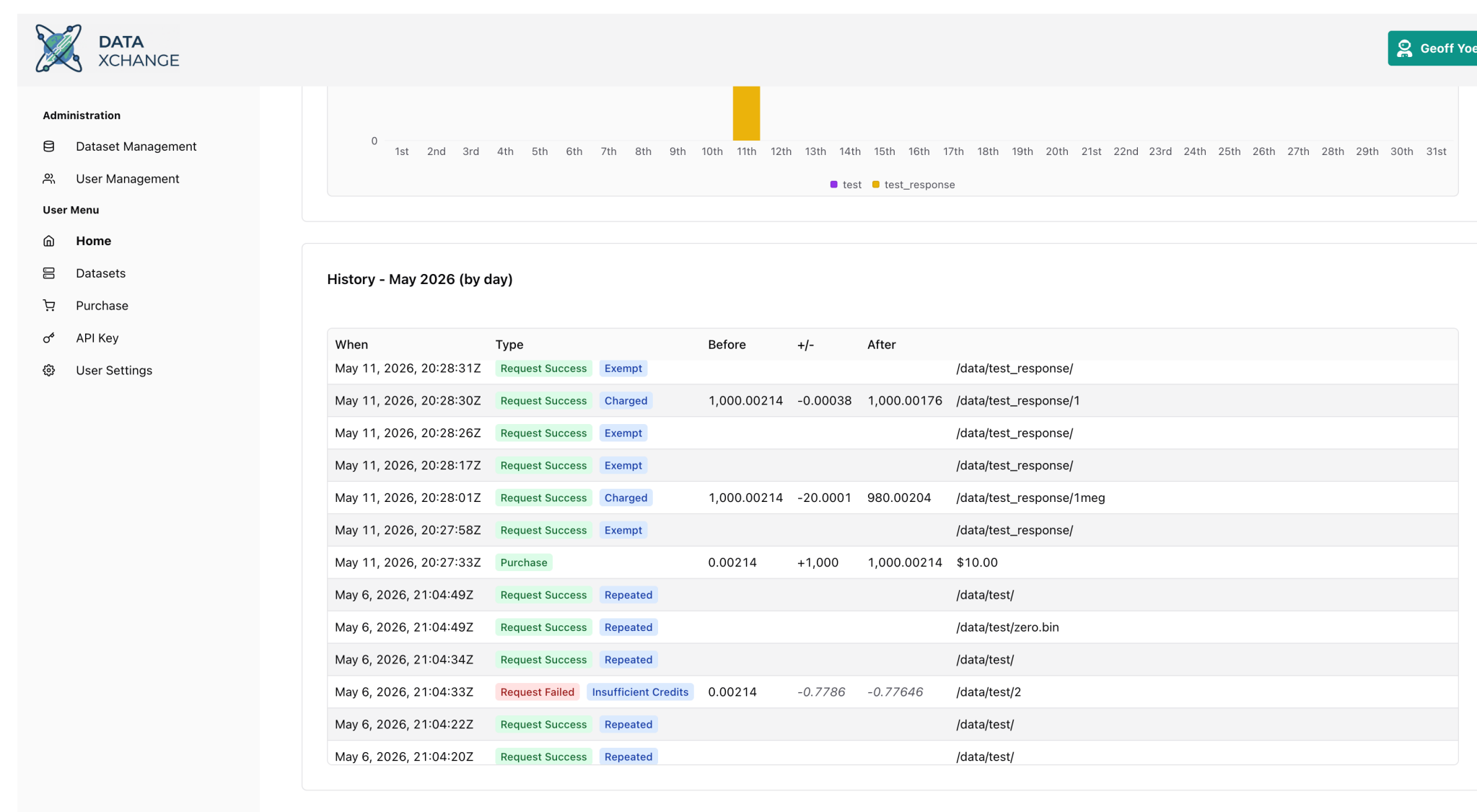
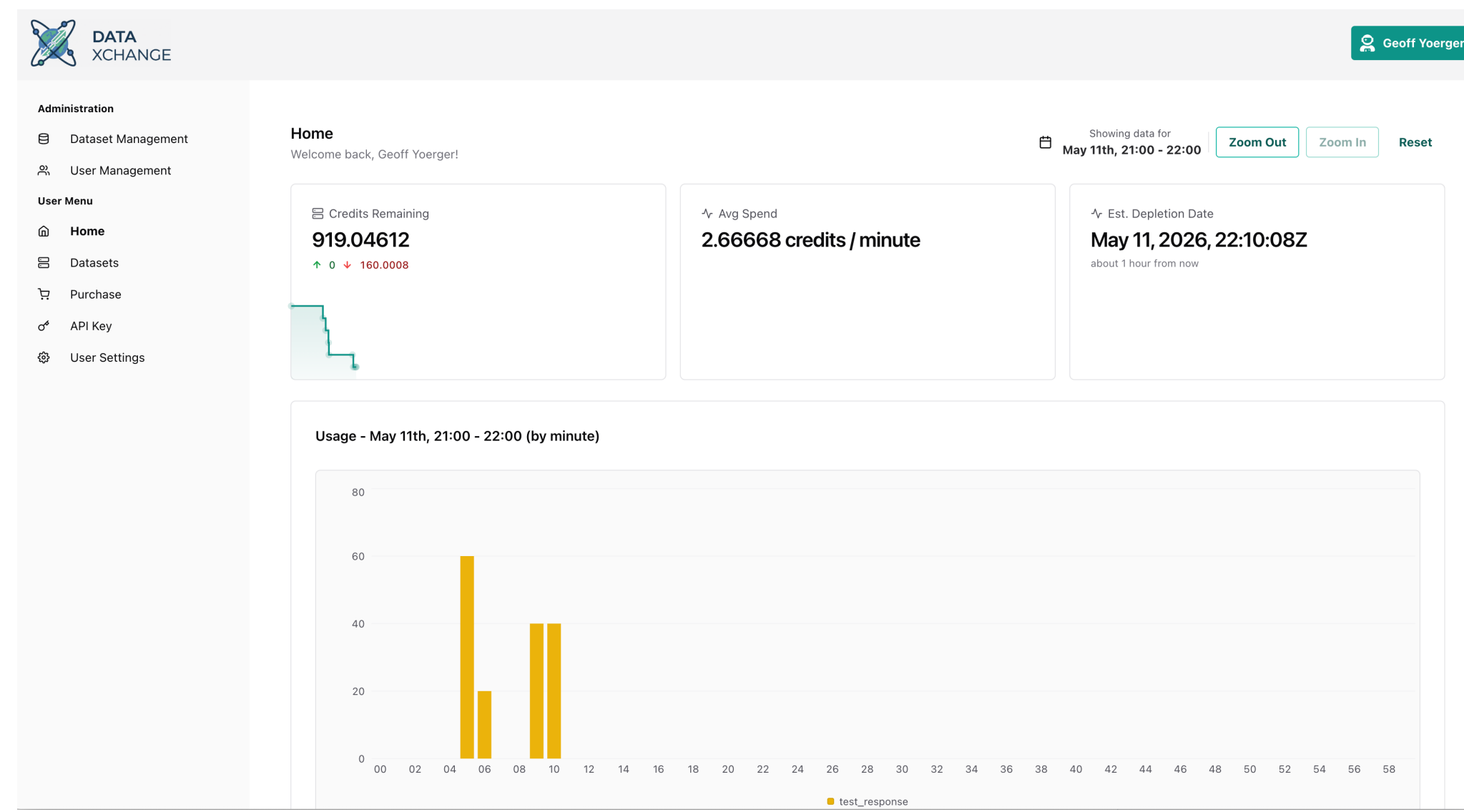


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The UW-Madison Space Science and Engineering Center (SSEC) is responsible for the generation of a wide range of meteorological data products. The distribution of these products is a highly variable process, ranging from specialized integrations to basic FTP or HTTP file servers. Providing access control and granular accounting for these distribution mechanisms is often a challenging task.

The **SDS Data Xchange** provides a novel access mechanism for fully self-managed HTTP-based access to a wide range of SSEC-managed datasets, through a unified browser or API-based interface.

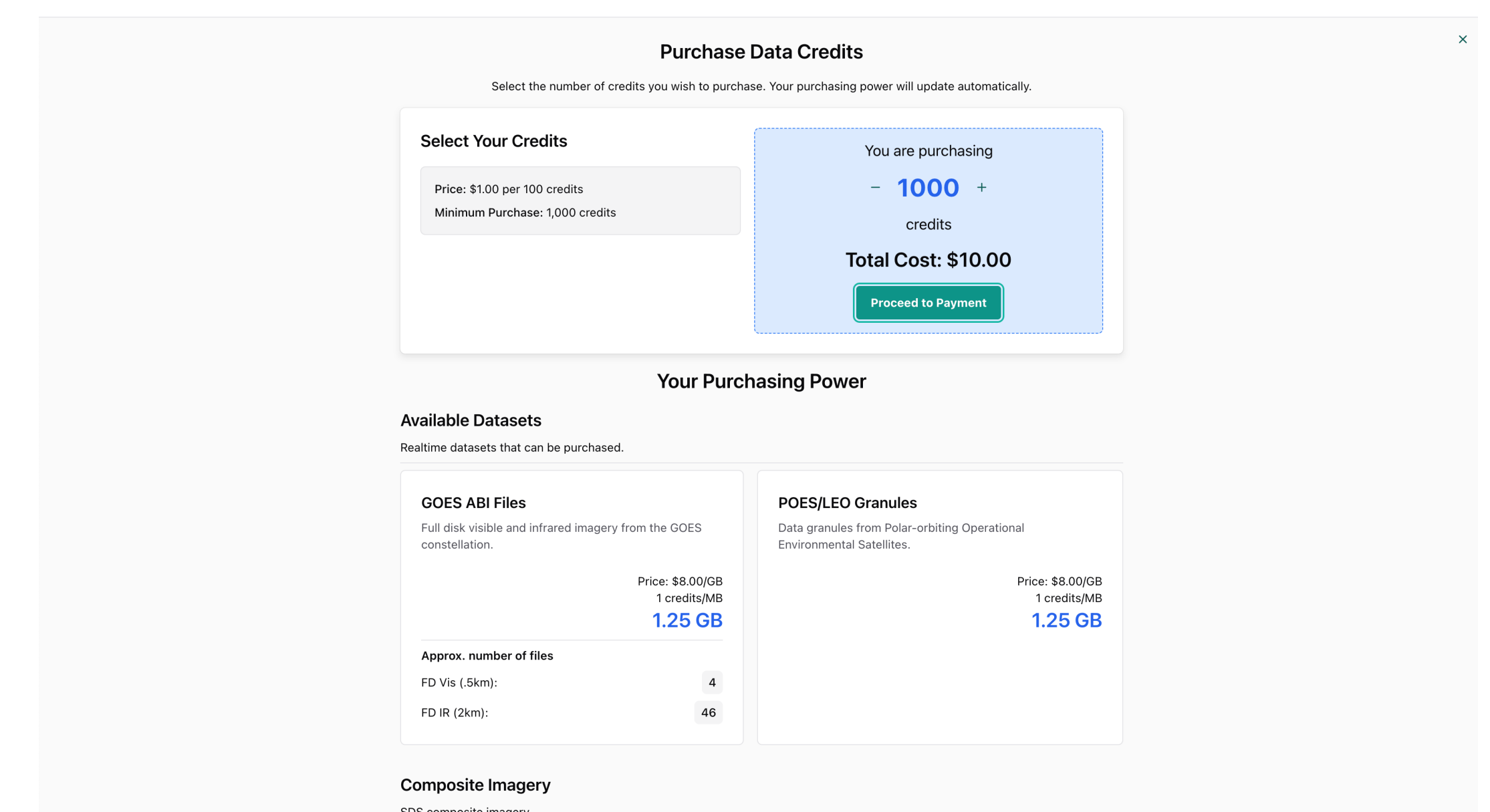
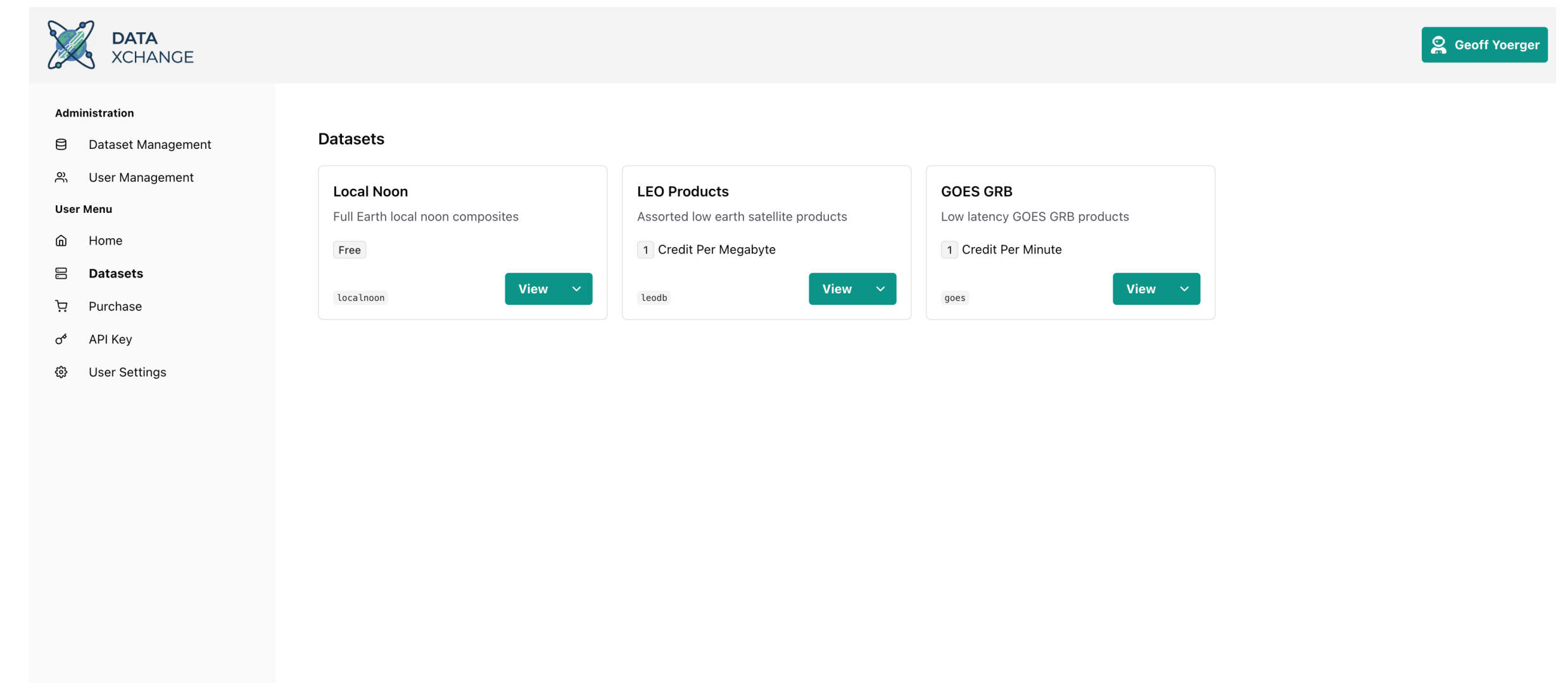


<https://xchange.ssec.wisc.edu>

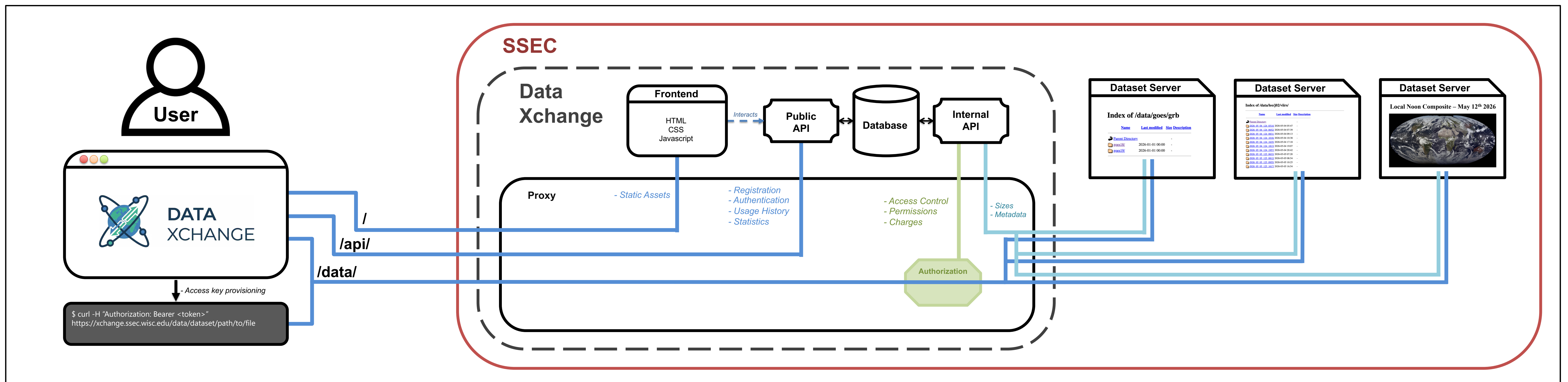
Demo:

Username: **cspp@test.com**
Password: **data_xchange**

Or sign up with your own email!



Architecture



System Features

Users

- Registration, Login, Password resets, etc.
- Browser access for inspecting and viewing datasets
- API access for automated flows
- Dashboard with history and statistics
- Dataset content browsing
- Self-managed purchasing, for cost-recovery datasets
- OAuth 2.0 compliant, including automated token refreshes
- Usage documentation

Administration

- Detailed accounting logs
- Dataset management
- User management
- Permission controls
- Diagnostic tools
- Streamlined onboarding process
- Optional dataset metadata reporting (thumbnails, etc.)

Datasets

- Low Latency GOES GRB
- Merged JPSS LEO products over CONUS
- WMTS TiTiler services
- Miscellaneous Level 2 products
- Geostationary satellite archive
- More LEO and GEO data to come...

