ECS Configuration Change Request

1. Originator	2. Log Date:	3. CCR #:	4. Rev:	5. Tel:	6. Rm #:	7. Dept.
Evan Winston	13 Oct 00	00-1017	—	301.925.0348	2013	DEV/CO

8. CCR Title: Test Executable 5B.06_ESDT.08 for GDAAC, PVC, and VATC. MODIS TERRA ESDTs

9. Originator Signature/Date	10. Class	11. Type:	12. Need Date:
[signature] 10/13/00	II	CCR	13October2000

13. Office Manager Signature/Date	14. Category of Change:	15. Priority: (If "Emergency" fill in Block 28).
[signature] for / Tim Ortiz 10/13/00	Other	Emergency

16. Documentation/Drawings Impacted:	17. Schedule Impact:	18. CI(s) Affected:
N/A	N/A	DSS_ESDT

19. Release Affected by this Change:	20. Date due to Customer:	21. Estimated Cost:
5B		None - Under 100K

22. Source Reference: ☒NCR (attach) ☐Action Item ☐Tech Ref. ☐GSFC ☐Other:
NCR: ECSed 28408,28439,28417,28231,28359,28357,28360,25538,28065 -- these are partial deliveries on these NCRs

23. Problem: (use additional Sheets if necessary)
Provide revisions to MODIS TERRA ESDTs for GSFC.
Required before going public

24. Proposed Solution: (use additional sheets if necessary)
Provide the ESDT changes for GDAAC. 26 ESDTs are provided. These are workaround ESDTs that are to be used until further notice.
Contained in ESDT TAR file #22.

25. Alternate Solution: (use additional sheets if necessary)
Wait for 5B.07 release

26. Consequences if Change(s) are not approved: (use additional sheets if necessary)
Problems with Public Release or delays in INGEST of data.

27. Justification for Emergency (If Block 15 is "Emergency"):
ESDTs are needed at the GDAAC for immediate testing before public release of data.

28. Site(s) Affected: ☐EDF ☒PVC ☒VATC ☐EDC ☒GSFC ☐LaRC ☐NSIDC ☒SMC ☐AK ☐JPL ☐EOC ☐IDG Test Cell ☐Other

29. Board Comments:	30. Work Assigned To:	31. CCR Closed Date:

32. EDF/SCDV CCB Chair (Sign/Date): [signature] 10/15/00	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
33. M&O CCB Chair (Sign/Date): [signature] 10/13/00	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
34. ECS CCB Chair (Sign/Date):	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS

ORIGINAL

ADDITIONAL SHEET

CCR #: 00-1017 **Rev:** – **Originator:** Evan Winston

Telephone: 301.925.0348 **Office:** DEV/CO

Title of Change: Test Executable 5B.06_ESDT.08 for GDAAC, PVC, and VATC. MODIS TERRA ESDTs

This Test Executable series [5B.05/6_ESDT.xx) is being delivered as a series of TAR files delivering related ESDTs. Each DAAC will need some of these ESDTs but not all. Review each TAR file for your sites needs and take only the ESDTs that will be required for your needs. The TE will be labled 5B.05_ESDTxx if it is from the 5B.06 baseline and 5B.06_ESDTxx if it is froom the 5B.07 baseline.

Note: Each TAR file listing shows the NCRs addressed and at least the first line description of the NCR. (see below)

This TE can be loaded on top of 5B.03, 5B.04 , and 5B.06 installations.

The previous TEs for ESDTs [5B.05/6_ESDT.01 and .02 and .03 and .04 and .05 and .06 and .07] are still valid. Any ESDTs required by a DAAC should be taken from ESDT.01 first and then take any ESTDs needed from 5B.05/6_ESDT.02 and so on. Updates and installs should follow this same pattern.

CM:
Please Build the SUN TAR File (#22) for the merged ESDT files from current 5B baseline (5B.07) as listed below and provide as Test Executable 5B.06_ESDT.08. Provide the Tar files to the SMC.

TAR file # 22 for: GDAAC Covers: ECSed28408,28439,28417,28231,28359,28357,28360,25538,28065****partial delivery on all the NCRs
Files:
/ecs/formal/ESDT/Mowa/DsESDTMoMOD021KM.001.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD021KM.199.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD021QA.001.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD021QA.199.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD02HKM.001.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD02HKM.199.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD02HQA.001.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD02HQA.199.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD02OBC.001.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD02OBC.199.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD02QKM.001.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD02QKM.199.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD02QQA.001.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD02QQA.199.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD03.001.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD03.199.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD07_L2.001.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD07_L2.199.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD07_QC.001.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD07_QC.199.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD35_QC.001.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD35_QC.199.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMODVOLC.001.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMODVOLC.199.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD01.001.desc
/ecs/formal/ESDT/Mowa/DsESDTMoMOD01.199.desc

SMC: provide the noted TAR file[s] to GDAACs, PVC and VATC.

ORIGIN

DAAC Install Instructions: GDAAC
Special Instructions for TAR file 22 These MODIS TERRA ESDTs are all changes and thus the UPDATE ESDT command is to be used to install.

ALSO NOTE: These ESDTs are workarounds and are to be used until further notice.
1. Identify the proper Test Executable files
   Get Files listed above from SMC distribution;
2. UnTAR the files to a staging area.
3. Use the 'cp' from the command line to copy the ESDT files, storing these files inaccordance with local DAAC procedures (dir. where ESDT files are held usually: lib/ess), store in mode by mode, using the same ownerships and permission levels as existing ESDT files..
4. Then install the ESDTs as needed:
To install/update the ESDTs use the Science Data Server GUI.

5. Remember that for an initial install of an ESDT (NOT FOR UPDATES), an insert for each ESDT should be done through the Stmgt GUI. It is NOT recommended that these entries be made via an isql insert.!!!!One ESDT per GUI entry

Summary of all NCR fixes:
DsESDTMoMOD01.001.desc

```
/*****************************************************************/
/* ESD 72-93          2000/10/05        ECSed28408    */
/* Changed LongName from "MODIS/Terra Raw Radiances in Counts   */
/*   Daily L1A Swath" to "MODIS/Terra Raw Radiances in Counts   */
/*   5-Min L1A Swath"                                           */
/* Changed CollectionDescription from "This Level 1A data       */
/*   collection contains digitized counts for 36 MODIS channels,*/
/*   raw instrument engineering and spacecraft ancillary data.  */
/*   Visible, SWIR, and NIR measurements are made during daytime*/
/*   only, TIR measurements are made continuously." to          */
/*   "Level 1A collection contains digitized raw detector counts*/
/*   for the 36 MODIS spectral bands as well as engineering and */
/*   spacecraft ancillary data. Only bands 20 to 36 are used to */
/*   collect measurements in night mode, while all bands are    */
/*   used in day mode."                                         */
/* Added 4 SensorContainers containing SensorShortNames         */
/*   of "VNIR", "SWIR", "MIR", and "TIR"                        */
/* Changed the NumberofSensors to 5                             */
/* Added 4 AssociatedPlatformInstrumentSensorContainers         */
/*   containing AssociatedSensorShortNames of "VNIR", "SWIR",   */
/*   "MIR", and "TIR"                                           */
/* Added LocalVersionID to Inventory metadata                   */
/* Added LongName to ARCHIVED metadata                          */
/* Changed DESCRrevision to "1.2"                               */
/* Added "Terra" PlatformContainer                              */
/*****************************************************************/
```

DsESDTMoMOD021KM.001.desc

```
/*****************************************************************/
/*ESD 72-98          2000/10/06        ECSed28439    */
/* Changed LongName from "MODIS/Terra Calibrated Radiances Daily*/
/* L1B Swath 1km"                                               */
/* to "MODIS/Terra Calibrated Radiances 5-Min L1B Swath 1km"    */
/* Changed CollectionDescription to                             */
/*   "This Level 1B collection contains calibrated and          */
/*   geolocated radiances at-aperture for all 36 MODIS          */
/*   spectral bands at 1km resolution."                         */
/*from  "This Level 1B data collection contains calibrated and  */
/*   geolocated radiances at-aperature for 36 bands generated   */
/*   from MODIS Level 1A sensor counts (MOD 01). This product   */
/*    has 1-km resolution."                                     */
/* Added 4 SensorContainers containing SensorShortNames         */
/*   of "VNIR", "SWIR", "MIR", and "TIR"                        */
/* Changed the NumberofSensors to 5                             */
```

```
/* Changed ECSVariableKeyword value from "Infrared Imagery"    */
/*   to "Infrared Flux".                                       */
/* Added 4 AssociatedPlatformInstrumentSensorContainers        */
/*   containing AssociatedSensorShortNames of "VNIR", "SWIR",  */
/*   "MIR", and "TIR"                                          */
/* Added LongName to ARCHIVED metadata                         */
/* Changed DESCRrevision to "1.2"                              */
/* Added "Terra" PlatformContainer                             */
```

DsESDTMoMOD02HKM.001.desc

```
/*****************************************************************/
/*ESD 72-98          2000/10/06          ECSed28439    */
/* Changed LongName from "MODIS/Terra Calibrated Radiances Daily*/
/* L1B Swath 500m"                                             */
/* to "MODIS/Terra Calibrated Radiances 5-Min L1B Swath 500m"  */
/* Changed CollectionDescription from                          */
/*   "This Level 1B data collection contains calibrated and    */
/*   geolocated radiances at-aperature for 36 bands generated  */
/*   from MODIS Level 1A sensor counts (MOD 01). This product  */
/*   has 500-m resolution."                                    */
/*to "This Level 1B collection contains calibrated and         */
/*   geolocated radiances at-aperture for MODIS spectral       */
/*   bands 1 through 7 at 500m resolution."                    */
/* Added 2 SensorContainers containing SensorShortNames        */
/*   of "VNIR" and "SWIR"                                      */
/* Changed the NumberofSensors to 3                            */
/* Changed StorageMedium from "Online" to ("Magnetic Disks").  */
/* Added 2 AssociatedPlatformInstrumentSensorContainers        */
/*   containing AssociatedSensorShortNames of "VNIR" and "SWIR" */
/* Added LongName to ARCHIVED metadata                         */
/* Changed DESCRrevision to "1.2"                              */
/* Added "Terra" PlatformContainer                             */
/*****************************************************************/
```

DsESDTMoMOD02OBC.001.desc

```
/*****************************************************************/
/*ESD 72-98          2000/10/06          ECSed28439    */
/* Changed LongName from "MODIS/Terra On-Board Calibrator and  */
/* Engineering Data Daily L1B"                                 */
/* to "MODIS/Terra On-Board Calibrator and Engineering Data    */
/*   5-Min L1B"                                                */
/* Changed CollectionDescription from                          */
/*   "MODIS Level 1B Onboard Calibrator/Engineering Data"      */
/*to "This Level 1B collection contains MODIS On-Board         */
/*   Calibrator and Engineering Data.                          */
/* Added 4 SensorContainers containing SensorShortNames        */
/*   of "VNIR", "SWIR", "MIR", and "TIR"                       */
/* Changed the NumberofSensors to 5                            */
/* Added 4 AssociatedPlatformInstrumentSensorContainers        */
/*   containing AssociatedSensorShortNames of "VNIR", "SWIR",  */
/*   "MIR", and "TIR"                                          */
/* Added LongName to ARCHIVED metadata                         */
/* Changed DESCRrevision to "1.2"                              */
/* Added "Terra" PlatformContainer                             */
/*****************************************************************/
```

DsESDTMoMOD02QKM.001.desc

```
/*****************************************************************/
/*ESD 72-98          2000/10/06          ECSed28439    */
/* Changed LongName from "MODIS/Terra Calibrated Radiances Daily*/
/*  L1B Swath 250m"                                            */
/* to "MODIS/Terra Calibrated Radiances 5-Min L1B Swath 250m"  */
/* Changed CollectionDescription from                          */
```

```
/*  "This Level 1B data collection contains calibrated and     */
/*  geolocated radiances at-aperature for 36 bands generated   */
/*  from MODIS Level 1A sensor counts (MOD 01). This product   */
/*  has 250-m resolution."                                     */
/*to "This Level 1B collection contains calibrated and         */
/*  geolocated radiances at-aperture for MODIS spectral        */
/*  bands 1 and 2 at 250m resolution.                          */
/* Added 1 SensorContainer containing SensorShortName          */
/*  of "VNIR"                                                  */
/* Changed the NumberofSensors to 2                            */
/* Replaced DisciplineTopicParametersContainer OBJECT values   */
/* for ECSTermKeyword and ECSVariableKeyword from              */
/* "Infrared Wavelengths" and "Infrared Flux" to               */
/*"Visible Wavelengths" and "Visible Radiance".                */
/* Added 1 AssociatedPlatformInstrumentSensorContainer         */
/*  containing AssociatedSensorShortName of "VNIR"             */
/* Added LongName to ARCHIVED metadata                         */
/* Changed DESCRrevision to "1.2"                              */
/* Added "Terra" PlatformContainer                             */
/***************************************************************/

DsESDTMoMOD021QA.001.desc
/***************************************************************/
/*ESD 72-98          2000/10/06          ECSed28439    */
/* Changed LongName from "MODIS L1B 1 km QA Summary"          */
/* to "MODIS/Terra QA Summary of Calibrated Radiances 5-Min L1B */
/*    1km"                                                    */
/* Changed CollectionDescription from                         */
/*  "Each granule of MOD021QA (the L1B 1 km QA Summary)       */
/*  contains a copy of the metadata from the corresponding    */
/*  MOD021KM (L1B 1 km Calibrated Radiances) granule."        */
/*to "Each text file in this Level 1B collection              */
/*  contains a copy of the metadata from the corresponding    */
/*  L1B 1km Calibrated Radiances granule."                    */
/* Added LongName to ARCHIVED metadata                         */
/* Changed DESCRrevision to "1.2"                              */
/***************************************************************/

DsESDTMoMOD02HQA.001.desc
/***************************************************************/
/*ESD 72-98          2000/10/06          ECSed28439    */
/* Changed LongName from "MODIS L1B 500m QA Summary"          */
/* to "MODIS/Terra QA Summary of Calibrated Radiances 5-Min L1B */
/*    500m"                                                   */
/* Changed CollectionDescription from                         */
/*  "Each granule of MOD02HQA (the L1B 500m QA Summary)       */
/*  contains a copy of the metadata from the corresponding    */
/*  MOD02HKM (L1B 500m Calibrated Radiances) granule."        */
/*to "Each text file in this Level 1B collection              */
/*  contains a copy of the metadata from the corresponding    */
/*  L1B 500m Calibrated Radiances granule.                    */
/* Added LongName to ARCHIVED metadata                         */
/* Changed DESCRrevision to "1.2"                              */
/***************************************************************/

DsESDTMoMOD02QQA.001.desc
/***************************************************************/
/*ESD 72-98          2000/10/06          ECSed28439    */
/* Changed LongName from "MODIS L1B 250m QA Summary"          */
/* to "MODIS/Terra QA Summary of Calibrated Radiances 5-Min L1B */
/*    250m"                                                   */
/* Changed CollectionDescription from                         */
/*  "Each granule of MOD02QQA (the L1B 250m QA Summary)       */
/*  contains a copy of the metadata from the corresponding    */
/*  MOD02QKM (L1B 250m Calibrated Radiances) granule."        */
```

```
/*to "Each text file in this Level 1B collection              */
/*   contains a copy of the metadata from the corresponding    */
/*   L1B 250m Calibrated Radiances granule."                   */
/* Added LongName to ARCHIVED metadata                         */
/* Changed DESCRrevision to "1.2"                              */
/*************************************************************/

DsESDTMoMOD03.001.desc
/*************************************************************/
/*ESD 72-94&amp;ESD72-97        2000/10/05        ECSed28417    */
/* Changed LongName from "MODIS/Terra Geolocation Fields Daily */
/* L1A Swath 1km"                                              */
/*   Daily L1A Swath" to "MODIS/Terra Geolocation Fields 5-Min */
/* L1A Swath 1km"                                              */
/* Changed CollectionDescription from                          */
/*   "This Geolocation data collection contains geodetic       */
/*    coordinates, ground elevation, solar and satellite zenith,*/
/*    azimuth angle using the spacecraft attitude and orbit,   */
/*    instrument telemetry, and a digital elevation model for  */
/*    each MODIS 1-km sample."                                 */
/*to "Geolocation collection contains geodetic latitude and    */
/*    longitude, surface height above geoid, solar zenith and  */
/*    azimuth angles, satellite zenith and azimuth angles, and a*/
/*    land/sea mask for each 1km sample."                      */
/* Added 4 SensorContainers containing SensorShortNames        */
/*   of "VNIR", "SWIR", "MIR", and "TIR"                       */
/* Changed the NumberofSensors to 5                            */
/* Added 4 AssociatedPlatformInstrumentSensorContainers        */
/*   containing AssociatedSensorShortNames of "VNIR", "SWIR",  */
/*   "MIR", and "TIR"                                          */
/* Added LocalVersionID to Inventory metadata                  */
/* Added LongName to ARCHIVED metadata                         */
/* Changed DESCRrevision to "1.2"                              */
/* Added "Terra" PlatformContainer                             */
/*************************************************************/

DsESDTMoMOD07_L2.001.desc
/*************************************************************/
/*ESD72-106              2000/09/19        ECSed28231        */
/*Change the Collection metadata LongName from                */
/**MODIS Temperature and Water Vapor Profile Product" to      */
/**MODIS/Terra Temperature and Water Vapor Profiles 5-Min L2 Swath */
/*5km". Change the value of SensorShortName in the Collection */
/*metadata from the single value of "CCD" to the following 2 values */
/*(using multiple containers): MIR, TIR. Change the value of  */
/*NumberofSensors in the Collection metadata to 2. Change     */
/*AssociatedPlatformInstrumentSensor to reflect multiple containers */
/*with values. Change GCMD keywords remove the old ones and add new */
/*ones. Change the LongName object in the Archived metadata. Change */
/*the value of DESCRrevision from 1.0 to 1.2.                 */
/*Changed TelephoneNumber from "301-286-7608" to "301-614-5515". */
/*Changed DAAC Email and Telephone to the correct values.     */
/*************************************************************/


DsESDTMoMOD07_QC.001.desc
/*************************************************************/
/*ESD72-107              2000/10/06        ECSed28359        */
/* Changed LongName from                                      */
/* "MOD07 Atmospheric Profiles Diagnostic File" to            */
/* "MODIS/Terra Vertical Profiles Diagnostics 5-Min L2 5km"   */
/* Changed Collection Description from                        */
/* "MOD07 Atmospheric Profiles Diagnostic File" to            */
/*  "MODIS/Terra Vertical Profiles Diagnostics 5-Min L2 5km"  */
/*  Added ProcessingLevel to Collection metadata.             */
```

```
/* Added 2 SensorContainers containing SensorShortNames          */
/*   of "MIR" and "TIR"                                          */
/* Changed the NumberofSensors to 3                              */
/* Added 2 AssociatedPlatformInstrumentSensorContainers          */
/*   containing AssociatedSensorShortNames of "MIR" and "TIR"    */
/* Added "Terra" PlatformContainer                               */
/*  Added LongName, ProductionHistory and DESCRrevision to Archived */
/*  metadata.                                                    */
/*  Added PROCESSVERSION PSA.                                    */
/*  Added GROUPTYPE to Archivemetadata                           */
/*****************************************************************/

DsESDTMoMOD35_QC.001.desc
/*****************************************************************/
/*ESD72-109            2000/10/06        ECSed28357        */
/* Changed LongName from "MOD_PR35 Diagnostic File" to          */
/* "MODIS/Terra Cloud Mask and Spectral Test Diagnostics 5-Min L2  */
/*  250m and 1km"                                               */
/* Changed CollectionDescription from "MOD_PR35 Diagnostic File"  */
/* to "MODIS/Terra Cloud Mask and Spectral Test Diagnostics 5-Min  */
/* L2 250m and 1km"                                             */
/* Added ProcessingLevel to Collection metadata.                */
/* Added 4 SensorContainers containing SensorShortNames         */
/*   of "VNIR", "SWIR", "MIR", and "TIR"                        */
/* Changed the NumberofSensors to 5                             */
/* Added 4 AssociatedPlatformInstrumentSensorContainers         */
/*   containing AssociatedSensorShortNames of "VNIR", "SWIR",   */
/*   "MIR", and "TIR"                                           */
/* Added "Terra" PlatformContainer                              */
/* Added PROCESSVERSION PSA                                     */
/* Added LongName, ProductionHistory and DESCRrevision to Archived  */
/* metadata                                                     */
/*****************************************************************/

DsESDTMoMODVOLC.001.desc

/*****************************************************************/
/*ESD72-108            2000/10/06        ECSed28360        */
/* Changed LongName from "MODIS Volcano Alert File" to          */
/* "MODIS/Terra Volcano Alert 5-Min L2"                         */
/* Changed CollectionDescription LongName from                  */
/* "MODIS Volcano Alert File" to "MODIS/Terra Volcano Alert 5-Min  */
/*  L2"                                                         */
/* Added 2 new groups of DisciplineTopicParameters.             */
/* Changed ProcessingCenter in Collection metadata from MODAPS to  */
/* GSFC                                                         */
/* Added ProcessingLevel to Collection metadata                 */
/* Added 2 SensorContainers containing SensorShortNames         */
/*   of "MIR" and "TIR"                                         */
/* Changed the NumberofSensors to 3                             */
/* Added 2 AssociatedPlatformInstrumentSensorContainers         */
/*   containing AssociatedSensorShortNames of "MIR" and "TIR"   */
/* Added "Terra" PlatformContainer                              */
/* Added PROCESSVERSION PSA                                     */
/* Added LongName, ProductionHistory, DESCRrevision to          */
/* Archived metadata                                            */
/* Added GROUPTYPE to Archived metadata.                        */
/*****************************************************************/

DsESDTMoMYDOCQC.001.desc
/*****************************************************************/
/*                    2000/09/11        ECSed25538        */
/* Added 'Value = "Not Investigated"' to ScienceQualityFlag at  */
/* Inventory level                                              */
/*****************************************************************/
```

```
/*                    2000/08/31        ECSed28065        */
/* Added BoundingRectangle group to ARCHIVEDMETADATA              */
/* Added 4 DisciplineTopicParameters containers to Collection level */
/* Changed LongName and CollectionDescription at Collection level   */
/* Incremented DESCRrevision attribute value                      */
/* Added LongName group to ARCHIVEDMETADATA                       */
/*****************************************************************/
```

CM01AJA00