

1.Scope of this document

On May 30, 2013, data from the Landsat 8 satellite (launched as the Landsat Data Continuity Mission on February 11, 2013) became available. ESA distributes Landsat 8 products as a near real time service (<u>https://landsat8portal.eo.esa.int/portal/</u>).

The scope of this document is the Level 1 product accuracy performance of products processed by ESA. The radiometric calibration stability, the geolocation accuracy and the interband registration accuracy is monitored on a monthly basis. Comparison with results from the USGS cal/val is done.

Hence the document is organized as follow

\$1) Scope of this document	To introduce this document
\$2) Change record	To log version of cycle reporting and input TDS considered for the month
\$3)Executive Summary:	To provide a quick overview on the main findings of the month and to provide updated accuracy statistics.
\$4) QC Issue	This part is dedicated to the tracking of operational issue found during exercise
\$5) Radiometric accuracy stability monitoring	This part provides statistics and figures (trends) regarding the multi temporal stability of radiometric calibration of visible/NIR/SWIR data.
\$6) Geolocation accuracy stability monitoring	This part provides statistics and figures on multi temporal stability of geolocation accuracy. The panchromatic image is analyzed.
\$7) Interband registration	This part provides statistics and figures on geometric registration of OLI & TIRS images observed in a same date.
\$8)Test site description	This part provides very brief description of test sites that are considered for our analysis.
Note that:	

An insight on methods is given in "IDEAS-TN-02-L8_DataValidation.docx";

The test data set is detailed in "TDS_L8_cyclic.xlsx", this file is regularly updated.

2.Change record

Iss.	Rev.	Date	Reason	Comments
1	0	08/04/2015	Document creation	
1	1	26/05/2015	May 2015 cyclic report	
1	2	06/07/2015	June 2015 cyclic report	
1	3	29/07/2015	July 2015 cyclic report	
1	4	28/08/2015	August 2015 cyclic report	
1	5	28/09/2015	September 2015 cyclic report	
1	6	26/10/2015	October 2015 cyclic report	
1	7	25/11/2015	November 2015 cyclic report	
1	8	04/01/2016	December 2015 quality report	
1	9	27/01/2016	January 2016 quality report	
1	10	29/02/2016	February 2016 quality report	

3.Executive summary

Landsat 8 data validation purpose is to assess the continuity of data accuracy of Landsat Project.

Validation Item	Comment
Radiometric accuracy stability monitoring	Temporal stability is correct (TOA reflectance standard deviation under 0.7 for blue, green, red and NIR bands and under 1.6 for SWIR1 and SWIR2 bands). Ratio between RTOA of ESA products and USGS products is 1.
Geolocation accuracy stability monitoring (Relative location)	Relative location results show a correct matching between Landsat 8 products (RMS values under 5m in both directions) No bias and no trend No site influence Temporal stability is correct (standard deviation errors under 5m in both direction)
Interband Registration	A strong influence of site is observed especially for TIRS band.

4. Radiometric accuracy stability monitoring

4.1.0bjective

The objective is to assess radiometric stability of Landsat 8 data.

4.2.Methods

The method consists in monitoring the Top of Atmosphere (TOA) reflectance acquired on a bright site referred by "Libya4", known as spatially uniform (as seen with L8/OLI spatial resolution) and spectrally stable in time.

For input images, a region of interest corresponding to an area of one square degree is extracted and statistics computed. The Libyan site "Libya4" is located at latitude 28.55N, longitude 23.39E, at altitude 118m.

It is expected that the temporal evolution of TOA measurements over mission lifetime is stable.

4.3.Results and Discussions

The statistics listed in table below are computed based on dataset of 27 L1T products (from 29/01/2014 to 20/02/2016). The S/W version is not same in all cases, since archive is not reprocessed. L1Gt products are not taken into account in these statistics:

Bands	Mean TOA reflectance (27 L1T products)	Std TOA reflectance (%)	Uncertainty (Std divided by mean)
Blue	0,246	0,0025	1,02%
Green	0,333	0,0019	0,57%
Red	0,452	0,0051	1,13%
NIR	0,574	0,0069	1,2%
SWIR1	0,668	0,0141	2,11%
SWIR2	0,588	0,0160	2,72%

 Table 1 - Landsat 8 / OLI - Statistics on Temporal stability

 of radiometric calibration.

The temporal uncertainty (standard deviation divided by the mean) of OLI is better than 2% for all bands expect SWIR bands. It is under 3% for SWIR bands affected by atmospherically effects.

As shown in the figure below, the dispersion of TOA measurements around each center wavelength value remains quite small, except for SWIR channels, influenced by water vapor content. The spectral behavior remains correct.



Figure 1-- Up) Reflectance profile as indicator of uncertainty Bottom) Configuration of observations.

The six figures below show temporal trending of Landsat 8 OLI measured TOA reflectance over Libya 4 PICS for the 6 bands since its launch. Circles correspond to reflectance values of USGS products. Linear regressions, indicated by the red lines were performed and indicate a good stability sensor.



Figure 2-- Temporal Trends of L8 OLI TOA Reflectances.

Further investigations on the stability of OLI measured via PICS and other techniques can be found in a Remote Sensing paper¹. The intercept value is used as a mean TOA reflectance value for comparison against USGS products and ESA products.

Bands	L8 OLI ESA products– Intercept Value	L8 OLI USGS products- Intercept Value
Blue	0,249	0,249
Green	0,339	0,340
Red	0,462	0,466
NIR	0,584	0,589
SWIR1	0,677	0,683
SWIR2	0,611	0,612

Table 2 – Comparison between L8 ESA and L8 USGS OLI TOA reflectance.

A radiometric comparison has been made between Landsat 8 ESA products and Landsat 8 USGS products.



Figure 3—Temporal trend of L8 OLI TOA reflectances Comparison of ESA products and USGS products

 ¹ "Radiometric Cross Calibration of Landsat 8 Operational Land Imager (OLI) and Landsat 7 Enhanced Thematic Mapper Plus (ETM+) - Remote Sensing 2014, 6, 12619-12638, ISSN 2072-4292".
 Ref: IDEAS-TN-10-QualityReport Issue/Rev: 1/10
 Date: 28/02/2016 6/16

The figure below shows the temporal evolution of TOA reflectance ratio for blue band. The temporal variability is correct. It is correct for all bands.



Figure 4-- Temporal variability of the ratio RTOA OLI ESA / RTOA OLI USGS (blue band).



Figure 5—Temporal variability of the ratio RTOA OLI ESA / RTOA OLI USGS (green band).

5. Geolocation accuracy stability monitoring

5.1.0bjective

The objective is to assess geometric stability of Landsat 8 data. According to USGS certification document², the standard deviation of the difference in the line and sample components between L1T reference product band and each L1T corresponding product band should be less than 12m.

5.2.Methods

Basically, method is based on the following processing stages:

- ✓ Dense matching processing between reference product and each product;
- ✓ Correlation grid filtering;
- ✓ Accuracy analysis.

The panchromatic image (band 8), included in L1T product, image resampled to pixel size of 15 m, is validated against a geometric reference.

Three ROI distributed over three sites are used:

- ✓ La Crau (reference product : LC81960302013243NSG00)
- ✓ Granada (reference product : LC82000342014146MTI00)
- ✓ Saragossa (reference data : LC82000312014066MTI00)
- √

5.3.Results and Discussions

The overall statistics over 48 L1T products (from 30/07/2013 to 08/01/2016) are the following ones, all data merged together, without taking into account the test site.

² "Landsat Data Continuity Mission (LDCM) International Ground Station (IGS) Data Validation and Exchange (DV&E) and Certification Plan LS-IC-12 Version 2.0".
 Ref: IDEAS-TN-10-QualityReport Issue/Rev: 1/10
 Date: 28/02/2016
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Statistics (48 products)	Value	Comments
Mean Error Easting Direction Mean Error Northing Direction Standard Deviation Error Easting Direction Standard Deviation Error Northing Direction Boot Mean Square Easting Direction	0,15m 0,32m 3,77m 3,8m 3,78m	No bias – No trend No site influence Correct temporal stability Correct correlation points repartition
Root Mean Square Easting Direction Root Mean Square Northing Direction Root Mean Square 2D CE 90	2,81m 5,34m 1,93m	Correct RMS in both directions Correct CE90

Table 3 – Landsat 8 / OLI panchromatic band – Statistics on temporal stabilityof geolocation accuracy.

The four figures below show a very high matching between Landsat 8 products.

In the upper left figure, each point corresponds to one validated product. The black ellipse is 1D sigma error ellipse in normal distribution hypothesis. Global CE 90 is equal to 1.94m, which is very low compared to 15m resolution. No bias and no trend can be noticed. There is no site influence.

The radial error distribution shows that 90% of validated products have a radial error less than 2m. It confirms bias and trend absence.

In the lower left figure, each point corresponds to a correlation point. The black ellipse is still 1D sigma error ellipse in normal distribution hypothesis. Points outside the ellipse correspond to correlation noise. Global CE 90 is equal to 3.16m, which is very low.

The last figure shows a correct stability of geolocation accuracy. However, the stability figure shows that the mean northing error is stronger as usual for the two last products processed by 2.5.1 processor.





Figure 6 — Up Right) Product Circular Error @90 Up Left) Product Radial Error Distribution Bottom Right) Point Circular Error @ 90 Bottom Left) Temporal Trends of easting and northing errors.

The correlation method is applied only on cloud free products (less than 15% of cloud coverage).



Figure 7—Examples of cloud contaminated images (quicklooks).

6.Interband registration accuracy

6.1.0bjective

The objective is to validate band registration accuracy by performing a Band-to-Band (B2B) alignment analysis upon validated products. According to USGS certification document³, the RMSE-line and RMSE-sample error threshold for B2B, averaged for all within-band comparisons is:

- 0,15 pixels (4,5m) for OLI
- 0.18 pixels (18m) for TIRS
- 0.3 pixels (30m) for OLI/TIRS comparisons.

6.2.Methods

The interband registration is assessed by mean of correlation processing between two consecutive bands.

6.3.Results and Discussions



The six figures below show the temporal stability over Granada and Saragossa sites. Influence of site is strong.

 ³ "Landsat Data Continuity Mission (LDCM) International Ground Station (IGS) Data Validation and Exchange (DV&E) and Certification Plan LS-IC-12 Version 2.0".
 Ref: IDEAS-TN-10-QualityReport Issue/Rev: 1/10
 Date: 28/02/2016



7.Test site description

A short description of test site used in the context of this work is given herein.

Site Name	Validation item	Landsat WRS 2
ROI geo center		Path/row
"Libya4"	Radiometric accuracy stability monitoring	191/040
23°23'E/28°33'N	Interband registration accuracy monitoring	101/040
"La Crau"	Geolocation accuracy stability monitoring	196/030
4°51'E/43°12'N		190/030
"Granada"	Geolocation accuracy stability monitoring	200/03/
3°7'W/37°28'N		200/034
"Saragossa"	Geolocation accuracy stability monitoring	200/021
1°49'W/41°45'N	Interband registration accuracy monitoring	200/031
"Egypt1"	Interband registration accuracy monitoring	170/041
26°35'E/27°47N		1/9/041
"Belgium"	Interband registration accuracy monitoring	198/025
4°20'E/50°30'N		190/023

Table 4 – Validation sites



Figure 8 – ROI used for radiometric accuracy stability monitoring and geolocation accuracy stability monitoring

8.Validation data

8.1.Radiometric accuracy stability monitoring (38 products)

From ESA catalog⁴, data is mostly available as Level L1T (precision and terrain corrected) products. It is important to note that sometimes instead of L1T, L1Gt might be proposed. Highlighted products are L1Gt products.

Product ID	Site	Observation	Processor
L C21210402014020N4TI00	Libua	00/01/2014	
	Libya4	29/01/2014	
	Libya4	14/02/2014	
	LIDya4	02/03/2014	
		03/04/2014	LPG5_2.2.1
		19/04/2014	LPGS_2.2.1
		06/06/2014	LPGS_2.2.1
	Libya4	22/06/2014	LPGS_2.2.1
	Libya4	08/07/2014	LPGS_2.3.0
	Libya4	24/07/2014	LPGS_2.3.0
LC81810402014221M1100	Libya4	09/08/2014	LPGS_2.3.0
LC81810402014237MTI00	Libya4	25/08/2014	LPGS_2.3.0
LC81810402014253MTI00	Libya4	10/09/2014	LPGS_2.3.0
LC81810402014269MTI00	Libya4	26/09/2014	LPGS_2.3.0
LC81810402014301MTI00	Libya4	28/10/2014	LPGS_2.3.0
LC81810402014317MTI00	Libya4	13/11/2014	LPGS_2.3.0
LC81810402014333MTI00	Libya4	<mark>29/11/2014</mark>	LPGS_2.3.0
LC81810402014365MTI00	Libya4	<mark>31/12/2014</mark>	LPGS_2.3.0
LC81810402015032MTI00	Libya4	<mark>01/02/2015</mark>	LPGS_2.3.0
LC81810402015048MTI00	Libya4	<mark>17/02/2015</mark>	LPGS_2.3.0
LC81810402015064MTI00	Libya4	05/03/2015	LPGS_2.4.0
LC81810402015080MTI00	Libya4	21/03/2015	LPGS_2.4.0
LC81810402015096MTI00	Libya4	06/04/2015	LPGS_2.4.0
LC81810402015112MTI00	Libya4	22/04/2015	LPGS_2.4.0
LC81810402015128MTI00	Libya4	08/05/2015	LPGS_2.4.0
LC81810402015144MTI00	Libya4	24/05/2015	LPGS_2.4.0
LC81810402015160MTI00	Libya4	09/06/2015	LPGS_2.4.0
LC81810402015176MTI00	Libya4	25/06/2015	LPGS_2.4.0
LC81810402015192MTI00	Libya4	11/07/2015	LPGS_2.4.0
LC81810402015208MTI00	Libya4	27/07/2015	LPGS_2.4.0
LO81810402015224MTI00	Libya4	12/08/2015	LPGS_2.4.0
LC81810402015240MTI00	Libya4	28/08/2015	LPGS_2.4.0
LC81810402015256MTI00	Libya4	13/09/2015	LPGS_2.4.0
LC81810402015288MTI00	Libya4	15/10/2015	LPGS_2.4.0
LC81810402015304MTI00	Libya4	31/10/2015	LPGS_2.5.1
LC81810402015320MTI00	Libya4	16/11/2015	LPGS_2.5.1
LC81810402015336MTI00	Libya4	02/12/2015	LPGS_2.5.1
LC81810402016003MTI00	Libya4	03/01/2016	LPGS_2.5.1
LC81810402016035MTI00	Libya4	04/02/2016	LPGS_2.5.1
LC81810402016051MTI00	Libya4	20/02/2016	LPGS_2.5.1

⁴ <u>https://landsat8portal.eo.esa.int/portal/</u>

8.2.Geolocation accuracy stability monitoring (48 products)

date date LC81960302013211NSG00 La Crau 30/07/2013 LPGS_2.2.1 LC81960302014086MT100 La Crau 27/03/2014 LPGS_2.2.1 LC8196030201426MT100 La Crau 03/09/2014 LPGS_2.3.0 LC8196030201539MT100 La Crau 03/03/2015 LPGS_2.4.0 LC81960302015137MT100 La Crau 02/06/2015 LPGS_2.4.0 LC81960302015133MT100 La Crau 02/06/2015 LPGS_2.4.0 LC81960302015133MT100 La Crau 02/06/2015 LPGS_2.4.0 LC81960302015201MT100 La Crau 02/07/2015 LPGS_2.4.0 LC81960302015217MT100 La Crau 05/08/2015 LPGS_2.4.0 LC81960302015217MT100 La Crau 06/09/2015 LPGS_2.4.0 LC81960302015249MT100 Saragossa1 28/04/2014 LPGS_2.4.0 LC8200031201416MT100 Saragossa1 27/06/2014 LPGS_2.4.0 LC82000312014226MT100 Saragossa1 13/08/2014 LPGS_2.3.0 LC82000312014226MT100 Saragossa1 13/08/2014 LPGS_2.4.0 LC820	Product ID	Site	Observation	Processor
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LC81960302015169MT100 La Crau 18/06/2015 LPGS_2.4.0 LC81960302015201MT100 La Crau 04/07/2015 LPGS_2.4.0 LC81960302015201MT100 La Crau 20/07/2015 LPGS_2.4.0 LC81960302015233MT100 La Crau 05/08/2015 LPGS_2.4.0 LC81960302015233MT100 La Crau 06/09/2015 LPGS_2.4.0 LC82000312014098MT100 Saragossa1 08/04/2014 LPGS_2.2.1 LC82000312014162MT100 Saragossa1 12/05/2014 LPGS_2.2.1 LC82000312014162MT100 Saragossa1 14/08/2014 LPGS_2.3.0 LC82000312014256MT100 Saragossa1 15/09/2014 LPGS_2.4.0 LC82000312014256MT100 Saragossa1 10/03/2015 LPGS_2.4.0 LC8200031201515MT100 Saragossa1 10/03/2015 LPGS_2.4.0 LC8200031201518MT100 Saragossa1 10/08/2015 LPGS_2.4.0 LC82000312015181MT100 Saragossa1 10/07/2015 LPGS_2.4.0 LC82000312015181MT100 Saragossa1 10/07/2015 LPGS_2.4.0 LC82000312015197MT100 Saragossa1 <td>LC81960302015153MTI00</td> <td>La Crau</td> <td>02/06/2015</td> <td>LPGS_2.4.0</td>	LC81960302015153MTI00	La Crau	02/06/2015	LPGS_2.4.0
LC81960302015185MT100 La Crau 04/07/2015 LPGS_2.4.0 LC81960302015201MT100 La Crau 20/07/2015 LPGS_2.4.0 LC81960302015217MT100 La Crau 05/08/2015 LPGS_2.4.0 LC81960302015233MT100 La Crau 06/09/2015 LPGS_2.4.0 LC81960302015249MT100 Saragossa1 08/04/2014 LPGS_2.2.1 LC82000312014162MT100 Saragossa1 26/05/2014 LPGS_2.2.1 LC82000312014162MT100 Saragossa1 11/06/2014 LPGS_2.4.0 LC820003120141258MT100 Saragossa1 11/06/2014 LPGS_2.3.0 LC82000312014258MT100 Saragossa1 10/03/2015 LPGS_2.4.0 LC820003120151569MT100 Saragossa1 10/03/2015 LPGS_2.4.0 LC82000312015169MT100 Saragossa1 14/06/2015 LPGS_2.4.0 LC82000312015169MT100 Saragossa1 14/06/2015 LPGS_2.4.0 LC82000312015261MT100 Saragossa1 14/06/2015 LPGS_2.4.0 LC82000312015261MT100 Saragossa1 17/08/2015 LPGS_2.4.0 LC82000312015261MT100 Sarago	LC81960302015169MTI00	La Crau	18/06/2015	LPGS_2.4.0
LC81960302015201MT100 La Crau 20/07/2015 LPGS_2.4.0 LC81960302015217MT100 La Crau 05/08/2015 LPGS_2.4.0 LC81960302015233MT100 La Crau 21/08/2015 LPGS_2.4.0 LC81960302015233MT100 La Crau 06/09/2015 LPGS_2.4.0 LC82000312014098MT100 Saragossa1 26/05/2014 LPGS_2.2.1 LC82000312014162MT100 Saragossa1 11/06/2014 LPGS_2.4.0 LC82000312014256MT100 Saragossa1 11/06/2014 LPGS_2.3.0 LC82000312014256MT100 Saragossa1 15/09/2014 LPGS_2.4.0 LC8200031201526MT100 Saragossa1 19/03/2015 LPGS_2.4.0 LC82000312015169MT100 Saragossa1 19/03/2015 LPGS_2.4.0 LC8200031201516MT100 Saragossa1 19/02/2015 LPGS_2.4.0 LC82000312015181MT100 Saragossa1 19/07/2015 LPGS_2.4.0 LC82000312015219MT100 Saragossa1 19/02/2014 LPGS_2.4.0 LC82000312015229MT100 Saragossa1 19/02/2014 LPGS_2.4.0 LC82000342014050MT100 Granada <td>LC81960302015185MTI00</td> <td>La Crau</td> <td>04/07/2015</td> <td>LPGS_2.4.0</td>	LC81960302015185MTI00	La Crau	04/07/2015	LPGS_2.4.0
LC81960302015217MT100 La Crau 05/08/2015 LPGS_2.4.0 LC81960302015233MT100 La Crau 21/08/2015 LPGS_2.4.0 LC819603020152349MT100 Saragossa1 08/04/2014 LPGS_2.2.1 LC82000312014098MT100 Saragossa1 26/05/2014 LPGS_2.2.1 LC82000312014166MT100 Saragossa1 21/06/2014 LPGS_2.4.0 LC82000312014162MT100 Saragossa1 11/06/2014 LPGS_2.4.0 LC82000312014256MT100 Saragossa1 15/09/2014 LPGS_2.3.0 LC82000312015069MT100 Saragossa1 15/09/2015 LPGS_2.4.0 LC82000312015169MT100 Saragossa1 14/08/2015 LPGS_2.4.0 LC82000312015189MT100 Saragossa1 16/07/2015 LPGS_2.4.0 LC82000312015181MT100 Saragossa1 16/07/2015 LPGS_2.4.0 LC82000312015213MT100 Saragossa1 17/08/2015 LPGS_2.4.0 LC82000312015213MT100 Saragossa1 17/08/2015 LPGS_2.4.0 LC82000342014050MT100 Granada 07/03/2014 LPGS_2.4.0 LC82000342014050MT100 Gran	LC81960302015201MTI00	La Crau	20/07/2015	LPGS_2.4.0
LC81960302015233MTI00 La Crau 21/08/2015 LPGS_2.4.0 LC81960302015249MTI00 La Crau 06/09/2015 LPGS_2.4.0 LC82000312014098MTI00 Saragossa1 08/04/2014 LPGS_2.2.1 LC82000312014162MTI00 Saragossa1 26/05/2014 LPGS_2.4.0 LC82000312014162MTI00 Saragossa1 11/06/2014 LPGS_2.4.0 LC82000312014226MTI00 Saragossa1 14/08/2014 LPGS_2.4.0 LC82000312014258MTI00 Saragossa1 10/03/2015 LPGS_2.4.0 LC82000312015169MTI00 Saragossa1 10/03/2015 LPGS_2.4.0 LC82000312015149MTI00 Saragossa1 10/03/2015 LPGS_2.4.0 LC82000312015181MTI00 Saragossa1 10/03/2015 LPGS_2.4.0 LC82000312015181MTI00 Saragossa1 10/08/2015 LPGS_2.4.0 LC82000312015213MTI00 Saragossa1 10/08/2015 LPGS_2.4.0 LC82000312015229MTI00 Saragossa1 10/08/2015 LPGS_2.4.0 LC82000342014056MTI00 Granada 07/03/2014 LPGS_2.4.0 LC82000342014056MTI00 Grana	LC81960302015217MTI00	La Crau	05/08/2015	LPGS_2.4.0
LC81960302015249MTI00 La Crau 06/09/2015 LPGS_2.4.0 LC82000312014098MTI00 Saragossa1 08/04/2014 LPGS_2.2.1 LC82000312014164MTI00 Saragossa1 26/05/2014 LPGS_2.2.1 LC82000312014162MTI00 Saragossa1 11/06/2014 LPGS_2.4.0 LC82000312014226MTI00 Saragossa1 12/06/2014 LPGS_2.3.0 LC82000312014226MTI00 Saragossa1 15/09/2014 LPGS_2.3.0 LC82000312015069MTI00 Saragossa1 10/03/2015 LPGS_2.4.0 LC82000312015165MTI00 Saragossa1 10/03/2015 LPGS_2.4.0 LC82000312015165MTI00 Saragossa1 14/06/2015 LPGS_2.4.0 LC82000312015167MTI00 Saragossa1 16/07/2015 LPGS_2.4.0 LC820003120151797MTI00 Saragossa1 17/08/2015 LPGS_2.4.0 LC82000312015229MTI00 Saragossa1 17/08/2015 LPGS_2.4.0 LC82000342014050MTI00 Granada 07/03/2014 LPGS_2.4.0 LC82000342014050MTI00 Granada 07/03/2014 LPGS_2.4.0 LC82000342014050MTI00 Gran	LC81960302015233MTI00	La Crau	21/08/2015	LPGS_2.4.0
LC82000312014098MTI00 Saragossa1 08/04/2014 LPGS_2.2.1 LC82000312014162MTI00 Saragossa1 26/05/2014 LPGS_2.2.1 LC82000312014162MTI00 Saragossa1 27/06/2014 LPGS_2.4.0 LC82000312014178MTI00 Saragossa1 11/06/2014 LPGS_2.4.0 LC82000312014258MTI00 Saragossa1 14/08/2014 LPGS_2.3.0 LC82000312014258MTI00 Saragossa1 10/03/2015 LPGS_2.4.0 LC82000312015169MTI00 Saragossa1 10/03/2015 LPGS_2.4.0 LC82000312015169MTI00 Saragossa1 10/07/2015 LPGS_2.4.0 LC82000312015181MTI00 Saragossa1 16/07/2015 LPGS_2.4.0 LC82000312015213MTI00 Saragossa1 16/07/2015 LPGS_2.4.0 LC82000312015261MTI00 Saragossa1 17/08/2015 LPGS_2.4.0 LC82000312015261MTI00 Saragossa1 19/02/2014 LPGS_2.4.0 LC82000342014050MTI00 Granada 07/03/2014 LPGS_2.4.0 LC82000342014050MTI00 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MTI00 Gr	LC81960302015249MTI00	La Crau	06/09/2015	LPGS_2.4.0
LC82000312014146MTI00 Saragossa1 26/05/2014 LPGS_2.2.1 LC82000312014162MTI00 Saragossa1 11/06/2014 LPGS_2.4.0 LC82000312014226MTI00 Saragossa1 27/06/2014 LPGS_2.4.0 LC82000312014258MTI00 Saragossa1 14/08/2014 LPGS_2.3.0 LC82000312015069MTI00 Saragossa1 15/09/2014 LPGS_2.4.0 LC8200031201519MTI00 Saragossa1 19/03/2015 LPGS_2.4.0 LC8200031201519MTI00 Saragossa1 14/06/2015 LPGS_2.4.0 LC82000312015181MTI00 Saragossa1 16/07/2015 LPGS_2.4.0 LC82000312015181MTI00 Saragossa1 11/08/2015 LPGS_2.4.0 LC8200031201529MTI00 Saragossa1 16/07/2015 LPGS_2.4.0 LC8200031201520MTI00 Saragossa1 18/09/2015 LPGS_2.4.0 LC82000312015261MTI00 Granada 19/02/2014 LPGS_2.4.0 LC82000342014050MTI00 Granada 19/02/2014 LPGS_2.4.0 LC82000342014050MTI00 Granada 10/05/2014 LPGS_2.4.0 LC82000342014058MTI00 Granada </td <td>LC82000312014098MTI00</td> <td>Saragossa1</td> <td>08/04/2014</td> <td>LPGS_2.2.1</td>	LC82000312014098MTI00	Saragossa1	08/04/2014	LPGS_2.2.1
LC82000312014162MTI00 Saragossa1 11/06/2014 LPGS_2.4.0 LC82000312014178MTI00 Saragossa1 27/06/2014 LPGS_2.4.0 LC82000312014226MTI00 Saragossa1 14/08/2014 LPGS_2.3.0 LC82000312014258MTI00 Saragossa1 15/09/2014 LPGS_2.3.0 LC82000312015069MTI00 Saragossa1 10/03/2015 LPGS_2.4.0 LC82000312015169MTI00 Saragossa1 10/06/2015 LPGS_2.4.0 LC82000312015181MTI00 Saragossa1 16/07/2015 LPGS_2.4.0 LC82000312015181MTI00 Saragossa1 01/08/2015 LPGS_2.4.0 LC82000312015197MTI00 Saragossa1 16/07/2015 LPGS_2.4.0 LC8200031201523MTI00 Saragossa1 17/08/2015 LPGS_2.4.0 LC8200034201450MTI00 Granada 19/02/2014 LPGS_2.4.0 LC82000342014050MTI00 Granada 07/03/2014 LPGS_2.4.0 LC82000342014098MTI00 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MTI00 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MTI00 Granada <td>LC82000312014146MTI00</td> <td>Saragossa1</td> <td>26/05/2014</td> <td>LPGS 2.2.1</td>	LC82000312014146MTI00	Saragossa1	26/05/2014	LPGS 2.2.1
LC82000312014178MTI00 Saragossa1 27/06/2014 LPGS_2.4.0 LC82000312014226MTI00 Saragossa1 14/08/2014 LPGS_2.3.0 LC82000312014258MTI00 Saragossa1 15/09/2014 LPGS_2.3.0 LC82000312015069MTI00 Saragossa1 10/03/2015 LPGS_2.4.0 LC82000312015169MTI00 Saragossa1 10/03/2015 LPGS_2.4.0 LC82000312015165MTI00 Saragossa1 14/06/2015 LPGS_2.4.0 LC82000312015181MTI00 Saragossa1 16/07/2015 LPGS_2.4.0 LC82000312015197MTI00 Saragossa1 16/07/2015 LPGS_2.4.0 LC82000312015213MTI00 Saragossa1 17/08/2015 LPGS_2.4.0 LC82000312015261MTI00 Saragossa1 18/09/2015 LPGS_2.4.0 LC82000342014050MTI00 Granada 09/02/2014 LPGS_2.4.0 LC82000342014050MTI00 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MTI00 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MTI00 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MTI00 Granada<	LC82000312014162MTI00	Saragossa1	11/06/2014	LPGS 2.4.0
LC82000312014226MT100 Saragossa1 14/08/2014 LPGS_2.3.0 LC82000312014258MT100 Saragossa1 15/09/2014 LPGS_2.3.0 LC82000312015069MT100 Saragossa1 10/03/2015 LPGS_2.4.0 LC82000312015149MT100 Saragossa1 29/05/2015 LPGS_2.4.0 LC82000312015165MT100 Saragossa1 14/06/2015 LPGS_2.4.0 LC82000312015181MT100 Saragossa1 30/06/2015 LPGS_2.4.0 LC82000312015197MT100 Saragossa1 16/07/2015 LPGS_2.4.0 LC82000312015213MT100 Saragossa1 17/08/2015 LPGS_2.4.0 LC82000312015261MT100 Saragossa1 17/08/2015 LPGS_2.4.0 LC82000342014050MT100 Granada 19/02/2014 LPGS_2.4.0 LC82000342014050MT100 Granada 07/03/2014 LPGS_2.4.0 LC82000342014050MT100 Granada 19/02/2014 LPGS_2.4.0 LC82000342014050MT100 Granada 10/05/2014 LPGS_2.4.0 LC82000342014050MT100 Granada 10/05/2014 LPGS_2.4.0 LC82000342014050MT100 Granada <td>LC82000312014178MTI00</td> <td>Saragossa1</td> <td>27/06/2014</td> <td>LPGS 2.4.0</td>	LC82000312014178MTI00	Saragossa1	27/06/2014	LPGS 2.4.0
LC82000312014258MT100 Saragossa1 15/09/2014 LPGS_2.3.0 LC82000312015069MT100 Saragossa1 10/03/2015 LPGS_2.4.0 LC82000312015149MT100 Saragossa1 29/05/2015 LPGS_2.4.0 LC82000312015165MT100 Saragossa1 14/06/2015 LPGS_2.4.0 LC82000312015165MT100 Saragossa1 30/06/2015 LPGS_2.4.0 LC82000312015181MT100 Saragossa1 16/07/2015 LPGS_2.4.0 LC82000312015213MT100 Saragossa1 11/08/2015 LPGS_2.4.0 LC82000312015201MT100 Saragossa1 17/08/2015 LPGS_2.4.0 LC82000312015261MT100 Saragossa1 19/02/2014 LPGS_2.4.0 LC82000342014050MT100 Granada 19/02/2014 LPGS_2.4.0 LC82000342014050MT100 Granada 07/03/2014 LPGS_2.4.0 LC8200034201406MT100 Granada 10/05/2014 LPGS_2.4.0 LC8200034201426MT100 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MT100 Granada 15/09/2014 LPGS_2.4.0 LC82000342014242MT100 Granada	LC82000312014226MTI00	Saragossa1	14/08/2014	LPGS 2.3.0
LC82000312015069MTI00 Saragossa1 10/03/2015 LPGS_2.4.0 LC82000312015149MTI00 Saragossa1 29/05/2015 LPGS_2.4.0 LC82000312015165MTI00 Saragossa1 14/06/2015 LPGS_2.4.0 LC82000312015165MTI00 Saragossa1 30/06/2015 LPGS_2.4.0 LC82000312015197MTI00 Saragossa1 30/06/2015 LPGS_2.4.0 LC82000312015213MTI00 Saragossa1 01/08/2015 LPGS_2.4.0 LC82000312015229MTI00 Saragossa1 17/08/2015 LPGS_2.4.0 LC82000312015261MTI00 Saragossa1 18/09/2015 LPGS_2.4.0 LC82000342014050MTI00 Granada 19/02/2014 LPGS_2.4.0 LC82000342014050MTI00 Granada 07/03/2014 LPGS_2.4.0 LC8200034201406MTI00 Granada 10/05/2014 LPGS_2.4.0 LC8200034201426MTI00 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MTI00 Granada 10/05/2014 LPGS_2.4.0 LC82000342014258MTI00 Granada 20/12/2014 LPGS_2.4.0 LC82000342014258MTI00 Granada	LC82000312014258MTI00	Saragossa1	15/09/2014	 LPGS 2.3.0
LC82000312015149MTI00 Saragossa1 29/05/2015 LPGS_2.4.0 LC82000312015165MTI00 Saragossa1 14/06/2015 LPGS_2.4.0 LC82000312015165MTI00 Saragossa1 30/06/2015 LPGS_2.4.0 LC82000312015181MTI00 Saragossa1 30/06/2015 LPGS_2.4.0 LC82000312015213MTI00 Saragossa1 16/07/2015 LPGS_2.4.0 LC82000312015229MTI00 Saragossa1 17/08/2015 LPGS_2.4.0 LC82000312015261MTI00 Saragossa1 18/09/2015 LPGS_2.4.0 LC82000342014050MTI00 Granada 19/02/2014 LPGS_2.4.0 LC82000342014050MTI00 Granada 07/03/2014 LPGS_2.4.0 LC82000342014066MTI00 Granada 10/05/2014 LPGS_2.4.0 LC8200034201426MTI00 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MTI00 Granada 15/08/2014 LPGS_2.4.0 LC82000342014242MTI00 Granada 15/09/2014 LPGS_2.4.0 LC82000342014258MTI00 Granada 05/01/2015 LPGS_2.4.0 LC82000342014250MTI00 Granada	LC82000312015069MTI00	Saragossa1	10/03/2015	 LPGS 2.4.0
LC82000312015165MTI00 Saragossa1 14/06/2015 LPGS_2.4.0 LC82000312015181MTI00 Saragossa1 30/06/2015 LPGS_2.4.0 LC82000312015197MTI00 Saragossa1 16/07/2015 LPGS_2.4.0 LC82000312015213MTI00 Saragossa1 16/07/2015 LPGS_2.4.0 LC82000312015229MTI00 Saragossa1 17/08/2015 LPGS_2.4.0 LC82000312015261MTI00 Saragossa1 18/09/2015 LPGS_2.4.0 LC82000342014050MTI00 Granada 19/02/2014 LPGS_2.4.0 LC82000342014050MTI00 Granada 07/03/2014 LPGS_2.4.0 LC82000342014066MTI00 Granada 08/04/2014 LPGS_2.4.0 LC82000342014098MTI00 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MTI00 Granada 15/08/2014 LPGS_2.4.0 LC82000342014242MTI00 Granada 15/09/2014 LPGS_2.4.0 LC82000342014258MTI00 Granada 05/01/2015 LPGS_2.4.0 LC82000342014258MTI00 Granada 05/01/2015 LPGS_2.4.0 LC82000342014250SMTI00 Granada	LC82000312015149MTI00	Saragossa1	29/05/2015	 LPGS 2.4.0
LC82000312015181MT100 Saragossa1 30/06/2015 LPGS_2.4.0 LC82000312015197MT100 Saragossa1 16/07/2015 LPGS_2.4.0 LC82000312015213MT100 Saragossa1 01/08/2015 LPGS_2.4.0 LC82000312015229MT100 Saragossa1 17/08/2015 LPGS_2.4.0 LC82000312015229MT100 Saragossa1 18/09/2015 LPGS_2.4.0 LC82000342014050MT100 Granada 19/02/2014 LPGS_2.4.0 LC82000342014050MT100 Granada 07/03/2014 LPGS_2.4.0 LC82000342014050MT100 Granada 07/03/2014 LPGS_2.4.0 LC82000342014098MT100 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MT100 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MT100 Granada 15/09/2014 LPGS_2.4.0 LC82000342014258MT100 Granada 15/09/2014 LPGS_2.4.0 LC82000342014354MT100 Granada 15/09/2014 LPGS_2.4.0 LC82000342015053MT100 Granada 10/03/2015 LPGS_2.4.0 LC82000342015053MT100 Granada <t< td=""><td>LC82000312015165MTI00</td><td>Saragossa1</td><td>14/06/2015</td><td>LPGS 2.4.0</td></t<>	LC82000312015165MTI00	Saragossa1	14/06/2015	LPGS 2.4.0
LC82000312015197MT100 Saragossa1 16/07/2015 LPGS_2.4.0 LC82000312015213MT100 Saragossa1 01/08/2015 LPGS_2.4.0 LC82000312015229MT100 Saragossa1 17/08/2015 LPGS_2.4.0 LC82000312015229MT100 Saragossa1 18/09/2015 LPGS_2.4.0 LC82000342014050MT100 Granada 19/02/2014 LPGS_2.4.0 LC82000342014050MT100 Granada 07/03/2014 LPGS_2.4.0 LC82000342014050MT100 Granada 07/03/2014 LPGS_2.4.0 LC82000342014066MT100 Granada 08/04/2014 LPGS_2.4.0 LC82000342014204098MT100 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MT100 Granada 15/08/2014 LPGS_2.4.0 LC82000342014226MT100 Granada 15/09/2014 LPGS_2.4.0 LC82000342014258MT100 Granada 15/09/2014 LPGS_2.4.0 LC82000342014354MT100 Granada 05/01/2015 LPGS_2.4.0 LC82000342015053MT100 Granada 10/03/2015 LPGS_2.4.0 LC82000342015053MT100 Granada <t< td=""><td>LC82000312015181MTI00</td><td>Saragossa1</td><td>30/06/2015</td><td>LPGS 2.4.0</td></t<>	LC82000312015181MTI00	Saragossa1	30/06/2015	LPGS 2.4.0
LC82000312015213MTI00 Saragossa1 01/08/2015 LPGs_2.4.0 LC82000312015229MTI00 Saragossa1 17/08/2015 LPGs_2.4.0 LC82000312015261MTI00 Saragossa1 18/09/2015 LPGS_2.4.0 LC82000342014050MTI00 Granada 19/02/2014 LPGS_2.4.0 LC82000342014066MTI00 Granada 07/03/2014 LPGS_2.4.0 LC82000342014066MTI00 Granada 07/03/2014 LPGS_2.4.0 LC82000342014066MTI00 Granada 08/04/2014 LPGS_2.4.0 LC82000342014056MTI00 Granada 10/05/2014 LPGS_2.4.0 LC8200034201426MTI00 Granada 15/08/2014 LPGS_2.4.0 LC82000342014258MTI00 Granada 30/08/2014 LPGS_2.4.0 LC82000342014258MTI00 Granada 20/12/2014 LPGS_2.4.0 LC82000342015053MTI00 Granada 05/01/2015 LPGS_2.4.0 LC82000342015053MTI00 Granada 10/03/2015 LPGS_2.4.0 LC82000342015053MTI00 Granada 10/03/2015 LPGS_2.4.0 LC82000342015053MTI00 Granada 10/03	LC82000312015197MTI00	Saragossa1	16/07/2015	LPGS 2.4.0
LC82000312015229MTI00 Saragossa1 17/08/2015 LPGS_2.4.0 LC82000312015261MTI00 Saragossa1 18/09/2015 LPGS_2.4.0 LC82000342014050MTI00 Granada 19/02/2014 LPGS_2.4.0 LC82000342014066MTI00 Granada 07/03/2014 LPGS_2.4.0 LC82000342014066MTI00 Granada 08/04/2014 LPGS_2.4.0 LC82000342014098MTI00 Granada 08/04/2014 LPGS_2.4.0 LC8200034201426MTI00 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MTI00 Granada 30/08/2014 LPGS_2.4.0 LC82000342014226MTI00 Granada 15/09/2014 LPGS_2.4.0 LC82000342014242MTI00 Granada 15/09/2014 LPGS_2.4.0 LC82000342014258MTI00 Granada 20/12/2014 LPGS_2.4.0 LC8200034201505MTI00 Granada 05/01/2015 LPGS_2.4.0 LC8200034201505MTI00 Granada 10/03/2015 LPGS_2.4.0 LC8200034201505MTI00 Granada 10/03/2015 LPGS_2.4.0 LC82000342015069MTI00 Granada 10/03/2015<	LC82000312015213MTI00	Saragossa1	01/08/2015	LPGS 2.4.0
LC82000312015261MTI00 Saragossa1 18/09/2015 LPGS_2.4.0 LC82000342014050MTI00 Granada 19/02/2014 LPGS_2.4.0 LC82000342014066MTI00 Granada 07/03/2014 LPGS_2.4.0 LC82000342014066MTI00 Granada 08/04/2014 LPGS_2.4.0 LC82000342014098MTI00 Granada 08/04/2014 LPGS_2.4.0 LC8200034201426MTI00 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MTI00 Granada 30/08/2014 LPGS_2.4.0 LC82000342014242MTI00 Granada 15/09/2014 LPGS_2.4.0 LC82000342014242MTI00 Granada 15/09/2014 LPGS_2.4.0 LC82000342014258MTI00 Granada 20/12/2014 LPGS_2.4.0 LC8200034201505MTI00 Granada 05/01/2015 LPGS_2.4.0 LC8200034201505MTI00 Granada 10/03/2015 LPGS_2.4.0 LC8200034201505MTI00 Granada 10/03/2015 LPGS_2.4.0 LC8200034201505MTI00 Granada 10/03/2015 LPGS_2.4.0 LC82000342015069MTI00 Granada 10/07/2015	LC82000312015229MTI00	Saragossa1	17/08/2015	LPGS 2.4.0
LC82000342014050MTI00Granada19/02/2014LPGS_2.4.0LC82000342014066MTI00Granada07/03/2014LPGS_2.4.0LC82000342014098MTI00Granada08/04/2014LPGS_2.4.0LC82000342014130MTI00Granada10/05/2014LPGS_2.4.0LC82000342014226MTI00Granada15/08/2014LPGS_2.4.0LC82000342014226MTI00Granada30/08/2014LPGS_2.4.0LC82000342014242MTI00Granada30/08/2014LPGS_2.4.0LC82000342014258MTI00Granada15/09/2014LPGS_2.4.0LC82000342014354MTI00Granada20/12/2014LPGS_2.4.0LC8200034201505MTI00Granada05/01/2015LPGS_2.4.0LC8200034201505MTI00Granada10/03/2015LPGS_2.4.0LC8200034201505MTI00Granada10/03/2015LPGS_2.4.0LC8200034201505MTI00Granada13/05/2015LPGS_2.4.0LC8200034201505MTI00Granada13/05/2015LPGS_2.4.0LC82000342015133MT00Granada10/03/2015LPGS_2.4.0LC82000342015131MTI00Granada10/08/2015LPGS_2.4.0LC82000342015213MTI00Granada01/08/2015LPGS_2.4.0LC82000342015229MTI00Granada01/08/2015LPGS_2.4.0LC82000342015245MTI00Granada02/09/2015LPGS_2.4.0LC82000342015245MTI00Granada02/09/2015LPGS_2.4.0LC82000342015245MTI00Granada02/09/2015LPGS_2.5.1LC82000342015261MTI00Granada05/11/2015LPGS_2.5.1 <td>LC82000312015261MTI00</td> <td>Saragossa1</td> <td>18/09/2015</td> <td>LPGS 2.4.0</td>	LC82000312015261MTI00	Saragossa1	18/09/2015	LPGS 2.4.0
LC82000342014066MTI00Granada07/03/2014LPGS_2.4.0LC82000342014098MTI00Granada08/04/2014LPGS_2.4.0LC82000342014130MTI00Granada10/05/2014LPGS_2.4.0LC82000342014226MTI00Granada15/08/2014LPGS_2.4.0LC82000342014226MTI00Granada30/08/2014LPGS_2.4.0LC82000342014242MTI00Granada30/08/2014LPGS_2.4.0LC82000342014258MTI00Granada15/09/2014LPGS_2.4.0LC82000342014354MTI00Granada20/12/2014LPGS_2.4.0LC8200034201505MTI00Granada05/01/2015LPGS_2.4.0LC82000342015053MTI00Granada22/02/2015LPGS_2.4.0LC82000342015053MTI00Granada10/03/2015LPGS_2.4.0LC82000342015053MTI00Granada10/03/2015LPGS_2.4.0LC82000342015133MT00Granada10/03/2015LPGS_2.4.0LC82000342015131MTI00Granada16/07/2015LPGS_2.4.0LC82000342015213MTI00Granada01/08/2015LPGS_2.4.0LC82000342015229MTI00Granada01/08/2015LPGS_2.4.0LC82000342015229MTI00Granada01/08/2015LPGS_2.4.0LC82000342015245MTI00Granada01/08/2015LPGS_2.4.0LC82000342015245MTI00Granada01/08/2015LPGS_2.4.0LC82000342015245MTI00Granada01/08/2015LPGS_2.4.0LC82000342015261MTI00Granada02/09/2015LPGS_2.5.1LC820003420153341MTI00Granada05/11/2015LPGS_2.5.1 <td>LC82000342014050MTI00</td> <td>Granada</td> <td>19/02/2014</td> <td> LPGS 2.4.0</td>	LC82000342014050MTI00	Granada	19/02/2014	 LPGS 2.4.0
LC82000342014098MTI00 Granada 08/04/2014 LPGS_2.4.0 LC82000342014130MTI00 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MTI00 Granada 15/08/2014 LPGS_2.4.0 LC82000342014226MTI00 Granada 30/08/2014 LPGS_2.4.0 LC82000342014242MTI00 Granada 30/08/2014 LPGS_2.4.0 LC82000342014258MTI00 Granada 15/09/2014 LPGS_2.4.0 LC82000342014258MTI00 Granada 20/12/2014 LPGS_2.4.0 LC8200034201505MTI00 Granada 05/01/2015 LPGS_2.4.0 LC8200034201505MTI00 Granada 05/01/2015 LPGS_2.4.0 LC82000342015053MTI00 Granada 10/03/2015 LPGS_2.4.0 LC82000342015059MTI00 Granada 10/03/2015 LPGS_2.4.0 LC82000342015133MT00 Granada 13/05/2015 LPGS_2.4.0 LC82000342015133MT00 Granada 16/07/2015 LPGS_2.4.0 LC82000342015213MTI00 Granada 01/08/2015 LPGS_2.4.0 LC82000342015213MTI00 Granada 01/08/2015	LC82000342014066MTI00	Granada	07/03/2014	LPGS 2.4.0
LC82000342014130MTI00 Granada 10/05/2014 LPGS_2.4.0 LC82000342014226MTI00 Granada 15/08/2014 LPGS_2.4.0 LC82000342014226MTI00 Granada 30/08/2014 LPGS_2.4.0 LC82000342014228MTI00 Granada 30/08/2014 LPGS_2.4.0 LC82000342014258MTI00 Granada 15/09/2014 LPGS_2.4.0 LC82000342014354MTI00 Granada 20/12/2014 LPGS_2.4.0 LC8200034201505MTI00 Granada 05/01/2015 LPGS_2.4.0 LC8200034201505MTI00 Granada 05/01/2015 LPGS_2.4.0 LC8200034201505MTI00 Granada 05/01/2015 LPGS_2.4.0 LC8200034201505MTI00 Granada 10/03/2015 LPGS_2.4.0 LC82000342015069MTI00 Granada 13/05/2015 LPGS_2.4.0 LC82000342015181MTI00 Granada 30/06/2015 LPGS_2.4.0 LC82000342015181MTI00 Granada 01/08/2015 LPGS_2.4.0 LC82000342015213MTI00 Granada 01/08/2015 LPGS_2.4.0 LC82000342015219MTI00 Granada 02/09/2015	LC82000342014098MTI00	Granada	08/04/2014	 LPGS 2.4.0
InternationInternationInternationLC82000342014226MTI00Granada15/08/2014LPGS_2.4.0LC82000342014242MTI00Granada30/08/2014LPGS_2.4.0LC82000342014258MTI00Granada15/09/2014LPGS_2.4.0LC82000342014354MTI00Granada20/12/2014LPGS_2.4.0LC82000342015005MTI00Granada05/01/2015LPGS_2.4.0LC82000342015053MTI00Granada05/01/2015LPGS_2.4.0LC82000342015069MTI00Granada10/03/2015LPGS_2.4.0LC82000342015133MT00Granada13/05/2015LPGS_2.4.0LC82000342015131MT00Granada13/05/2015LPGS_2.4.0LC82000342015181MT100Granada16/07/2015LPGS_2.4.0LC82000342015197MT100Granada01/08/2015LPGS_2.4.0LC82000342015213MT100Granada01/08/2015LPGS_2.4.0LC82000342015229MT100Granada01/08/2015LPGS_2.4.0LC82000342015245MT100Granada02/09/2015LPGS_2.4.0LC82000342015261MT100Granada02/09/2015LPGS_2.4.0LC82000342015261MT100Granada02/09/2015LPGS_2.4.0LC82000342015261MT100Granada05/11/2015LPGS_2.5.1LC82000342015341MT100Granada07/12/2015LPGS_2.5.1LC82000342015341MT100Granada07/12/2015LPGS_2.5.1LC82000342015341MT100Granada07/12/2015LPGS_2.5.1LC82000342015341MT100Granada07/12/2015LPGS_2.5.1	LC82000342014130MTI00	Granada	10/05/2014	LPGS 2.4.0
LO82000342014242MTIO0 Granada 30/08/2014 LPGS_2.4.0 LC82000342014258MTIO0 Granada 15/09/2014 LPGS_2.4.0 LC82000342014258MTIO0 Granada 20/12/2014 LPGS_2.4.0 LC82000342014354MTIO0 Granada 20/12/2014 LPGS_2.4.0 LC82000342015005MTIO0 Granada 05/01/2015 LPGS_2.4.0 LC82000342015053MTIO0 Granada 22/02/2015 LPGS_2.4.0 LC82000342015069MTIO0 Granada 10/03/2015 LPGS_2.4.0 LC82000342015069MTIO0 Granada 10/03/2015 LPGS_2.4.0 LC82000342015133MT00 Granada 13/05/2015 LPGS_2.4.0 LC82000342015181MTI00 Granada 30/06/2015 LPGS_2.4.0 LC82000342015181MTI00 Granada 16/07/2015 LPGS_2.4.0 LC82000342015213MTI00 Granada 01/08/2015 LPGS_2.4.0 LC82000342015213MTI00 Granada 01/08/2015 LPGS_2.4.0 LC82000342015229MTI00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015245MTI00 Granada 02/09/2015 <td>LC82000342014226MTI00</td> <td>Granada</td> <td>15/08/2014</td> <td>LPGS 2.4.0</td>	LC82000342014226MTI00	Granada	15/08/2014	LPGS 2.4.0
ICORDONALOTIONOranadaICORDONALOTIONICORDONALOTIONLC82000342014258MTIO0Granada15/09/2014LPGS_2.4.0LC82000342014354MTIO0Granada20/12/2014LPGS_2.4.0LC82000342015005MTIO0Granada05/01/2015LPGS_2.4.0LC82000342015053MTIO0Granada10/03/2015LPGS_2.4.0LC82000342015069MTIO0Granada10/03/2015LPGS_2.4.0LC82000342015133MT00Granada13/05/2015LPGS_2.4.0LC82000342015181MTIO0Granada30/06/2015LPGS_2.4.0LC82000342015197MTIO0Granada16/07/2015LPGS_2.4.0LC82000342015213MTIO0Granada01/08/2015LPGS_2.4.0LC82000342015213MTIO0Granada01/08/2015LPGS_2.4.0LC82000342015229MTIO0Granada01/08/2015LPGS_2.4.0LC82000342015245MTIO0Granada02/09/2015LPGS_2.4.0LC82000342015261MTIO0Granada02/09/2015LPGS_2.4.0LC82000342015309MTIO0Granada05/11/2015LPGS_2.5.1LC82000342015341MTIO0Granada05/11/2015LPGS_2.5.1LC82000342015341MTIO0Granada07/12/2015LPGS_2.5.1LC82000342015341MTIO0Granada07/12/2015LPGS_2.5.1LC82000342015341MTIO0Granada07/12/2015LPGS_2.5.1LC82000342015341MTIO0Granada07/12/2015LPGS_2.5.1	L082000342014242MTI00	Granada	30/08/2014	LPGS 2.4.0
LC82000342014354MTi00GranadaLS/05/2011LF GS_2110LC82000342014354MTi00Granada20/12/2014LPGS_2.4.0LC82000342015005MTi00Granada05/01/2015LPGS_2.4.0LC82000342015053MTi00Granada22/02/2015LPGS_2.4.0LC82000342015069MTi00Granada10/03/2015LPGS_2.4.0LC82000342015133MT00Granada13/05/2015LPGS_2.4.0LC82000342015181MTi00Granada30/06/2015LPGS_2.4.0LC82000342015197MTi00Granada16/07/2015LPGS_2.4.0LC82000342015213MTi00Granada01/08/2015LPGS_2.4.0LC82000342015229MTi00Granada01/08/2015LPGS_2.4.0LC82000342015245MTi00Granada02/09/2015LPGS_2.4.0LC82000342015261MTi00Granada02/09/2015LPGS_2.4.0LC82000342015261MTi00Granada05/11/2015LPGS_2.4.0LC82000342015261MTi00Granada05/11/2015LPGS_2.5.1LC82000342015341MTi00Granada05/11/2015LPGS_2.5.1LC82000342015341MTi00Granada07/12/2015LPGS_2.5.1LC82000342015341MTi00Granada07/12/2015LPGS_2.5.1	I C82000342014258MTI00	Granada	15/09/2014	1PGS 240
LC822000342015005MTi00 Granada LC9/12/2011 LF GS_2110 LC82000342015005MTi00 Granada 05/01/2015 LPGS_2.4.0 LC82000342015053MTi00 Granada 22/02/2015 LPGS_2.4.0 LC82000342015069MTi00 Granada 10/03/2015 LPGS_2.4.0 LC82000342015133MT00 Granada 13/05/2015 LPGS_2.4.0 LC82000342015133MT00 Granada 13/05/2015 LPGS_2.4.0 LC82000342015181MTi00 Granada 30/06/2015 LPGS_2.4.0 LC82000342015181MTi00 Granada 16/07/2015 LPGS_2.4.0 LC82000342015213MTi00 Granada 01/08/2015 LPGS_2.4.0 LC82000342015229MTi00 Granada 01/08/2015 LPGS_2.4.0 LC82000342015229MTi00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015245MTi00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MTi00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MTi00 Granada 02/09/2015 LPGS_2.5.1 LC82000342015309MTi00 Granada 05/11/2015 <td>I C82000342014354MTI00</td> <td>Granada</td> <td>20/12/2014</td> <td>1PGS 240</td>	I C82000342014354MTI00	Granada	20/12/2014	1PGS 240
LC82D00342015053MTi00 Granada D3/01/2015 Lr 05_2110 LC82000342015053MTi00 Granada 22/02/2015 LPGS_2.4.0 LC82000342015069MTi00 Granada 10/03/2015 LPGS_2.4.0 LC82000342015133MT00 Granada 13/05/2015 LPGS_2.4.0 LC82000342015133MT00 Granada 30/06/2015 LPGS_2.4.0 LC82000342015181MTi00 Granada 30/06/2015 LPGS_2.4.0 LC82000342015197MTi00 Granada 16/07/2015 LPGS_2.4.0 LC82000342015213MTi00 Granada 01/08/2015 LPGS_2.4.0 LC82000342015213MTi00 Granada 01/08/2015 LPGS_2.4.0 LC82000342015229MTi00 Granada 01/08/2015 LPGS_2.4.0 LC82000342015245MTi00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MTi00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MTi00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015309MTi00 Granada 05/11/2015 LPGS_2.5.1 LC820003420153041MTi00 Granada 07/12/2015 <td>I C82000342015005MTI00</td> <td>Granada</td> <td>05/01/2015</td> <td>1PGS 240</td>	I C82000342015005MTI00	Granada	05/01/2015	1PGS 240
LC82000342015069MTI00 Granada 10/03/2015 LPGS_2.4.0 LC82000342015133MT00 Granada 13/05/2015 LPGS_2.4.0 LC82000342015133MT00 Granada 30/06/2015 LPGS_2.4.0 LC82000342015181MTI00 Granada 30/06/2015 LPGS_2.4.0 LC82000342015197MTI00 Granada 16/07/2015 LPGS_2.4.0 LC82000342015213MTI00 Granada 01/08/2015 LPGS_2.4.0 LC82000342015229MTI00 Granada 01/08/2015 LPGS_2.4.0 LC82000342015229MTI00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015245MTI00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MTI00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MTI00 Granada 08/09/2015 LPGS_2.4.0 LC82000342015309MTI00 Granada 05/11/2015 LPGS_2.5.1 LC82000342015309MTI00 Granada 05/11/2015 LPGS_2.5.1 LC82000342015341MTI00 Granada 07/12/2015 LPGS_2.5.1 LC82000342016008MTI00 Granada 08/01/2016	LC82000342015053MTI00	Granada	22/02/2015	LPGS 2.4.0
LC82000342015133MT00 Granada 13/05/2015 LPGS_2.4.0 LC82000342015181MT100 Granada 30/06/2015 LPGS_2.4.0 LC82000342015181MT100 Granada 16/07/2015 LPGS_2.4.0 LC82000342015197MT100 Granada 16/07/2015 LPGS_2.4.0 LC82000342015213MT100 Granada 01/08/2015 LPGS_2.4.0 LC82000342015229MT100 Granada 01/08/2015 LPGS_2.4.0 LC82000342015229MT100 Granada 02/09/2015 LPGS_2.4.0 LC82000342015245MT100 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MT100 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MT100 Granada 05/11/2015 LPGS_2.5.1 LC82000342015309MT100 Granada 05/11/2015 LPGS_2.5.1 LC82000342015341MT100 Granada 07/12/2015 LPGS_2.5.1 LC82000342015341MT100 Granada 07/12/2015 LPGS_2.5.1	I C82000342015069MTI00	Granada	10/03/2015	1PGS 240
LC82000342015181MTI00 Granada 13/05/1015 LF G5_2.4.0 LC82000342015181MTI00 Granada 30/06/2015 LPGS_2.4.0 LC82000342015197MTI00 Granada 16/07/2015 LPGS_2.4.0 LC82000342015213MTI00 Granada 01/08/2015 LPGS_2.4.0 LC82000342015213MTI00 Granada 01/08/2015 LPGS_2.4.0 LC82000342015229MTI00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MTI00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MTI00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MTI00 Granada 05/11/2015 LPGS_2.5.1 LC82000342015309MTI00 Granada 05/11/2015 LPGS_2.5.1 LC82000342015341MTI00 Granada 07/12/2015 LPGS_2.5.1 LC82000342016008MTI00 Granada 08/01/2016 LPGS_2.5.1	LC82000342015133MT00	Granada	13/05/2015	1PGS 240
LC82000342015197MTI00 Granada 36/00/1015 Lr 65_110 LC82000342015197MTI00 Granada 16/07/2015 LPGS_2.4.0 LC82000342015213MTI00 Granada 01/08/2015 LPGS_2.4.0 LC82000342015229MTI00 Granada 17/08/2015 LPGS_2.4.0 LC82000342015245MTI00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MTI00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MTI00 Granada 05/11/2015 LPGS_2.4.0 LC82000342015309MTI00 Granada 05/11/2015 LPGS_2.5.1 LC82000342015341MTI00 Granada 07/12/2015 LPGS_2.5.1 LC82000342015341MTI00 Granada 07/12/2015 LPGS_2.5.1	I C82000342015181MTI00	Granada	30/06/2015	1PGS 240
LC82000342015213MTI00 Granada 10/07/2015 LPGS_2.4.0 LC82000342015213MTI00 Granada 01/08/2015 LPGS_2.4.0 LC82000342015229MTI00 Granada 17/08/2015 LPGS_2.4.0 LC82000342015245MTI00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MTI00 Granada 18/09/2015 LPGS_2.4.0 LC82000342015261MTI00 Granada 05/11/2015 LPGS_2.4.0 LC82000342015309MTI00 Granada 05/11/2015 LPGS_2.5.1 LC82000342015341MTI00 Granada 07/12/2015 LPGS_2.5.1 LC82000342016008MTI00 Granada 08/01/2016 LPGS_2.5.1	LC82000342015197MTI00	Granada	16/07/2015	LPGS 240
LC82000342015229MTI00 Granada 01/00/2015 LFGS_2.4.0 LC82000342015245MTI00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MTI00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MTI00 Granada 18/09/2015 LPGS_2.4.0 LC82000342015261MTI00 Granada 05/11/2015 LPGS_2.5.1 LC82000342015309MTI00 Granada 05/11/2015 LPGS_2.5.1 LC82000342015341MTI00 Granada 07/12/2015 LPGS_2.5.1 LC82000342016008MTI00 Granada 08/01/2016 LPGS_2.5.1	LC820003420152131MT100	Granada	01/08/2015	1PGS 240
LC82000342015245MTI00 Granada 17/00/2015 LFGS_2.4.0 LC82000342015261MTI00 Granada 02/09/2015 LPGS_2.4.0 LC82000342015261MTI00 Granada 18/09/2015 LPGS_2.4.0 LC82000342015309MTI00 Granada 05/11/2015 LPGS_2.5.1 LC82000342015341MTI00 Granada 07/12/2015 LPGS_2.5.1 LC82000342016008MTI00 Granada 08/01/2016 LPGS_2.5.1	LC82000342015229MTI00	Granada	17/08/2015	1PGS 240
LC82000342015261MTI00 Granada 02/05/2015 LPGS_2.4.0 LC82000342015261MTI00 Granada 18/09/2015 LPGS_2.4.0 LC82000342015309MTI00 Granada 05/11/2015 LPGS_2.5.1 LC82000342015341MTI00 Granada 07/12/2015 LPGS_2.5.1 LC82000342016008MTI00 Granada 08/01/2016 LPGS_2.5.1	LC82000342015245MT100	Granada	02/09/2015	1PGS 240
LC820003420152013100 Granada 15/05/2015 LPGS_2.4.0 LC82000342015309MTI00 Granada 05/11/2015 LPGS_2.5.1 LC82000342015341MTI00 Granada 07/12/2015 LPGS_2.5.1 LC82000342016008MTI00 Granada 08/01/2016 LPGS_2.5.1	LC82000342015261MTI00	Granada	18/09/2015	1PGS 240
LC82000342015341MTI00 Granada 05/11/2015 LFGS_2.5.1 LC82000342016008MTI00 Granada 08/01/2016 LPGS_2.5.1	LC82000342015309MTI00	Granada	05/11/2015	1 PGS 2 5 1
IC82000342016008MTI00 Granada 08/01/2016 IPGS 2.5.1	LC82000342015341MTI00	Granada	07/12/2015	1 PGS 2 5 1
	LC82000342016008MTI00	Granada	08/01/2016	LPGS 2 5 1

8.3.Interband registration accuracy (24 products)

Product ID	Site	Observation	Processor
		date	
LC82000312013175NSG00	Saragossa1	24/06/2013	LPGS_2.2.1
LC82000312013207NSG00	Saragossa1	26/07/2013	LPGS_2.2.1
LC82000312013255NSG00	Saragossa1	12/09/2013	LPGS_2.2.1
LC82000312014066MTI00	Saragossa1	07/03/2014	LPGS_2.2.1
LC82000312015181MTI00	Saragossa1	30/06/2015	LPGS_2.4.0
LC81790412014015MTI00	Egypt1	15/01/2014	LPGS_2.2.1
LC81790412014047MTI00	Egypt1	16/02/2014	LPGS_2.2.1
LC81790412014079MTI00	Egypt1	20/03/2014	LPGS_2.2.1
LC81790412014095MTI00	Egypt1	05/04/2014	LPGS_2.2.1
LC81790412014111MTI00	Egypt1	21/04/2014	LPGS_2.2.1
LC81790412014063MTI00	Egypt1	04/03/2014	LPGS_2.2.1
LC81980252013273LGN00	Belgium	30/09/2013	LPGS_2.2.1
LC81980252014020MTI00	Belgium	09/03/2014	LPGS_2.2.1
LC81810402013154LGN00	Libya4	03/06/2013	LPGS_2.2.1
LC81810402013186LGN00	Libya4	05/07/2013	LPGS_2.2.1
LC81810402013250LGN00	Libya4	07/09/2013	LPGS_2.2.1
LC81810402014045MTI00	Libya4	14/02/2014	LPGS_2.2.1
LC81810402014061MTI00	Libya4	02/03/2014	LPGS_2.2.1
LC82000342014354MTI00	Granada	20/12/2014	LPGS_2.3.0
LC82000342015005MTI00	Granada	05/01/2015	LPGS_2.3.0
LC82000342015069MTI00	Granada	10/03/2015	LPGS_2.4.0
LC82000342015309MTI00	Granada	05/11/2015	LPGS_2.5.1
LC82000342015341MTI00	Granada	07/12/2015	LPGS_2.5.1
LC82000342016008MTI00	Granada	08/01/2016	LPGS_2.5.1