Clouds and the Earth's Radiant Energy System (CERES)

Data Management System

Operator's Manual

Instantaneous Surface and Atmospheric Radiation Budget (SARB) Subsystem (Subsystem 5.0)

CER5.0P1
CER5.1P1
CER5.3P1
CER5.4P1

Release 4
Version 2

Lisa H. Coleman[1], *Tom Caldwell*[1]

[1]Science Applications International Corporation (SAIC)
One Enterprise Parkway, Suite 300
Hampton, VA 23666

NASA Langley Research Center
Radiation Aerosols Branch
Atmospheric Sciences Competency
21 Langley Boulevard
Hampton, VA 23681-2199

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06/28/04	R4V1	541	• Updated ancillary data filenames. • Added OR to description of data files. • Corrected script names. • Added 5.4P1 to Target PGEs. • Added note to required files section. • Updated format to comply with standards.	Table 0-1 1.3.2.1 1.4, 1.4.3, 1.5.2, 4.4 2.1.4 (Table 2-3) 4.3.1.2 All

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Preface

The Clouds and the Earth's Radiant Energy System (CERES) Data Management System supports the data processing needs of the CERES Science Team research to increase understanding of the Earth's climate and radiant environment. The CERES Data Management Team works with the CERES Science Team to develop the software necessary to support the science algorithms. This software, being developed to operate at the Langley Atmospheric Sciences Data Center (ASDC), produces an extensive set of science data products.

The Data Management System consists of 12 subsystems; each subsystem represents one or more stand-alone executable programs. Each subsystem executes when all of its required input data sets are available and produces one or more archival science products.

This Operator's Manual is written for the data processing operations staff at the Langley ASDC by the Data Management Team responsible for this Subsystem. Each volume describes all Product Generation Executables for a particular subsystem and contains the Runtime Parameters, Production Request Parameters, the required inputs, the steps used to execute, and the expected outputs for each executable included within this Subsystem. In addition, all subsystem error messages and subsequent actions required by the ASDC operations staff are included.

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Introduction

The Clouds and the Earth's Radiant Energy System (CERES) is a key component of the Earth Observing System (EOS). The CERES instrument provides radiometric measurements of the Earth's atmosphere from three broadband channels: a shortwave channel (0.3 - 5 ∝m), a total channel (0.3 - 200 ∝m), and an infrared window channel (8 - 12 ∝m). The CERES instruments are improved models of the Earth Radiation Budget Experiment (ERBE) scanner instruments, which operated from 1984 through 1990 on the National Aeronautics and Space Administration's (NASA) Earth Radiation Budget Satellite (ERBS) and on the National Oceanic and Atmospheric Administration's (NOAA) operational weather satellites NOAA-9 and NOAA-10. The strategy of flying instruments on Sun-synchronous, polar orbiting satellites, such as NOAA-9 and NOAA-10, simultaneously with instruments on satellites that have precessing orbits in lower inclinations, such as ERBS, was successfully developed in ERBE to reduce time sampling errors. CERES continues that strategy by flying instruments on the polar orbiting EOS platforms simultaneously with an instrument on the Tropical Rainfall Measuring Mission (TRMM) spacecraft, which has an orbital inclination of 35 degrees. In addition, to reduce the uncertainty in data interpretation and to improve the consistency between the cloud parameters and the radiation fields, CERES includes cloud imager data and other atmospheric parameters. The CERES instruments fly on the TRMM spacecraft, on the EOS-AM platforms and on the EOS-PM platforms. The TRMM satellite carries one CERES instrument while the EOS satellites carry two CERES instruments, one operating in a fixed azimuth scanning mode and the other operating in a rotating azimuth scanning mode.

Document Overview

This document, CERES Instantaneous Surface and Atmospheric Radiation Budget (SARB) Subsystem 5.0 Release 3 Operator's Manual, is part of the CERES Subsystem 5.0 Release 3 delivery package provided to the Atmospheric Sciences Data Center (ASDC). It provides a description of the CERES Instantaneous SARB Subsystem Release 3 Product Generation Executives (PGE) and explains the procedures for executing the software. A description of acronyms and abbreviations is provided in Appendix A, comprehensive lists of messages that can be generated during the execution of PGEs CER5.0P1, CER5.1P1, CER5.3P1, and CER5.4P1are contained Appendix B, and Sample ASCII (PCFin) File Listings are provided in Appendix C.

This document is organized as follows:

Introduction
Document Overview
Subsystem Overview
1.0 PGEName: CER5.0P1
2.0 PGEName: CER5.1P1
3.0 PGEName: CER5.3P1
4.0 PGEName: CER5.4P1
References

Appendix A - Acronyms and Abbreviations
Appendix B - Error Messages for Subsystem 5.0
Appendix C - Sample ASCII (PCFin) File Listing(s) for Subsystem 5.0

Subsystem Overview

The Instantaneous SARB Subsystem software computes longwave, shortwave, and window channel vertical flux profiles that span from the Earth's surface to the Top-of-Atmosphere. These profiles are archived on the Clouds and Radiative Swath (CRS) product. Each CRS contains data from one hour from one instrument, and directly corresponds to a Single Satellite CERES Footprint TOA and Surface Fluxes, Clouds (SSF) for the same hour.

~~Three PGEs are currently required for the Instantaneous SARB Subsystem. PGE CER5.1P1 is the Main-Processor, which is run on an hourly basis. Prior to processing CER 5.1P1, two pre-processors must be executed. PGE CER5.2P1executes on a daily basis and is the first of two pre-processors to execute. After CER 5.2P1 has executed for each day of the month, PGE CER5.0P1 executes and processes the daily output from CER 5.2P1 for the month. After CER5.0P1 has processed, CER5.1P1 processes for each hour of available data for the month.~~

~~It is planned that in some future delivery of the subsystem, the functions performed by PGE CER5.2P1 will be combined with another existing PGE, leaving only PGEs CER 5.0P1 and CER 5.1P1. Because of this future plan, the numbering scheme of the Instantaneous SARB PGEs currently does not correspond to the order in which they are executed.~~

With the December 2002 delivery of the Instantaneous SARB Subsystem software, PGE CER5.2P1 is no longer necessary.

Four PGEs are currently required for the Instantaneous SARB Subsystem. PGE CER5.1P1 is the Main-Processor, which is run on an hourly basis. Prior to processing CER 5.1P1, the Instantaneous SARB Surface Albedo Monthly Pre-Processor and the Daily MODIS Aerosol Interpolation Monthly Pre-Processor must be executed using the hourly SSF Binary (SSFB) output produced for a whole month as input. After CER5.0P1 has processed, CER5.1P1 processes for each hour of available data for the month. PGE CER5.3P1 is the Instantaneous SARB Subsystem HDF-Only Post-Processor, which is only executed on a rare, as-need basis only. CER5.3P1 generates the HDF formatted CRS product from the CRSB, using the identical software executed by CER5.1P1 on a routine basis. A summary of the month's QC reports are generated by the Instantaneous SARB Subsystem Monthly Quality Control Summary Post-Processor, PGE CER5.4P1, along with verification that the CRSB and CRS files produced by CER5.1P1 contain the same information.

CER5.2P1: CERES Instantaneous SARB Subsystem Surface Albedo Daily Pre-Processor

~~PGE CER5.2P1, the Instantaneous SARB Subsystem Surface Albedo Daily Pre-Processor, subsets Field of View (FOV) data pertaining to surface albedo from the hourly SSF Binary (SSFB) files produced by PGE CER4.5-6P1 for a 24-hour period. These data are stored in a nonarchival daily file. Once all of the available SSFB files for the month have been subset, the resulting daily files are input to PGE CER5.0P1.~~

Beginning with the December 2002 delivery, PGE CER5.2P1 is no longer necessary.

CER5.0P1: CERES Instantaneous SARB Subsystem Surface Albedo Monthly Pre-Processor and the Daily MODIS Aerosol Interpolation Monthly Pre-Processor

PGE CER5.0P1 consists of the Instantaneous SARB Subsystem Surface Albedo Monthly Pre-Processor and the Daily MODIS Aerosol Interpolation Monthly Pre-Processor. The Surface Albedo Monthly Pre-Processor produces the Monthly Surface Albedo History (SAH) Map, and the Daily MODIS Aerosol Interpolation Monthly Pre-Processor produces the Interpolated Daily MODIS Aerosol (IMA) product.

The Surface Albedo Monthly Pre-Processor merges selected SSFB parameters produced by PGE CER4.5-6P1 into a single monthly file containing a 10-minute map of surface albedo observations from clear-sky over land FOVs. Two versions of this map are produced by PGE CER5.0P1. The first version contains only data derived from the input SSFB files, thus leaving some areas with no data. The second file fills in those areas for which no SSF data were available with data from a default data file. It is this second nonarchival file that is used as input by PGE CER5.1P1 for each hour of the month. An ASCII Quality Control (QC) report is also produced.

The Daily MODIS Aerosol Interpolation Monthly Pre-Processor reads all of the available daily MODIS MOD08 (or MYD08 for Aqua) files for the month and interpolates between days to fill in missing data. The resulting interpolated daily data are stored in one monthly file.

CER5.1P1 - Instantaneous SARB Subsystem Main-Processor and HDF Post-Processor

PGE CER5.1P1 consists of a Main-Processor and an Hierarchical Data Format (HDF) Post-Processor. The primary outputs from the Main-Processor are the CRS Binary (CRSB) and the CRS Validation Binary (CRSVB), along with an ASCII QC report. The CRSB serves as input for CERES Subsystem 6.0, and as input to the Instantaneous SARB Subsystem HDF Post-Processor. The HDF Post-Processor reads the CRSB product and converts the data to an HDF format, thus generating the CRS archival product for distribution outside of NASA-Langley.

~~The Main-Processor can process in two modes--Full-Hour and Subset. The Full-Hour Mode processes every FOV available from the SSF input product. The Subset Mode processes only those FOVs contained on the SSF that correspond to the CERES Validation Regions. The same software is used for both modes, hence there is only one PGE. The Production Strategy environment variable indicates in which mode the PGE will process. A Production Strategy environment variable definition beginning with "Subset" indicates that the PGE is to process in Subset Mode. If the Production Strategy environment variable definition begins with anything else, then the subsystem will process in Full-Hour Mode.~~

CER5.3P1 - Instantaneous SARB Subsystem HDF Post-Processor

PGE CER5.3P1 consists of the Hierarchical Data Format (HDF) Post-Processor. This processor will only be used in instances where reprocessing of the CRS files from existing CRSB files is necessary.

CER5.4P1 - Instantaneous SARB Subsystem Quality Control Post-Processor

PGE CER5.4P1 consists of three executables. With its initial delivery, the Instantaneous SARB Subsystem Monthly QC Summary Post-Processor collects information from a month of the Instantaneous SARB Subsystem Main-Processor QC reports and produces the HMAVAIL report, the HMQCR and HMRV reports, and plots of QC statistics. The Instantaneous SARB Subsystem HDF Verification Post-Processor compares up to five CRS files from the data month against the parent CRSB files to verify that the HDF conversion process maintained the integrity of the data.

In addition to the input files listed in the sections that follow, various static ancillary input data files are also required for the Instantaneous SARB PGEs to process. These files are listed in Table 0-1.

Table 0-1. Instantaneous SARB Subsystem Static Ancillary Input Data Files (1 of 2)

File Name	Description
SS5_DrivTab_19990315	Precomputed derivative table values
SigTab_Instantaneous_20040625	Precomputed sigma table values
IGBP_Ver3.0	Static, global vegetation/scene-type map index
CollinsAer_1998TRMM_Ver3.0 MATCH_TERRA_AOTS_MODIS.*CurrDay* MATCH_TERRA_AOTS_CLIM_MODIS.*mm*	Aerosol climatology based on assimilated climatology provided by Bill Collins *NOTE: The* CollinsAer_1998TRMM_Ver3.0 *is a single file containing data for the January-June 1998 time frame. The* MATCH_TERRA_AOTS_MODIS *files are daily files that are delivered to the ASDC by the SARB Working Group as they become available. For TRMM data sets for which MATCH data are not available, the ASCII filename generators for PGEs CER5.0P1 and CER5.1P1 intentionally generate a filename for a file that does not exist:* ***CollAer_NonExistFile****. The* MATCH_TERRA_AOTS_MODIS *daily files are used with both Terra and Aqua data sets. At this point in time, no distinction between Terra and Aqua is made in these filenames, i.e., all filenames contain the string "TERRA." For non-TRMM months for which daily MATCH files have not been delivered to Langley, the monthly MATCH-based climatological files, MATCH_TERRA_AOTS_CLIM_MODIS.yy, are provided.*

Table 0-1. Instantaneous SARB Subsystem Static Ancillary Input Data Files (2 of 2)

File Name	Description
SS5_HuCoxMunk_OcnAlb	Coefficients for the Hu-Cox-Munk surface albedo over ocean technique
SS5_GFDLAerClim_200006	Geophysical Fluid Dynamics Laboratory (GFDL) Aerosol climatology for time frames not covered by the Collins assimilated aerosol climatology
flsa0404_lut.2s.coef	Surface albedo-related coefficients required by the Fu-Liou Radiative Transfer Model
flsa3_lut.4s.coef_19991215	Surface albedo-related coefficients required by the Fu-Liou Radiative Transfer Model
flsa4_lut.2s.coef_19991215	Surface albedo-related coefficients required by the Fu-Liou Radiative Transfer Model
SS5_ZJin_OcnAlb_20031101	Zhonghai Jin ocean spectral albedo lookup table
ControlFile_20040625	ASCII file of control parameters used by the SARB software

1.0 PGEName: CER5.0P1

CER5.0P1 - CERES Instantaneous Surface and Atmospheric Radiation Budget (SARB) Subsystem Surface Albedo Monthly Pre-Processor and Daily MODIS Aerosol Interpolation Monthly Pre-Processor

1.1 PGE Details

1.1.1 Responsible Persons

The Subsystem software analysts responsible for the development of PGE CER5.0P1 are listed in Table 1-1.

Table 1-1. Subsystem Software Analysts Contacts

Item	Primary	Alternate
Contact Name	Lisa Coleman	Tom Caldwell
Organization	SAIC	SAIC
Address	1 Enterprise Parkway	1 Enterprise Parkway
City	Hampton	Hampton
State	VA 23666	VA 23666
Phone	(757) 827-4654	(757) 827-4667
Fax	(757) 825-4968	(757) 825-4968
LaRC e-mail	ceresdmt+sarb@larc.nasa.gov	ceresdmt+sarb@larc.nasa.gov

1.1.2 E-mail Distribution List

An E-mail distribution list can be obtained from the primary contact listed in Table 1-1.

1.1.3 Parent PGE(s)

The PGEs listed in Table 1-2 must successfully execute for the specified data set prior to executing PGE CER5.0P1.

Table 1-2. Parent PGEs for CER5.0P1

PGEName	Description
CER4.5-6.1P1	Inversion to Instantaneous TOA Fluxes and Surface Fluxes
CER12.1P1	Regrid Meteorological, Ozone, and Aerosol (MOA) Subsystem

1.1.4 Target PGE(s)

Table 1-3 lists the PGEs dependent on output from PGE CER5.0P1.

Table 1-3. Target PGEs after CER5.0P1

PGEName	Description
CER5.1P1	Instantaneous SARB Main Processor

1.2 Operating Environment

1.2.1 Runtime Parameters (A List of all Dynamic Parameters needed at Runtime)

The runtime parameters listed in Table 1-4 are required for the instructions given in the remainder of Section 1.0 to process PGE CER5.0P1.

Table 1-4. Runtime Parameters for CER5.0P1

Parameter	Description	Data Type	Valid Values
DataMonth	Data Month--yyyymm, where yyyy = four-digit year mm = two-digit month	I(6), where year = (I4.4) month = (I2.2)	 >1996 01 .. 12
PCFinfile	Name of input file to the PCF generator	ASCII	See Section 1.4
PCFname	Name of PCF file	ASCII	See Section 1.4

1.2.2 Environment Script Requirements

Refer to the CERES internal paper (Reference 1) for a detailed description of the CERES environment parameters required by the CERES PGEs.

PGE CER5.0P1 references the environment variable script, **ENV5.1P1-env.csh,** which contains the following parameters:

SS5	-	Sampling Strategy for Instantaneous SARB: see Production Request
PS5	-	Production Strategy for Instantaneous SARB: see Production Request
CC5	-	Configuration Code for Instantaneous SARB: see CM Database
SW5	-	SCCR number for current version of Instantaneous SARB software: see CM Database
DATA5	-	SCCR number for current version of Instantaneous SARB input data: see CM Database

1.2.3 Execution Frequency

CER5.0P1 executes once per data month, whenever all input data for all available days of that month are available. CER5.0P1 executes a maximum total of one time per month.

1.2.4 Memory/Disk Space/Time Requirements

Memory:	40832 K
Disk Space:	212925.37 MB
Total Run Time:	5 hours 1 minute

1.2.5 Restrictions Imposed in Processing Order

A month may be processed at any time, providing that all the available SSFB files for that month have been produced. For Terra and Aqua data sets, all available daily MODIS MOD08 files for that month are necessary. Should there be multiple months that are ready for processing through PGE CER5.0P1, there are no restrictions imposed on the ordering of the months.

1.3 Processor Dependencies (Previous PGEs, Ingest Data,..)

This section describes the nonancillary input files that are required for PGE CER5.0P1 processing. See Section 1.2 for variable information contained in the listed filenames.

1.3.1 Instantaneous SARB Subsystem Surface Albedo Monthly Pre-Processor

1.3.1.1 Input Dataset Name (#1): CER_SSFB - Hourly Binary SSF

a. Directory Location/Inputs Expected (Including .met files, header files, etc.):

$CERESHOME/inversion/data/out_comp/data/
CER_SSFB_$SS4_5_$PS4_5_$CC4_5.$DataMonthddhh

where $dd= 01 .. 31
$hh = 00 .. 23

1. Mandatory/optional: **These files are mandatory if available.**
2. Time Related Dependency: **Input files must be for same month to be processed.**
3. Waiting Period: **As soon as all SSFB files for the month are available.**

b. Source of Information (Source is PGE name or Ingest Source):

PGE CER4.5-6P1

c. Alternate Data Set, if one exists (maximum waiting period): **NONE**

d. File Disposition after successful execution: **Remove if all other dependent PGEs have processed.**

e. Typical file size (MB): **189.3 per hourly file**

1.3.1.2 Input Dataset Name (#2): CER_MOA - CERES Hourly Meteorological, Ozone, and Aerosol Ancillary Input Data Set

a. Directory Location/Inputs Expected (Including .met files, Header files, etc.)

$CERESHOME/sarb/data/out_comp/data/regridmoa

CER_MOA_$SS12_$PS12_$CC12.$DataMonthddhh

where $dd= 01 .. 31
$hh = 00, 06, 12, 18

and

CER_MOA_$SS12_$PS12_$CC12.$NextDataMonth"0100"

where $NextDataMonth is the data month immediately following $DataMonth.

1. Mandatory/optional: **These files are mandatory.**
2. Time Related Dependency: **Input files must be for same data month to be processed.**
3. Waiting Period: **As soon as all MOA files for the month are available.**

b. Source of Information (Source PGE name or Ingest Source):

PGE CER12.1P1

c. Alternate Data Set, if one exists (maximum waiting period): **NONE**

d. File Disposition after successful execution: **Remove if all other dependent PGEs have processed.**

e. Typical file size (MB): **13.31**

1.3.2 Instantaneous SARB Subsystem Daily MODIS Aerosol Interpolation Monthly Pre-Processor

1.3.2.1 Input Dataset Name (#1): MODIS MOD08 (Terra) / MYD08 (Aqua)

a. Directory Location/Inputs Expected (Including .met files, Header files, etc.)

$CERESHOME/clouds/data/input/MODIS/yyyyddd/
MOD08_D3.platformyyyyddd.collectionnumber.productiondate.hdf (for Terra)
OR
$CERESHOME/clouds/data/input/MODIS/yyyyddd/
MYD08_D3.platformyyyyddd.collectionnumber.productiondate.hdf (for Aqua)

where
yyyy = the four-digit data year
ddd = the three-digit Julian Day
platform = satellite, where "A" = Terra (AM1) and "P" = Aqua (PM1)
collectionnumber = version number
productiondate = processing date of granule

1. Mandatory/optional: **These files are mandatory if available for Terra and Aqua data sets. These files are not available for TRMM data sets.**
2. Time Related Dependency: **Input files must be for same data month to be processed. If multiple versions of the data are received for a data month, the latest version should be used unless directed otherwise.**
3. Waiting Period: **NONE. If there are missing days that are not expected to be obtained in a reasonable time frame (determined on a case-by-case basis), PGE CER5.0P1 can process successfully.**

b. Source of Information (Source PGE name or Ingest Source):

Externally obtained from Goddard DAAC

c. Alternate Data Set, if one exists (maximum waiting period): **NONE**

d. File Disposition after successful execution: **Remove if all other dependent PGEs have processed.**

e. Typical file size (MB): **452**

1.3.2.2 Input Dataset Name (#1): MATCH_TERRA_AOTS_MODIS - Daily MATCH Climatological Aerosol Files

a. Directory Location/Inputs Expected (Including .met files, header files, etc.):

$CERESHOME/sarb/data/ancillary/static/sarb/match_aot/
match_aots_$DataMonth/MATCH_TERRA_AOTS_MODIS.$DataDay

1. Mandatory/optional: **This file is mandatory for Terra and Aqua data sets if available. *IF NOT AVAILABLE, CONTACT THE RESPONSIBLE PERSONS LISTED IN TABLE 1-1 BEFORE ATTEMPTING TO RUN WITHOUT THE FILES*. The files may be available, just not delivered to the operational environment. This file is not available for TRMM data sets. At this point in time, no distinction between Terra and Aqua is made in these filenames, i.e., all filenames contain the string "TERRA."**
2. Time Related Dependency: **Input file must be for same month to be processed.**
3. Waiting Period: **As soon as available.**

b. Source of Information (Source is PGE name or Ingest Source):

Provided by responsible persons listed in Table 1-1**, using the CM delivery process.**

c. Alternate Data Set, if one exists (maximum waiting period): **NONE**

d. File Disposition after successful execution: **Retain.**

e. Typical file size (MB): **0.38**

1.4 Operating Procedures (Procedure for each part of the processor's elements)

The Surface Albedo Monthly Pre-Processor production script, run_press5, references a Process Control File (PCF) which contains the correct file names and paths for the PGE. This PCF is created by first executing an ASCII file generator, ascii_gen_5.0P1, and then executing the PCF generator, pcfgen_5.0P1.

1.4.1 How to Generate the ASCII File

The ASCII file name generator requires one command-line argument, $DataMonth, as defined in Table 1-4.

At the command-line (denoted by ">") type:

> **cd $CERESHOME/sarb/bin/sarb**
> **ascii_gen_5.0P1 $DataMonth**

The following file will be generated in **$CERESHOME/sarb/rcf/PCFgen/sarb/**:

CER5.0P1_PCFin_$SS5_$PS5_$CC5.$DataMonth

1.4.2 How to Generate the PCF File

The PCF generator, pcfgen_5.0P1, is executed using the newly created ASCII input file name as a command-line argument. See Section 1.2 for variable information.

At the command-line (denoted by ">") type:

> cd $CERESHOME/sarb/bin/sarb
> pcfgen_5.0P1 CER5.0P1_PCFin_$SS5_$PS5_$CC5.$DataMonth

The following PCF will be generated in **$CERESHOME/sarb/rcf/pcf/sarb/**:

CER5.0P1_PCF_$SS5_$PS5_$CC5.$DataMonth

1.4.3 How to Execute the Monthly Pre-Processor

Execute the production script by typing the script name, run_press5, followed by a string which designates the name of the required PCF file. See Section 1.2 for variable information.

At the command-line (denoted by ">") type:

> cd $CERESHOME/sarb/bin/sarb
> run_press5 CER5.0P1_PCF_$SS5_$PS5_$CC5.$DataMonth

1.4.4 Special Case Considerations

N/A, at this time. Special case considerations will be handled on a case-by-case basis, where special instructions will accompany each special request.

1.4.5 Special Reprocessing Instructions

All output files are opened with Status = NEW in CER5.0P1 software. These files must be removed before reprocessing.

At the command-line (denoted by ">") type:

> cd $CERESHOME/sarb/bin/sarb
> rm_script_5.0P1 CER5.0P1_PCF_$SS5_$PS5_$CC5.$DataMonth

The script, rm_script_5.0P1, removes all files generated by the ASCII file name and PCF generators, along with files generated during the execution of run_press5.

1.5 Execution Evaluation

1.5.1 Exit Codes

The PGE CER5.0P1 terminates using the CERES-defined EXIT CODES for the Langley TRMM Information System (LaTIS) as seen in Table 1-5. Other exit codes may appear from the program,

which may be the result of a system, compiler, or Toolkit-related error. In these cases, contact the responsible person (see Table 1-1) for assistance.

Table 1-5. Exit Codes for CER5.0P1

Exit Code	Definition	Action
0	Normal Exit	Proceed normally
203	Failure	Check the Log Files and take the appropriate action (see Appendix B)

1.5.2 Screen Messages

When running the production script, run_press5, the system message, "No match," may be written to the screen. This message occurs when the scripts try to remove an old output file that does not exist. This does not signify a problem.

1.5.3 Log and Status Files Results (Include ALL Log Files)

The Log files contain all error and/or status messages produced by the PGE. The files are located in directory: **$CERESHOME/sarb/data/runlogs/sarb**. See Section 1.2 for information on variable fields within the file names.

1. Report Log File: CER5.0P1_LogReport_$SS5_$PS5_$CC5.$DataMonth

The Report Log File contains the Instantaneous SARB-related messages. These messages may be strictly informative (Error Type = Notice or Warning) or may indicate a fatal condition that results in premature PGE termination (Error Type = Error). A comprehensive list of these messages, that can be generated during the execution of the PGE, is given in Table B-1.

2. Status Log File: CER5.0P1_LogStatus_$SS5_$PS5_$CC5.$DataMonth

The Status Log File contains all messages created by the Toolkit. If an abnormal exit is encountered by the PGE, this file should be examined for '_F_', fatal message type. The responsible person should be advised.

3. User Log File: CER5.0P1_LogUser_$SS5_$PS5_$CC5.$DataMonth

The User Log File is not used at this time, but exists to satisfy the Toolkit requirements. Typically the _U_ and _N_ (User information and Notice) will be written to User Log File and Status Log File.

1.5.4 Solutions to Possible Problems

As mentioned in Section 1.4.5, all output files are opened with Status = NEW in the PGE CER5.0P1 software. These files must be removed before reprocessing.

Should a review of the error message files discussed in Section 1.5.3 indicate that PGE CER5.0P1 failed reading a header for a specific day of the month, check that that day completed successfully. If that day did not complete successfully and the output files removed, sufficient header information was not written to the file, and CER5.0P1 will fail.

1.5.5 Conditions for Subsystem and/or Target PGE(s) Terminal Failure (Halt all further processing)

a. Subsystem Termination

If the Monthly Pre-Processor exit code indicates failure, halt processing of the Main-Processor for the month.

b. Target PGE Termination

If any of the **.met** files are missing from the expected output, this condition must terminate all further Target PGE processing.

1.6 Expected Output Dataset(s)

The expected output datasets for each instance of the PGE are listed in Table 1-6. This PGE is expected to process 1 time, maximum, in a 31-day month.

Table 1-6. Expected Output File Listing for CER5.0P1 (1 of 2)

File Name[a]/Directory	m/o	File Size (MB)	Freq/ PGE	Target PGE	Destination[b]
CER5.0P1_PCF_$SS5_$PS5_$CC5.$YYYYMM @($CERESHOME/sarb/rcf/pcf/sarb)	m	x	1/month	N/A	Archive, rm
CER5.0P1_PCFin_$SS5_$PS5_$CC5.$YYYYMM @($CERESHOME/sarb/rcf/PCFgen/sarb)	m	x	1/month	N/A	Archive, rm
CER5.0P1_LogReport_$SS5_$PS5_$CC5.$YYYYMM @($CERESHOME/sarb/data/runlogs/sarb)	m	x	1/month	N/A	Archive, rm
CER5.0P1_LogStatus_$SS5_$PS5_$CC5.$YYYYMM @($CERESHOME/sarb/data/runlogs/sarb)	m	x	1/month	N/A	Archive, rm
CER5.0P1_LogUser_$SS5_$PS5_$CC5.$YYYYMM @($CERESHOME/sarb/data/runlogs/sarb)	m	x	1/month	N/A	Archive, rm
CER_HMSAL_$SS5_$PS5_$CC5.$YYYYMM (.met) @($CERESHOME/sarb/data/ancillary/dynamic/sarb)	m	4.66	1/month	NONE	Archive, rm

Table 1-6. Expected Output File Listing for CER5.0P1 (2 of 2)

File Name[a]/Directory	m/o	File Size (MB)	Freq/ PGE	Target PGE	Destination[b]
CER_HMPSAL_$SS5_$PS5_$CC5.$YYYYMM(.met) @($CERESHOME/sarb/data/ancillary/dynamic/sarb)	m	4.66	1/month	CER5.1P1	Archive
CER_MQCSA_$SS5_$PS5_$CC5.$YYYYMM (.met) @($CERESHOME/sarb/data/out_comp/qa_reports/sarb)	m	0.02	1/month	NONE	Archive, rm
CER_HMAER_$SS5_$PS5_$CC5.$YYYYMM(.met) @($CERESHOME/sarb/data/ancillary/dynamic/sarb)	m	61.30	1/month	CER5.1P1	Archive

a. See Section 1.2 for information on variable data values
If "**(.met)**" is written next to an expected output filename, then the metadata file **must** exist with the identical filename and .met extension
b. DB - File content is to be entered into the LaTIS Database
/QA - File is to be written to the DAAC designated /QA directory
rm - remove
m - mandatory output
o - optional output
EOD - End of data month

1.7 Expected Temporary Files/Directories.

During execution, up to 31 temporary files are generated by PGE5.0P1. These files are named CER_HDSAL_$SS5_$PS5_$CC5.$DataDay, and are produced by the Surface Albedo Monthly Pre-Processor. During processing, these files are placed in the temporary directory $CERESHOME/sarb/data/scr/CER5.0P1_$SS5_$PS5_$CC5.$YYYYMM. The run script run_press5_sfcalb removes the files and the directory at the end of processing.

2.0 PGEName: CER5.1P1

CER5.1P1 - CERES Instantaneous Surface and Atmospheric Radiation Budget (SARB) Subsystem Main-Processor and HDF Post-Processor

2.1 PGE Details

2.1.1 Responsible Persons

The Subsystem software analysts responsible for the development of PGE CER5.1P1 are listed in Table 2-1.

Table 2-1. Subsystem Software Analysts Contacts

Item	Primary	Alternate
Contact Name	Lisa Coleman	Tom Caldwell
Organization	SAIC	SAIC
Address	1 Enterprise Parkway	1 Enterprise Parkway
City	Hampton	Hampton
State	VA 23666	VA 23666
Phone	(757) 827-4654	(757) 827-4667
Fax	(757) 825-4968	(757) 825-4968
LaRC e-mail	ceresdmt+sarb@larc.nasa.gov	ceresdmt+sarb@larc.nasa.gov

2.1.2 E-mail Distribution List

An E-mail distribution list can be obtained from the primary contact listed in Table 2-1.

2.1.3 Parent PGE(s)

The PGEs listed in Table 2-2 must successfully execute for the specified data set prior to executing PGE CER5.1P1.

.

Table 2-2. Parent PGEs for CER5.1P1

PGEName	Description
CER4.5-6.1P1	Inversion to Instantaneous TOA Fluxes and Surface Fluxes
CER5.0P1	Instantaneous SARB Subsystem Surface Albedo Monthly Pre-Processor
CER12.1P1	Regrid Meteorological, Ozone, and Aerosol (MOA) Subsystem

2.1.4 Target PGE(s)

Table 2-3 lists the PGEs dependent on output from PGE CER5.1P1.

Table 2-3. Target PGEs after CER5.1P1

PGEName	Description
CER5.3P1	Instantaneous SARB Subsystem HDF Post-Processor (on as-needed basis only)
CER5.4P1	Instantaneous SARB Subsystem Monthly QC Post-Processor
CER6.1P1	Grid Single Satellite Fluxes and Clouds and Compute Spatial Averages Processor

2.2 Operating Environment

2.2.1 Runtime Parameters (A List of all Dynamic Parameters needed at Runtime)

The runtime parameters listed in Table 2-4 are required for the instructions given in the remainder of Section 2.0 to process PGE CER5.1P1.

Table 2-4. Runtime Parameters for CER5.1P1 (1 of 2)

Parameter	Description	Data Type	Valid Values
DataDate	Data Date--yyyymmddhh, where yyyy = four-digit year mm = two-digit month dd = two-digit day hh = two-digit hour	I(10), where year = (I4.4) month = (I2.2) day = (I2.2) hour = (I2.2)	 >1996 01 .. 12 01 .. 31 00 .. 23

Table 2-4. Runtime Parameters for CER5.1P1 (2 of 2)

Parameter	Description	Data Type	Valid Values
DataDay	Data Day--yyyymmdd, where yyyy = four-digit year mm = two-digit month dd = two-digit day	I(8), where year = (I4.4) month = (I2.2) day = (I2.2)	 >1996 01 .. 12 01 .. 31
DataMonth	Data Month--yyyymm, where yyyy = four-digit year mm = two-digit month	I(6), where year = (I4.4) month = (I2.2)	 >1996 01 .. 12
PCFinfile	Name of input file to the PCF generator	ASCII	See Section 2.4
PCFname	Name of PCF file	ASCII	See Section 2.4

2.2.2 Environment Script Requirements

Refer to the CERES internal paper (Reference 1) for a detailed description of the CERES environment parameters required by the CERES PGEs.

PGE CER5.1P1 references the environment variable script, **ENV5.1P1-env.csh,** which contains the following parameters:

SS5 - Sampling Strategy for Instantaneous SARB: see Production Request
SS12 - Sampling Strategy for Regrid MOA: see Production Request
SS4_5 - Sampling Strategy for Inversion: see Production Request
PS5 - Production Strategy for Instantaneous SARB: see Production Request
PS12 - Production Strategy for Regrid MOA: see Production Request
PS4_5 - Production Strategy for Inversion: see Production Request
CC5 - Configuration Code for Instantaneous SARB: see CM Database
CC12 - Configuration Code for Regrid MOA: see CM Database
CC4_5 - Configuration Code for Inversion: see CM Database
SW5 - SCCR number for current version of Instantaneous SARB software: see CM Database
DATA5 - SCCR number for current version of Instantaneous SARB input data: see CM Database

2.2.3 Execution Frequency

CER5.1P1 executes once per data hour, whenever all input data for an hour are available. CER5.1P1 executes a maximum total of 744 times per month.

2.2.4 Memory/Disk Space/Time Requirements

Since the number of FOVs actually processed will vary, the time each run takes will vary. Other factors will cause a variation in timing results between runs also. While reasonably representative of the execution times of PGE CER5.1P1, the numbers listed below are based on one data hour only.

	Subset Mode	Full-Hour Mode
Memory:	61088 K	115296 K
Disk Space:	4540 MB	1364 MB
Total Run Time	5:30 minutes	2:43:11 hr

2.2.5 Restrictions Imposed in Processing Order

The Instantaneous SARB Surface Albedo Monthly Pre-Processor, PGE CER5.0P1, must be processed for the month before any executions of PGE CER5.1P1 can be processed. There are no restrictions in processing order within the month for PGE CER5.1P1.

2.3 Processor Dependencies (Previous PGEs, Ingest Data,..)

This section describes the nonancillary input files that are required for PGE CER5.1P1 processing. See Section 2.2 for variable information contained in the listed filenames.

2.3.1 Instantaneous SARB Subsystem Main-Processor

2.3.1.1 Input Dataset Name (#1): CER_SSFB - Hourly Binary SSF

a. Directory Location/Inputs Expected (Including .met files, header files, etc.):

   $CERESHOME/inversion/data/out_comp/data/
   CER_SSFB_$SS4_5_$PS4_5_$CC4_5.$DataDate

   1. Mandatory/optional: **This file(s) is mandatory for all CERES instruments.**
   2. Time Related Dependency: **Input file must be for same hour to be processed.**
   3. Waiting Period: **As soon as available.**

b. Source of Information (Source is PGE name or Ingest Source):

   PGE CER4.5-6P1

c. Alternate Data Set, if one exists (maximum waiting period): **NONE**

d. File Disposition after successful execution: **Remove if all other dependent PGEs have processed.**

e. Typical file size (MB): **189.3**

2.3.1.2 Input Dataset Name (#2): CER_MOA - CERES Hourly Meteorological, Ozone, and Aerosol Ancillary Input Data Set

a. Directory Location/Inputs Expected (Including .met files, Header files, etc.)

$CERESHOME/sarb/data/out_comp/data/regridmoa/
CER_MOA_$SS12_$PS12_$CC12.YYYYMMDDHH,

Where YYYYMMDDHH = $DataDate when HH = 00, 06, 12, or 18

or

CER_MOA_$SS12_$PS12_$CC12.H1
CER_MOA_$SS12_$PS12_$CC12.H2

Where **H1** and **H2** are the ECMWF or DAS data dates (YYYYMMDDhh, where hh=00, 06, 12, 18) that are the closest to DataDate **YYYYMMDDHH**. **H1** must be 0-6 hours earlier than **YYYYMMDDHH**, and **H2** must be 0-6 hours later than **YYYYMMDDHH**. For values of YYYYMMDDHH where HH is greater than 18, the value of H2 will be for hour 00 of the next day.

1. Mandatory/optional: **This file(s) is mandatory for all CERES instruments.**
2. Time Related Dependency: **Input file must correspond to the same hour to be processed--see Part (a) above.**
3. Waiting Period: **As soon as available.**

b. Source of Information (Source PGE name or Ingest Source):

PGE CER12.1P1

c. Alternate Data Set, if one exists (maximum waiting period): **NONE**

d. File Disposition after successful execution: **Remove if all other dependent PGEs have processed.**

e. Typical file size (MB): **13.31**

2.3.1.3 Input Dataset Name (#3): Monthly Surface Albedo History File

a. Directory Location/Inputs Expected

$CERESHOME/sarb/data/ancillary/dynamic/sarb/
CER_HMPSAL_$SS5_$PS5_$CC5.$DataMonth

1. Mandatory/optional: **This file(s) is mandatory for all CERES instruments.**
2. Time Related Dependency: **Input file must be for the same month as data being processed.**
3. Waiting Period: **N/A - As soon as available.**

b. Source of Information (Source PGE name or Ingest Source):

PGE CER 5.0P1

c. Alternate Data Set, if one exists (maximum waiting period): **NONE**

d. File Disposition after successful execution: **Needed for all hours within the same month.**

e. Typical file size (MB): **4.66 MB**

2.3.1.4 Input Dataset Name (#4): CER_HMAER - Interpolated Daily MODIS Aerosol (IMA)

a. Directory Location/Inputs Expected

$CERESHOME/sarb/data/ancillary/dynamic/sarb/ CER_HMAER_$SS5_$PS5_$CC5.$DataMonth

1. Mandatory/optional: **This file is mandatory for Terra and Aqua data sets. This file is not available for TRMM data sets.**

1. Time Related Dependency: **Input file must be for the same month and instrument as data being processed.**

2. Waiting Period: **As soon as available.**

b. Source of Information (Source PGE name or Ingest Source):

PGE CER 5.0P1

c. Alternate Data Set, if one exists (maximum waiting period): **NONE**

d. File Disposition after successful execution: **Needed for all hours within the same month.**

e. Typical file size (MB): **61.30**

2.3.1.5 Input Dataset Name (#1): CER_SSFA - Hourly Binary SSF Supplemental Aerosol Files

a. Directory Location/Inputs Expected (Including .met files, header files, etc.):

$CERESHOME/inversion/data/out_comp/data/ CER_SSFA_$SS4_5_$PS4_5_$CC4_5.$DataDate

1. Mandatory/optional: **This file is mandatory for Terra and Aqua data sets. This file is not available for TRMM data sets.**

2. Time Related Dependency: **Input file must be for same hour to be processed.**

3. Waiting Period: **As soon as available.**

b. Source of Information (Source is PGE name or Ingest Source):

PGE CER4.5-6P1

c. Alternate Data Set, if one exists (maximum waiting period): **NONE**

d. File Disposition after successful execution: **Remove if all other dependent PGEs have processed.**

e. Typical file size (MB): **24.83**

2.3.1.6 Input Dataset Name (#1): MATCH_TERRA_AOTS_MODIS - Daily MATCH Climatological Aerosol Files

a. Directory Location/Inputs Expected (Including .met files, header files, etc.):

$CERESHOME/sarb/data/ancillary/static/sarb/match_aot/ match_aots_$DataMonth/MATCH_TERRA_AOTS_MODIS.$DataDay

1. Mandatory/optional: **This file is mandatory for Terra and Aqua data sets if available. *IF NOT AVAILABLE, CONTACT THE RESPONSIBLE PERSONS LISTED IN TABLE 1-1 BEFORE ATTEMPTING TO RUN WITHOUT THE FILES*. The files may be available, just not delivered to the operational environment. This file is not available for TRMM data sets. At this point in time, no distinction between Terra and Aqua is made in these filenames, i.e., all filenames contain the string "TERRA."**

2. Time Related Dependency: **Input file must be for same day to be processed.**

3. Waiting Period: **As soon as available.**

b. Source of Information (Source is PGE name or Ingest Source):

Provided by responsible persons listed in Table 2-1**, using the CM delivery process.**

c. Alternate Data Set, if one exists (maximum waiting period): **NONE**

d. File Disposition after successful execution: **Retain.**

e. Typical file size (MB): **0.38**

2.4 Operating Procedures (Procedure for each part of the processor's elements)

The Main-Processor production script, runsarb, references a Process Control File (PCF) which contains the correct file names and paths for the PGE. This PCF is created by first executing an ASCII file generator, ascii_gen_5.1P1, and then executing the PCF generator, pcfgen_5.1P1.

2.4.1 How to Generate the ASCII File

The ASCII file name generator requires one command-line argument, $DataDate, as defined in Table 2-4.

At the command-line (denoted by ">") type:

> **cd $CERESHOME/sarb/bin/sarb**
> **ascii_gen_5.1P1 $DataDate**

The following file will be generated in **$CERESHOME/sarb/rcf/PCFgen/sarb/**:

CER5.1P1_PCFin_$SS5_$PS5_$CC5.$DataDate

2.4.2 How to Generate the PCF File

The PCF generator, pcfgen_5.1P1, is executed using the newly created ASCII input file name as a command-line argument. See Section 2.2 for variable information.

At the command-line (denoted by ">") type:

> **cd $CERESHOME/sarb/bin/sarb/**
> **pcfgen_5.1P1 CER5.1P1_PCFin_$SS5_$PS5_$CC5.$DataDate**

The following PCF will be generated in **$CERESHOME/sarb/rcf/pcf/sarb/**:

CER5.1P1_PCF_$SS5_$PS5_$CC5.$DataDate

2.4.3 How to Execute the Main-Processor

Execute the production script by typing the script name, runsarb, followed by a string which designates the name of the required PCF file. See Section 2.2 for variable information.

At the command-line (denoted by ">") type:

> **cd $CERESHOME/sarb/bin/sarb**
> **runsarb CER5.1P1_PCF_$SS5_$PS5_$CC5.$DataDate**

2.4.4 Special Case Considerations

N/A, at this time. Special case considerations will be handled on a case-by-case basis, where special instructions will accompany each special request.

2.4.5 Special Reprocessing Instructions

All output files are opened with Status = NEW in CER5.1P1 software. These files must be removed before reprocessing. The script in the following instructions removes all files generated by the ascii file generator, the PCF generator, and the execution of the Subsystem software.

At the command-line (denoted by ">") type:

> cd $CERESHOME/sarb/bin/sarb
> rm_script_5.1P1 CER5.1P1_PCF_$SS5_$PS5_$CC5.$DataDate

The script, rm_script_5.1P1, removes all files generated by the ASCII file name and PCF generators, along with files generated during the execution of runsarb.

2.5 Execution Evaluation

2.5.1 Exit Codes

The PGE CER5.1P1 terminates using the CERES-defined EXIT CODES for LaTIS as seen in Table 2-5. Other exit codes may appear from the program, which may be the result of a system, compiler, or Toolkit-related error. In these cases, contact the responsible person (see Table 2-1) for assistance.

Table 2-5. Exit Codes for CER5.1P1

Exit Code	Definition	Action
0	Normal Exit	Proceed normally
203	Failure	Check the Log Files and take the appropriate action (see Appendix B)

2.5.2 Screen Messages

When running the production script, runsarb, the system message, "No match," may be written to the screen. This message occurs when the scripts try to remove an old output file that does not exist. This does not signify a problem.

2.5.3 Log and Status Files Results (Include ALL Log Files)

The Log files contain all error and/or status messages produced by the PGE. The files are located in directory: **$CERESHOME/sarb/data/runlogs/sarb**. See Section 2.2 for information on variable fields within the file names.

1. Report Log File: CER5.1P1_LogReport_$SS5_$PS5_$CC5.$DataDate

The Report Log File contains the Instantaneous SARB-related messages. These messages may be strictly informative (Error Type = Notice or Warning) or may indicate a fatal condition that results in premature PGE termination (Error Type = Error). A comprehensive list of these messages, that can be generated during the execution of the PGE, is given in Table B-1.

2. Status Log File: CER5.1P1_LogStatus_$SS5_$PS5_$CC5.$DataDate

The Status Log File contains all messages created by the Toolkit. If an abnormal exit is encountered by the PGE, this file should be examined for '_F_', fatal message type. The responsible person should be advised.

3. User Log File: CER5.1P1_LogUser_$SS5_$PS5_$CC5.$DataDate

The User Log File is not used at this time, but exists to satisfy the Toolkit requirements. Typically the _U_ and _N_ (User information and Notice) will be written to User Log File and Status Log File.

2.5.4 Solutions to Possible Problems

As mentioned in Section 2.4.5, all output files are opened with Status = NEW in the Instantaneous SARB Subsystem Main-Processor software. These files must be removed before reprocessing.

2.5.5 Conditions for Subsystem and/or Target PGE(s) Terminal Failure (Halt all further processing)

a. Subsystem Termination

If one hour fails, continue processing the next hour.

b. Target PGE Termination

If any of the **.met** files are missing from the expected output, this condition must terminate all further Target PGE processing.

2.6 Expected Output Dataset(s)

The expected output datasets for each instance of the PGE are listed in Table 2-6. This PGE is expected to process 744 times, maximum, in a 31-day month.

Table 2-6. Expected Output File Listing for CER5.1P1

File Name[a]/Directory	m/o	File Size (MB)	Freq/ PGE	Target PGE	Destination[b]
CER5.1P1_PCF_$SS5_$PS5_$CC5.$YYYYMMDDHH @($CERESHOME/sarb/rcf/pcf/sarb)	m	x	1/hr	N/A	Archive, rm
CER5.1P1_PCFin_$SS5_$PS5_$CC5.$YYYYMMDDHH @($CERESHOME/sarb/rcf/PCFgen/sarb)	m	x	1/hr	N/A	Archive, rm
CER5.1P1_LogReport_$SS5_$PS5_$CC5.$YYYYMMDDHH @($CERESHOME/sarb/data/runlogs/sarb)	m	x	1/hr	N/A	Archive, rm
CER5.1P1_LogStatus_$SS5_$PS5_$CC5.$YYYYMMDDHH @($CERESHOME/sarb/data/runlogs/sarb)	m	x	1/hr	N/A	Archive, rm
CER5.1P1_LogUser_$SS5_$PS5_$CC5.$YYYYMMDDHH @($CERESHOME/sarb/data/runlogs/sarb)	m	x	1/hr	N/A	Archive, rm
CER_CRSB_$SS5_$PS5_$CC5.$YYYYMMDDHH (.met) @($CERESHOME/sarb/data/out_comp/data/sarb)	m	225.0	1/hr	CER6.1P1, CER5.4P1, CER5.3P1	Archive
CER_CRSVB_$SS5_$PS5_$CC5.$YYYYMMDDHH (.met) @($CERESHOME/sarb/data/out_comp/data/sarb)	m	1.64	1/hr	NONE	Archive, rm
CER_HQCR_$SS5_$PS5_$CC5.$YYYYMMDDHH (.met) @($CERESHOME/sarb/data/out_comp/qa_reports/sarb)	m	.09	1/hr	CER5.4P1	Archive, do not remove
CER_CRS_$SS5_$PS5_$CC5.$YYYYMMDDHH (.met) @($CERESHOME/sarb/data/out_comp/data/sarb)	m	225.0	1/hr	CER5.4P1	Archive, do not remove

a. See Section 2.2 for information on variable data values
If "**(.met)**" is written next to an expected output filename, then the metadata file **must** exist with the identical filename and .met extension
b. VD - Validation Days in 1998 (Jan./5, 12, 19, 26/, Apr./6, 13, 20, 27/, July/6, 13, 20, 27/, Oct./5, 12, 19, 26/)
/QA - File is to be written to the DAAC designated /QA directory
DB - File content is to be entered into the LaTIS Database
rm - remove
m - mandatory output
o - optional output
EOD - End of data month

2.7 Expected Temporary Files/Directories.

There are no temporary files or directories generated by PGE5.1P1.

3.0 PGEName: CER5.3P1

CER5.3P1 - CERES Instantaneous Surface and Atmospheric Radiation Budget (SARB) Subsystem HDF Post-Processor

3.1 PGE Details

3.1.1 Responsible Persons

The Subsystem software analysts responsible for the development of PGE CER5.3P1 are listed in Table 3-1.

Table 3-1. Subsystem Software Analysts Contacts

Item	Primary	Alternate
Contact Name	Lisa Coleman	Tom Caldwell
Organization	SAIC	SAIC
Address	1 Enterprise Parkway	1 Enterprise Parkway
City	Hampton	Hampton
State	VA 23666	VA 23666
Phone	(757) 827-4654	(757) 827-4667
Fax	(757) 825-4968	(757) 825-4968
LaRC e-mail	ceresdmt+sarb@larc.nasa.gov	ceresdmt+sarb@larc.nasa.gov

3.1.2 E-mail Distribution List

An E-mail distribution list can be obtained from the primary contact listed in Table 3-1.

3.1.3 Parent PGE(s)

The PGEs listed in Table 3-2 must successfully execute for the specified data set prior to executing PGE CER5.3P1.

Table 3-2. Parent PGEs for CER5.3P1

PGEName	Description
CER4.5-6.1P1	Inversion to Instantaneous TOA Fluxes and Surface Fluxes
CER5.1P1	Instantaneous SARB Subsystem Main Processor

3.1.4 Target PGE(s)

Table 3-3 lists the PGEs dependent on output from PGE CER5.3P1.

Table 3-3. Target PGEs after CER5.3P1

PGEName	Description
N/A	No CERES PGE uses the CRS as input

3.2 Operating Environment

3.2.1 Runtime Parameters (A List of all Dynamic Parameters needed at Runtime)

The runtime parameters listed in Table 3-4 are required for the instructions given in the remainder of Section 3.0 to process PGE CER5.3P1.

Table 3-4. Runtime Parameters for CER5.3P1

Parameter	Description	Data Type	Valid Values
DataDate	Data Date--yyyymmddhh, where yyyy = four-digit year mm = two-digit month dd = two-digit day hh = two-digit hour	I(10), where year = (I4.4) month = (I2.2) day = (I2.2) hour = (I2.2)	 >1996 01 .. 12 01 .. 31 00 .. 23
PCFinfile	Name of input file to the PCF generator	ASCII	See Section 3.4
PCFname	Name of PCF file	ASCII	See Section 3.4

3.2.2 Environment Script Requirements

Refer to the CERES internal paper (Reference 1) for a detailed description of the CERES environment parameters required by the CERES PGEs.

PGE CER5.1P1 references the environment variable script, **ENV5.3P1-env.csh,** which contains the following parameters:

SS5	-	Sampling Strategy for Instantaneous SARB (CRSB): see Production Request
SS5_3	-	Sampling Strategy for Instantaneous SARB (CRS): see Production Request
SS4_5	-	Sampling Strategy for Inversion (SSFA): see Production Request
PS5	-	Production Strategy for Instantaneous SARB (CRSB): see Production Request
PS5_3	-	Production Strategy for Instantaneous SARB (CRS): see Production Request
PS4_5	-	Production Strategy for Inversion (SSFA): see Production Request
CC5	-	Configuration Code for Instantaneous SARB (CRSB): see CM Database
CC5_3	-	Configuration Code for Instantaneous SARB (CRS): see CM Database
CC4_5	-	Configuration Code for Inversion (SSFA): see CM Database
SW5_3	-	SCCR number for current version of Instantaneous SARB software: see CM Database
DATA5_3	-	SCCR number for current version of Instantaneous SARB input data: see CM Database

3.2.3 Execution Frequency

CER5.3P1 executes once per data hour, whenever all input data for an hour are available. CER5.3P1 executes a maximum total of 744 times per month. CER5.3P1 is not routinely processed. A production request from the cognizant CERES personnel will indicate when to process CER5.3P1.

3.2.4 Memory/Disk Space/Time Requirements

Since the number of FOVs actually processed will vary, the time each run takes will vary. Other factors will cause a variation in timing results between runs also. While reasonably representative of the execution times of PGE CER5.3P1, the numbers listed below are based on one data hour only.

Memory:	157928 K
Disk Space:	458 MB
Total Run Time	2:19 minutes

3.2.5 Restrictions Imposed in Processing Order

There are no restrictions in processing order within the month for PGE CER5.3P1.

3.3 Processor Dependencies (Previous PGEs, Ingest Data,..)

This section describes the nonancillary input files that are required for PGE CER5.3P1 processing. See Section 3.2 for variable information contained in the listed filenames.

3.3.1 Instantaneous SARB Subsystem Post-Processor

3.3.1.1 Input Dataset Name (#1): CER_CRSB - Hourly Binary CRS Files

a. Directory Location/Inputs Expected (Including .met files, header files, etc.):

   $CERESHOME/sarb/data/out_comp/data/sarb/
   CER_CRSB_$SS5_$PS5_$CC5.$DataDate

   1. Mandatory/optional: **This file(s) is mandatory for all CERES instruments.**
   2. Time Related Dependency: **Input file must be for same hour to be processed.**
   3. Waiting Period: **As soon as available.**

b. Source of Information (Source is PGE name or Ingest Source):

   PGE CER5.1P1

c. Alternate Data Set, if one exists (maximum waiting period): **NONE**

d. File Disposition after successful execution: **Remove if all other dependent PGEs have processed.**

e. Typical file size (MB): **225**

3.3.1.2 Input Dataset Name (#1): CER_SSFA - Hourly Binary SSF Supplemental Aerosol Files

a. Directory Location/Inputs Expected (Including .met files, header files, etc.):

   $CERESHOME/inversion/data/out_comp/data/
   CER_SSFA_$SS4_5_$PS4_5_$CC4_5.$DataDate

   1. Mandatory/optional: **This file is mandatory for Terra and Aqua data sets. This file is not available for TRMM data sets.**
   2. Time Related Dependency: **Input file must be for same hour to be processed.**
   3. Waiting Period: **As soon as available.**

b. Source of Information (Source is PGE name or Ingest Source):

   PGE CER4.5-6P1

c. Alternate Data Set, if one exists (maximum waiting period): **NONE**

d. File Disposition after successful execution: **Remove if all other dependent PGEs have processed.**

e. Typical file size (MB): **24.83**

3.4 Operating Procedures (Procedure for each part of the processor's elements)

The Post-Processor production script, runsarb_post, references a Process Control File (PCF) which contains the correct file names and paths for the PGE. This PCF is created by first executing an ASCII file generator, ascii_gen_5.3P1, and then executing the PCF generator, pcfgen_5.3P1.

3.4.1 How to Generate the ASCII File

The ASCII file name generator requires one command-line argument, $DataDate, as defined in Table 3-4.

At the command-line (denoted by ">") type:

> **cd $CERESHOME/sarb/bin/sarb**
> **ascii_gen_5.3P1 $DataDate**

The following file will be generated in **$CERESHOME/sarb/rcf/PCFgen/sarb/**:

CER5.3P1_PCFin_$SS5_3_$PS5_3_$CC5_3.$DataDate

3.4.2 How to Generate the PCF File

The PCF generator, pcfgen_5.3P1, is executed using the newly created ASCII input file name as a command-line argument. See Section 3.2 for variable information.

At the command-line (denoted by ">") type:

> **cd $CERESHOME/sarb/bin/sarb/**
> **pcfgen_5.3P1 CER5.3P1_PCFin_$SS5_3_$PS5_3_$CC5_3.$DataDate**

The following PCF will be generated in **$CERESHOME/sarb/rcf/pcf/sarb/**:

CER5.3P1_PCF_$SS5_3_$PS5_3_$CC5_3.$DataDate

3.4.3 How to Execute the Post-Processor

Execute the production script by typing the script name, runsarb_post, followed by a string which designates the name of the required PCF file. See Section 3.2 for variable information.
At the command-line (denoted by ">") type:

> cd $CERESHOME/sarb/bin/sarb
> runsarb_post CER5.3P1_PCF_$SS5_3_$PS5_3_$CC5_3.$DataDate

3.4.4 Special Case Considerations

N/A, at this time. Special case considerations will be handled on a case-by-case basis, where special instructions will accompany each special request.

3.4.5 Special Reprocessing Instructions

All output files are opened with Status = NEW in CER5.3P1 software. These files must be removed before reprocessing. The script in the following instructions removes all files generated by the ascii file generator, the PCF generator, and the execution of the Subsystem software.

At the command-line (denoted by ">") type:

> cd $CERESHOME/sarb/bin/sarb
> rm_script_5.3P1 CER5.3P1_PCF_$SS5_3_$PS5_3_$CC5_3.$DataDate

The script, rm_script_5.3P1, removes all files generated by the ASCII file name and PCF generators, along with files generated during the execution of runsarb_post.

3.5 Execution Evaluation

3.5.1 Exit Codes

The PGE CER5.3P1 terminates using the CERES-defined EXIT CODES for LaTIS as seen in Table 3-5. Other exit codes may appear from the program, which may be the result of a system, compiler, or Toolkit-related error. In these cases, contact the responsible person (see Table 3-1) for assistance.

Table 3-5. Exit Codes for CER5.3P1

Exit Code	Definition	Action
0	Normal Exit	Proceed normally
203	Failure	Check the Log Files and take the appropriate action (see Appendix B)

3.5.2 Screen Messages

When running the production script, runsarb, the system message, "No match," may be written to the screen. This message occurs when the scripts try to remove an old output file that does not exist. This does not signify a problem.

3.5.3 Log and Status Files Results (Include ALL Log Files)

The Log files contain all error and/or status messages produced by the PGE. The files are located in directory: **$CERESHOME/sarb/data/runlogs/sarb**. See Section 3.2 for information on variable fields within the file names.

1. Report Log File: CER5.3P1_LogReport_$SS5_3_$PS5_3_$CC5_3.$DataDate

The Report Log File contains the Instantaneous SARB-related messages. These messages may be strictly informative (Error Type = Notice or Warning) or may indicate a fatal condition that results in premature PGE termination (Error Type = Error). A comprehensive list of these messages, that can be generated during the execution of the PGE, is given in Table B-1.

2. Status Log File: CER5.3P1_LogStatus_$SS5_3_$PS5_3_$CC5_3.$DataDate

The Status Log File contains all messages created by the Toolkit. If an abnormal exit is encountered by the PGE, this file should be examined for '_F_', fatal message type. The responsible person should be advised.

3. User Log File: CER5.3P1_LogUser_$SS5_3_$PS5_3_$CC5_3.$DataDate

The User Log File is not used at this time, but exists to satisfy the Toolkit requirements. Typically the _U_ and _N_ (User information and Notice) will be written to User Log File and Status Log File.

3.5.4 Solutions to Possible Problems

As mentioned in Section 3.4.5, all output files are opened with Status = NEW in the Instantaneous SARB Subsystem Main-Processor software. These files must be removed before reprocessing.

3.5.5 Conditions for Subsystem and/or Target PGE(s) Terminal Failure (Halt all further processing)

a. Subsystem Termination

If one hour fails, continue processing the next hour.

b. Target PGE Termination

If any of the **.met** files are missing from the expected output, this condition must terminate all further Target PGE processing.

3.6 Expected Output Dataset(s)

The expected output datasets for each instance of the PGE are listed in Table 3-6. This PGE is expected to process 744 times, maximum, in a 31-day month.

Table 3-6. Expected Output File Listing for CER5.3P1

File Name[a]/Directory	m/o	File Size (MB)	Freq/ PGE	Target PGE	Destination[b]
CER5.3P1_PCF_$SS5_3_$PS5_3_$CC5_3.$YYYYMMDDHH @($CERESHOME/sarb/rcf/pcf/sarb)	m	x	1/hr	N/A	Archive, rm
CER5.3P1_PCFin_$SS5_3_$PS5_3_$CC5_3.$YYYYMMDDHH @($CERESHOME/sarb/rcf/PCFgen/sarb)	m	x	1/hr	N/A	Archive, rm
CER5.3P1_LogReport_$SS5_3_$PS5_3_$CC5_3.$YYYYMM DDHH@($CERESHOME/sarb/data/runlogs/sarb)	m	x	1/hr	N/A	Archive, rm
CER5.3P1_LogStatus_$SS5_3_$PS5_3_$CC5_3.$YYYYMM DDHH@($CERESHOME/sarb/data/runlogs/sarb)	m	x	1/hr	N/A	Archive, rm
CER5.3P1_LogUser_$SS5_3_$PS5_3_$CC5_3.$YYYYMM DDHH@($CERESHOME/sarb/data/runlogs/sarb)	m	x	1/hr	N/A	Archive, rm
CER_CRS_$SS5_3_$PS5_3_$CC5_3.$YYYYMMDDHH (.met) @($CERESHOME/sarb/data/out_comp/data/sarb)	m	225.0	1/hr	NONE	Archive, rm

a. See Section 3.2 for information on variable data values
If "**(.met)**" is written next to an expected output filename, then the metadata file **must** exist with the identical filename and .met extension
b. VD - Validation Days in 1998 (Jan./5, 12, 19, 26/, Apr./6, 13, 20, 27/, July/6, 13, 20, 27/, Oct./5, 12, 19, 26/)
/QA - File is to be written to the DAAC designated /QA directory
DB - File content is to be entered into the LaTIS Database
rm - remove
m - mandatory output
o - optional output
EOD - End of data month

3.7 Expected Temporary Files/Directories.

There are no temporary files or directories generated by PGE5.3P1.

4.0 PGEName: CER5.4P1

CER5.4P1 - CERES Instantaneous Surface and Atmospheric Radiation Budget (SARB) Subsystem Monthly Quality Control (QC) Summary Post-Processor

4.1 PGE Details

4.1.1 Responsible Persons

The Subsystem software analysts responsible for the development of PGE CER5.4P1 are listed in Table 4-1.

Table 4-1. Subsystem Software Analysts Contacts

Item	Primary	Alternate
Contact Name	Lisa Coleman	Tom Caldwell
Organization	SAIC	SAIC
Address	1 Enterprise Parkway	1 Enterprise Parkway
City	Hampton	Hampton
State	VA 23666	VA 23666
Phone	(757) 827-4654	(757) 827-4667
Fax	(757) 825-4968	(757) 825-4968
LaRC e-mail	ceresdmt+sarb@larc.nasa.gov	ceresdmt+sarb@larc.nasa.gov

4.1.2 E-mail Distribution List

An E-mail distribution list can be obtained from the primary contact listed in Table 4-1.

4.1.3 Parent PGE(s)

The PGEs listed in Table 4-2 must successfully execute for the specified data set prior to executing PGE CER5.4P1.

Table 4-2. Parent PGEs for CER5.4P1

PGEName	Description
CER5.1P1	Instantaneous SARB Subsystem Main-Processor

4.1.4 Target PGE(s)

Table 4-3 lists the PGEs dependent on output from PGE CER5.4P1.

Table 4-3. Target PGEs after CER5.4P1

PGEName	Description
N/A	No CERES PGE uses output from CER5.4P1 as input

4.2 Operating Environment

4.2.1 Runtime Parameters (A List of all Dynamic Parameters needed at Runtime)

The runtime parameters listed in Table 4-4 are required for the instructions given in the remainder of Section 4.0 to process PGE CER5.4P1.

Table 4-4. Runtime Parameters for CER5.4P1

Parameter	Description	Data Type	Valid Values
DataMonth	Data Month--yyyymm, where yyyy = four-digit year mm = two-digit month	I(6), where year = (I4.4) month = (I2.2)	 >1996 01 .. 12
PCFinfile	Name of input file to the PCF generator	ASCII	See Section 4.4
PCFname	Name of PCF file	ASCII	See Section 4.4

4.2.2 Environment Script Requirements

Refer to the CERES internal paper (Reference 1) for a detailed description of the CERES environment parameters required by the CERES PGEs.

PGE CER5.4P1 references the environment variable script, **ENV5.4P1-env.csh,** which contains the following parameters:

SS5	-	Sampling Strategy for Instantaneous SARB (CRSB): see Production Request
PS5	-	Production Strategy for Instantaneous SARB (CRSB): see Production Request
CC 5	-	Configuration Code for Instantaneous SARB (CRSB): see CM Database
CC5_4	-	Configuration Code for Instantaneous SARB Post Processor: see CM Database
SW5	-	SCCR number for current version of Instantaneous SARB software: see CM Database
DATA5	-	SCCR number for current version of Instantaneous SARB input data: see CM Database

4.2.3 Execution Frequency

CER5.4P1 executes once per data month, whenever all hourly input data for the month are available.

4.2.4 Memory/Disk Space/Time Requirements

Since the number of hours actually processed per month will vary, the time each run takes will vary. Other factors will cause a variation in timing results between runs also. While reasonably representative of the execution times of PGE CER5.4P1, the numbers listed below are based on one data month only.

Memory:	22392 K
Disk Space:	1353 MB
Total Run Time	7:48 minutes

4.2.5 Restrictions Imposed in Processing Order

There are no restrictions in processing order within the month for PGE CER5.4P1.

4.3 Processor Dependencies (Previous PGEs, Ingest Data,..)

This section describes the nonancillary input files that are required for PGE CER5.4P1 processing. See Section 4.2 for variable information contained in the listed filenames.

4.3.1 Instantaneous SARB Subsystem Post-Processor

4.3.1.1 Input Dataset Name (#1): Pair: CER_CRSB - Hourly Binary CRS and CER_CRSB - Hourly CRS

a. Directory Location/Inputs Expected (Including .met files, header files, etc.):

$CERESHOME/sarb/data/out_comp/data/sarb/
Pair1:
CER_CRSB_$SS5_$PS5_$CC5.$DataMonth"0106"
CER_CRS_$SS5_$PS5_$CC5.$DataMonth"0106"

Pair2:
CER_CRSB_$SS5_$PS5_$CC5.$DataMonth"0809"
CER_CRS_$SS5_$PS5_$CC5.$DataMonth"0809"

Pair3:
CER_CRSB_$SS5_$PS5_$CC5.$DataMonth"1415"
CER_CRS_$SS5_$PS5_$CC5.$DataMonth"1415"

Pair4:
CER_CRSB_$SS5_$PS5_$CC5.$DataMonth"2118"
CER_CRS_$SS5_$PS5_$CC5.$DataMonth"2118"

Pair5:
CER_CRSB_$SS5_$PS5_$CC5.$DataMonth"3023"
CER_CRS_$SS5_$PS5_$CC5.$DataMonth"3023"

1. Mandatory/optional: **The availability of at least one complete pair of files is mandatory. A set of routine hours throughout a data month were chosen at the time of delivery so that a decision regarding which hours to verify is not required each month. Multiple hours were chosen because for any month any hour could not be available, and with five routine hours the odds of having at least one pair available are greatly increased.**
2. Time Related Dependency: **Input files must be for same month to be processed.**
3. Waiting Period: **As soon as available.**

b. Source of Information (Source is PGE name or Ingest Source):

PGE CER5.1P1

c. Alternate Data Set, if one exists (maximum waiting period): **NONE**

d. File Disposition after successful execution: **Remove if all other dependent PGEs have processed.**

e. Typical file size (MB): **CRSB - 225, CRS - 105**

4.3.1.2 Input Dataset Name (#1): CER_HQCR - Hourly QC Report Files

a. Directory Location/Inputs Expected (Including .met files, header files, etc.):

   $CERESHOME/sarb/data/out_comp/qa_reports/sarb/
   CER_HQCR_$SS5_$PS5_$CC5.$DataMonthddhh

   where $dd= 01 .. 31
   $hh = 00 .. 23

   1. Mandatory/optional: **These files are mandatory if available. NOTE: At least two QC report files are necessary for a successful run.**
   2. Time Related Dependency: **Input files must be for same month to be processed.**
   3. Waiting Period: **As soon as all HQCR files for the month are available.**

b. Source of Information (Source is PGE name or Ingest Source):

   PGE CER5.1P1

c. Alternate Data Set, if one exists (maximum waiting period): **NONE**

d. File Disposition after successful execution: **Remove if all other dependent PGEs have processed.**

e. Typical file size (MB): **0.1**

4.4 Operating Procedures (Procedure for each part of the processor's elements)

The QC Summary Post-Processor production script, run_postss5_mqc, references a Process Control File (PCF) which contains the correct file names and paths for the PGE. This PCF is created by first executing an ASCII file generator, ascii_gen_5.4P1, and then executing the PCF generator, pcfgen_5.4P1.

4.4.1 How to Generate the ASCII File

The ASCII file name generator requires one command-line argument, $DataMonth, as defined in Table 4-4.

At the command-line (denoted by ">") type:

> **cd $CERESHOME/sarb/bin/sarb**
> **ascii_gen_5.4P1 $DataMonth**

The following file will be generated in **$CERESHOME/sarb/rcf/PCFgen/sarb/**:

CER5.4P1_PCFin_$SS5_$PS5_$CC5_4.$DataMonth

4.4.2 How to Generate the PCF File

The PCF generator, pcfgen_5.4P1, is executed using the newly created ASCII input file name as a command-line argument. See Section 4.2 for variable information.

At the command-line (denoted by ">") type:

> cd $CERESHOME/sarb/bin/sarb/
> pcfgen_5.4P1 CER5.4P1_PCFin_$SS5_$PS5_$CC5_4.$DataMonth

The following PCF will be generated in **$CERESHOME/sarb/rcf/pcf/sarb/**:

CER5.4P1_PCF_$SS5_$PS5_$CC5_4.$DataMonth

4.4.3 How to Execute the Monthly QC Post-Processor

Execute the production script by typing the script name, run_postss5, followed by a string which designates the name of the required PCF file. See Section 4.2 for variable information.
At the command-line (denoted by ">") type:

> cd $CERESHOME/sarb/bin/sarb
> run_postss5 CER5.4P1_PCF_$SS5_$PS5_$CC5_4.$DataMonth

4.4.4 Special Case Considerations

N/A, at this time. Special case considerations will be handled on a case-by-case basis, where special instructions will accompany each special request.

4.4.5 Special Reprocessing Instructions

All output files are opened with Status = NEW in CER5.4P1 software. These files must be removed before reprocessing. The script in the following instructions removes all files generated by the ascii file generator, the PCF generator, and the execution of the Subsystem software.

At the command-line (denoted by ">") type:

> cd $CERESHOME/sarb/bin/sarb
> rm_script_5.4P1 CER5.4P1_PCF_$SS5_$PS5_$CC5_4.$DataMonth

The script, rm_script_5.4P1, removes all files generated by the ASCII file name and PCF generators, along with files generated during the execution of runsarb_post.

4.5 Execution Evaluation

4.5.1 Exit Codes

The PGE CER5.4P1 terminates using the CERES-defined EXIT CODES for LaTIS as seen in Table 4-5. Other exit codes may appear from the program, which may be the result of a system, compiler, or Toolkit-related error. In these cases, contact the responsible person (see Table 4-1) for assistance.

Table 4-5. Exit Codes for CER5.4P1

Exit Code	Definition	Action
0	Normal Exit	Proceed normally
203	Failure	Check the Log Files and take the appropriate action (see Appendix B)

4.5.2 Screen Messages

When running the production script, runsarb, the system message, "No match," may be written to the screen. This message occurs when the scripts try to remove an old output file that does not exist. This does not signify a problem.

4.5.3 Log and Status Files Results (Include ALL Log Files)

The Log files contain all error and/or status messages produced by the PGE. The files are located in directory: **$CERESHOME/sarb/data/runlogs/sarb**. See Section 4.2 for information on variable fields within the file names.

1. Report Log File: CER5.4P1_LogReport_$SS5_$PS5_$CC5_4.$DataMonth

The Report Log File contains the Instantaneous SARB-related messages. These messages may be strictly informative (Error Type = Notice or Warning) or may indicate a fatal condition that results in premature PGE termination (Error Type = Error). A comprehensive list of these messages, that can be generated during the execution of the PGE, is given in Table B-1.

2. Status Log File: CER5.4P1_LogStatus_$SS5_$PS5_$CC5_4.$DataMonth

The Status Log File contains all messages created by the Toolkit. If an abnormal exit is encountered by the PGE, this file should be examined for '_F_', fatal message type. The responsible person should be advised.

3. User Log File: CER5.4P1_LogUser_$SS5_$PS5_$CC5_4.$DataMonth

The User Log File is not used at this time, but exists to satisfy the Toolkit requirements. Typically the _U_ and _N_ (User information and Notice) will be written to User Log File and Status Log File.

4.5.4 Solutions to Possible Problems

As mentioned in Section 4.4.5, all output files are opened with Status = NEW in the Instantaneous SARB Subsystem Main-Processor software. These files must be removed before reprocessing.

4.5.5 Conditions for Subsystem and/or Target PGE(s) Terminal Failure (Halt all further processing)

a. Subsystem Termination

If one month fails, continue processing the next month.

b. Target PGE Termination

N/A

4.6 Expected Output Dataset(s)

The expected output datasets for each instance of the PGE are listed in Table 4-6. This PGE is expected to process once per data month.

Table 4-6. Expected Output File Listing for CER5.4P1(1 of 2)

File Name[a]/Directory	m/o	File Size (KB)	Freq/ PGE	Target PGE	Destination[b]
CER5.4P1_PCF_$SS5_$PS5_$CC5_4.$YYYYMM @($CERESHOME/sarb/rcf/pcf/sarb)	m	x	1/mn	N/A	Archive, rm
CER5.4P1_PCFin_$SS5_$PS5_$CC5_4.$YYYYMM @($CERESHOME/sarb/rcf/PCFgen/sarb)	m	x	1/mn	N/A	Archive, rm
CER5.4P1_LogReport_$SS5_$PS5_$CC5_4.$YYYYMM @($CERESHOME/sarb/data/runlogs/sarb)	m	x	1/mn	N/A	Archive, rm
CER5.4P1_LogStatus_$SS5_$PS5_$CC5_4.$YYYYMM @($CERESHOME/sarb/data/runlogs/sarb)	m	x	1/mn	N/A	Archive, rm
CER5.4P1_LogUser_$SS5_$PS5_$CC5_4.$YYYYMM @($CERESHOME/sarb/data/runlogs/sarb)	m	x	1/mn	N/A	Archive, rm
CER_HMAVAIL_$SS5_$PS5_$CC5_4.$YYYYMM @($CERESHOME/sarb/data/out_comp/qa_reports/sarb)	m	2.9	1/mn	NONE	Archive, rm

Table 4-6. Expected Output File Listing for CER5.4P1(2 of 2)

File Name[a]/Directory	m/o	File Size (KB)	Freq/ PGE	Target PGE	Destination[b]
CER_HMRV_$SS5_$PS5_$CC5_4.$YYYYMM @($CERESHOME/sarb/data/out_comp/qa_reports/sarb)	m	2.9	1/mn	NONE	Archive, rm
CER_HMQCR_$SS5_$PS5_$CC5_4.$YYYYMM @($CERESHOME/sarb/data/out_comp/qa_reports/sarb)	m	267	1/mn	NONE	Archive, rm
CER_HQCP_$SS5_$PS5_$CC5_4.$YYYYMM.tar.gz @($CERESHOME/sarb/data/out_comp/qa_reports/sarb)	m	18 (MB)	1/mn	NONE	Archive, rm

a. See Section 4.2 for information on variable data values
If "**(.met)**" is written next to an expected output filename, then the metadata file **must** exist with the identical filename and .met extension
b. VD - Validation Days in 1998 (Jan./5, 12, 19, 26/, Apr./6, 13, 20, 27/, July/6, 13, 20, 27/, Oct./5, 12, 19, 26/)
/QA - File is to be written to the DAAC designated /QA directory
DB - File content is to be entered into the LaTIS Database
rm - remove
m - mandatory output
o - optional output
EOD - End of data month

4.7 Expected Temporary Files/Directories.

The expected temporary files for each instance of the PGE are listed in Table 4-7. This PGE is expected to process once per data month.

Table 4-7. Expected Temporary File Listing for CER5.4P1

Day:Hour	Temporary CRSB files @($CERESHOME/sarb/data/scr)	Temporary HCOMP files @($CERESHOME/sarb/data/scr)
01:06	CER_CRSB_$SS5_$PS5_$CC5_4.$YYYYMM"0106"	CER_HCOMP_$SS5_$PS5_$CC5_4.$YYYYMM"0106"
08:09	CER_CRSB_$SS5_$PS5_$CC5_4.$YYYYMM"0809"	CER_HCOMP_$SS5_$PS5_$CC5_4.$YYYYMM"0809"
14:15	CER_CRSB_$SS5_$PS5_$CC5_4.$YYYYMM"1415"	CER_HCOMP_$SS5_$PS5_$CC5_4.$YYYYMM"1415"
21:18	CER_CRSB_$SS5_$PS5_$CC5_4.$YYYYMM"2118"	CER_HCOMP_$SS5_$PS5_$CC5_4.$YYYYMM"2118"
30:23	CER_CRSB_$SS5_$PS5_$CC5_4.$YYYYMM"3023"	CER_HCOMP_$SS5_$PS5_$CC5_4.$YYYYMM"3023"

References

1. CERES Internal Paper, "Proposal for Semi-Automated Sampling Strategy, Production Strategy, and Configuration Code Implementation." URL:http://asd-www.larc.nasa.gov/ceres/intern_doc/

Appendix A
Acronyms and Abbreviations

ASDC	Atmospheric Sciences Data Center
CERES	Clouds and the Earth's Radiant Energy System
CRS	Cloud Radiative Swath
CRSB	Cloud Radiative Swath Binary
DAAC	Distributed Active Archive Center
EOS	Earth Observing System
EOS-AM	EOS Morning Crossing Mission
EOS-PM	EOS Afternoon Crossing Mission
ERBE	Earth Radiation Budget Experiment
ERBS	Earth Radiation Budget Satellite
GFDL	Geophysical Fluid Dynamics Laboratory
GSFC	Goddard Space Flight Center
HDF	Hierarchical Data Format
IMA	Interpolated Daily MODIS Aerosol
LaTIS	Langley TRMM Information System
MB	Megabytes
met	metadata file
∝m	microns
MOA	Meteorological, Ozone, and Aerosol
MODIS	Moderate Resolution Imaging Spectrometer
N/A	Not Applicable
NASA	National Aeronautics and Space Administration
NOAA	National Oceanic and Atmospheric Administration
PCF	Process Control File
PGE	Product Generation Executives
QC	Quality Control
SAH	Surface Albedo History
SAIC	Science Applications International Corporation
SARB	Surface and Atmospheric Radiation Budget
SMF	Status Message File
SSF	Single Satellite CERES Footprint TOA and Surface Fluxes, Clouds
SSFA	Single Satellite CERES Footprint TOA and Surface Fluxes, Clouds, Aerosols
SSFB	Single Satellite CERES Footprint TOA and Surface Fluxes, Clouds Binary
TOA	Top-of-Atmosphere

TRMM	Tropical Rainfall Measuring Mission
VD	Validation Days

Appendix B
Error Messages for Subsystem 5.0

Appendix B contains a comprehensive list of messages that can be generated during the execution of PGEs CER5.0P1, and CER5.1P1. These messages are used to inform the operator or analyst of specific circumstances encountered during data processing. These messages may be strictly informative (Error Type = Notice or Warning), or may indicate a fatal condition that results in premature PGE termination (Error Type = Error). All messages are written to the LogReport file and/or the LogStatus File of the processing instance.

Table B-1 contains a list of the diagnostic messages for PGEs CER5.0P1, and CER5.1P1 (Main-Processor only). Table B-2 contains a list of the PGE CER5.1P1 HDF Post-Processor diagnostic messages. Each table entry includes the message pneumonic, a brief description of the error, and the recommended action that should be taken when the message is encountered. The message pneumonic indicates the error type.

NOTE: Some messages may be generated from any one of multiple origins within the software. Instead of repeating the messages for each possible origin, these messages are simply preceded with "_____(),” and are located last in the table.

Operator Instructions:

If a PGE prematurely terminates, then take the following steps:

1. Look at the last few records on the LogStatus file.
2. Find the error message in the following Error Message listing(s), and follow the appropriate ACTION

   ACTION CODE = 1 ; Verify that file exists
   = 2 ; Verify that the file size is correct
   = 3 ; Check the ASCII input file and PCF file for correctness
   = 4 ; No Action, call the Responsible Person in Table 1-1 for PGE CER5.0P1, or Table 2-1 for PGE CER5.1P1
   = 5 ; No Action, the PGE's QC report notifies the responsible person

3. If an error message is not in the LogStatus File, then repeat steps 1 and 2 using the LogReport File.
4. If no information is derived, then call the responsible person (see ACTION CODE 4).
5. If the appropriate ACTION failed, then call the responsible person (see ACTION CODE 4).
6. In all cases, log all steps that were taken after the PGE failure, and send a copy to the responsible person (see ACTION CODE 4).

B.1 Error Messages for PGEs CER5.0P1, and CER5.1P1

Table B-1. TK (SMF) Utility Message Table for PGEs CER5.0P1, and CER5.1P1 (1 of 9)

Error Message/Description	Action Code
AerClim_OpenDrive (): Error ... Could not read MATCH data Error retrieving Collins aerosol climatology static ancillary input data filename from PCF	1,3
AerClim_OpenDrive (): Error ... Could not retrieve filename Error retrieving Collins aerosol climatology static ancillary input data filename from PCF	3
AerClim_OpenDrive (): Error ... Determining existence of Aer file Error determining the existence of the Collins aerosol climatology static ancillary input data file	3
DailySA_Close (): Error ... Cannot close daily SA file Error closing daily surface albedo history file	2,3
DailySA_Open (): Error ... Cannot open daily SA file Error opening a daily surface albedo history input file.	1,3
DailySA_Open (): Error ... Cannot read daily SA header Error reading a header record on a daily surface albedo history file	4
DailySA_Open (): Error ... Determining existence of file Error determining the existence of an input file	4
DailySA_Open (): Error ... Retrieving name of SA file Error retrieving daily surface albedo history input filename from PCF	3
DailySA_Process ( ): Error ... Cannot read daily SA file Error reading a daily surface albedo history input file	2,3
DataDate_Retrieve (): Error ... Retrieval of Day from PCF Error retrieving the data day from the PCF	3
DataDate_Retrieve (): Error ... Retrieval of Month from PCF Error retrieving the data month from the PCF	3
DataDate_Retrieve (): Error ... Retrieval of Year from PCF Error retrieving the data year from the PCF	3
Deriv_Init(): Error ... Unable to open DrivTab file Error opening derivative table input file; PCF logic ID # 1	1
dt_load(): Error ... bt read error Error reading the derivative tables from the static ancillary file; PCF logic ID # 1	2,3
dt_load(): Error ... ntbl is greater than maxsubtab Error reading the number of derivative tables from static ancillary file; PCF logic ID # 1	2,3
dt_load(): Error ... ntbl read error Error reading the derivative tables from the static ancillary file; PCF logic ID # 1	2,3
dt_load(): Error ... nword read error Error reading the sizes of the derivative tables from static ancillary file; PCF logic ID # 1	2,3

Table B-1. TK (SMF) Utility Message Table for PGEs CER5.0P1, and CER5.1P1 (2 of 9)

Error Message/Description	Action Code
dt_tune_mem(): Warning ... Error in cloud fractional area adjustment Error encountered in constrainment algorithm for indicated FOV. Store values from initial pass on output. Processing for current hour continues with next FOV.	5
Finish_DailyPre5 (): Error ... Cannot close daily SA file Error closing daily surface albedo history file	2,3
Finish5(): Error ... SSF close failed Error closing primary input file; PCF Logic ID # 112	4
FLSA_LUT_Ingest (): Error ... Cannot close FLSALUT file Cannot close Fu-Liou Surface Albedo Lookup table input file	2,3
FLSA_LUT_Ingest (): Error ... Cannot open FLSALUT file Cannot open Fu-Liou Surface Albedo Lookup table input file	1,3
FLSA_LUT_Ingest (): Error ... Cannot read FLSALUT file Cannot read Fu-Liou Surface Albedo Lookup table input file	2,3
FluxRange_Check(): Warning ... Constr Dir/Diff Invalid Invalid direct/diffuse ratio value from constrained pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Constr Dn LW Clr Invalid Invalid LW downwards clear sky flux profile value from constrained pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Constr Dn LW Tot Invalid Invalid LW downwards total sky flux profile value from constrained pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Constr Dn SW Clr Invalid Invalid SW downwards clear sky flux profile value from constrained pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Constr Dn SW Tot Invalid Invalid SW downwards total sky flux profile value from constrained pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Constr Up LW Clr Invalid Invalid LW upwards clear sky flux profile value from constrained pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Constr Up LW Tot Invalid Invalid LW upwards total sky flux profile value from constrained pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Constr Up SW Clr Invalid Invalid SW upwards clear sky flux profile value from constrained pass for indicated FOV. Processing for current hour continues with next FOV.	5

Table B-1. TK (SMF) Utility Message Table for PGEs CER5.0P1, and CER5.1P1 (3 of 9)

Error Message/Description	Action Code
FluxRange_Check(): Warning ... Constr Up SW Tot Invalid Invalid SW upwards total sky flux profile value from constrained pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Constr Up SW Tot Invalid Invalid SW upwards total sky flux profile value from constrained pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Init Dir/Diff Invalid Invalid direct/diffuse ratio value from initial pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Initial Dn LW Clr Invalid Invalid LW downwards clear sky flux profile value from initial pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Initial Dn LW Tot Invalid Invalid LW downwards total sky flux profile value from initial pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Initial Dn SW Clr Invalid Invalid SW downwards clear sky flux profile value from initial pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Initial Dn SW Tot Invalid Invalid SW downwards total sky flux profile value from initial pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Initial Up LW Clr Invalid Invalid LW upwards clear sky flux profile value from initial pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Initial Up LW Tot Invalid Invalid LW upwards total sky flux profile value from initial pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Initial Up SW Clr Invalid Invalid SW upwards clear sky flux profile value from initial pass for indicated FOV. Processing for current hour continues with next FOV.	5
FluxRange_Check(): Warning ... Initial Up SW Tot Invalid Invalid SW upwards total sky flux profile value from initial pass for indicated FOV. Processing for current hour continues with next FOV.	5
FOV_Process () Error ... Cannot read SSF input file Error reading SSF input file	2,3
FOV_Process () Error ... Writing record to output Error writing a record to the daily surface albedo history output file	4
GADSAer_Ingest (): Error ... Sbr. GADSAer_Ingest -- File OPEN Error opening GADS aerosol climatology ancillary input data file	1,3

Table B-1. TK (SMF) Utility Message Table for PGEs CER5.0P1, and CER5.1P1 (4 of 9)

Error Message/Description	Action Code
GADSAer_Ingest (): Error ... Sbr. GADSAer_Ingest -- File READ Error reading GADS aerosol climatology ancillary input data file	2,3
HCM_OcnAlb_Ingest (): Error ... Cannot close H-C-M OcnAlb file Error closing Hu-Cox-Munk Surface Albedo over Ocean ancillary input data file	2,3
HCM_OcnAlb_Ingest (): Error ... Cannot open H-C-M OcnAlb file Error opening Hu-Cox-Munk Surface Albedo over Ocean ancillary input data file	1,3
HCM_OcnAlb_Ingest (): Error ... Cannot read H-C-M OcnAlb file Error reading Hu-Cox-Munk Surface Albedo over Ocean ancillary input data file	2,3
HCM_OcnAlb_Ingest (): Error ... Cannot write H-C-M OcnAlb file Error writing to Hu-Cox-Munk Surface Albedo over Ocean ancillary input data file	1,3
Header_WrapUp () Error ... Cannot write header data Error writing header to daily surface albedo history output file	4
IGBP_Ingest (): Error ... Cannot close IGBP file Error closing IGBP ancillary input data file	2,3
IGBP_Ingest (): Error ... Cannot open IGBP file Error opening IGBP ancillary input data file	1,3
IGBP_Ingest (): Error ... Cannot read IGBP file Error reading IGBP ancillary input data file	2,3
Ingest_Input(): Error ... Unable to open SSF Error opening primary input file; PCF Logic ID # 112	1,3
Ingest_Input(): Error ... Unable to read SSF file Error reading primary input file; PCF Logic ID # 112	2,3
Input_Close () Error ... Cannot close SSF file Error closing SSF input file	4
Input_Open () Error ... Cannot open SSF file Error opening SSF input file	1,3
Input_Open () Error ... Retrieving SSF Name from PCF Error retrieving the name of the SSFB input file contained in the PCF	3
Input_Open () Error ... Determining existence of SSF Error determining whether or not a specified SSFB input file exists	3
InstSARB_Meta_Drv (): Error ... Write fail on CRSB metadata Error writing meta data file for the CRSB product	3
InstSARB_Meta_Drv (): Error ... Write fail on Main-Proc QC metadata Error writing meta data file for the Instantaneous SARB Main-Processor QC Report file	3
LUDCOMP(): Warning ... Matrix is singular Error encountered in constrainment algorithm for indicated FOV. Store values from initial pass on output. Processing for current hour continues with next FOV.	5

Table B-1. TK (SMF) Utility Message Table for PGEs CER5.0P1, and CER5.1P1 (5 of 9)

Error Message/Description	Action Code
MonQC_WrapUp () Error ... Cannot close monthly QC file Error closing Monthly Surface Albedo History QC Report output file	2,3
MonQC_WrapUp () Error ... Cannot open monthly QC file Error opening Monthly Surface Albedo History QC Report output file	3
MonQC_WrapUp () Error ... Cannot write monthly QC file Error writing to Monthly Surface Albedo History QC Report output file	4
MonSA_Ingest (): Error ... Cannot close monthly SA file Error closing Monthly Surface Albedo History ancillary input data file	2,3
MonSA_Ingest (): Error ... Cannot open monthly SA file Error opening Monthly Surface Albedo History ancillary input data file	1,3
MonSA_Ingest (): Error ... Cannot read monthly SA file Error reading Monthly Surface Albedo History ancillary input data file	2,3
MonSA_Output (): Error ... Cannot close monthly SA file Error closing Monthly Surface Albedo History output data file	2,3
MonSA_Output (): Error ... Cannot open monthly SA file Error opening Monthly Surface Albedo History output data file	1,3
MonSA_Output (): Error ... Cannot write monthly SA file Error writing Monthly Surface Albedo History output data file	2,3
PreSS5_Daily_MetaDrv (): Error ... Write fail on Daily SAH metadata Error writing meta data file for the Daily SAH file	3
PreSS5_DayMerge_MetaDrv (): Error ... Write fail on Monthly QC metadata Error writing meta data file for the Monthly SAH QC Report file	3
PreSS5_DayMerge_MetaDrv (): Error ... Write fail on Non-Prod SAH metadata Error writing meta data file for the Monthly non-production SAH file	3
PreSS5_DayMerge_MetaDrv (): Error ... Write fail on Prod SAH metadata Error writing meta data file for the Monthly SAH file to be used in production processing	3
Output_Open () Error ... Unable to open output file Error opening daily surface albedo output file	3
QC5_Close(): Error ... QC report close failed Error closing Instantaneous SARB QC Report output file; PCF Logic ID # 57	4
QC5_Open(): Error ... QC report open failed Error opening Instantaneous SARB QC Report output file; PCF Logic ID # 57	3
SfcAlb_Drv(): Warning ... Sbr. SfcAlb_Drv -- Invalid CERES scene id Invalid CERES scene type value for indicated FOV. Processing for current hour continues with next FOV.	5

Table B-1. TK (SMF) Utility Message Table for PGEs CER5.0P1, and CER5.1P1 (6 of 9)

Error Message/Description	Action Code
SfcAlb_Drv(): Warning ... Sbr. SfcAlb_Drv -- Invalid ERBE scene id Invalid ERBE scene type value for indicated FOV. Processing for current hour continues with next FOV.	5
SSFA_RecIngest(): ERROR ... No latitiude for validation No latitudinal coordinate provided for validation.	4
SSFA_RecIngest(): ERROR ... No longitiude for validation Latitudinal coordinate provided for validation, but no longitudinal coordinate.	4
SSFA_RecIngest(): ERROR ... SSFA record read error Error reading supplimental SSFA aerosol data record.	2,3
SSFA_RecIngest(): ERROR ... Supp Aer latitude mismatch SSF and SSFA latitude mismatch.	3
SSFA_RecIngest(): ERROR ... Supp Aer longitude mismatch SSF and SSFA longitude mismatch.	3
st_get_nl(): Warning ... Sbr. st_get_nl -- Sigma table maxtune Unable to retrieve correct sigma table value. Value for iav (1,ia) exceeds value for maxtune parameter for indicated FOV. Processing for current hour continues with next FOV.	5
st_get_nl(): Warning ... Sbr. st_get_nl -- Sigma table mcldc Unable to retrieve correct sigma table value. Value for iav (2,ia) exceeds value for mcldc parameter for indicated FOV. Processing for current hour continues with next FOV.	5
st_get_nl(): Warning ... Sbr. st_get_nl -- Sigma table nsid Unable to retrieve correct sigma table value. Value for iav (3,ia) exceeds value for nsid parameter for indicated FOV. Processing for current hour continues with next FOV.	5
st_load(): Error ... NCASE is greater than MCASE Invalid value of either NCASE or MCASE parameters in the static ancillary input data file; PCF logic ID # 2	2,3
st_load(): Error ... NSID is greater than MSID Invalid value of either NSID or MSID parameters in the static ancillary input data file; PCF logic ID # 2	2,3
st_load(): Error ... Sigma LUT pointer out of range Error encountered in constrainment algorithm for indicated FOV. Store values from initial pass on output. Processing for current hour continues with next FOV.	5
st_load(): Error ... Unable to read namelist ST_CASE Unable to read namelist ST_CASE from the static ancillary input data file; PCF logic ID # 2	2,3
st_load(): Error ... Unable to read namelist ST_SIGF Unable to read namelist ST_SIGF from the static ancillary input data file; PCF logic ID # 2	2,3
st_load(): Error ... Unable to read namelist ST_SIGV Unable to read namelist ST_SIGV from the static ancillary input data file; PCF logic ID # 2	2,3

Table B-1. TK (SMF) Utility Message Table for PGEs CER5.0P1, and CER5.1P1 (7 of 9)

Error Message/Description	Action Code
st_load(): Error ... Unable to read sigma table parameters Error reading sigma table-static ancillary input data file; PCF logic ID # 2	2,3
st_load(): Error ... Unable to read namelist ST_VERS Error reading sigma table-static ancillary input data file version number; PCF logic ID # 2	2,3
tridag(): Warning ... Sbr. tridag, Constr -- Pause 1 Invalid value encountered for indicated FOV in radiative transfer model at first Fu-Liou PAUSE during the constrained pass. Processing for current hour continues with next FOV.	5
tridag(): Warning ... Sbr. tridag, Constr -- Pause 2 Invalid value encountered for indicated FOV in radiative transfer model at second Fu-Liou PAUSE during the constrained pass. Processing for current hour continues with next FOV.	5
tridag(): Warning ... Sbr. tridag, Initial -- Pause 1 Invalid value encountered for indicated FOV in radiative transfer model at first Fu-Liou PAUSE during the initial pass. Processing for current hour continues with next FOV.	5
tridag(): Warning ... Sbr. tridag, Initial -- Pause 2 Invalid value encountered for indicated FOV in radiative transfer model at second Fu-Liou PAUSE during the initial pass. Processing for current hour continues with next FOV.	5
Tune_Drv(): Warning ... Aerosol Optical Depth Out Of Range Adjusted aerosol optical depth value out-of-range for indicated FOV. Store values from initial pass on output. Processing for current hour continues with next FOV.	5
tune_xxx(): Warning ... Adjusted cloud fractional area out of range Error encountered in constrainment algorithm for indicated FOV. Store values from initial pass on output. Processing for current hour continues with next FOV.	5
tune_xxx(): Warning ... Tunexxx is in error Error encountered in constrainment algorithm for indicated FOV. Store values from initial pass on output. Processing for current hour continues with next FOV.	5
_____(): ERROR ... Determining if file exists Error encountered determining whether or not a file exists	3
_____(): ERROR ... Determining valid HDF file Error encountered reading a daily MODIS MOD08 aerosol.data value	1,2,3
_____(): ERROR ... Failure closing file Error encountered closing a file	4
_____(): ERROR ... Failure closing HDF file Error encountered reading a daily MODIS MOD08 aerosol.data value	4
_____(): ERROR ... Failure opening file Error encountered opening a file	3
_____(): ERROR ... Failure opening HDF file Error encountered reading a daily MODIS MOD08 aerosol.data value	1,2,3

Table B-1. TK (SMF) Utility Message Table for PGEs CER5.0P1, and CER5.1P1 (8 of 9)

Error Message/Description	Action Code
_____(): ERROR ... Missing Day run-time LID Retrieval of day run-time parameter requested, but no LID provided	4
_____(): ERROR ... Missing Hour run-time LID Retrieval of hour run-time parameter requested, but no LID provided	4
_____(): ERROR ... Missing Month run-time LID Retrieval of month run-time parameter requested, but no LID provided	4
_____(): ERROR ... Missing Year run-time LID Retrieval of year run-time parameter requested, but no LID provided	4
_____(): ERROR ... No DA file record length No record length provided for opening a direct access file	4
_____(): ERROR ... Read of Angstrom Exp 1 Ocean_Mean Error encountered reading a daily MODIS MOD08 aerosol.data value	1,4
_____(): ERROR ... Read of Angstrom Exp 2 Ocean_Mean Error encountered reading a daily MODIS MOD08 aerosol.data value	1,4
_____(): ERROR ... Read of Continental Optical Depth Mean Error encountered reading a daily MODIS MOD08 aerosol.data value	1,4
_____(): ERROR ... Read of Effective Optical Depth Ocean Mean Error encountered reading a daily MODIS MOD08 aerosol.data value	1,4
_____(): ERROR ... Read of Mean Reflectance Land All QA66 Mean Error encountered reading a daily MODIS MOD08 aerosol.data value	1,4
_____(): ERROR ... Read of Optical Depth Dust Mean Error encountered reading a daily MODIS MOD08 aerosol.data value	1,4
_____(): ERROR ... Read of Optical Depth Land Ocean Mean Error encountered reading a daily MODIS MOD08 aerosol.data value	1,4
_____(): ERROR ... Read of Optical Depth Smoke Mean Error encountered reading a daily MODIS MOD08 aerosol.data value	1,4
_____(): ERROR ... Read of Optical Depth Sulfate Mean Error encountered reading a daily MODIS MOD08 aerosol.data value	1,4
_____(): ERROR ... Retrieving Day PCF run-time Error encountered retrieving day from PCF	3
_____(): ERROR ... Retrieving file name Error encountered retrieving filename from PCF	3
_____(): ERROR ... Retrieving Hour PCF run-time Error encountered retrieving hour from PCF	3

Table B-1. TK (SMF) Utility Message Table for PGEs CER5.0P1, and CER5.1P1 (9 of 9)

Error Message/Description	Action Code
_____(): ERROR ... Retrieving Month PCF run-time Error encountered retrieving month from PCF	3
_____(): ERROR ... Retrieving Year PCF run-time Error encountered retrieving year from PCF	3

B.1.1 Error Messages for PGE CER5.1P1 HDF Post-Processor

Table B-2. PGE CER5.1P1 HDF Post-Processor Error Messages

Message	Module Name	Error Type	Action
200: CRS QA Flag set to QA_FAIL. HDF file will not be created.	crs2hdf	Fatal	This hour should not be run while CRSB QA flag is set to FAIL
201: subroutine crs_open could not open CRS file	crs2hdf	Fatal	Check PCF file for request name and location of CRSB file. Verify file exists in that location. PCF logic ID #7
202: problem closing the CRS file	crs2hdf	Fatal	Check for system problem
203: Could not open HDF file, XXX	crs2hdf	Fatal	Check PCF file for request name and location of CRS file. PCF logic ID #102
204: error initializing HDF file	crs2hdf	Fatal	Check for system problem
205: Unable to write header to HDF file XXX	crs2hdf	Fatal	Check for system problem
206: Could not close, XXX	crs2hdf	Fatal	Check for system problem
207: error closing the HDF file	crs2hdf	Fatal	Check for system problem
208: Unable to write XXX SDS for YYY for record number ZZ	crs2hdf	Fatal	Check for system problem
209: Unable to read XXX SDS for YYY for record number ZZ	crs2hdf	Fatal	Contact Analyst listed in Table 2-1
210: Invalid SDS number. Correct numbers are 1 through 185.	crs2hdf	Fatal	Contact Analyst listed in Table 2-1

Appendix C
Sample ASCII (PCFin) File Listings for Subsystem 5.0

C.1 Sample ASCII (PCFin) File Listing for CER5.0P1

```
###########################
# CERES baseline Metadata
###########################
PGEName = CER5.0P1
SamplingStrategy = Aqua-FM3-MODIS
ProductionStrategy = SSIT
CERDataDateYear = 2003
CERDataDateMonth = 07
CERDataDateDay = 01
CERHrOfMonth = 00
ConfigurationCode = 999999
SWsccr = 315
DATAsccr = 315
Sat_name = Aqua
Inst_name = FM3
Imag_name = MODIS

##################################
# PGE specific runtime parameters
##################################
Satellite_Instrument = Aqua-FM3-MODIS
Ancillary_Data_Set = None
SP_MODEL_NUM = 1
RUN_SURF_ALG = 1
PGE_VERSION = 3.6
TK_Ver = SCF TK5.2.7

##################################
# PCF required directories
##################################
SS5.0_InputDir.1 = /CERES/sarb/caldwell/sarb/data/ancillary/dynamic/sarb
SS5.0_InputDir.2 = /CERES/sarb/caldwell/sarb/data/ancillary/static/sarb
SS5.0_InputDir.3 = /CERES/sarb/caldwell/inversion/data/out_comp/data
SS5.0_InputDir.4 = /CERES/sarb/caldwell/sarb/data/out_comp/data/regridmoa
SS5.0_InputDir.5 = /CERES/sarb/caldwell/clouds/data/input/MODIS
SS5.0_OutputDir.1 = /CERES/sarb/caldwell/sarb/data/ancillary/dynamic/sarb
SS5.0_OutputDir.2 = /CERES/sarb/caldwell/sarb/data/out_comp/qa_reports/sarb
SS5.0_RunDir =  /CERES/sarb/caldwell/sarb/bin/sarb
SS5.0_LogsDir =  /CERES/sarb/caldwell/sarb/data/runlogs/sarb
SS5.0_MCFDir = /CERES/sarb/caldwell/sarb/rcf/mcf/sarb
```

```
SS5.0_PGSDir = /opt/net/TOOLKIT
SS5.0_SCRDir = /CERES/sarb/caldwell/sarb/data/scr

####################################
# Input file names
####################################
SS5.0_SAInputfile.IGBP = IGBP_Ver3.0
SS5.0_Inputfile.LUT = flsa0404_lut.2s.coef
SS5.0_Inputfile.GFDL = SS5_GFDLAerClim_200006
SS5.0_Inputfile.ColBackup = MATCH_TERRA_AOTS_CLIM_MODIS.07
SS5.0_Inputfile.Collins.01 = MATCH_TERRA_AOTS_MODIS.20030701
SS5.0_Inputfile.Collins.02 = MATCH_TERRA_AOTS_MODIS.20030702
SS5.0_Inputfile.Collins.03 = MATCH_TERRA_AOTS_MODIS.20030703
SS5.0_Inputfile.Collins.04 = MATCH_TERRA_AOTS_MODIS.20030704
SS5.0_Inputfile.Collins.05 = MATCH_TERRA_AOTS_MODIS.20030705
SS5.0_Inputfile.Collins.06 = MATCH_TERRA_AOTS_MODIS.20030706
SS5.0_Inputfile.Collins.07 = MATCH_TERRA_AOTS_MODIS.20030707
SS5.0_Inputfile.Collins.08 = MATCH_TERRA_AOTS_MODIS.20030708
SS5.0_Inputfile.Collins.09 = MATCH_TERRA_AOTS_MODIS.20030709
SS5.0_Inputfile.Collins.10 = MATCH_TERRA_AOTS_MODIS.20030710
SS5.0_Inputfile.Collins.11 = MATCH_TERRA_AOTS_MODIS.20030711
SS5.0_Inputfile.Collins.12 = MATCH_TERRA_AOTS_MODIS.20030712
SS5.0_Inputfile.Collins.13 = MATCH_TERRA_AOTS_MODIS.20030713
SS5.0_Inputfile.Collins.14 = MATCH_TERRA_AOTS_MODIS.20030714
SS5.0_Inputfile.Collins.15 = MATCH_TERRA_AOTS_MODIS.20030715
SS5.0_Inputfile.Collins.16 = MATCH_TERRA_AOTS_MODIS.20030716
SS5.0_Inputfile.Collins.17 = MATCH_TERRA_AOTS_MODIS.20030717
SS5.0_Inputfile.Collins.18 = MATCH_TERRA_AOTS_MODIS.20030718
SS5.0_Inputfile.Collins.19 = MATCH_TERRA_AOTS_MODIS.20030719
SS5.0_Inputfile.Collins.20 = MATCH_TERRA_AOTS_MODIS.20030720
SS5.0_Inputfile.Collins.21 = MATCH_TERRA_AOTS_MODIS.20030721
SS5.0_Inputfile.Collins.22 = MATCH_TERRA_AOTS_MODIS.20030722
SS5.0_Inputfile.Collins.23 = MATCH_TERRA_AOTS_MODIS.20030723
SS5.0_Inputfile.Collins.24 = MATCH_TERRA_AOTS_MODIS.20030724
SS5.0_Inputfile.Collins.25 = MATCH_TERRA_AOTS_MODIS.20030725
SS5.0_Inputfile.Collins.26 = MATCH_TERRA_AOTS_MODIS.20030726
SS5.0_Inputfile.Collins.27 = MATCH_TERRA_AOTS_MODIS.20030727
SS5.0_Inputfile.Collins.28 = MATCH_TERRA_AOTS_MODIS.20030728
SS5.0_Inputfile.Collins.29 = MATCH_TERRA_AOTS_MODIS.20030729
SS5.0_Inputfile.Collins.30 = MATCH_TERRA_AOTS_MODIS.20030730
SS5.0_Inputfile.Collins.31 = MATCH_TERRA_AOTS_MODIS.20030731
SS5.0_Inputfile.01.00 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070100
SS5.0_Inputfile.01.01 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070101
SS5.0_Inputfile.01.02 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070102
SS5.0_Inputfile.01.03 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070103
SS5.0_Inputfile.01.04 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070104
```

SS5.0_Inputfile.01.05 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070105
SS5.0_Inputfile.01.06 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070106
SS5.0_Inputfile.01.07 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070107
SS5.0_Inputfile.01.08 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070108
SS5.0_Inputfile.01.09 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070109
SS5.0_Inputfile.01.10 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070110
SS5.0_Inputfile.01.11 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070111
SS5.0_Inputfile.01.12 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070112
SS5.0_Inputfile.01.13 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070113
SS5.0_Inputfile.01.14 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070114
SS5.0_Inputfile.01.15 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070115
SS5.0_Inputfile.01.16 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070116
SS5.0_Inputfile.01.17 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070117
SS5.0_Inputfile.01.18 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070118
SS5.0_Inputfile.01.19 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070119
SS5.0_Inputfile.01.20 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070120
SS5.0_Inputfile.01.21 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070121
SS5.0_Inputfile.01.22 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070122
SS5.0_Inputfile.01.23 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070123
SS5.0_Inputfile.02.00 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070200
SS5.0_Inputfile.02.01 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070201
SS5.0_Inputfile.02.02 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070202
SS5.0_Inputfile.02.03 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070203
SS5.0_Inputfile.02.04 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070204
SS5.0_Inputfile.02.05 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070205
SS5.0_Inputfile.02.06 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070206
SS5.0_Inputfile.02.07 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070207
SS5.0_Inputfile.02.08 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070208
SS5.0_Inputfile.02.09 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070209
SS5.0_Inputfile.02.10 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070210
SS5.0_Inputfile.02.11 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070211
SS5.0_Inputfile.02.12 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070212
SS5.0_Inputfile.02.13 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070213
SS5.0_Inputfile.02.14 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070214
SS5.0_Inputfile.02.15 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070215
SS5.0_Inputfile.02.16 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070216
SS5.0_Inputfile.02.17 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070217
SS5.0_Inputfile.02.18 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070218
SS5.0_Inputfile.02.19 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070219
SS5.0_Inputfile.02.20 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070220
SS5.0_Inputfile.02.21 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070221
SS5.0_Inputfile.02.22 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070222
SS5.0_Inputfile.02.23 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070223
SS5.0_Inputfile.03.00 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070300
SS5.0_Inputfile.03.01 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070301
SS5.0_Inputfile.03.02 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070302

SS5.0_Inputfile.03.03 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070303
SS5.0_Inputfile.03.04 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070304
SS5.0_Inputfile.03.05 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070305
SS5.0_Inputfile.03.06 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070306
SS5.0_Inputfile.03.07 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070307
SS5.0_Inputfile.03.08 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070308
SS5.0_Inputfile.03.09 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070309
SS5.0_Inputfile.03.10 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070310
SS5.0_Inputfile.03.11 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070311
SS5.0_Inputfile.03.12 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070312
SS5.0_Inputfile.03.13 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070313
SS5.0_Inputfile.03.14 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070314
SS5.0_Inputfile.03.15 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070315
SS5.0_Inputfile.03.16 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070316
SS5.0_Inputfile.03.17 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070317
SS5.0_Inputfile.03.18 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070318
SS5.0_Inputfile.03.19 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070319
SS5.0_Inputfile.03.20 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070320
SS5.0_Inputfile.03.21 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070321
SS5.0_Inputfile.03.22 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070322
SS5.0_Inputfile.03.23 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070323
SS5.0_Inputfile.04.00 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070400
SS5.0_Inputfile.04.01 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070401
SS5.0_Inputfile.04.02 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070402
SS5.0_Inputfile.04.03 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070403
SS5.0_Inputfile.04.04 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070404
SS5.0_Inputfile.04.05 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070405
SS5.0_Inputfile.04.06 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070406
SS5.0_Inputfile.04.07 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070407
SS5.0_Inputfile.04.08 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070408
SS5.0_Inputfile.04.09 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070409
SS5.0_Inputfile.04.10 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070410
SS5.0_Inputfile.04.11 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070411
SS5.0_Inputfile.04.12 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070412
SS5.0_Inputfile.04.13 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070413
SS5.0_Inputfile.04.14 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070414
SS5.0_Inputfile.04.15 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070415
SS5.0_Inputfile.04.16 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070416
SS5.0_Inputfile.04.17 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070417
SS5.0_Inputfile.04.18 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070418
SS5.0_Inputfile.04.19 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070419
SS5.0_Inputfile.04.20 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070420
SS5.0_Inputfile.04.21 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070421
SS5.0_Inputfile.04.22 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070422
SS5.0_Inputfile.04.23 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070423
SS5.0_Inputfile.05.00 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070500

SS5.0_Inputfile.05.01 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070501
SS5.0_Inputfile.05.02 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070502
SS5.0_Inputfile.05.03 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070503
SS5.0_Inputfile.05.04 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070504
SS5.0_Inputfile.05.05 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070505
SS5.0_Inputfile.05.06 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070506
SS5.0_Inputfile.05.07 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070507
SS5.0_Inputfile.05.08 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070508
SS5.0_Inputfile.05.09 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070509
SS5.0_Inputfile.05.10 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070510
SS5.0_Inputfile.05.11 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003070511
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SS5.0_Inputfile.31.10 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003073110
SS5.0_Inputfile.31.11 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003073111
SS5.0_Inputfile.31.12 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003073112
SS5.0_Inputfile.31.13 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003073113
SS5.0_Inputfile.31.14 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003073114
SS5.0_Inputfile.31.15 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003073115
SS5.0_Inputfile.31.16 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003073116
SS5.0_Inputfile.31.17 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003073117
SS5.0_Inputfile.31.18 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003073118
SS5.0_Inputfile.31.19 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003073119
SS5.0_Inputfile.31.20 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003073120

SS5.0_Inputfile.31.21 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003073121
SS5.0_Inputfile.31.22 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003073122
SS5.0_Inputfile.31.23 = CER_SSFB_Aqua-FM3-MODIS_SSIT_999999.2003073123
MOAInput_20030701.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003070100
MOAInput_20030701.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003070106
MOAInput_20030701.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003070112
MOAInput_20030701.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003070118
MOAInput_20030702.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003070200
MOAInput_20030702.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003070206
MOAInput_20030702.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003070212
MOAInput_20030702.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003070218
MOAInput_20030703.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003070300
MOAInput_20030703.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003070306
MOAInput_20030703.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003070312
MOAInput_20030703.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003070318
MOAInput_20030704.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003070400
MOAInput_20030704.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003070406
MOAInput_20030704.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003070412
MOAInput_20030704.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003070418
MOAInput_20030705.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003070500
MOAInput_20030705.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003070506
MOAInput_20030705.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003070512
MOAInput_20030705.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003070518
MOAInput_20030706.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003070600
MOAInput_20030706.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003070606
MOAInput_20030706.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003070612
MOAInput_20030706.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003070618
MOAInput_20030707.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003070700
MOAInput_20030707.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003070706
MOAInput_20030707.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003070712
MOAInput_20030707.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003070718
MOAInput_20030708.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003070800
MOAInput_20030708.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003070806
MOAInput_20030708.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003070812
MOAInput_20030708.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003070818
MOAInput_20030709.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003070900
MOAInput_20030709.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003070906
MOAInput_20030709.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003070912
MOAInput_20030709.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003070918
MOAInput_20030710.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003071000
MOAInput_20030710.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003071006
MOAInput_20030710.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003071012
MOAInput_20030710.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003071018
MOAInput_20030711.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003071100
MOAInput_20030711.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003071106
MOAInput_20030711.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003071112

MOAInput_20030711.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003071118
MOAInput_20030712.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003071200
MOAInput_20030712.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003071206
MOAInput_20030712.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003071212
MOAInput_20030712.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003071218
MOAInput_20030713.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003071300
MOAInput_20030713.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003071306
MOAInput_20030713.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003071312
MOAInput_20030713.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003071318
MOAInput_20030714.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003071400
MOAInput_20030714.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003071406
MOAInput_20030714.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003071412
MOAInput_20030714.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003071418
MOAInput_20030715.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003071500
MOAInput_20030715.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003071506
MOAInput_20030715.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003071512
MOAInput_20030715.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003071518
MOAInput_20030716.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003071600
MOAInput_20030716.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003071606
MOAInput_20030716.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003071612
MOAInput_20030716.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003071618
MOAInput_20030717.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003071700
MOAInput_20030717.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003071706
MOAInput_20030717.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003071712
MOAInput_20030717.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003071718
MOAInput_20030718.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003071800
MOAInput_20030718.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003071806
MOAInput_20030718.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003071812
MOAInput_20030718.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003071818
MOAInput_20030719.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003071900
MOAInput_20030719.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003071906
MOAInput_20030719.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003071912
MOAInput_20030719.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003071918
MOAInput_20030720.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003072000
MOAInput_20030720.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003072006
MOAInput_20030720.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003072012
MOAInput_20030720.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003072018
MOAInput_20030721.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003072100
MOAInput_20030721.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003072106
MOAInput_20030721.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003072112
MOAInput_20030721.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003072118
MOAInput_20030722.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003072200
MOAInput_20030722.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003072206
MOAInput_20030722.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003072212
MOAInput_20030722.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003072218
MOAInput_20030723.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003072300

MOAInput_20030723.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003072306
MOAInput_20030723.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003072312
MOAInput_20030723.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003072318
MOAInput_20030724.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003072400
MOAInput_20030724.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003072406
MOAInput_20030724.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003072412
MOAInput_20030724.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003072418
MOAInput_20030725.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003072500
MOAInput_20030725.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003072506
MOAInput_20030725.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003072512
MOAInput_20030725.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003072518
MOAInput_20030726.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003072600
MOAInput_20030726.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003072606
MOAInput_20030726.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003072612
MOAInput_20030726.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003072618
MOAInput_20030727.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003072700
MOAInput_20030727.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003072706
MOAInput_20030727.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003072712
MOAInput_20030727.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003072718
MOAInput_20030728.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003072800
MOAInput_20030728.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003072806
MOAInput_20030728.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003072812
MOAInput_20030728.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003072818
MOAInput_20030729.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003072900
MOAInput_20030729.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003072906
MOAInput_20030729.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003072912
MOAInput_20030729.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003072918
MOAInput_20030730.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003073000
MOAInput_20030730.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003073006
MOAInput_20030730.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003073012
MOAInput_20030730.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003073018
MOAInput_20030731.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003073100
MOAInput_20030731.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003073106
MOAInput_20030731.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003073112
MOAInput_20030731.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003073118
MOAInput_20030801.00 = CER_MOA_CERES_DAO-GEOS4_016023.2003080100
MOAInput_20030801.06 = CER_MOA_CERES_DAO-GEOS4_016023.2003080106
MOAInput_20030801.12 = CER_MOA_CERES_DAO-GEOS4_016023.2003080112
MOAInput_20030801.18 = CER_MOA_CERES_DAO-GEOS4_016023.2003080118
SS5.0_SAInputfile.01 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030701
SS5.0_SAInputfile.02 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030702
SS5.0_SAInputfile.03 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030703
SS5.0_SAInputfile.04 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030704
SS5.0_SAInputfile.05 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030705
SS5.0_SAInputfile.06 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030706
SS5.0_SAInputfile.07 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030707

SS5.0_SAInputfile.08 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030708
SS5.0_SAInputfile.09 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030709
SS5.0_SAInputfile.10 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030710
SS5.0_SAInputfile.11 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030711
SS5.0_SAInputfile.12 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030712
SS5.0_SAInputfile.13 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030713
SS5.0_SAInputfile.14 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030714
SS5.0_SAInputfile.15 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030715
SS5.0_SAInputfile.16 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030716
SS5.0_SAInputfile.17 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030717
SS5.0_SAInputfile.18 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030718
SS5.0_SAInputfile.19 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030719
SS5.0_SAInputfile.20 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030720
SS5.0_SAInputfile.21 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030721
SS5.0_SAInputfile.22 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030722
SS5.0_SAInputfile.23 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030723
SS5.0_SAInputfile.24 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030724
SS5.0_SAInputfile.25 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030725
SS5.0_SAInputfile.26 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030726
SS5.0_SAInputfile.27 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030727
SS5.0_SAInputfile.28 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030728
SS5.0_SAInputfile.29 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030729
SS5.0_SAInputfile.30 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030730
SS5.0_SAInputfile.31 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.20030731
SS5.0_MODISVersion = 4
SS5.0_AERInputfile.01 = MOD08_D3.A2003182.004.2003189220248.hdf
SS5.0_AERInputfile.02 = MOD08_D3.A2003183.004.2003189221823.hdf
SS5.0_AERInputfile.03 = MOD08_D3.A2003184.004.2003191014628.hdf
SS5.0_AERInputfile.04 = MOD08_D3.A2003185.004.2003191232326.hdf
SS5.0_AERInputfile.05 = MOD08_D3.A2003186.004.2003193194305.hdf
SS5.0_AERInputfile.06 = MOD08_D3.A2003187.004.2003194063106.hdf
SS5.0_AERInputfile.07 = MOD08_D3.A2003188.004.2003194212555.hdf
SS5.0_AERInputfile.08 = MOD08_D3.A2003189.004.2003208123955.hdf
SS5.0_AERInputfile.09 = MOD08_D3.A2003190.004.2003208234507.hdf
SS5.0_AERInputfile.10 = MOD08_D3.A2003191.004.2003209052558.hdf
SS5.0_AERInputfile.11 = MOD08_D3.A2003192.004.2003209151614.hdf
SS5.0_AERInputfile.12 = MOD08_D3.A2003193.004.2003211014237.hdf
SS5.0_AERInputfile.13 = MOD08_D3.A2003194.004.2003216045102.hdf
SS5.0_AERInputfile.14 = MOD08_D3.A2003195.004.2003217163555.hdf
SS5.0_AERInputfile.15 = MOD08_D3.A2003196.004.2003218193208.hdf
SS5.0_AERInputfile.16 = MOD08_D3.A2003197.004.2003219064110.hdf
SS5.0_AERInputfile.17 = MOD08_D3.A2003198.004.2003219170704.hdf
SS5.0_AERInputfile.18 = MOD08_D3.A2003199.004.2003220031255.hdf
SS5.0_AERInputfile.19 = MOD08_D3.A2003200.004.2003220092003.hdf
SS5.0_AERInputfile.20 = MOD08_D3.A2003201.004.2003207045433.hdf
SS5.0_AERInputfile.21 = MOD08_D3.A2003202.004.2003206223546.hdf

```
SS5.0_AERInputfile.22 = MOD08_D3.A2003203.004.2003208023415.hdf
SS5.0_AERInputfile.23 = MOD08_D3.A2003204.004.2003207182820.hdf
SS5.0_AERInputfile.24 = MOD08_D3.A2003205.004.2003212142053.hdf
SS5.0_AERInputfile.25 = MOD08_D3.A2003206.004.2003219093508.hdf
SS5.0_AERInputfile.26 = MOD08_D3.A2003207.004.2003212002026.hdf
SS5.0_AERInputfile.27 = MOD08_D3.A2003208.004.2003213144852.hdf
SS5.0_AERInputfile.28 = MOD08_D3.A2003209.004.2003214144348.hdf
SS5.0_AERInputfile.29 = MOD08_D3.A2003210.004.2003225193846.hdf
SS5.0_AERInputfile.30 = MOD08_D3.A2003211.004.2003227022552.hdf
SS5.0_AERInputfile.31 = MOD08_D3.A2003212.004.2003230051738.hdf

####################################
# Output file names
####################################
SS5.0_Outputfile.1 = CER_HDSAL_Aqua-FM3-MODIS_SSIT_999999.200307
SS5.0_Output_MSA_Prod = CER_HMPSAL_Aqua-FM3-MODIS_SSIT_999999.200307
SS5.0_Output_MSA_Curr = CER_HMSAL_Aqua-FM3-MODIS_SSIT_999999.200307
SS5.0_Output_QC = CER_MQCSA_Aqua-FM3-MODIS_SSIT_999999.200307
SS5.0_Output_MAER_Prod = CER_HMAER_Aqua-FM3-MODIS_SSIT_999999.200307

#################################
# Log file names
#################################
SS5.0_Logsfile.1 = CER5.0P1_LogStatus_Aqua-FM3-MODIS_SSIT_999999.200307
SS5.0_Logsfile.2 = CER5.0P1_LogReport_Aqua-FM3-MODIS_SSIT_999999.200307
SS5.0_Logsfile.3 = CER5.0P1_LogUser_Aqua-FM3-MODIS_SSIT_999999.200307

##################################
# Temporary file names
##################################
Get_tempfile =  GetAttr.temp.200307
MCF_tempfile =  MCFWrite.temp.200307
```

C.2 Sample ASCII (PCFin) File Listing for CER5.1P1

```
##########################
# CERES baseline Metadata
##########################
PGEName = CER5.1P1
SamplingStrategy = Aqua-FM3-MODIS
ProductionStrategy = SSIT
CERDataDateYear = 2003
CERDataDateMonth = 07
CERDataDateDay = 01
CERHrOfDay = 00
```

```
ConfigurationCode = 999999
SWsccr = 315
DATAsccr = 315
Sat_name = Aqua
Inst_name = FM3
Imag_name = MODIS

##################################
# PGE specific runtime parameters
##################################
Satellite_Instrument = Aqua-FM3-MODIS
Ancillary_Data_Set = DER3/SIG4
SP_MODEL_NUM = 1
RUN_SURF_ALG = 1
PGE_VERSION = 0306
TK_Ver = SCF TK5.2.7

##################################
# PCF required directories
##################################
SS5.0_InputDir.Inv = /CERES/sarb/caldwell/inversion/data/out_comp/data
SS5.0_InputDir.StAnc = /CERES/sarb/caldwell/sarb/data/ancillary/static/sarb
SS5.0_InputDir.AerMATCH = /CERES/sarb/caldwell/sarb/data/ancillary/static/sarb/match_aot/
match_aots_200307
SS5.0_InputDir.DyAnc = /CERES/sarb/caldwell/sarb/data/ancillary/dynamic/sarb
SS5.0_InputDir.MOA = /CERES/sarb/caldwell/sarb/data/out_comp/data/regridmoa
SS5.0_InputDir.CRSB = /CERES/sarb/caldwell/sarb/data/out_comp/data/sarb
SS5.0_OutputDir.CRS = /CERES/sarb/caldwell/sarb/data/out_comp/data/sarb
SS5.0_OutputDir.QC = /CERES/sarb/caldwell/sarb/data/out_comp/qa_reports/sarb
SS5.0_RunDir =  /CERES/sarb/caldwell/sarb/bin/sarb
SS5.0_LogsDir =  /CERES/sarb/caldwell/sarb/data/runlogs/sarb
SS5.0_MCFDir = /CERES/sarb/caldwell/sarb/rcf/mcf/sarb
SS5.0_PGSDir = /opt/net/TOOLKIT
SS5.0_SCRDir = /CERES/sarb/caldwell/sarb/data/scr

##################################
# Input file names
##################################
SS5.0_Input.deriv = SS5_DrivTab_19990315
SS5.0_Input.sigma = SigTab_Instantaneous_20040625
SS5.0_Input.igbp = IGBP_Ver3.0
SS5.0_Input.sfcalb = CER_HMPSAL_Aqua-FM3-MODIS_SSIT_999999.200307
SS5.0_Input.gmod = CER_HMAER_Aqua-FM3-MODIS_SSIT_999999.200307
SS5.0_Input.moa1 = CER_MOA_CERES_DAO-GEOS4_016023.2003070100
SS5.0_Input.moa2 = CER_MOA_CERES_DAO-GEOS4_016023.2003070100
SS5.0_Input.moa3 = CER_MOA_CERES_DAO-GEOS4_016023.2003070100
```

```
SS5.0_Input.ssfb = CER_SSFB_Aqua-FM3-MODIS_Prop1_000000.2003070100
SS5.0_Input.ssfa = CER_SSFA_Aqua-FM3-MODIS_Prop1_000000.2003070100
SS5.0_Input.lut2 = flsa0404_lut.2s.coef
SS5.0_Input.lut4 = flsa3_lut.4s.coef_19991215
SS5.0_Input.gfdlaer = SS5_GFDLAerClim_200006
SS5.0_Input.colbackup = MATCH_TERRA_AOTS_CLIM_MODIS.07
SS5.0_Input.hcm_ocnalb = SS5_HuCoxMunk_OcnAlb
SS5.0_Input.zjin_ocnalb = SS5_ZJin_OcnAlb_20031101
SS5.0_Input.collins = MATCH_TERRA_AOTS_MODIS.20030701
SS5.0_Input.control = ControlFile_20040625
SS5.0_Input.crsmet = CER_CRSB_Aqua-FM3-MODIS_SSIT_999999.2003070100.met
SS5.0_Input.crsb = CER_CRSB_Aqua-FM3-MODIS_SSIT_999999.2003070100

####################################
# Output file names
####################################
SS5.0_Output.crsb = CER_CRSB_Aqua-FM3-MODIS_SSIT_999999.2003070100
SS5.0_Output.crsvb = CER_CRSVB_Aqua-FM3-MODIS_SSIT_999999.2003070100
SS5.0_Output.crsqc = CER_HQCR_Aqua-FM3-MODIS_SSIT_999999.2003070100
SS5.0_Output.crshdf = CER_CRS_Aqua-FM3-MODIS_SSIT_999999.2003070100

###################################
# Log file names
###################################
SS5.0_Logsfile.1 = CER5.1P1_LogStatus_Aqua-FM3-MODIS_SSIT_999999.2003070100
SS5.0_Logsfile.2 = CER5.1P1_LogReport_Aqua-FM3-MODIS_SSIT_999999.2003070100
SS5.0_Logsfile.3 = CER5.1P1_LogUser_Aqua-FM3-MODIS_SSIT_999999.2003070100

##################################
# Temporary file names
##################################
Get_tempfile =  GetAttr.temp.2003070100
MCF_tempfile =  MCFWrite.temp.2003070100
```

C.3 Sample ASCII (PCFin) File Listing for CER5.3P1

```
###########################
# CERES baseline Metadata
###########################
PGEName = CER5.3P1
SamplingStrategyInput = Terra-FM2-MODIS
ProductionStrategyInput = Beta3
SamplingStrategyOutput = Terra-FM2-MODIS
ProductionStrategyOutput = SSIT
CERDataDateYear = 2001
```

```
CERDataDateMonth = 01
CERDataDateDay = 01
CERHrOfDay = 00
ConfigurationCodeInput = 011014
ConfigurationCodeOutput = 999999
SWsccr = 315
DATAsccr = 315
Sat_name = Terra
Inst_name = FM2
Imag_name = MODIS

##################################
# PGE specific runtime parameters
##################################
Satellite_Instrument = Terra-FM2-MODIS
Ancillary_Data_Set = DER3/SIG4
SP_MODEL_NUM = 1
RUN_SURF_ALG = 1
PGE_VERSION = 0306
TK_Ver = SCF TK5.2.7

##################################
# PCF required directories
##################################
SS5.0_InputDir.Inv = /usr/people3/caldwell/Sarb_FullTest/inversion/data/out_comp/data
SS5.0_InputDir.CRSB = /usr/people3/caldwell/Sarb_FullTest/sarb/data/out_comp/data/sarb
SS5.0_OutputDir.CRS = /usr/people3/caldwell/Sarb_FullTest/sarb/data/out_comp/data/sarb
SS5.0_OutputDir.QC = /usr/people3/caldwell/Sarb_FullTest/sarb/data/out_comp/qa_reports/sarb
SS5.0_RunDir =  /usr/people3/caldwell/Sarb_FullTest/sarb/bin/sarb
SS5.0_LogsDir =  /usr/people3/caldwell/Sarb_FullTest/sarb/data/runlogs/sarb
SS5.0_MCFDir = /usr/people3/caldwell/Sarb_FullTest/sarb/rcf/mcf/sarb
SS5.0_PGSDir = /usr/local/TOOLKIT
SS5.0_SCRDir = /usr/people3/caldwell/Sarb_FullTest/sarb/data/scr

###################################
# Input file names
###################################
SS5.0_Input.crsmet = CER_CRSB_Terra-FM2-MODIS_Beta3_011014.2001010100.met
SS5.0_Input.crsb = CER_CRSB_Terra-FM2-MODIS_Beta3_011014.2001010100
SS5.0_Input.ssfa = CER_SSFA_Terra-FM2-MODIS_Edition1A_024025.2001010100
```

```
#####################################
# Output file names
#####################################
SS5.0_Output.crsb = CER_CRSB_Terra-FM2-MODIS_Beta3_011014.2001010100
SS5.0_Output.crsqc = CER_HQCR_Terra-FM2-MODIS_SSIT_999999.2001010100
SS5.0_Output.crshdf = CER_CRS_Terra-FM2-MODIS_SSIT_999999.2001010100

####################################
# Log file names
####################################
SS5.0_Logsfile.1 = CER5.3P1_LogStatus_Terra-FM2-MODIS_SSIT_999999.2001010100
SS5.0_Logsfile.2 = CER5.3P1_LogReport_Terra-FM2-MODIS_SSIT_999999.2001010100
SS5.0_Logsfile.3 = CER5.3P1_LogUser_Terra-FM2-MODIS_SSIT_999999.2001010100

####################################
# Temporary file names
####################################
Get_tempfile =  GetAttr.temp.2001010100
MCF_tempfile =  MCFWrite.temp.2001010100
```

C.4 Sample ASCII (PCFin) File Listing for CER5.4P1

```
###########################
# CERES baseline Metadata
###########################
PGEName = CER5.4P1
SamplingStrategy = Terra-FM1-MODIS
ProductionStrategy = SSIT
CERDataDateYear = 2001
CERDataDateMonth = 06
ConfigurationCode = 999999
SWsccr = 315
DATAsccr = 315
Sat_name = Terra
Inst_name = FM1
Imag_name = MODIS

####################################
# PGE specific runtime parameters
####################################
Satellite_Instrument = Terra-FM1-MODIS
Ancillary_Data_Set = DER3/SIG3
SP_MODEL_NUM = 1
RUN_SURF_ALG = 1
PGE_VERSION = 0400
```

```
TK_Ver = SCF TK5.2.7
GenAvailTab = Y
GenStatTab = N
GenStatPlot = N

#################################
# PCF required directories
#################################
SS5.0_InputDir.HQC = /usr/people4/caldwell/sarb/data/out_comp/qa_reports/sarb
SS5.0_OutputDir.MQC = /usr/people4/caldwell/sarb/data/out_comp/qa_reports/sarb
SS5.0_InputDir.CRS = /usr/people4/caldwell/sarb/data/out_comp/data/sarb
SS5.0_RunDir =  /usr/people4/caldwell/sarb/bin/sarb
SS5.0_LogsDir =  /usr/people4/caldwell/sarb/data/runlogs/sarb
SS5.0_MCFDir = /usr/people4/caldwell/sarb/rcf/mcf/sarb
SS5.0_PGSDir = /usr/local/TOOLKIT
SS5.0_SCRDir = /usr/people4/caldwell/sarb/data/scr

#################################
# Input file names
#################################
SS5.0_Input.hqc_1 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060100
SS5.0_Input.hqc_2 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060101
SS5.0_Input.hqc_3 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060102
SS5.0_Input.hqc_4 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060103
SS5.0_Input.hqc_5 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060104
SS5.0_Input.hqc_6 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060105
SS5.0_Input.hqc_7 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060106
SS5.0_Input.hqc_8 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060107
SS5.0_Input.hqc_9 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060108
SS5.0_Input.hqc_10 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060109
SS5.0_Input.hqc_11 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060110
SS5.0_Input.hqc_12 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060111
SS5.0_Input.hqc_13 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060112
SS5.0_Input.hqc_14 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060113
SS5.0_Input.hqc_15 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060114
SS5.0_Input.hqc_16 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060115
SS5.0_Input.hqc_17 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060116
SS5.0_Input.hqc_18 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060117
SS5.0_Input.hqc_19 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060118
SS5.0_Input.hqc_20 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060119
SS5.0_Input.hqc_21 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060120
SS5.0_Input.hqc_22 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060121
SS5.0_Input.hqc_23 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060122
SS5.0_Input.hqc_24 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060123
SS5.0_Input.hqc_25 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060200
SS5.0_Input.hqc_26 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060201
```

SS5.0_Input.hqc_27 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060202
SS5.0_Input.hqc_28 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060203
SS5.0_Input.hqc_29 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060204
SS5.0_Input.hqc_30 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060205
SS5.0_Input.hqc_31 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060206
SS5.0_Input.hqc_32 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060207
SS5.0_Input.hqc_33 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060208
SS5.0_Input.hqc_34 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060209
SS5.0_Input.hqc_35 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060210
SS5.0_Input.hqc_36 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060211
SS5.0_Input.hqc_37 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060212
SS5.0_Input.hqc_38 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060213
SS5.0_Input.hqc_39 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060214
SS5.0_Input.hqc_40 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060215
SS5.0_Input.hqc_41 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060216
SS5.0_Input.hqc_42 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060217
SS5.0_Input.hqc_43 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060218
SS5.0_Input.hqc_44 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060219
SS5.0_Input.hqc_45 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060220
SS5.0_Input.hqc_46 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060221
SS5.0_Input.hqc_47 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060222
SS5.0_Input.hqc_48 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060223
SS5.0_Input.hqc_49 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060300
SS5.0_Input.hqc_50 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060301
SS5.0_Input.hqc_51 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060302
SS5.0_Input.hqc_52 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060303
SS5.0_Input.hqc_53 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060304
SS5.0_Input.hqc_54 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060305
SS5.0_Input.hqc_55 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060306
SS5.0_Input.hqc_56 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060307
SS5.0_Input.hqc_57 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060308
SS5.0_Input.hqc_58 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060309
SS5.0_Input.hqc_59 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060310
SS5.0_Input.hqc_60 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060311
SS5.0_Input.hqc_61 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060312
SS5.0_Input.hqc_62 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060313
SS5.0_Input.hqc_63 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060314
SS5.0_Input.hqc_64 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060315
SS5.0_Input.hqc_65 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060316
SS5.0_Input.hqc_66 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060317
SS5.0_Input.hqc_67 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060318
SS5.0_Input.hqc_68 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060319
SS5.0_Input.hqc_69 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060320
SS5.0_Input.hqc_70 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060321
SS5.0_Input.hqc_71 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060322
SS5.0_Input.hqc_72 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060323

SS5.0_Input.hqc_73 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060400
SS5.0_Input.hqc_74 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060401
SS5.0_Input.hqc_75 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060402
SS5.0_Input.hqc_76 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060403
SS5.0_Input.hqc_77 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060404
SS5.0_Input.hqc_78 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060405
SS5.0_Input.hqc_79 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060406
SS5.0_Input.hqc_80 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060407
SS5.0_Input.hqc_81 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060408
SS5.0_Input.hqc_82 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060409
SS5.0_Input.hqc_83 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060410
SS5.0_Input.hqc_84 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060411
SS5.0_Input.hqc_85 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060412
SS5.0_Input.hqc_86 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060413
SS5.0_Input.hqc_87 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060414
SS5.0_Input.hqc_88 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060415
SS5.0_Input.hqc_89 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060416
SS5.0_Input.hqc_90 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060417
SS5.0_Input.hqc_91 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060418
SS5.0_Input.hqc_92 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060419
SS5.0_Input.hqc_93 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060420
SS5.0_Input.hqc_94 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060421
SS5.0_Input.hqc_95 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060422
SS5.0_Input.hqc_96 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060423
SS5.0_Input.hqc_97 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060500
SS5.0_Input.hqc_98 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060501
SS5.0_Input.hqc_99 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060502
SS5.0_Input.hqc_100 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060503
SS5.0_Input.hqc_101 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060504
SS5.0_Input.hqc_102 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060505
SS5.0_Input.hqc_103 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060506
SS5.0_Input.hqc_104 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060507
SS5.0_Input.hqc_105 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060508
SS5.0_Input.hqc_106 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060509
SS5.0_Input.hqc_107 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060510
SS5.0_Input.hqc_108 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060511
SS5.0_Input.hqc_109 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060512
SS5.0_Input.hqc_110 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060513
SS5.0_Input.hqc_111 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060514
SS5.0_Input.hqc_112 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060515
SS5.0_Input.hqc_113 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060516
SS5.0_Input.hqc_114 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060517
SS5.0_Input.hqc_115 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060518
SS5.0_Input.hqc_116 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060519
SS5.0_Input.hqc_117 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060520
SS5.0_Input.hqc_118 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060521

SS5.0_Input.hqc_119 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060522
SS5.0_Input.hqc_120 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060523
SS5.0_Input.hqc_121 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060600
SS5.0_Input.hqc_122 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060601
SS5.0_Input.hqc_123 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060602
SS5.0_Input.hqc_124 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060603
SS5.0_Input.hqc_125 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060604
SS5.0_Input.hqc_126 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060605
SS5.0_Input.hqc_127 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060606
SS5.0_Input.hqc_128 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060607
SS5.0_Input.hqc_129 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060608
SS5.0_Input.hqc_130 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060609
SS5.0_Input.hqc_131 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060610
SS5.0_Input.hqc_132 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060611
SS5.0_Input.hqc_133 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060612
SS5.0_Input.hqc_134 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060613
SS5.0_Input.hqc_135 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060614
SS5.0_Input.hqc_136 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060615
SS5.0_Input.hqc_137 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060616
SS5.0_Input.hqc_138 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060617
SS5.0_Input.hqc_139 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060618
SS5.0_Input.hqc_140 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060619
SS5.0_Input.hqc_141 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060620
SS5.0_Input.hqc_142 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060621
SS5.0_Input.hqc_143 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060622
SS5.0_Input.hqc_144 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060623
SS5.0_Input.hqc_145 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060700
SS5.0_Input.hqc_146 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060701
SS5.0_Input.hqc_147 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060702
SS5.0_Input.hqc_148 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060703
SS5.0_Input.hqc_149 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060704
SS5.0_Input.hqc_150 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060705
SS5.0_Input.hqc_151 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060706
SS5.0_Input.hqc_152 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060707
SS5.0_Input.hqc_153 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060708
SS5.0_Input.hqc_154 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060709
SS5.0_Input.hqc_155 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060710
SS5.0_Input.hqc_156 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060711
SS5.0_Input.hqc_157 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060712
SS5.0_Input.hqc_158 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060713
SS5.0_Input.hqc_159 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060714
SS5.0_Input.hqc_160 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060715
SS5.0_Input.hqc_161 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060716
SS5.0_Input.hqc_162 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060717
SS5.0_Input.hqc_163 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060718
SS5.0_Input.hqc_164 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060719

SS5.0_Input.hqc_165 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060720
SS5.0_Input.hqc_166 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060721
SS5.0_Input.hqc_167 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060722
SS5.0_Input.hqc_168 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060723
SS5.0_Input.hqc_169 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060800
SS5.0_Input.hqc_170 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060801
SS5.0_Input.hqc_171 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060802
SS5.0_Input.hqc_172 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060803
SS5.0_Input.hqc_173 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060804
SS5.0_Input.hqc_174 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060805
SS5.0_Input.hqc_175 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060806
SS5.0_Input.hqc_176 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060807
SS5.0_Input.hqc_177 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060808
SS5.0_Input.hqc_178 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060809
SS5.0_Input.hqc_179 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060810
SS5.0_Input.hqc_180 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060811
SS5.0_Input.hqc_181 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060812
SS5.0_Input.hqc_182 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060813
SS5.0_Input.hqc_183 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060814
SS5.0_Input.hqc_184 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060815
SS5.0_Input.hqc_185 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060816
SS5.0_Input.hqc_186 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060817
SS5.0_Input.hqc_187 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060818
SS5.0_Input.hqc_188 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060819
SS5.0_Input.hqc_189 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060820
SS5.0_Input.hqc_190 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060821
SS5.0_Input.hqc_191 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060822
SS5.0_Input.hqc_192 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060823
SS5.0_Input.hqc_193 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060900
SS5.0_Input.hqc_194 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060901
SS5.0_Input.hqc_195 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060902
SS5.0_Input.hqc_196 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060903
SS5.0_Input.hqc_197 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060904
SS5.0_Input.hqc_198 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060905
SS5.0_Input.hqc_199 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060906
SS5.0_Input.hqc_200 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060907
SS5.0_Input.hqc_201 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060908
SS5.0_Input.hqc_202 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060909
SS5.0_Input.hqc_203 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060910
SS5.0_Input.hqc_204 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060911
SS5.0_Input.hqc_205 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060912
SS5.0_Input.hqc_206 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060913
SS5.0_Input.hqc_207 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060914
SS5.0_Input.hqc_208 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060915
SS5.0_Input.hqc_209 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060916
SS5.0_Input.hqc_210 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060917

SS5.0_Input.hqc_211 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060918
SS5.0_Input.hqc_212 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060919
SS5.0_Input.hqc_213 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060920
SS5.0_Input.hqc_214 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060921
SS5.0_Input.hqc_215 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060922
SS5.0_Input.hqc_216 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001060923
SS5.0_Input.hqc_217 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061000
SS5.0_Input.hqc_218 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061001
SS5.0_Input.hqc_219 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061002
SS5.0_Input.hqc_220 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061003
SS5.0_Input.hqc_221 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061004
SS5.0_Input.hqc_222 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061005
SS5.0_Input.hqc_223 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061006
SS5.0_Input.hqc_224 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061007
SS5.0_Input.hqc_225 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061008
SS5.0_Input.hqc_226 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061009
SS5.0_Input.hqc_227 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061010
SS5.0_Input.hqc_228 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061011
SS5.0_Input.hqc_229 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061012
SS5.0_Input.hqc_230 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061013
SS5.0_Input.hqc_231 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061014
SS5.0_Input.hqc_232 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061015
SS5.0_Input.hqc_233 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061016
SS5.0_Input.hqc_234 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061017
SS5.0_Input.hqc_235 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061018
SS5.0_Input.hqc_236 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061019
SS5.0_Input.hqc_237 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061020
SS5.0_Input.hqc_238 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061021
SS5.0_Input.hqc_239 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061022
SS5.0_Input.hqc_240 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061023
SS5.0_Input.hqc_241 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061100
SS5.0_Input.hqc_242 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061101
SS5.0_Input.hqc_243 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061102
SS5.0_Input.hqc_244 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061103
SS5.0_Input.hqc_245 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061104
SS5.0_Input.hqc_246 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061105
SS5.0_Input.hqc_247 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061106
SS5.0_Input.hqc_248 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061107
SS5.0_Input.hqc_249 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061108
SS5.0_Input.hqc_250 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061109
SS5.0_Input.hqc_251 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061110
SS5.0_Input.hqc_252 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061111
SS5.0_Input.hqc_253 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061112
SS5.0_Input.hqc_254 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061113
SS5.0_Input.hqc_255 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061114
SS5.0_Input.hqc_256 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061115

SS5.0_Input.hqc_257 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061116
SS5.0_Input.hqc_258 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061117
SS5.0_Input.hqc_259 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061118
SS5.0_Input.hqc_260 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061119
SS5.0_Input.hqc_261 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061120
SS5.0_Input.hqc_262 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061121
SS5.0_Input.hqc_263 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061122
SS5.0_Input.hqc_264 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061123
SS5.0_Input.hqc_265 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061200
SS5.0_Input.hqc_266 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061201
SS5.0_Input.hqc_267 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061202
SS5.0_Input.hqc_268 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061203
SS5.0_Input.hqc_269 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061204
SS5.0_Input.hqc_270 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061205
SS5.0_Input.hqc_271 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061206
SS5.0_Input.hqc_272 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061207
SS5.0_Input.hqc_273 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061208
SS5.0_Input.hqc_274 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061209
SS5.0_Input.hqc_275 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061210
SS5.0_Input.hqc_276 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061211
SS5.0_Input.hqc_277 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061212
SS5.0_Input.hqc_278 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061213
SS5.0_Input.hqc_279 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061214
SS5.0_Input.hqc_280 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061215
SS5.0_Input.hqc_281 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061216
SS5.0_Input.hqc_282 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061217
SS5.0_Input.hqc_283 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061218
SS5.0_Input.hqc_284 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061219
SS5.0_Input.hqc_285 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061220
SS5.0_Input.hqc_286 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061221
SS5.0_Input.hqc_287 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061222
SS5.0_Input.hqc_288 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061223
SS5.0_Input.hqc_289 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061300
SS5.0_Input.hqc_290 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061301
SS5.0_Input.hqc_291 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061302
SS5.0_Input.hqc_292 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061303
SS5.0_Input.hqc_293 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061304
SS5.0_Input.hqc_294 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061305
SS5.0_Input.hqc_295 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061306
SS5.0_Input.hqc_296 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061307
SS5.0_Input.hqc_297 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061308
SS5.0_Input.hqc_298 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061309
SS5.0_Input.hqc_299 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061310
SS5.0_Input.hqc_300 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061311
SS5.0_Input.hqc_301 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061312
SS5.0_Input.hqc_302 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061313

SS5.0_Input.hqc_303 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061314
SS5.0_Input.hqc_304 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061315
SS5.0_Input.hqc_305 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061316
SS5.0_Input.hqc_306 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061317
SS5.0_Input.hqc_307 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061318
SS5.0_Input.hqc_308 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061319
SS5.0_Input.hqc_309 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061320
SS5.0_Input.hqc_310 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061321
SS5.0_Input.hqc_311 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061322
SS5.0_Input.hqc_312 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061323
SS5.0_Input.hqc_313 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061400
SS5.0_Input.hqc_314 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061401
SS5.0_Input.hqc_315 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061402
SS5.0_Input.hqc_316 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061403
SS5.0_Input.hqc_317 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061404
SS5.0_Input.hqc_318 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061405
SS5.0_Input.hqc_319 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061406
SS5.0_Input.hqc_320 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061407
SS5.0_Input.hqc_321 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061408
SS5.0_Input.hqc_322 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061409
SS5.0_Input.hqc_323 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061410
SS5.0_Input.hqc_324 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061411
SS5.0_Input.hqc_325 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061412
SS5.0_Input.hqc_326 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061413
SS5.0_Input.hqc_327 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061414
SS5.0_Input.hqc_328 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061415
SS5.0_Input.hqc_329 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061416
SS5.0_Input.hqc_330 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061417
SS5.0_Input.hqc_331 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061418
SS5.0_Input.hqc_332 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061419
SS5.0_Input.hqc_333 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061420
SS5.0_Input.hqc_334 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061421
SS5.0_Input.hqc_335 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061422
SS5.0_Input.hqc_336 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061423
SS5.0_Input.hqc_337 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061500
SS5.0_Input.hqc_338 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061501
SS5.0_Input.hqc_339 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061502
SS5.0_Input.hqc_340 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061503
SS5.0_Input.hqc_341 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061504
SS5.0_Input.hqc_342 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061505
SS5.0_Input.hqc_343 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061506
SS5.0_Input.hqc_344 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061507
SS5.0_Input.hqc_345 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061508
SS5.0_Input.hqc_346 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061509
SS5.0_Input.hqc_347 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061510
SS5.0_Input.hqc_348 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061511

SS5.0_Input.hqc_349 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061512
SS5.0_Input.hqc_350 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061513
SS5.0_Input.hqc_351 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061514
SS5.0_Input.hqc_352 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061515
SS5.0_Input.hqc_353 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061516
SS5.0_Input.hqc_354 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061517
SS5.0_Input.hqc_355 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061518
SS5.0_Input.hqc_356 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061519
SS5.0_Input.hqc_357 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061520
SS5.0_Input.hqc_358 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061521
SS5.0_Input.hqc_359 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061522
SS5.0_Input.hqc_360 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061523
SS5.0_Input.hqc_361 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061600
SS5.0_Input.hqc_362 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061601
SS5.0_Input.hqc_363 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061602
SS5.0_Input.hqc_364 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061603
SS5.0_Input.hqc_365 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061604
SS5.0_Input.hqc_366 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061605
SS5.0_Input.hqc_367 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061606
SS5.0_Input.hqc_368 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061607
SS5.0_Input.hqc_369 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061608
SS5.0_Input.hqc_370 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061609
SS5.0_Input.hqc_371 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061610
SS5.0_Input.hqc_372 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061611
SS5.0_Input.hqc_373 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061612
SS5.0_Input.hqc_374 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061613
SS5.0_Input.hqc_375 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061614
SS5.0_Input.hqc_376 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061615
SS5.0_Input.hqc_377 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061616
SS5.0_Input.hqc_378 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061617
SS5.0_Input.hqc_379 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061618
SS5.0_Input.hqc_380 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061619
SS5.0_Input.hqc_381 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061620
SS5.0_Input.hqc_382 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061621
SS5.0_Input.hqc_383 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061622
SS5.0_Input.hqc_384 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061623
SS5.0_Input.hqc_385 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061700
SS5.0_Input.hqc_386 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061701
SS5.0_Input.hqc_387 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061702
SS5.0_Input.hqc_388 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061703
SS5.0_Input.hqc_389 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061704
SS5.0_Input.hqc_390 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061705
SS5.0_Input.hqc_391 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061706
SS5.0_Input.hqc_392 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061707
SS5.0_Input.hqc_393 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061708
SS5.0_Input.hqc_394 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061709

SS5.0_Input.hqc_395 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061710
SS5.0_Input.hqc_396 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061711
SS5.0_Input.hqc_397 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061712
SS5.0_Input.hqc_398 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061713
SS5.0_Input.hqc_399 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061714
SS5.0_Input.hqc_400 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061715
SS5.0_Input.hqc_401 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061716
SS5.0_Input.hqc_402 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061717
SS5.0_Input.hqc_403 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061718
SS5.0_Input.hqc_404 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061719
SS5.0_Input.hqc_405 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061720
SS5.0_Input.hqc_406 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061721
SS5.0_Input.hqc_407 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061722
SS5.0_Input.hqc_408 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061723
SS5.0_Input.hqc_409 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061800
SS5.0_Input.hqc_410 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061801
SS5.0_Input.hqc_411 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061802
SS5.0_Input.hqc_412 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061803
SS5.0_Input.hqc_413 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061804
SS5.0_Input.hqc_414 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061805
SS5.0_Input.hqc_415 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061806
SS5.0_Input.hqc_416 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061807
SS5.0_Input.hqc_417 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061808
SS5.0_Input.hqc_418 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061809
SS5.0_Input.hqc_419 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061810
SS5.0_Input.hqc_420 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061811
SS5.0_Input.hqc_421 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061812
SS5.0_Input.hqc_422 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061813
SS5.0_Input.hqc_423 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061814
SS5.0_Input.hqc_424 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061815
SS5.0_Input.hqc_425 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061816
SS5.0_Input.hqc_426 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061817
SS5.0_Input.hqc_427 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061818
SS5.0_Input.hqc_428 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061819
SS5.0_Input.hqc_429 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061820
SS5.0_Input.hqc_430 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061821
SS5.0_Input.hqc_431 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061822
SS5.0_Input.hqc_432 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061823
SS5.0_Input.hqc_433 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061900
SS5.0_Input.hqc_434 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061901
SS5.0_Input.hqc_435 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061902
SS5.0_Input.hqc_436 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061903
SS5.0_Input.hqc_437 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061904
SS5.0_Input.hqc_438 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061905
SS5.0_Input.hqc_439 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061906
SS5.0_Input.hqc_440 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061907

SS5.0_Input.hqc_441 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061908
SS5.0_Input.hqc_442 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061909
SS5.0_Input.hqc_443 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061910
SS5.0_Input.hqc_444 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061911
SS5.0_Input.hqc_445 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061912
SS5.0_Input.hqc_446 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061913
SS5.0_Input.hqc_447 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061914
SS5.0_Input.hqc_448 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061915
SS5.0_Input.hqc_449 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061916
SS5.0_Input.hqc_450 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061917
SS5.0_Input.hqc_451 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061918
SS5.0_Input.hqc_452 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061919
SS5.0_Input.hqc_453 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061920
SS5.0_Input.hqc_454 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061921
SS5.0_Input.hqc_455 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061922
SS5.0_Input.hqc_456 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001061923
SS5.0_Input.hqc_457 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062000
SS5.0_Input.hqc_458 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062001
SS5.0_Input.hqc_459 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062002
SS5.0_Input.hqc_460 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062003
SS5.0_Input.hqc_461 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062004
SS5.0_Input.hqc_462 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062005
SS5.0_Input.hqc_463 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062006
SS5.0_Input.hqc_464 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062007
SS5.0_Input.hqc_465 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062008
SS5.0_Input.hqc_466 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062009
SS5.0_Input.hqc_467 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062010
SS5.0_Input.hqc_468 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062011
SS5.0_Input.hqc_469 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062012
SS5.0_Input.hqc_470 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062013
SS5.0_Input.hqc_471 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062014
SS5.0_Input.hqc_472 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062015
SS5.0_Input.hqc_473 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062016
SS5.0_Input.hqc_474 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062017
SS5.0_Input.hqc_475 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062018
SS5.0_Input.hqc_476 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062019
SS5.0_Input.hqc_477 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062020
SS5.0_Input.hqc_478 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062021
SS5.0_Input.hqc_479 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062022
SS5.0_Input.hqc_480 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062023
SS5.0_Input.hqc_481 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062100
SS5.0_Input.hqc_482 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062101
SS5.0_Input.hqc_483 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062102
SS5.0_Input.hqc_484 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062103
SS5.0_Input.hqc_485 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062104
SS5.0_Input.hqc_486 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062105

SS5.0_Input.hqc_487 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062106
SS5.0_Input.hqc_488 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062107
SS5.0_Input.hqc_489 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062108
SS5.0_Input.hqc_490 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062109
SS5.0_Input.hqc_491 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062110
SS5.0_Input.hqc_492 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062111
SS5.0_Input.hqc_493 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062112
SS5.0_Input.hqc_494 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062113
SS5.0_Input.hqc_495 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062114
SS5.0_Input.hqc_496 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062115
SS5.0_Input.hqc_497 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062116
SS5.0_Input.hqc_498 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062117
SS5.0_Input.hqc_499 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062118
SS5.0_Input.hqc_500 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062119
SS5.0_Input.hqc_501 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062120
SS5.0_Input.hqc_502 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062121
SS5.0_Input.hqc_503 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062122
SS5.0_Input.hqc_504 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062123
SS5.0_Input.hqc_505 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062200
SS5.0_Input.hqc_506 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062201
SS5.0_Input.hqc_507 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062202
SS5.0_Input.hqc_508 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062203
SS5.0_Input.hqc_509 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062204
SS5.0_Input.hqc_510 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062205
SS5.0_Input.hqc_511 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062206
SS5.0_Input.hqc_512 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062207
SS5.0_Input.hqc_513 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062208
SS5.0_Input.hqc_514 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062209
SS5.0_Input.hqc_515 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062210
SS5.0_Input.hqc_516 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062211
SS5.0_Input.hqc_517 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062212
SS5.0_Input.hqc_518 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062213
SS5.0_Input.hqc_519 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062214
SS5.0_Input.hqc_520 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062215
SS5.0_Input.hqc_521 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062216
SS5.0_Input.hqc_522 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062217
SS5.0_Input.hqc_523 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062218
SS5.0_Input.hqc_524 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062219
SS5.0_Input.hqc_525 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062220
SS5.0_Input.hqc_526 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062221
SS5.0_Input.hqc_527 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062222
SS5.0_Input.hqc_528 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062223
SS5.0_Input.hqc_529 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062300
SS5.0_Input.hqc_530 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062301
SS5.0_Input.hqc_531 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062302
SS5.0_Input.hqc_532 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062303

SS5.0_Input.hqc_533 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062304
SS5.0_Input.hqc_534 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062305
SS5.0_Input.hqc_535 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062306
SS5.0_Input.hqc_536 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062307
SS5.0_Input.hqc_537 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062308
SS5.0_Input.hqc_538 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062309
SS5.0_Input.hqc_539 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062310
SS5.0_Input.hqc_540 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062311
SS5.0_Input.hqc_541 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062312
SS5.0_Input.hqc_542 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062313
SS5.0_Input.hqc_543 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062314
SS5.0_Input.hqc_544 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062315
SS5.0_Input.hqc_545 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062316
SS5.0_Input.hqc_546 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062317
SS5.0_Input.hqc_547 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062318
SS5.0_Input.hqc_548 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062319
SS5.0_Input.hqc_549 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062320
SS5.0_Input.hqc_550 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062321
SS5.0_Input.hqc_551 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062322
SS5.0_Input.hqc_552 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062323
SS5.0_Input.hqc_553 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062400
SS5.0_Input.hqc_554 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062401
SS5.0_Input.hqc_555 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062402
SS5.0_Input.hqc_556 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062403
SS5.0_Input.hqc_557 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062404
SS5.0_Input.hqc_558 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062405
SS5.0_Input.hqc_559 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062406
SS5.0_Input.hqc_560 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062407
SS5.0_Input.hqc_561 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062408
SS5.0_Input.hqc_562 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062409
SS5.0_Input.hqc_563 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062410
SS5.0_Input.hqc_564 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062411
SS5.0_Input.hqc_565 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062412
SS5.0_Input.hqc_566 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062413
SS5.0_Input.hqc_567 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062414
SS5.0_Input.hqc_568 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062415
SS5.0_Input.hqc_569 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062416
SS5.0_Input.hqc_570 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062417
SS5.0_Input.hqc_571 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062418
SS5.0_Input.hqc_572 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062419
SS5.0_Input.hqc_573 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062420
SS5.0_Input.hqc_574 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062421
SS5.0_Input.hqc_575 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062422
SS5.0_Input.hqc_576 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062423
SS5.0_Input.hqc_577 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062500
SS5.0_Input.hqc_578 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062501

SS5.0_Input.hqc_579 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062502
SS5.0_Input.hqc_580 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062503
SS5.0_Input.hqc_581 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062504
SS5.0_Input.hqc_582 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062505
SS5.0_Input.hqc_583 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062506
SS5.0_Input.hqc_584 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062507
SS5.0_Input.hqc_585 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062508
SS5.0_Input.hqc_586 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062509
SS5.0_Input.hqc_587 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062510
SS5.0_Input.hqc_588 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062511
SS5.0_Input.hqc_589 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062512
SS5.0_Input.hqc_590 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062513
SS5.0_Input.hqc_591 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062514
SS5.0_Input.hqc_592 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062515
SS5.0_Input.hqc_593 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062516
SS5.0_Input.hqc_594 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062517
SS5.0_Input.hqc_595 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062518
SS5.0_Input.hqc_596 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062519
SS5.0_Input.hqc_597 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062520
SS5.0_Input.hqc_598 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062521
SS5.0_Input.hqc_599 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062522
SS5.0_Input.hqc_600 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062523
SS5.0_Input.hqc_601 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062600
SS5.0_Input.hqc_602 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062601
SS5.0_Input.hqc_603 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062602
SS5.0_Input.hqc_604 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062603
SS5.0_Input.hqc_605 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062604
SS5.0_Input.hqc_606 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062605
SS5.0_Input.hqc_607 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062606
SS5.0_Input.hqc_608 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062607
SS5.0_Input.hqc_609 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062608
SS5.0_Input.hqc_610 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062609
SS5.0_Input.hqc_611 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062610
SS5.0_Input.hqc_612 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062611
SS5.0_Input.hqc_613 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062612
SS5.0_Input.hqc_614 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062613
SS5.0_Input.hqc_615 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062614
SS5.0_Input.hqc_616 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062615
SS5.0_Input.hqc_617 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062616
SS5.0_Input.hqc_618 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062617
SS5.0_Input.hqc_619 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062618
SS5.0_Input.hqc_620 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062619
SS5.0_Input.hqc_621 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062620
SS5.0_Input.hqc_622 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062621
SS5.0_Input.hqc_623 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062622
SS5.0_Input.hqc_624 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062623

SS5.0_Input.hqc_625 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062700
SS5.0_Input.hqc_626 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062701
SS5.0_Input.hqc_627 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062702
SS5.0_Input.hqc_628 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062703
SS5.0_Input.hqc_629 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062704
SS5.0_Input.hqc_630 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062705
SS5.0_Input.hqc_631 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062706
SS5.0_Input.hqc_632 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062707
SS5.0_Input.hqc_633 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062708
SS5.0_Input.hqc_634 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062709
SS5.0_Input.hqc_635 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062710
SS5.0_Input.hqc_636 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062711
SS5.0_Input.hqc_637 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062712
SS5.0_Input.hqc_638 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062713
SS5.0_Input.hqc_639 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062714
SS5.0_Input.hqc_640 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062715
SS5.0_Input.hqc_641 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062716
SS5.0_Input.hqc_642 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062717
SS5.0_Input.hqc_643 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062718
SS5.0_Input.hqc_644 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062719
SS5.0_Input.hqc_645 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062720
SS5.0_Input.hqc_646 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062721
SS5.0_Input.hqc_647 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062722
SS5.0_Input.hqc_648 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062723
SS5.0_Input.hqc_649 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062800
SS5.0_Input.hqc_650 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062801
SS5.0_Input.hqc_651 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062802
SS5.0_Input.hqc_652 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062803
SS5.0_Input.hqc_653 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062804
SS5.0_Input.hqc_654 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062805
SS5.0_Input.hqc_655 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062806
SS5.0_Input.hqc_656 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062807
SS5.0_Input.hqc_657 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062808
SS5.0_Input.hqc_658 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062809
SS5.0_Input.hqc_659 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062810
SS5.0_Input.hqc_660 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062811
SS5.0_Input.hqc_661 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062812
SS5.0_Input.hqc_662 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062813
SS5.0_Input.hqc_663 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062814
SS5.0_Input.hqc_664 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062815
SS5.0_Input.hqc_665 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062816
SS5.0_Input.hqc_666 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062817
SS5.0_Input.hqc_667 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062818
SS5.0_Input.hqc_668 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062819
SS5.0_Input.hqc_669 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062820
SS5.0_Input.hqc_670 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062821

SS5.0_Input.hqc_671 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062822
SS5.0_Input.hqc_672 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062823
SS5.0_Input.hqc_673 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062900
SS5.0_Input.hqc_674 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062901
SS5.0_Input.hqc_675 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062902
SS5.0_Input.hqc_676 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062903
SS5.0_Input.hqc_677 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062904
SS5.0_Input.hqc_678 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062905
SS5.0_Input.hqc_679 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062906
SS5.0_Input.hqc_680 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062907
SS5.0_Input.hqc_681 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062908
SS5.0_Input.hqc_682 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062909
SS5.0_Input.hqc_683 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062910
SS5.0_Input.hqc_684 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062911
SS5.0_Input.hqc_685 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062912
SS5.0_Input.hqc_686 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062913
SS5.0_Input.hqc_687 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062914
SS5.0_Input.hqc_688 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062915
SS5.0_Input.hqc_689 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062916
SS5.0_Input.hqc_690 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062917
SS5.0_Input.hqc_691 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062918
SS5.0_Input.hqc_692 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062919
SS5.0_Input.hqc_693 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062920
SS5.0_Input.hqc_694 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062921
SS5.0_Input.hqc_695 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062922
SS5.0_Input.hqc_696 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001062923
SS5.0_Input.hqc_697 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063000
SS5.0_Input.hqc_698 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063001
SS5.0_Input.hqc_699 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063002
SS5.0_Input.hqc_700 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063003
SS5.0_Input.hqc_701 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063004
SS5.0_Input.hqc_702 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063005
SS5.0_Input.hqc_703 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063006
SS5.0_Input.hqc_704 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063007
SS5.0_Input.hqc_705 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063008
SS5.0_Input.hqc_706 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063009
SS5.0_Input.hqc_707 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063010
SS5.0_Input.hqc_708 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063011
SS5.0_Input.hqc_709 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063012
SS5.0_Input.hqc_710 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063013
SS5.0_Input.hqc_711 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063014
SS5.0_Input.hqc_712 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063015
SS5.0_Input.hqc_713 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063016
SS5.0_Input.hqc_714 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063017
SS5.0_Input.hqc_715 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063018
SS5.0_Input.hqc_716 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063019

SS5.0_Input.hqc_717 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063020
SS5.0_Input.hqc_718 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063021
SS5.0_Input.hqc_719 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063022
SS5.0_Input.hqc_720 = CER_HQCR_Terra-FM1-MODIS_SSIT_999999.2001063023
SS5.0_Input.crsb_1 = CER_CRSB_Terra-FM1-MODIS_SSIT_999999.2001060106
SS5.0_Input.crsb_2 = CER_CRSB_Terra-FM1-MODIS_SSIT_999999.2001060809
SS5.0_Input.crsb_3 = CER_CRSB_Terra-FM1-MODIS_SSIT_999999.2001061415
SS5.0_Input.crsb_4 = CER_CRSB_Terra-FM1-MODIS_SSIT_999999.2001062118
SS5.0_Input.crsb_5 = CER_CRSB_Terra-FM1-MODIS_SSIT_999999.2001063023
SS5.0_Input.crs_1 = CER_CRS_Terra-FM1-MODIS_SSIT_999999.2001060106
SS5.0_Input.crs_2 = CER_CRS_Terra-FM1-MODIS_SSIT_999999.2001060809
SS5.0_Input.crs_3 = CER_CRS_Terra-FM1-MODIS_SSIT_999999.2001061415
SS5.0_Input.crs_4 = CER_CRS_Terra-FM1-MODIS_SSIT_999999.2001062118
SS5.0_Input.crs_5 = CER_CRS_Terra-FM1-MODIS_SSIT_999999.2001063023

##################################
Output file names
##################################
SS5.0_Output.crsmqcavail = CER_HMAVAIL_Terra-FM1-MODIS_SSIT_999999.200106
SS5.0_Output.crsmqcregreport = CER_HMRV_Terra-FM1-MODIS_SSIT_999999.200106
SS5.0_Output.crsmqcregreport.html = CER_HMRV_Terra-FM1-MODIS_SSIT_999999.200106.html
SS5.0_Output.crsmqcr.html = CER_HMQCR_Terra-FM1-MODIS_SSIT_999999.200106.html
SS5.0_Output.crsmqcr = CER_HMQCR_Terra-FM1-MODIS_SSIT_999999.200106
SS5.0_Input.crsbnew_1 = CER_CRSB_Terra-FM1-MODIS_SSIT_999999.2001060106
SS5.0_Input.crsbnew_2 = CER_CRSB_Terra-FM1-MODIS_SSIT_999999.2001060809
SS5.0_Input.crsbnew_3 = CER_CRSB_Terra-FM1-MODIS_SSIT_999999.2001061415
SS5.0_Input.crsbnew_4 = CER_CRSB_Terra-FM1-MODIS_SSIT_999999.2001062118
SS5.0_Input.crsbnew_5 = CER_CRSB_Terra-FM1-MODIS_SSIT_999999.2001063023
SS5.0_Input.crsbcomp_1 = CER_HCOMP_Terra-FM1-MODIS_SSIT_999999.2001060106
SS5.0_Input.crsbcomp_2 = CER_HCOMP_Terra-FM1-MODIS_SSIT_999999.2001060809
SS5.0_Input.crsbcomp_3 = CER_HCOMP_Terra-FM1-MODIS_SSIT_999999.2001061415
SS5.0_Input.crsbcomp_4 = CER_HCOMP_Terra-FM1-MODIS_SSIT_999999.2001062118
SS5.0_Input.crsbcomp_5 = CER_HCOMP_Terra-FM1-MODIS_SSIT_999999.2001063023

##################################
Log file names
##################################
SS5.0_Logsfile.1 = CER5.4P1_LogStatus_Terra-FM1-MODIS_SSIT_999999.200106
SS5.0_Logsfile.2 = CER5.4P1_LogReport_Terra-FM1-MODIS_SSIT_999999.200106
SS5.0_Logsfile.3 = CER5.4P1_LogUser_Terra-FM1-MODIS_SSIT_999999.200106

```
#################################
# Temporary file names
#################################
Get_tempfile =  GetAttr.temp.200106
MCF_tempfile =  MCFWrite.temp.200106
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