

Table. 1

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
IMS-0010#A	6156	<u>mission essential</u>	SDPS	<u>functional procedural</u>	<u>inspection</u>	<u>un-verified</u>	<u>inspection</u>	<u>un-verified</u>	The IMS shall be capable of providing 24 hour per day, 7 day per week access to the ECS services.		<u>ECS shall meet this requirement by inspection of applicable test results from RMA requirements E OSD3900 through E OSD4020.</u>
IMS-0030#A	5464	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide from each ECS access node, access to the full range of services spanning the whole of ECS, including data and services available from all DAACs without requiring that the user know the physical location of the data.	A: LIM capability	
IMS-0040#A	5465	mission critical	SDPS	interface	test	un-verified	test	<u>un-verified</u>	The IMS shall verify user authorization by validation of inputs with information as supplied by the SMC.		
IMS-0050#A	5466	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS shall provide the capability for users to define and modify user profile information, to include at a minimum: a. User electronic address b. Data distribution media c. Data distribution address d. User expertise level e. Default query parameters f. Terminal characteristics g. Technical specialty.	'Define' means input values to user profile information.	
IMS-0060#A	5467	mission critical	SDPS	security <u>functional</u>	test	un-verified	test	<u>un-verified</u>	The IMS shall, when creating ECS user accounts, request registration approval, user account priorities, and authorized user services from the SMC.		
IMS-0070#A	5468	mission essential	SDPS	<u>interface functional</u>	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide the user with initial system access procedures, priority		

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									information, and authorized services as maintained in the SMC.		
IMS-0080#A	5469	mission essential	SDPS	<u>security functional</u>	inspection	un-verified	inspection test	<u>un-verified</u>	The IMS shall maintain a list of authorized ECS services for each user and shall update the list with information supplied by the SMC.		
IMS-0085#A	5470	mission essential	SDPS	<u>security functional</u>	inspection	un-verified	inspection demo	<u>un-verified</u>	The IMS shall provide unregistered users access to ECS services as authorized by the SMC.		
IMS-0090#A	6501	mission essential	SDPS	<u>interface functional</u>	inspection	un-verified	inspection demo	un-verified	The IMS shall be accessible to users via, at a minimum: a. Direct connection c. Network link		
IMS-0100#A	6473	mission essential	SDPS	interface	inspection	un-verified	demo	un-verified	The IMS shall support, at a minimum: a. Interactive sessions b. Non-interactive remote sessions c. Client-server interface		
IMS-0130#A	5475	mission critical	SDPS	security	demo	un-verified	demo	<u>un-verified</u>	The IMS shall verify that a user is authorized to access a particular IMS service before providing the service to the user.		
IMS-0150#A	6475	mission fulfillment	SDPS	<u>security functional</u>	demo	un-verified	demo	un-verified	The IMS shall supply a uniform user interface for access to the following at a minimum: a. Heterogeneous data sets b. Communications networks c. Data bases that are geographically dispersed d. Multi-disciplined directories and inventories	A: e- within the capability of the LM	
IMS-0170#A	6476	mission fulfillment	SDPS	evolvable	analysis	un-verified	demo	un-verified	The IMS user interface shall be designed so that restructuring of the IMS data bases shall not result in the need for changes to the IMS		

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									interface.		
IMS-0180#A	5479	mission fulfillment	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall extract relevant data from the user profile information and display as default values.		
IMS-0190#A	5480	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide the capability to save information selected in prior metadata searches for use in subsequent IMS service requests, either in the current session or in future sessions.		
IMS-0210#A	5481	mission critical	SDPS	security	demo	un-verified	demo	<u>un-verified</u>	The IMS shall allow data access privileges to be configurable by user and data type for: a. Read b. Write c. Update d. Delete e. Any combination of the above		
IMS-0220#A	5482	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall store, maintain and provide data management services for ECS directory, inventory, and guide (documentation/reference material) and other IMS data bases.		
IMS-0230#A	5483	mission critical	SDPS	security	demo	un-verified	demo	<u>un-verified</u>	The IMS shall restrict update of ECS directory, inventory, and guide (documentation/reference material) and other IMS data bases to authorized users based on the users' <u>user's</u> access privileges.		
IMS-0240#A	5484	mission critical	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide, at a minimum, data base administration utilities for: a. Modifying the data base		

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									schema b. Performance monitoring c. Performance tuning d. Administration of user access control e. On-line incremental backup f. On-line recovery g. Export/import of data		
IMS-0250#A	5485	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide required maintenance of the IMS data bases, to include at a minimum: a. Capability to restructure the data base b. Capability to interrupt a maintenance session and restart the session without loss of information		
IMS-0260#A	5486	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide interactive and batch information management capabilities for authorized users to add, update, delete, and retrieve information from the IMS data bases.		
IMS-0290#A	5487	mission fulfillment	SDPS	functional	analysis	un-verified	analysis	<u>un-verified</u>	IMS internal data base management queries shall be expressed in a standard query language.		
IMS-0300#A	5488	mission essential	SDPS	functional	inspection	un-verified	inspection	<u>un-verified</u>	The IMS shall maintain a log of all information update activity.		
IMS-0320#A	5489	mission essential	SDPS	functional	inspection	un-verified	inspection demo	<u>un-verified</u>	Standard Product related metadata shall contain, at a minimum: a. Keywords and glossary from investigators b. Keywords, synonyms, and glossary for cross-product and cross-directory referencing c. Identifiers for locating products in the DADS archive by granule		

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									d. Documentation on algorithms, including version history, authors, written description of product, equations, and references e. Documentation on instrument(s) and spacecraft(s) including history of housekeeping and ancillary parameters, discipline characterization, calibration parameters, key individuals, and references f. Identifiers, algorithms, written descriptions, equations, authors, and references associated with static browse products and subsetted, subsampled, and summary data products g. Published papers, research results, significant <u>“significant”</u> results, and references by author and date h. Key organizations and personnel for all product-related DAACs, ADCs, and ODCs i. Granule-specific information as listed in Tables C-10 and C-11 in Appendix C		
IMS-0330#A	5490	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The metadata maintained by the IMS shall provide a cross reference that relates science data to the following at a minimum: a. Calibration data, navigation data, and instrument engineering data b. Processing algorithms used for data generation at the PGS c. Software used for data generation at the PGS d. Parameters used for data		

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									generation at the PGS e. Input data used for data generation at the PGS f. Data recipients g. The PGS at which the data was processed h. QA and validation data, reports, and algorithms		
IMS-0340#A	5491	mission essential	SDPS	functional	inspection	un-verified	inspection demo	<u>un-verified</u>	The metadata maintained by the IMS shall contain content-based summary information, including statistical summaries and granule features, for all ECS standard and special products.		
IMS-0350#A	6477	mission critical	SDPS	security <u>functional</u>	inspection	un-verified	demo	un-verified	The IMS shall provide the capability for authorized personnel to add, delete, or modify ECS metadata entries, individually or in groups.		
IMS-0355#A	5493	mission fulfillment	SDPS	functional	analysis	un-verified	analysis demo	<u>un-verified</u>	The metadata shall be expandable to include additional attributes which are identified during the mission and deemed useful for data search.		
IMS-0356#A	5494	mission fulfillment	SDPS	interface	analysis	un-verified	analysis test	<u>un-verified</u>	The IMS shall provide a mechanism to create and update directory entries on EOSDIS data sets and forward directory entries in the appropriate format to the Global Change Master Directory.		Non-ECS implies GCMD
IMS-0360#A	5495	mission essential	SDPS	interface	demo	un-verified	demo	<u>un-verified</u>	The IMS shall maintain or provide access to an on-line Earth Science master directory of information, which may be geographically distributed, that describes whole data sets in the Earth science disciplines.		
IMS-0380#A	5496	mission essential	SDPS	interface	demo	un-verified	demo	<u>un-</u>	The IMS shall provide the capability to exchange directory	A: Need one-way	<u>Non-ECS systems include</u>

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
								<u>verified</u>	data with IP data centers, ADCs, and selected ODCs.	interoperability with NOAA-SAA. For TRMM support end-to-end testing and fault isolation.	IP data centers, and ODCs. For release A ECS shall request and receive NOAA directory data per ICD 209-CD-006-005, March 96.
IMS-0390#A	5497	mission essential	SDPS	interface	demo	un-verified	demo	<u>un-verified</u>	The IMS shall maintain or provide access to directory entries for all data sets accessible through the IMS search and order service.		
IMS-0410#A	5498	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall maintain an on-line guide (documentation /reference material) that provides information about individual EOSDIS data sets.		
IMS-0415#A	5499	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide the ability to access and present (dependent on the user's display device capabilities) guide information which includes graphics and hypertext, derivable from suitably structured documents, as well as plain text documents.	A: GUI	
IMS-0420#A	5500	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS on-line guide (documentation /reference material) shall provide or, where appropriate, contain references to such information as: a. Documentation of processing algorithms used for EOS and other Earth science data products generated by the ECS	A: as applicable to the data set	

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									b. Results of science data quality assessments of EOS data c. Bibliography of published and unpublished literature (as available) derived from the project d. Cross references between differing studies of the same data e. Other documents relevant to quality assessment of EOS data f. Product specifications g. Instrument specifications h. Summaries of data sets derived from observation logs i. Format options available for the given data set j. Subsetting, subsampling, and transformation options available for the given data set k. Inventory search options available for the given data set		
IMS-0430#A	5501	mission essential	SDPS	functional	analysis	un-verified	analysis	<u>un-verified</u>	The IMS shall maintain an on-line inventory with information that individually describes each granule of EOSDIS data, where granule refers to the minimum traceable logical unit of data stored in the archives, as defined by the instrument science team.		
IMS-0440#A	5502	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall maintain information that describes spacecraft housekeeping and ancillary data parameters stored in the archives.		
IMS-0450#A	5503	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS shall accept and validate new and updated metadata for all ECS archive		

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									data which has been ingested at the DADS.		
IMS-0455#A	5504	mission essential	SDPS	functional	test	TBD <u>un-verified</u>	test	<u>un-verified</u>	The IMS shall accept and validate new metadata from the DADS reflecting changes as a result of: b. Transfers c. Unexpected loss d. Restoration of data after recovery from loss		
IMS-0460#A	5505	mission fulfillment	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide the capability to accept metadata problem reports from users, and inform the PGS quality assurance staff of the problem.		
IMS-0480#A	5506	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall allow the user to store documents in the ECS.	A: electronic	
IMS-0490#A	5507	mission essential	SDPS	<u>standards functional</u>	demo	un-verified	demo <u>test</u>	<u>un-verified</u>	The IMS shall provide the capability to ingest documentation in a number of digital text formats, at a minimum the following: a. ASCII text b. Microsoft WORD c. HTML d. Interleaf e. Postscript f. WordPerfect		
IMS-0500#A	5508	mission essential	SDPS	functional	demo	TBD <u>un-verified</u>	demo	<u>un-verified</u>	The IMS shall provide access to information to include at a minimum: a. Metadata b. Spacecraft housekeeping and ancillary data information		

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									f. Processing schedules g. Documentation i. Science Processing Library software j. Documentation on data format and metadata standards		
IMS-0510#A	6478	mission critical	SDPS	interface	demo	un-verified	inspection	un-verified	The IMS shall provide tools for research planning and data search, to include at a minimum: a. Data acquisition schedules and plans b. The capability to map specified geophysical parameters to the appropriate instrument and/or Standard Product c. Descriptive information on instruments and geophysical parameters available in Standard Products d. Climatology information f. Geographic reference aids g. Spacecraft location projections.		
IMS-0530#A	5510	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide document text search.		<u>Documents are part of Advertisements.</u>
IMS-0535#A	5511	mission fulfillment	SDPS	functional	demo	un-verified	demo test	<u>un-verified</u>	The IMS shall support hierarchical searching of suitably structured documents.		<u>Documents in HTML are considered suitably structured.</u>
IMS-0550#A	5512	mission fulfillment	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs ECS's: a. Architecture		

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									b. Data Base management system c. Data Base structure d. Query languages e. Data formats		
IMS-0570#A	5514	mission fulfillment	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide an incremental search capability.		
IMS-0580#A	5515	mission fulfillment	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide geographic and geophysical (e.g. ocean bathymetry surface features) overlays to aid in the selection of spatial data and to enhance the display of metadata.		
IMS-0590#A	5516	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide the capability to distribute information: a. On-line (i.e., over a network) b. Off-line (hardcopy or offline data media).		
IMS-0600#A	5517	mission essential	SDPS	interface	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide the capability to search a directory of information that describes whole EOSDIS, non-EOSDIS, and ADC earth science data sets.		
IMS-0610#A	5518	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide the capability to search the data inventory which describes each granule of EOSDIS data.		
IMS-0620#A	5519	mission essential	SDPS	interface	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide access to inventories of selected ODCs and ADCs via level II and level III catalog interoperability as specified in		<u>For release A ECS shall request and receive NOAA directory data per ICD 209-CD-006-005, March 96.</u>

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									ICDs.		
IMS-0625#A	5520	mission fulfillment	SDPS	interface	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide bi-directional interoperability between ECS and V0 for access to the inventory metadata, guide information, and browse products via level III catalog interoperability as specified in ICDs.	A: V0 2-way interoperability	For release A ECS/V0 Gateway have Two-way interoperability, as described in ICD 209-CD-006-005, March 96.
IMS-0630#A	5521	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS shall provide the capability to select metadata for retrieval by: a. Boolean operators b. Relational operators c. Attribute values d. Search strings e. Combinations thereof		
IMS-0640#A	5522	mission essential	SDPS	functional	test	FBD <u>un-verified</u>	test	<u>un-verified</u>	The IMS shall provide the capability to query geographic metadata by any of the following criteria at a minimum: a. Geographic reference b. Data element content (as specified in metadata) c. Minimum bounding rectangle d. Point and radius f. Geographic name (based on a standard data base, such as USGS Geographic Names Information System) g. WRS h. Any combination of the above	There was a mistake made in the F&PRS. GSFC has been notified. It appears as though item f. replaced the original item f. This is not the case item f. WRS is and additional item and becomes item g.	

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										REL A: Items a, b, & c are implemen ted in this release.	
IMS-0650#A	5523	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS shall query non-geographic metadata by any of the following criteria at a minimum: a. Exact word match b. Phrase match c. Character set (string) d. Wildcard construct (prefix, embedded, suffix) e. Character range f. Logical and Boolean operators g. Min/max range search h. Any combination of the above	A: Supports phrase, exact word and substring matching.	
IMS-0660#A	5524	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS shall provide inventory metadata search based on any combination of the core (Table C-10, Appendix C) and where applicable dataset-specific (Table C-11, Appendix C) inventory metadata attributes and geophysical parameters at a minimum.		
IMS-0740#A	6481	mission essential	SDPS	functional	demo	un-verified	test	un-verified	The IMS shall provide the capability for users to generate and update requests for one-time orders or standing orders for the DADS to distribute DADS archive holdings to include, at a minimum, Standard Products, Standard Product software, spacecraft	A: Standard products, S/C housekeeping and Ancillary data	<u>Release A not to provide standard product software.</u>

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									housekeeping and ancillary data.		
IMS-0760#A	5530	mission essential	SDPS	security	test	un-verified	test	<u>un-verified</u>	The IMS shall access distribution criteria for each data product and data product software and compare the distribution criteria to the requester's data access rights to verify that the data and software can be distributed as requested.		
IMS-0780#A	5531	mission essential	SDPS	interface <u>security</u>	test	un-verified	test	<u>un-verified</u>	The IMS shall accept and validate from the ECS users, IPs, ADCs, and ODCs requests for ECS archival data products.		<u>For Rel A, users are restricted to those that have access using the V0 system protocol.</u>
IMS-0810#A	5533	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS shall prepare, for output to the DADS, product orders to retrieve specified data from the archive and distribute it, which contains the following information at a minimum: a. Requester identification b. Data type c. Data set identifier e. Data formats f. Distribution instructions, including media requirements g. Request priority h. Suggested earliest start time i. Suggested latest completion time		
IMS-0820#A	5534	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS shall provide to the user product order status information from the DADS to confirm or reject an order, which contains the following information at a minimum:		

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									a. Requester identification b. Request identification c. Request status d. If rejection, then the reason for the rejection		
IMS-0860#A	5536	mission essential	SDPS	interface	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide an interface to ADC and ODC data systems and archives that produce, process, and/or maintain Earth science data sets and that have agreed to make the information and services available to ECS.	A: 1-way NOAA interoperability	<u>ADC/ODC data systems include NOAA SAA. The one way ECS/NOAA interoperability is for NOAA to process ECS requests, but not visa versa. Interfacing is for ADC/ODC data systems and ADC/ODC archives.</u>
IMS-0870#A	5537	mission essential	SDPS	security	test	un-verified	test	<u>un-verified</u>	The IMS shall provide access in accordance with MOUs to ADC and ODC data that b. Is stored by ADC and ODC archives and requested by EOSDIS users c. Is required as ancillary data for production proession processing		<u>Only V0 and NOAA are applicable for release A. The one way ECS/NOAA interoperability is for NOAA to process ECS requests, but not visa versa. Interfacing is for ADC/ODC data systems and ADC/ODC archives.</u>
IMS-0890#A	5539	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS shall provide the capability to receive the metadata from the DADS when ADC or ODC data has been ingested into the ECS archives.	A: ancillary data from the ADC, to store in archive	
IMS-0915#A	5541	mission essential	SDPS	interface	test	un-verified	test	<u>un-verified</u>	The IMS shall provide an interface to the Version 0 system for ordering data products to be delivered directly to the user, or as specified in ICDs.		
IMS-	5542	mission	SDPS	functional	test	un-	test	<u>un-</u>			

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
0930#A		essential				verified		<u>verified</u>	The IMS shall provide the capability to search metadata holdings for the purpose of identifying the product desired and the input data to be processed.		
IMS-0990#A	5544	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS shall determine if necessary lower level products exist for processing of the requested data product.		
IMS-1000#A	5545	mission essential	SDPS	<u>functional operational</u>	test	un-verified	test	<u>un-verified</u>	The IMS shall prepare, for output to the PGS, the Product Processing Order for specifying processing and data to be used in generating a product, which shall contain the following information at a minimum: a. Identification of the product(s) to be generated b. Identification of the expected time/time window of receipt of input products, and ancillary data c. Product processing priority d. Destination(s) of product output e. Suggested earliest start time f. Suggested latest completion time	A-Interface for Operations-only-	<u>ECS operation staff shall input the items noted for product processing.</u>
IMS-1005#A	5546	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS shall forward, to the appropriate DADS, Product Orders for distribution of the products generated as a result of the Product Processing Order.		
IMS-1060#A	5547	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS shall maintain a cross reference of processing performed, data sets produced, supporting data		

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									used, and data recipient.		
IMS-1080#A	6482	mission critical <u>mission essential</u>	SDPS	functional	demo	un-verified	test	un-verified	The IMS shall accept requests for acquisition of data to be processed one time or as standing orders.		
IMS-1280#A	5550	mission essential	SDPS	<u>interface functional</u>	test	un-verified	test	<u>un-verified</u>	The IMS shall send a product order, priority, and suggested start time and completion time to the ECS elements responsible for processing and distributing a product.		
IMS-1290#A	6086	mission essential	SDPS	<u>procedural operational</u>	test <u>inspection</u>	un-verified	test <u>inspection</u>	<u>un-verified</u>	The IMS shall send a product order to an ADC or an ODC with the identification of the destination DADS and suggested shipping deadline for data required for product processing.	This requirement is implemented by procedural agreements documented in the ECS/NOAA ADC IRD.	<u>For release A product orders placed by telephone. ECS Polls NOAA for required data.</u>
IMS-1300#A	5552	mission fulfillment	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall be capable of responding to user inquiries for status of user-initiated requests, and user request history.		
IMS-1310#A	5553	mission essential	SDPS	<u>interface operational</u>	test	un-verified	test	<u>un-verified</u>	The IMS shall provide the capability to accept, from product requesters, product distribution status requests, retrieve the request status, and display the status to the requester for an ECS, ADC,	At Release A, ECS will support this requirement by	

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									or ODC data product.	users contacting ops/user services who then utilize an ops MSS interface to obtain status.	
IMS-1380#A	5554	mission fulfillment	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS shall provide the capability to integrate the element toolkits with a common user interface.		
IMS-1490#A	5555	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS toolkit software shall provide users, including those working from ICCs and ISTs, with the capability to locally construct the requests for IMS services, forward the requests to the IMS server, and obtain request results.		
IMS-1500#A	5556	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS toolkit software shall provide the tools to support user preparation or automated generation of metadata, for example, directory, inventory, and guide (documentation/reference material) entries.		<u>Release A does not do automated generation of metadata.</u>
IMS-1510#A	5557	mission essential	SDPS	<u>standards functional</u>	test	un-verified	test	<u>un-verified</u>	The IMS data visualization toolkit capabilities shall be portable and execute on ECS supported workstations and appropriate ECS facility computers.		<u>Portability supported by binaries.</u>
IMS-1520#A	5558	mission essential	SDPS	functional	test	un-verified	test	<u>un-</u>	The IMS toolkit software shall	A: Display	

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
								<u>verified</u>	provide data visualization tools to assist the investigators to perform the following functions, at a minimum: a. QA/Validation of products generated by the PGS b. Algorithm development c. Calibration functions, parameter verification, and anomaly detection d. View subsetted, subsampled, and summarized data whenever associated inventory information is displayed	two-dimensional data arrays as pseudocol or images.	
IMS-1530#A	5559	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS data visualization toolkit shall provide the capability to visualize data in raster and vector formats and to visualize animated products.	A: Display 8-bit and 24-bit raster images, Latitude/Longitude pairs	
IMS-1540#A	5560	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS toolkit software shall provide the capability to generate, at a minimum: a. Two-dimensional plots (x-y plots, scatter plots, profiles, histograms) b. Three-dimensional plots c. Contour plots d. Three-dimensional surface diagrams	A: Two-dimensional color scatter plots, two-dimensional data arrays as pseudocol or images.	
IMS-1550#A	5561	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS toolkit data visualization tools shall provide capabilities for image manipulation (e.g., pan, zoom, color, contrast).	A: Selecting color, zooming and panning for	<u>Release A shall not address contrast.</u>

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
										pseudocol or visualizations; zooming and panning for raster images.	
IMS-1600#A	5562	mission essential	SDPS	interface	demo	un-verified	demo	<u>un-verified</u>	The IMS shall provide access to the following communication services at a minimum: a. File transfer b. Multi media mail c. Remote log-on d. Electronic Bulletin Board e. Access to other networks	A: b-x.400 support multimedia	<u>For release A multimedia mail shall be supported by x.400.</u>
IMS-1620#A	5563	mission essential	SDPS CSM S	functional <u>security</u>	test	un-verified	test	<u>un-verified</u>	The IMS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management.	A: Security management data	
IMS-1645#A	6483	mission fulfillment	SDPS	interface <u>functional</u>	demo	un-verified	test	un-verified	The IMS shall accept from the users and output to the SMC, user feedback information, which shall contain the following at a minimum: a. Product data quality assessment b. Schedule performance assessment c. Evaluation of quality of ECS service	A: User comments only-	<u>User feedback shall be comments (i.e. freeform text) only.</u>
IMS-	5565	mission	SDPS	interface	demo	un-	demo	<u>un-</u>	The IMS shall provide to the		

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
1646#A		fulfillment		<u>functional</u>		verified		<u>verified</u>	SMC a record of data orders for the purposes of maintaining a full and complete history of all data orders.		
IMS-1650#A	5566	mission critical <u>mission essential</u>	SDPS	functional	test	un-verified	test	<u>un-verified</u>	MS IMS operations data shall contain information on: a. System utilization at the IMS b. Outstanding data distribution requests c. Outstanding processing requests d. Outstanding data acquisition requests		
IMS-1660#A	5567	mission essential	SDPS	interface	test	un-verified	test	<u>un-verified</u>	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories		
IMS-1665#A	6484	mission fulfillment	SDPS	interface	test	un-verified	demo	un-verified	he The IMS shall provide to the SMC, IMS services usage by each user (to include at a minimum user name, IMS service identification, date/time stamp, time expended, facilities used) for later reporting and determination of access patterns.		
IMS-1700#A	5569	mission critical <u>mission essential</u>	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS shall provide the capability to generate reports on: a. The backlog of data distribution requests b. The backlog of processing		

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									requests c. The backlog of data acquisition requests d. Data quality assessment e. Daily IMS operations summaries f. IMS performance summaries		
IMS-1720#A	5570	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS shall provide the capability to produce reports that relate data sets to: a. Processing algorithms used for data generation at the PGS b. Software used for data generation at the PGS c. Parameters used for data generation at the PGS d. Data recipients		
IMS-1730#A	5571	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS shall provide the capability to produce reports that trace the data product back to the source instrument. 8711		
IMS-1740#A	5572	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	The IMS shall produce cross reference reports (by user and data set) of processing performed, data sets produced, supporting data used, and data recipient.		
IMS-1760#A	5573	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The IMS shall send detected hardware faults to the SMC, to include at a minimum: a. IMS processors b. IMS network interfaces c. Storage devices		
IMS-1765#A	6485	mission essential	SDPS	functional	test	un-verified	inspection	un-verified	The IMS shall be developed with configuration-controlled application		

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									programming interfaces (APIs) that will be capable of supporting development of the following extensions to the ECS IMS by the DAACs, ECS and other users: a. Addition of metadata fields that are unique to the data maintained at a specific DAAC b. Addition of documents for use as guide metadata for DAAC-specific data products c. Development of DAAC-specific data acquisition request utilities d. Support of data visualization utilities for DAAC-specific products e. Support of DAAC-specific data analysis utilities f. Development of DAAC-unique metadata search and access services that will operate independent of the delivered ECS IMS services g. Development of a local user interface that can bypass the delivered ECS user interface for accessing DAAC-unique metadata search and access services		
IMS-1790#A	5575	mission critical	SDPS	performance	test	un-verified	test demo	un-verified	The IMS shall provide, based upon the data model defined in Appendix C, sufficient storage for, at a minimum: a. Directory metadata b. Guide (documentation/reference material) metadata		<u>Number of inventory entries for Release A are derived from the capability to accommodate the Release A supported missions until the operational turnover of Release B (Through 3 quarter of 98). The</u>

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									c. Inventory metadata d. System space, LSM data, and data base system overhead e. Metadata staging area f. Spacecraft housekeeping and ancillary data metadata g. Science processing library software metadata h. Summary data statistics i. User workspace		<u>number inventory entries at GSFC is sized to support the TSDIS data (along with required ancillary) and V0 migration data while LaRC archive is sized to support the CERES (TRMM) data (along with required ancillary) and V0 migration data. Total accumulated number of inventory entries for Release A, derived from the August, 1995 Technical Baseline (Release A procurement baseline), is 815K @ GSFC and 70K @ LaRC. No Release A archive capacity is provided at EDC. The number of V0 migration inventory entries was derived by assuming an average size of 50 MB per file. Number of individual products estimated @ LaRC at Release A is 54, 17 for V0 migration and 37 for CERES, and @ GSFC is 40, 6 for V0 migration and 34 for TSDIS. These estimates include ancillary data products.</u>
IMS-1800#A	5576	mission fulfillment	SDPS	evolvable	analysis	un-verified	analysis	<u>un-verified</u>	The IMS design and implementation shall have the flexibility to accommodate		

RBR_id	key	category	seg	type	s_v_m	s_v_s	a_v_m	a_v_s	text	interpretation	clarify
									100% expansion in processing and storage capacity without major changes to the IMS hardware and software design. This expansion capacity shall apply to the total at-launch requirement plus the yearly product growth requirement specified in Appendix C.		