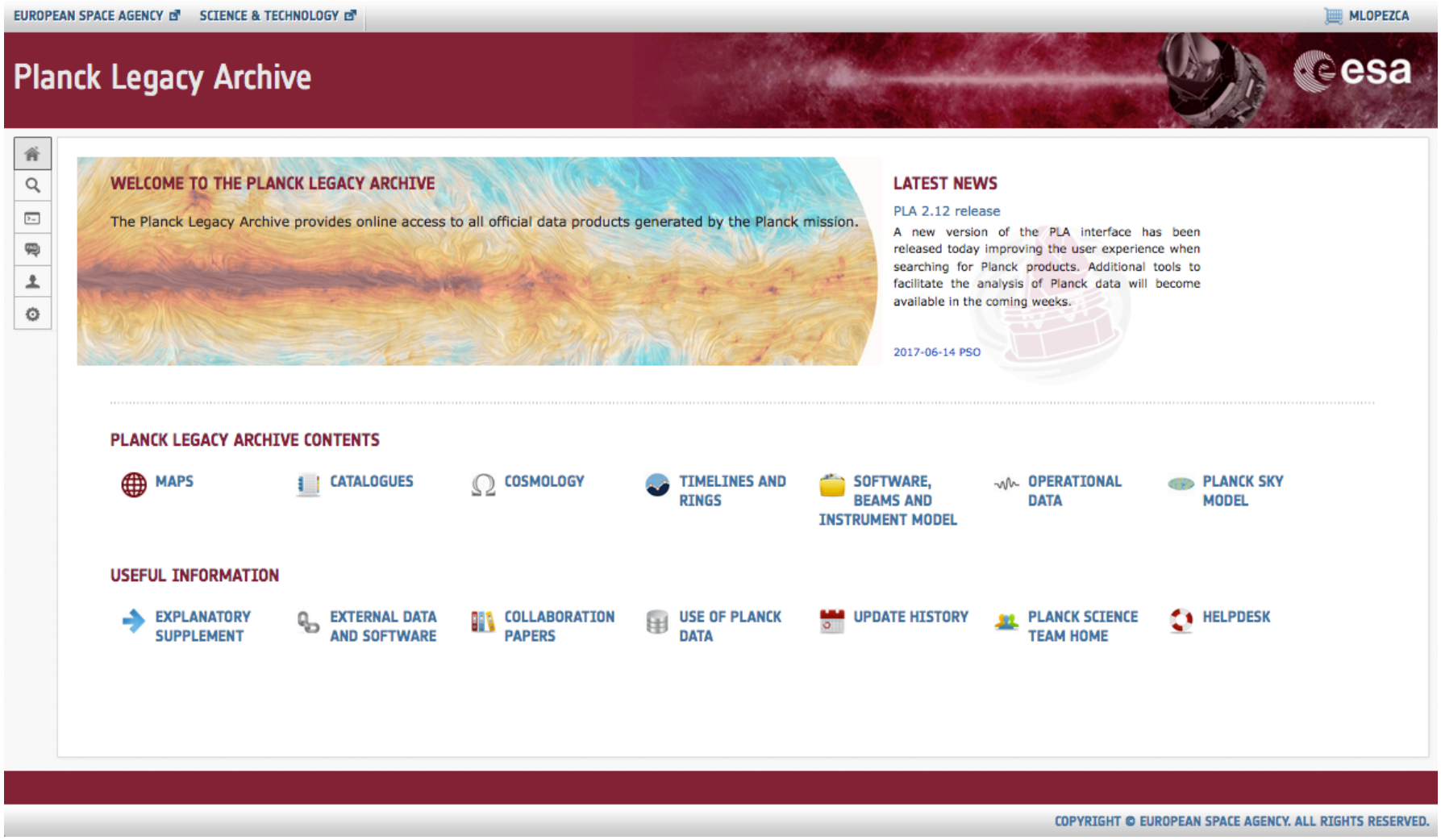
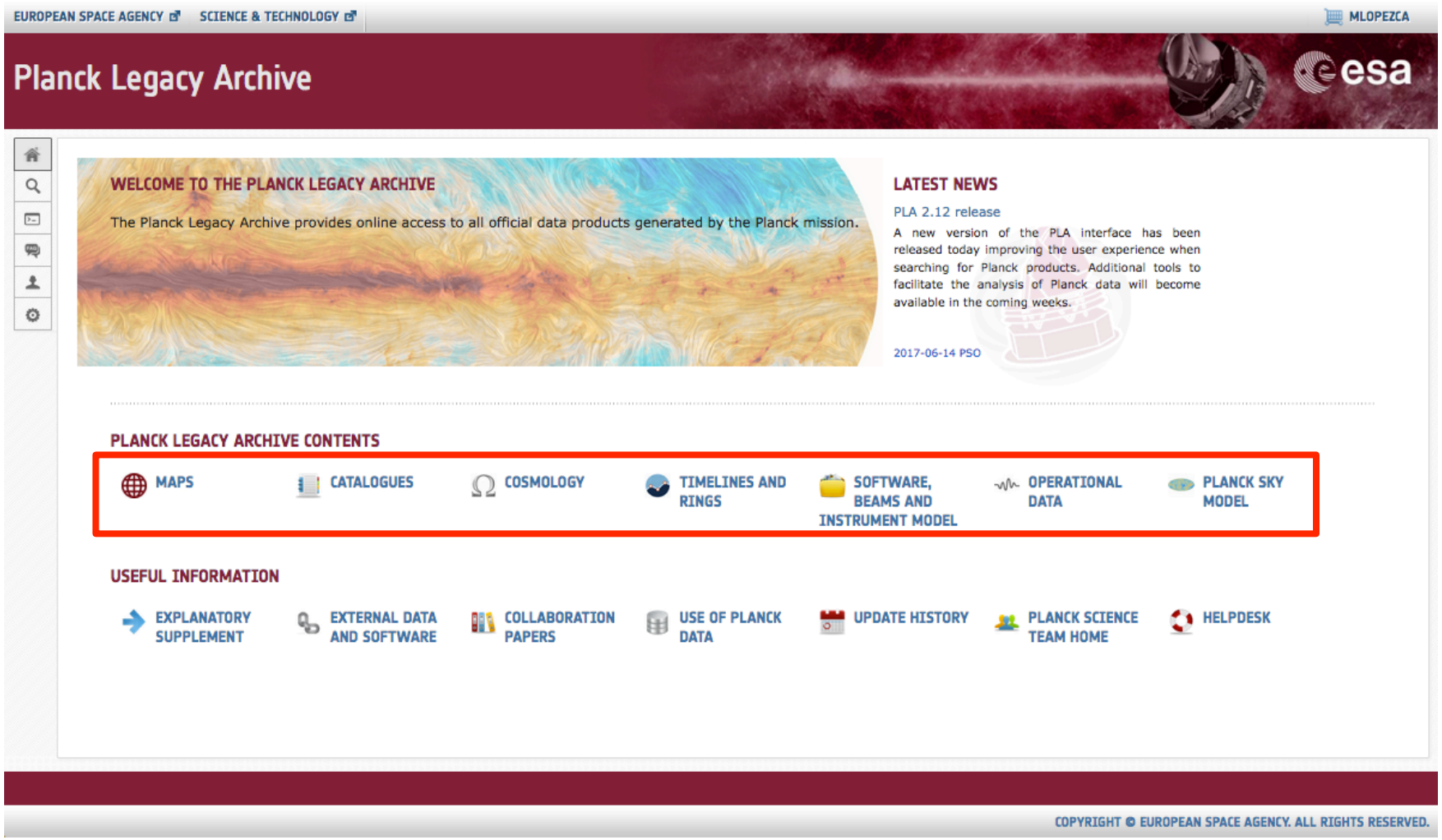
The Planck Legacy Archive

M. López-Caniego Planck Science Office ESA/ESAC



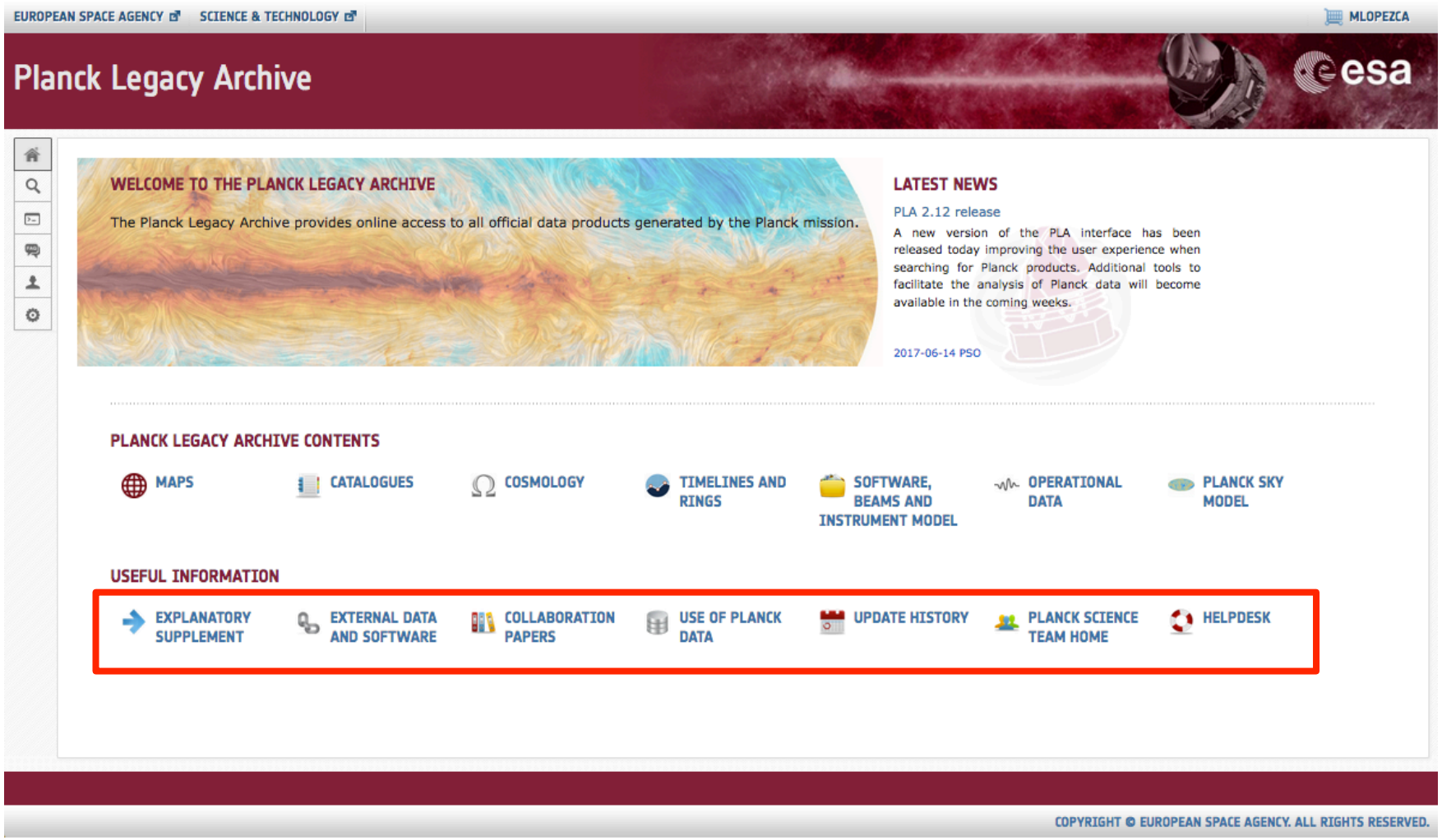
The Planck Legacy Archive

The PLA (**http://pla.esac.esa.int**) hosts the products from the Planck Mission.

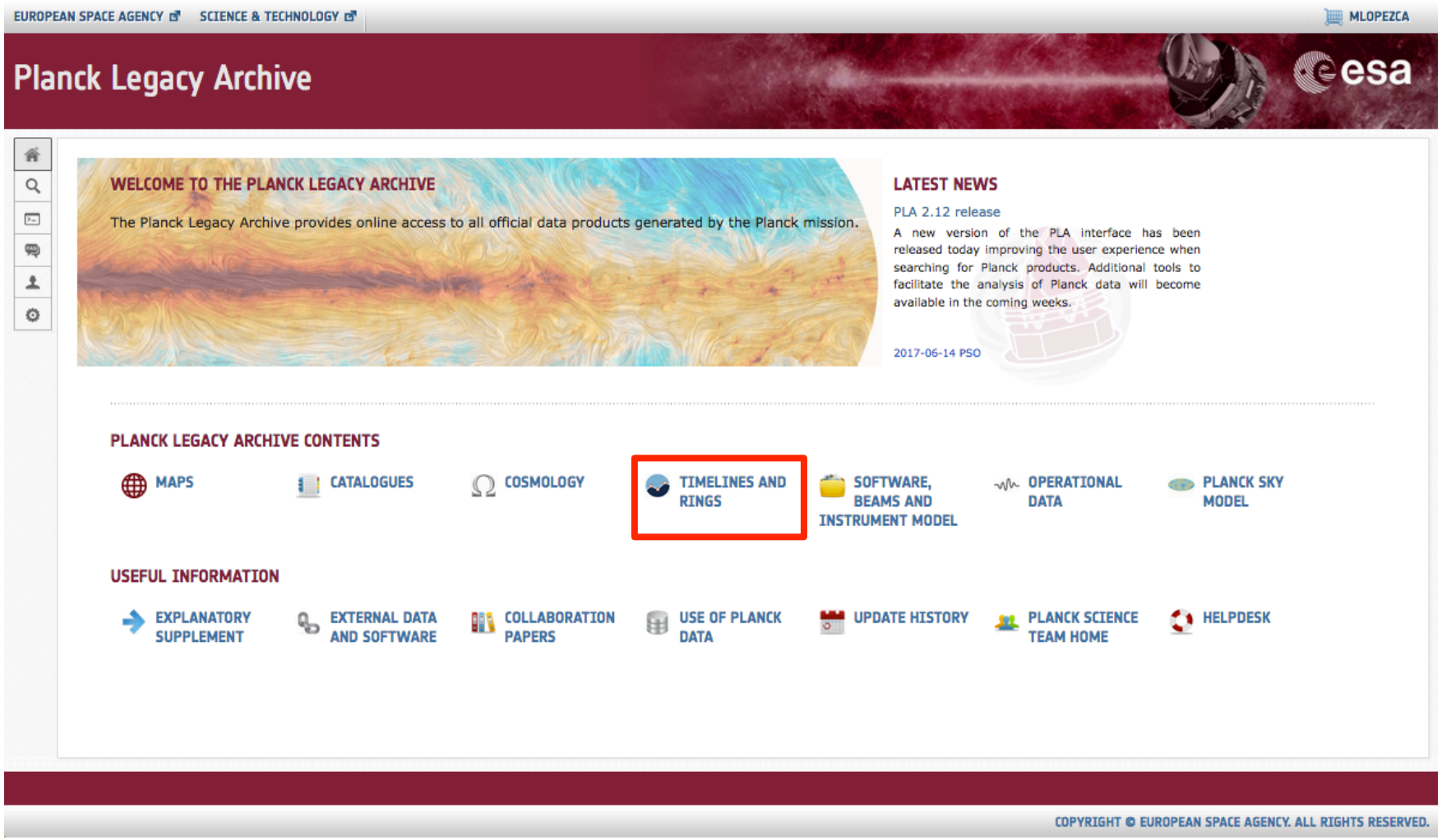


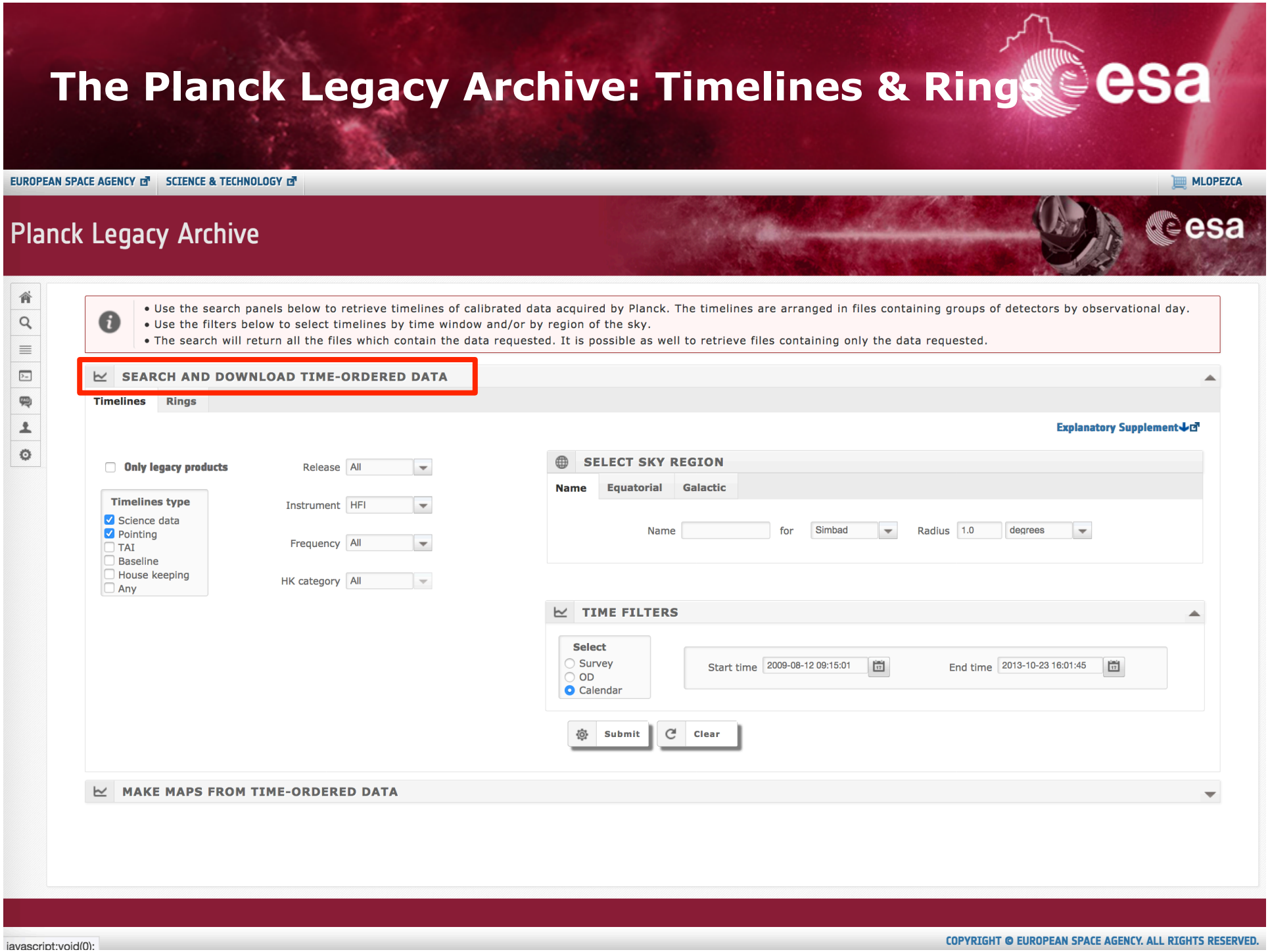
The Planck Legacy Archive

The PLA (**http://pla.esac.esa.int**) hosts the products from the Planck Mission.



The Planck Legacy Archive




The Planck Legacy Archive: Timelines & Rings
esa
EUROPEAN SPACE AGENCY
SCIENCE & TECHNOLOGY
MLOPEZCA
Planck Legacy Archive
esa
• Use the search panels below to retrieve timelines of calibrated data acquired by Planck. The timelines are arranged in files containing groups of detectors by observational day.
• Use the filters below to select timelines by time window and/or by region of the sky.
• The search will return all the files which contain the data requested. It is possible as well to retrieve files containing only the data requested.
SEARCH AND DOWNLOAD TIME-ORDERED DATA
Timelines
Rings
Explanatory Supplement
Only legacy products
Release All
Timelines type
Science data
Pointing
TAI
Baseline
House keeping
Any
Instrument HFI
Frequency All
HK category All
SELECT SKY REGION
Name
Equatorial
Galactic
Name for Simbad Radius 1.0 degrees
TIME FILTERS
Select
Survey
OD
Calendar
Start time 2009-08-12 09:15:01
End time 2013-10-23 16:01:45
Submit
Clear
MAKE MAPS FROM TIME-ORDERED DATA
javascript:void(0);
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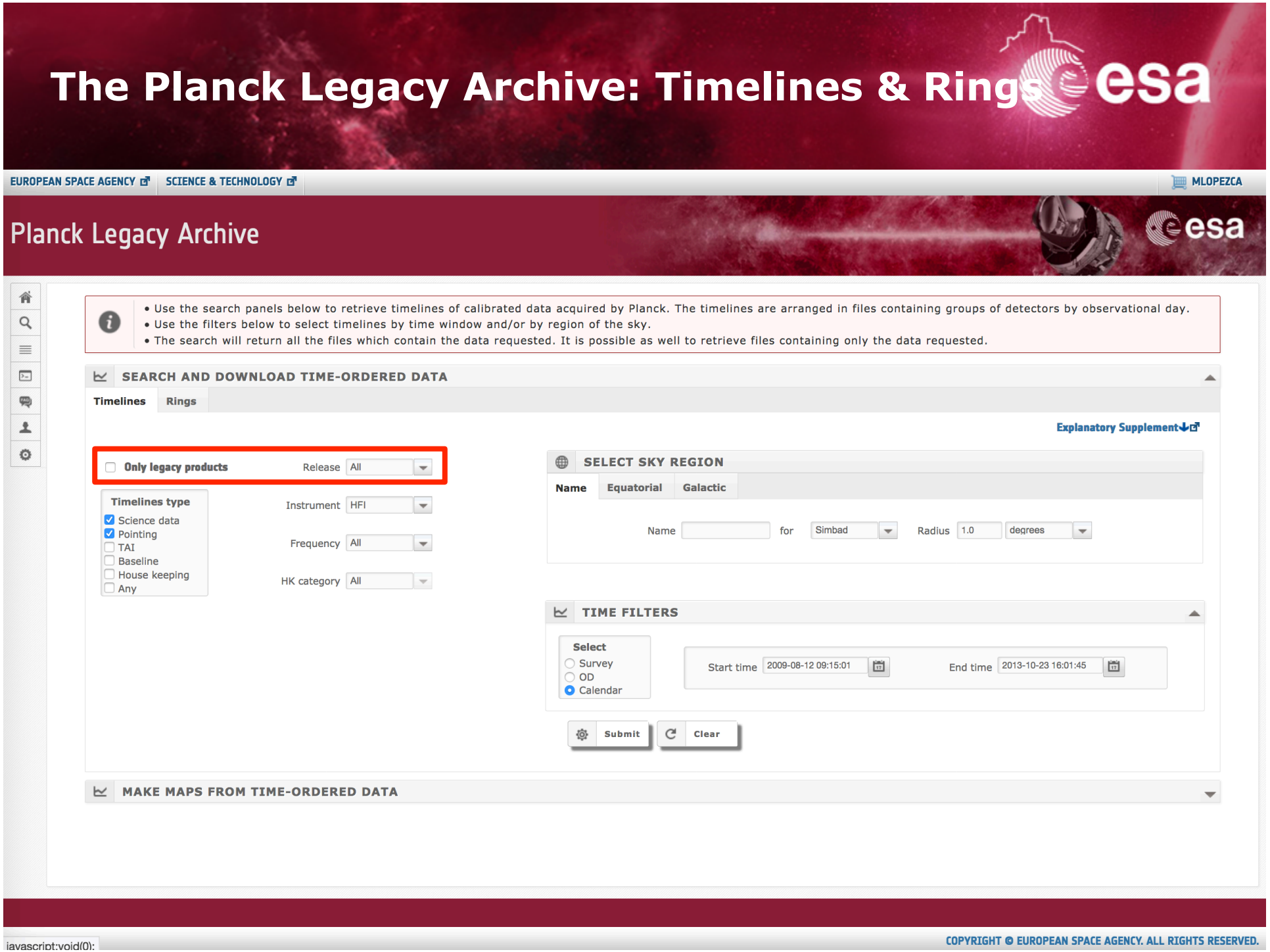
The Planck Legacy Archive: Timelines & Rings
esa
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MLOPEZCA
Planck Legacy Archive
esa
• Use the search panels below to retrieve timelines of calibrated data acquired by Planck. The timelines are arranged in files containing groups of detectors by observational day.
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SEARCH AND DOWNLOAD TIME-ORDERED DATA
Timelines
Rings
Explanatory Supplement
Only legacy products
Release All
Timelines type
Science data
Pointing
TAI
Baseline
House keeping
Any
Instrument HFI
Frequency All
HK category All
SELECT SKY REGION
Name
Equatorial
Galactic
Name for Simbad Radius 1.0 degrees
TIME FILTERS
Select
Survey
OD
Calendar
Start time 2009-08-12 09:15:01
End time 2013-10-23 16:01:45
Submit
Clear
MAKE MAPS FROM TIME-ORDERED DATA
javascript:void(0);
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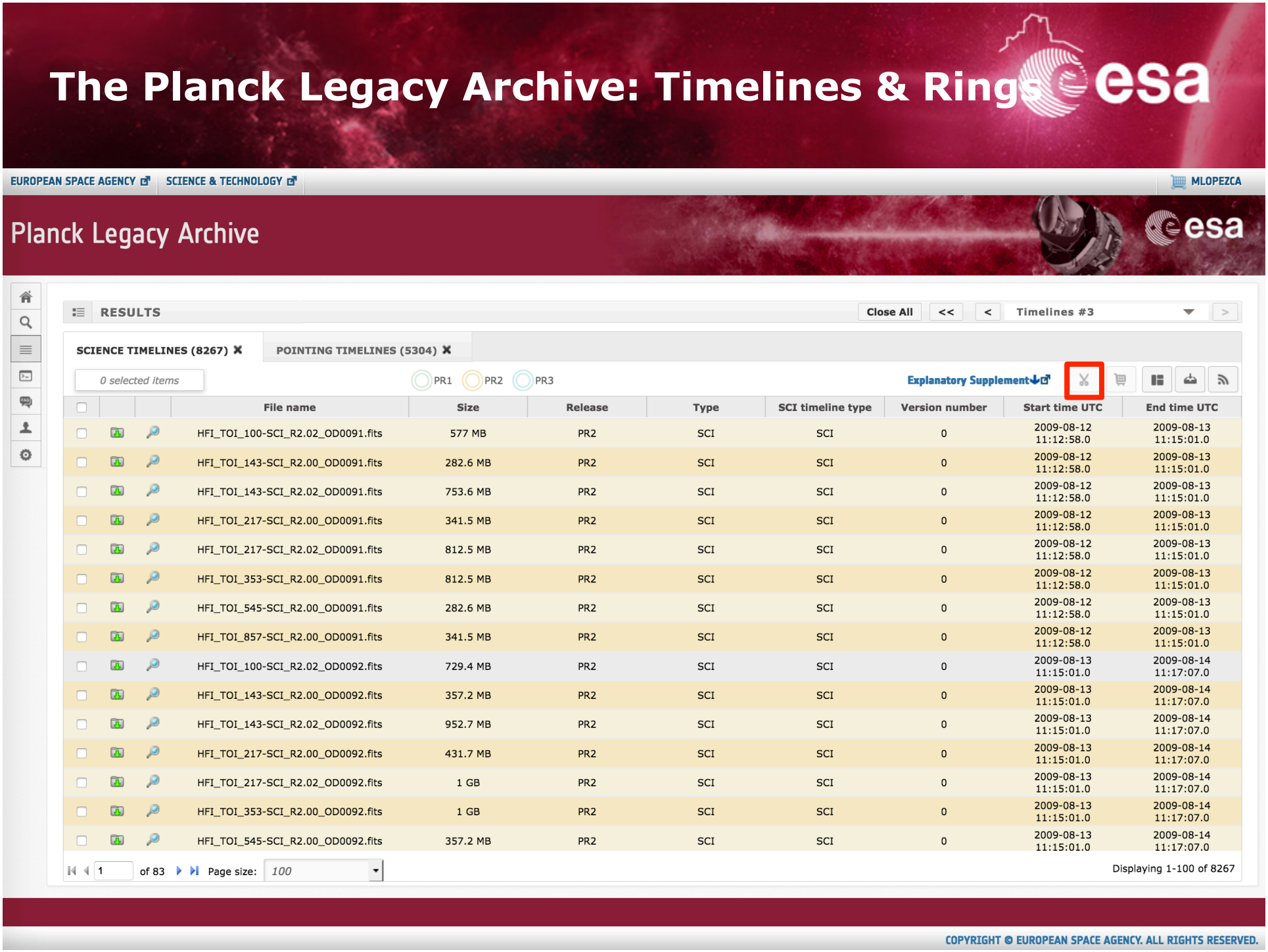
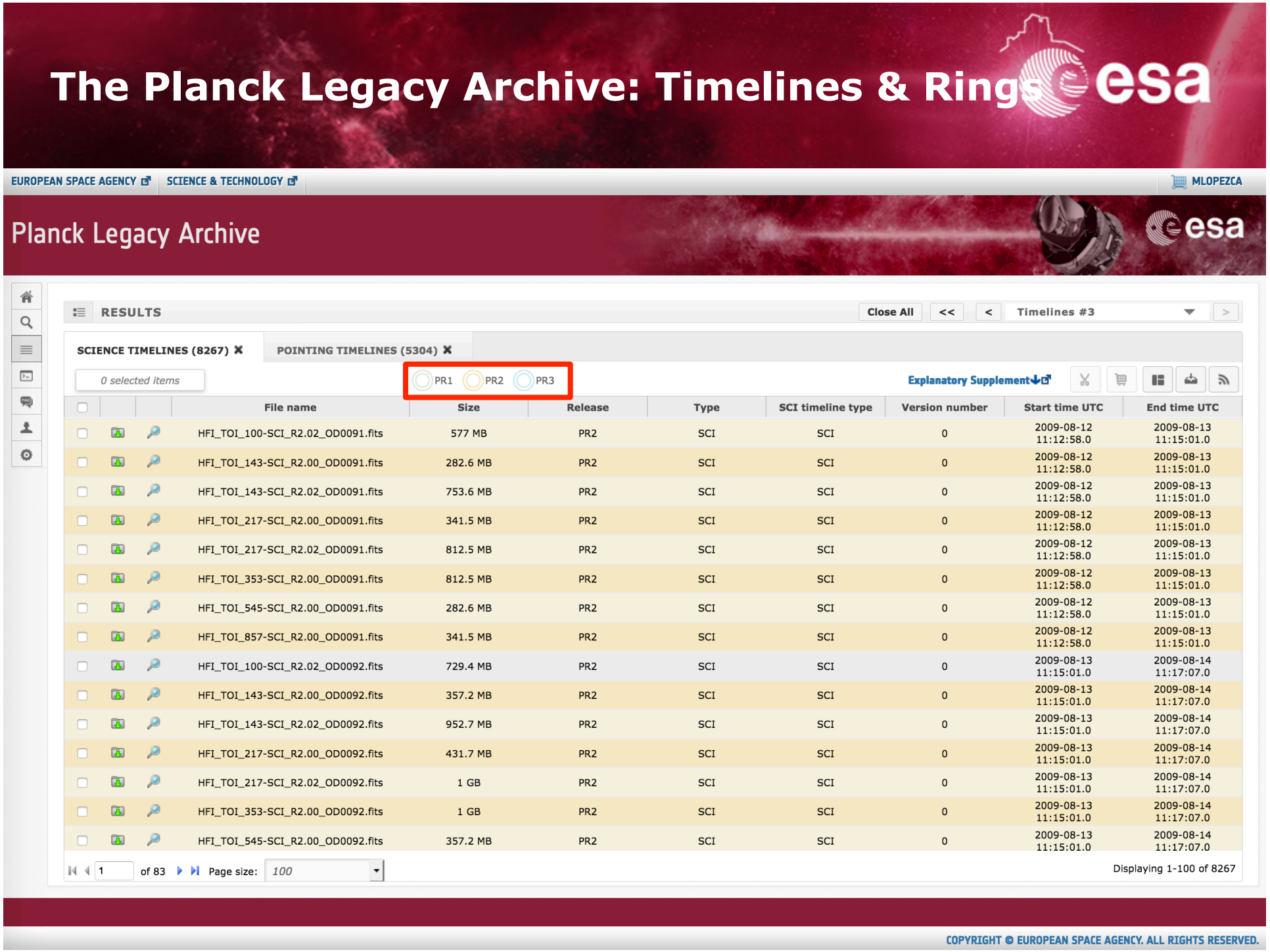
The Planck Legacy Archive: Timelines & Rings




The Planck Legacy Archive: Timelines & Rings
esa
EUROPEAN SPACE AGENCY
SCIENCE & TECHNOLOGY
MLOPEZCA
Planck Legacy Archive
esa
RESULTS
Close All
<<
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Timelines #3
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SCIENCE TIMELINES (8267)
POINTING TIMELINES (5304)
0 selected items
PR1
PR2
PR3
Explanatory Supplement
File name
Size
Release
Type
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Version number
Start time UTC
End time UTC
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HFI_TOI_217-SCI_R2.02_OD0091.fits 812.5 MB PR2 SCI SCI 0 2009-08-12 11:12:58.0 2009-08-13 11:15:01.0
HFI_TOI_353-SCI_R2.00_OD0091.fits 812.5 MB PR2 SCI SCI 0 2009-08-12 11:12:58.0 2009-08-13 11:15:01.0
HFI_TOI_545-SCI_R2.00_OD0091.fits 282.6 MB PR2 SCI SCI 0 2009-08-12 11:12:58.0 2009-08-13 11:15:01.0
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HFI_TOI_100-SCI_R2.02_OD0092.fits 729.4 MB PR2 SCI SCI 0 2009-08-13 11:15:01.0 2009-08-14 11:17:07.0
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HFI_TOI_143-SCI_R2.02_OD0092.fits 952.7 MB PR2 SCI SCI 0 2009-08-13 11:15:01.0 2009-08-14 11:17:07.0
HFI_TOI_217-SCI_R2.00_OD0092.fits 431.7 MB PR2 SCI SCI 0 2009-08-13 11:15:01.0 2009-08-14 11:17:07.0
HFI_TOI_217-SCI_R2.02_OD0092.fits 1 GB PR2 SCI SCI 0 2009-08-13 11:15:01.0 2009-08-14 11:17:07.0
HFI_TOI_353-SCI_R2.00_OD0092.fits 1 GB PR2 SCI SCI 0 2009-08-13 11:15:01.0 2009-08-14 11:17:07.0
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1 of 83
Page size: 100
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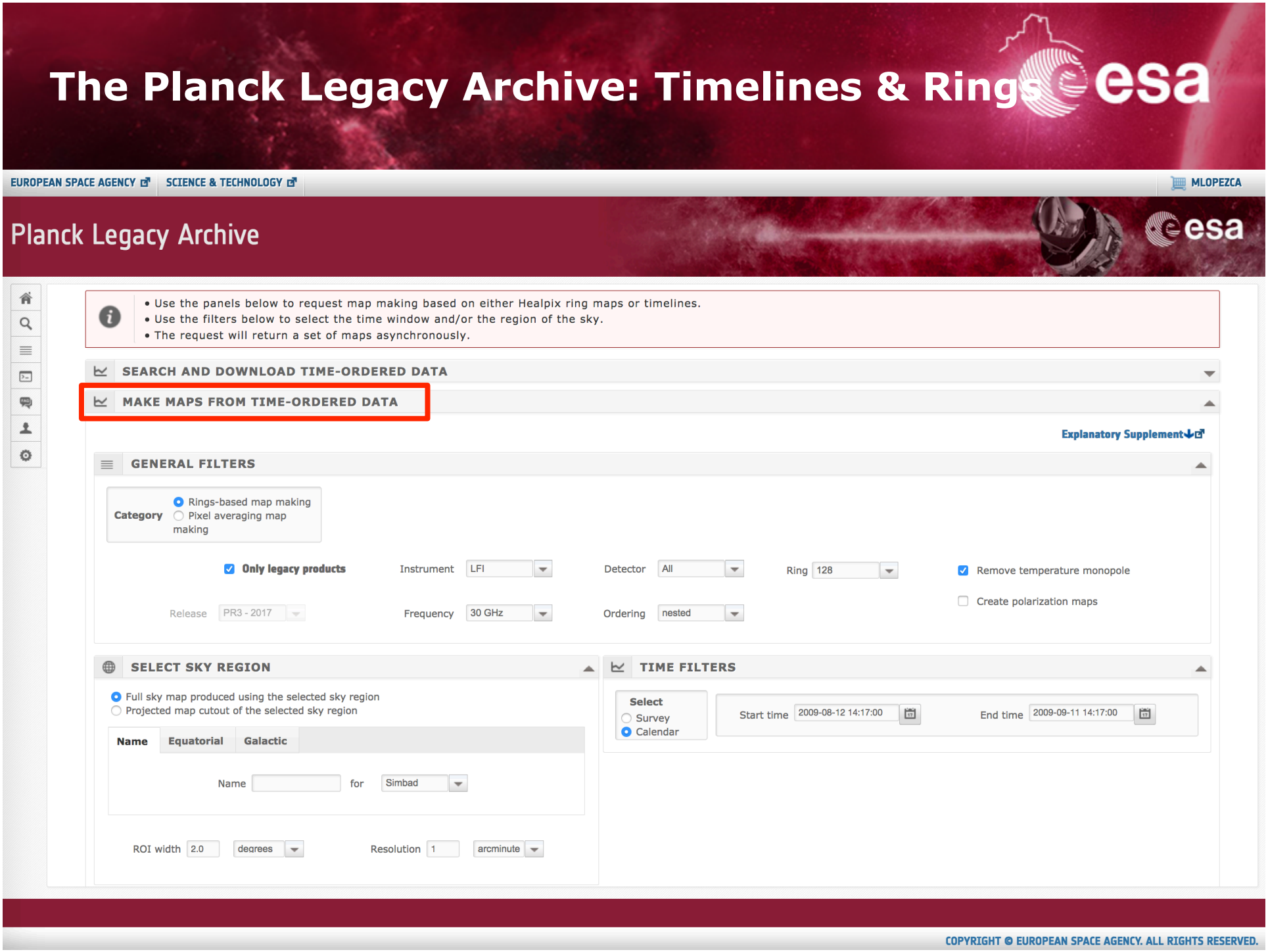
The Planck Legacy Archive: Timelines & Rings
esa
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SCIENCE & TECHNOLOGY
MLOPEZCA
Planck Legacy Archive
esa
• Use the panels below to request map making based on either Healpix ring maps or timelines.
• Use the filters below to select the time window and/or the region of the sky.
• The request will return a set of maps asynchronously.
SEARCH AND DOWNLOAD TIME-ORDERED DATA
MAKE MAPS FROM TIME-ORDERED DATA
Explanatory Supplement
GENERAL FILTERS
Category
Rings-based map making
Pixel averaging map making
Only legacy products
Instrument
LFI
Detector
All
Ring
128
Remove temperature monopole
Release
PR3 - 2017
Frequency
30 GHz
Ordering
nested
Create polarization maps
SELECT SKY REGION
Full sky map produced using the selected sky region
Projected map cutout of the selected sky region
Name
Equatorial
Galactic
Name
for
Simbad
ROI width
2.0
degrees
Resolution
1
arcminute
TIME FILTERS
Select
Survey
Calendar
Start time
2009-08-12 14:17:00
End time
2009-09-11 14:17:00
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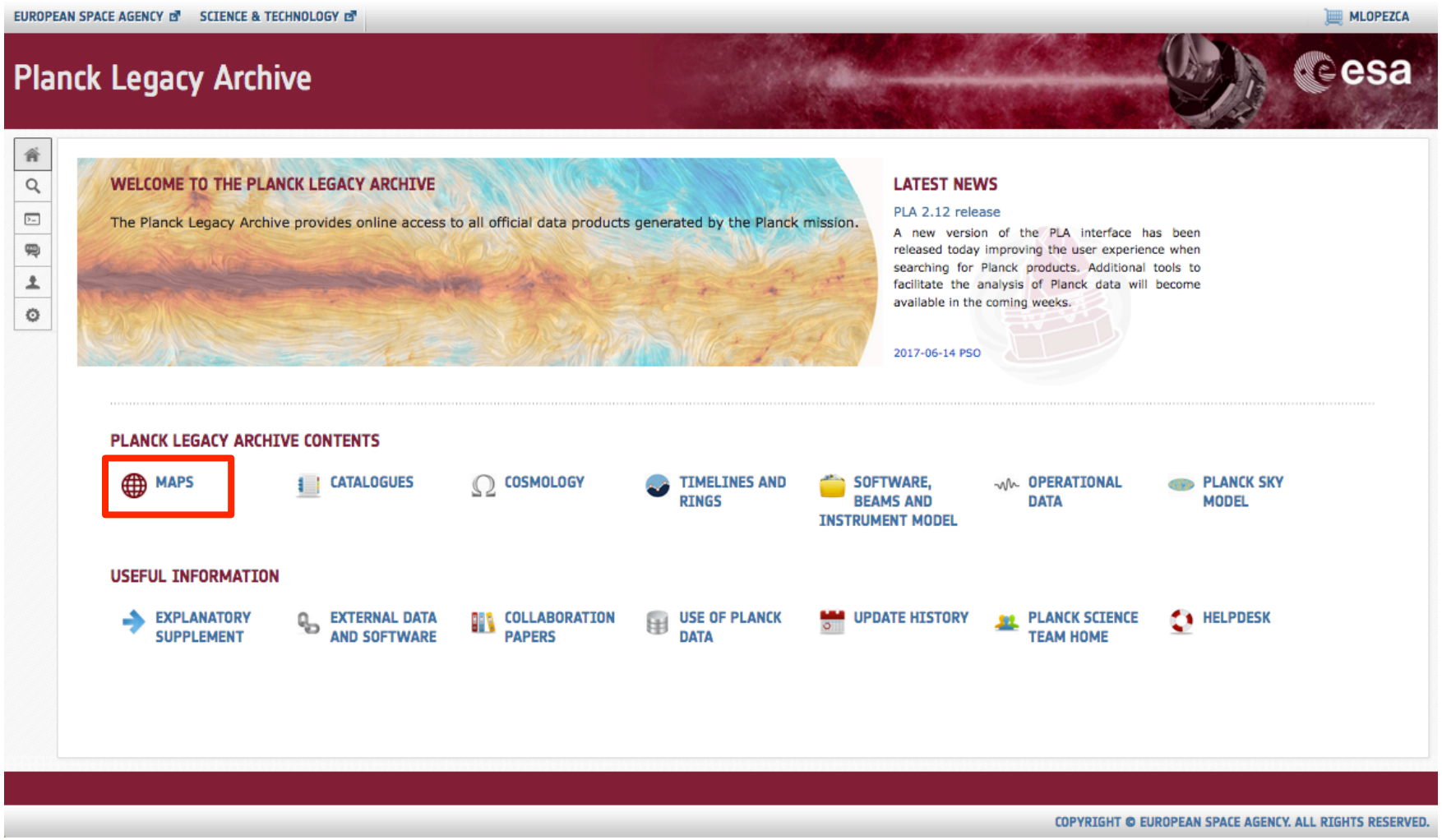
The Planck Legacy Archive



The Planck Legacy Archive: Frequency Maps

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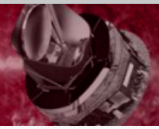
Planck Legacy Archive



Search through all maps stored in the Planck Legacy Archive.

- Use the **matrix** for quick downloads and the **advanced search** facility to perform map operations and/or to download specific products.
- Use **Aladin Lite** ( ) to visualize the maps, or send them to external applications ( ).
- From the advanced search, **click** on the ( ) icon to extract a region from all-sky maps.
- **Click** on the ( ) icon to extract a region from all-sky maps.
- **Click** on the ( ) icon to carry out operations (change units, colour correct, transform bandpass, etc) on the selected map(s) or sub-map(s).

MAPS

Frequency maps | CMB maps | Foreground maps | Correction maps | Masks | Simulations | DatesObs maps | External maps

Explanatory Supplement

Only legacy products Release PR2 - 2015

Light maps | Single-frequency | Multi-detector | Single-detector

BPL Corrected
BPL Uncorrected

	30GHz NS256	44GHz NS256	70GHz NS256	100GHz NS2048	143GHz NS2048	217GHz NS2048	353GHz NS2048	545GHz NS2048	857GHz NS2048
FULL MISSION	(9 MB)	(9 MB)	(9 MB)	(576 MB)	(576 MB)	(576 MB)	(576 MB)	(192 MB)	(192 MB)

ADVANCED SEARCH & MAP OPERATIONS

OPERATIONS ON RESTRICTED MAP SETS

The Planck Legacy Archive: CMB Maps

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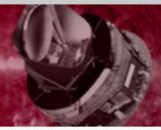
Planck Legacy Archive



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MAPS

Frequency maps | **CMB maps** | Foreground maps | Correction maps | Masks | Simulations | DatesObs maps | External maps

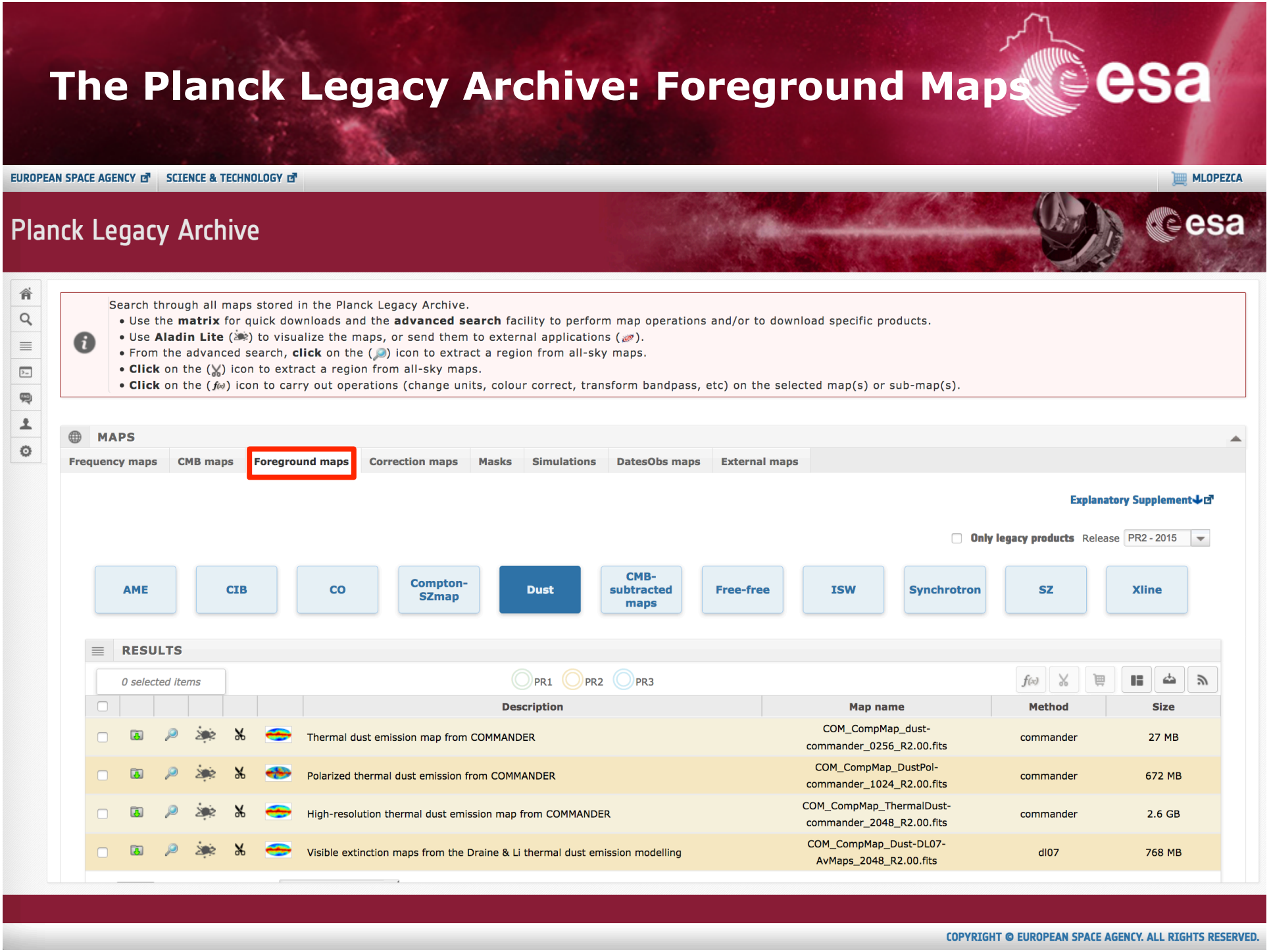
Explanatory Supplement

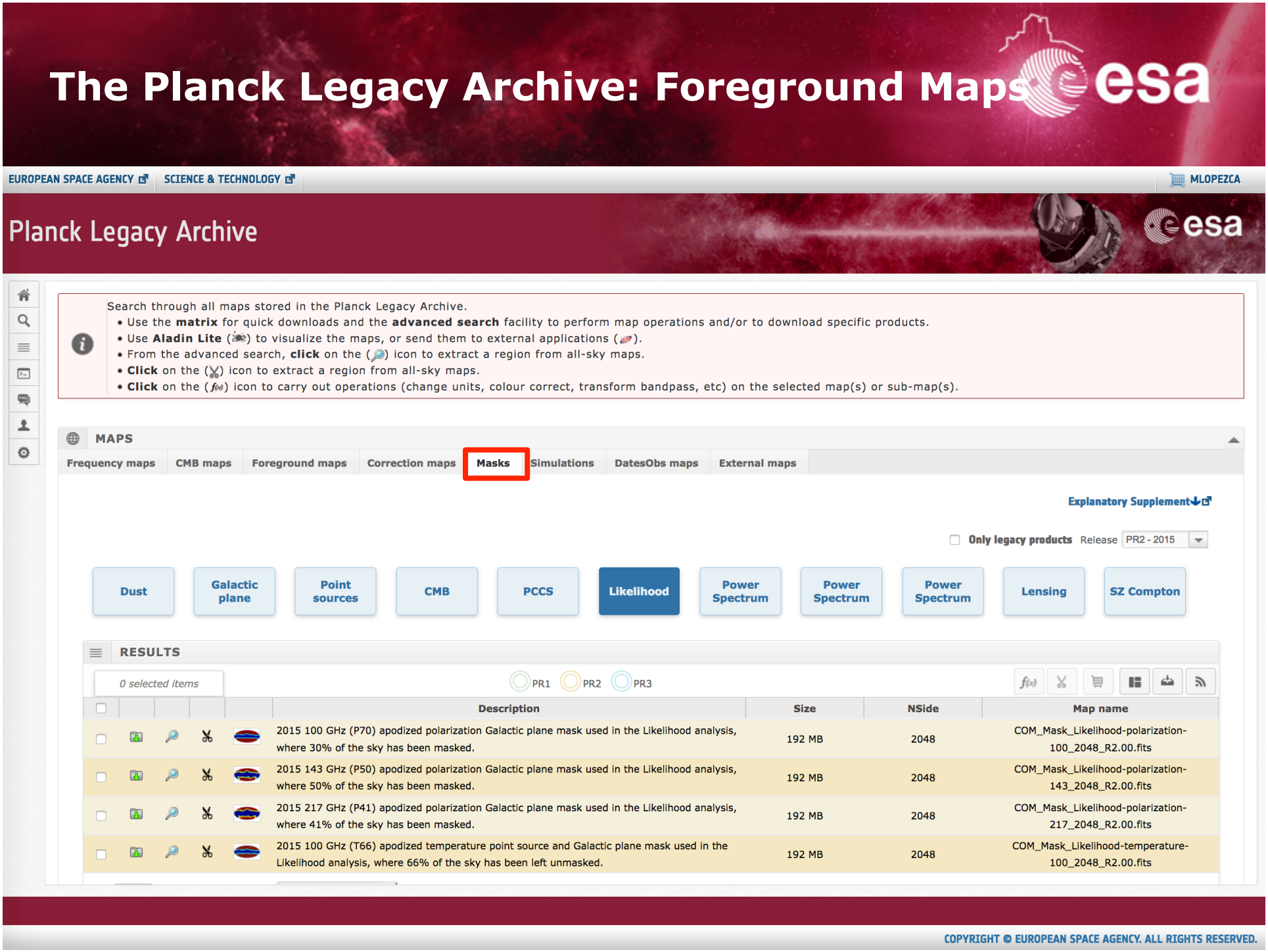
Only legacy products Release PR2 - 2015

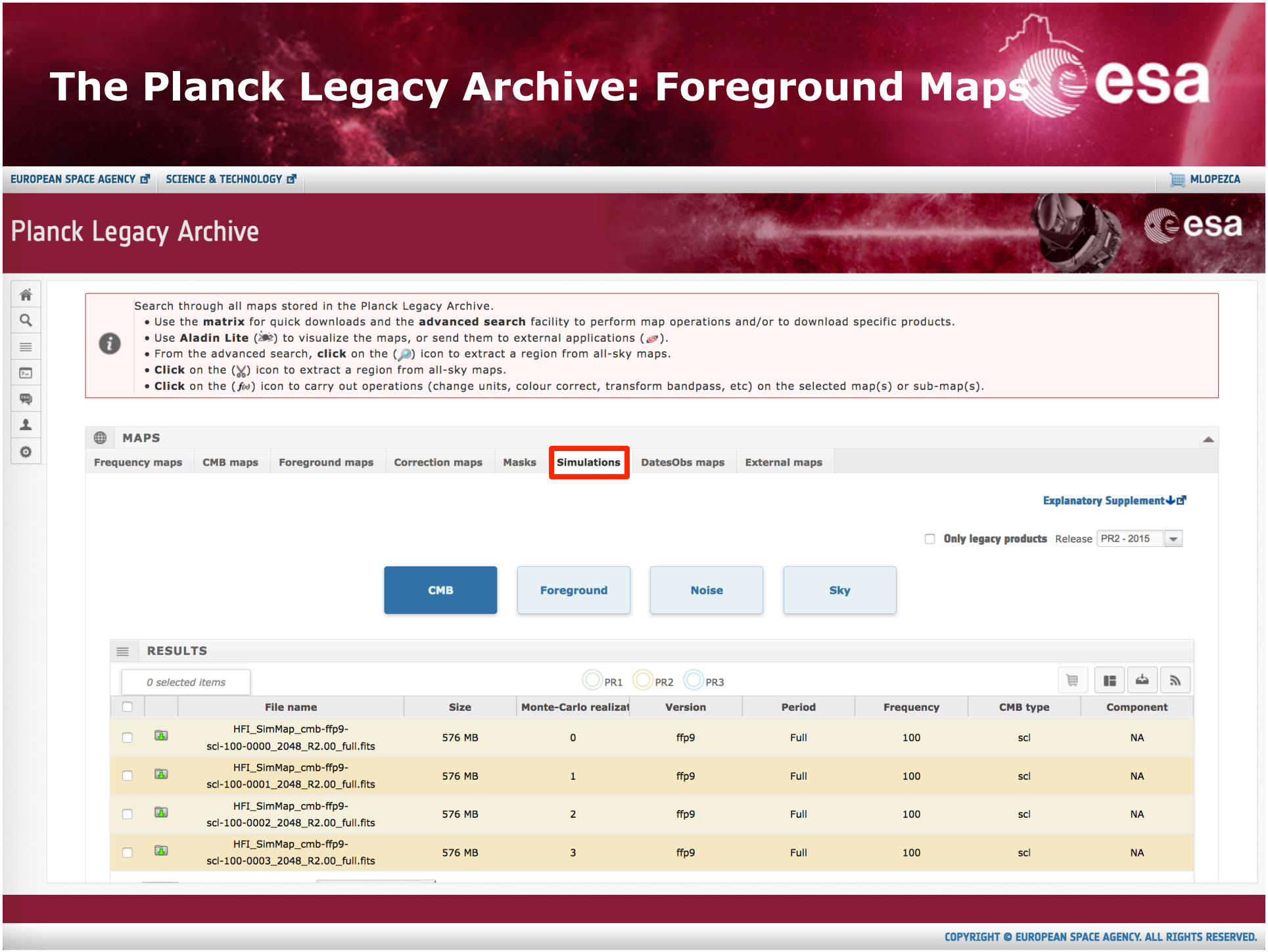
SMICA | Commander | NILC | SEVEM | Fgsub-sevem | Common masks

	IQU NS1024	I NS2048
FULL MISSION	(168 MB)	(240 MB)
FULL MISSION RINGHALF-1	(144 MB)	(192 MB)
FULL MISSION RINGHALF-2	(144 MB)	(192 MB)
HALF MISSION-1	(144 MB)	(192 MB)
HALF MISSION-2	(144 MB)	(192 MB)

The Planck Legacy Archive: Foreground Maps







The Planck Legacy Archive: External Maps

Planck Legacy Archive

Search through all maps stored in the Planck Legacy Archive.

- Use the **matrix** for quick downloads and the **advanced search** facility to perform map operations and/or to download specific products.
- Use **Aladin Lite** ( ) to visualize the maps, or send them to external applications ( ).
- From the advanced search, **click** on the ( ) icon to extract a region from all-sky maps.
- **Click** on the ( ) icon to extract a region from all-sky maps.
- **Click** on the ( ) icon to carry out operations (change units, colour correct, transform bandpass, etc) on the selected map(s) or sub-map(s).

MAPS

Frequency maps | CMB maps | Foreground maps | Correction maps | Masks | Simulations | DatesObs maps | **External maps**

RESULTS

0 selected items

PR1 PR2 PR3

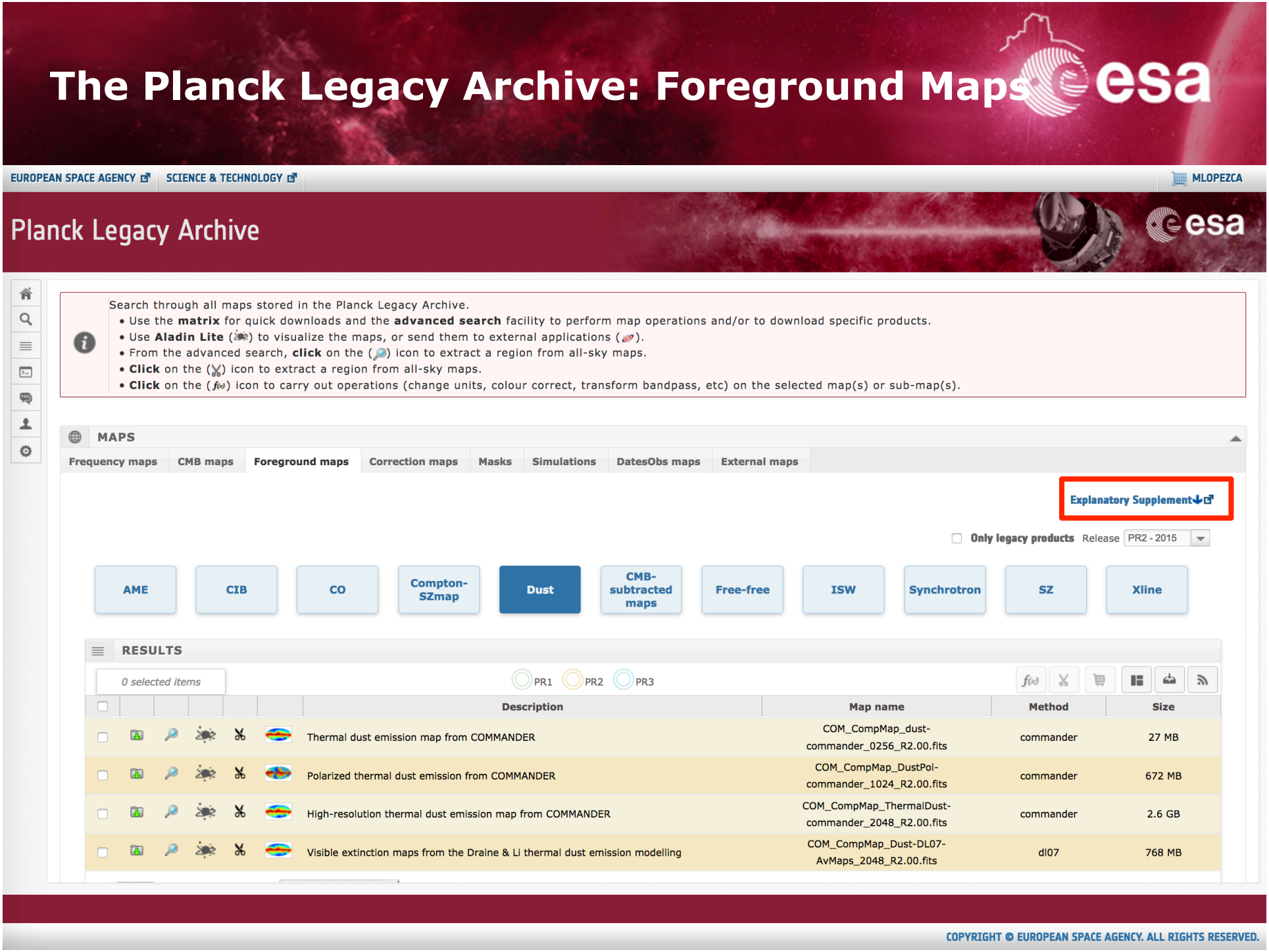
Description	Map name	NSide	Size
Improved Haslam et al. 408 MHz radio continuum all-sky map desourced and destriped (http://www.jb.man.ac.uk/research/cosmos/haslam_map/)	haslam408_dsds_Remazeilles2014.fits	512	12 MB
Combined IRIS+SDF 100 microns map (as described in Planck 2014 results. XI. All-sky model of thermal dust emission, A&A, 2016, A11, 37)	IRIS_combined_SFD_really_nohole_4_2048.fi	2048	192 MB
Combined IRIS+SDF 100 microns map (as described in Planck 2014 results. XI. All-sky model of thermal dust emission, A&A, 2016, A11, 37. Note that the point sources have been removed from this map ...	IRIS_combined_SFD_really_nohole_nosource	2048	192 MB
IRIS 12 microns full resolution infrared maps (Improved Reprocessing of the IRAS Survey;	IRIS_nohole_1_2048.fits	2048	192 MB

1 of 1 Page size: 100 Displaying 1-13 of 13

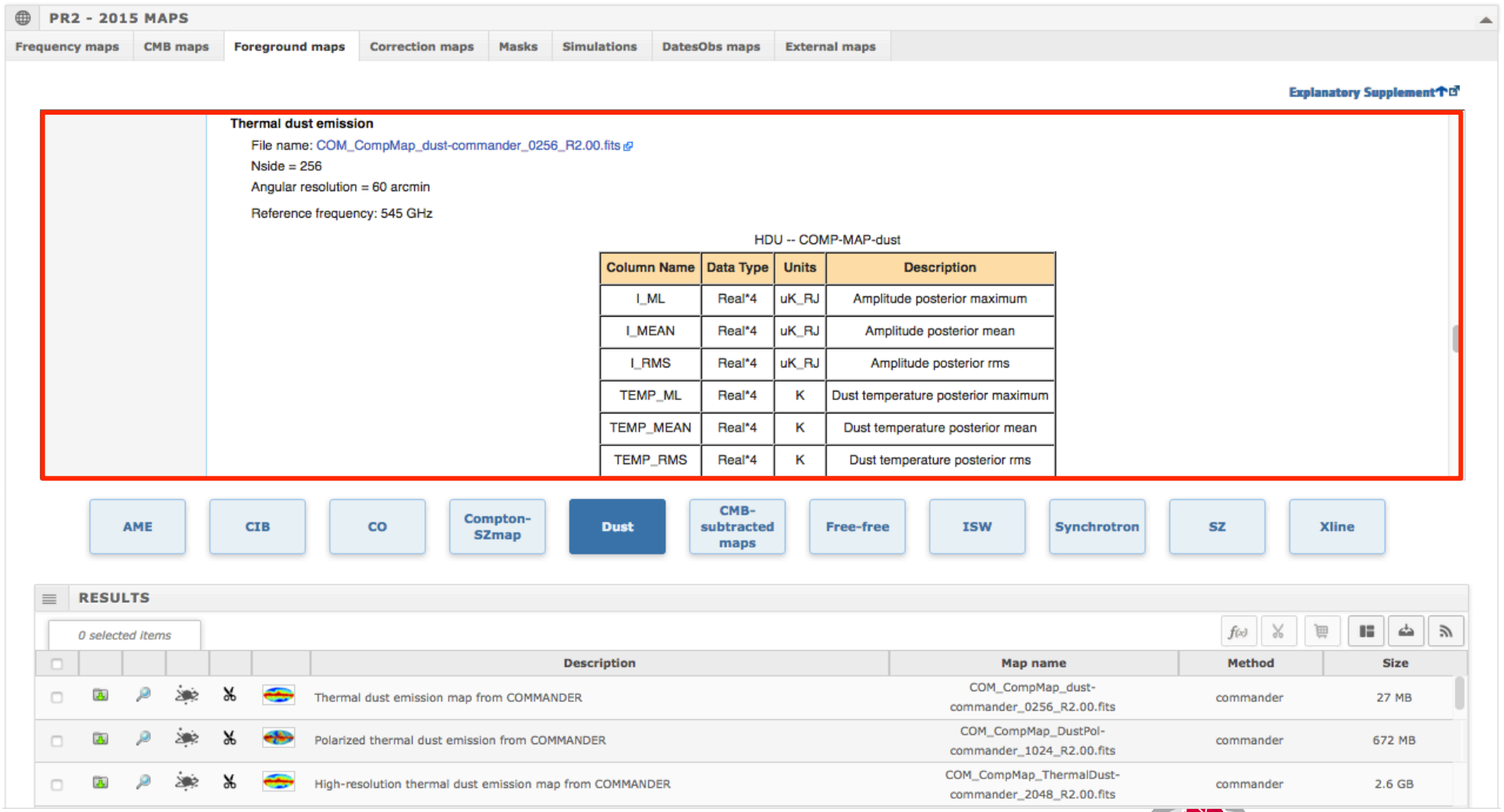
ADVANCED SEARCH & MAP OPERATIONS

OPERATIONS ON RESTRICTED MAP SETS

The Planck Legacy Archive: Foreground Maps



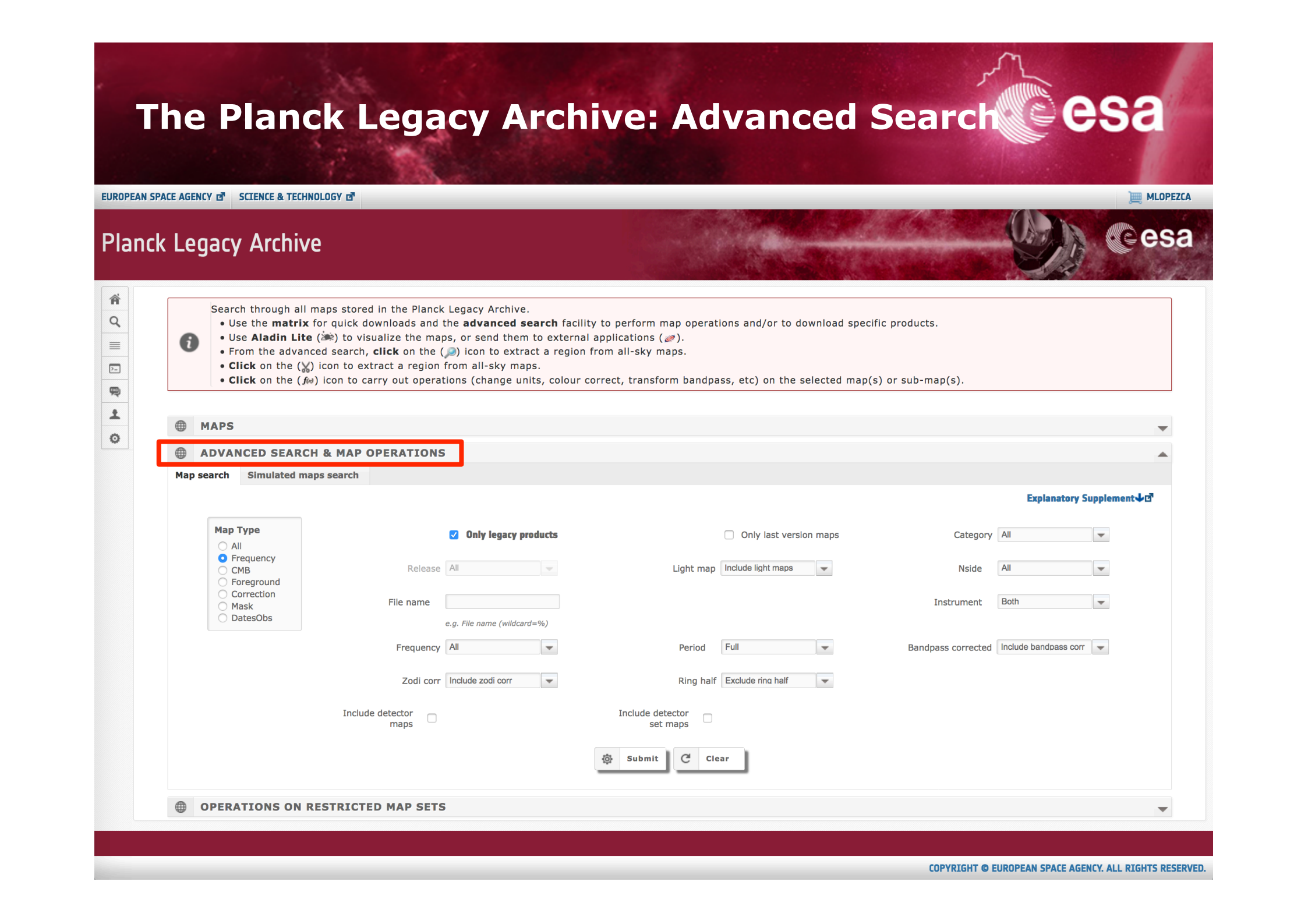
The Planck Legacy Archive



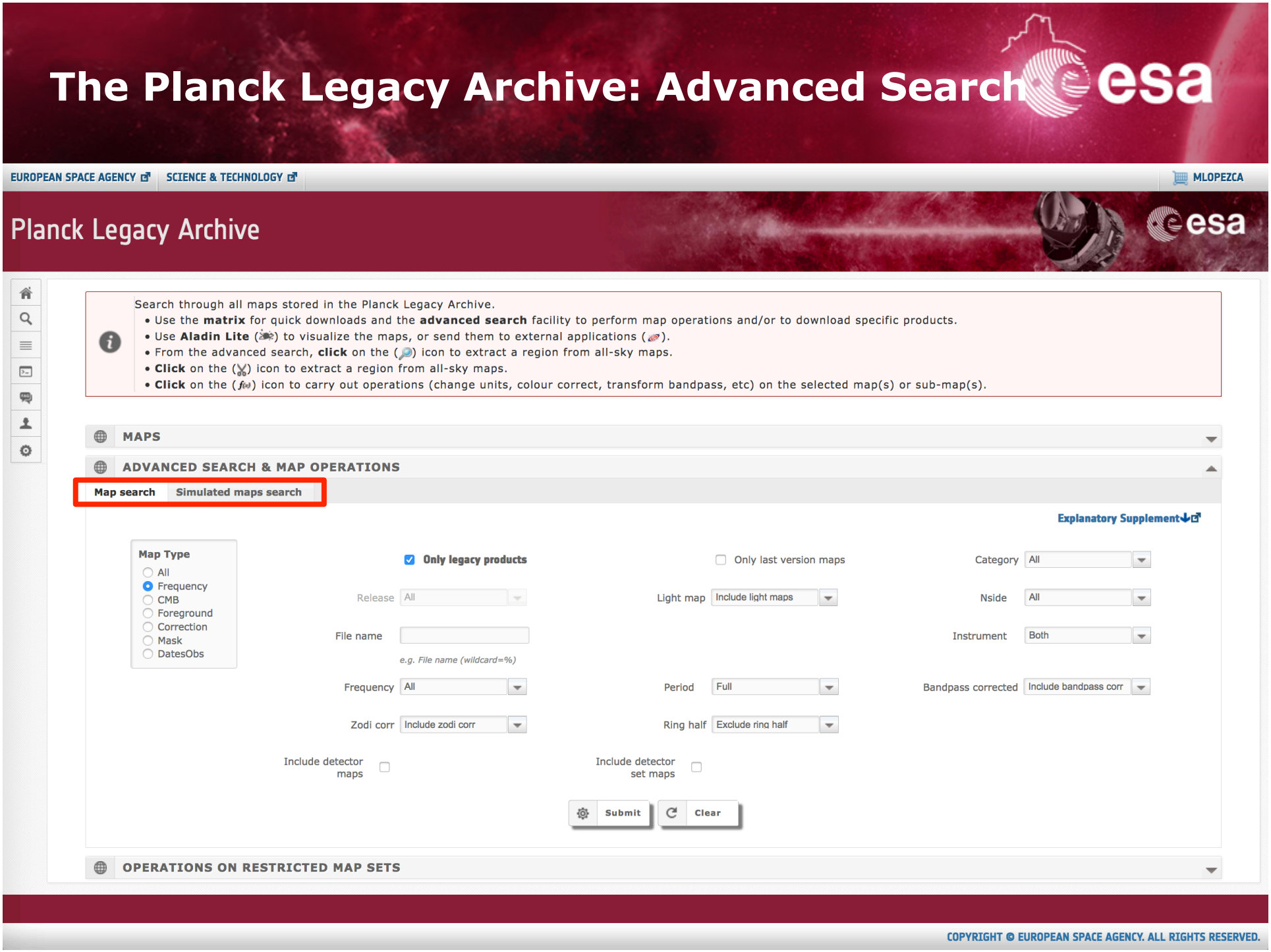
planck

European Space Agency

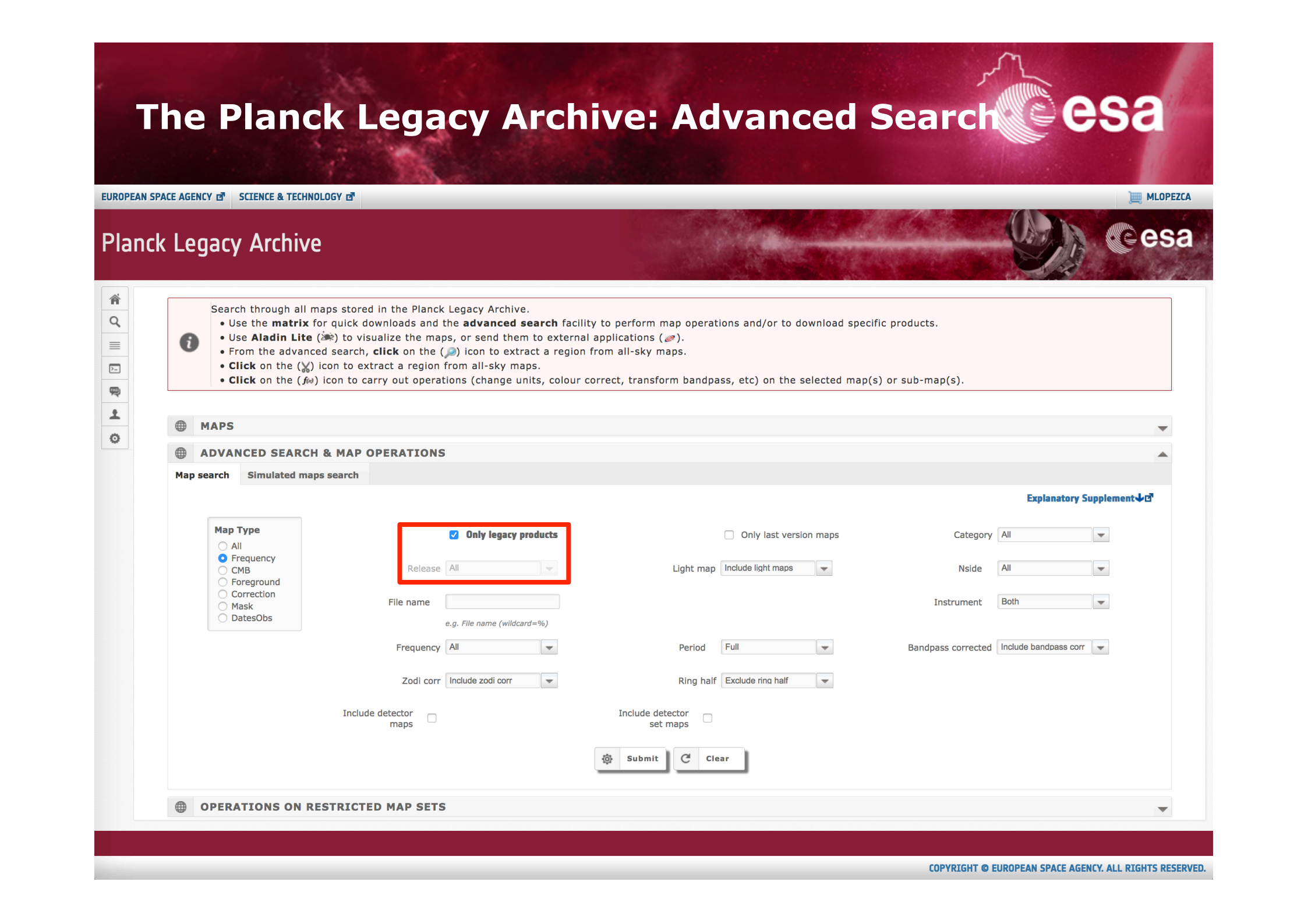
The Planck Legacy Archive: Advanced Search

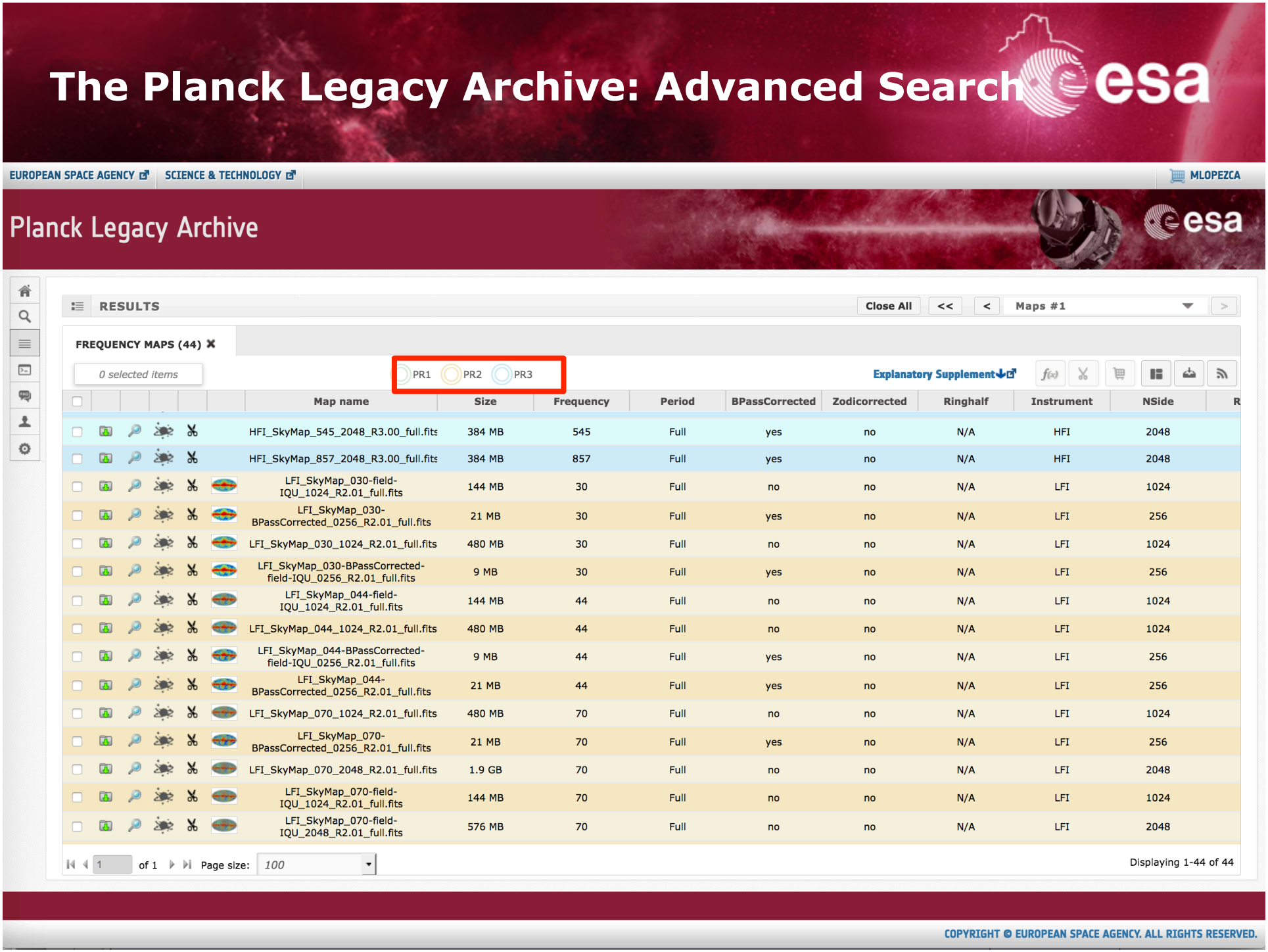


The Planck Legacy Archive: Advanced Search



The Planck Legacy Archive: Advanced Search




The Planck Legacy Archive: Advanced Search
esa
EUROPEAN SPACE AGENCY
SCIENCE & TECHNOLOGY
MLOPEZCA
Planck Legacy Archive
esa
RESULTS
Close All
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Maps #1
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FREQUENCY MAPS (44)
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PR1
PR2
PR3
Explanatory Supplement
Map name
Size
Frequency
Period
BPassCorrected
Zodicorrected
Ringhalf
Instrument
NSide
HFI_SkyMap_545_2048_R3.00_full.fits 384 MB 545 Full yes no N/A HFI 2048
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LFI_SkyMap_030-BPassCorrected_0256_R2.01_full.fits 21 MB 30 Full yes no N/A LFI 256
LFI_SkyMap_030_1024_R2.01_full.fits 480 MB 30 Full no no N/A LFI 1024
LFI_SkyMap_030-BPassCorrected-field-IQU_0256_R2.01_full.fits 9 MB 30 Full yes no N/A LFI 256
LFI_SkyMap_044-field-IQU_1024_R2.01_full.fits 144 MB 44 Full no no N/A LFI 1024
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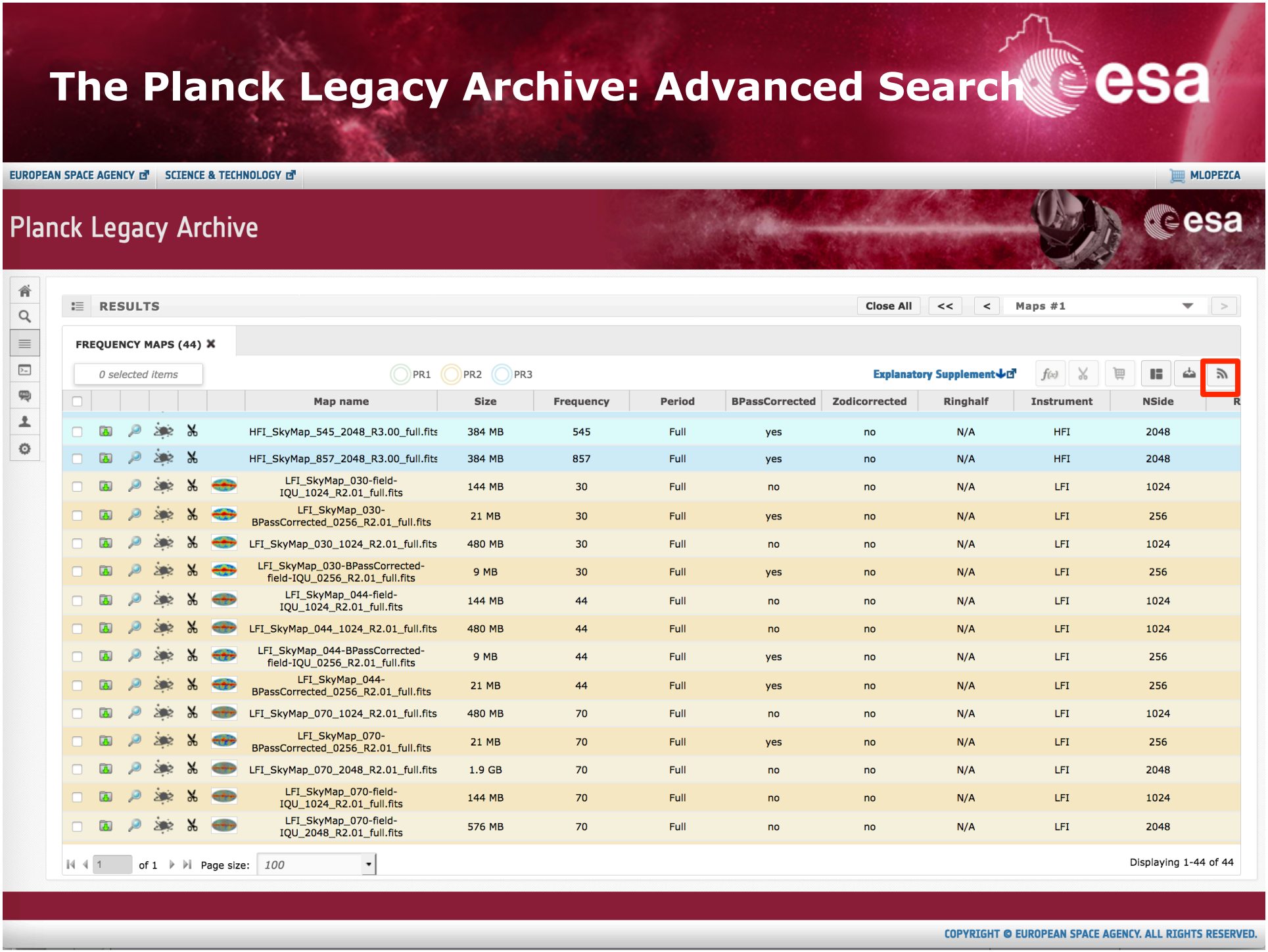
The Planck Legacy Archive: Advanced Search
esa
EUROPEAN SPACE AGENCY
SCIENCE & TECHNOLOGY
MLOPEZCA
Planck Legacy Archive
esa
RESULTS
Close All
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Maps #1
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FREQUENCY MAPS (44)
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PR1
PR2
PR3
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Size
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Period
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Zodicorrected
Ringhalf
Instrument
NSide
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HFI_SkyMap_857_2048_R3.00_full.fits 384 MB 857 Full yes no N/A HFI 2048
LFI_SkyMap_030-field-IQU_1024_R2.01_full.fits 144 MB 30 Full no no N/A LFI 1024
LFI_SkyMap_030-BPassCorrected_0256_R2.01_full.fits 21 MB 30 Full yes no N/A LFI 256
LFI_SkyMap_030_1024_R2.01_full.fits 480 MB 30 Full no no N/A LFI 1024
LFI_SkyMap_030-BPassCorrected-field-IQU_0256_R2.01_full.fits 9 MB 30 Full yes no N/A LFI 256
LFI_SkyMap_044-field-IQU_1024_R2.01_full.fits 144 MB 44 Full no no N/A LFI 1024
LFI_SkyMap_044_1024_R2.01_full.fits 480 MB 44 Full no no N/A LFI 1024
LFI_SkyMap_044-BPassCorrected-field-IQU_0256_R2.01_full.fits 9 MB 44 Full yes no N/A LFI 256
LFI_SkyMap_044-BPassCorrected_0256_R2.01_full.fits 21 MB 44 Full yes no N/A LFI 256
LFI_SkyMap_070_1024_R2.01_full.fits 480 MB 70 Full no no N/A LFI 1024
LFI_SkyMap_070-BPassCorrected_0256_R2.01_full.fits 21 MB 70 Full yes no N/A LFI 256
LFI_SkyMap_070_2048_R2.01_full.fits 1.9 GB 70 Full no no N/A LFI 2048
LFI_SkyMap_070-field-IQU_1024_R2.01_full.fits 144 MB 70 Full no no N/A LFI 1024
LFI_SkyMap_070-field-IQU_2048_R2.01_full.fits 576 MB 70 Full no no N/A LFI 2048
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Displaying 1-44 of 44
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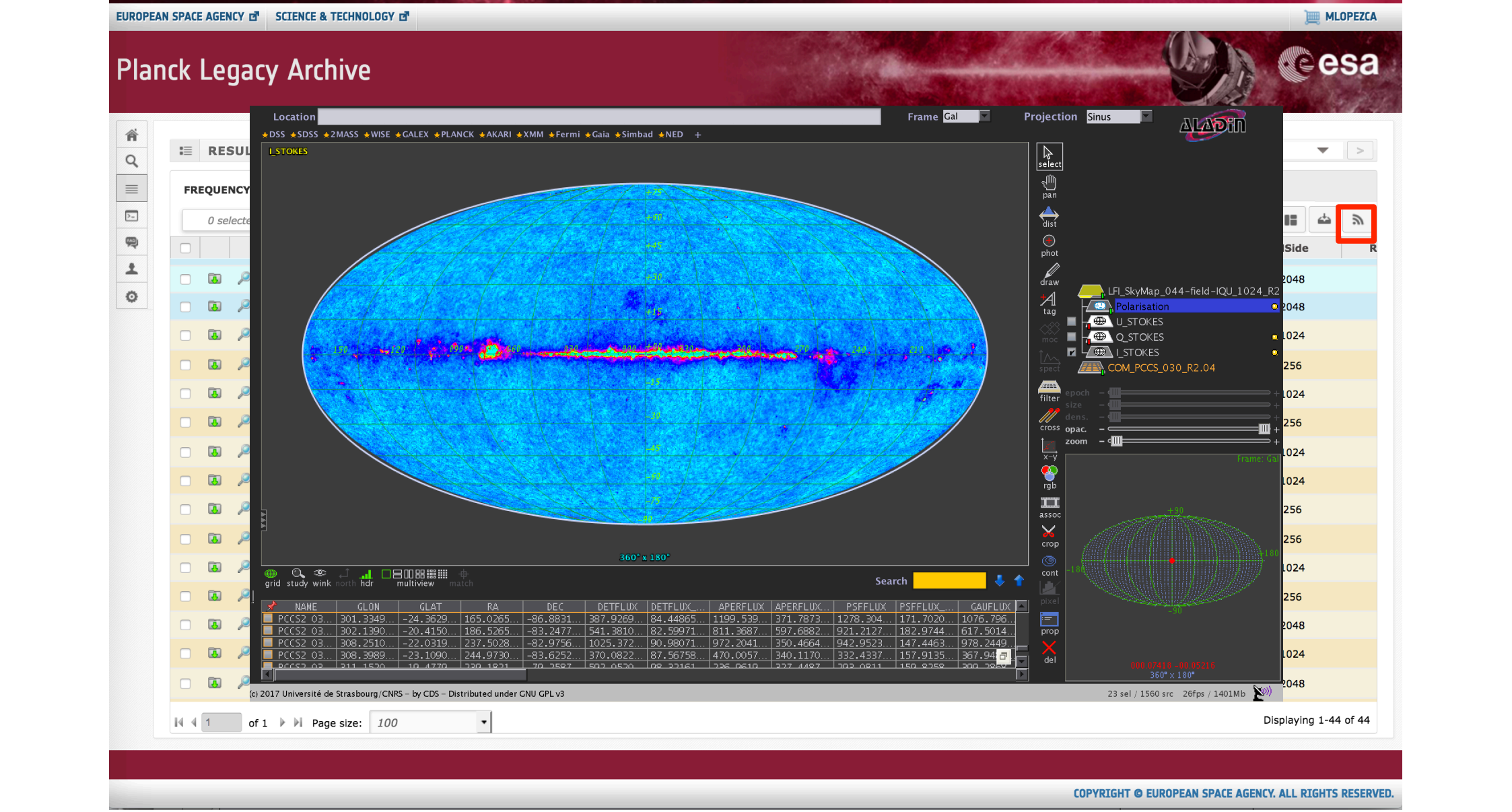
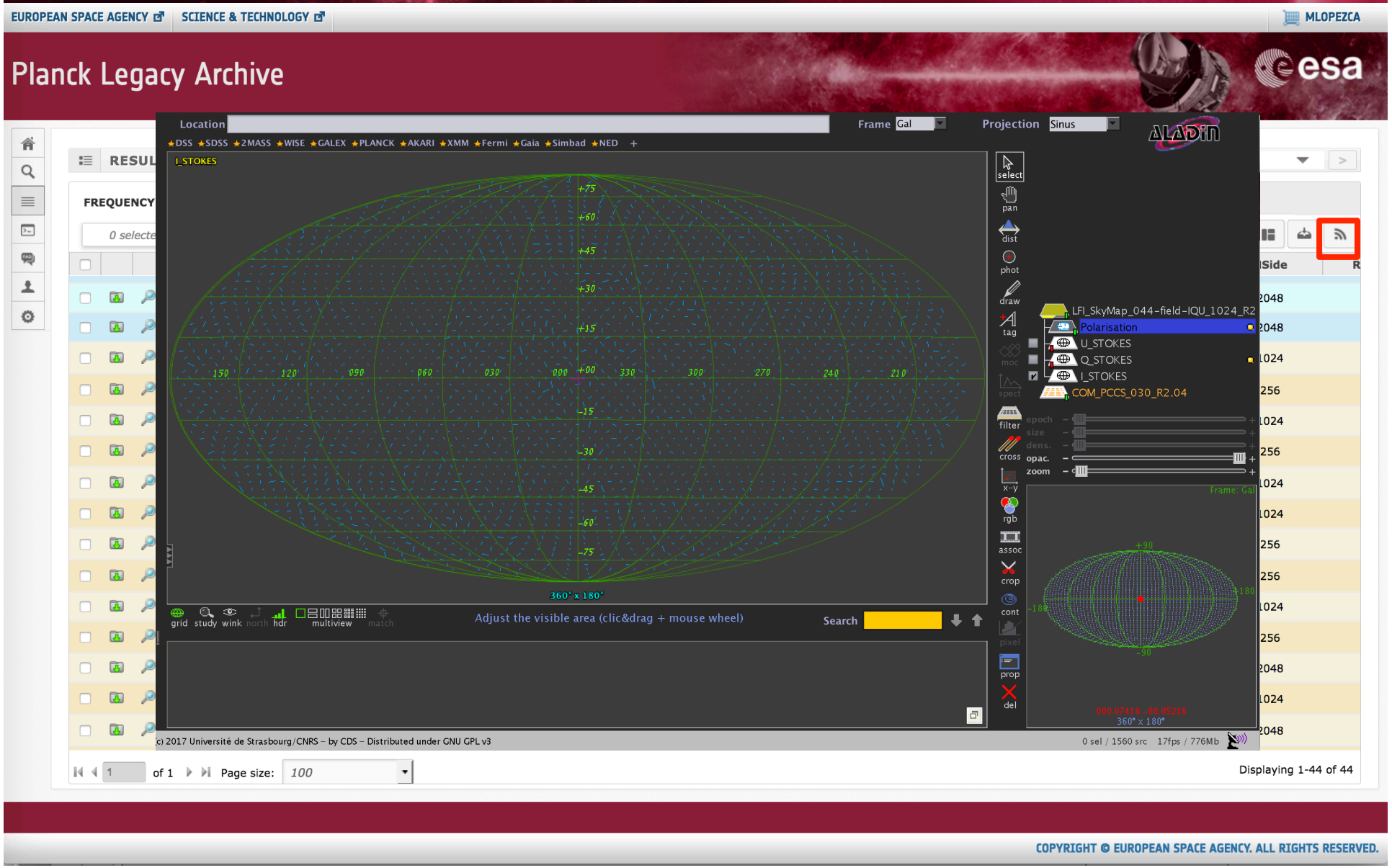
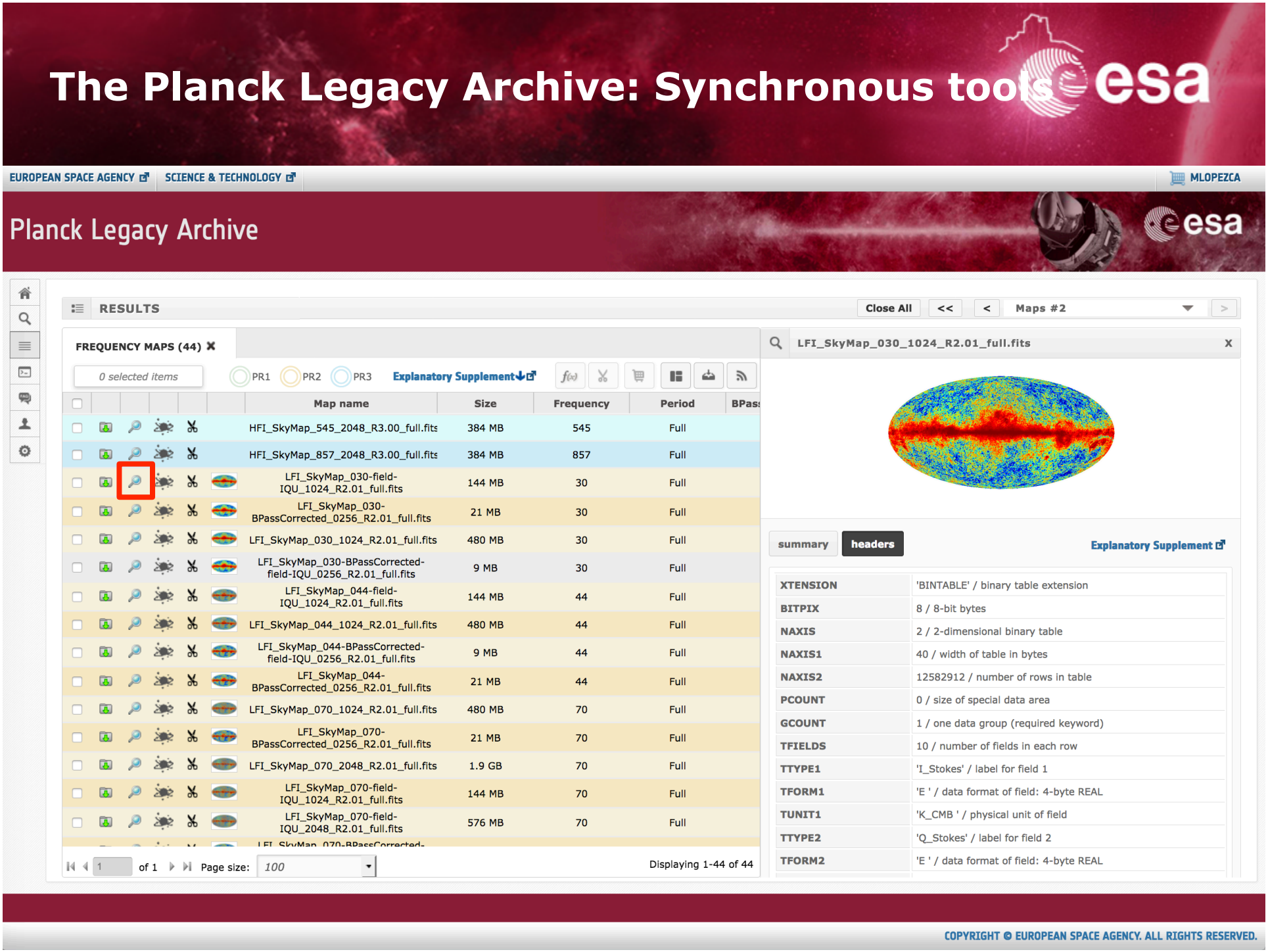
The Planck Legacy Archive: Advanced Search



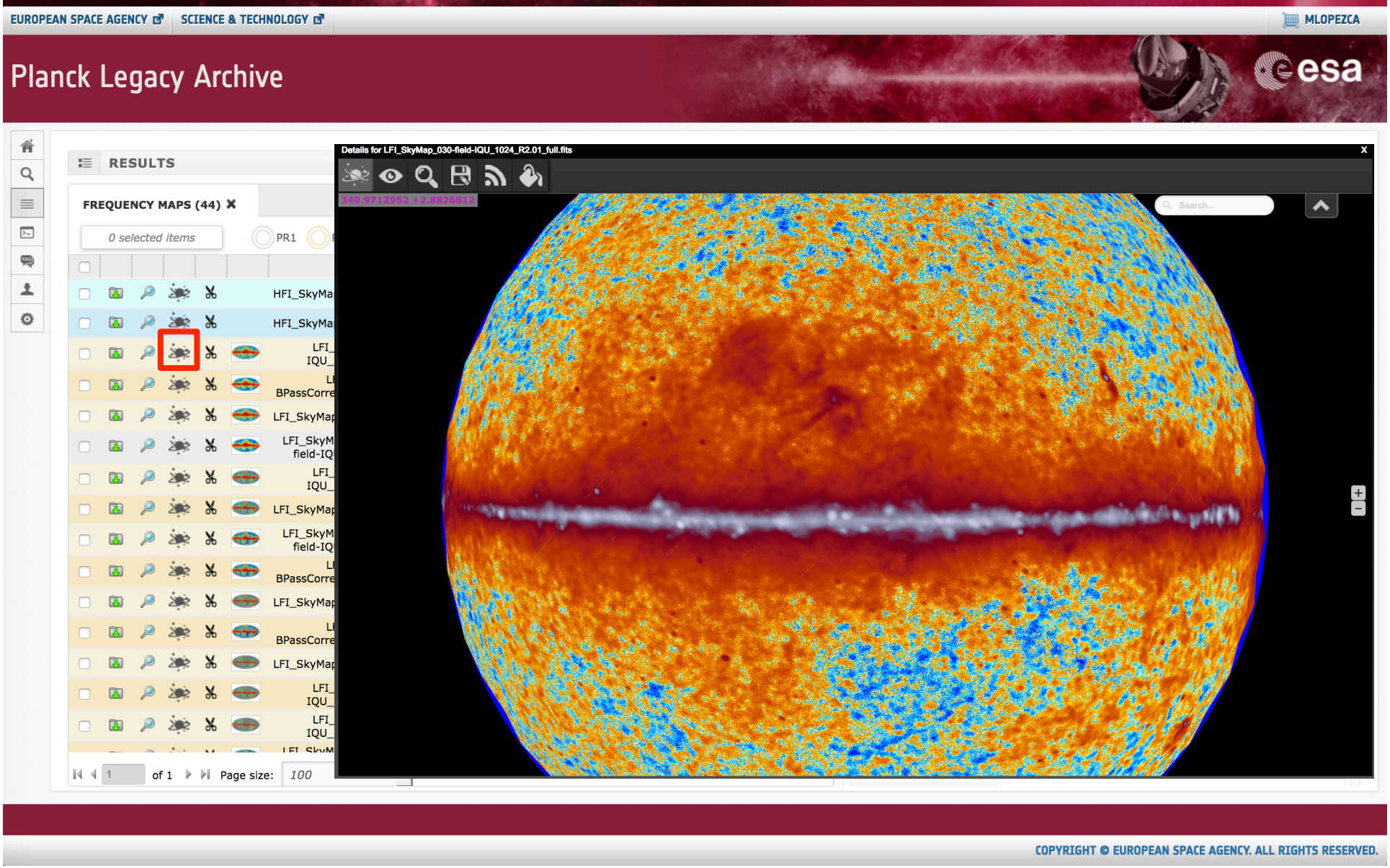
The Planck Legacy Archive: Advanced Search



The Planck Legacy Archive: Synchronous tools



The Planck Legacy Archive: Synchronous tools



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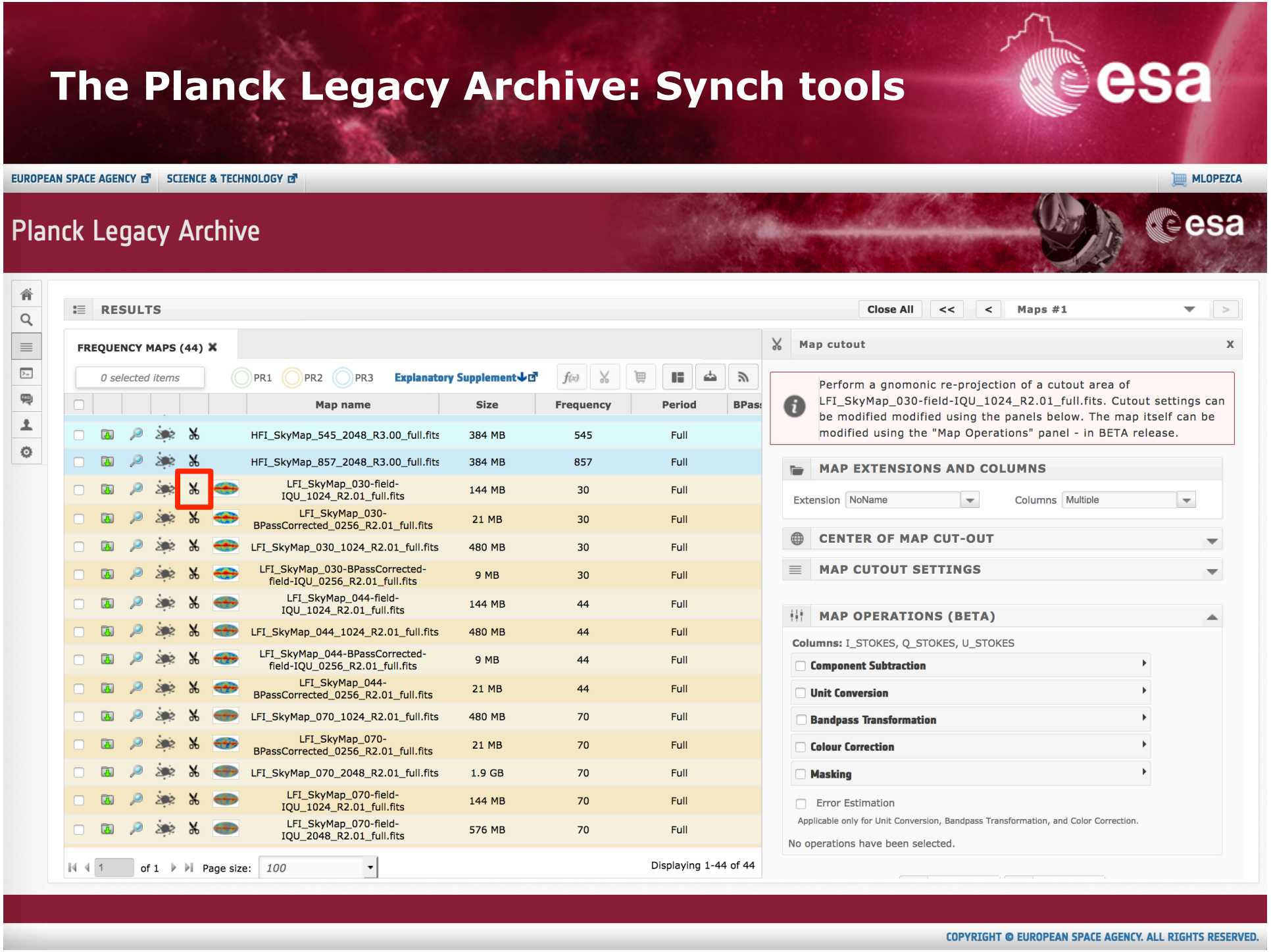

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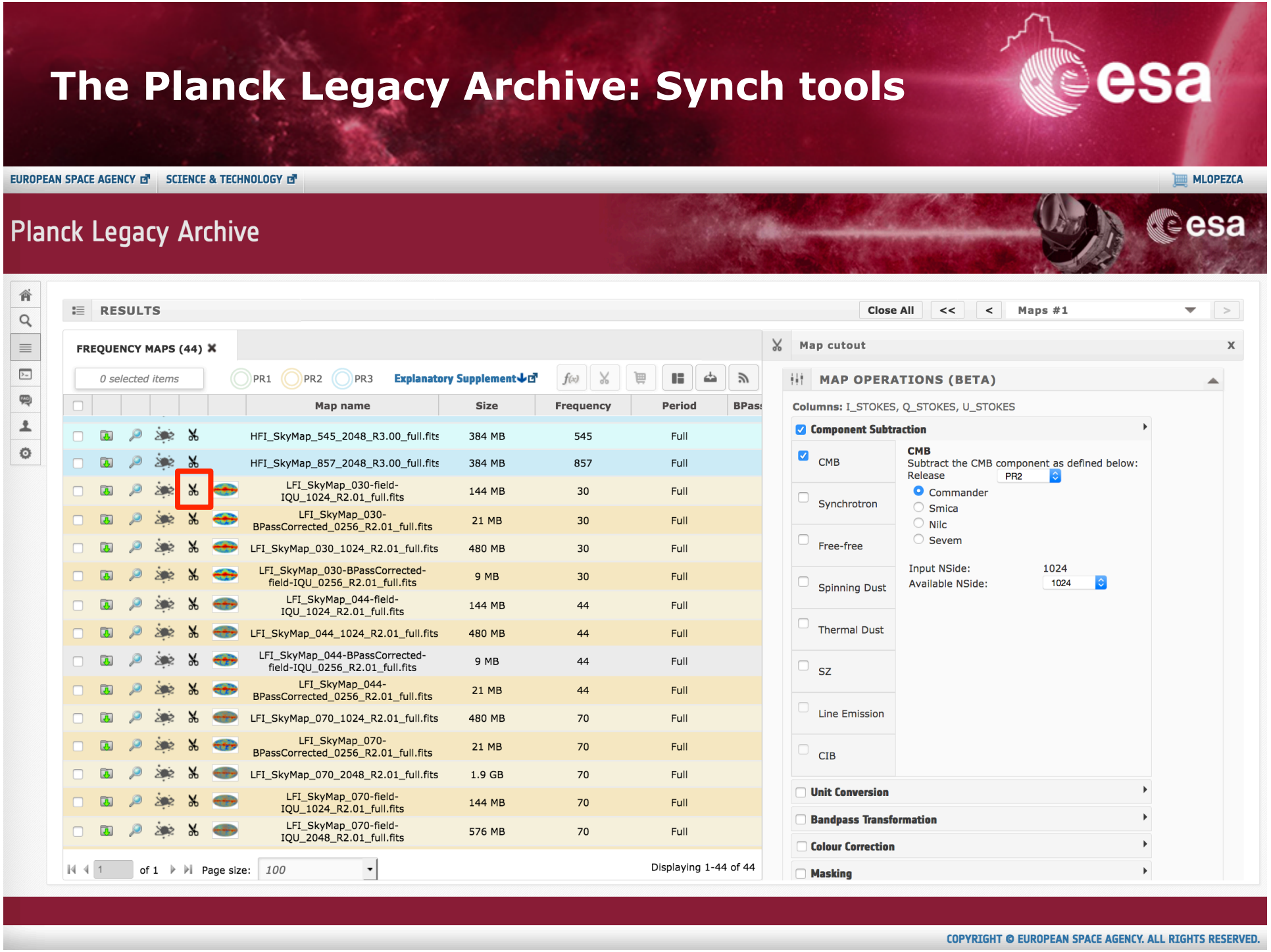

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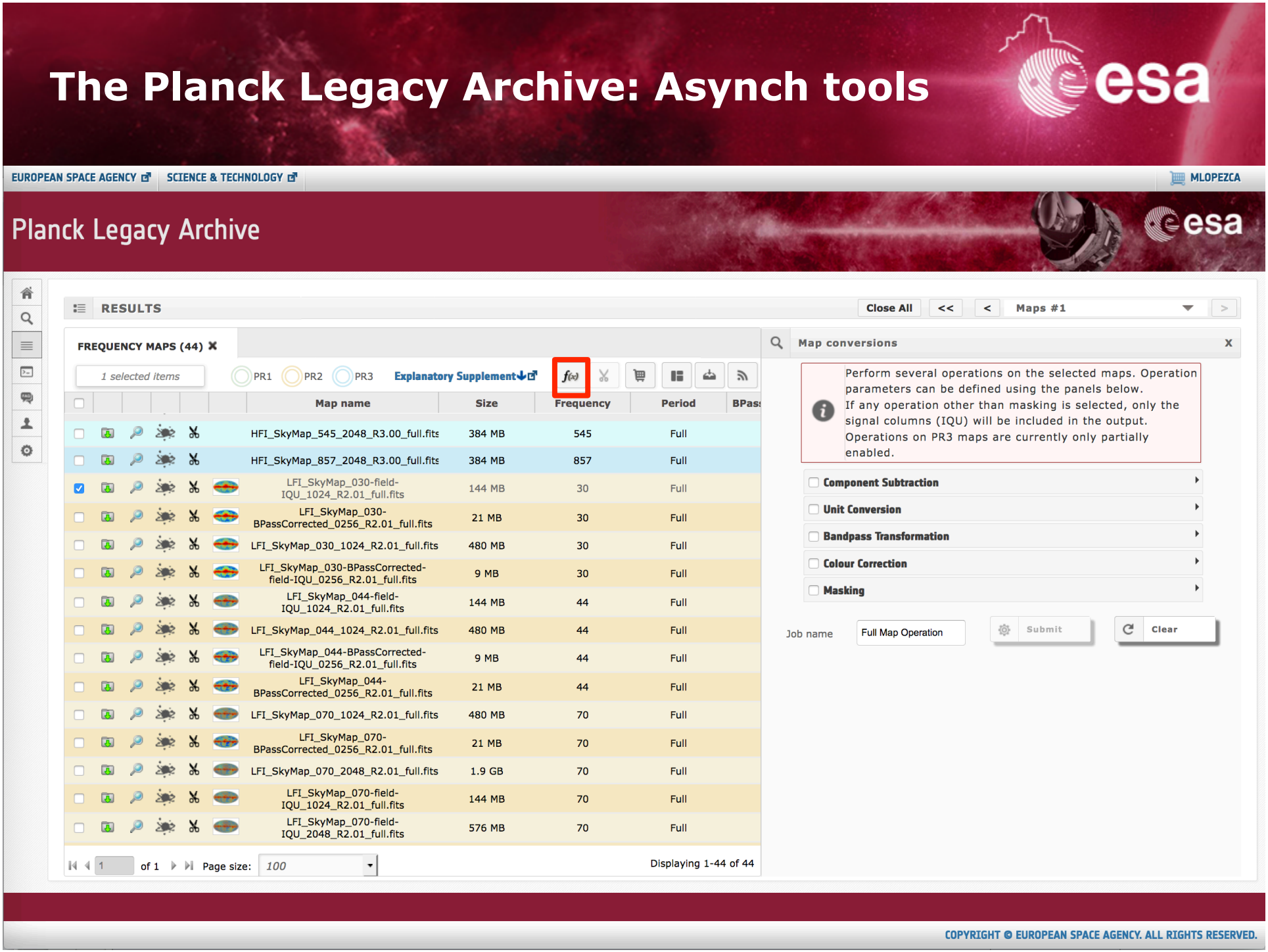

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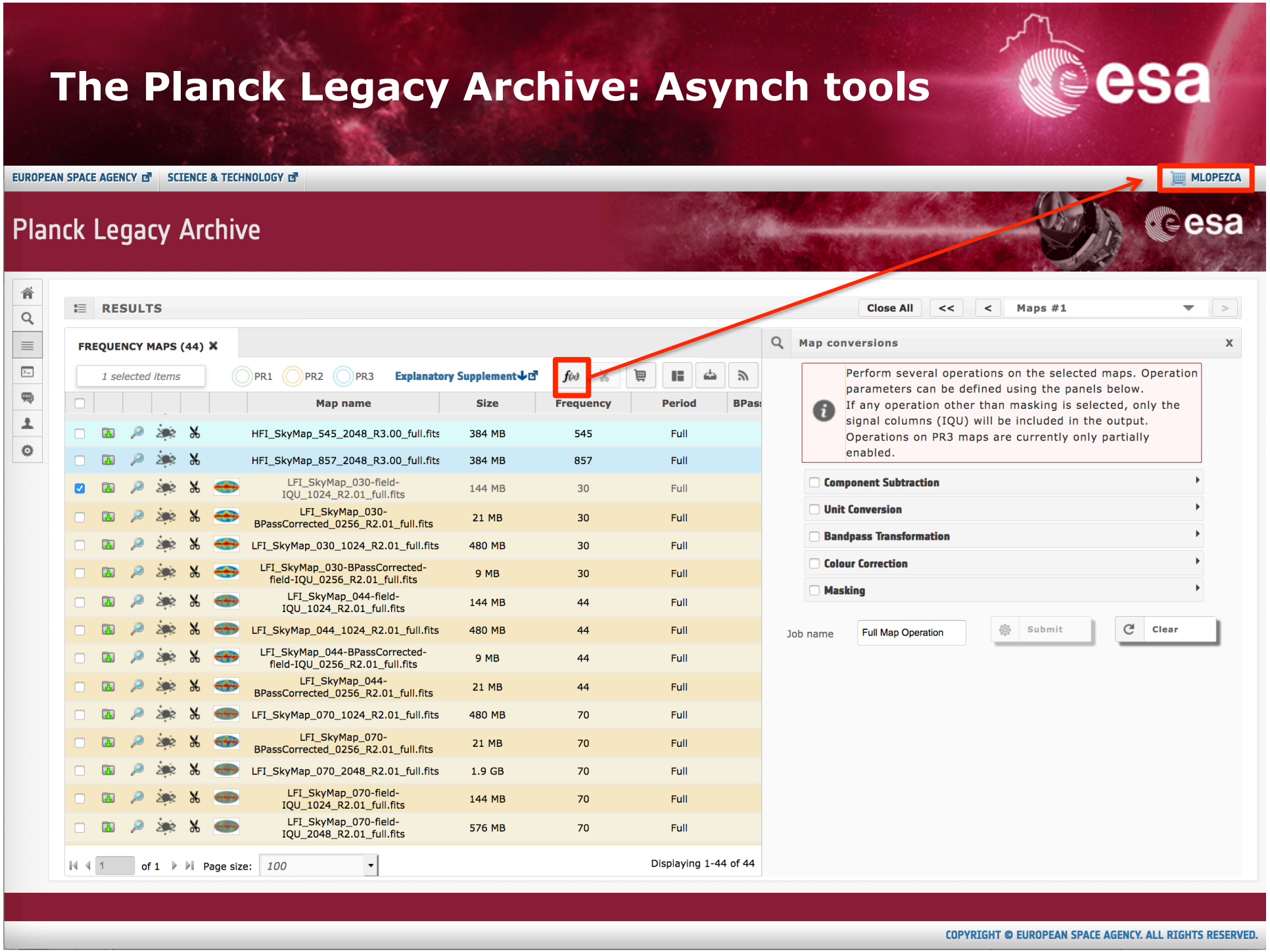
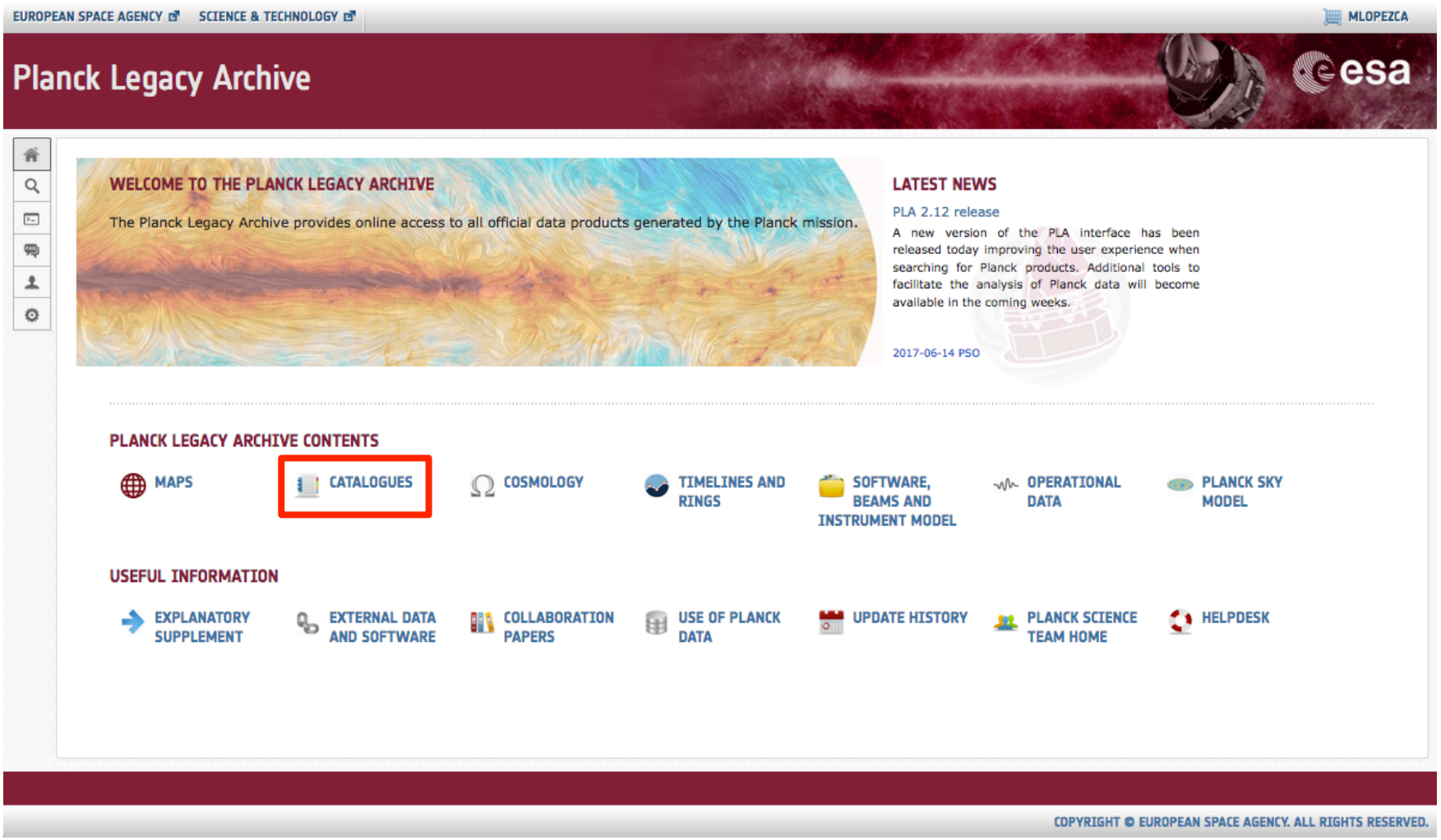
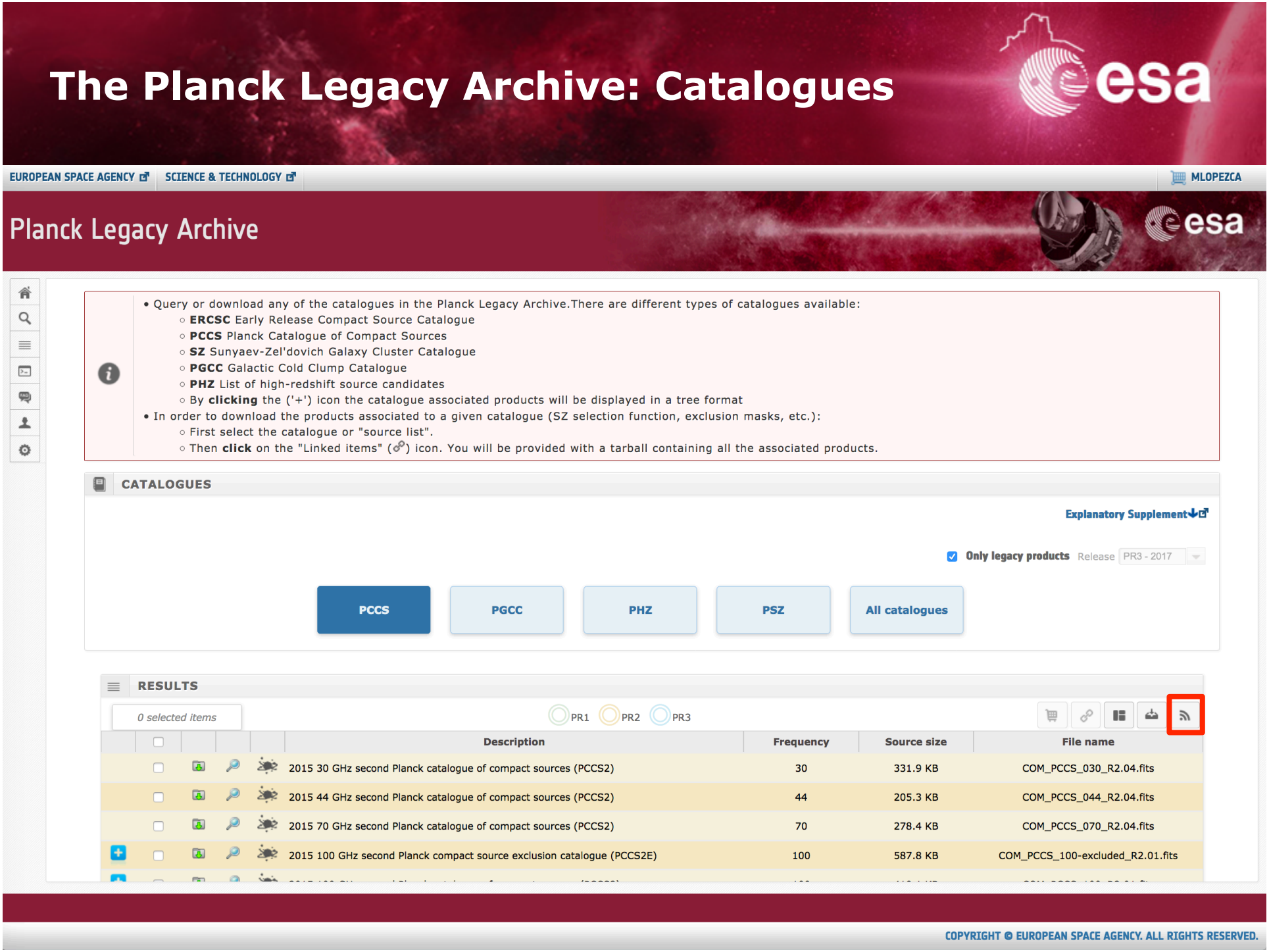


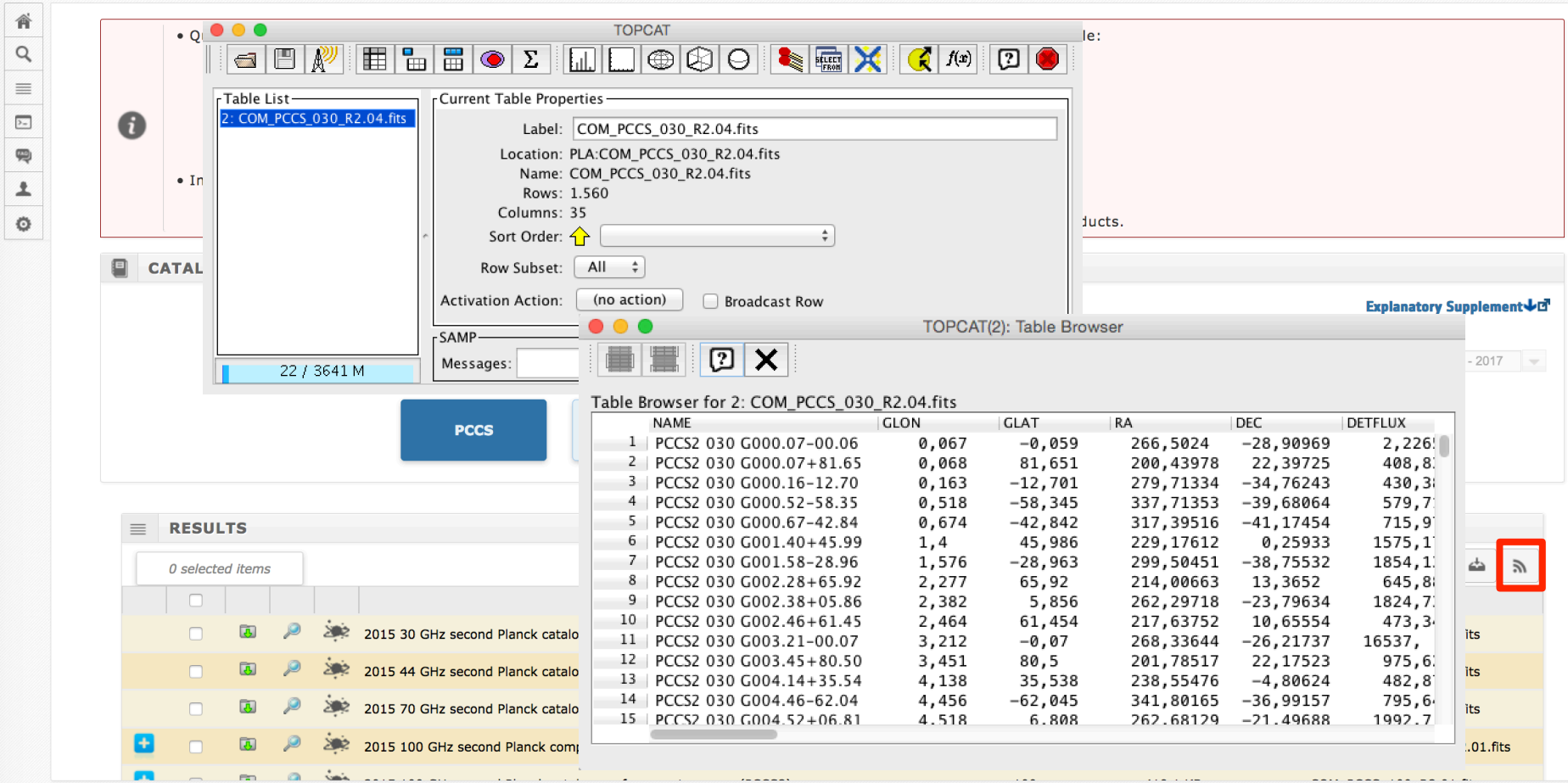
The Planck Legacy Archive



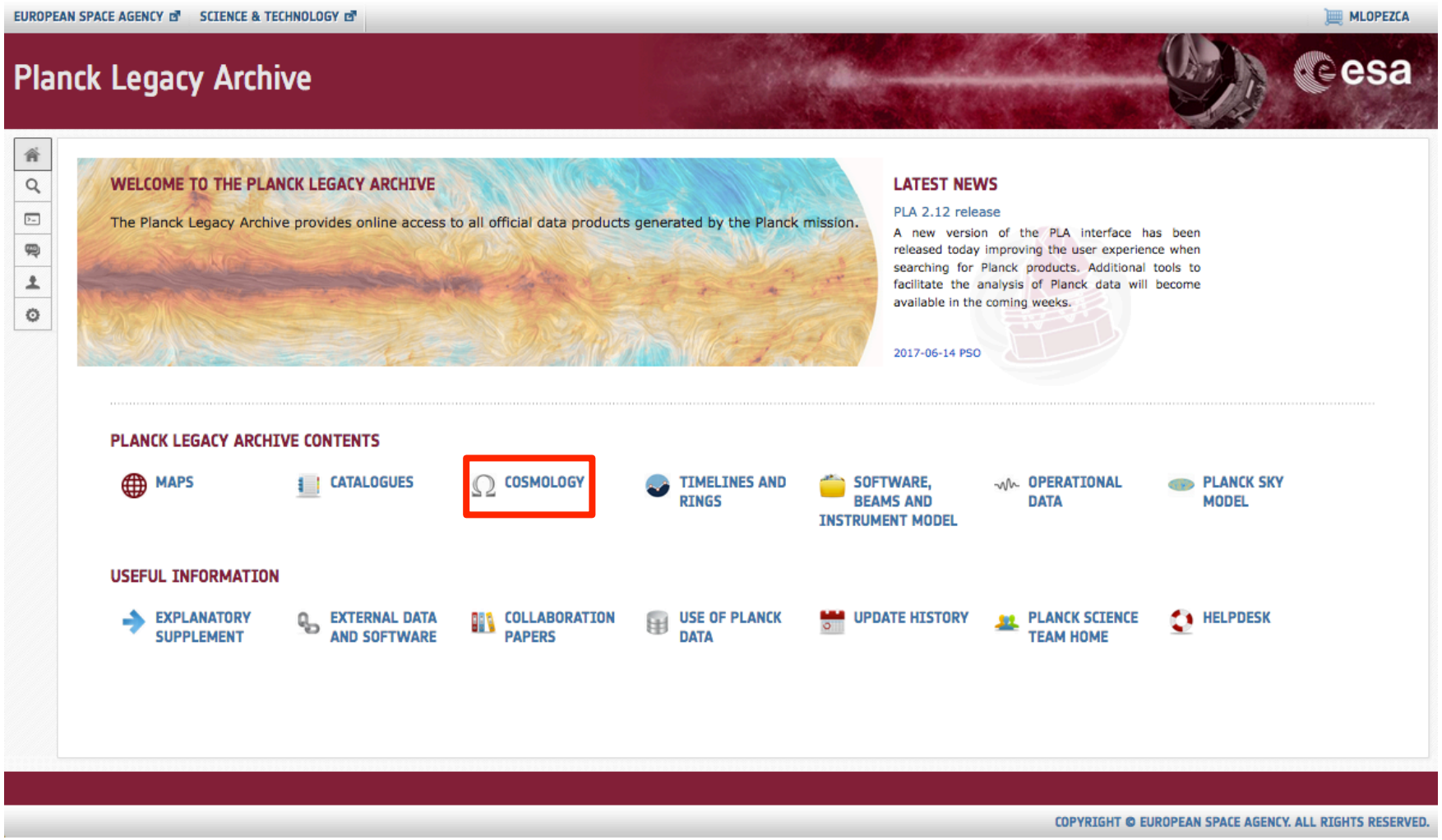
The Planck Legacy Archive: Catalogues



The Planck Legacy Archive: Catalogues



The Planck Legacy Archive



The Planck Legacy Archive: Cosmology

Planck Legacy Archive

Browse cosmology products of the Planck Legacy Archive.

COSMOLOGY PRODUCTS

Explanatory Supplement

Only legacy products Release PR2 - 2015

Cosmological parameters | CMB angular power spectra | Likelihood | Lensing products | Noise covariance matrices

Summary table

RESULTS

0 selected items

PR1 PR2 PR3

Description	File name	Size
Full grid of results.	COM_CosmoParams_fullGrid_R2.00.tar.gz	3.6 GB
Baseline high-ell Planck power spectra (plik cross half-mission, 30 <= ell <= 2508).	COM_CosmoParams_base-plikHM_R2.00.tar.gz	415.3 MB
Bicep-Keck-Planck fiducial B mode likelihood.	COM_CosmoParams_base-r-plikHM-BKP_R2.00.tar.gz	173.4 MB
Planck baseline model: TT low-ell temperature and LFI polarization (bflike, 2 <= ell <= 29).	COM_CosmoParams_base-plikHM-TT-lowTEB_R2.00.tar.gz	46.7 MB
Lensing power spectrum reconstruction only; T,E fixed to best-fit spectrum + priors.	COM_CosmoParams_base-lensonly_R2.00.tar.gz	13.5 MB

1 of 1 Page size: 100 Displaying 1-5 of 5

The Planck Legacy Archive: Cosmology

Planck Legacy Archive

Browse cosmology products of the Planck Legacy Archive.

COSMOLOGY PRODUCTS

Explanatory Supplement

Only legacy products Release PR2 - 2015

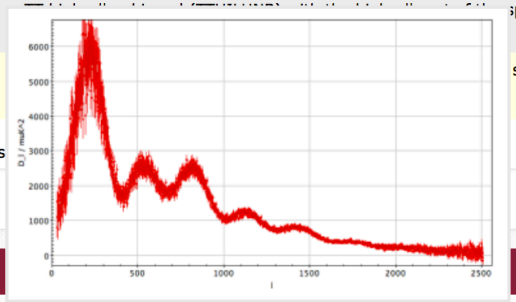
Cosmological parameters | CMB angular power spectra | Likelihood | Lensing products | Noise covariance matrices

RESULTS

0 selected items

PR1 PR2 PR3

	Description	File name	Size
	Theory Cls for the best-fit LCDM model that is plotted in Figs. 1 and 3 of the Planck 2015 results XIII, Cosmological parameters.	COM_PowerSpect_CMB-base-plikHM-TT-lowTEB-minimum-theory_R2.02.txt	200.8 KB
	The CMB spectra and their uncertainties; contains low ell *E and *B spectra in addition to the TT spectra (5 additional extensions for a total of 12 extensions).	COM_PowerSpect_CMB_R2.02.fits	160.3 KB
	spectrum, unbinned, in 2979 bins	COM_PowerSpect_CMB-TT-hiL-full_R2.02.txt	94.5 KB
	spectrum, unbinned, in 2979 bins	COM_PowerSpect_CMB-EE-hiL-full_R2.02.txt	75 KB



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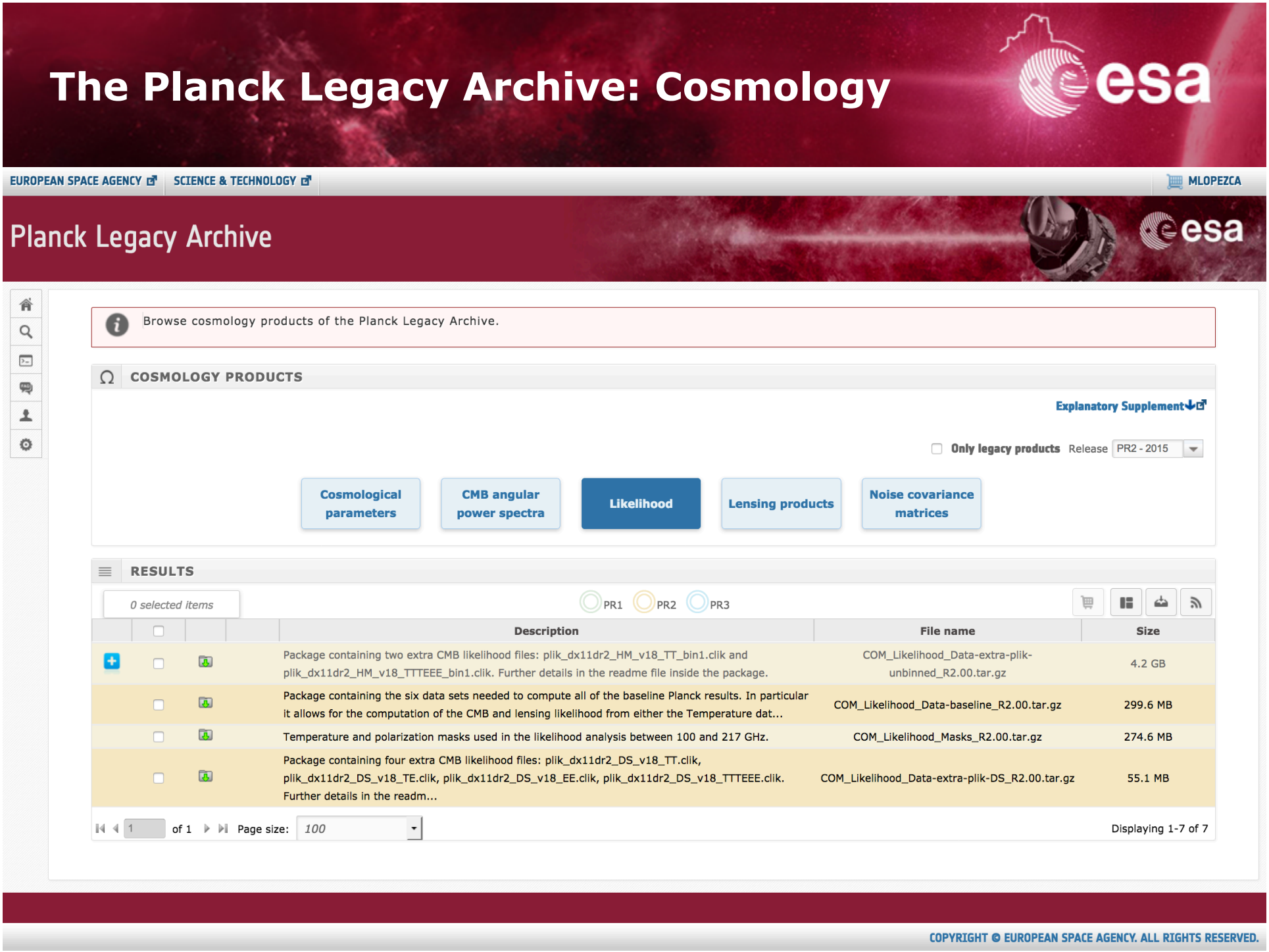
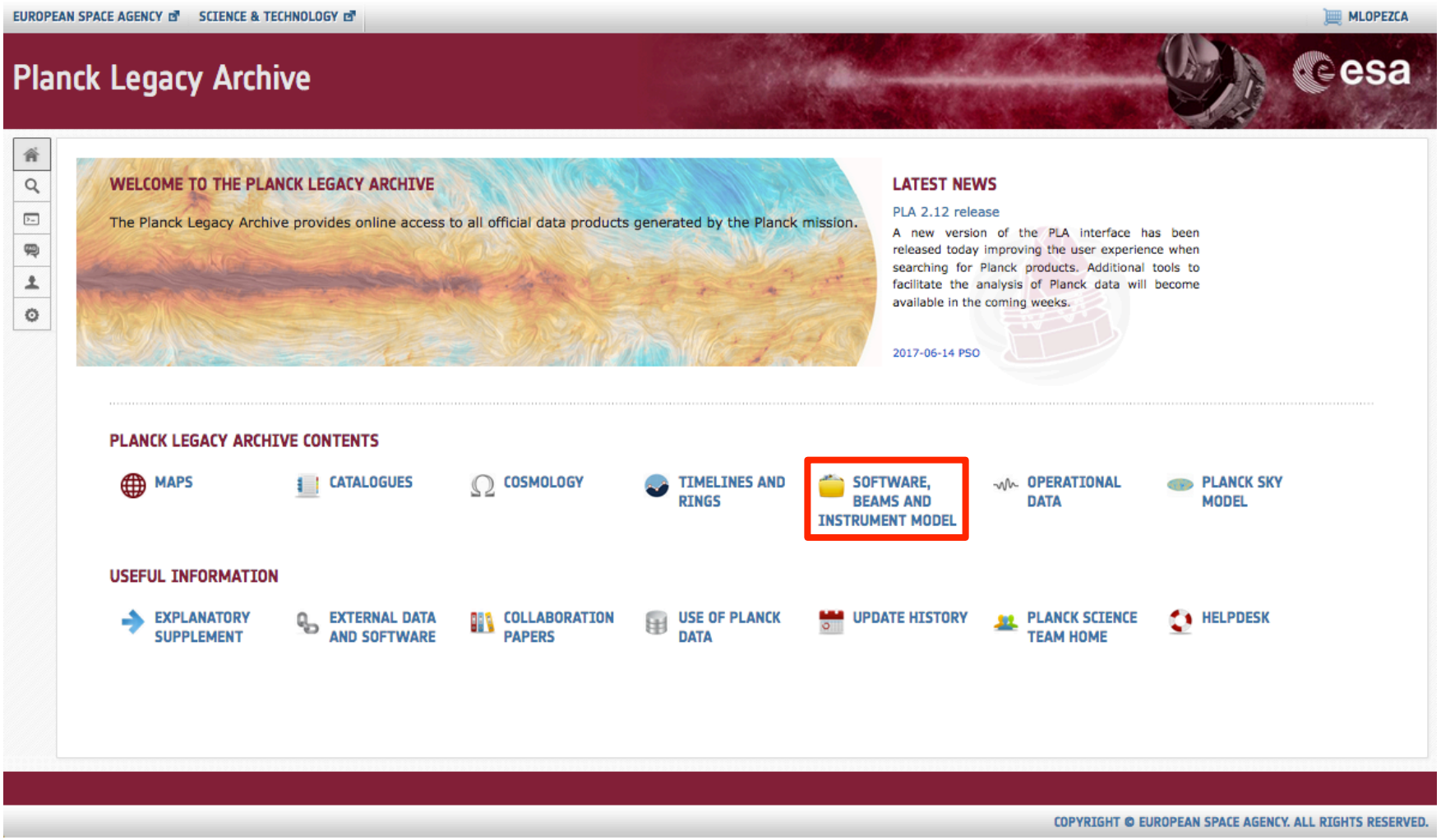
Displaying 1-3 of 3



The Planck Legacy Archive: Effective Beams



The Planck Legacy Archive: Effective Beams

Planck Legacy Archive

Browse instrument models, software, effective beams and scanning beams in the Planck Legacy Archive.

- The effective beams encode the angular response of Planck frequency maps, and vary with frequency and line of sight.
- The scanning beams describe the instrument instantaneous beam profiles.
- Use the panel below to retrieve effective beams for individual lines of sight, or over a grid of points within a specified region.

Note: Effective beams apply only to frequency maps and not to components maps (CMP, foregrounds).

INSTRUMENT MODELS AND SOFTWARE

Instrument models | Software | **Beams**

Explanatory Supplement

Only legacy products Release PR2 - 2015

Effective beams | **Scanning beams**

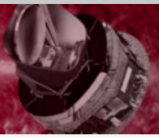
Query: Single beam / Multiple beam / Average beams — Frequency: 30 Ghz

SELECT SKY REGION

Name | Equatorial | **Galactic**

Longitude (deg) 0 Latitude (deg) 0

Submit | Clear | Send beam



MACHINE INTERFACE

3. PRODUCT REQUEST

One data request will provide, as response, one link to download one specific file. There are two types of data requests:

- **PRODUCT REQUEST**
- **PRODUCT POSTCARD REQUEST**

The kind of request you want to use is defined by the parameter **"RETRIEVALTYPE"** . Depending on its value, your request will be processed differently and different combination of parameters will be expected. For some products it is necessary to include the user credentials in the **URL** in order to be able to retrieve data.

PRODUCT REQUEST

Product requests can be made in order to retrieve any of the files that the Planck Legacy Archive provides. To retrieve a product the **ID of the file** must be specified using one of the parameters displayed in the following table:

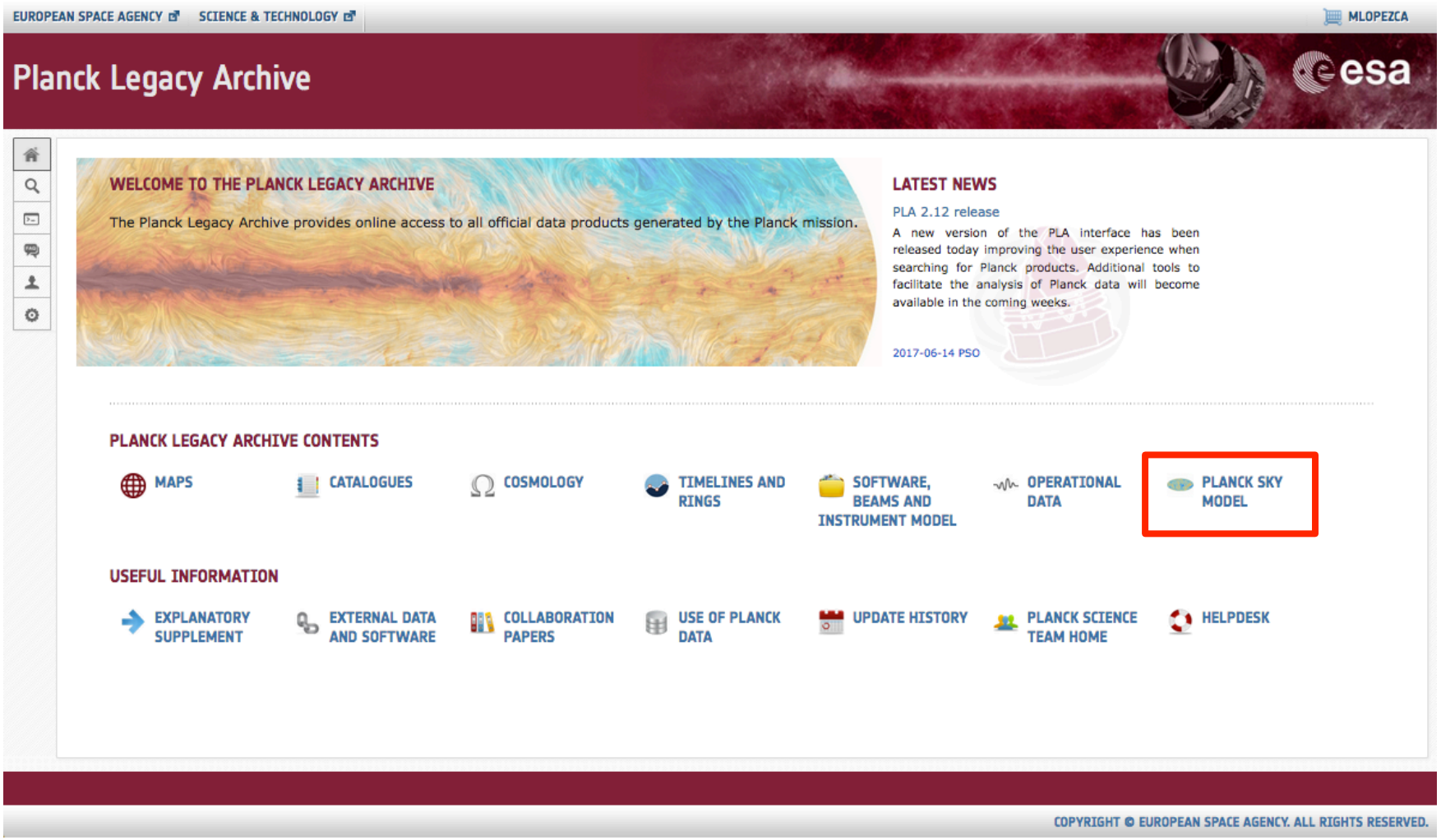
Table 4: Product request parameters

PARAMETER NAME(S)	DESCRIPTION	POSSIBLE VALUES
ANCILLARY_DATA.FILE_ID	The file name of the ancillary file we want to retrieve.	A String
COSMOLOGY.FILE_ID	The file name of the cosmology product we want to retrieve	A String
DOCUMENT_MAP.DOCUMENT_ID	The file name of the document map we want to retrieve	A String
DOCUMENT_SOURCE_LIST.DOCUMENT_ID	The file name of the document of the source we want to retrieve	A String
FILE.FILE_ID	The file name of the file we want to retrieve	A String
MAP.MAP_ID	The file name of the map we want to retrieve	A String

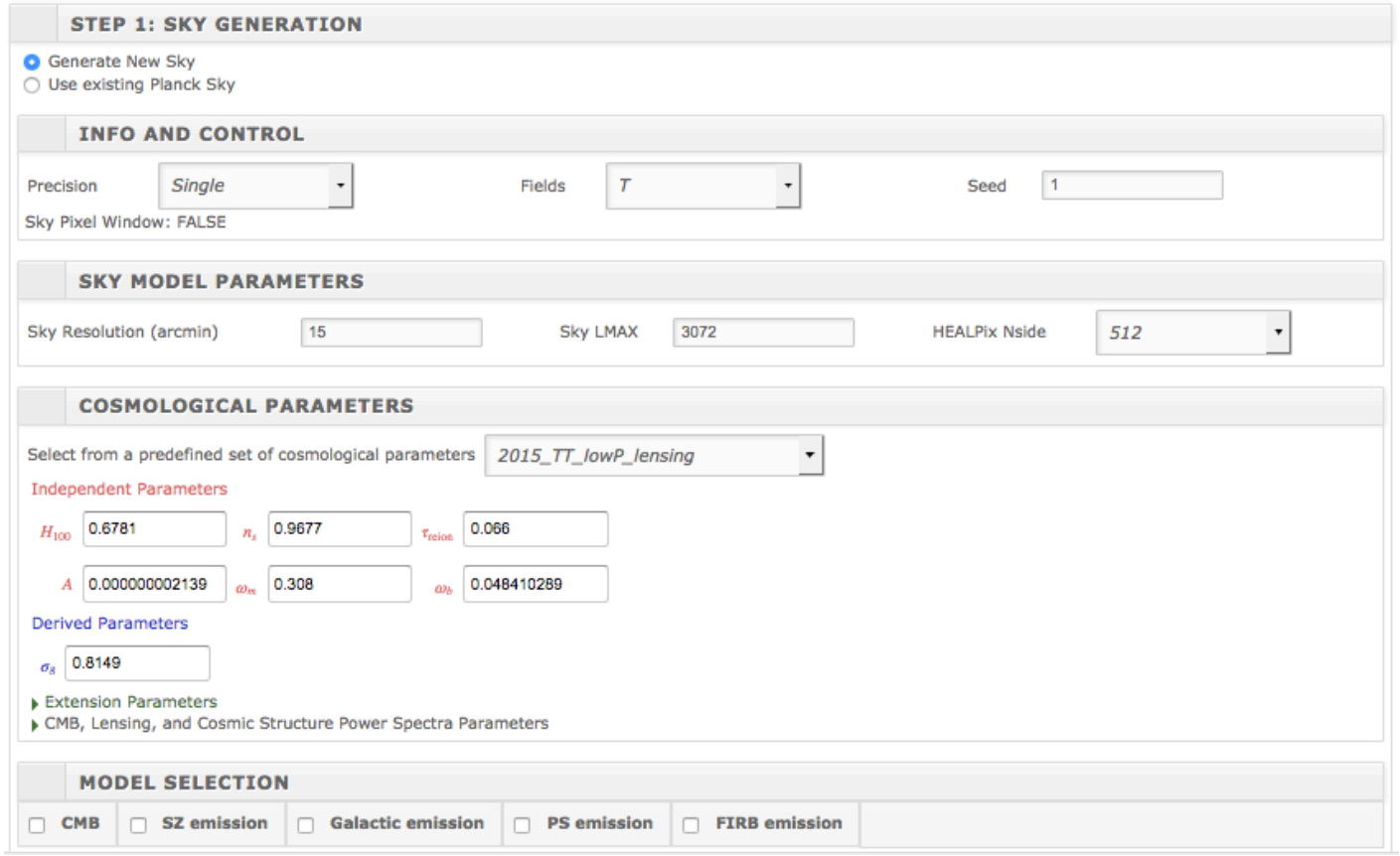
INDEX OF CONTENTS

Get AIO Client

The Planck Legacy Archive

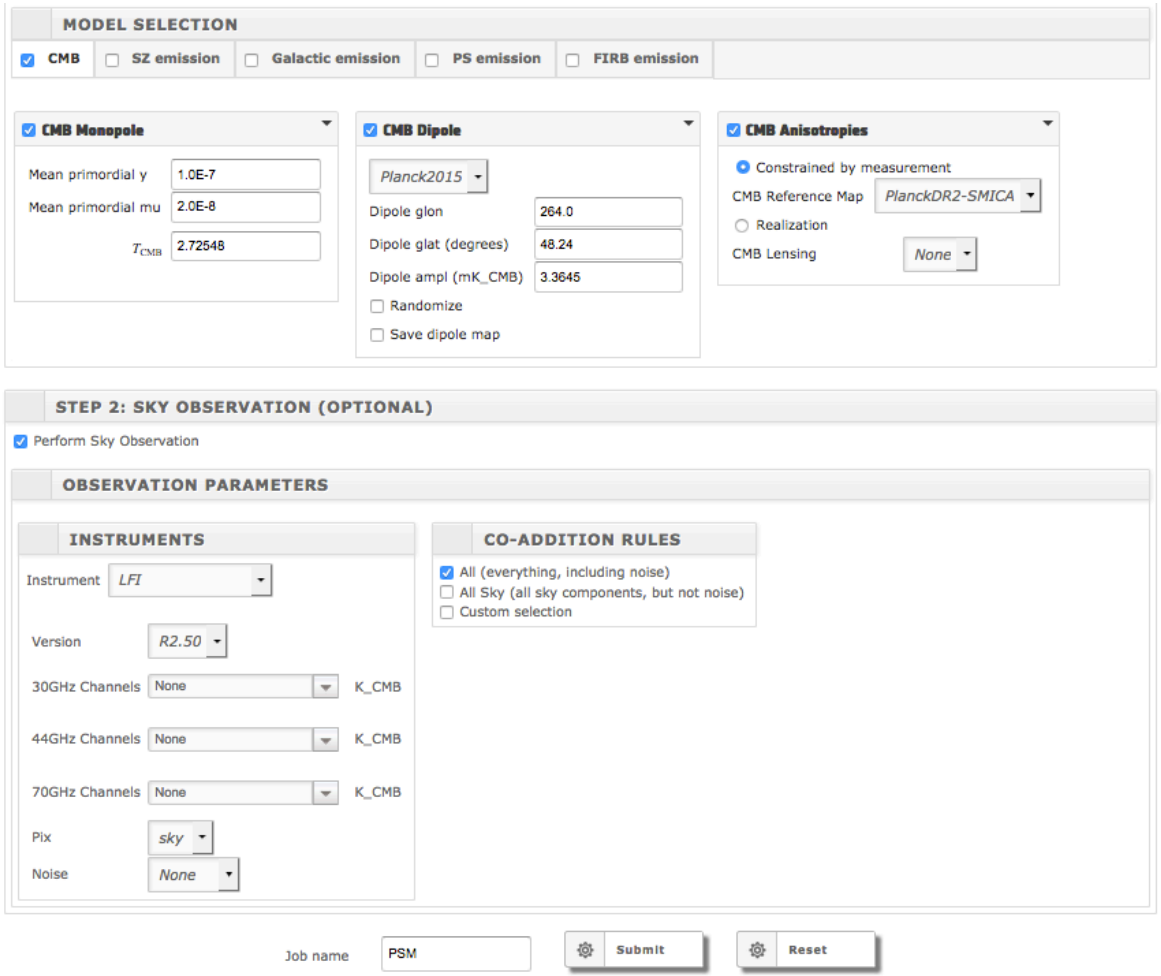


- Web interface for Planck Sky Model simulation software



The Planck Legacy Archive

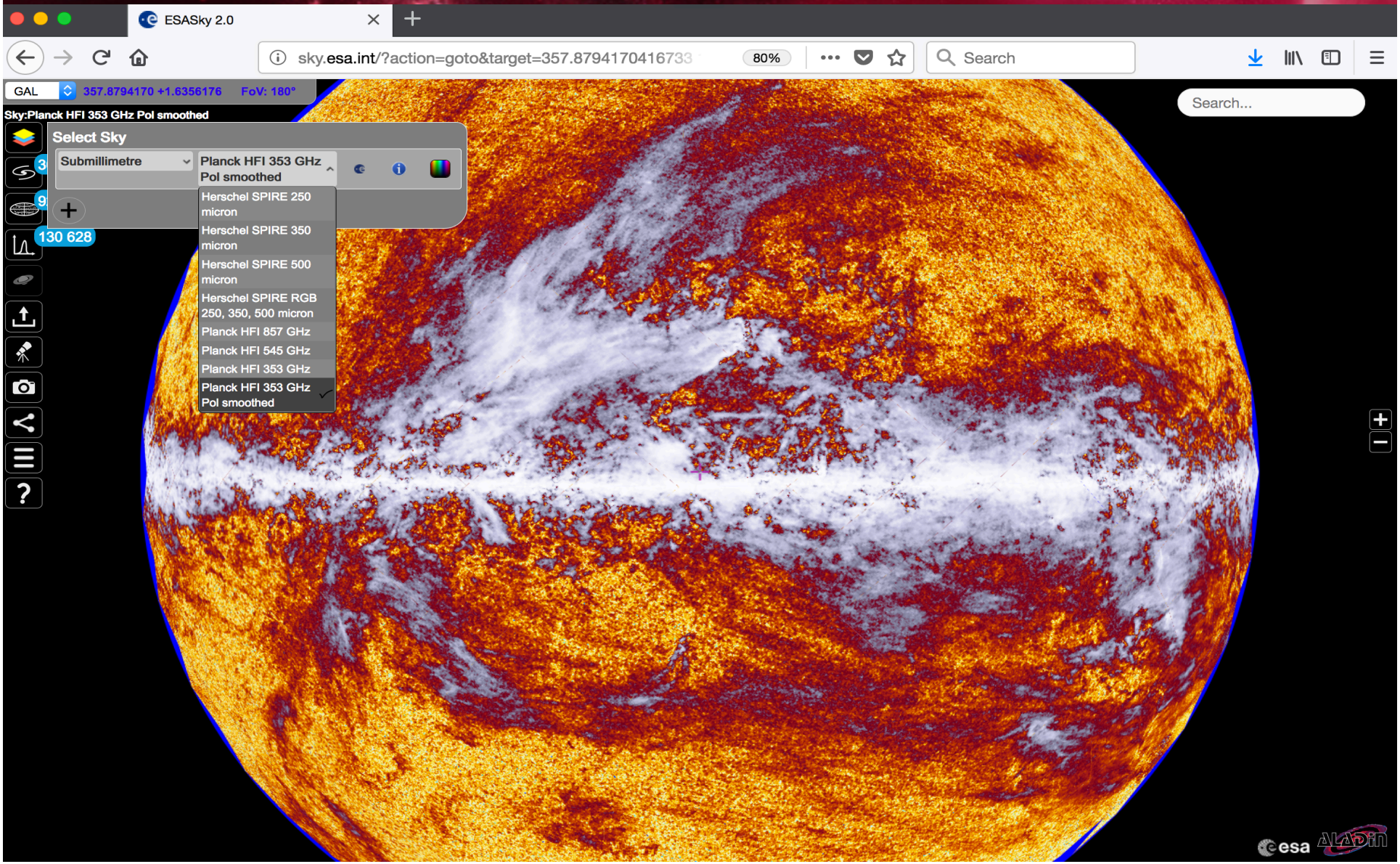
- Web interface for Planck Sky Model simulation software



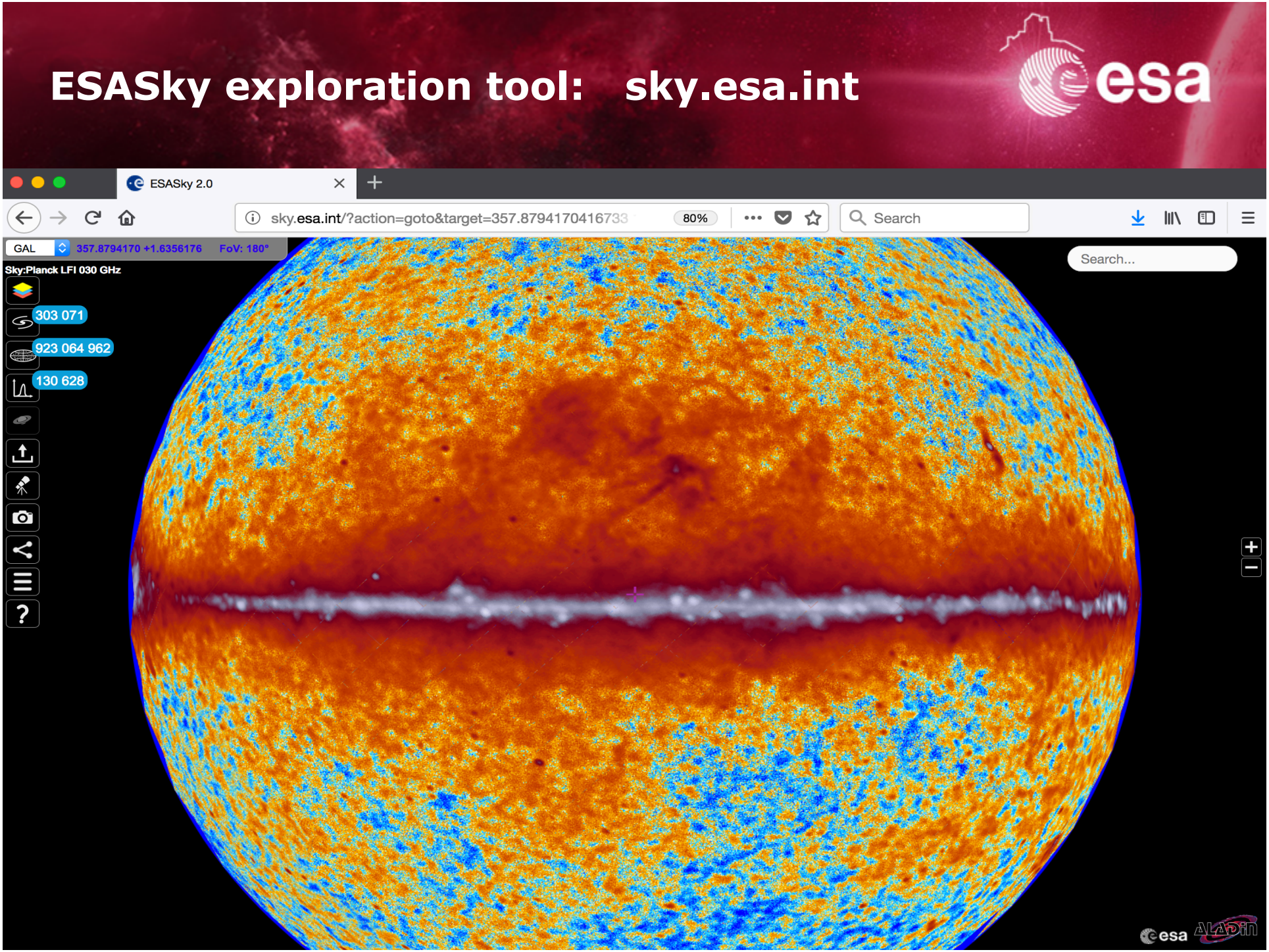
planck

European Space Agency

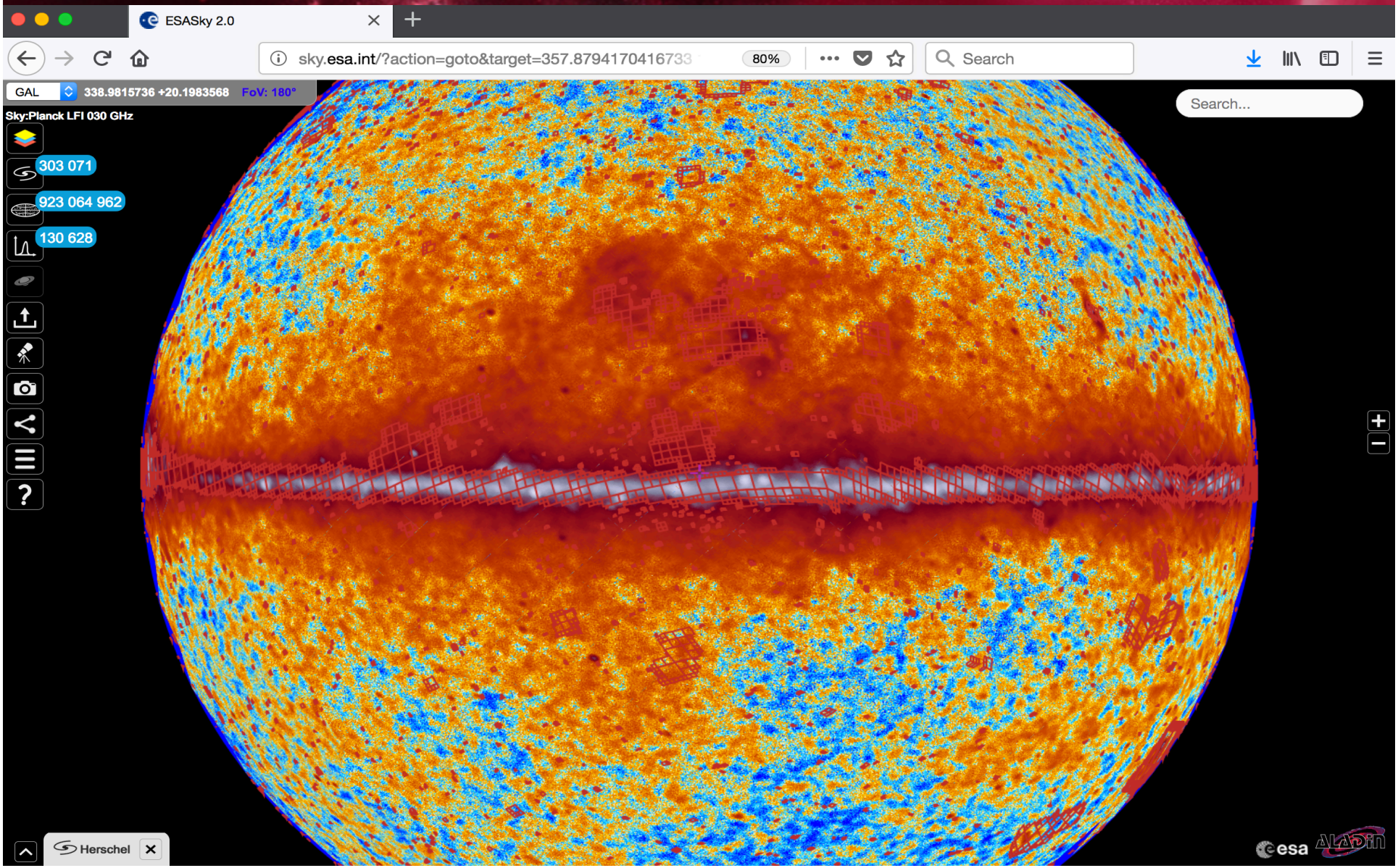
ESASky exploration tool: sky.esa.int



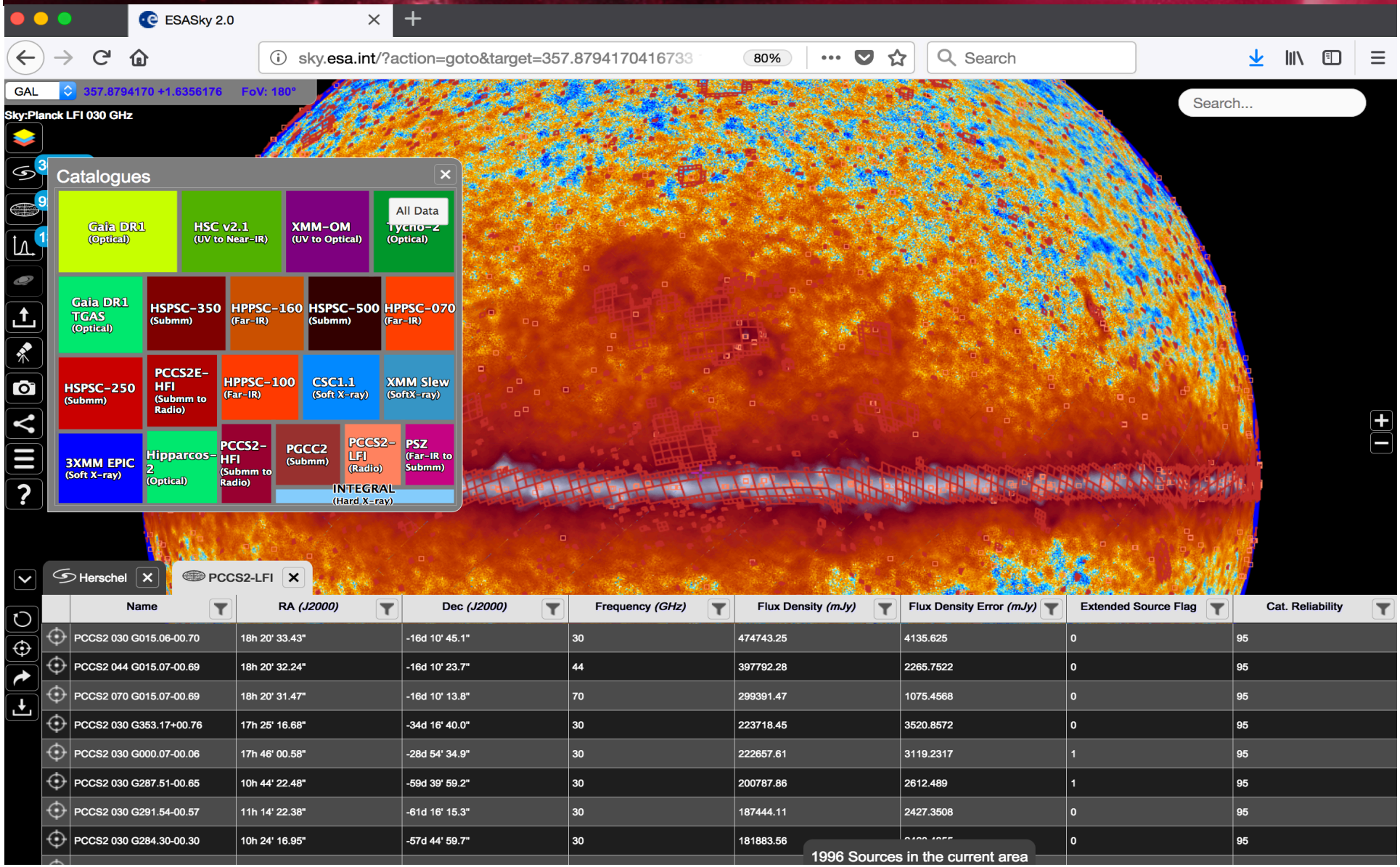
ESASky exploration tool: sky.esa.int



ESASky exploration tool: sky.esa.int

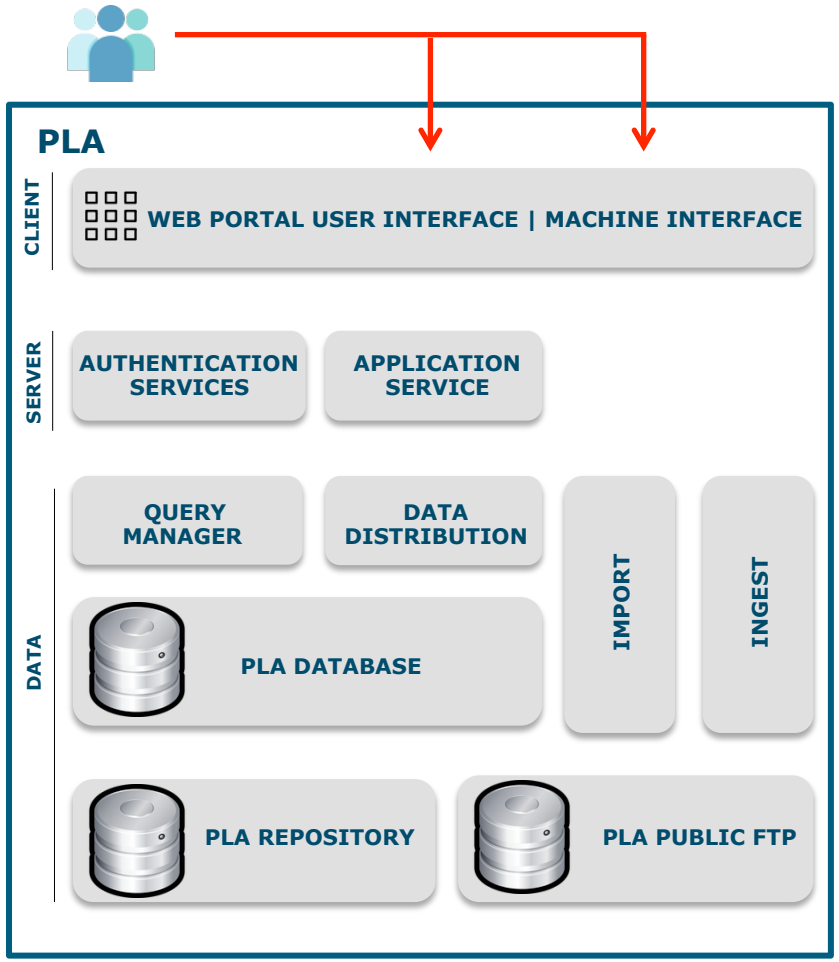


ESASky exploration tool: sky.esa.int



Name	RA (J2000)	Dec (J2000)	Frequency (GHz)	Flux Density (mJy)	Flux Density Error (mJy)	Extended Source Flag	Cat. Reliability
PCCS2 030 G015.06-00.70	18h 20' 33.43"	-16d 10' 45.1"	30	474743.25	4135.625	0	95
PCCS2 044 G015.07-00.69	18h 20' 32.24"	-16d 10' 23.7"	44	397792.28	2265.7522	0	95
PCCS2 070 G015.07-00.69	18h 20' 31.47"	-16d 10' 13.8"	70	299391.47	1075.4568	0	95
PCCS2 030 G353.17+00.76	17h 25' 16.68"	-34d 16' 40.0"	30	223718.45	3520.8572	0	95
PCCS2 030 G000.07-00.06	17h 46' 00.58"	-28d 54' 34.9"	30	222657.61	3119.2317	1	95
PCCS2 030 G287.51-00.65	10h 44' 22.48"	-59d 39' 59.2"	30	200787.86	2612.489	1	95
PCCS2 030 G291.54-00.57	11h 14' 22.38"	-61d 16' 15.3"	30	187444.11	2427.3508	0	95
PCCS2 030 G284.30-00.30	10h 24' 16.95"	-57d 44' 59.7"	30	181883.56		0	95

The Planck Legacy Archive



Planck Added Value Interface: separate python modules compiled in their own Docker images and executed in specific Docker containers.