Release A CDR RID Report

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Review SDPS/CSMS
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Priority 2

Section Data Server Subsystem **Page** NA **Figure Table** NA

Category Name Data Server(DSS) Design **Actionee** ECS
Sub Category
Subject Product/Browse File Compression

Description of Problem or Suggestion:

In response to a question during the Data Distribution CSCI presentation a statement was made that the Data Server will not support data compression of any type during Release A. Further, it was suggested that some form of hardware compression may be used in future releases. This implies that EOSDIS is expecting all data in uncompressed form. Although it is NOT reflected in the product volume estimates of the TRMM-ECS ICD, TSDIS has recently decided that it will compress browse images and some of its data products. Software compression is needed to:
a. minimize network transfer time for browse images to users,
b. minimize network flow between TSDIS and EOSDIS,
c. conserve TSDIS storage resources,
d. reduce storage requirements for scientist working with the product data on their own machines.
TSDIS will use only HDF supported internal compression functions. TSDIS expects to be able to deliver product and browse data to EOSDIS in HDF compressed format. Further, TSDIS and TRMM scientists will expect to receive these files in compressed form when they are retrieved them from the EOSDIS archive.

Originator's Recommendation

HDF compressed files should be accepted by the Data Server in Release A and subsequent releases. Other than a policy change, I do not believe this requires any modifications to the Data Server design or code.

GSFC Response by: **GSFC Response Date**

HAIS Response by: Jacob Eisenstein **HAIS Schedule** 9/13/95
HAIS R. E. Jacob Eisenstein **HAIS Response Date** 11/1/95

ECS has indeed committed to accepting from TSDIS, files which use the standard HDF JPEG and RLE compressions. The data server will store and disseminate the files in compressed format. Users of these files will need to apply the standard HDF decompression routines. For ECS users viewing TSDIS data with EOSView (after expiration of the 6 month check-out window), EOSView (or rather, the underlying HDF library) will perform the decompression automatically

Status **Closed** **Date Closed** **11/9/95** **Sponsor** **Kobler**

****** **Attachment if any** ******