

SUMMARY ON FLAGS



Feb. 2015



L1 PRODUCT QUALITY CONTROL

You can see information on flag in “MEGHA-TROPIQUES Level 1 Products definition”

Different levels of quality control (QC) are available in MADRAS SAPHIR and SCARAB L1A products

- in global attributes
- in scans quality flags (QF)
- in samples (L1A) and pixels (L1A2/L1A3) quality flags

QF definitions are present in

- global attributes
- attributes of QF fields
- product definition document

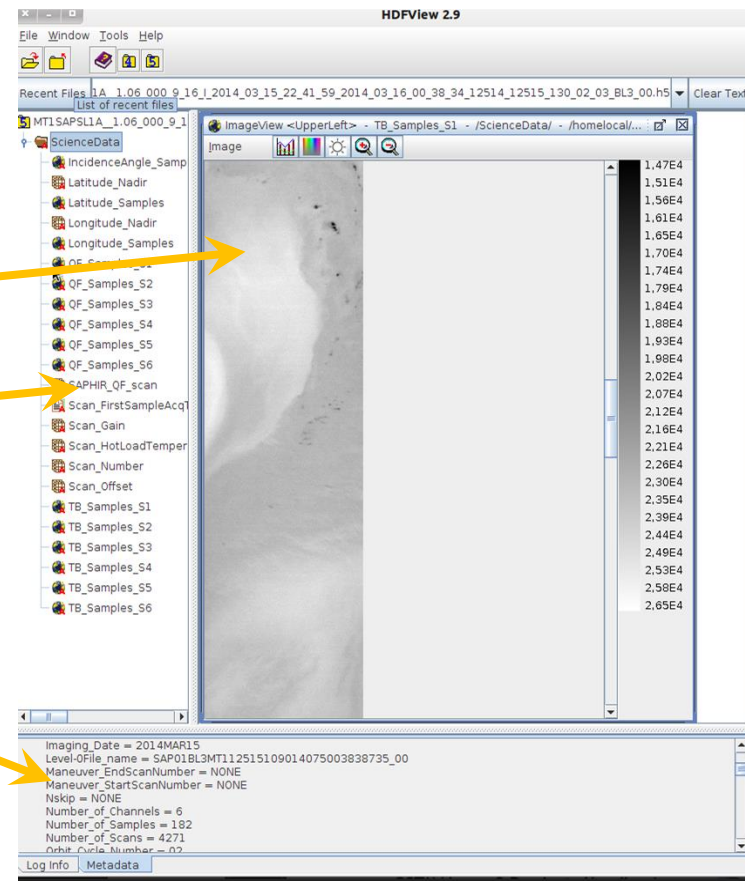
L1 PRODUCT QUALITY CONTROL

Different levels of quality control (QC) are available in MADRAS SAPHIR and SCARAB L1A products

- in global attributes
- in scans quality flags (QF)
- in samples (L1A) and pixels (L1A2/L1A3) quality flags

HDFview is useful for a quick look at HDF5 files

- quick look of data
- simple « on the flight » decoding of QF (from bin to 8 binaries array)
- global attributes



L1 PRODUCT QUALITY CONTROL

HOWTO test the quality of a L1 product

- global attributes

QF_Product_%Processed_Scans

- percentage of # processed scans wrt expected # of scans
- estimate # of missing scans
- a scan is missing since:
 - ◆ platform manoeuver
 - ◆ instrument unavailability (on/off)
 - ◆ Corrupted data ,...

L1 PRODUCT QUALITY CONTROL

HOWTO test the quality of a L1 product

- scans QF

MADRAS_QF_Scan / SAPHIR_QF_Scan / SCARAB_QF_SCAN

→ information on scan global quality, acquisition, possible sources of errors

→ a 16 bits field

If there can be only one

Scan / Row validity flag (#15)

→ 0 = valid / 1 = invalid

L1 PRODUCT QUALITY CONTROL

HOWTO test the quality of a L1 product

- scans QF

MADRAS_QF_Scan / SAPHIR_QF_Scan / SCARAB_QF_SCAN

→ information on scan global quality, acquisition, possible sources of errors

→ a 16 bits field

MADRAS only

CORRECTION: FLAG(#06) / CONSISTENCY (#07)

→ 0 = valid / 1 = invalid

→ 0 = valid correction /
1 = doubtful correction

L1 PRODUCT QUALITY CONTROL

HOWTO test the quality of a L1 product

- in sample/pixel QF

QF_{Samples/Pixels}_{C/S}1(2,3,4,..) : SAPHIR

QF_{Samples/Pixels}_Infrared(,Solar,SyntheticLW,Total,Visible):
SCARAB

→ detailed information on the acquisition context and processing of a single measurement

→ a 16 bits field

If there can be only two

TB or Radiance validity flag (#15)

→ 0 = valid / 1 = invalid

Geo-location estimation (#11)

→ 0 = valid / 1 = invalid