Code headers should be documented according to the *CDR General Software Coding Standards* found on the CDR Development Guidelines page <http://www.ncdc.noaa.gov/cdr/guidelines.html>.

Code headers are extracted at NCDC using Robodoc, thus the headers must be in a specific format. There are 3 parts to a Robodoc header.

First, a start tag (lets robodoc know where to start looking for headers).

Second, individual headers (in capital letters on line by themselves).

Third, a stop tag (let’s robodoc know there are no more headers).

The following are the minimum standards:

!@\*\*\*h\* CDR\_Name/name\_of\_source\_code *(this is the start tag)*

!

! NAME

! The name of the source code file.

!

! PURPOSE

! One or two sentences describing the source code file function.

!

! DESCRIPTION

! A description of the processing performed within this source code file.

! For published algorithms, provide a reference to the publication.

!

! AUTHOR

! A list of those who wrote the code in the file, and their

! organization name. This list can be easily kept up to date if each person that

! works on the code adds his or name.

!

! COPYRIGHT *(insert the following statement exactly as written)*

! THIS SOFTWARE AND ITS DOCUMENTATION ARE CONSIDERED TO BE IN THE PUBLIC

! DOMAIN AND THUS ARE AVAILABLE FOR UNRESTRICTED PUBLIC USE. THEY ARE

! FURNISHED "AS IS." THE AUTHORS, THE UNITED STATES GOVERNMENT, ITS

! INSTRUMENTALITIES, OFFICERS, EMPLOYEES, AND AGENTS MAKE NO WARRANTY,

! EXPRESS OR IMPLIED, AS TO THE USEFULNESS OF THE SOFTWARE AND

! DOCUMENTATION FOR ANY PURPOSE. THEY ASSUME NO RESPONSIBILITY (1) FOR

! THE USE OF THE SOFTWARE AND DOCUMENTATION; OR (2) TO PROVIDE TECHNICAL

! SUPPORT TO USERS.

!

! REVISION HISTORY

! The revision history of the file in forward chronological order, beginning with

! the initial version. This section should be appended with a new entry each time

! that a revised version of the software is submitted to the CDR Program and more

! often if appropriate. At a minimum changes to algorithms, interfaces, and outputs

! should be documented. For each such revision the new entry should provide version

! identification (at a minimum the revision date), the developer’s initials, a brief

! summary of the changes made, and the reason for the changes.

!

!@\*\*\*\*\* *(this is the end tag)*

*Note any comment character can be used in place of the “!”*

The following is a short example:

;@\*\*\*h\* MLT\_RSS/check\_grpt\_maps\_AMSU\_v3\_3.pro

;

; NAME

; check\_grpt\_maps\_AMSU\_v3\_3.pro

;

; PURPOSE

; Check AMSU montly gridded data for months with too little data

; Determines which months to use in merge and returns and array, months\_to\_use,

; that is used in subsequent steps to choose which satellite months to include

;

; DESCRIPTION

; This routine checks the AMSU GRPT data for months with too little data

;

; INPUTS

; num\_arr (should be a (144,72,num\_months,num\_sats) array of number of obs per

; grid cell sats\_to\_use (num\_AMSUs) array of integers 0 to ignore this satellite,

; 1, to use it num\_thres is the threshold for the mean number of observations to be

; good data.

; months\_to\_use\_mask is a (num\_months, num\_sats) array of integers:

; -1 to exclude

; 0 to use threshold to determine use (the usual case)

; 1 to use even if threshold fails

;

; OUTPUT

; months\_to\_use (num\_months,num\_sats) array of months to use in the merge.

; 1 means use,0 means don't use

;

; AUTHOR

; Carl Mears, Remote Sensing Systems

;

; COPYRIGHT

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; SOFTWARE AND DOCUMENTATION FOR ANY PURPOSE. THEY ASSUME NO RESPONSIBILITY (1) FOR

; THE USE OF THE SOFTWARE AND DOCUMENTATION; OR (2) TO PROVIDE TECHNICAL SUPPORT

; TO USERS.

;

; HISTORY

; 2/21/2019 Initial Version prepared for NCDC

;

; USAGE

; check\_grpt\_maps\_AMSU\_v3\_3, num\_arr,sats\_to\_use, num\_thres,

; months\_to\_use\_mask,months\_to\_use

;

;@\*\*\*\*\*