core Description element. Inclusion of this
-->
<!-- element in the codebook is recommended.
-->
<!-- Date attribute should follow ISO convention of YYYY-MM-DD.
-->
<!--
-->
<!ELEMENT abstract    (#PCDATA | %a.phrase; | %e.form;)*
-->
<!ATTLIST abstract    %a.global;
-->
                        %a.date;
-->

<!--
-->
<!-- 2.2.3 Summary Data Description (sumDscr)
-->
<!--
-->
<!-- Information about a study's chronological and geographic
-->
<!-- coverage and unit of analysis.
-->
<!--
-->
<!ELEMENT sumDscr      (timePrd*
                        , collDate*
                        , nation*
                        , geogCover*
                        , geogUnit*
                        , geoBndBox?
                        , boundPoly?
                        , anlyUnit*
                        , universe*
                        , dataKind* )
-->
<!ATTLIST sumDscr      %a.global;
-->

<!-- 2.2.3.1 Time Period Covered.
-->
<!-- The time period to which the data refer. This item reflects the
        time period covered by the data, not the dates of coding or
        making documents machine-readable or the dates the data were
        collected. Also known as span. Use the event attribute to
        specify "start", "end", or "single" for each date entered. The
        ISO standard for dates (YYYY-MM-DD) is recommended for use with
        the date attribute. Maps to Dublin Core Coverage element.
        Inclusion of this element in the codebook is recommended.
-->
<!ELEMENT timePrd      (#PCDATA | %a.phrase; | %e.form;)*
-->
<!ATTLIST timePrd
        %a.global;
        %a.date;
        event          (start|end|single)          "single"
        cycle           CDATA                      #IMPLIED
-->

<!-- 2.2.3.2 Date of Collection.
-->
<!-- Contains the date(s) when the data were collected. Use the event
        attribute to specify "start", "end", or "single" for each date
        entered. The ISO standard for dates (YYYY-MM-DD) is recommended
        for use with the date attribute.
-->
<!-- PFS: I have added an "event" attribute in order to allow
        the element to distinguish between (say) first day of
        collection, only day of collection, and last day of
        collection. See note on timePrd, which may reflect my
        misunderstanding of the intended relationship between
        these elements.
-->
<!-- Maps to Dublin Core Coverage element. Inclusion of this element
-->
<!-- in the codebook is recommended.
-->

```

```

<!ELEMENT collDate      (#PCDATA | %a.phrase; | %e.form;)*      >
<!ATTLIST collDate
    %a.global;
    %a.date;
    event          (start|end|single)          "single"
    cycle          CDATA                        #IMPLIED          >

<!-- 2.2.3.3 Country. -->
<!-- Indicates the country or countries covered in the file. -->
<!-- Attribute "abbr" added to match the attributes given to -->
<!-- agencies, etc., above, and -->
<!-- also to go some way toward providing an equivalent for -->
<!-- the TEI %placePart; entity, which adds "type" and "full" -->
<!-- attributes. -->
<!-- Maps to Dublin Core Coverage element. Inclusion of this element -->
<!-- in the codebook is recommended. -->
<!ELEMENT nation      (#PCDATA|txt|concept|%a.phrase;|%e.form;)*  >
<!ATTLIST nation
    %a.global;
    abbr          CDATA          #IMPLIED          >

<!-- 2.2.3.4 Geographic Coverage (geogCover). -->
<!-- Information on the geographic coverage of the data. Include -->
<!-- the total geographic scope of the data, and any additional -->
<!-- levels of geographic coding provided in the variables. -->
<!-- Maps to Dublin Core Coverage element. Inclusion of this element -->
<!-- in the codebook is recommended. -->
<!ELEMENT geogCover   (#PCDATA|txt|concept|%a.phrase;|%e.form;)*  >
<!ATTLIST geogCover
    %a.global;          >

<!-- 2.2.3.5 Geographic Unit. -->
<!-- Lowest level of geographic aggregation covered by the data. -->
<!ELEMENT geogUnit    (#PCDATA|txt|concept|%a.phrase;|%e.form;)*  >
<!ATTLIST geogUnit    %a.global;          >

<!-- 2.2.3.6 Geographic Bounding Box (geoBndBox) -->
<!-- The fundamental geometric description for any dataset that -->
<!-- models geography. GeoBndBox is the minimum box, defined by -->
<!-- west and east longitudes and north and south latitudes, -->
<!-- that includes the largest geographic extent of the dataset's -->
<!-- geographic coverage. This element is used in the first pass -->
<!-- of a coordinate-based search. If the boundPoly element (2.2.3.7) -->
<!-- is included, then the geoBndBox element MUST be included. -->

<!ELEMENT geoBndBox    (westBL,
                        eastBL,
                        southBL,
                        northBL)          >
<!ATTLIST geoBndBox    %a.global;          >

<!-- 2.2.3.6.1 West Bounding Longitude (westBL) -->
<!-- The westernmost coordinate delimiting the geographic extent -->
<!-- of the dataset. A valid range of values, expressed in decimal -->
<!-- degrees (positive east and positive north), is: -->
<!-- -180,0 <= West Bounding Longitude Value <= 180,0 -->

<!ELEMENT westBL      (#PCDATA | %a.phrase;)*          >
<!ATTLIST westBL      %a.global;          >

<!-- 2.2.3.6.2 East Bounding Longitude (eastBL) -->
<!-- The easternmost coordinate delimiting the geographic extent -->

```

of the dataset. A valid range of values, expressed in decimal degrees (positive east and positive north), is:

-180,0 <= East Bounding Longitude Value <= 180,0 -->

```
<!ELEMENT eastBL      (#PCDATA | %a.phrase;)*      >
<!ATTLIST eastBL      %a.global;                  >
```

<!-- 2.2.3.6.3 South Bounding Latitude (southBL) -->

<!-- The southernmost coordinate delimiting the geographic extent of the dataset. A valid range of values, expressed in decimal degrees (positive east and positive north), is:
-90,0 <= South Bounding Latitude Value <= 90,0 ;
South Bounding Latitude Value <= North Bounding Latitude Value -->

```
<!ELEMENT southBL     (#PCDATA | %a.phrase;)*      >
<!ATTLIST southBL     %a.global;                   >
```

<!-- 2.2.3.6.4 North Bounding Latitude (northBL) -->

<!-- The northernmost coordinate delimiting the geographic extent of the dataset. A valid range of values, expressed in decimal degrees (positive east and positive north), is:
-90,0 <= North Bounding Latitude Value <= 90,0 ;
North Bounding Latitude Value >= South Bounding Latitude Value -->

```
<!ELEMENT northBL     (#PCDATA | %a.phrase;)*      >
<!ATTLIST northBL     %a.global;                   >
```

<!-- 2.2.3.7 Geographic Bounding Polygon (boundPoly) -->

<!-- This field allows the creation of multiple polygons to describe in a more detailed manner the geographic area covered by the dataset. It should only be used to define the outer boundaries of a covered area. For example, in the United States, such polygons can be created to define boundaries for Hawaii, Alaska and the continental United States, but not interior boundaries for the contiguous states. This field is used to refine a coordinate-based search, not to actually map an area. If the boundPoly element is used, then geoBndBox (2.2.3.6) MUST be present, and all points enclosed by the boundPoly MUST be contained within the geoBndBox. westBL, eastBL, southBL, and northBL of the geoBndBox should each be represented in at least one point of the boundPoly description. -->

```
<!ELEMENT boundPoly    (polygon+)                  >
<!ATTLIST boundPoly    %a.global;                  >
```

<!-- 2.2.3.7.1 Polygon (polygon) -->

<!-- The minimum polygon that covers a geographical area, and is delimited by at least 4 points (3 sides), in which the last point coincides with the first point. -->

```
<!ELEMENT polygon      (point,
                        point,
                        point,
                        point+)                      >
<!ATTLIST polygon      %a.global;                  >
```

<!-- 2.2.3.7.1.1 Point (point) -->

<!-- 0-dimensional geometric primitive, representing a position, but not having extent. In this declaration, point is limited to a longitude/latitude coordinate system. -->

```

<!ELEMENT point                (gringLat,
                                gringLon)
<!ATTLIST point                %a.global;

<!-- 2.2.3.7.1.1.1 G-Ring Latitude (gringLat)
<!-- Latitude (y coordinate) of a point. Valid range expressed in
        decimal degrees is as follows:
        -90,0 to 90,0 degrees (latitude)

<!ELEMENT gringLat            (#PCDATA | %a.phrase;)*
<!ATTLIST gringLat            %a.global;

<!-- 2.2.3.7.1.1.2 G-Ring Longitude (gringLon)
<!-- Longitude (x coordinate) of a point. Valid range expressed in
        decimal degrees is as follows:
        -180,0 to 180,0 degrees (longitude)

<!ELEMENT gringLon            (#PCDATA | %a.phrase;)*
<!ATTLIST gringLon            %a.global;

<!-- 2.2.3.8 Unit of Analysis.
<!-- Basic unit of analysis or observation that the file describes:
        individuals, families/households, groups,
        institutions/organizations, administrative units, etc.
<!-- The DDI intends to prepare a controlled vocabulary for use in
<!-- this element, but it has yet to be developed. Interested
<!-- parties should refer to the DDI web page at
<!-- http://www.icpsr.umich.edu/DDI/codebook.html for information
<!-- regarding controlled vocabularies as it becomes available.
<!-- J. McDonough, 12/17/98
<!ELEMENT onlyUnit            (#PCDATA|txt|concept|%a.phrase;|%e.form;)*
<!ATTLIST onlyUnit
        %a.global;
        unit                  CDATA                  #IMPLIED

<!-- 2.2.3.9 Universe.
<!-- A description of the population covered by the data in the file;
        the group of persons or other elements that are the object of
        the study and to which the study results refer. Age, nationality,
        and residence commonly help to delineate a given universe, but
        any of a number of factors may be involved, such as age limits,
        sex, marital status, race, ethnic group, nationality, income,
        veteran status, criminal convictions, etc. The universe may
        consist of elements other than persons, such as housing units,
        court cases, deaths, countries, etc. In general, it should be
        possible to tell from the description of the universe whether a
        given individual or element (hypothetical or real) is a member
        of the population under study. Also known as universe of
        interest, population of interest, and target population. A
        "level" attribute is included to permit coding of the level to
        which universe applies, i.e., the study level, the file level
        (if different from study), or the variable level. The "clusion"
        attribute provides for specification of groups included (I)
        in or excluded (E) from the universe.
<!ELEMENT universe            (#PCDATA|txt|concept|%a.phrase;|%e.form;)*
<!ATTLIST universe
        %a.global;
        level                  CDATA                  #IMPLIED
        clusion                (I|E)                  "I"

<!-- 2.2.3.10 Kind of Data.
<!-- The type of data included in the file: survey data, census/enumeration

```

```

        data, aggregate data, clinical data, event/transaction data, program
        source code, machine-readable text, administrative records data,
        experimental data, psychological test, textual data, coded textual,
        coded documents, time budget diaries, observation data/ratings,
        process-produced data, etc. -->
<!ELEMENT dataKind      (#PCDATA|txt|concept|%a.phrase;|%e.form;)*      >
<!ATTLIST dataKind      %a.global;                                       >

<!-- -->
<!-- 2.2.4 Notes (notes) -->
<!-- -->
<!-- Notes element added 6/8/98 per DDI Committee for -->
<!-- providing additional information to -->
<!-- clarify and annotate codebook information on the scope -->
<!-- of the data collection. For declaration of generic notes -->
<!-- ELEMENT used for this tag, see the end of the DTD. jpm -->

<!-- -->
<!-- 2.3 METHODOLOGY AND PROCESSING (method) -->
<!-- ===== -->
<!-- -->
<!ELEMENT method      (dataColl*
                        , notes*
                        , onlyInfo?
                        , stdyClas?)                                       >
<!ATTLIST method      %a.global;                                       >

<!-- -->
<!-- 2.3.1 Data Collection Methodology (dataColl) -->
<!-- -->
<!ELEMENT dataColl    (timeMeth*
                        , dataCollector*
                        , frequenc*
                        , sampProc*
                        , deviat*
                        , collMode*
                        , resInstru*
                        , sources?
                        , collSitu*
                        , actMin*
                        , ConOps*
                        , weight*
                        , cleanOps*)                                       >
<!ATTLIST dataColl    %a.global;                                       >

<!-- 2.3.1.1 Time Method. -->
<!-- The time method or time dimension of the data collection, -->
<!-- e.g., panel, cross-sectional, trend, time-series, etc. -->
<!-- The DDI intends to prepare a controlled vocabulary for use in -->
<!-- this element, but it has yet to be developed. Interested -->
<!-- parties should refer to the DDI web page at -->
<!-- http://www.icpsr.umich.edu/DDI/codebook.html for information -->
<!-- regarding controlled vocabularies as it becomes available. -->
<!-- J. McDonough, 12/17/98 -->
<!-- PFS: optional "method" attribute added to -->
<!-- allow vocabulary control. -->
<!ELEMENT timeMeth    (#PCDATA|txt|concept|%a.phrase;|%e.form;)*      >
<!ATTLIST timeMeth
        %a.global;
        method          CDATA          #IMPLIED                       >

<!-- 2.3.1.2 Data Collector (dataCollector). -->
<!-- Entity (individual, agency, or institution) responsible for -->

```

```

<!-- administering the questionnaire or interview or compiling the -->
<!-- data. -->
<!ELEMENT dataCollector      (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST dataCollector
    %a.global;
    abbr          CDATA      #IMPLIED
    affiliation    CDATA      #IMPLIED >

<!-- 2.3.1.3 Frequency of Data Collection. -->
<!-- If the data collected include more than one point in time, -->
<!-- indicate the frequency with which the data were collected, -->
<!-- e.g., monthly, quarterly, etc. -->
<!-- NANMV: need controlled vocab? -->
<!-- PFS: "Freq" attribute added to allow vocab control. -->
<!ELEMENT frequenc          (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST frequenc
    %a.global;
    freq          CDATA      #IMPLIED >

<!-- 2.3.1.4 Sampling Procedure. -->
<!-- The type of sample and sample design used to select the survey -->
<!-- respondents to represent the population. May include reference -->
<!-- to the target sample size and the sampling fraction. -->
<!ELEMENT sampProc          (#PCDATA|txt|concept|%a.phrase;|%e.form;)* >
<!ATTLIST sampProc
    %a.global; >

<!-- 2.3.1.5 Major Deviations from the Sample Design. -->
<!-- Show correspondence as well as discrepancies between
    the sampled units (obtained) and available statistics
    for the population (age, sex-ratio, marital status,
    etc.) as a whole. -->
<!ELEMENT deviat            (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST deviat            %a.global; >

<!-- 2.3.1.6 Mode of Data Collection. -->
<!-- The method used to collect the data; instrumentation -->
<!-- characteristics (e.g., telephone interview, mail -->
<!-- questionnaire, etc.) -->
<!ELEMENT collMode          (#PCDATA|txt|concept|%a.phrase;|%e.form;)* >
<!ATTLIST collMode          %a.global; >

<!-- 2.3.1.7 Type of Research Instrument. -->
<!-- The type of data collection instrument used. "Structured"
    indicates an instrument in which all respondents are asked the
    same questions/tests, possibly with precoded answers. If a small
    portion of such a questionnaire includes open-ended questions,
    provide appropriate comments.
    "Semi-structured" indicates that the research instrument contains
    mainly open-ended questions. "Unstructured" indicates that in-depth
    interviews were conducted. -->
<!-- PFS: type attrib added to allow vocabulary control. -->
<!ELEMENT resInstru          (#PCDATA|txt|concept|%a.phrase;|%e.form;)* >
<!ATTLIST resInstru
    %a.global;
    type          CDATA      #IMPLIED >

<!-- 2.3.1.8 Sources Statement (sources) -->
<!-- Description of sources used for the data collection. -->
<!-- PFS: I have changed this element to make it nestable,
    so that the sources statement might encompass a series
    of discrete source statements, each of which could
    contain the facts about an individual source. -->

```



```

<!-- -->
<!ELEMENT sources      ((dataSrc*
                        , srcOrig*
                        , srcChar*
                        , srcDocu*)
                        | (sources*))
<!ATTLIST sources      %a.global;
-->

<!-- 2.3.1.8.1 Data Sources. -->
<!-- Used to list the book(s), article(s), serial(s),
      and/or machine-readable data file(s), if any, that
      served as the source(s) of the data collection. -->
<!ELEMENT dataSrc      (#PCDATA | %a.phrase; | %e.form;)*
<!ATTLIST dataSrc      %a.global;
-->

<!-- 2.3.1.8.2 Origins of Sources. -->
<!-- For historical materials, information about the origin(s) of the
      sources and the rules followed in establishing the sources
      should be specified. May not be relevant to survey data. -->
<!ELEMENT srcOrig      (#PCDATA|txt|concept|%a.phrase;%e.form;)*
<!ATTLIST srcOrig      %a.global;
-->

<!-- 2.3.1.8.3 Characteristics of Source Noted. -->
<!-- Assessment of characteristics and quality of source material.
      May not be relevant to survey data. -->
<!ELEMENT srcChar      (#PCDATA | %a.phrase; | %e.form;)*
<!ATTLIST srcChar      %a.global;
-->

<!-- 2.3.1.8.4 Documentation and Access to Sources. -->
<!-- Level of documentation of the original sources. May not be
      relevant to survey data. -->
<!ELEMENT srcDocu      (#PCDATA | %a.phrase; | %e.form;)*
<!ATTLIST srcDocu      %a.global;
-->

<!-- 2.3.1.8.5 Sources Statement (sources). -->
<!-- No element or attribute declaration here, as this sources is
      is simply a recursive declaration within sources 2.3.1.8. -->

<!-- 2.3.1.9 Characteristics of Data Collection Situation. -->
<!-- Description of noteworthy aspects of the data collection
      situation. Include information on factors such as
      cooperativeness of respondents, duration of interviews,
      number of call-backs, etc. -->
<!ELEMENT collSitu      (#PCDATA | %a.phrase; | %e.form;)*
<!ATTLIST collSitu      %a.global;
-->

<!-- 2.3.1.10 Actions to Minimize Losses. -->
<!-- Summary of actions taken to minimize data loss. Include
      information on actions such as follow-up visits, supervisory
      checks, historical matching, estimation, etc. -->
<!ELEMENT actMin        (#PCDATA | %a.phrase; | %e.form;)*
<!ATTLIST actMin        %a.global;
-->

<!-- 2.3.1.11 Control Operations. -->
<!-- Methods to facilitate data control performed by the primary
      investigator or by the data archive. -->
<!-- Specify any special programs used for such operations. -->
<!-- The ConOps element has one additional attribute, agency, which
      should be used to regard the agency which performed the control
      operation (e.g., PI, archive, etc.) -->
<!ELEMENT ConOps        (#PCDATA | %a.phrase; | %e.form;)*
<!ATTLIST ConOps        %a.global;
                        agency CDATA #IMPLIED
-->

```

```

<!-- 2.3.1.12 Weighting. -->
<!-- The use of sampling procedures may make it necessary to apply
       weights to produce accurate statistical results. Describe here
       the criteria for using weights in analysis of a collection.
       If a weighting formula or coefficient was developed, provide
       this formula, define its elements, and indicate how the
       formula is applied to data. -->
<!ELEMENT weight      (#PCDATA | %a.phrase; | %e.form;)*      >
<!ATTLIST weight      %a.global;                               >

<!-- 2.3.1.13 Cleaning Operations. -->
<!-- Methods used to "clean" the data collection,
       e.g., consistency checking, wildcode checking, etc. -->

<!ELEMENT cleanOps    (#PCDATA | %a.phrase; | %e.form;)*      >
<!ATTLIST cleanOps    %a.global;
                    agency CDATA #IMPLIED                      >

<!-- -->
<!-- 2.3.2 Study-level Error Note (notes) -->
<!-- -->
<!-- This note element should now be used for any
<!-- information annotating or clarifying the methodology
<!-- and processing of the study. For the element
<!-- declaration for this tag, see the generic note
<!-- declaration at the end of the DTD. 6/8/98 Jerry
<!-- McDonough -->

<!-- -->
<!-- 2.3.3 Data Appraisal Information (onlyInfo) -->
<!-- -->
<!ELEMENT onlyInfo    (respRate*
                      , EstSmpErr*
                      , dataAppr*)                               >
<!ATTLIST onlyInfo    %a.global;                               >

<!-- 2.3.3.1 Response Rate (respRate) -->
<!-- The percentage of sample members who provided information. -->
<!ELEMENT respRate    (#PCDATA | %a.phrase; | %e.form;)*      >
<!ATTLIST respRate    %a.global;                               >

<!-- 2.3.3.2 Estimates of Sampling Error (EstSmpErr) -->
<!-- Measure of how precisely one can estimate a population value
       from a given sample. -->
<!ELEMENT EstSmpErr   (#PCDATA | %a.phrase; | %e.form;)*      >
<!ATTLIST EstSmpErr   %a.global;                               >

<!-- 2.3.3.3 Other Forms of Data Appraisal. -->
<!-- Other issues pertaining to data appraisal. Describe here issues
       such as response variance, nonresponse rate and testing for
       bias, interviewer and response bias, confidence levels,
       question bias, etc. -->
<!ELEMENT dataAppr    (#PCDATA | %a.phrase; | %e.form;)*      >
<!ATTLIST dataAppr    %a.global;                               >

<!-- -->
<!-- 2.3.4 Class of the Study (stdyClas) -->
<!-- Generally used to give the data archive's class or study status
       number, which indicates the processing status of the study.
       May also be used as a text field to describe processing status. -->
<!-- PFS: "Type" attrib added to allow vocabulary control. -->
<!-- -->

```

```

<!ELEMENT stdyClas      (#PCDATA | %a.phrase; | %e.form;)*      >
<!ATTLIST stdyClas
    %a.global;
    type          CDATA          #IMPLIED          >

<!-- -->
<!-- 2.4 DATA ACCESS (dataAccs) -->
<!-- ===== -->
<!-- -->
<!-- This section describes access conditions and terms of use
    for the data collection. for the data collection. In cases
    where access conditions differ across individual files or
    variables, multiple access conditions can be specified. The
    access conditions applying to a study, file, variable group, or
    variable can be indicated by an IDREF attribute on the study
    (2.0), file (3.0), variable group (4.1), or variable (4.3)
    elements called "access". -->
<!ELEMENT dataAccs      (setAvail*
    , useStmt*
    , notes*)          >
<!ATTLIST dataAccs      %a.global;          >

<!-- -->
<!-- 2.4.1 Data Set Availability -->
<!-- -->
<!-- Information on availability and storage of the collection.
    The "media" attribute may be used in combination with any
    of the subelements. -->
<!ELEMENT setAvail      (accsPlac*
    , origArch?
    , avlStatus*
    , collSize?
    , complete?
    , fileQnty?
    , notes*)          >
<!ATTLIST setAvail
    %a.global;
    media          CDATA          #IMPLIED
    callno         CDATA          #IMPLIED
    label          CDATA          #IMPLIED
    type           CDATA          #IMPLIED          >

<!-- 2.4.1.1 Location. -->
<!-- Location where the data collection is currently stored. Use the -->
<!-- URI attribute to provide a URN or URL for the storage site or -->
<!-- the actual address from which the data may be downloaded. -->
<!ELEMENT accsPlac      (#PCDATA | %a.phrase; | %e.form;)*      >
<!ATTLIST accsPlac
    %a.global;
    URI            CDATA          #IMPLIED          >

<!-- 2.4.1.2 Archive Where Study Originally Stored. -->
<!-- Archive from which the data collection was obtained; the
    originating archive. -->
<!ELEMENT origArch      (#PCDATA | %a.phrase; | %e.form;)*      >
<!ATTLIST origArch      %a.global;          >

<!-- 2.4.1.3 Availability Status (avlStatus) -->
<!-- Statement of collection availability. An archive may need to
    indicate that a collection is unavailable because it is
    embargoed for a period of time, because it has been superseded,
    because a new edition is imminent, etc. -->
<!ELEMENT avlStatus     (#PCDATA | %a.phrase; | %e.form;)*      >

```

```

<!-- 2.4.1.4 Extent of Collection. -->
<!-- Summarizes the number of physical files that exist in
a collection, recording the number of files that contain
data and noting whether the collection contains machine-
readable documentation and/or other supplementary files
and information such as data dictionaries, data definition
statements, or data collection instruments. -->
<!-- NOTE: this element and 2.4.1.6(fileQty) are somewhat redundant. -->
<!-- The original intent was to have element fileQty as a subelement -->
<!-- of this element, however, restrictions on element inclusion in -->
<!-- XML apparently made this unworkable. Elements are being left -->
<!-- in parallel for the moment, per DDI Committee. 6-17-98 Jerome -->
<!-- McDonough -->
<!-- ELEMENT collSize (#PCDATA | %a.phrase; | %e.form;)* -->
<!-- ATTLIST collSize %a.global; -->

<!-- 2.4.1.5 Completeness of Study Stored. -->
<!-- This item indicates the relationship of the data collected to
the amount of data coded and stored in the data collection.
Information as to why certain items of collected information
were not included in the data file stored by the archive
should be provided. -->
<!-- ELEMENT complete (#PCDATA | %a.phrase; | %e.form;)* -->
<!-- ATTLIST complete %a.global; -->

<!-- 2.4.1.6 Number of Files. -->
<!-- Total number of physical files associated with a collection. -->
<!-- ELEMENT fileQty (#PCDATA | %a.phrase; | %e.form;)* -->
<!-- ATTLIST fileQty %a.global; -->

<!-- 2.4.1.7 Collection notes. -->
<!-- Indicate additional information regarding data availability. -->
<!-- This element uses the generic notes declaration -->
<!-- which can be found at the end of the DTD. 6-8-98, -->
<!-- Jerome McDonough -->

<!-- -->
<!-- 2.4.2 Date Use Statement (useStmt) -->
<!-- -->
<!-- Information on terms of use for the data collection. -->
<!-- -->
<!-- ELEMENT useStmt (confDec?
, specPerm?
, restrctn?
, contact*
, citReq?
, deposReq?
, conditions?
, disclaimer?) -->
<!-- ATTLIST useStmt %a.global; -->

<!-- 2.4.2.1 Confidentiality Declaration (confDec) -->
<!-- Used to tell if signing of a confidentiality declaration is -->
<!-- needed to access a resource. The required attribute is used to -->
<!-- aid machine processing of this element. The formNo attribute -->
<!-- indicates the number of the form that the user must fill out. -->
<!-- The URI attribute may be used to provide a URN or URL for online -->
<!-- access to a confidentiality declaration form. -->
<!-- ELEMENT confDec (#PCDATA | %a.phrase; | %e.form;)* -->
<!-- ATTLIST confDec %a.global;
required (yes|no) "yes"

```

formNo	CDATA	#IMPLIED	
URI	CDATA	#IMPLIED	>

```

<!-- 2.4.2.2 Special Permissions (specPerm) -->
<!-- used to tell if any special permissions are needed to access a -->
<!-- resource. The required attribute is used to -->
<!-- aid machine processing of this element. The formNo attribute -->
<!-- indicates the number of the form that the user must fill out. -->
<!-- The URI attribute may be used to provide a URN or URL for online -->
<!-- access to a special permissions form. -->
<!ELEMENT specPerm (#PCDATA | %a.phrase; | %e.form;)* >
<!-- ATTLIST specPerm %a.global;
      required (yes|no) "yes"
      formNo    CDATA    #IMPLIED
      URI       CDATA    #IMPLIED -->

<!-- 2.4.2.3 Restrictions. -->
<!-- Any restrictions on access to or use of the collection such as -->
      privacy certification or distribution restrictions. These can
      be restrictions applied by the author, producer, or disseminator
      of the data collection. If the data are restricted to only a
      certain class of user, specify which type. -->
<!ELEMENT restrctn (#PCDATA | %a.phrase; | %e.form;)* >
<!-- ATTLIST restrctn %a.global; -->

<!-- 2.4.2.4 Access Authority (contact) -->
<!-- Contact person or organization (with full address and telephone -->
      number, if available) that controls access to a collection, if
      different from the data distributor. -->
<!-- The element "contact" is declared in section A.6.4.2 -->

<!-- 2.4.2.5 Citation Requirement (citReq) -->
<!-- Text of requirement that a data collection should be cited -->
      properly in articles or other publications that are based on
      analysis of the data. -->
<!ELEMENT citReq (#PCDATA | %a.phrase; | %e.form;)* >
<!-- ATTLIST citReq %a.global; -->

<!-- 2.4.2.6 Deposit Requirement (deposReq) -->
<!-- Information regarding user responsibility for informing archives -->
      of their use of data through providing citations to the
      published work or providing copies of it. -->
<!ELEMENT deposReq (#PCDATA | %a.phrase; | %e.form;)* >
<!-- ATTLIST deposReq %a.global; -->

<!-- 2.4.2.7 Conditions (conditions) -->
<!-- Describes other use and access conditions information not -->
      covered in the other sections of accCond. -->
<!ELEMENT conditions (#PCDATA | %a.phrase; | %e.form;)* >
<!-- ATTLIST conditions %a.global; -->

<!-- 2.4.2.8 Disclaimer (disclaimer) -->
<!-- Information regarding responsibility for uses of the data -->
      collection. Example: "The original collector of the
      data, ICPSR, and the relevant funding agency bear no
      responsibility for uses of this collection or for
      interpretations or inferences based upon such uses." -->
<!ELEMENT disclaimer (#PCDATA | %a.phrase; | %e.form;)* >
<!-- ATTLIST disclaimer %a.global; -->

<!-- -->
<!-- 2.4.3 Notes (notes) -->
<!-- -->

```

```

<!-- Generic notes ELEMENT added to Data Access section -->
<!-- to enable annotation/clarification of information -->
<!-- regarding Data Access for the study. Uses generic -->
<!-- notes element defined at end of DTD. 6/8/98 jpm -->

<!-- -->
<!-- 2.5 OTHER STUDY DESCRIPTION MATERIALS -->
<!-- ===== -->
<!-- -->
<!-- Other materials relating to the study description labeled and -->
<!-- identified by the DTD Users (encoders). -->
<!-- ELEMENT othrStdyMat (relMat* -->
                        , relStdy*
                        , relPubl*
                        , othRefs*) -->
<!-- ATTLIST othrStdyMat %a.global; -->

<!-- 2.5.1 Related Materials. -->
<!-- Describe other materials related to the study description, such -->
      as appendices, additional information on sampling found in other
      documents, etc. Can take the form of bibliographic citations.
      This element can contain either PCDATA or a citation or both,
      and there can be multiple occurrences of both the citation
      and PCDATA within a single element. May consist of a single URI
      or a series of URIs comprising a series of citations/references
      to external materials which can be objects as a whole (journal
      articles) or parts of objects (chapters or appendices in articles
      or documents). -->
<!-- ELEMENT relMat (#PCDATA| %a.phrase; | citation | %e.form;)* -->
<!-- ATTLIST relMat %a.global; -->
      callno          CDATA          #IMPLIED
      label           CDATA          #IMPLIED
      media           CDATA          #IMPLIED
      type            CDATA          #IMPLIED -->

<!-- 2.5.2 Related Studies. -->
<!-- Information on the relationship of the current data -->
      file to other data files (e.g., predecessors, successors,
      sequels, abridgements) or to other editions of the same
      data file. This would include the names of additional
      data sets generated from the same data collection
      vehicle plus other data sets directed at the same
      general topic. Can take the form of bibliographic citations. -->
<!-- ELEMENT relStdy (#PCDATA| %a.phrase; | citation | %e.form;)* -->
<!-- ATTLIST relStdy %a.global; -->

<!-- 2.5.3 Related Publications (relPubl) -->
<!-- Bibliographic and access information -->
      about articles and reports based on the data in this collection.
      Can take the form of bibliographic citations. -->
<!-- ELEMENT relPubl (#PCDATA| %a.phrase; | citation | %e.form;)* -->
<!-- ATTLIST relPubl %a.global; -->

<!-- 2.5.4 Other References Note. -->
<!-- Indicate here other pertinent references. Can take the form of -->
      bibliographic citations. -->
<!-- ELEMENT othRefs (#PCDATA| %a.phrase; | citation | %e.form;)* -->
<!-- ATTLIST othRefs %a.global; -->

<!-- -->
<!-- 3.0 DATA FILES DESCRIPTION (fileDscr) -->
<!-- ===== -->
<!-- -->

```

```

<!-- Information about the data file. -->
<!-- The file description has the following additional attributes: -->
<!--     URI : a URN or URL that may be used to retrieve the file. -->
<!--     sdatrefs : summary data description references -->
<!--         records the ID values of all elements within -->
<!--         the summary data description (2.2.3) that apply -->
<!--         to this file. These elements include: time -->
<!--         period covered, date of collection, nation or -->
<!--         country, geographic coverage, geographic unit, -->
<!--         unit of analysis, universe, and kind of data. -->
<!--     methrefs : methodology and processing references -->
<!--         records the ID values of all elements within -->
<!--         the study methodology and processing section -->
<!--         (2.3) that apply to this file. -->
<!--         These elements include information on data -->
<!--         collection and data appraisal (e.g., sampling, -->
<!--         sources, weighting, data cleaning, response -->
<!--         rates, and sampling error estimates). -->
<!--     pubrefs : publication/citation references -->
<!--         records the ID values of all citation elements -->
<!--         within section 2.5 or section 6.0 that pertain -->
<!--         to this file. -->
<!--     access: access conditions references -->
<!--         records the ID values of all elements in the -->
<!--         data use statement (2.4) of the document that -->
<!--         describe access conditions for this file. -->
<!ELEMENT fileDscr      (fileTxt*, locMap?, notes*) -->
<!ATTLIST fileDscr      %a.global;
                        URI          CDATA          #IMPLIED
                        sdatrefs     IDREFS          #IMPLIED
                        methrefs     IDREFS          #IMPLIED
                        pubrefs      IDREFS          #IMPLIED
                        access       IDREFS          #IMPLIED
<!--
<!-- 3.1 FILE-BY-FILE DESCRIPTION (fileTxt) -->
<!-- ===== -->
<!-- -->
<!ELEMENT fileTxt (fileName?
                  , fileCont?
                  , fileStrc?
                  , dimensns?
                  , fileType?
                  , format?
                  , filePlac?
                  , dataChck*
                  , ProcStat?
                  , dataMsng?
                  , software*
                  , verStmt?)
<!ATTLIST fileTxt %a.global;
<!--
<!-- 3.1.1 File Name. -->
<!-- Contains a short title that will be used to distinguish a
      particular file/part from other files/parts in the data
      collection. -->
<!-- -->
<!ELEMENT fileName      (#PCDATA | %a.phrase; | %e.form;)*
<!ATTLIST fileName      %a.global;
<!--
<!-- 3.1.2 Contents of Files. -->

```

```

<!-- -->
<!-- Abstract or description of file. An unformatted summary
      describing the purpose, nature, and scope of the data file,
      special characteristics of its contents, major subject areas
      covered, and what questions the PIs attempted to answer
      when they created the file. A listing of major variables in the
      file is important here. In the case of multi-file collections,
      this uniquely describes the contents of each file. -->
<!ELEMENT fileCont      (#PCDATA | %a.phrase; | %e.form;)*      >
<!ATTLIST fileCont      %a.global;                               >

<!-- -->
<!-- 3.1.3 File Structure -->
<!-- -->
<!-- Type of file structure. Use attribute of "type" to indicate
      hierarchical, rectangular, relational or nested (the default is
      rectangular). -->
<!ELEMENT fileStrc (recGrp*
                    , notes*)                                   >
<!ATTLIST fileStrc %a.global;
                  type (rectangular|hierarchical|relational|nested)
                      "rectangular" >

<!-- 3.1.3.1 Record or Record Group (recGrp) -->
<!-- Used to describe record groupings if the file is hierarchical
      or relational. The attribute "recGrp" allows a record group to
      indicate subsidiary record groups which nest underneath; this
      allows for the encoding of a hierarchical structure of record
      groups. The attribute "rectype" indicates the type
      of record, e.g., "A records" or "Household records." "Keyvar" is
      an IDREF that provides the link to other record types. In a
      hierarchical study consisting of individual and household records,
      the "keyvar" on the person record will indicate the household
      to which it belongs. "Rtypeloc" indicates the starting column
      location of the record type indicator variable on each record of
      the data file. "Rtypewidth" specifies the width, for files with
      many different record types. "Rtypevtype" specifies the type of
      the indicator variable. The "recidvar" is the unique ID of the
      variable group itself. -->
<!ELEMENT recGrp      (labl*
                      , recDimnsn?)                             >
<!ATTLIST recGrp
      %a.global;
      recGrp          IDREFS          #IMPLIED
      rectype         CDATA           #IMPLIED
      keyvar          IDREFS          #IMPLIED
      rtypeloc        CDATA           #IMPLIED
      rtypewidth      CDATA           "1"
      rtypevtype      (numeric|character) "numeric"
      recidvar        CDATA           #IMPLIED                  >

<!-- 3.1.3.1.1 Label (of record) -->
<!-- A more descriptive specification of record group. -->
<!-- Uses generic element/attribute declaration for labl to be found -->
<!-- at end of Codebook DTD, section A.2. -->

<!-- 3.1.3.1.2 Dimensions (of record) -->
<!-- Information about the physical characteristics of the record. -->
<!-- level attribute included per DDI Comm. Instructio ns; should be -->
<!-- set to 'record'. 6-17-98 Jerome McDonough -->
<!ELEMENT recDimnsn (varQnty?
                    , caseQnty?
                    , logRecL?)                                   >

```



```

<!ATTLIST recDimnsn
    %a.global;
    level          CDATA          #IMPLIED
                                     >

<!-- 3.1.3.1.2.1 Number of variables per record (varQty) -->
<!-- Uses varQty element/attribute declaration found later in this -->
<!-- DTD (3.1.4.2). -->

<!-- 3.1.3.1.2.2 Number of cases -->
<!-- Number of records of this type. -->
<!-- Uses caseQty element/attribute declaration found later in this -->
<!-- DTD (3.1.4.1) -->

<!-- 3.1.3.1.2.3 Record Length -->
<!-- Logical record length of record, i.e., number of characters of -->
    data in the record. -->
<!-- Uses LogRecL element/attribute declaration found later in this -->
<!-- DTD (3.1.4.3) -->

<!-- 3.1.3.2 Notes (on record or record group) -->
<!-- Indicate any additional information regarding this record type. -->
<!-- Uses generic element/attribute declarations for notes found at -->
<!-- the end of the Codebook DTD, section A.4. -->

<!-- 3.1.4 File Dimensions -->
<!-- Dimensions of the overall file. -->
<!ELEMENT dimnsns (caseQty*
    , varQty*
    , logRecL*
    , recPrCas*
    , recNumTot*)
                                     >
<!ATTLIST dimnsns %a.global;
                                     >

<!-- 3.1.4.1 Overall Case Count -->
<!-- Number of cases or observations in the entire file. To be used -->
    for rectangular files only. -->
<!ELEMENT caseQty (#PCDATA | %a.phrase; | %e.form;)*
                                     >
<!ATTLIST caseQty %a.global;
                                     >

<!-- 3.1.4.2 Overall Variable Count -->
<!-- Number of variables in the entire file. To be used for -->
    rectangular files only. -->
<!ELEMENT varQty (#PCDATA | %a.phrase; | %e.form;)*
                                     >
<!ATTLIST varQty %a.global;
                                     >

<!-- 3.1.4.3 Logical Record Length -->
<!-- Logical record length of file, i.e., number of characters. -->
    To be used for rectangular files or if all records in a -->
    hierarchical file are the same length. -->
<!ELEMENT logRecL (#PCDATA | %a.phrase; | %e.form;)*
                                     >
<!ATTLIST logRecL %a.global;
                                     >

<!-- 3.1.4.4 Records per Case -->
<!-- Records per case in file. This should be used for card-image -->
    data or other files in which there are multiple records -->
    per case. -->
<!ELEMENT recPrCas (#PCDATA | %a.phrase; | %e.form;)*
                                     >
<!ATTLIST recPrCas %a.global;
                                     >

<!-- 3.1.4.5 Overall Number of records (recNumTot) -->
<!-- Overall record count in file. Use in instances such as files -->
    with multiple cards/decks or records per case. -->
<!ELEMENT recNumTot (#PCDATA | %a.phrase; | %e.form;)*
                                     >

```

```

<!-- ATTLIST recNumTot      %a.global;                                -->

<!-- 3.1.5 Type of File.                                           -->
<!-- Types of data files include raw data (ASCII, EBCDIC, etc.) and
      software-dependent files such as SAS datasets, SPSS export files,
      etc. If the data are of mixed types (e.g., ASCII and packed
      decimal), state that here. Note that the element varFormat
      (4.3.23) permits specification of the data format at the
      variable level.
      The charset attribute allows you to specify the character set
      used in the file, e.g., us-ascii, ebcdic, unicode UTF-8, etc. -->
<!-- ELEMENT fileType (#PCDATA | %a.phrase; | %e.form;)*          -->
<!-- ATTLIST fileType %a.global;
      charset      CDATA      #IMPLIED                                -->

<!-- 3.1.6 Data Format                                              -->
<!-- Physical format of the data file: Logical record length format,
      card-image format (i.e., data with multiple records per case),
      delimited format, free format, etc.                            -->
<!-- ELEMENT format      (#PCDATA | %a.phrase; | %e.form;)*        -->
<!-- ATTLIST format      %a.global;                                  -->

<!-- 3.1.7 Place of File Production.                                -->
<!-- Indicate whether file was produced at an archive or produced
      elsewhere.                                                    -->
<!-- ELEMENT filePlac (#PCDATA | %a.phrase; | %e.form;)*          -->
<!-- ATTLIST filePlac %a.global;                                    -->

<!-- 3.1.8 Extent of Processing Checks                             -->
<!-- Indicate here at the file level the types of checks and
      operations performed on the data file. A controlled vocabulary
      may be developed for this element in the future.              -->
<!-- ELEMENT dataChck (#PCDATA | %a.phrase; | %e.form;)*          -->
<!-- ATTLIST dataChck %a.global;                                    -->

<!-- 3.1.9 Processing Status (ProcStat)                            -->
<!-- Processing status of file, if part of a multi-file collection.
      Some data producers and social science data archives employ data
      processing strategies that provide for release of data and
      documentation at various stages of processing.                -->
<!-- ELEMENT ProcStat      (#PCDATA | %a.phrase; | %e.form;)*      -->
<!-- ATTLIST ProcStat      %a.global;                                -->

<!-- 3.1.10 Missing Data                                           -->
<!-- This element can be used to give general information about
      missing data, e.g., that missing data have been standardized
      across the collection, missing data are present because of
      merging, etc.                                                  -->
<!-- ELEMENT dataMsgng (#PCDATA | %a.phrase; | %e.form;)*          -->
<!-- ATTLIST dataMsgng %a.global;                                    -->

```

```

<!-- -->
<!-- 3.1.11 Software -->
<!-- -->
<!-- Software that created the file. A "version" attribute permits -->
        specification of the software version number. -->
<!-- -->
<!-- This tag uses the element/attribute declaration for software -->
<!-- which can be found in codebook DTD section A.6.3.5 -->

<!-- -->
<!-- 3.1.12 Version Statement (verStmt) -->
<!-- -->
<!-- Version statement for the data file, if one of a multi-file -->
        collection. -->
<!-- Uses generic element/attribute declaration for verStmt to be -->
<!-- found at end of Codebook DTD, section A.6.6. This tag should be -->
<!-- used for providing information regarding the version of a -->
<!-- particular file (as opposed to the documentation or the study). -->

<!-- 3.2 locMap -->
<!-- Used to describe the physical location of aggregate/tabular -->
<!-- data in cases where the nCube model is employed. -->

<!ELEMENT locMap      (dataItem*)                >
<!ATTLIST locMap      %a.global;                  >

<!-- 3.2.1 dataItem -->
<!-- -->
<!ELEMENT dataItem    (CubeCoord*, physLoc*)      >
<!ATTLIST dataItem    %a.global;
                        varRef      IDREF          #IMPLIED
                        nCubeRef     IDREF          #IMPLIED>

<!-- 3.2.1.1 CubeCoord -->
<!-- -->
<!ELEMENT CubeCoord   EMPTY                       >
<!ATTLIST CubeCoord   %a.global;
                        coordNo      CDATA          #IMPLIED
                        coordVal     CDATA          #IMPLIED
                        coordValRef   IDREF          #IMPLIED>

<!-- 3.2.1.2 physLoc -->
<!-- -->
<!ELEMENT physLoc     EMPTY                       >
<!ATTLIST physLoc     %a.global;
                        type         CDATA          #IMPLIED
                        recRef       IDREF          #IMPLIED
                        startPos     CDATA          #IMPLIED
                        width        CDATA          #IMPLIED
                        endPos       CDATA          #IMPLIED>

<!-- 3.3 Notes (notes) -->
<!-- -->
<!-- Additional information about the data file not covered in -->
        other elements. -->
<!-- This tag uses the generic element/attribute declarations -->
<!-- for notes which can be found at the end of the DTD. 6/30/98 -->
<!-- Jerome McDonough -->

<!-- -->
<!-- 4.0 VARIABLE DESCRIPTION (dataDscr) -->
<!-- ===== -->
<!-- -->

```

```

<!--ELEMENT dataDscr (varGrp* , nCubeGrp* , var* , nCube*, notes*)
<!--ATTLIST dataDscr %a.global;
-->

<!--
-->
<!-- 4.1 VARIABLE GROUP (varGrp)
-->
<!-- =====
-->
<!--
-->
<!-- A group of variables that may share a common subject,
      arise from the interpretation of a single question, or
      are linked by some other factor.
-->
<!--
-->
<!-- The variable group has the following additional attributes:
-->
<!--     type : The "type" of group attribute refers to the general
-->
<!--     type of grouping of the variables, e.g., topic, multiple
-->
<!--     response.
-->
<!--     var : The "var" reference is used to indicate all the
-->
<!--     constituent variable IDs in the group.
-->
<!--     varGrp : the "varGrp" reference is used to indicate all the
-->
<!--     subsidiary variable groups which nest underneath
-->
<!--     the current varGrp. This allows for the encoding
-->
<!--     of a hierarchical structure of variable groups.
-->
<!--     name : The unique ID for the group.
-->
<!--     sdatrefs : summary data description references -
-->
<!--     records the ID values of all elements within
-->
<!--     the summary data description (2.2.3) that apply
-->
<!--     to this variable group. These elements
-->
<!--     include: time period covered, date of
-->
<!--     collection, nation or country, geographic
-->
<!--     coverage, geographic unit, unit of analysis,
-->
<!--     universe, and kind of data.
-->
<!--     methrefs : methodology and processing references -
-->
<!--     records the ID values of all elements within
-->
<!--     the study methodology and processing section
-->
<!--     (2.3) that apply to this variable group.
-->
<!--     These elements include information on data
-->
<!--     collection and data appraisal (e.g., sampling,
-->
<!--     sources, weighting, data cleaning, response
-->
<!--     rates, and sampling error estimates).
-->
<!--     pubrefs : publication/citation references
-->
<!--     records the ID values of all citation elements
-->
<!--     within section 2.5 or section 5.0 that pertain
-->
<!--     to this variable group.
-->
<!--     access: access conditions references
-->
<!--     records the ID values of all elements in the
-->
<!--     data use statement (2.4.2) of the document that
-->
<!--     describe access conditions for this var group.
-->

<!-- Variable groups are created this way in order to permit
      variables to belong to multiple groups, including multiple
      subject groups such as a group of variables on sex and income,
      or to a subject and a multiple response group, without causing
      overlapping groups. Variables that are linked by use of the same
      question need not be identified by a Variable Group element
      because they are linked by a common unique question identifier
      in the Variable element. Note that as a result of the strict
      sequencing required by XML, all Variable Groups must be marked
      up before the Variable element is opened. That is, the mark-up
      author cannot mark up a Variable Group, then mark up
      its constituent variables, then mark up another Variable Group.
-->

<!--ELEMENT varGrp (labl*
      , txt*
      , concept*

```

```

, defntn?
, universe?
, notes*)
>
<!-- ATTLIST varGrp
    %a.global;
    type (section|multipleResp|grid|display|repetition|subject|
        version|iteration|analysis|pragmatic|record|file|
        randomized|other) "other"
    var IDREFS #IMPLIED
    varGrp IDREFS #IMPLIED
    name CDATA #IMPLIED
    sdatrefs IDREFS #IMPLIED
    methrefs IDREFS #IMPLIED
    pubrefs IDREFS #IMPLIED
    access IDREFS #IMPLIED
    nCube CDATA #IMPLIED
    >

<!-- -->
<!-- 4.1.1 Variable Group Label (labl) -->
<!-- -->
<!-- A short description of the variable group. -->
<!-- Uses generic element/attribute declaration for labl to be found -->
<!-- at the end of the Codebook DTD, section A.2. 6/30/98, -->
<!-- J. McDonough -->

<!-- -->
<!-- 4.1.2 Variable Group Text -->
<!-- -->
<!-- Lengthier description of variable group. -->
<!-- Uses generic txt element declared in A.3, later in DTD. -->
<!-- 6-8-98, Jerry McDonough -->

<!-- -->
<!-- 4.1.3 Variable Group Concept -->
<!-- -->
<!-- Defined in 4.3.21 -->

<!-- -->
<!-- 4.1.4 Variable Group Definition -->
<!-- -->
<!-- Rationale for why the variables are grouped in this way. -->
<!-- -->
<!-- ELEMENT defntn (#PCDATA | %a.phrase; | %e.form;)* >
<!-- ATTLIST defntn %a.global; >

<!-- -->
<!-- 4.1.5 Universe. -->
<!-- -->
<!-- Already declared as element "universe"
    under Study Description, 2.2.3.7. Set level attribute to assign
    to study level, variable-group level or (below)
    individual variable level. -->

<!-- -->
<!-- 4.1.6 notes. -->
<!-- -->
<!-- For clarifying information/annotation -->
<!-- regarding the variable groups. Uses the generic -->
<!-- notes ELEMENT declared at the end of the DTD. 6/8/98 -->
<!-- Jerry McDonough -->

<!-- 4.2 nCube Group (nCubeGrp) -->
<!-- A group of nCubes that may share a common subject, arise

```

```

from the interpretation of a single question, or are linked
by some other factor. This element makes it possible to identify
all nCubes derived from a single presentation table,
and to provide the original table title and universe,
as well as reference the source. Specific nesting patterns can
be noted using the attribute nCubeGrp.                                -->
<!-- Attributes:
type: refers to the general type of grouping of the nCubes.
      If nCubeGrp is used to identify all the nCubes derived
      from a single presentation table, the option "display"
      should be selected in the "type" attribute.
nCube: will contain all the IDs of the nCubes included
      in the group.
nCubeGrp: indicates the subsidiary nCube groups nested
      underneath the current nCubeGrp. This allows for the
      encoding of a hierarchical structure of nCube groups.
name: is the unique ID for the group.
sdatrefs: records the ID values of all elements within the
      summary data description (2.2.3) that apply to this
      nCube group.
methrefs: records the ID values of all elements within the study
      methodology and processing section (2.3) that apply
      to this nCube group.
pubrefs: records the ID values of all citation elements within
      section 2.5 or section 5.0 that pertain to this nCube
      group.                                                         -->
<!-- access: access conditions references. This attribute           -->
<!-- records the ID values of all elements in the                  -->
<!-- data use statement (2.4.2) of the document that              -->
<!-- describe access conditions for this nCube group.            -->
<!-- nCube groups are created in this way in order to permit nCubes
to belong to multiple groups, including multiple subject groups,
such as groups of nCubes on sex and income, or to a subject and
multiple response group, without causing the overlapping of
groups. nCubes that are linked by use of the same variable need
not be identified by an nCubeGrp element because they are already
linked by a common Variable element.                                   -->
<!ELEMENT   nCubeGrp   (labl*
                        , txt*
                        , concept*
                        , defntn?
                        , universe?
                        , notes*)                                     >

<!-- ATTLIST nCubeGrp
      %a.global;
      type          (section|multipleResp|grid|display|repetition|subject|
                     version|iteration|analysis|pragmatic|record|file|
                     randomized|other)          "other"
      nCube          IDREFS                      #IMPLIED
      nCubeGrp       IDREFS                      #IMPLIED
      name           CDATA                      #IMPLIED
      sdatrefs       IDREFS                      #IMPLIED
      methrefs       IDREFS                      #IMPLIED
      pubrefs        IDREFS                      #IMPLIED
      access         IDREFS                      #IMPLIED
>

<!-- -->
<!-- 4.2.1 nCube Group Label (labl) -->
<!-- -->
<!-- A short description of the nCube group. -->
<!-- Uses generic element/attribute declaration for labl to be found -->
<!-- at the end of the Codebook DTD, section A.2. -->

```

```

<!-- -->
<!-- 4.2.2 nCube Group Text (txt) -->
<!-- -->
<!-- Lengthier description of nCube group. -->
<!-- Uses generic txt element declared in A.3, later in DTD. -->

<!-- -->
<!-- 4.2.3 nCube Group Concept (concept) -->
<!-- -->
<!-- Defined in 4.3.21 -->

<!-- -->
<!-- 4.2.4 nCube Group Definition (defntn) -->
<!-- -->
<!-- Rationale for why the nCubes are grouped in this way. -->
<!-- Declared in 4.1.4 -->

<!-- -->
<!-- 4.2.5 nCube Group Universe (universe) -->
<!-- -->
<!-- Already declared as element "universe" -->
      under Study Description, 2.2.3.9. Set level attribute to assign
      to study level, nCube group level or (below)
      individual nCube level. -->

<!-- -->
<!-- 4.2.6 nCube Group Notes (notes) -->
<!-- -->
<!-- For clarifying information/annotation -->
<!-- regarding the nCube groups. Uses the generic -->
<!-- notes ELEMENT declared at the end of the DTD. -->

<!-- -->
<!-- 4.3 VARIABLE (var) -->
<!-- ===== -->
<!-- -->
<!-- The variable element has the following additional attributes: -->
<!--     name : The attribute "name" is a unique ID for -->
      the variable. Following the rules of many
      statistical analysis systems such as SAS and SPSS,
      names are usually up to eight characters long. -->
<!--     wgt : Whether the variable is a weight. -->
<!--     wgt-var : Reference(s) to the weight variables for this -->
      variable. -->
<!--     weight : IDREF(S) to the weight element(s) in study -->
      description (2.3.1.12) -->
<!--     qstn : Question ID for the variable. -->
<!--     files : IDREF of the file to which the variable belongs. -->
<!--     vendor : used to indicate which particular vendor's flavor -->
      of format has been used (SAS date v. SPSS date) -->
<!--     dcml : Number of decimal points in the variable. -->
<!--     intrvl : Options are discrete (default) or continuous -->
<!--     rectype : record type to which this variable belongs -->
<!--     sdatrefs : summary data description references - -->
      records the ID values of all elements within
      the summary data description (2.2.3) that apply -->
      to this variable. See Variable Group, 4.1 -->
<!--     methrefs : methodology and processing references - -->
      records the ID values of all elements within
      the study methodology and processing section -->
      (2.3) that apply to this variable. See 4.1. -->
<!--     pubrefs : publication/citation references -->
      records the ID values of all citation elements -->

```

```

<!--          within section 2.5 or section 6.0 that pertain  -->
<!--          to this variable.                                -->
<!--      access:  access conditions references                -->
<!--          records the ID values of all elements in the    -->
<!--          data use statement (2.4.2) of the document that  -->
<!--          describe access conditions for this variable.    -->
<!--      "aggrMeth" indicates the type of aggregation method used,
          for example 'sum', 'average', 'count'
          "measUnit" records the measurement unit, for example 'km',
          'miles', etc.
          "scale" records unit of scale, for example 'x1', 'x1000'
          "origin" records the point of origin for anchored scales
          "nature" records the nature of the variable, whether it is
          'nominal', 'ordinal', 'interval', or 'ratio'
          "additivity" records type of additivity such as 'stock',
          'flow', 'non-additive' -->
<!--      temporal:  a yes|no attribute indicating whether the
          variable relays time-related information.
          geog:      a yes|no attribute indicating whether the
          variable relays geographic information.
          Additional controlled vocabulary will be added at
          a later date.
          geoVocab:  records the coding scheme used in this variable
          catQty:    records the number of categories found in the
          variable. Used primarily for aggregate data files
          for verifying cell counts in nCubes. -->
<!-- Files attribute intended to link individual variables with  -->
<!-- the files where data on those variables may be found. 7/1/98, -->
<!-- J. McDonough -->
<!--ELEMENT var      (location*
          , labl*
          , imputation?
          , security?
          , embargo?
          , respUnit?
          , anlysUnit?
          , qstn*
          , valrng*
          , invalrng*
          , undocCod*
          , universe*
          , TotlResp?
          , sumStat*
          , txt*
          , stdCatgry*
          , catgryGrp*
          , catgry*
          , codInstr*
          , verStmt*
          , concept*
          , derivation?
          , varFormat?
          , geoMap*
          , notes*)
<!--ATTLIST var
      %a.global;
      name          CDATA          #REQUIRED
      wgt           (wgt|not-wgt)  "not-wgt"
      wgt-var       IDREFS          #IMPLIED
      weight        IDREFS          #IMPLIED
      qstn          IDREFS          #IMPLIED
      files         IDREFS          #IMPLIED
      vendor        CDATA          #IMPLIED

```



```

dcm1          CDATA          #IMPLIED
intrvl        (contin|discrete) "discrete"
rectype       CDATA          #IMPLIED
sdatrefs      IDREFS         #IMPLIED
methrefs      IDREFS         #IMPLIED
pubrefs       IDREFS         #IMPLIED
access        IDREFS         #IMPLIED
aggrMeth      (sum|average|count|mode|median|maximum|minimum) #IMPLIED
measUnit      CDATA          #IMPLIED
scale         CDATA          #IMPLIED
origin        CDATA          #IMPLIED
nature        (nominal|ordinal|interval|ratio)          #IMPLIED
additivity    (stock|flow|non-additive)                  #IMPLIED
temporal      (Y|N)          "N"
geog          (Y|N)          "N"
geoVocab      CDATA          #IMPLIED
catQty        CDATA          #IMPLIED
>

<!-- -->
<!-- 4.3.1 Location (location) -->
<!-- -->
<!-- This is an empty element containing only the attributes listed
below. Attributes include "StartPos" (starting position of
variable), "EndPos" (ending position of variable), "width"
(number of columns the variable occupies), "RecSegNo" (the
record segment number, deck or card number the variable is
located on), and fileid, an IDREF link to the fileDscr element
for the file that this location is within (this is necessary in
cases where the same variable may be coded in two different
files, e.g., a logical record length type file and a card image
type file). Note that if there is no width or
ending position, then the starting position should be the ordinal
position in the file, and the file would be described as
free-format. The attribute locMap is an IDRef to the element
locMap (3.2) and serves as a pointer to indicate that
the location information for the nCube's cells (aggregate
data) is located in that section. -->
<!-- -->
<!-- ELEMENT location          EMPTY          -->
<!-- ATTLIST location
      %a.global;
      StartPos      CDATA          #IMPLIED
      EndPos        CDATA          #IMPLIED
      width         CDATA          #IMPLIED
      RecSegNo      CDATA          #IMPLIED
      fileid        IDREF          #IMPLIED
      locMap        IDREF          #IMPLIED
-->
<!-- -->
<!-- 4.3.2 Variable Label -->
<!-- -->
<!-- A descriptive phrase which defines the variable.
The length of this phrase may depend on the statistical analysis
system used (e.g., some version of SAS permit 40 character
labels while some versions of SPSS permit 120 characters. -->
<!-- Use generic "labl" tag with level set to "variable." -->
<!-- Element declaration for labl may be found at end -->
<!-- of the DTD. Jerry McDonough, 6-8-98 -->
<!-- -->
<!-- 4.3.3 Imputation (imputation) -->
<!-- -->
<!-- According to the Statistical Terminology glossary maintained by
```

```

        the National Science Foundation, this is "the process by which
        one estimates missing values for items that a survey respondent
        failed to provide," and if applicable in this context, it refers
        to the type of procedure used.                                -->

<!ELEMENT imputation (#PCDATA | %a.phrase; | %e.form;)*           >
<!ATTLIST imputation %a.global;                                     >

<!-- -->
<!-- 4.3.4 Security (security)                                     -->
<!-- -->
<!-- Provides information regarding levels of access to the variable,
        e.g., public, subscriber, need to know. The ISO standard for
        dates (YYYY-MM-DD) is recommended for use with the date
        attribute.                                                  -->

<!ELEMENT security      (#PCDATA | %a.phrase; | %e.form;)*         >
<!ATTLIST security
    %a.global;
    %a.date;                                                         >

<!-- 4.3.5 Embargo (embargo)                                     -->
<!-- Provides information on variables which are not currently
        available because of policies established by the principal
        investigators and/or data producers. The ISO standard for dates
        (YYYY-MM-DD) is recommended for use with the date attribute. -->
<!ELEMENT embargo      (#PCDATA | %a.phrase; | %e.form;)*         >
<!ATTLIST embargo %a.global;
    %a.date;
    event      (notBefore|notAfter)    "notBefore"
    format     CDATA                    #IMPLIED                    >

<!-- -->
<!-- 4.3.6 Response Unit (respUnit)                               -->
<!-- -->
<!-- Describes who provided the information contained within the
        variable, e.g., respondent, proxy, interviewer             -->
<!-- -->
<!ELEMENT respUnit     (#PCDATA | %a.phrase; | %e.form;)*         >
<!ATTLIST respUnit %a.global;                                     >

<!-- -->
<!-- 4.3.7 Analysis Unit (anlysUnit)                               -->
<!-- -->
<!-- Details whom or what the variable describes.                -->
<!-- -->
<!ELEMENT analysUnit   (#PCDATA|txt|concept|%a.phrase;|%e.form;)* >
<!ATTLIST analysUnit %a.global;                                     >

<!-- -->
<!-- 4.3.8 Question.                                             -->
<!-- -->
<!-- The question element may have mixed content. The element itself
        may contain text for the question, with the subelements being
        used to provide further information about the question.
        Alternatively, the question element may be empty and only the
        subelements used. The element has a unique question ID
        attribute which can be used to link a variable with other
        variables where the same question has been asked. This would
        allow searching for all variables that share the same question
        ID perhaps because the questions was asked several times in a
        panel design. The "question" ID is a unique identifier for the
        question. "Var" is a reference to IDs of all variables relating
        to the question. "seqNo" refers to the sequence number of the
        question. The attribute sdatrefs may be used to reference

```

```

        elements in the summary data description (2.2.3) which apply to
        this question. -->
<!ELEMENT qstn      (#PCDATA | %a.phrase; | preQTxt | qstnLit | postQTxt
                    | forward | backward | ivuInstr | %e.form;)* >
<!ATTLIST qstn
    %a.global;
    qstn      IDREF      #IMPLIED
    var       IDREFS     #IMPLIED
    seqNo     CDATA      #IMPLIED
    sdatrefs  IDREFS     #IMPLIED >

<!-- 4.3.8.1 PreQuestion Text -->
<!-- Text describing a set of conditions under which a question might
        be asked. -->
<!ELEMENT preQTxt  (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST preQTxt  %a.global; >

<!-- 4.3.8.2 Literal Question -->
<!-- Text of the actual, literal question asked. -->
<!ELEMENT qstnLit  (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST qstnLit
    %a.global;
    sdatrefs      IDREFS      #IMPLIED >

<!-- 4.3.8.3 PostQuestion Text -->
<!-- Text describing what occurs after the literal question has been
        asked. -->
<!ELEMENT postQTxt (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST postQTxt %a.global; >

<!-- 4.3.8.4 Forward Progression -->
<!-- Contains a reference to IDs of possible following questions.
        The "qstn" IDREF may be used to specify the IDs. -->
<!ELEMENT forward  (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST forward  %a.global;
                    qstn  IDREFS  #IMPLIED >

<!-- 4.3.8.5 Backflow -->
<!-- Contains a reference to IDs of possible preceding questions.
        The "qstn" IDREF may be used to specify the IDs. -->
<!ELEMENT backward (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST backward %a.global;
                    qstn  IDREFS  #IMPLIED >

<!-- 4.3.8.6 Interviewer Instructions (ivuInstr) -->
<!-- Specific instructions to the individual conducting an
        interview. -->
<!ELEMENT ivuInstr (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST ivuInstr %a.global; >

<!-- -->
<!-- 4.3.9 Range of Valid Data Values (valrng) -->
<!-- -->
<!-- Values for a particular variable that represent legitimate
        responses. -->
<!-- See appendix for declarations of range, item, and key elements. -->
<!-- -->
<!ELEMENT valrng  ((range | item)+, key?, notes*) >
<!ATTLIST valrng
    %a.global; >

<!-- -->
<!-- 4.3.10 Range of Invalid Data Values (invalrng) -->

```

```

<!-- -->
<!-- Values for a particular variable -->
      that represent missing data, not applicable responses, etc.
<!-- See appendix for declarations of range, item, and key elements. -->
<!-- -->
<!ELEMENT invalrng ((range | item)+, key?, notes*) >
<!ATTLIST invalrng
      %a.global; >

<!-- -->
<!-- 4.3.11 List of Undocumented Codes (undocCod) -->
<!-- -->
<!-- Values whose meaning is unknown. -->
<!ELEMENT undocCod (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST undocCod %a.global; >

<!-- -->
<!-- 4.3.12 Universe. -->
<!-- -->
<!-- Element already declared under Study -->
      Description. Set level attribute to assign
      to study level, variable group or individual variable level. -->

<!-- 4.3.13 Total Responses (TotlResp) -->
<!-- -->
<!-- The number of responses to this variable. This element might -->
      be used if the number of responses does not match added case
      counts. It may also be used to sum the frequencies for variable -->
      categories.
<!ELEMENT TotlResp (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST TotlResp %a.global; >

<!-- -->
<!-- 4.3.14 Summary Statistics (sumStat). -->
<!-- -->
<!-- One or more statistical measures which describe the responses -->
      to a particular variable and may include one or more standard
      summaries, e.g., minimum and maximum values, etc.
<!-- Attribute weight references the weight element(s) in study -->
<!-- description (2.3.1.12). -->
<!-- -->
<!ELEMENT sumStat      (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST sumStat
      %a.global;
      wgt          (wgt|not-wgt)          "not-wgt"
      wgt-var      IDREFS                  #IMPLIED
      weight       IDREFS                  #IMPLIED
      type          (mean|medn|mode|vald|invd|min|max|stdev)
                  #REQUIRED >

<!-- -->
<!-- 4.3.15 Variable Text (txt) -->
<!-- -->
<!-- An extended description, beyond that provided in Variable Name -->
      and Label, of the variable.
<!-- Uses generic element/attribute declaration for txt which can be -->
<!-- be found at the end of the Codebook DTD. 6/30/97 J. McDonough -->

<!-- -->
<!-- 4.3.16 Standard Categories (stdCatgry) -->
<!-- -->
<!-- Standard category groups used in this variable, like industry -->
<!-- codes, employment codes, or social class codes. -->

```

```

<!-- Attribute of date provided to indicate version of code in place -->
<!-- at time of study. -->
<!-- Attribute of URI provided to indicate a URN or URL that can be -->
<!-- used to obtain the electronic form of the category groups. -->
<!ELEMENT stdCatgry (#PCDATA | %a.phrase; | %e.form;)* >
<!-- ATTLLIST stdCatgry %a.global;
          %a.date;
          URI CDATA #IMPLIED -->

<!-- -->
<!-- 4.3.17 Category Group (catgryGrp) -->
<!-- -->
<!-- A description of response categories that might be grouped
together. The attribute "missing" indicates whether this
category group contains missing data or not. The attribute
"misType" is used to specify the type of missing data, e.g.,
inap., don't know, no answer, etc. A controlled vocabulary for
"misType" will be developed in the future.
The attribute catGrp is used to indicate all the subsidiary
category groups which nest underneath the current category
group. This allows for the encoding of a hierarchical structure
of category groups. The "levelno" attribute allows the addition
of a level number, and "levelnm" allows the addition of a level
name to the category group. The completeness attribute (compl)
should be set to "false" if the category group is incomplete
(not a complete aggregate of all sub-nodes or children).
The exclusiveness attribute (excls) should be set to "false" if
the category group can appear in more than one place in the
classification hierarchy. -->
<!ELEMENT catgryGrp (labl*, catStat*, txt*) >
<!-- ATTLLIST catgryGrp %a.global;
          missing (Y|N) "N"
          misType CDATA #IMPLIED
          catgry IDREFS #IMPLIED
          catGrp IDREFS #IMPLIED
          levelno CDATA #IMPLIED
          levelnm CDATA #IMPLIED
          compl (true|false) "true"
          excls (true|false) "true" -->

<!-- 4.3.17.1 Category Group Label -->
<!-- A short description of the category group. -->
<!-- This tag uses the element/attribute declarations for the generic -->
<!-- element labl to be found at the end of the Codebook DTD, section -->
<!-- A.2. Jerome McDonough 6/22/98 -->

<!-- 4.3.17.2 Category Group Statistic (catStat) -->
<!-- See note at 4.3.18.4 -->

<!-- 4.3.17.3 Category Group Text -->
<!-- A fuller description of the category group. -->
<!-- This tag uses the element/attribute declarations for the generic -->
<!-- element txt to be found at the end of the Codebook DTD, section -->
<!-- A.3. Jerome McDonough 6/22/98 -->

<!-- -->
<!-- 4.3.18 Category (catgry) -->
<!-- -->
<!-- A description of a particular response. The attribute "missing"
indicates whether this category group contains missing data or
not. The attribute "misType" is used to specify the type of
missing data, e.g., inap., don't know, no answer, etc. A
controlled vocabulary for "misType" will be developed in the

```

future. The attribute of country allows for the denotation of country-specific category values. Sdatrefs records the ID values of all elements within the summary data description (2.2.3) that apply to this category. The exclusiveness attribute (excls) should be set to "false" if the category can appear in more than one place in the classification hierarchy. -->

```
<!ELEMENT catgry          (catValu?
                           , labl*
                           , txt*
                           , catStat*
                           , mrow?)
<!-- 4.3.18.1 Category Value -->
<!-- The explicit response. -->
<!ELEMENT catValu        (#PCDATA | %a.phrase; | %e.form;)*
<!-- 4.3.18.2 Category Label -->
<!-- A short description of the response. -->
<!-- Use generic labl tag, declared at end of DTD. -->
<!-- 4.3.18.3 Category Text -->
<!-- A fuller description of the response or an elaboration on the -->
<!-- response. -->
<!-- Use generic txt tag, declared at end of DTD. -->
<!-- 4.3.18.4 Category Statistic (catStat). -->
<!-- May include frequencies, percentages, or crosstabulation -->
<!-- results which define the category; often appears in a table. -->
<!-- The attribute "type" refers to "frequency", "percent", -->
<!-- "crosstab", etc. The URI attribute can be used to link to a -->
<!-- table. -->
<!-- The category statistic section is presumed to contain one of -->
<!-- the following: 1. textual information (e.g., PCDATA), or -->
<!-- 2. non-parseable character data (e.g., the statistics), or -->
<!-- 3. some other form of external information (table, image, etc.). -->
<!-- In the case of 1, the catStat tag can be used to markup the -->
<!-- character data. In cases 2 or 3, the element can be left -->
<!-- empty and the URI attribute used to refer to the external -->
<!-- object containing the information. Jerome McDonough 6/22/98 -->
<!ELEMENT catStat        (#PCDATA | %a.phrase; | table | %e.form;)*
<!-- 4.3.18.5 Mathematical Row (mrow) -->
<!-- mrow is a wrapper containing the presentation expression mi. It -->
<!-- creates a single string without the spaces consisting of the -->
<!-- individual elements described within it. It can be used to -->
```

```
create a single variable by concatenating other variables into
a single string. It is used to create linking variables
composed of multiple non-contiguous parts or to define unique
strings for various category values of a single variable.      -->
```

```

<!ELEMENT mrow          (mi*)
<!ATTLIST mrow          %a.global;
>
<!-- 4.3.18.5.1 Mathematical Identifier (mi)
Token element containing the smallest unit in the mrow that
carries meaning.
-->
<!ELEMENT mi            (#PCDATA | %a.phrase;)*
<!ATTLIST mi            %a.global;
                        varRef      IDREF      #REQUIRED
>
<!--
-->
<!-- 4.3.19 Coder Instructions (codInstr)
-->
<!--
-->
<!-- Any special instructions to those who converted information
from one form to another for a particular variable. This
might include the reordering of numeric information into
another form or the conversion of textual information into
numeric information.
-->
<!ELEMENT codInstr      (#PCDATA | %a.phrase; | %e.form;)*
<!ATTLIST codInstr      %a.global;
>
<!--
-->
<!-- 4.3.20 Version Statement (verStmt)
-->
<!--
-->
<!-- Version statement for the variable, if it has undergone changes.
-->
<!-- Uses generic element/declaration for verStmt which can be found
-->
<!-- at the end of the Codebook DTD. 6/30/98 J. McDonough
-->
<!--
-->
<!-- 4.3.21 Concept (concept)
-->
<!--
-->
<!-- The general subject to which this variable may be seen as
-->
<!-- pertaining. This element serves the same purpose as the
-->
<!-- keywords and topic classification elements, but at the variable
-->
<!-- level instead of the study level.
-->
<!-- The vocab attribute is provided to indicate the controlled
-->
<!-- vocabularily used in the element, if any (e.g., LCSH, Mesh, etc.)
-->
<!-- vocabURI attribute added to specify location for full
-->
<!-- controlled vocabulary.
-->
<!ELEMENT concept       (#PCDATA | %a.phrase; | %e.form;)*
<!ATTLIST concept       %a.global;
                        vocab      CDATA      #IMPLIED
                        vocabURI    CDATA      #IMPLIED
>
<!--
-->
<!-- 4.3.22 Derivation (derivation)
-->
<!--
-->
<!-- Used only in the case of derived variables, this element
-->
<!-- provides both a description of how the derivation was performed
-->
<!-- and the command used to generate the derived variable, as well
-->
<!-- as indicating the other variables in the study used to generate
-->
<!-- the derivation.
-->
<!-- The var attribute provides the ID values of the other variables
-->
<!-- in the study used to generate this derived variable.
-->
<!ELEMENT derivation     (drvdesc?, drvcmd?)
<!ATTLIST derivation     %a.global;
                        var      IDREFS      #IMPLIED

```

```

<!-- -->
<!-- 4.3.22.1 Derivation Description (drvdesc) -->
<!-- -->
<!-- A textual description of the way in which this variable was -->
<!-- derived for display to users. -->
<!ELEMENT drvdesc (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST drvdesc %a.global; >

<!-- -->
<!-- 4.3.22.2 Derivation Command (drvcmd) -->
<!-- -->
<!-- The actual command used to generate the derived variable. -->
<!-- The syntax attribute is used to indicate the command language -->
<!-- employed (e.g., SPSS, SAS, Fortran, etc.) -->
<!ELEMENT drvcmd (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST drvcmd %a.global;
syntax CDATA #IMPLIED >

<!-- -->
<!-- 4.3.23 Variable Format (format) -->
<!-- -->
<!-- format for the variable in question. Format has the following -->
<!-- attributes: -->
<!-- type: either character or numeric -->
<!-- formatname: name for the particular format, if applicable -->
<!-- schema: vendor or standards body which defines the format, -->
<!-- one of SAS, SPSS, IBM, ANSI, ISO, XML-DATA -->
<!-- category: date, time, currency, other -->
<!-- URI: network identifier for format definition -->
<!ELEMENT varFormat (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST varFormat %a.global;
type (character | numeric) "numeric"
formatname CDATA #IMPLIED
schema (SAS|SPSS|IBM|ANSI|ISO|XML-Data|other) "ISO"
category (date | time | currency | other) "other"
URI CDATA #IMPLIED >

<!-- 4.3.24 Geographic Map (geoMap)
This element is used to point (using a URI) to an external map
that is used to display the geography in question. The levelno
attribute indicates the level of the geographic hierarchy relayed
in the map. The mapformat attribute indicates the format of
the map (controlled vocabulary will be developed). -->

<!ELEMENT geoMap EMPTY >
<!ATTLIST geoMap %a.global;
URI CDATA #IMPLIED
mapformat CDATA #IMPLIED
levelno CDATA #IMPLIED >

<!-- 4.3.25 Notes -->
<!-- -->
<!-- Used to indicate additional information regarding the variable. -->
<!-- Use generic "notes" element, declared at end of DTD. -->

<!-- -->
<!-- 4.4 nCube -->
<!-- Describes the logical structure of an n-dimensional array, in
which each coordinate intersects with every other dimension at
a single point. The nCube has been designed for use in the markup
of aggregate data. This element includes the following attributes:
The attribute "name" is a unique identifier for the nCube.
Following the rules of many statistical analysis systems

```


such as SAS and SPSS, names are usually up to eight characters long. The "sdatrefs" are summary data description references which record the ID values of all elements within the summary data description section of the Study Description which might apply to the nCube. These elements include: time period covered, date of collection, nation or country, geographic coverage, geographic unit, unit of analysis, universe, and kind of data. The "methrefs" are methodology and processing references which record the ID values of all elements within the study methodology and processing section of the Study Description which might apply to the nCube. These elements include information on data collection and data appraisal (e.g., sampling, sources, weighting, data cleaning, response rates, and sampling error estimates). The "pubrefs" attribute provides a link to publication/citation references and records the ID values of all citations elements within Section 2.5 or Section 5.0 that pertain to this nCube. "Access" records the ID values of all elements in Section 2.4 of the document that describe access conditions for this nCube. "dmnsQty" notes the number of dimensions in the nCube. "cellQty" notes the total number of cells in the nCube. -->

```
<!-- -->
<!-- ELEMENT nCube (location*,
                    labl*,
                    txt*,
                    universe*,
                    imputation?,
                    security?,
                    embargo?,
                    respUnit?,
                    anlysUnit?,
                    verStmt*,
                    purpose?,
                    dmns*,
                    measure*,
                    notes*) -->
<!-- ATTLIST nCube %a.global;
                    name          CDATA          #IMPLIED
                    sdatrefs      IDREFS          #IMPLIED
                    methrefs      IDREFS          #IMPLIED
                    pubrefs       IDREFS          #IMPLIED
                    access        IDREFS          #IMPLIED
                    dmnsQty       CDATA          #IMPLIED
                    cellQty       CDATA          #IMPLIED -->

<!-- 4.4.11 purpose -->
<!-- Explains the purpose for which a particular nCube was created. -->
<!-- -->

<!-- ELEMENT purpose (#PCDATA | %a.phrase; | %e.form;)* -->
<!-- ATTLIST purpose %a.global;
                    sdatrefs      IDREFS          #IMPLIED
                    methrefs      IDREFS          #IMPLIED
                    pubrefs       IDREFS          #IMPLIED
                    URI           CDATA          #IMPLIED -->

<!-- 4.4.12 Dimension (dmns) -->
<!-- This element defines a variable as a dimension of the nCube,
and should be repeated to describe each of the cube's dimensions.
The attribute rank is used to define the coordinate order
(rank='1', rank='2', etc.). The attribute varRef is an IDREF
that points to the variable that makes up this dimension of the
```

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        nCube. -->
<!ELEMENT dmns      (cohort*) >
<!ATTLIST dmns      %a.global;
                rank      CDATA      #IMPLIED
                varRef     IDREF     #IMPLIED >

<!-- 4.4.12.1 Cohort (cohort) -->
<!-- The element cohort indicates that the nCube contains a limited
        number of categories from a particular variable, as opposed to
        the full range of categories. The attribute "catRef" is an IDREF
        to the actual category being used. "Value" indicates the actual
        value attached to the category that is being used. -->
<!ELEMENT cohort    (range*) >
<!ATTLIST cohort    %a.global;
                catRef     IDREF     #IMPLIED
                value      CDATA     #IMPLIED >

<!-- 4.4.13 measure -->
<!--The element measure indicates the measurement features of the
        cell content: type of aggregation used, measurement unit, and
        measurement scale. An origin point is recorded for anchored scales,
        to be used in determining relative movement along the scale.
        Additivity indicates whether an aggregate is a stock (like the
        population at a given point in time) or a flow (like the number of
        births or deaths over a certain period of time). The non-additive
        flag is to be used for measures that for logical reasons cannot be
        aggregated to a higher level - for instance, data that only make
        sense at a certain level of aggregation, like a classification.
        Two nCubes may be identical except for their measure - for
        example, a count of persons by age and percent of persons by age.
        "Measure" is an empty element that includes the following attributes:
        "varRef" is an IDREF.
        "aggrMeth" indicates the type of aggregation method used,
                for example 'sum', 'average', 'count'
        "measUnit" records the measurement unit, for example 'km', 'miles', etc.
        "scale" records unit of scale, for example 'x1', 'x1000'
        "origin" records the point of origin for anchored scales
        "additivity" records type of additivity such as 'stock', 'flow',
        'non-additive' -->
<!ELEMENT measure   EMPTY >
<!ATTLIST measure   %a.global;
        varRef      IDREF      #IMPLIED
        aggrMeth (sum|average|count|mode|median|maximum|minimum) #IMPLIED
        measUnit    CDATA      #IMPLIED
        scale        CDATA      #IMPLIED
        origin       CDATA      #IMPLIED
        additivity (stock|flow|non-additive) #IMPLIED >

<!-- -->
<!-- 5.0 OTHER STUDY-RELATED MATERIALS -->
<!-- ===== -->
<!-- -->
<!-- -->
<!-- -->
<!-- This section allows for the inclusion of other materials that
        are related to the study as identified and labeled by the DTD
        users (encoders). Such materials could include a bibliography,
        reports, etc. This section may serve as a "container" for other
        machine-readable materials such as data definition statements,
        PDF codebook, etc. Users should employ the URI attribute to
        indicate the location of other study-related materials. The
        "type" and "level" attributes can be used to further define
        the related materials. -->
<!-- ELEMENT declaration of otherMat may be found at end -->

```

```

<!-- of DTD. -->

<!-- Appendix A. Generic Lower-level Elements -->
<!-- ===== -->
<!-- Note that most lower-level elements of a generic sort
      are handled by the core TEI elements, especially
      those grouped together by means of the parameter
      entities #PCDATA #PCDATA #PCDATA
      and %component.seq; -->
<!-- -->
<!-- A.1 Other Material -->
<!-- Level attribute used in place of separate elements for
      'other material.' Suggested values for level include
      specifications of the item-level to which the element
      applies: e.g., level=data; level=datafile; level=studydsc;
      level=study. The URI attribute doesn't have to be used in every
      case; it's intended for capturing references to other
      materials separate from the codebook itself. -->
<!ELEMENT otherMat      (otherMat* | (labl* , txt? , notes* , table*
                           , citation?)) >
<!ATTLIST otherMat
      %a.global;
      type          CDATA          #IMPLIED
      level (data|datafile|studydsc|study) #REQUIRED
      URI           CDATA          #IMPLIED >

<!-- A.2 Label (labl) -->
<!-- Vendor attribute added (and all labels made repeatable) to -->
<!-- allow for specification of different labels for use with -->
<!-- different vendors' software. Attribute country allows
      specification of a different label by country for the same
      element to which it applies. Attribute sdatrefs allows pointing
      to specific dates, universes, or other information encoded in
      section 2.0. Country and sdatrefs are intended to cover instances
      of comparative data, by retaining consistency in some elements
      over time and geography, but altering, as appropriate, information
      pertaining to date, language, and/or location. -->
<!ELEMENT labl          (#PCDATA | %a.phrase; | %e.form;)* >
<!ATTLIST labl
      %a.global;
      level          CDATA          #IMPLIED
      vendor         CDATA          #IMPLIED
      country        CDATA          #IMPLIED
      sdatrefs       IDREFS         #IMPLIED >

<!-- A.3. Descriptive Text (txt) -->
<!-- Suggested values for Level include specifications of the
      item-level for which the text supplies a description:
      e.g., Level=record; Level=variable; level=category -->
<!ELEMENT txt          (#PCDATA | %a.phrase; | table | %e.form;)* >
<!ATTLIST txt
      %a.global;
      level          CDATA          #IMPLIED
      sdatrefs       IDREFS         #IMPLIED >

<!-- A.4. Notes and comments (notes) -->
<!ELEMENT notes        (#PCDATA | %a.phrase; | table | %e.form;)* >
<!ATTLIST notes
      %a.global;
      type          CDATA          #IMPLIED
      subject       CDATA          #IMPLIED
      level         CDATA          #IMPLIED
      resp          CDATA          #IMPLIED

```

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sdatrefs      IDREFS      #IMPLIED      >

<!-- A.5. Paragraph (p)                                -->
<!-- marks a paragraph                                -->
<!-- ELEMENT p      (#PCDATA|emph|hi|list)*            >
<!-- ATTLIST p
      %a.global;
      n      CDATA      #IMPLIED
      rend    CDATA      #IMPLIED      >

<!--
<!-- A.6 BIBLIOGRAPHIC CITATION (citation)              -->
<!-- =====                                           -->
<!--
<!-- Note: Citation elements may be found in three places in the DTD:
      (1) In the Document Description, Citation (of Documentation),
      (2) in the Document Description, Citation (of Documentation
      Source), and in the Study Description, Citation (of Study).    -->
<!-- MARCURI attribute provided to give URI for MARC record for this -->
<!-- citation.                                           -->

<!-- ELEMENT citation      (titlStmt
      , rspStmt?
      , prodStmt?
      , distStmt?
      , serStmt?
      , verStmt*
      , biblCit?
      , holdings*
      , notes*)      >
<!-- ATTLIST citation      %a.global;
      MARCURI      CDATA      #IMPLIED      >

<!--
<!-- A.6.1 Title Statement                              -->
<!--
<!-- ELEMENT titlStmt      (titl
      , subTitl*
      , altTitl*
      , parTitl*
      , IDNo*)      >
<!-- ATTLIST titlStmt      %a.global;      >

<!-- A.6.1.1 Title                                      -->
<!-- Contains the full authoritative title of the data/documentation
      The data collection title
      will in most cases be identical to the title for the
      documentation. A full title should indicate the geographic scope
      of the data collection as well as the time period covered.    -->
<!-- Maps to Dublin Core Title element. This element is required in
      the Study Description citation.                                -->
<!-- ELEMENT titl      (#PCDATA | %a.phrase; | %e.form;)*      >
<!-- ATTLIST titl      %a.global;      >

<!-- A.6.1.2 Subtitle                                  -->
<!-- A secondary title used to amplify
      or state certain limitations on the main title.                -->
<!-- ELEMENT subTitl      (#PCDATA | %a.phrase; | %e.form;)*      >
<!-- ATTLIST subTitl      %a.global;      >

<!-- A.6.1.3 Alternative Title                          -->
<!-- The alternative title may be the title by which a data
      collection is commonly referred or it may be an abbreviation for

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        the title.                                -->
<!ELEMENT altTitl      (#PCDATA | %a.phrase; | %e.form;)*  >
<!ATTLIST altTitl      %a.global;                        >

<!-- A.6.1.4 Parallel Title:                      -->
<!-- Title translated into another language.       -->
<!ELEMENT parTitl      (#PCDATA | %a.phrase; | %e.form;)*  >
<!ATTLIST parTitl      %a.global;                        >

<!-- A.6.1.5 Identification Number                -->
<!-- Unique string or number (producer's/archive's number) -->
<!ELEMENT IDNo         (#PCDATA | %a.phrase; | %e.form;)*  >
<!ATTLIST IDNo
    %a.global;
    agency          CDATA          #IMPLIED
    level           (study|file)   #IMPLIED                >

<!--
<!-- A.6.2 Responsibility Statement                -->
<!--
<!-- ELEMENT rspStmnt      (AuthEnty*
                           , othId*)                >
<!ATTLIST rspStmnt      %a.global;                  >

<!-- A.6.2.1 Authoring Entity (AuthEnty).          -->
<!-- The person, corporate body, or agency responsible for the data/
        documentation's substantive and intellectual content.
        Repeat the element for each author, and use affiliation
        attribute if available. Invert first and last name and use
        comma.                                         -->
<!-- Maps to Dublin Core Creator element. Inclusion of this element -->
<!-- in codebook is recommended.                   -->
<!--
<!-- ELEMENT AuthEnty      (#PCDATA | %a.phrase; | %e.form;)*  >
<!ATTLIST AuthEnty
    %a.global;
    affiliation      CDATA          #IMPLIED                >

<!-- A.6.2.2 Other identifications and acknowledgments -->
<!-- Give statements of responsibility not recorded in the title and -->
<!-- statement of responsibility area. Make notes on persons or -->
<!-- bodies connected with the work, or significant persons or bodies -->
<!-- connected with previous editions and not already named in the -->
<!-- description.                                         -->
<!-- Role attribute should describe individual's "job title" in -->
<!-- regards to study, e.g., data collection staff, research -->
<!-- initiator, etc. 7/2/98 J. McDonough              -->
<!-- Maps to Dublin Core Contributor element; see A NOTE ON -->
<!-- MAPPING TO DUBLIN CORE above. Inclusion of this element -->
<!-- is recommended.                                     -->

<!ELEMENT othId        (#PCDATA | %a.phrase; | %e.form;)*  >
<!ATTLIST othId
    %a.global;
    type            CDATA          #IMPLIED
    role            CDATA          #IMPLIED
    affiliation      CDATA          #IMPLIED                >

<!--
<!-- A.6.3 Production Statement (prodstmtD)        -->
<!--
<!-- ELEMENT prodStmnt      (producer*
                           , copyright?

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<!-- A.6.3.6 Funding Agency/Sponsor. -->
<!-- Indicate the source(s) of funds for the conduct of the
      research. -->
<!ELEMENT fundAg      (#PCDATA | %a.phrase; | %e.form;)*
>
<!ATTLIST fundAg
      %a.global;
      abbr          CDATA          #IMPLIED
      role          CDATA          #IMPLIED
>

<!-- A.6.3.7 Grant Number -->
<!-- The grant/contract number of the project that
      sponsored the effort. If more than one, link to the
      appropriate agency using the "agency" attribute. -->
<!ELEMENT grantNo      (#PCDATA | %a.phrase; | %e.form;)*
>
<!ATTLIST grantNo
      %a.global;
      agency          CDATA          #IMPLIED
      role            CDATA          #IMPLIED
>

<!-- -->
<!-- A.6.4 Distributor Statement -->
<!-- -->
<!ELEMENT distStmt      (distrbtr*
      , contact*
      , depositr*
      , depDate*
      , distDate?)
>
<!-- -->
<!ATTLIST distStmt      %a.global;
>

<!-- A.6.4.1 Distributor -->
<!-- A distributor is defined as the organization
      designated by the author or producer to generate
      copies of the data/documentation including any
      necessary editions or
      revisions. Names and addresses may be specified, and other
      archives may be co-distributors. -->
<!-- URI attribute for providing a URN or URL to contact ordering
      service or download facility on a website. -->
<!ELEMENT distrbtr      (#PCDATA | %a.phrase; | %e.form;)*
>
<!ATTLIST distrbtr
      %a.global;
      abbr          CDATA          #IMPLIED
      affiliation    CDATA          #IMPLIED
      URI            CDATA          #IMPLIED
>

<!-- A.6.4.2 Contact Persons -->
<!-- Names and addresses of individuals responsible for the data/
      documentation. Individuals listed as contact persons will be used
      as resource persons regarding problems or questions raised by the
      user community. -->
<!-- URI attribute used to indicate a URN or URL for the home page
      of the contact individual. email attribute used to indicate
      an e-mail address for the contact individual. -->
<!ELEMENT contact      (#PCDATA | %a.phrase; | %e.form;)*
>
<!ATTLIST contact      %a.global;
      affiliation    CDATA          #IMPLIED
      URI            CDATA          #IMPLIED
      email          CDATA          #IMPLIED
>

<!-- A.6.4.3 Depositor -->
<!-- Indicate the name of a person (or institution)
      who provided this data/documentation to the archive originally

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        storing the it.                                -->
<!ELEMENT depositr      (#PCDATA | %a.phrase; | %e.form;)*    >
<!ATTLIST depositr
    %a.global;
    abbr          CDATA          #IMPLIED
    affiliation CDATA          #IMPLIED                                >

<!-- A.6.4.4 Date of Deposit                                -->
<!-- Date that the data/documentation was deposited with the archive
        that originally received it. The ISO standard for dates
        (YYYY-MM-DD) is recommended for use with the date attribute.    -->
<!ELEMENT depDate      (#PCDATA | %a.phrase; | %e.form;)*    >
<!ATTLIST depDate      %a.global;
        %a.date;                                >

<!-- A.6.4.5 Date of Distribution                                -->
<!-- The date the data/documentation became operational in a
        computerized form and available for distribution/presentation.    -->
<!-- The ISO standard for dates (YYYY-MM-DD) is recommended for use
        with the date attribute.                                -->
<!ELEMENT distDate     (#PCDATA | %a.phrase; | %e.form;)*    >
<!ATTLIST distDate     %a.global;
        %a.date;                                >

<!--
-->
<!-- A.6.5 Series Statement                                -->
<!--
-->
<!-- URI attributed provided to point to central Internet repository
        of series information (ISO 11179)                                -->
<!ELEMENT serStmt      (serName*
        , serInfo*)                                >
<!ATTLIST serStmt      %a.global;
        URI          CDATA          #IMPLIED                                >

<!-- A.6.5.1 Series Name                                -->
<!-- The name of the data/documentation series to which the
        data/documentation belongs.                                -->
<!ELEMENT serName      (#PCDATA | %a.phrase; | %e.form;)*    >
<!ATTLIST serName
    %a.global;
    abbr          CDATA          #IMPLIED                                >

<!-- A.6.5.2 Series Information                                -->
<!-- Contains a history of the series and a summary of those
        features that apply to the series as a whole.                                -->
<!ELEMENT serInfo      (#PCDATA | %a.phrase; | %e.form;)*    >
<!ATTLIST serInfo      %a.global;                                >

<!--
-->
<!-- A.6.6 Version Statement (verStmt)                                -->
<!--
-->
<!ELEMENT verStmt      (version?
        , verResp?
        , notes*)                                >
<!ATTLIST verStmt      %a.global;                                >

<!-- A.6.6.1 Version                                -->
<!-- Also known as release or edition. If there have been substantive
        changes to the data/documentation/variable since its creation,
        this statement should be used. The ISO standard for dates
        (YYYY-MM-DD) is recommended for use with the date attribute.    -->
<!ELEMENT version      (#PCDATA | %a.phrase; | %e.form;)*    >
<!ATTLIST version

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    %a.global;
    %a.date;
    type          CDATA          #IMPLIED
>

<!-- A.6.6.2 Version Responsibility Statement -->
<!-- Used to indicate the person or organization responsible for -->
<!-- the version. -->
<!ELEMENT verResp    (#PCDATA | %a.phrase; | %e.form;)*
>
<!ATTLIST verResp    %a.global;
                affiliation    CDATA    #IMPLIED
>

<!-- -->
<!-- A.6.7 Bibliographic Citation -->
<!-- -->
<!-- Complete bibliographic reference containing all of the
        standard elements of a citation that can be used to
        cite the data/documentation. -->
<!-- Attribute of format provided to specify particular citation -->
<!-- style used, e.g., APA, MLA, Chicago, etc. -->
<!ELEMENT biblCit    (#PCDATA | %a.phrase; | %e.form;)*
>
<!ATTLIST biblCit %a.global;
                format    CDATA    #IMPLIED
>

<!-- -->
<!-- A.6.8 Holdings Information -->
<!-- -->
<!-- Provides information on either physical or electronic holdings
of the cited work. -->
<!-- Attributes include: -->
<!--     location: the physical location a copy is held -->
<!--     callno:   the call number for a work at the location -->
<!--               specified -->
<!--     uri:      A URN or URL for accessing the electronic copy -->
<!--               of the cited work -->
<!ELEMENT holdings (#PCDATA | %a.phrase; | %e.form;)*
>
<!ATTLIST holdings %a.global;
                location    CDATA    #IMPLIED
                callno      CDATA    #IMPLIED
                URI          CDATA    #IMPLIED
                media        CDATA    #IMPLIED
>

<!-- -->
<!-- A.7 Exchange Table Model (CALS) -->
<!-- -->
<!ENTITY % tbls SYSTEM "Tables.dtd">
%tbls;

<!-- -->
<!-- A.8 Variable Range (range) -->
<!-- -->
<!-- Actual range. The "UNITS" attribute of Range permits the
        specification of integer/real numbers. -->
<!-- Example: x < 1 or 10 <= x < 20 would be expressed as -->
<!-- <range maxExclusive='1' /><range min='10' maxExclusive='20' /> -->
<!ELEMENT range EMPTY
>
<!ATTLIST range %a.global;
                UNITS        (INT|REAL)    "INT"
                min          CDATA          #IMPLIED
                minExclusive CDATA          #IMPLIED
                max          CDATA          #IMPLIED
                maxExclusive CDATA          #IMPLIED
>

<!-- -->

```

```

<!-- A.9 Variable Item (item)                                -->
<!--
<!-- The counterpart to Range; used to encode individual values.
      This is an empty element consisting only of its attributes.
      The "UNITS" attribute of Range permits the specification of
      integer/real numbers.                                -->
<!ELEMENT item EMPTY                                         >
<!ATTLIST item %a.global;
              UNITS   (INT|REAL)   "INT"
              VALUE   CDATA        #REQUIRED                >

<!--
<!-- A.10 Range Key (key)                                    -->
<!--
<!-- This element permits a listing of the category values and
      labels. While this information is coded separately in the
      Category element, there may be some value in having this
      information in proximity to the range of valid and
      invalid values. A table is permissible in this element. -->
<!ELEMENT key (#PCDATA | %a.phrase; | table | %e.form;)*    >
<!ATTLIST key %a.global;                                     >

<!-- A.11 Link                                              -->
<!-- This element permits encoders to provide links from any
<!-- arbitrary element containing Link as a subelement to other
<!-- elements in the codebook. Obviously, it's based on XLink, but
<!-- loosely, cause namespaces are a nightmare to process now. -->
<!ELEMENT Link EMPTY                                         >
<!ATTLIST Link %a.global;
              refs    IDREFS       #REQUIRED
              role    CDATA        #IMPLIED
              title   CDATA        #IMPLIED                >

<!-- A.12 ExtLink                                           -->
<!-- This element permits encoders to provide links from any
<!-- arbitrary element containing ExtLink as a subelement to
<!-- electronic resources outside the codebook.             -->
<!ELEMENT ExtLink EMPTY                                       >
<!ATTLIST ExtLink %a.global;
              URI      CDATA        #REQUIRED
              role     CDATA        #IMPLIED
              title    CDATA        #IMPLIED                >

<!-- A.13 Division (div)                                    -->
<!-- formatting element: marks a subdivision in a text      -->
<!ELEMENT div          (div|head|list|p)*                    >
<!ATTLIST div          %a.global;
              n          CDATA      #IMPLIED
              rend       CDATA      #IMPLIED                >

<!-- A.14 Emphasis (emph)                                   -->
<!-- formatting element: marks words or phrases that are emphasized -->
<!-- for rhetorical effect                                   -->
<!ELEMENT emph          (#PCDATA|hi|list)*                   >
<!ATTLIST emph          %a.global;
              n          CDATA      #IMPLIED
              rend       CDATA      #IMPLIED                >

<!-- A.15 Head                                              -->
<!-- formatting element: marks off a heading to a division, list, etc. -->
<!ELEMENT head          (#PCDATA|emph|hi|list)*              >

```

```

<!-- A.16 Highlight (hi) -->
<!-- formatting element: marks a word or phrase as graphically -->
<!-- distinct from the surrounding text, while making no claim -->
<!-- for the reasons -->
<!-- ELEMENT hi (#PCDATA|emph|list)* -->
<!-- ATTLIST hi %a.global; -->
      n      CDATA      #IMPLIED
      rend    CDATA      #IMPLIED
      type    CDATA      #IMPLIED
      >

<!-- A.17 Item (itm) -->
<!-- formatting element: marks entries (items) in a list -->
<!-- ELEMENT itm (#PCDATA|emph|hi|label|list|p)* -->
<!-- ATTLIST itm %a.global; -->
      n      CDATA      #IMPLIED
      rend    CDATA      #IMPLIED
      >

<!-- A.18 List -->
<!-- formatting element: contains any sequence of items (entries) -->
<!-- organized as a list -->
<!-- ELEMENT list (head|itm|label)* -->
<!-- ATTLIST list %a.global; -->
      n      CDATA      #IMPLIED
      rend    CDATA      #IMPLIED
      type (ordered|bulleted|simple|gloss) "simple"
      >

<!-- A.19 Label -->
<!-- formatting element: contains the label associated with an item -->
<!-- in a list; in glossaries, marks the term being defined -->
<!-- ELEMENT label (#PCDATA|emph|hi)* -->
<!-- ATTLIST label %a.global; -->
      n      CDATA      #IMPLIED
      rend    CDATA      #IMPLIED
      >

<!-- -->
<!-- END OF DOCUMENT TYPE DEFINITION -->

```