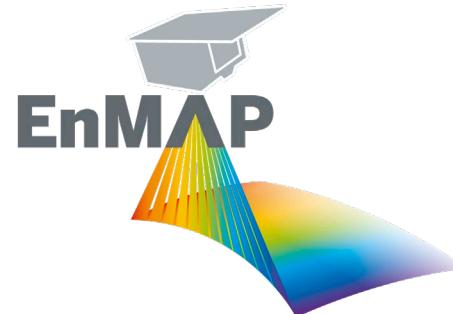
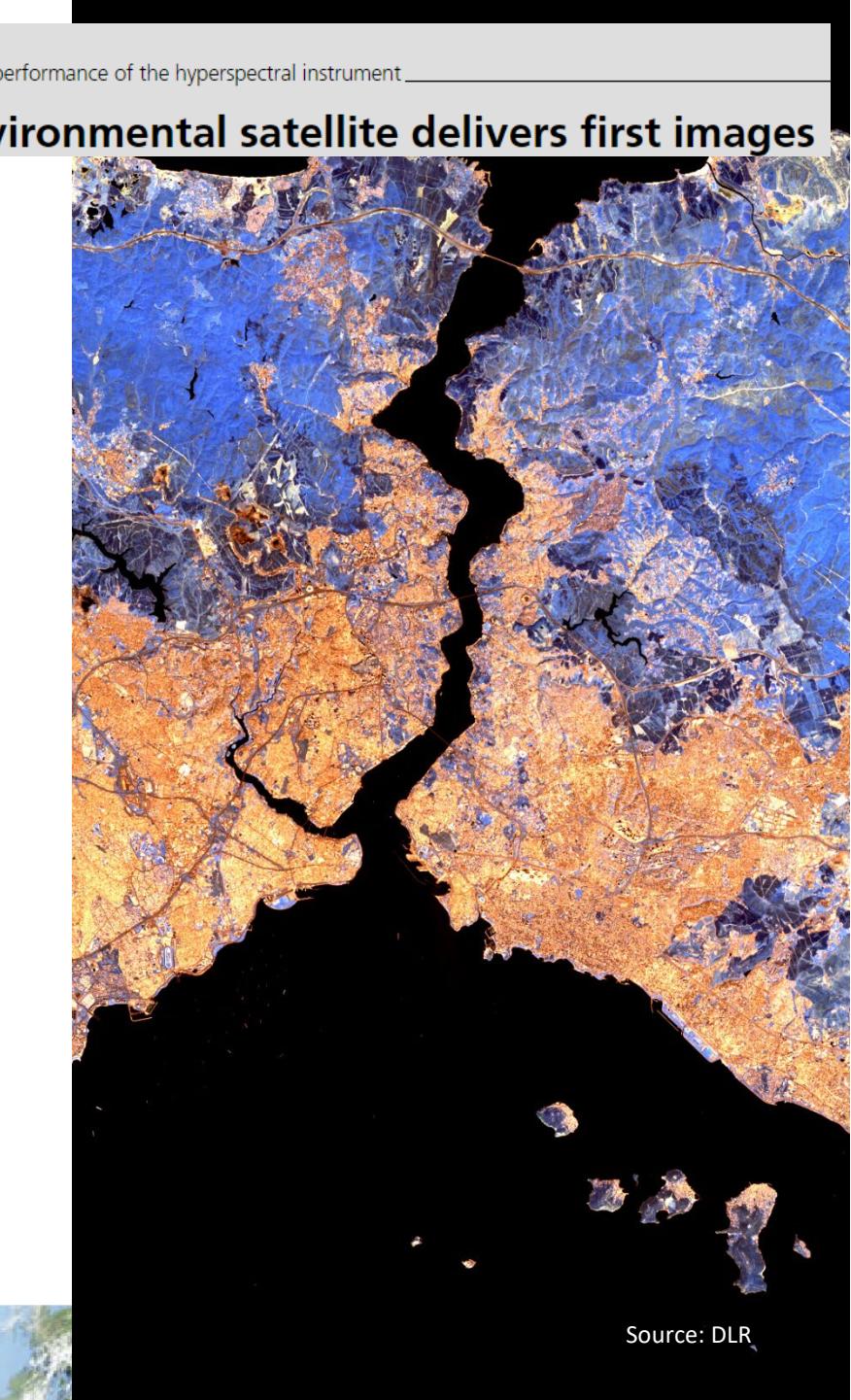


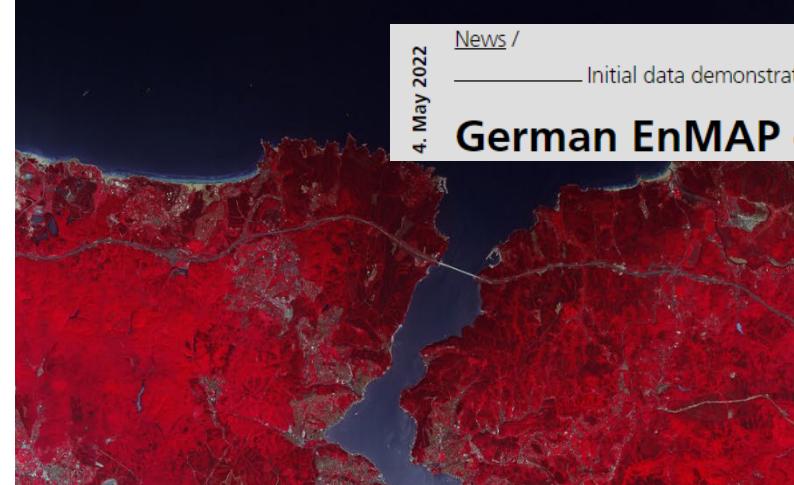
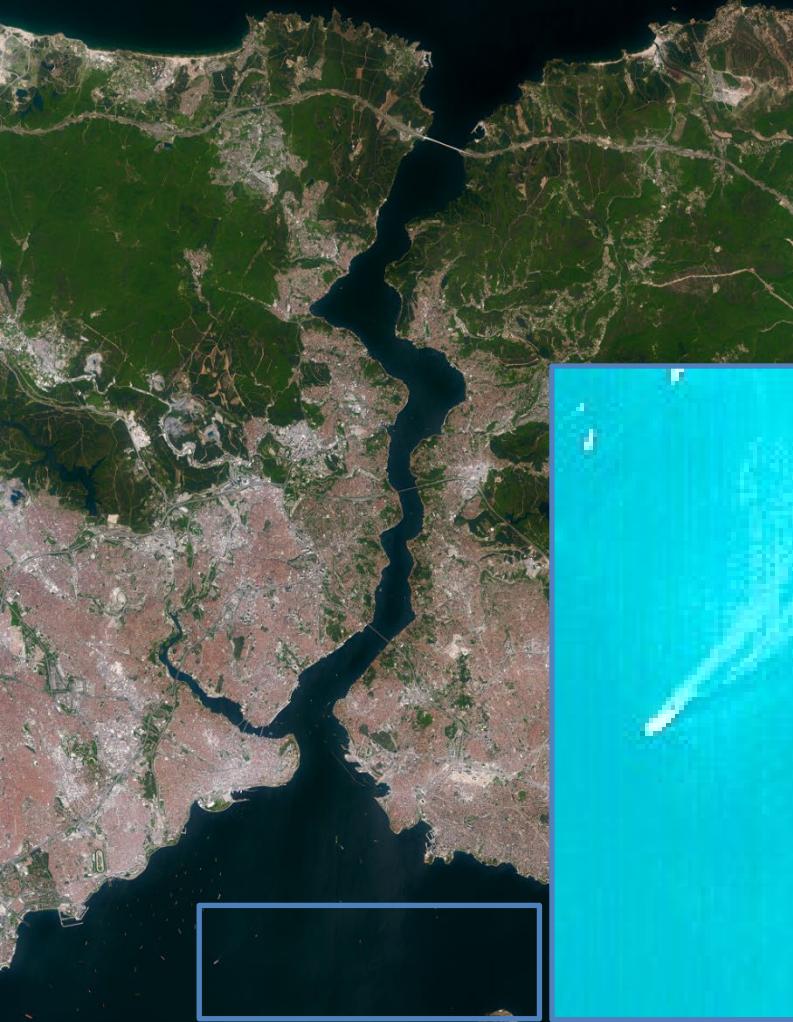
Status and planning of EnMAP operations

Tobias Storch, Saika Aida, Kevin Alonso, Martin Bachmann, Emiliano Carmona, Daniele Dietrich, Sabine Engelbrecht, Birgit Gerasch, Anett Gidofalvy, Johannes Greulich, Martin Habermeyer, Norbert Harder, Sebastian Hartung, Stefan Keim, Christoph Lenzen, Sebastian Löw, Klaus-Dieter Mißling, Helmut Mühle, Andreas Ohndorf, Miguel Pato, Nicole Pinnel, Raquel de los Reyes, Mathias Schneider, Peter Schwind, Mirco Tegler, Peter Willburger, Katrin Wirth, Steffen Zimmermann





Source: DLR

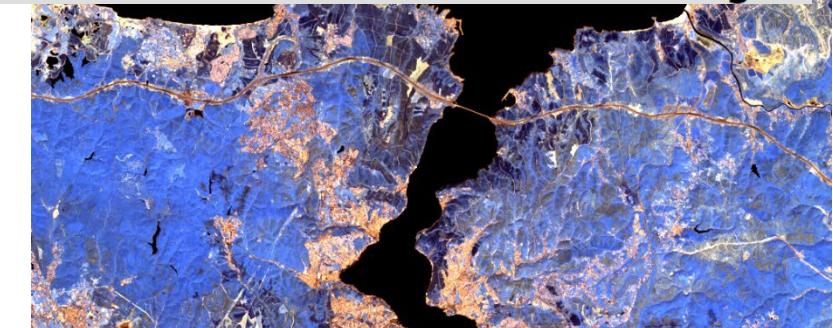


4. May 2022

News /

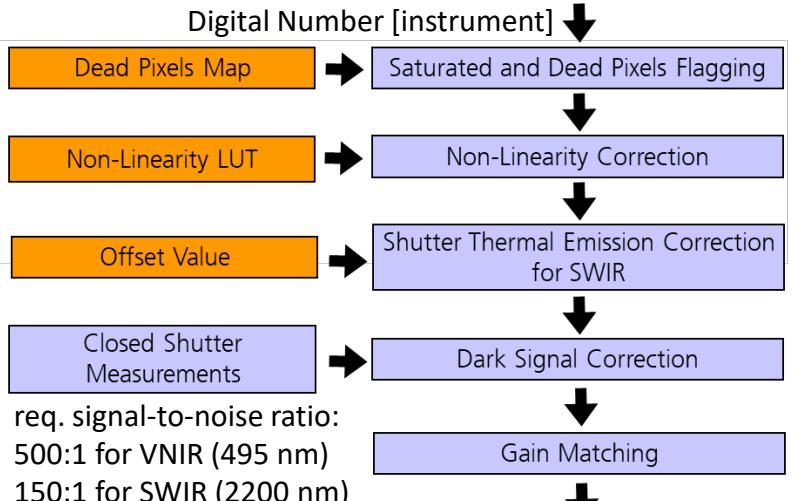
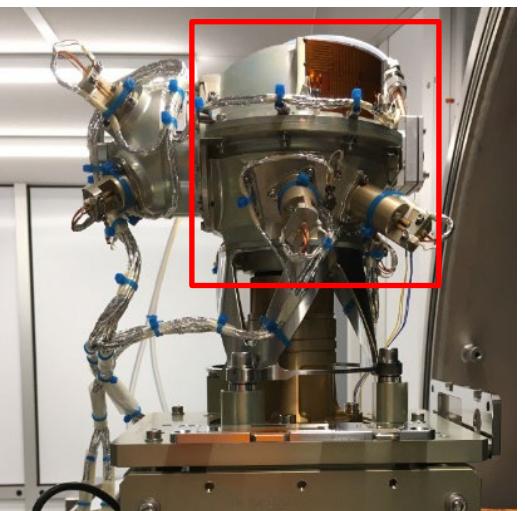
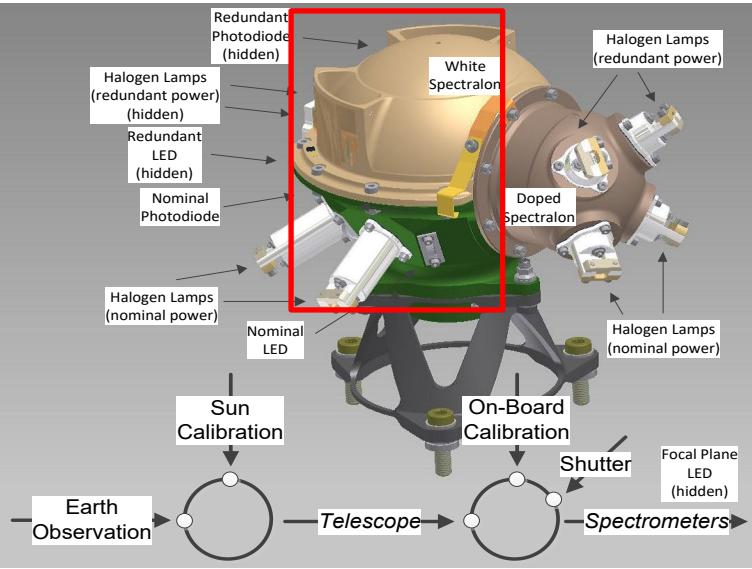
Initial data demonstrate the performance of the hyperspectral instrument

German EnMAP environmental satellite delivers first images

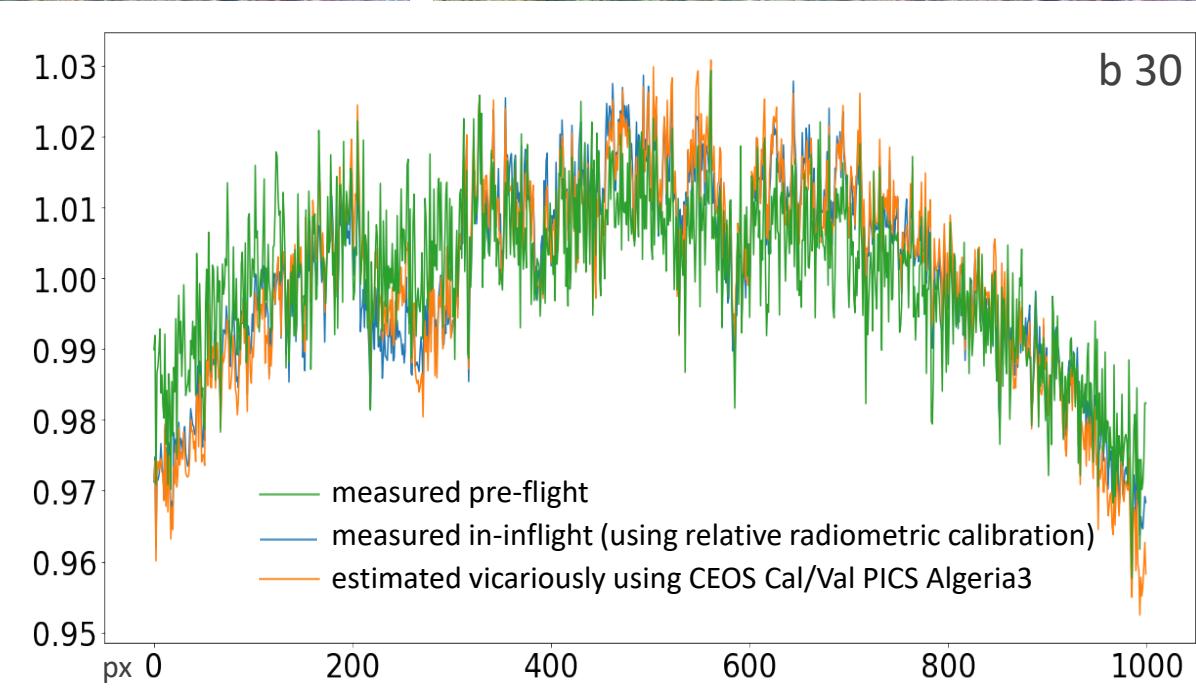
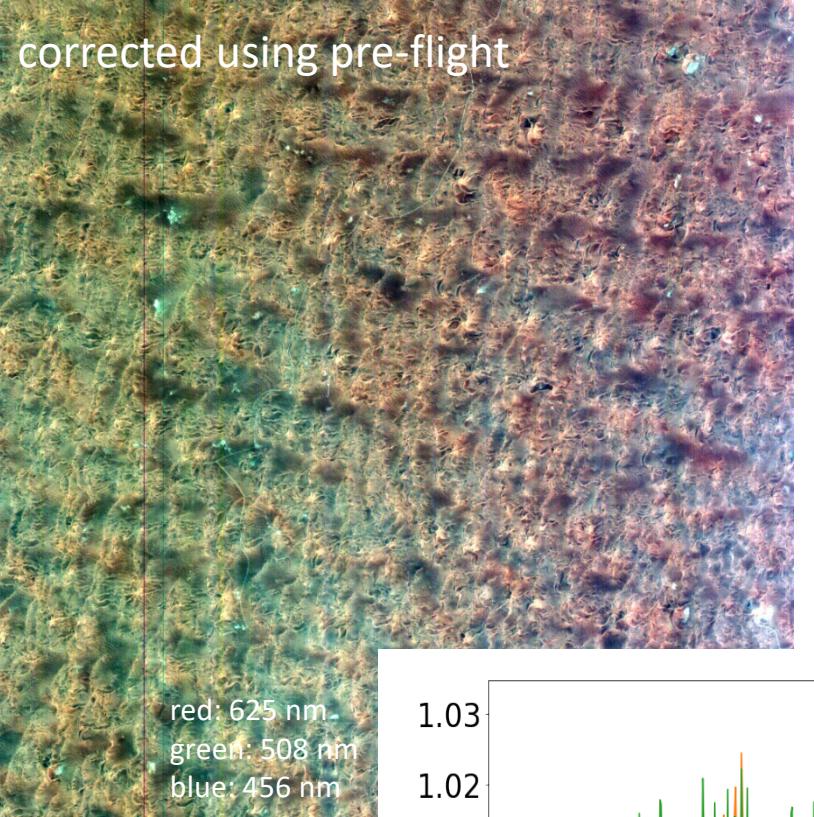


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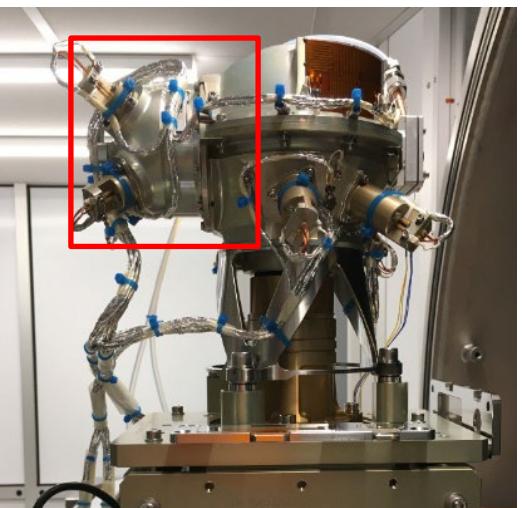
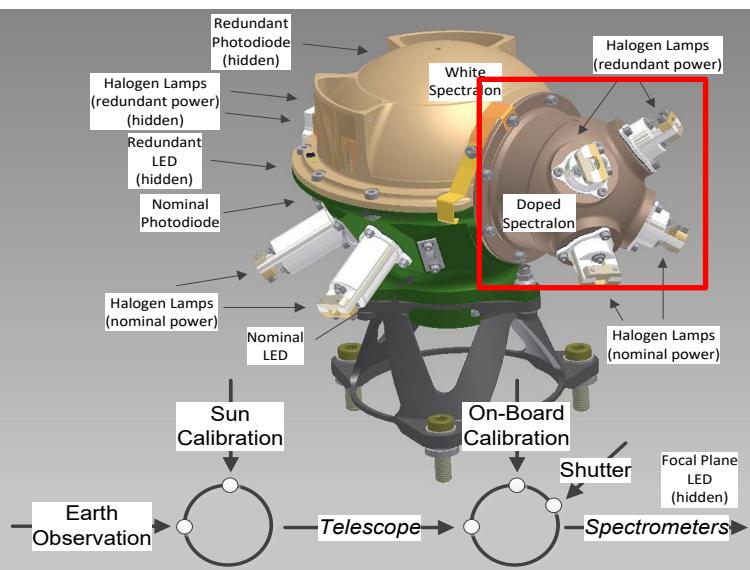
Radiometric Calibration (Response Non-Uniformity)



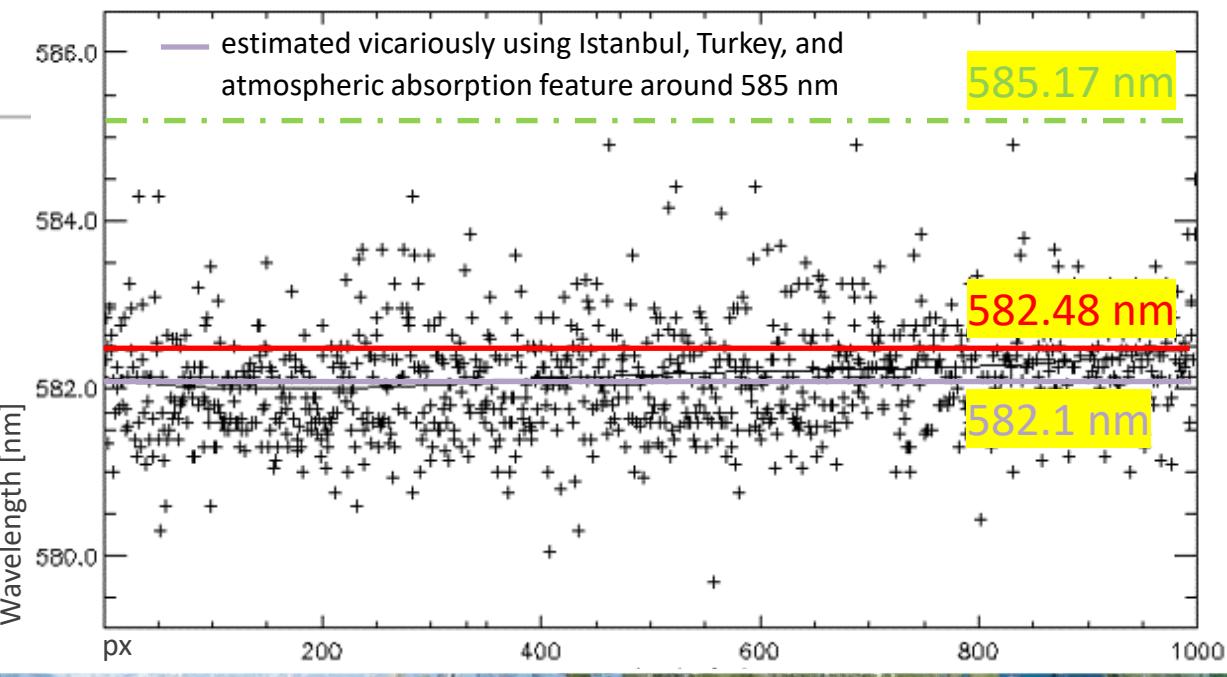
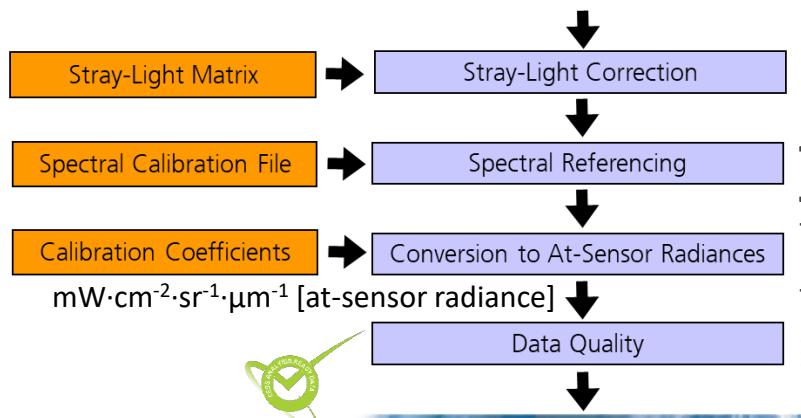
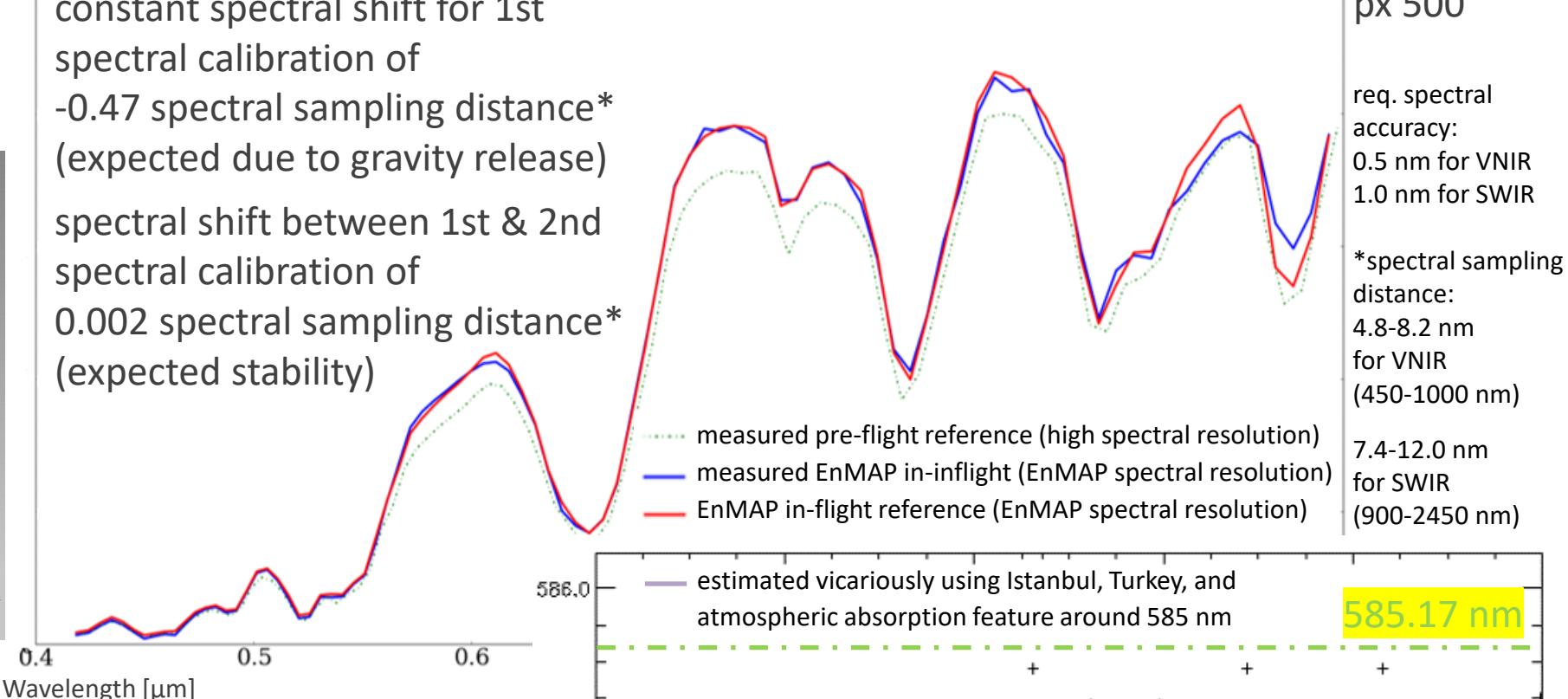
req. radiometric accuracy: 5%



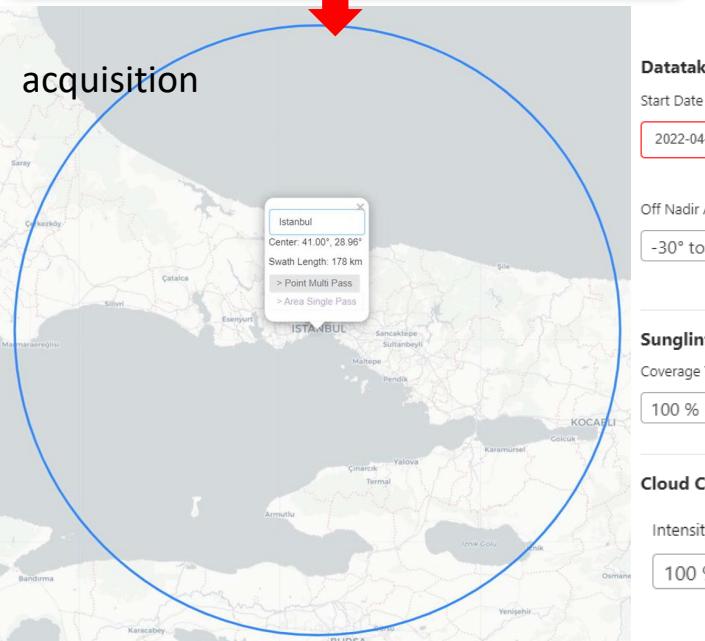
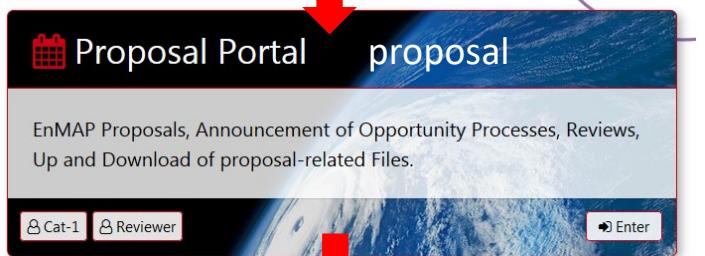
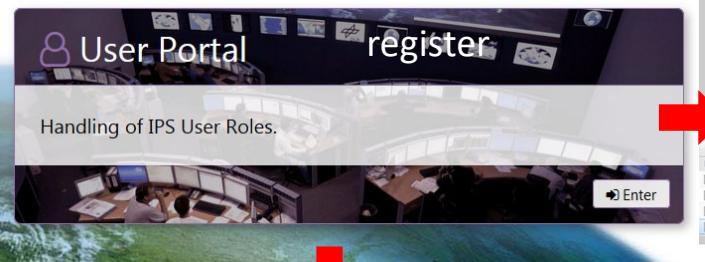
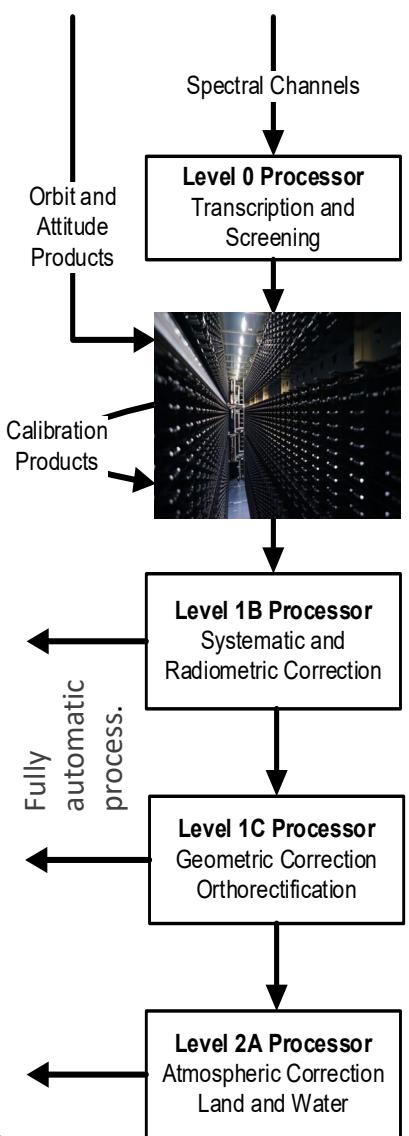
Spectral Calibration



constant spectral shift for 1st
spectral calibration of
-0.47 spectral sampling distance*
(expected due to gravity release)
spectral shift between 1st & 2nd
spectral calibration of
0.002 spectral sampling distance*
(expected stability)



Processor & Observation



EOC EOWEB® GeoPortal

Home Collections Products Maps Cart (0)

Filter Management Filter: Collections

access (free and open)

Filter by Region Filter by Time Filter by Collection

Nr	Avail	Product Type	Start Date	End Date	Mission/Satellite	Sensor Mode	Satellite Number	SensorInstrument	Pass Direction	Cloud Coverage	Orbit	Datatake Id	Tile Id	Version
1	●	ENMAP HSI L0	2022-05-04T10 51 08.946Z	2022-05-04T10 51 13.394Z	EnMAP	HSI	1	EnMAP	DESCENDING	0	472	5	1	01.00.02
2	●	ENMAP HSI L0	2022-05-04T10 51 08.946Z	2022-05-04T10 51 13.394Z	EnMAP	HSI	1	EnMAP	DESCENDING	0	472	5	1	01.00.02
3	●	ENMAP HSI L0	2022-04-27T09 28 58.591Z	2022-04-27T09 29 03.126Z	EnMAP	HSI	1	EnMAP	DESCENDING	0	364	1	3	01.00.02
4	●	ENMAP HSI L0	2022-04-27T09 28 54.139Z	2022-04-27T09 28 58.674Z	EnMAP	HSI	1	EnMAP	DESCENDING	0	364	1	2	01.00.02

In the list below you will find the items you have selected for direct download and for offline processing. Under View/Edit Specification you can review the download and ordering options you have specified for each item. To continue please press the 'Proceed to checkout' button at the top right.

Please note that currently your shopping cart contents will not be available after logging out of EGP. You can access your submitted orders on the Home tab.

Items for Download (0)

Items for Offline Processing (1)

ENMAP.HSI.L0:dims_nz_pl_dtd_XXXXB00000000609774862968:dims_op_pl_dtd://ENMAP.HSI.L0

Start: 2022-04-27T09 28 54.139Z, Stop: 2022-04-27T09 28 58.674Z, Orbit Direction: DESCENDING, ProcessingLevel: L2A, proc.enMapProjection: UTM_Zone_of_Scene_Center, proc.enImageResampling: Bilinear_Interpolation, proc.enCorrectionType: Combined, proc.enWaterReflectanceProduct: Normalized_Rrs, proc.enCirrusHazeRemoval: No, proc.enBandInterpolation: No, proc.enTerrainCorrection: Automatic, proc.enSeason: Automatic, proc.enWaterType: Turbid, proc.enFormat: GeoTIFF+Metadata, ftps, file

Items for Future Ordering (0)

Items for Datatake Parameters changeable for each datatake anytime before submission...

Start Date (UTC Time): 2022-04-27

End Date (UTC Time): 2022-04-27

Off Nadir Angle: -30° to 30° (NEW7)

Path Direction: descending

Swath Length (km): 178

Sunglint Default Parameters used for all datatakes...

Coverage Threshold: 100 %

Intensity Threshold: 100 %

Threshold Type: avoid interference

Cloud Coverage Default Parameters used for all datatakes...

Intensity Threshold: 100 %

Coverage Threshold: 100 %

Threshold Type: avoid interference

Source: DLR

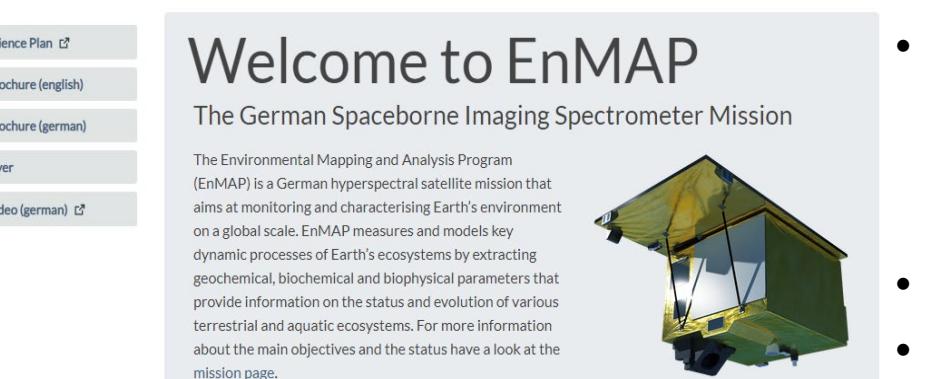
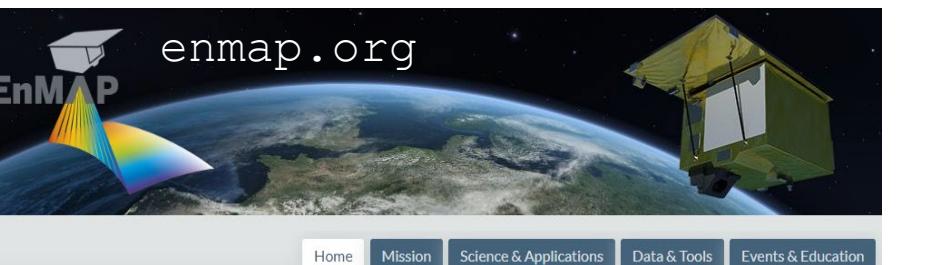
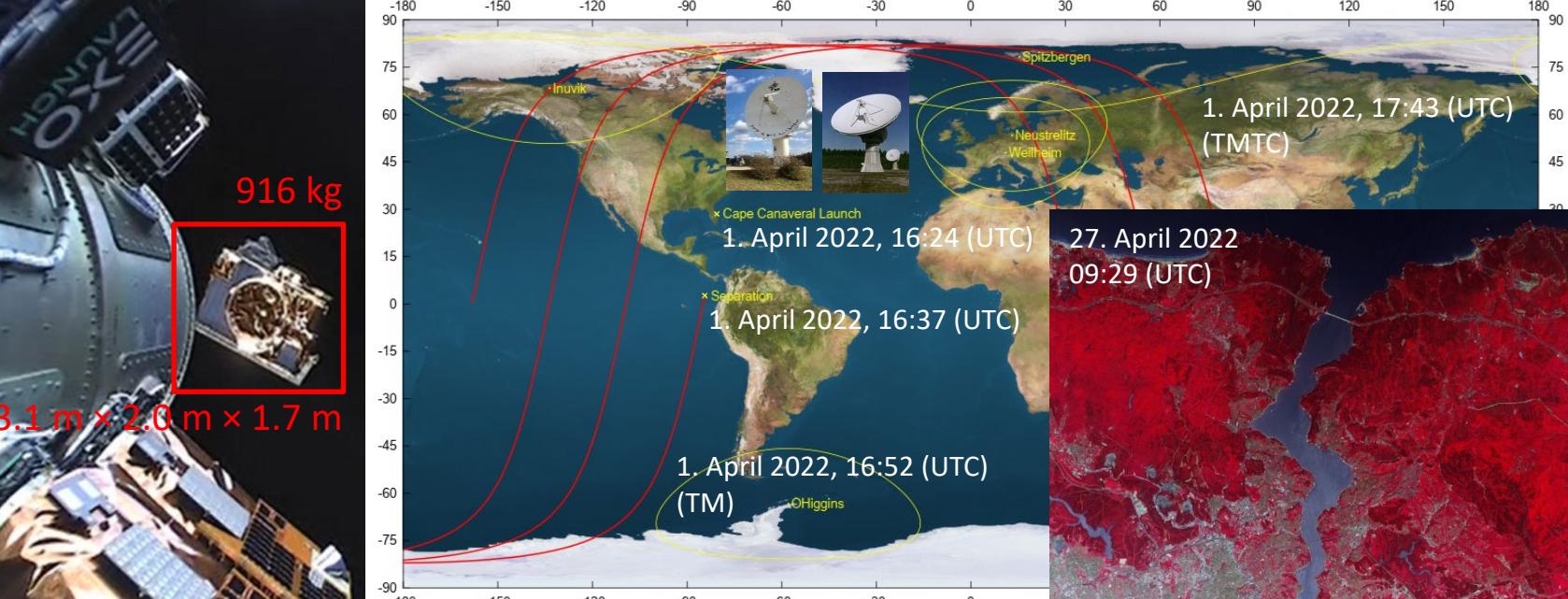
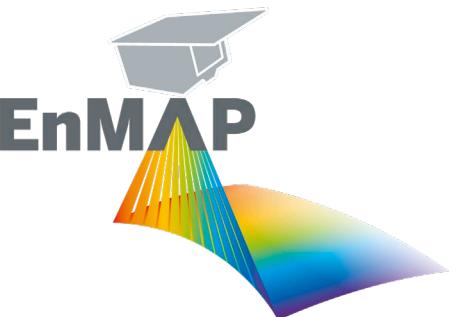
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darkBeforeQualityScreeningResult: OK
darkAfterQualityAvailable: yes
darkAfterQualityScreeningResult: OK
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missingSPCPixelsSWIR: 0.0
numberOfChannelsMissing: 0

qualityFlags
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overallQualityVNIR: 0
overallQualitySWIR: 0
stripingBandingVNIR: 0
qualityRadiometrySWIR: 0
saturationCrossTalkVNIR: 0
saturationCrossTalkSWIR: 0
generalArtifactsVNIR: 0
generalArtifactsSWIR: 12
deadPixelsVNIR: 2

Thanks!

- tobias.storch@dlr.de

- Funded by  Federal Ministry for Economic Affairs and Climate Action



- Sun-synchronous polar repeat orbit with 398 orbits in 27 days at 643 km altitude, 11:00 local time at equator (5 y)
- Revisit \leq 4 days using $\leq 30^\circ$ tilt
- $(1000 \times 30 \text{ m}) \times 5000 \text{ km} / \text{day}$

