cesnet

NATIONAL COLLGS MIRROR

Zdeněk Šustr

26 June 2019

- https://dhr1.cesnet.cz
  - „Standard" DHuS by ESA
    - v 2.0 since June 20th 2019
  - Web interface
  - API

- Docs at http://collgs.czechspaceportal.cz
- Covering the area of **Czech Republic** and immediate surroundings
  - + other areas of interest to cooperating teams
- **Full archive** for all platforms (S1, S2, S3)
  - Let us know about S5P
- **Support and Assistance**
- Non-trivial processing resources

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- In excess of 80 TB total
- Over 80 thousand products
- 96 thousand dwls. past year
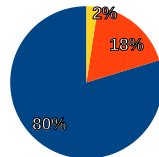- Most popular download 137×
  T32UQA_20171016T101009_B01.jp2
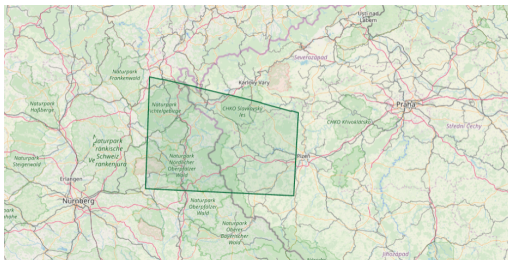
Size by platform
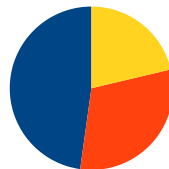
- Sentinel-1 40 TB
- Sentinel-2 26 TB
- Sentinel-3 18 TB

Overall Interest

2%
18%
80%

Z. Šustr, CollGS, cesnet

Platform	Delay since		vs. SciHub
	sensing	since publication	
S1	6.95 h	**2.91 h**	2.24 h
S2	11.05 h	**2.69 h**	2.50 h
S2 (L2A)	25.59 h	**2.69 h**	2.42 h
S3	109.14 h	N/A	42.35 h

Average between April 1st and June 16th 2019

Based on a sample of all 12,950 products

... as opposed to 10–30 hours reported a year ago

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- Sentinel-2 Atmospheric Correction
  - In-house throughout 2018
    - `Sen2Cor`
    - Proof of concept – grid processing framework
    - Over 7,000 CPU-hours dedicated
  - From ESA collaborative network since 2019
  - Let us know about applicability of other algorithms (`Sen2Agri`?)
- Looking at cloudless mosaics
- Requests/suggestions welcome

Demand is key!

- Support for specific use cases
  - Bulk processing assistance

> "If **you can** run it on your desktop, we can help you **run it ten thousand times in the grid**."

  - Grid jobs, Virtual machines, Containers
  - Efficient processing due to proximity of data and resources
- **cesnet** as a partner in R&D projects
  - Technological partner
  - Resource provider, integrator
  - Testbed and release process

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Need anything? Get in touch!

`<collgs@cesnet.cz>`

Thank you!