PATCH TEST REPORT

ECS System Integration and Test

Patch ID: PATCH_6A08_DPL_HEG.04	**Patch Installation Date:** **Location/Mode(s):** EDF DEV04	**Lead Engineer:** Tom Roegner

NCR Ids/Name (If not shown below):	**Patch Footprint/Affected Subsystems:** HEG/DPL

Test Objectives (Functional/Performance/Regression/Fault Recovery)/New Functionality/Ops Concept(s):
Verify NCRs/install

Test Location/Modes/Tools: EDF – DEV04	**Test Date:** **04/06/04 – 04/15/04**
Test Support Personnel:John Corbett **Development POC:** Cid Pradera, Ray Milburn, Sharon Ni and Abe Taaheri **NCR Submitter(s) POC:**	**Other Test Requirements:**

Required Completion Date 04/20/2004
Planned Completion Time/Date: 04/20/2004

Test Approach (By NCR, if applicable) NOTE: Detailed NCR verification steps/info should be entered in DDTS.

NCR #	Inputs/Actions:	Outputs/ Expected Results:	Pass/Fai /Not Tested	Comments:
39163	EDC DAAC projparms is missing sphere in SINHDF for MODIS Short Name = MOD09GHK.3 local granule ID = MOD09GHK.A2002123.h11v05.003.2002128130140.hdf granuleId=1055 ecsId =46377 Format/Proj=HDF-Sinusoidal	Radius of Sphere = 6371007.181000 meters. First Value in PROJECTIONPARAMETERS	P	Run 165
39719	ASCII text file for GeoTiff should specify band and telescope/camera Short name = AST_L1B.3 local granule ID = quartar.hdf Projection = GeoTiff, No Reprojection GranuleId= 955 EcsId=46083	The following additional attributes present in all text files. SWATH_OBJECT=<instrument>_Swath Where instrument = SWIR, TIR, or VNIR	P	Run 171
39720	Incorrect MODIS sphere value used in SIN to SIN projection ShortName = MOD09A1.4 LocalgranuleID = MOD09A1.A2003177.h11v05.004.2003194092334.hdf GranuleId=1157 EcsId=46061 Projection=HDFEOS, Sinusoidal	The following sphere of radius was present in the resample.log file 63710027.181 meters instead of 637099	P	Run 181
39757	TIFF metadata: incorrect PROJECTIONPARAMETER values RUN 169 Short Name = MOD09GHK.3 local granule ID =	The following parameters should be present in the resample.log and in the first two values of the PROJECTIONPARAMETERS in the .met file: Semi-Major Axis of Ellipsoid: 6378137.000000 meters	P	Run 169

	MOD09GHK.A2002123.h11v05.003.2002128130140.hdf granuleId=1055 ecsId =46377 format/projection=GeoTIFF,PolarStereographic Run 177 ShortName = MOD09A1.4 LocalgranuleID = MOD09A1.A2003177.h11v05.004.2003194092334.hdf GranuleId=1157 EcsId=46061 Format/Projection=GeoTIFF, Geographic	Semi-Minor Axis of Ellipsoid: 6356752.314245 meters 6378137.000000, 6356752.314245 respectively. The Radius of Sphere 6371007.181 was found in the resample.log and in all .met files (in PROJECTIONPARAMETERS group)	P	Run 177
39804	WebAccess: Remove ASTER swath subsetting options from HEG options page Run 168 Short name = AST_L1B.3 local granule ID = quartar.hdf Projection = GeoTiff, No Reprojection GranuleId= 883 EcsId=45775 Run 173 And ShortName=MOD10A1.004 LocalGranuleId= Projection=GeoTiff,Sinusoidal EcsId=45861 GranuleId=888	See verification enclosure in the NCR.	P	Refer to ncr 39804
39807	Tiff metadata: MODIS Sinusoidal has incorrect DATUM Short Name = MOD09GHK.3 local granule ID = MOD09GHK.A2002123.h11v05.003.2002128130140.hdf granuleId=1055 ecsId =46377 Format/Projection=GeoTiff,Sinusoidal	In the all .met files, the value for DATUM was "Sphere of Radius=6371007.181m"	P	Run 167
39808	TIFF metadata: pixel sizes different than in ENVI reports. Same information as Run 177 above for 39757	Used listgeo tool which list parameters in a *.tif file: ModelPixelScaleTag (1,3): 0.00416702542 0.00416666667 0 These after rounding are identical to the x,y pixelsize in decimal degrees in the .met file	P	Run 177
39809	TIFF metadata: incorrect CORNERCOORDINATESUNITS for MODIS Geographic ShortName=MOD09GHK.3 LocalgranuleID=MOD09GHK.A2002123.h11v05.003.2002128130140.hdf GranuleId=1055 EcsId=46377	For the GEOTIFF Geographic(requested by the NCR), the corner units were "Decimal Degrees" and the datum values "WGS 1984" which is now correct for this projection Consistent results were found in HDFEOS,Geographic-"DMS Degrees" Run164 HDFEOS,Sin,"Meters",Run165 GeoTIFF,Sinusoidal,Run167 GeoTIFF,Geographic,"DMS Degrees"Run168	P	Run 163
39867	ASTER swath GeoTiffs not oriented correctly in non-ENVI GIS Tools	Verified by the EDC DAAC. See verification enclosure	P	

40022	GeoTiff Tag should use MODIS sphere for MODIS SIN to SIN ShortName=MOD10A1.004 localgranuleId=MOD10A1.A2003246.h13v01.004.2003258033003.hdf	The WGS-84 sphere is not found in the tiff files according to listgeo tool. References to the correct MODIS sphere are correct(6371007.181). In the .met files, DATUM is correctly set to "Sphere of Radius 6371007.181"	P	Run 173
Regression Test	Run MOD29.004 grid request with local granule ID= MOD29.A2004006.0005.004.2004007170531.hdf Select GeoTIFF, Geographic projection	Successful execution of HEG	P	Run 192
Regression Test	Ran AST_L1B.3 Swath data request See AST_L1B.3 swath data requested in NCR 39804	Successful execution of HEG	P	
Regression Test	Requested MI1B2E.001 using local granule ID=MISR_AM1_GRP_ELLIPSOID_GM_P041_O001040_AF_02.hdf	See comments below	P	Run 191

Comments:

1. **MIB2E.001 in the EDF has a history of not finishing because of resource limitations in the EDF only.**

List of Artifacts/Attachments (Procedures/data/etc.):

Signature of Lead Engineer: Tom Roegner

Completion Date: April 20, 2004