

Date : 09-11/05/2011

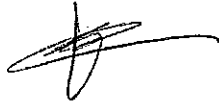

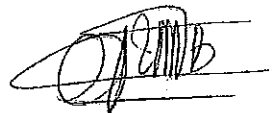


Référence : IA-MM-2100-3488-CNE

Page : 1 / 27

Lieu : CNES, DCT/ME/EI, Toulouse

## Main conclusions :

Test OK, some actions detailed in 4)

<u>Participants</u>	<u>Organismes</u>	<u>Visa</u>
Vincent Lonjou	CNES	11/05/2011 
Samuel Brunel	THALES Service	11/05/2011 
Dorothee Coppens	EUMETSAT	11/05/2011 
Fritz G. Wollenweber	EUMETSAT	11/5/11 
Foresi Alessandro	EUMETSAT	11/5/2011 

## Liste de diffusion complémentaire :

<u>Nom</u>	<u>Organisme</u>	<u>Nom</u>	<u>Organisme</u>
Carole Larigauderie	CNES	Frédérique Meunier	CNES
Denis Blumstein	CNES	Pequignot Eric	CNES
Chinaud Jordi	CNES		

## Table des matières

1) VALIDATION OF IASI L1/PPF UNDER AIX6-1.....	4
A) ORBIT 3638.....	4
B) ORBIT 3704.....	4
C) ORBIT 3236.....	4
D) ORBIT 3237.....	4
2) VALIDATION OF IASI L1/PPF UNDER LINUX.....	5
A) ORBIT 3638 ENG.....	5
I) GENERAL INFO ON PRODUCT .....	5
II) FTB RELATED VARIABLES.....	5
III) IAC RELATED VARIABLES.....	5
IV) IAX RELATED VARIABLES .....	5
V) ICC RELATED VARIABLES.....	5
VI) OPS RELATED VARIABLES.....	5
VII) QIS RELATED VARIABLES.....	5
VIII) DPT RELATED VARIABLES.....	5
IX) MCX RELATED VARIABLES.....	6
B) ORBIT 3638 L1C.....	7
I) GENERAL INFO ON PRODUCT.....	7
II) IRC RELATED VARIABLE.....	7
C) ORBIT 3704 ENG.....	8
I) GENERAL INFO ON PRODUCT.....	8
II) CCS RELATED VARIABLES.....	8
III) EUM RELATED VARIABLES.....	8
IV) FAX RELATED VARIABLES.....	8
V) FTB RELATED VARIABLES.....	8
VI) GEO RELATED VARIABLES.....	8
VII) IAC RELATED VARIABLES.....	9
VIII) IAX RELATED VARIABLES.....	9
IX) ICC RELATED VARIABLES.....	9
X) QIS RELATED VARIABLES.....	9
XI) SSD RELATED VARIABLES.....	9
XII) DPT RELATED VARIABLES.....	9
XIII) MCX RELATED VARIABLES.....	10
D) ORBIT 3704 L1C.....	11
I) GENERAL INFO ON PRODUCT.....	11
II) CCS RELATED VARIABLES.....	11
III) EPS RELATED VARIABLES.....	11
IV) GEO RELATED VARIABLES.....	11
V) IRC RELATED VARIABLES.....	12
VI) QIS RELATED VARIABLES.....	12
VII) GEOLOCALIZATION DIFFERENCES.....	12
VIII) SPECTRA DIFFERENCES.....	13
E) ORBIT 3236 ENG.....	18
I) GENERAL INFO ON PRODUCT .....	18
II) CCS RELATED VARIABLES.....	18
III) EUM RELATED VARIABLES.....	18
IV) FAX RELATED VARIABLES.....	18
V) FTB RELATED VARIABLES.....	18

VI) GEO RELATED VARIABLES.....	18
VII) IAC RELATED VARIABLES.....	18
VIII) IAX RELATED VARIABLES.....	19
IX) OPS RELATED VARIABLES.....	19
X) QIS RELATED VARIABLES.....	19
XI) SSD RELATED VARIABLES.....	19
XII) DPT RELATED VARIABLES.....	19
XIII) MCX RELATED VARIABLES.....	19
F) ORBIT 3236 L1C.....	20
I) GENERAL INFO ON PRODUCT .....	20
II) CCS RELATED VARIABLES.....	20
III) EPS RELATED VARIABLES.....	20
IV) GEO RELATED VARIABLES.....	20
V) IRC RELATED VARIABLES.....	21
VI) QIS RELATED VARIABLES.....	21
G) ORBIT 3237 ENG.....	22
I) GENERAL INFO ON PRODUCT.....	22
II) CCS RELATED VARIABLES.....	22
III) FAX RELATED VARIABLES.....	22
IV) FTB RELATED VARIABLES.....	22
V) GEO RELATED VARIABLES.....	22
VI) IAC RELATED VARIABLES.....	22
VII) IAX RELATED VARIABLES.....	22
VIII) ICC RELATED VARIABLES.....	23
IX) OPS RELATED VARIABLES.....	23
X) QIS RELATED VARIABLES.....	23
XI) SSD RELATED VARIABLES.....	23
XII) DPT RELATED VARIABLES.....	23
XIII) MCX RELATED VARIABLES.....	23
H) ORBIT 3237 L1C.....	24
I) GENERAL INFO ON PRODUCT.....	24
II) CCS RELATED VARIABLES.....	24
III) EPS RELATED VARIABLES.....	24
IV) GEO RELATED VARIABLES.....	24
V) ISF RELATED VARIABLES.....	24
VI) QIS RELATED VARIABLES.....	25
3) IASI L1/PPF PROCESSING TIME.....	26
4) CONCLUSION.....	27



CENTRE NATIONAL D'ÉTUDES SPATIALES

## Journal d'essai IASI L1/PPF V6-0

Référence : IA-MM-2100-3488-CNE

Page 4 sur 27

### 1) Validation of IASI L1/PPF under AIX6-1

**a) Orbit 3638**

Non regression on both L1 ENG and L1 1C => OK

**b) Orbit 3704**

Non regression on both L1 ENG and L1 1C => OK

**c) Orbit 3236**

Non regression on both L1 ENG and L1 1C => OK

**d) Orbit 3237**

Non regression on both L1 ENG and L1 1C => OK

## 2) Validation of IASI L1/PPF under Linux

### a) Orbit 3638 ENG

I)

GENERAL INFO ON PRODUCT

GEPsDatIasi.ms : diff = +/-1

SEMI\_MAJOR\_AXIS : relative diff = 734407.0 / 7204509230.0, cf. section dedicated to geolocalization

grh\_rec\_start\_time.ms : diff = +/-1

grh\_rec\_stop\_time.ms : diff = +/-1

=> OK rounding+geoloc

II)

FTB RELATED VARIABLES

GftbBBTRes : mean\_Diff = 6.06465129973e-10

GftbFilteredBBT : mean\_Diff = -3.91194720946e-11

=> OK rounding

III)

IAC RELATED VARIABLES

GiacAvgImagIIS : mean\_Diff = -4.63206555789e-15

GiacVarImagIIS : mean\_Diff = -8.45058044198e-17

=> OK rounding

IV)

IAX RELATED VARIABLES

GlaxAxeZ : mean\_Diff = 8.67361737988e-19

=> OK rounding

V)

ICC RELATED VARIABLES

GiccRadCalSlopeImag : mean\_Diff = 0.424, diff= +/-1, relative diff=1e-9

=> OK rounding

VI)

OPS RELATED VARIABLES

GOPSDatRadAvhrrMiss.ms : diff= +/-1

=> OK rounding

VII)

QIS RELATED VARIABLES

GqisQualIndex : mean\_Diff= -1.40171323437e-12

GqisQualIndexIIS : mean\_Diff = 4.88950546718e-14

GqisQualIndexRad : mean\_Diff = -8.6655127518e-16

=> OK rounding

VIII)

DPT RELATED VARIABLES

MdptVarImagMax : mean\_Diff = -3.00235596697e-14

MdptVarImagMean : mean\_Diff = -1.69871614151e-14

=> OK rounding



CENTRE NATIONAL D'ÉTUDES SPATIALES

## Journal d'essai IASI L1/PPF V6-0

Référence : IA-MM-2100-3488-CNE

Page 6 sur 27

IX)

MCX RELATED VARIABLES

MmcxBiasCalRad : mean\_Diff = -1.16253744931e-13

MmcxCoeffCalRad : mean\_Diff = -1.3382840781e-18

MmcxNoiseCalRad : mean\_Diff = 3.49393945245e-16

=> OK rounding



CENTRE NATIONAL D'ÉTUDES SPATIALES

## Journal d'essai IASI L1/PPF V6-0

Référence : IA-MM-2100-3488-CNE

Page 7 sur 27

### b) Orbit 3638 L1C

I)

#### GENERAL INFO ON PRODUCT

GEPSDatIasi.ms : diff= +/-1

grh\_rec\_start\_time.ms : +/-1

grh\_rec\_stop\_time.ms : +/-1

SEMI\_MAJOR\_AXIS : relative diff = 734407.0 / 7204509230.0, cf. section dedicated to geolocalization

=>OK

II)

#### IRC RELATED VARIABLE

GircImage : +/-1 (2e-5% pixels are different)

=>OK

**c) Orbit 3704 ENG**

Orbit in Normal Operation Mode

I)

**GENERAL INFO ON PRODUCT**

DURATION\_OF\_PRODUCT : diff=-1  
 SEMI\_MAJOR\_AXIS, nb diff=1, relative diff=809824 / 7204587054  
 GEPSDatIasi.ms, nb diff=196  
 MILLISECONDS\_OF\_DATA\_PRESENT, nb diff=  
 grh\_rec\_start\_time.ms, nb diff=4, +/-1  
 grh\_rec\_stop\_time.ms, nb diff=2, +/-1

II)

**CCS RELATED VARIABLES**

GCcsAvhrrPseudoChn : nb diff=157930, mean diff= -3.81740392186e-10, OK  
 GCcsNonClassifRate : nb diff=34, min diff= -0.00074, max diff= 0.0044, OK  
 GCcsOffsetSondAvhrr : nb diff=177120, min diff=-0.0009, max diff=0.0005, OK  
 GCcsRadAnalNbClass : nb diff=75 (0.08%), min diff= -2, max diff=1, OK  
 GccsVarianceRate : nb diff=11291, mean diff=-1.05482242875e-05, OK  
 =>OK,

III)

**EUM RELATED VARIABLES**

GEUMAvhrr1BCldFrac : nb\_diff=210, mean diff=+/-1  
 GEUMAvhrr1BLandFrac : nb\_diff=22, mean diff=+/-1  
 GEUMAvhrr1BQual : nb\_diff=4, mean diff=+/-1  
 => OK rounding

IV)

**FAX RELATED VARIABLES**

GFaxAxeRes : nb\_diff=1484(all), mean diff=3.05235270679e-14  
 GFaxAxeY : nb\_diff=,1484 mean diff=-5.29857552899e-13  
 GFaxAxeZ : nb\_diff=1484, mean diff=7.73951989461e-13  
 => OK rounding

V)

**FTB RELATED VARIABLES**

GFtbBBTRes : nb\_diff=742 (all), mean diff=-7.10166490435e-10  
 GFtbFilteredBBT : nb\_diff=742 (all), mean diff= -1.31783805791e-10 (~293K mean value)  
 => OK rounding

VI)

**GEO RELATED VARIABLES**

GGeoSubSatellitePosition : see section dedicated to geolocalization  
 =>OK



## VII)

## IAC RELATED VARIABLES

GlacAvgImagIIS : nb\_diff=22260, mean diff=-4.02425432116e-15  
 GlacVarImagIIS : nb\_diff=22256, mean diff=-2.91186097688e-16  
 GlacCorrelQual : nb\_diff=22072, mean diff=-0.0010898962348, min data under IBM and Linux =-10, 1 in each OS, dummy value when max of correlation is on the border of image or error flag is raised  
 GlacFlagCoregNonQual: nb\_diff=5  
 GlacFlagCoregNonValid: nb\_diff=2  
 GlacOffsetIISAvhrr: nb\_diff=34556, mean diff=-6.57473692753e-05  
 GlacPosMaxQual: nb\_diff=22072, mean diff=5.50404727057e-05  
 => relative differences ~10-3=>10-10 , OK rounding  
 => OK

## VIII)

## IAX RELATED VARIABLES

GlaxAxeQual: nb\_diff=1476, mean diff=-6.39245771427e-20  
 GlaxAxeRes: nb\_diff=1477, mean diff=9.50003418985e-15  
 GlaxAxeY: nb\_diff=1480, mean diff=1.26482816774e-15  
 GlaxAxeZ: nb\_diff=1483, mean diff=6.7811911051e-16  
 => relative difference ~ 10-12, OK roundings

## IX)

## ICC RELATED VARIABLES

GlccRadCalSlopelmag: nb\_diff=31237, mean diff=-0.3442  
 => relative difference ~ 10-9, OK roundings

## X)

## QIS RELATED VARIABLES

GQisQualIndex: nb\_diff=86840, mean diff=1.07423181461e-14  
 GQisQualIndexIIS: nb\_diff=22230, mean diff=4.38189484697e-14  
 GQisQualIndexLoc: nb\_diff=69112, mean diff=2.37331430454e-05  
 GQisQualIndexRad: nb\_diff=11699, mean diff=-9.09206043786e-16  
 GQisQualIndexSpect: nb\_diff=86520, mean diff=1.11519682378e-14  
 =>No general quality (GqisFlagQual) difference, only indexes impact by relative differences of ~10-14 : OK roundings

## XI)

## SSD RELATED VARIABLES

GSsdWnShift: nb\_diff=22193, mean diff=-6.78760869733e-13  
 GSsdWnShiftQual: nb\_diff=35593, mean diff=1.67110769667e-16  
 GSssWnShiftMean: nb\_diff=5651, mean diff=-1.9207663832e-14  
 GSssWnShiftMeanQual: nb\_diff=2730, mean diff=-1.97705100155e-16

## XII)

## DPT RELATED VARIABLES

MDptVarImagMax: nb\_diff=742, mean diff=-1.46350862774e-13, max variance  
 MDptVarImagMean: nb\_diff=742, mean diff=-4.04109210904e-14  
 =>OK roundings



CENTRE NATIONAL D'ÉTUDES SPATIALES

## Journal d'essai IASI L1/PPF V6-0

Référence : IA-MM-2100-3488-CNE

Page 10 sur 27

XIII)

MCX RELATED VARIABLES

MMcxBiasCalRad: nb\_diff=15622, mean diff=-3.61277435836e-14

MMcxCoeffCalRad: nb\_diff=265800, mean diff= -1.49204640312e-18

MMcxNoiseCalRad: nb\_diff=508, mean diff=-6.75670555289e-17

=>OK roundings, MCX is just monitoring

## d) Orbit 3704 L1C

## I)

## GENERAL INFO ON PRODUCT

DURATION\_OF\_PRODUCT : 5936087 => 5936088  
grh\_rec\_start\_time.ms : 4 diffs +/-1 due to rounding  
grh\_rec\_stop\_time.ms : 2 diffs +/-1 due to rounding  
MILLISECONDS\_OF\_DATA\_PRESENT : diff = -1 rounding  
SEMI\_MAJOR\_AXIS : 7204587054=>7203777230, diff=809824, cf.  
geolocalization analysis  
OK rounding + navigation

## II)

## CCS RELATED VARIABLES

GccsImageClassified : nb diff=98742 (0.04%), OK  
GccsImageClassifiedFirstCol : nb diff = 37, OK  
GccsImageClassifiedFirstLin : nb diff = 122 (0.5%), max value of 167 occuring twice has to be investigated  
GccsImageClassifiedNbCol : nb diff = 64, diff=+/-1, OK  
GccsImageClassifiedNbLin : nb diff = 8, diff = +/-1, OK  
GccsRadAnalMean : nb diff=1179311, mean diff=-1.91319979224e-05, OK  
GccsRadAnalNbClass : nb diff=75, mean diff=-0.02666666666667, OK  
GccsRadAnalStd : nb diff = 1238941, mean diff=2.84668633001e-06  
GccsRadAnalType : nb diff=67, diff : 0=>1 ou 1=>0, OK  
GccsRadAnalWgt : nb diff=337166, mean diff=6.30074458098e-09, OK  
GccsRadAnalY : 335909, mean diff = 111.1378, related to FA-2890  
GccsRadAnalZ : 348147, mean diff = -19.5265, related to FA-2890  
=> OK, investigations to be done on FA-2890, and difference max value in GccsImageClassifiedFirstLin

## III)

## EPS RELATED VARIABLES

GEPsDatIasi.ms : nb diff=196, mean diff = -0.0714285714286  
GEPsLocIasiAvhrr\_iasi : nb diff = 91445, mean diff = -0.01146197866, min diff= - 3 AVHRR pixels, which sounds too big (3000km!!), probably related to FA-2890  
GEPsLocIasiAvhrr\_IIS : nb diff = 565887, mean diff =- 0.07714609606, probably related to FA-2890

## IV)

## GEO RELATED VARIABLES

GgeoIISAnglesMETOP : nb diff = 1091889  
GgeoIISAnglesSUN : nb diff = 1037980  
GgeoIISLoc : nb diff = 1025123  
GgeoSondAnglesMETOP : nb diff = 175025  
GgeoSondAnglesSUN : nb diff = 167455  
GgeoSondLoc : nb diff = 165220  
For a precise quantification of geolocalization differences, see dedicated section hereafter.

V)

IRC RELATED VARIABLES

GircImage : nb diff = 15, diff ==/-1  
=>OK

VI)

QIS RELATED VARIABLES

GqisQualIndexLoc : nb diff = 738, relative difference ~ 1e-3  
=> OK, related to navigation differences

VII)

DIFFERENCES

GEOLOCALIZATION

IDL scripts under /raid2/iasi/v1/users/vlonjou/IDL/iasIDLlib

- extract\_ggeosondloc\_l1c.pro
- compare\_geoloc\_l1c.pro

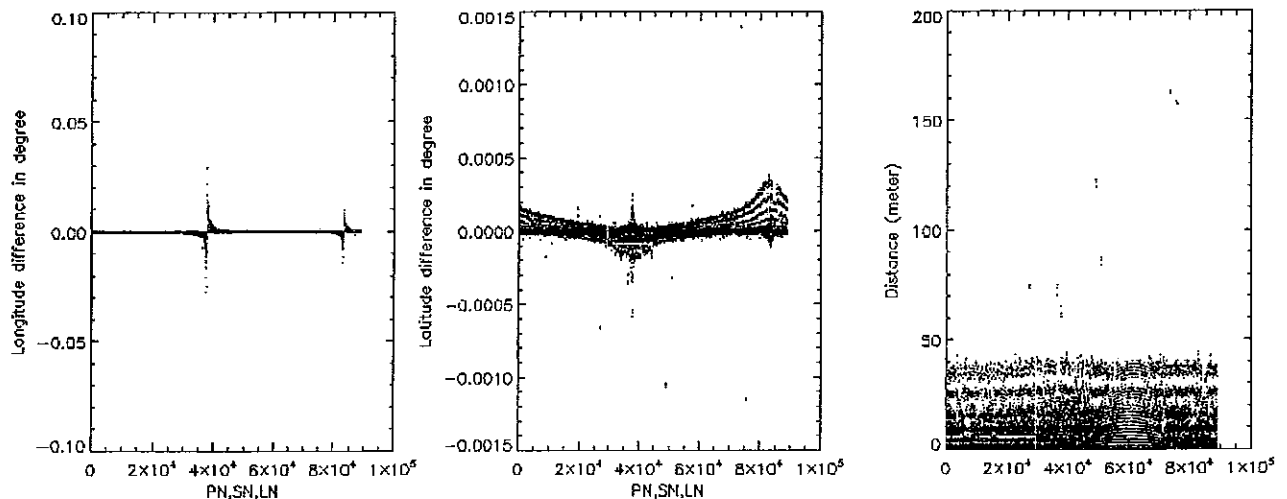
IDL extract

- /raid7/ops/ops2tec/sortie/validation\_V6-0/GGeoSondLoc\_o3704\_V5-1\_pge-ibm.idl
- /raid7/ops/ops2tec/sortie/validation\_V6-0/GGeoSondLoc\_o3704\_V6-0\_pge-ibm.idl
- /raid7/ops/ops2tec/sortie/validation\_V6-0/GGeoSondLoc\_o3704\_V6-0\_pge-linux.idl

Min observed difference = 0.0000000 m

Mean observed difference = 5.7923708 m

Max observed difference = 163.37621 m



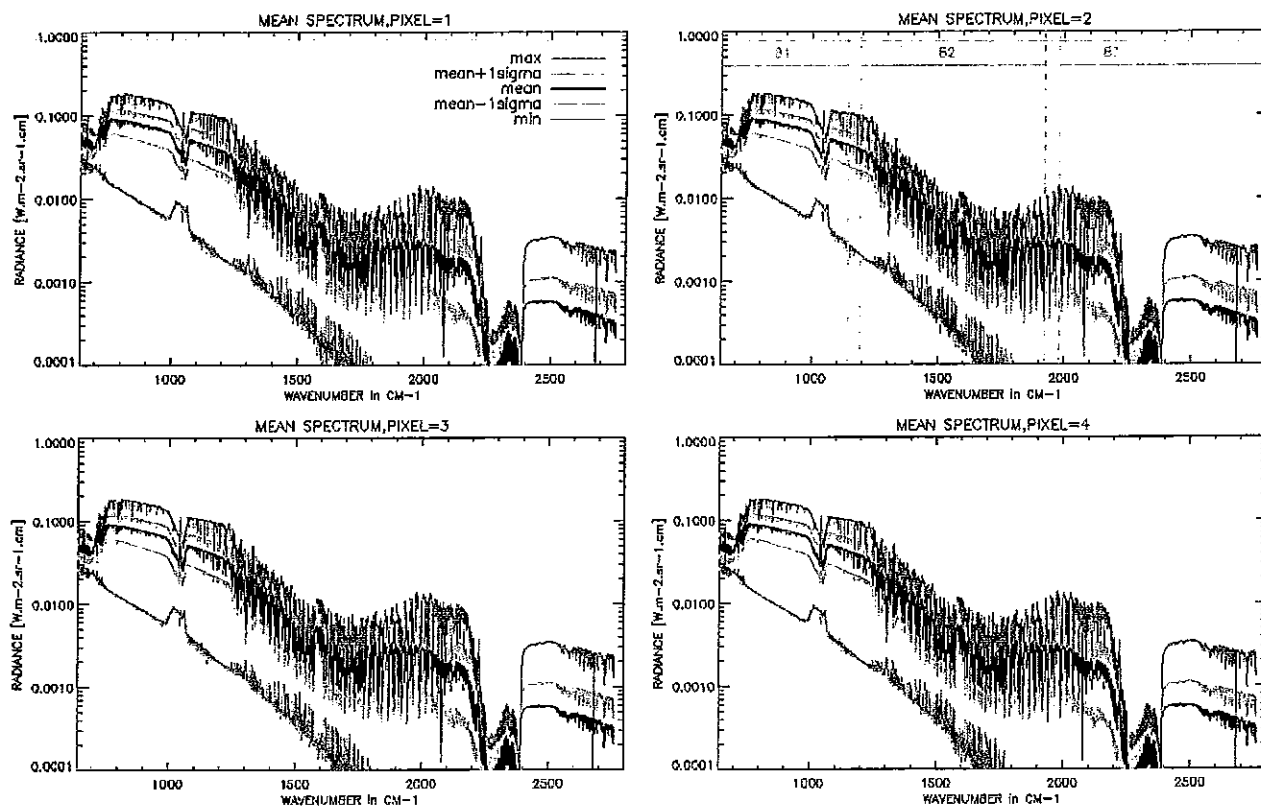
## VIII)

## SPECTRA DIFFERENCES

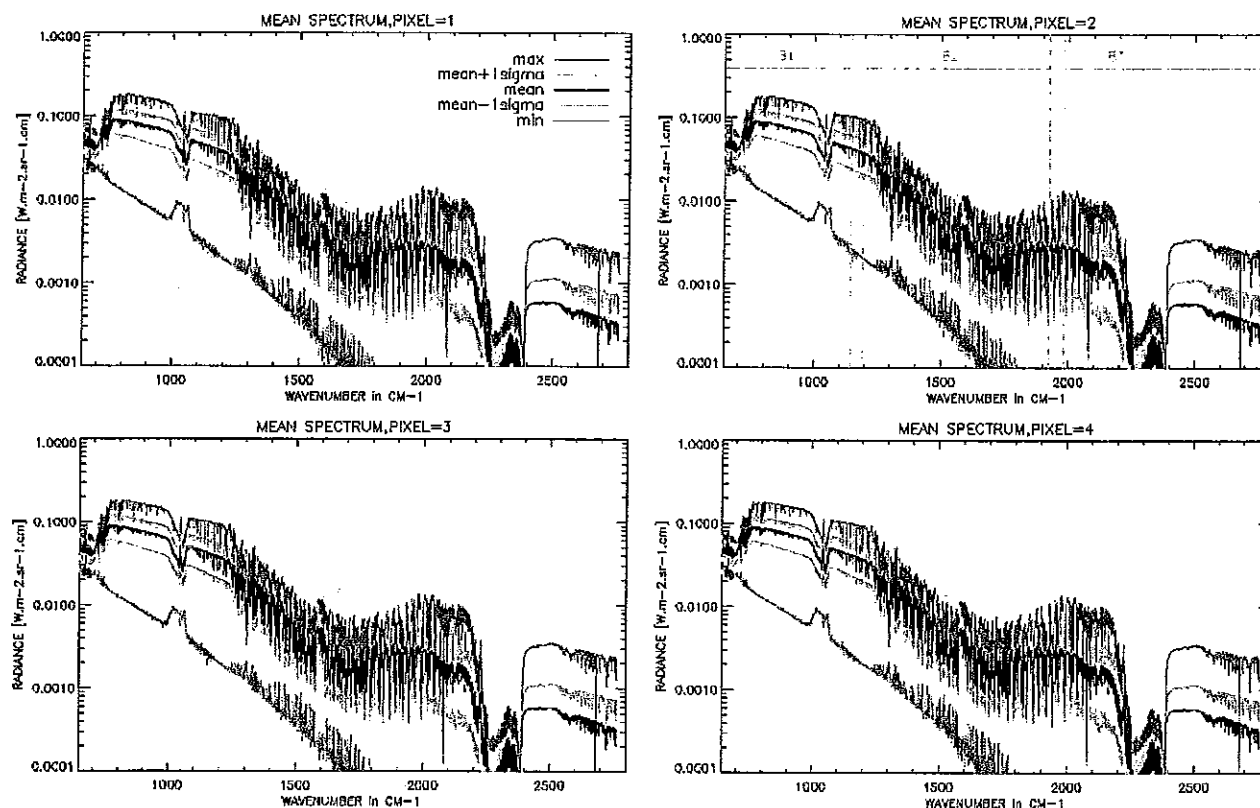
IDL scripts under /raid2/iasi/v1/users/vlonjou/IDL/iasIDLlib

- `interpixel_s1c.pro`
- `compare_mean_spectra.pro`

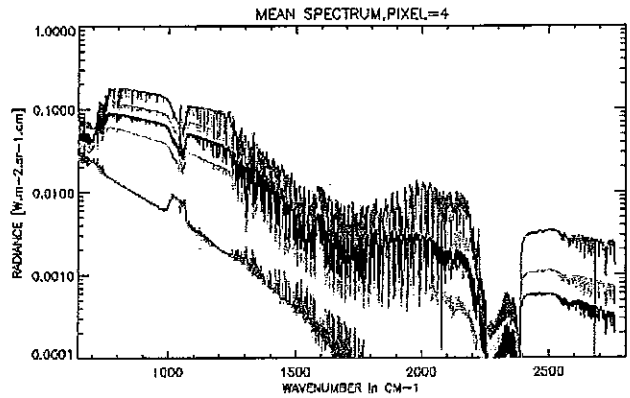
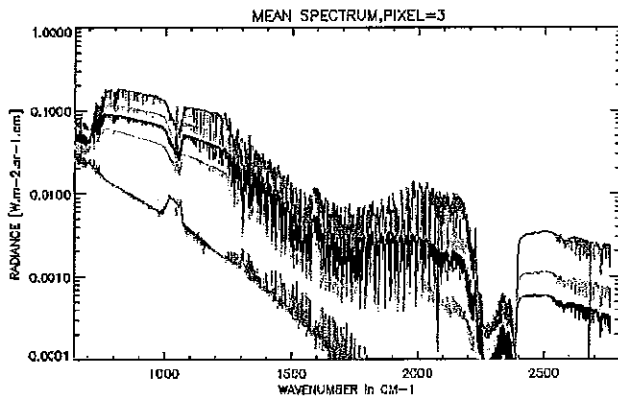
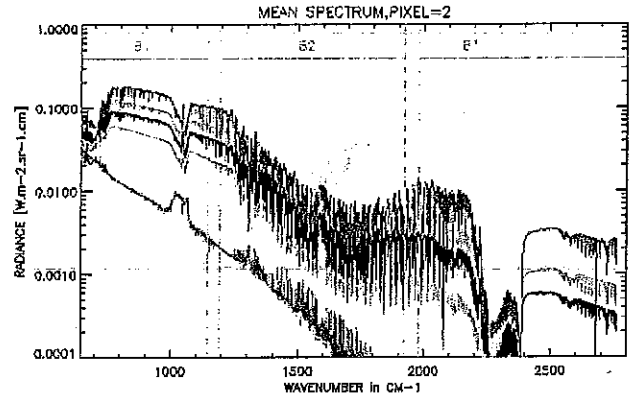
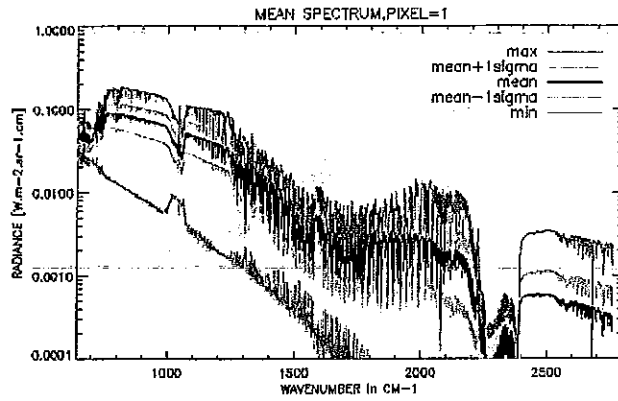
Caracteristic spectra for IASI L1/PPF V5-1 on pge-ibm



# Caracteristic spectra for IASI L1/PPF V6-0 on pge-ibm

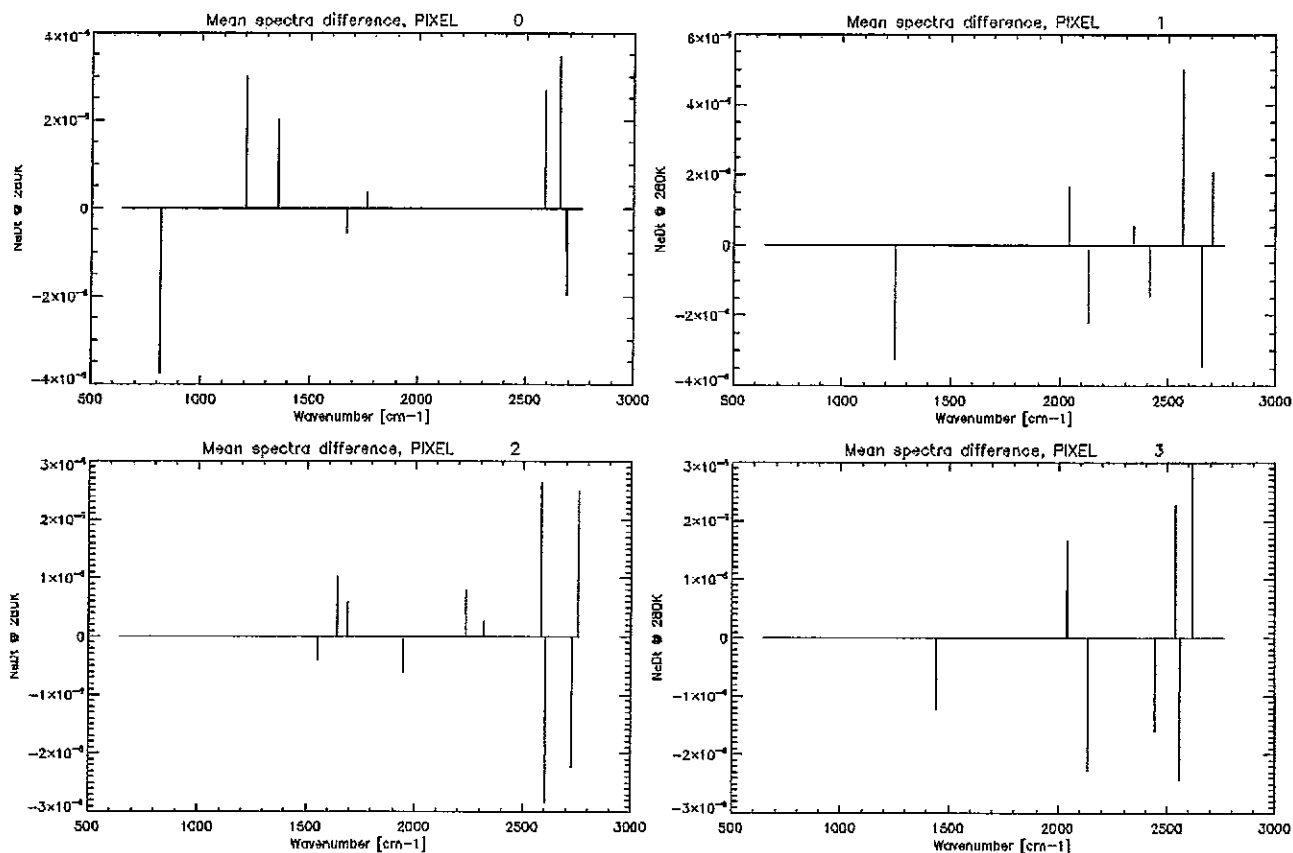


Caracteristic spectra for IASI L1/PPF V6-0 on pge-linux





Mean spectra differences IASI L1/PPF V6-0 pge-ibm vs. V6-0 pge-linux



=> No bias, no nul spectra, only a few channel over 8461 are different

=> OK

e) Orbit 3236 ENG

I)

GENERAL INFO ON PRODUCT

DURATION\_OF\_PRODUCT  
 GEPSDatIasi.ms  
 grh\_rec\_start\_time.ms  
 grh\_rec\_stop\_time.ms  
 MILLISECONDS\_OF\_DATA\_PRESENT  
 SEMI\_MAJOR\_AXIS

II)

CCS RELATED VARIABLES

GCcsAvhrrPseudoChn  
 GCcsNonClassifRate  
 GCcsOffsetSondAvhrr  
 GCcsRadAnalNbClass  
 GCcsVarianceRate

III)

EUM RELATED VARIABLES

GEUMAvhrr1BCIdFrac  
 GEUMAvhrr1BLandFrac  
 GEUMAvhrr1BQual

IV)

FAX RELATED VARIABLES

GFaxAxeRes  
 GFaxAxeY  
 GFaxAxeZ

V)

FTB RELATED VARIABLES

GFtbBBTRes  
 GFtbFilteredBBT

VI)

GEO RELATED VARIABLES

GGeoSubSatellitePosition

VII)

IAC RELATED VARIABLES

GlacAvgImagIIS

GlacVarImagIIS  
 GlacCorrelQual  
 GlacOffsetIISAvhrr  
 GlacPosMaxQual

## VIII)

## IAX RELATED VARIABLES

GlaxAxeQual  
 GlaxAxeRes  
 GlaxAxeY  
 GlaxAxeZ  
 GlccRadCalSlopelmag

## IX)

## OPS RELATED VARIABLES

GOPSDatIsrfemOff.ms  
 GOPSDatRadAvhrrMiss.ms

## X)

## QIS RELATED VARIABLES

GQisQualIndex  
 GQisQualIndexIIS  
 GQisQualIndexLoc  
 GQisQualIndexRad  
 GQisQualIndexSpect

## XI)

## SSD RELATED VARIABLES

GSsdWnShift  
 GSsdWnShiftQual  
 GSssWnShiftMean  
 GSssWnShiftMeanQual

## XII)

## DPT RELATED VARIABLES

MDptVarImagMax  
 MDptVarImagMean

## XIII)

## MCX RELATED VARIABLES

MMcxBiasCalRad  
 MMcxCoeffCalRad  
 MMcxNoiseCalRad

f) Orbit 3236 L1C

I)

GENERAL INFO ON PRODUCT

DURATION\_OF\_PRODUCT  
grh\_rec\_start\_time.ms  
grh\_rec\_stop\_time.ms  
MILLISECONDS\_OF\_DATA\_PRESENT  
SEMI\_MAJOR\_AXIS

II)

CCS RELATED VARIABLES

GCcsImageClassified  
GCcsImageClassifiedFirstCol  
GCcsImageClassifiedFirstLin  
GCcsImageClassifiedNbCol  
GCcsImageClassifiedNbLin  
GCcsRadAnalMean  
GCcsRadAnalNbClass  
GCcsRadAnalStd  
GCcsRadAnalType  
GCcsRadAnalWgt  
GCcsRadAnalY  
GCcsRadAnalZ

III)

EPS RELATED VARIABLES

GEPSDatIasi.ms  
GEPSLocIasiAvhrr\_ias  
GEPSLocIasiAvhrr\_IIS

IV)

GEO RELATED VARIABLES

GGeolISAnglesMETOP  
GGeolISAnglesSUN  
GGeolISLoc  
GGeoSondAnglesMETOP  
GGeoSondAnglesSUN  
GGeoSondLoc

V)

IRC RELATED VARIABLES

Glrclmage

VI)

QIS RELATED VARIABLES

GqisQualIndexLoc

=> OK

**g) Orbit 3237 ENG**

I)

GENERAL INFO ON PRODUCT

GEPSDatIasi.ms  
grh\_rec\_start\_time.ms  
grh\_rec\_stop\_time.ms  
SEMI\_MAJOR\_AXIS

II)

CCS RELATED VARIABLES

GCcsAvhrrPseudoChn  
GCcsOffsetSondAvhrr  
GCcsRadAnalNbClass  
GccsVarianceRate

III)

FAX RELATED VARIABLES

GFaxAxeRes  
GFaxAxeY  
GFaxAxeZ

IV)

FTB RELATED VARIABLES

GFtbBBTRes  
GFtbFilteredBBT

V)

GEO RELATED VARIABLES

GGeoSubSatellitePosition

VI)

IAC RELATED VARIABLES

GIacAvgImagIIS  
GIacVarImagIIS  
GIacCorrelQual  
GIacOffsetIISAvhrr  
GIacPosMaxQual

VII)

IAX RELATED VARIABLES

GIaxAxeQual  
GIaxAxeRes

GlaxAxeY  
GlaxAxeZ

VIII)

GlccRadCalSlopeImag

ICC RELATED VARIABLES

IX)

GOPSDatRadAvhrrMiss.ms

OPS RELATED VARIABLES

X)

GQisQualIndex  
GQisQualIndexIIS  
GQisQualIndexLoc  
GQisQualIndexRad  
GQisQualIndexSpect

QIS RELATED VARIABLES

XI)

GSsdWnShift  
GSssWnShiftMean

SSD RELATED VARIABLES

XII)

MDptVarImagMax  
MDptVarImagMean

DPT RELATED VARIABLES

XIII)

MMcxBiasCalRad  
MMcxCoeffCalRad  
MMcxNoiseCalRad

MCX RELATED VARIABLES

=> OK, results of the same order than for orbit 3704



CENTRE NATIONAL D'ÉTUDES SPATIALES

## Journal d'essai IASI L1/PPF V6-0

Référence : IA-MM-2100-3488-CNE

Page 24 sur 27

### h) Orbit 3237 L1C

I)

#### GENERAL INFO ON PRODUCT

grh\_rec\_start\_time.ms  
grh\_rec\_stop\_time.ms  
SEMI\_MAJOR\_AXIS

II)

#### CCS RELATED VARIABLES

GCcsImageClassified  
GCcsImageClassifiedFirstCol  
GCcsImageClassifiedNbCol  
GCcsRadAnalMean, strange minimum value under IBM=0, 5 consecutive differences, to be investigated  
GCcsRadAnalNbClass  
GCcsRadAnalStd  
GCcsRadAnalType  
GCcsRadAnalWgt  
GCcsRadAnalY  
GCcsRadAnalZ

III)

#### EPS RELATED VARIABLES

GEPSDatIasi.ms  
GEPSLocIasiAvhrr\_Iasi  
GEPSLocIasiAvhrr\_IIS

IV)

#### GEO RELATED VARIABLES

GGeoIISAnglesMETOP  
GGeoIISAnglesSUN  
GGeoIISLoc  
GGeoSondAnglesMETOP  
GGeoSondAnglesSUN  
GGeoSondLoc

V)

#### ISF RELATED VARIABLES

GIsfPds2





CENTRE NATIONAL D'ÉTUDES SPATIALES

## Journal d'essai IASI L1/PPF V6-0

Référence : IA-MM-2100-3488-CNE

Page 25 sur 27

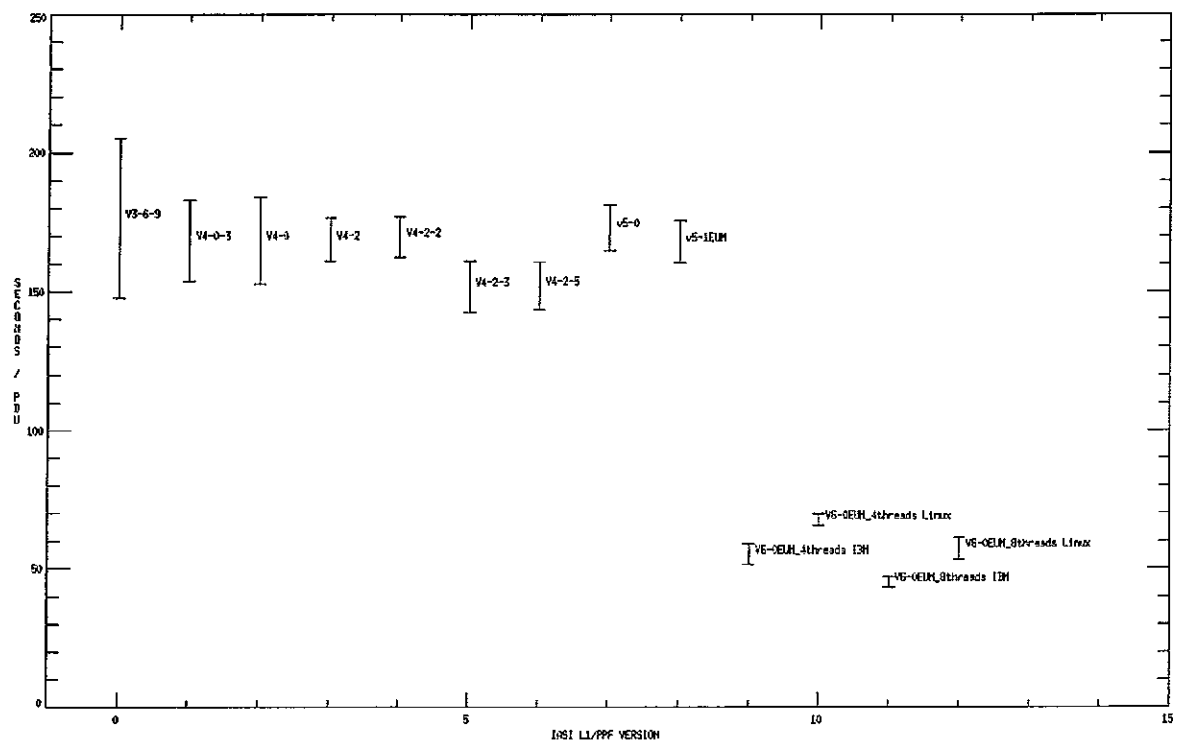
VI)

QIS RELATED VARIABLES

GqisQualIndexLoc

OK, except investigations to be performed on null minimum values for GccsRadAnalMean, to be correlated with GccsRadAnalWgt.

### 3) IASI L1/PPF processing time



#### **4) Conclusion**

Test is OK

Actions

o3704 L1C

- investigations to be done on FA-2890 (GccsRadAnalY, GccsRadAnalZ),
- difference max value in GccsImageClassifiedFirstLin (max value of 167 occuring twice).
- Investigate on differences on GEPSLoclasiAvhrr\_Iasi and GEPSLoclasiAvhrr\_IIS, check consistency of negative values.

o3237 L1C

- Investigations to be performed on null minimum values under IBM and Linux for GccsRadAnalMean, to be correlated with GccsRadAnalWgt.