TDS Data Hierarchy

27-Aug-01

<ayc 7/26/01>

Directory Structure Table (pgs. B1-2):

This table provides the details on the directory organization of each data type in the TLSCF baseline (non-test or sim) data collections. Only the types currently registered with the DOM (Distributed Object Manager) catalog are shown.

For the proper context, please refer to the figure illustrating the overall directory structure: (e.g., TDS_DIRECTORY_STRUCTURE in the TDS_INFORMATION area of the AIRS Science Team link in the Project area of the AIRS web site, www-airs.jpl.nasa.gov).

Description of Columns:

DOM Type Name: The data type as found in the DOM catalog navigator (or in the DOM catalog command line interface, that which follows the –t option).

Short name: The unique 8-char ESDT short name (in the ".met" file, corresponding to the keyword "SHORTNAME"; in DOM, the keyword "ShortName").

Dir Name: The name of the lowest level (leaf) directory in the TDS file system for this file type. This is always the Short Name lower-cased.

Bin Type: Whether the data is captured in daily or monthly bins (see Glossary at end of table).

Date Rule: Which date of the data is used to determine the date bin used (see Glossary). This prevents ambiguity in the case that the duration of a data granule straddles a bin boundary. In the DOM catalog, the actual date used corresponds to the keyword "DOMCollectionDate".

Baseline Collections: In which major directory nodes the data are expected to be found (from the set: airs/input, airs/tlscf, airs/gdaac, correl/ncep, correl/arm). Note in principle any file type could appear in a test or sim case.

Type Hierarchy Table (pgs. C1-4):

This table provide a description of the relationship between the basic types registered in the AIRS DOM (Distributed Object Manager) catalog and their super types.

This table is useful for 2 reasons:

1) Any cataloged file can be found by basing a query on its type name or that of any of its supertypes.

2) The set of catalog keywords that are available to be searched for given file type is derived from its basic type and all of its supertypes (or if you prefer, each type 'inherits' the keywords of its supertypes; and multiple inheritance is allowed).

This table is structured to allow the user to trace out the AIRS DOM type hierarchy table. The basic type names are found in the second-to-last column, while the last column gives the associated ESDT Short Name. All other cells correspond to supertypes.

To simplify the presentation, the type tree is broken down into several subtables; all subtables share the same root supertype, AIRS_DOM_File_T. For compactness, the first several supertypes in each subtable are collapsed in the upper left-corner; these are common to all elements in that subtable.

The table can be read by starting at any type cell. Traversing left gives its supertypes, while traversing right its subtypes.

The small columns marked xref are used for connecting table branches when there is more than one supertype. If a number appears to the left of a type name, this indicates that type occurs more than once in the table, but always in the same column. The xref value is unique within each column and can be used to find the duplicate entries.

The first time (moving down from the top) that a duplicated entry occurs, its subtypes are traced-out normally; after that, the subtypes are not shown, but the type is marked with an asterisk. To find the subtypes one must go up in the table to find the original occurrence.

Type names that are bold have an associated Metadata Table. These tables are also found in this document, and can be cross-referenced using the provided character identifier. Note most super types add no additional metadata; their existence is to facilitate data searching only.

Metadata Keyword Tables (pgs. D1-4):

A table of AIRS-DOM (Distributed Object Model) metadata keywords is provided for each DOM type or supertype that has explicitly associated metadata. These are the quantities that can be searched in the DOM catalog. With each table, a reference is also given to its closest non-empty supertype Table(s). A file of a given type has all the metadata associated with its direct type and its supertypes.

Note a data dictionary describing each keyword is available as a separate document.

A comment on where Keywords come from:

(1) The bulk of keywords are derived from, and are a subset of, the ECS metadata. This is the metadata found in the ".met" files that are is paired with every file received from the GDAAC, and for AIRS Products, are created by the AIRS PGEs. These include both standard metadata and mission-specific Product Specific Attributes.

Note not all the metadata from the original ".met" files are represented in DOM; a down-selection was made based on wha t users would require, and what could be readily accommodated. For example, a good deal of standard metadata is identical for each file, or are used to support ECS operations, and were omitted in the TDS DOM catalog (note however, each original ".met" file is preserved in the catalog, so this information is not lost).

(2) There is a set of keywords (the bulk of those found in the top three supertypes) that are needed for maintaining or facilitating the general use of the DOM catalog. Because the DOM catalog is derived separately from that of ECS, the ECS metadata alone is not sufficient for this purpose.

(3) There are some additional fields that are TDS-specific (most importantly to the user CollectionType, SubCollectionID, JobID, and BaselineFlag), that have been introduced to facility TDS data organization or data processing.

Type organization in directory trees <ayc 8/27/01>

AIRS PRODUCTS

DOM Type Name	Short Name	Dir Name	Bin Type	Date Rule	Baseline	Collections
L1A_AMSU_T	AIRAASCI	airaasci	D	B	airs/tlscf	airs/gdaac
L1A_HSB_T	AIRHASCI	airhasci	D	B	airs/tlscf	airs/gdaac
L1A_AIRS_Scene_T	AIRIASCI	airiasci	D	B	airs/tlscf	airs/gdaac
L1A_AIRS_Calib_T	AIRIACAL	airiacal	D	B	airs/tlscf	airs/gdaac
L1A_AIRS_HREng_T	AIRIAHRE	airiahre	D	B	airs/tlscf	airs/gdaac
L1A_AIRS_QaSub_T	AIRBAQAP	airbaqap	D	B	airs/tlscf	airs/gdaac
L1A_VIS_Scene_T	AIRVASCI	airvasci	D	B	airs/tlscf	airs/gdaac
L1A_VIS_Calib_T	AIRVACAL	airvacal	D	B	airs/tlscf	airs/gdaac
L1B_AMSU_Rad_T	AIRABRAD	airabrad	D	B	airs/tlscf	airs/gdaac
L1B_AMSU_QaSup_T	AIRABQAP	airabqap	D	B	airs/input	
L1B_HSB_Rad_T	AIRHBRAD	airhbrad	D	B	airs/tlscf	airs/gdaac
L1B_HSB_QaSup_T	AIRHBQAP	airhbqap	D	B	airs/tlscf	
L1B_AIRS_Rad_T	AIRIBRAD	airibrad	D	B	airs/tlscf	airs/gdaac
L1B_AIRS_QaSub_T	AIRIBQAP	airibqap	D	B	airs/tlscf	airs/gdaac
L1B_AIRS_BrSub_T	AIRIBCBS	airibcbs	D	B	airs/tlscf	airs/gdaac
L1B_VIS_Rad_T	AIRVBRAD	airvbrad	D	B	airs/tlscf	airs/gdaac
L1B_VIS_QaSub_T	AIRVBQAP	airvbqap	D	B	airs/tlscf	airs/gdaac
L2_RetStd_T	AIRX2RET	airx2ret	D	B	airs/tlscf	airs/gdaac
L2_CC_T	AIRI2CCF	airi2ccf	D	B	airs/tlscf	airs/gdaac
L2_RetSup_T	AIRX2SUP	airx2sup	D	B	airs/tlscf	airs/gdaac
L2_RetBrSub_T	AIRX2RBS	airx2rbs	D	B	airs/tlscf	airs/gdaac
L2_CCBrSub_T	AIRI2CBS	airi2cbs	D	B	airs/tlscf	airs/gdaac
L2_RetQa_T	AIRX2QAP	airx2qap	D	B	airs/tlscf	
L2_RetStat_T	AIRXSTAT	airxstat	D	B	airs/tlscf	
L2_RetGStat_T	AIRXGSTA	airxgsta	D	B	airs/tlscf	
Browse_L1B_AMSU_T	AIRABDBR	airabdbr	M	B	airs/tlscf	airs/gdaac
Browse_L1B_HSB_T	AIRHBDBR	airhbdbr	M	B	airs/tlscf	airs/gdaac
Browse_L1B_AIRS_T	AIRIBDBR	airibdbr	M	B	airs/tlscf	airs/gdaac
Daily_L2_RetSum_T	AIRX2ASD	airx2asd	M	B	airs/tlscf	airs/gdaac
Browse_L2_Ret_T	AIRX2DBR	airx2dbr	M	B	airs/tlscf	airs/gdaac
Browse_L2_CC_T	AIRI2DBR	airi2dbr	M	B	airs/tlscf	airs/gdaac
VIS_VegMap_T	AIRVBVID	airvbvid	M	B	airs/tlscf	airs/gdaac
VIS_VegMap10X_T	AIRVBVIM	airvbvim	M	E	airs/tlscf	airs/gdaac
Correl_RaObs_AIRS_Match_T	AIRX2MAT	airx2mat	M	E*	airs/tlscf	airs/gdaac
Correl_SurfMar_AIRS_Match_T	AIRX2MSM	airx2msm	M	B*	airs/tlscf	
Correl_ARM_AIRS_Match_T	AIRX2MAC	airx2mac	M	B*	airs/tlscf	
Correl_Fixed_AIRS_Match_T	AIRX2MTL	airx2mtl	M	B*	airs/tlscf	
Correl_Synop_AIRS_Match_T	AIRX2MSY	airx2msy	M	B*	airs/tlscf	

AIRS, eXpedited AIRS, S/C L0

DOM Type Name	Short Name	Dir Name	Bin Type	Date Rule	Baseline Collections
L0_AMSU_A1_257_No_Mode_T	AIR10XNM	air10xnm	M	B	airs/level0
L0_AMSU_A1_259_Stare1_T	AIRAACAL	airaacal	M	B	airs/level0
L0_AMSU_A1_260_Stare2_T	AIRASCAL	airascal	M	B	airs/level0
L0_AMSU_A1_261_Scan1_T	AIR10SCC	air10scc	M	B	airs/level0
L0_AMSU_A1_262_Scan2_T	AIR10SCI	air10sci	M	B	airs/level0
L0_AMSU_A2_288_No_Mode_T	AIR20XNM	air20xnm	M	B	airs/level0
L0_AMSU_A2_289_Stare_T	AIR20XSM	air20xsm	M	B	airs/level0
L0_AMSU_A2_290_Scan_T	AIR20SCI	air20sci	M	B	airs/level0
L0_HSB_342_T	AIRH0ScE	airh0sce	M	B	airs/level0
L0_AIRS_404_Scene_T	AIRB0SCI	airb0sci	M	B	airs/level0
L0_AIRS_405_Spacelook_T	AIRB0CAL	airb0cal	M	B	airs/level0
L0_AIRS_406_Radiometric_T	AIRB0CAH	airb0cah	M	B	airs/level0
L0_AIRS_407_Spectral_T	AIRB0CAP	airb0cap	M	B	airs/level0
L0_AIRS_414_HRE_Std1_T	AIRH1ENC	airh1enc	M	B	airs/level0
L0_AIRS_415_HRE_Std2_T	AIRH2ENC	airh2enc	M	B	airs/level0
L0_AIRS_416_HRE_Flex1_T	AIRH1ENG	airh1eng	M	B	airs/level0
L0_AIRS_417_HRE_Flex2_T	AIRH2ENG	airh2eng	M	B	airs/level0
L0x_AMSU_A1_257_No_Mode_T	AIR10XNX	air10xnx	M	B	airs/level0
L0x_AMSU_A1_259_Stare1_T	AIRAACAX	airaacax	M	B	airs/level0
L0x_AMSU_A1_260_Stare2_T	AIRASCAX	airascax	M	B	airs/level0
L0x_AMSU_A1_261_Scan1_T	AIR10SCX	air10scx	M	B	airs/level0
L0x_AMSU_A1_262_Scan2_T	AIR10SIX	air10six	M	B	airs/level0
L0x_AMSU_A2_288_No_Mode_T	AIR20XNX	air20xnx	M	B	airs/level0
L0x_AMSU_A2_289_Stare_T	AIR20XsX	air20xsx	M	B	airs/level0
L0x_AMSU_A2_290_Scan_T	AIR20SCX	air20scx	M	B	airs/level0
L0x_HSB_342_T	AIRH0ScX	airh0scx	M	B	airs/level0
L0x_AIRS_404_Scene_T	AIRB0SCX	airb0scx	M	B	airs/level0
L0x_AIRS_405_Spacelook_T	AIRB0CLX	airb0clx	M	B	airs/level0
L0x_AIRS_406_Radiometric_T	AIRB0CAX	airb0cax	M	B	airs/level0
L0x_AIRS_407_Spectral_T	AIRB0CPX	airb0cpx	M	B	airs/level0
L0x_AIRS_414_HRE_Std1_T	AIRH1ECX	airh1ecx	M	B	airs/level0
L0x_AIRS_415_HRE_Std2_T	AIRH2ECX	airh2ecx	M	B	airs/level0
L0x_AIRS_416_HRE_Flex1_T	AIRH1EGX	airh1egx	M	B	airs/level0
L0x_AIRS_417_HRE_Flex2_T	AIRH2EGX	airh2egx	M	B	airs/level0
SC_L0_Attitude_T	PM1ATTNR	pm1attnr	M	B	airs/level0
SC_L0_Ephemeris_T	PM1EPHND	pm1ephnd	M	B	airs/level0
SC_L0_Carryout_T	PMCO_HK	pmco_hk	M	B	airs/level0

Correlative Data

DOM Type Name	Short Name	Dirname	Bin Type	Date Rule	Baseline Collections
AVN_3Hr_Forecast_T	AVI3_ANH	avi3_anh	M	P	correl/ncep
AVN_6Hr_Forecast_T	AVI6_ANH	avi6_anh	M	P	correl/ncep
AVN_9Hr_Forecast_T	AVI9_ANH	avi9_anh	M	P	correl/ncep
Correl_RaObs_T	PREPQCH	prepqch	M	E	correl/ncep
Correl_RaObs_BUFR_T	PREPQC	prepqc	M	E	correl/ncep
Correl_RaObs_Loc_T	AIRX2LOC	airx2loc	M	E	correl/ncep
Correl_SurfMar_T	AIRX2CSM	airx2csm	M	B	correl/ncep
Correl_SurfMar_Loc_T	AIRX2LSM	airx2lsm	M	B	correl/ncep
Correl_ARM_T	AIRX2CAC	airx2cac	M	B	correl/arm
Correl_ARM_Loc_T	AIRX2LAC	airx2lac	M	B	correl/arm

Bin Type:
D: Binned Daily
M: Binned Montly

Date Rule:
B: Range Beginning Date
E: Range Ending Date
P: Predict Date (the date the prediction is for)
B*, E*: AIRS Match-Up Time Ranges are based on the nominal window of the Correlative data

AIRS TLSCF DOM Type Tree <ayc 8/06/01>

Types in Bold have associated Metadata Keywords: Table designator in ()

*denotes duplicates node described previously (find using cross-reference index in same column)

AIRS 6 Min Granule Types

DOM Super Type Hierarchy					DOM Type Name	ESDT Short Name
Any_DOM_File_T (A):						
Any_Temporal_File_T (B):						
Any_Geolocated_File_T (E):						
Any_AIRS_Suite_T (H):						
Any_AIRS_Suite_6Min_Gran_T (K)	xref		xref		xref	
	Any_L1A_T		1 Any_L1A_AMSU_T		L1A_AMSU_T	AIRAASCI
	"		2 Any_L1A_HSB_T		L1A_HSB_T	AIRHASCI
	"	**Any_L1A_VIS_IR_T (see M)**	3 **Any_L1A_IR_T (N)**		L1A_AIRS_Scene_T	AIRIASCI
	"	"	"		L1A_AIRS_Calib_T	AIRIACAL
	"	"	"	1	L1A_AIRS_HREng_T	AIRIAHRE
	"	"	"	2	L1A_AIRS_QaSub_T	AIRBAQAP
	"	"	4 **Any_L1A_VIS_T (P)**		L1A_VIS_Scene_T	AIRVASCI
	"	"	"		L1A_VIS_Calib_T	AIRVACAL
	"	"	"	1	*L1A_AIRS_HREng_T	*AIRIAHRE
	"	"	"	2	*L1A_AIRS_QaSub_T	*AIRBAQAP
	"					
	Any_L1B_T	**Any_L1B_MW_T (L)**	5 Any_L1B_AMSU_T		L1B_AMSU_Rad_T	AIRABRAD
	"	"	"		L1B_AMSU_QaSup_T	AIRABQAP
	"	"	6 Any_L1B_HSB_T		L1B_HSB_Rad_T	AIRHBRAD
	"	"	"		L1B_HSB_QaSup_T	AIRHBQAP
	"	**Any_L1B_VIS_IR_T (see M)**	7 **Any_L1B_IR_T (O)**		L1B_AIRS_Rad_T	AIRIBRAD
	"	"	"		L1B_AIRS_QaSub_T	AIRIBQAP
	"	"	"	3	L1B_AIRS_BrSub_T	AIRIBCBS
	"	"	8 **Any_L1B_VIS_T (Q)**		L1B_VIS_Rad_T	AIRVBRAD
	"	"	"		L1B_VIS_QaSub_T	AIRVBQAP
	Any_L2_T (R)		Any_L2_Standard_T		L2_RetStd_T	AIRX2RET
	"		"		L2_CC_T	AIRI2CCF
	"		Any_L2_Support_T		L2_RetSup_T	AIRX2SUP
	"		"	4	L2_RetBrSub_T	AIRX2RBS
	"		"	5	L2_CCBrSub_T	AIRI2CBS
	"		Any_L2_Debug_T		L2_RetQa_T	AIRX2QAP
	"		"		L2_RetStat_T	AIRXSTAT
	"		"		L2_RetGStat_T	AIRXGSTA
	Any_Browse_Subset_T			3	*L1B_AIRS_BrSub_T	*AIRIBCBS
	"			4	*L2_RetBrSub_T	*AIRX2RBS
	"			5	*L2_CCBrSub_T	*AIRI2CBS

AIRS Non-6 Min (Big Granule) Types

DOM Super Type Hierarchy				DOM Type Name	ESDT Short Name
Any_DOM_File_T (A):					
Any_Temporal_File_T (B):					
Any_Geolocated_File_T (E):					
Any_AIRS_Suite_T (H):	xref	xref	xref		
Any_AIRS_Suite_Non_6Min_T (I)	**Any_Browse_Daily_T (J)**			Daily_L2_RetSum_T	AIRX2ASD
"	"	Any_Browse_Package_T	Any_Browse_Package_L1B_T	6 Browse_L1B_AMSU_T	AIRABDBR
"	"	"	"	7 Browse_L1B_HSB_T	AIRHBDBR
"	"	"	"	8 Browse_L1B_AIRS_T	AIRIBDBR
"	"	"	Any_Browse_Package_L2_T	Browse_L2_Ret_T	AIRX2DBR
"	"	"	"	Browse_L2_CC_T	AIRI2DBR
"	Any_VIS_VegMap_T			VIS_VegMap_T	AIRVBVID
"	"			VIS_VegMap10X_T	AIRVBVIM
"		1 Any_Correl_Loc_T		9 Correl_RaObs_Loc_T	AIRX2LOC
"		"		10 Correl_SurfMar_Loc_T	AIRX2LSM
"		"		11 Correl_ARM_Loc_T	AIRX2LAC
"		2 **Any_Correl_AIRS_Match_T (S)**		12 Correl_RaObs_AIRS_Match_T	AIRX2MAT
"		"		13 Correl_SurfMar_AIRS_Match_T	AIRX2MSM
"		"		14 Correl_ARM_AIRS_Match_T	AIRX2MAC
"		"		15 Correl_Fixed_AIRS_Match_T	AIRX2MTL
"		"		16 Correl_Synop_AIRS_Match_T	AIRX2MSY

AIRS L1 Cross Cuts

DOM Super Type Hierarchy				DOM Type Name	ESDT Short Name
Any_DOM_File_T (A):					
Any_Temporal_File_T (B):					
Any_Geolocated_File_T (C):		xref	xref	xref	
Any_AIRS_Suite_T (H)	Any_L1_MW_T	Any_L1_AMSU_T		6 *Browse_L1B_AMSU_T	*AIRABDBR
"	"	"	1 *Any_L1A_AMSU_T		
"	"	"	5 *Any_L1B_AMSU_T		
"	"	Any_L1_HSB_T		7 *Browse_L1B_HSB_T	*AIRHBDBR
"	"	"	2 *Any_L1A_HSB_T		
"	"	"	6 *Any_L1B_HSB_T		
"	**Any_L1_VIS_IR_T (M)**	Any_L1_IR_T		8 *Browse_L1B_AIRS_T	*AIRIBDBR
"	"	"	3 ***Any_L1A_IR_T (N)**		
"	"	"	7 ***Any_L1B_IR_T (O)**		
"	"	Any_L1_VIS_T	4 ***Any_L1A_VIS_T (P)**		
"	"	"	8 ***Any_L1B_VIS_T (Q)**		

MatchUp Correlative Types

DOM Super Type Hierarchy					DOM Type Name	ESDT Short Name
Any_DOM_File_T (A):						
Any_Temporal_File_T (B):						
Any_Geolocated_File_T (E):		xref		xref	xref	
Any_Correl_T	**Any_Correl_Product_T (F)**	Any_Correl_Daily_Product ()		Any_Correl_SurfMar_T	17 Correl_SurfMar_T	AIRX2CSM
"	"	"		"	10 *Correl_SurfMar_Loc_T	*AIRX2LSM
"	"	"		"	13 *Correl_SurfMar_AIRS_Match_T	*AIRX2MSM
"	"	"		Any_Correl_Fixed_T	15 *Correl_Fixed_AIRS_Match_T	*AIRX2MTL
"	"	**Any_Correl_SubDaily_Product (G)**	9	Any_Correl_RaObs_Product_T	9 *Correl_RaObs_Loc_T	*AIRX2LOC
"	"	"		"	12 *Correl_RaObs_AIRS_Match_T	*AIRX2MAT
"	"	"		Any_Correl_ARM_T	18 Correl_ARM_T	AIRX2CAC
"	"	"		"	11 *Correl_ARM_Loc_T	*AIRX2LAC
"	"	"		"	14 *Correl_ARM_AIRS_Match_T	*AIRX2MAC
"	"	"		Any_Correl_Synop_T (T)	16 *Correl_Synop_AIRS_Match_T	*AIRX2MSY
"	"	1 *Any_Correl_Loc_T				
"	"	2 ***Any_Correl_AIRS_Match_T (S)**				
"		Any_Correl_Input_T			19 Correl_RaObs_T	PREPQCH
"		"			20 Correl_RaObs_BUFR_T	PREPQC
"		"			17 *Correl_SurfMar_T	*AIRX2CSM
"		"			18 *Correl_ARM_T	*AIRX2CAC
"		Any_Correl_RaObs_T			19 *Correl_RaObs_T	*PREPQCH
"		"			20 *Correl_RaObs_BUFR_T	*PREPQC
"		"	9	*Any_Correl_RaObs_Product_T		

Other Correlative Types

DOM Super Type Hierarchy					DOM Type Name	ESDT Short Name
Any_DOM_File_T (A):						
Any_Temporal_File_T (B):						
Any_External_PGE_Input_T:		xref		xref	xref	
Any_Dynamic_Ancillary_T		Any_AVN_T			AVN_3Hr_Forecast_T	AVI3_ANH
"		"			AVN_6Hr_Forecast_T	AVI6_ANH
"		"			AVN_9Hr_Forecast_T	AVI9_ANH

AIRS L0 Data Types

DOM Super Type Hierarchy				DOM Type Name	ESDT Short Name
Any_DOM_File_T (A):					
Any_Temporal_File_T (B):					
Any_External_PGE_Input_T:	xref	xref	xref		
Any_L0_T (C)	Any_L0_AMSU_T	Any_L0_AMSU_A1_T	21	L0_AMSU_A1_257_No_Mode_T	AIR10XNM
"	"	"	22	L0_AMSU_A1_259_Stare1_T	AIRAACAL
"	"	"	23	L0_AMSU_A1_260_Stare2_T	AIRASCAL
"	"	"	24	L0_AMSU_A1_261_Scan1_T	AIR10SCC
"	"	"	25	L0_AMSU_A1_262_Scan2_T	AIR10SCI
"	"	Any_L0_AMSU_A2_T	26	L0_AMSU_A2_288_No_Mode_T	AIR20XNM
"	"	"	27	L0_AMSU_A2_289_Stare_T	AIR20XSM
"	"	"	28	L0_AMSU_A2_290_Scan_T	AIR20SCI
"	"	Any_L0_AMSU_No_Mode_T	21	*L0_AMSU_A1_257_No_Mode_T	*AIR10XNM
"	"	"	26	*L0_AMSU_A2_288_No_Mode_T	*AIR20XNM
"	"	Any_L0_AMSU_Stare_T	22	*L0_AMSU_A1_259_Stare1_T	*AIRAACAL
"	"	"	23	*L0_AMSU_A1_260_Stare2_T	*AIRASCAL
"	"	"	27	*L0_AMSU_A2_289_Stare_T	*AIR20XSM
"	"	Any_L0_AMSU_Scan_T	24	*L0_AMSU_A1_261_Scan1_T	*AIR10SCC
"	"	"	25	*L0_AMSU_A1_262_Scan2_T	*AIR10SCI
"	"	"	28	*L0_AMSU_A2_290_Scan_T	*AIR20SCI
"	Any_L0_HSB_T			L0_HSB_342_T	AIRH0ScE
"	Any_L0_AIRS_T	Any_L0_AIRS_Scene_T		L0_AIRS_404_Scene_T	AIRB0SCI
"	"	Any_L0_AIRS_Calib_T		L0_AIRS_405_Spacelook_T	AIRB0CAL
"	"	"		L0_AIRS_406_Radiometric_T	AIRB0CAH
"	"	"		L0_AIRS_407_Spectral_T	AIRB0CAP
"	" Any_L0_AIRS_HRE_T	Any_L0_AIRS_HRE_Std_T		L0_AIRS_414_HRE_Std1_T	AIRH1ENC
"	" "	"		L0_AIRS_415_HRE_Std2_T	AIRH2ENC
"	" "	Any_L0_AIRS_HRE_Flex_T		L0_AIRS_416_HRE_Flex1_T	AIRH1ENG
"	" "	"		L0_AIRS_417_HRE_Flex2_T	AIRH2ENG

SC L0 Data Types

DOM Super Type Hierarchy		DOM Type Name	ESDT Short Name
Any_DOM_File_T (A):			
Any_Temporal_File_T (B):			
Any_External_PGE_Input_T:			
Any_Dynamic_Ancillary_T	Any_SC_L0_T	**SC_L0_Attitude_T (D)**	PM1ATTNR
"	"	SC_L0_Ephemeris_T	PM1EPHND
"	"	SC_L0_Carryout_T	PMCO_HK

AIRS Expedited L0x Data Types

DOM Super Type Hierarchy				DOM Type Name	ESDT Short Name
Any_DOM_File_T (A):					
Any_Temporal_File_T (B):					
Any_External_PGE_Input_T:	xref	xref		xref	
Any_L0x_T (C)	Any_L0x_AMSU_T	Any_L0x_AMSU_A1_T	29	L0x_AMSU_A1_257_No_Mode_T	AIR10XNX
"	"	"	30	L0x_AMSU_A1_259_Stare1_T	AIRAACAX
"	"	"	31	L0x_AMSU_A1_260_Stare2_T	AIRASCAX
"	"	"	32	L0x_AMSU_A1_261_Scan1_T	AIR10SCX
"	"	"	33	L0x_AMSU_A1_262_Scan2_T	AIR10SIX
"	"	Any_L0x_AMSU_A2_T	34	L0x_AMSU_A2_288_No_Mode_T	AIR20XNX
"	"	"	35	L0x_AMSU_A2_289_Stare_T	AIR20XsX
"	"	"	36	L0x_AMSU_A2_290_Scan_T	AIR20SCX
"	"	Any_L0x_AMSU_No_Mode_T	29	*L0x_AMSU_A1_257_No_Mode_T	*AIR10XNX
"	"	"	34	*L0x_AMSU_A2_288_No_Mode_T	*AIR20XNX
"	"	Any_L0x_AMSU_Stare_T	30	*L0x_AMSU_A1_259_Stare1_T	*AIRAACAX
"	"	"	31	*L0x_AMSU_A1_260_Stare2_T	*AIRASCAX
"	"	"	35	*L0x_AMSU_A2_289_Stare_T	*AIR20XsX
"	"	Any_L0x_AMSU_Scan_T	32	*L0x_AMSU_A1_261_Scan1_T	*AIR10SCX
"	"	"	33	*L0x_AMSU_A1_262_Scan2_T	*AIR10SIX
"	"	"	26	*L0x_AMSU_A2_290_Scan_T	*AIR20SCX
"	Any_L0x_HSB_T			L0x_HSB_342_T	AIRH0ScX
"	Any_L0x_AIRS_T	Any_L0x_AIRS_Scene_T		L0x_AIRS_404_Scene_T	AIRB0SCX
"	"	Any_L0x_AIRS_Calib_T		L0x_AIRS_405_Spacelook_T	AIRB0CLX
"	"	"		L0x_AIRS_406_Radiometric_T	AIRB0CAX
"	"	"		L0x_AIRS_407_Spectral_T	AIRB0CPX
"	" Any_L0x_AIRS_HRE_T	Any_L0x_AIRS_HRE_Std_T		L0x_AIRS_414_HRE_Std1_T	AIRH1ECX
"	" "	"		L0x_AIRS_415_HRE_Std2_T	AIRH2ECX
"	" "	Any_L0x_AIRS_HRE_Flex_T		L0x_AIRS_416_HRE_Flex1_T	AIRH1EGX
"	" "	"		L0x_AIRS_417_HRE_Flex2_T	AIRH2EGX

DOM Catalog Metadata Fields per Type
<ayc 8/06/01>

A. Any_DOM_File_T (root)	Parameter Origin
ShortName	ECS
VersionID	ECS
ProductionDatetime	ECS
TYPE_NAME	DOM
FILE_NAME	DOM
dir_path	DOM
CollectionType [gdaac, tlscf, test, sim, llevel0, corel	DOM-TDS -
DOMContainerDate (yyyy-mm-dd)	DOM-TDS
SubCollectionID	DOM-TDS
TAI_ProductionDatetime	DOM-TDS
BaselineFlag [yes, no]	DOM-TDS
IgnoreForProcessingFlag [yes, no]	DOM-TDS
DATA_SET_ID (= ShortName)	DOM-Admin
OBJECT_NAME (= FILE_NAME)	DOM-Admin
CONTAINER_NAME	DOM-Admin
filestatus	DOM-Admin
filesize	DOM-Admin
storetime	DOM-Admin
provider	DOM-Admin
checksum	DOM-Admin

↑

B. Any_Temporal_File_T	Parameter Origin
RangeBeginningDate	ECS
RangeBeginningTiime	ECS
RangeEndingDate	ECS
RangeEndingTime	ECS
UTC_start_time	DOM-TDS
TAI_start_time	DOM-TDS
UTC_stop_time	DOM-TDS
TAI_stop_time	DOM-TDS

↑

E. Any_Geolocated_File_T	Parameter Origin
EastBoundingCoordinate	ECS
WestBoundingCoordinate	ECS
SouthBoundingCoordinate	ECS
NorthBoundingCoordinate	ECS

←

C. Any_L0_T, Any_L0x_T	Parameter Origin
PDS_ID	DOM-TDS
NumberOfFiles	DOM-TDS
FileSequenceID	DOM-TDS

←

D. SC_L0_Attitude_T	Parameter Origin
QAPercentBadEphemerisData	ECS
QAPercentBadStatusWords	ECS
QAPercentMissingStatusWords	ECS

←

F. Any_Correl_Product_T	Parameter Origin
SourceTypeVariant	AIRS-PSA
SourceVersionCode (single char)	AIRS-PSA
CorrelativeDataSource	AIRS-PSA

↑

G. Any_Correl_SubDaily_Product_T	Parameter Origin
SynopticTime ("TxxZ")	AIRS-PSA

(see E: Any_Geolocated_File_T)

↑

H. Any_AIRS_Suite_T	Parameter Origin
PGEVersion	ECS
LocalVersionID	ECS
LocalGranuleID (= FILE_NAME)	ECS
ParameterName	ECS
AutomaticQualityFlag	ECS
[Passed, Failed, Suspect]	-
AutomaticQualityFlagExplanation	ECS
QAPercentMissingData	ECS
ProductGenerationFacility [G,A,S,T,X]	AIRS-PSA
AIRSGranuleCycleNumber	AIRS-PSA
NumBadData	AIRS-PSA
NumSpecialData	AIRS-PSA
NumProcessData	AIRS-PSA
NumMissingData	AIRS-PSA
NumTotalData	AIRS-PSA
NumFpe	AIRS-PSA
JobID	DOM-TDS

←

I. Any_AIRS_Suite_Non_6Min_T	Parameter Origin
InputGranuleCount	AIRS-PSA

↑

J. Any_Browse_Daily_T	Parameter Origin
DayNightFlag [Day, Night, Both, NA]	ECS
NodeType [Ascending, Descending	AIRS-PSA
NorthPole, SouthPole, Unknown]	-

←

K. Any_AIRS_Suite_6Min_Gran_T	Parameter Origin
DayNightFlag [Day, Night, Both, NA]	ECS
StartOrbitNumber	ECS
StopOrbitNumber	ECS
EquatorCrossingDate	ECS
EquatorCrossingTime	ECS
EquatorCrossingLongitude	ECS
AIRSGranuleNumber	AIRS-PSA
OrbitPath	AIRS-PSA
ScanLineCount	AIRS-PSA
LatGranuleCen	AIRS-PSA
LonGranuleCen	AIRS-PSA
LocTimeGranuleCen	AIRS-PSA
NumLandSurface	AIRS-PSA
NumOceanSurface	AIRS-PSA
NumGeoQA	AIRS-PSA
NumSunGlint	AIRS-PSA
NodeType [Ascending, Descending	AIRS-PSA
NorthPole, SouthPole, Unknown]	-

→

L. Any_L1B_MW_T	Parameter Origin
MoonInViewMWCount	AIRS-PSA

→

M. Any_L1_VIS_IR_T	Parameter Origin
CalibrationMode	AIRS-PSA
EngDataFormatPacket1	AIRS-PSA
EngDataFormatPacket2	AIRS-PSA
UnProcessedEDF1	AIRS-PSA
UnProcessedEDF2	AIRS-PSA

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↑ ←

P. Any_L1A_VIS_T	Parameter Origin
PhotoCalibrationOn [TRUE, FALSE]	AIRS-PSA

↑

N. Any_L1A_IR_T	Parameter Origin
DCRCount	AIRS-PSA

↑ ←

Q. Any_L1B_VIS_T	Parameter Origin
PhotoCalibrationOn	AIRS-PSA
VISDarkAMSUFOVCount	AIRS-PSA
VISBrightAMSUFOVCount	AIRS-PSA

↑

→

O. Any_L1B_IR_T	Parameter Origin
DCRCount	AIRS-PSA
PopCount	AIRS-PSA

(see F. Any_Correl_Product_T)

(see I: Any_AIRS_Suite_Non_6Min_T)

(see K. Any_AIRS_Suite_6Min_Gran_T)

R. Any_L2_T	Parameter Origin
VersionRetrieval	AIRS-PSA
NumBadL1B	AIRS-PSA
NumBadL1BAMSU	AIRS-PSA
NumBadL1BHSB	AIRS-PSA
NumBadL1BAIRS	AIRS-PSA
NumBadL1BVIS	AIRS-PSA
NumNoPsurfGuess	AIRS-PSA
NumNoTuning	AIRS-PSA
NumNoAngCorr	AIRS-PSA
NumPrecipMW	AIRS-PSA
NumCloudIceMW	AIRS-PSA
NumClearMW	AIRS-PSA
NumClearIR	AIRS-PSA
NumClearVis	AIRS-PSA
NumCloudyVis	AIRS-PSA
NumLowCloudVis	AIRS-PSA
NumMWStratIRRetOnly	AIRS-PSA
NumVisInvalid	AIRS-PSA
NumRetInvalid	AIRS-PSA
QAPercentCloudCover	AIRS-PSA
DCRCount	AIRS-PSA
PopCount	AIRS-PSA
MoonInViewMWCount	AIRS-PSA
VISDarkAMSUFOVCount	AIRS-PSA
VISBrightAMSUFOVCount	AIRS-PSA

S. Any_Correl_AIRS_Match_T	Parameter Origin
VersionRetrieval	AIRS-PSA
NumBadL1B	AIRS-PSA
NumBadL1BAMSU	AIRS-PSA
NumBadL1BHSB	AIRS-PSA
NumBadL1BAIRS	AIRS-PSA
NumBadL1BVIS	AIRS-PSA
NumNoPsurfGuess	AIRS-PSA
NumNoTuning	AIRS-PSA
NumNoAngCorr	AIRS-PSA
NumPrecipMW	AIRS-PSA
NumCloudIceMW	AIRS-PSA
NumClearMW	AIRS-PSA
NumClearIR	AIRS-PSA
NumClearVis	AIRS-PSA
NumCloudyVis	AIRS-PSA
NumLowCloudVis	AIRS-PSA
NumMWStratIRRetOnly	AIRS-PSA
NumVisInvalid	AIRS-PSA
NumRetInvalid	AIRS-PSA
NumLandSurface	AIRS-PSA
NumOceanSurface	AIRS-PSA
NumGeoQA	AIRS-PSA
NumSunGlint	AIRS-PSA
TruthMatchesCount	AIRS-PSA
NumRetMatches	AIRS-PSA
L2ProcessedFlag [TRUE, FALSE]	AIRS-PSA
MatchupLevel [L1BMW, L1B, L2]	AIRS-PSA

Description of Parameter Origin

Origin	Description
ECS	ECS Standard Metadata
AIRS-PSA	ECS AIRS Product Specific Attributes
DOM	DOM-Only Metadata; of General Interest
DOM-TDS	DOM-Only Metadata; to Support AIRS TDS/TLSCF
DOM-Admin	DOM-Only Metadata; Mainly for Cat Administration