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“ESA Datalabs: a status report before the first public Beta version”

The ESA Datalabs team

ESA Datalabs is an open, collaborative platform to discover and analyse data from multiple ESA domains. ESA Datalabs allows users to bring their code to ESA’s infrastructure and have direct access to ESA’s archives – the system is currently co-located with ESAC archives. Using the system only requires a valid user account and a web browser, removing the need for local installation and configuration of software. ESA Datalabs is a full computational environment that range from new tools that have become de-facto standard for analysis, to complex legacy systems repackaged to run via a web browser. The underlying architecture of ESA Datalabs is domain agnostic: for example, customized JupyterLab environments are available for astronomers, scientists in Earth Observation related fields, or researchers in global navigation; the platform offers general-purpose development environments such as Octave, or domain-specific reference tools such as TopCat in astronomy, for reusability of existing code baselines.

We will provide a status report of the ESA Datalabs platform development. The presentation will be focused on the new features introduced recently, particularly those related to easy discovery and access to reference data sources and team work supported by shared workspaces. “