

AMMOS MarsViewer

A suite of image-viewing tools tailored for products from Mars in-situ missions

What is the problem?

Images captured by various Mars lander and rover missions are downlinked and processed by the mission ground data system. The resulting set of original image and derived products can be large and difficult to navigate. Also, many of the derived products contain data that is not easily interpretable as a simple image.

What is the solution?

Marsviewer is an application suite that provides data product discovery (both for original and derived), a set human-readable interpretations of non-imaging data products, and an interface to query and display raw data values.

Who are our customers?

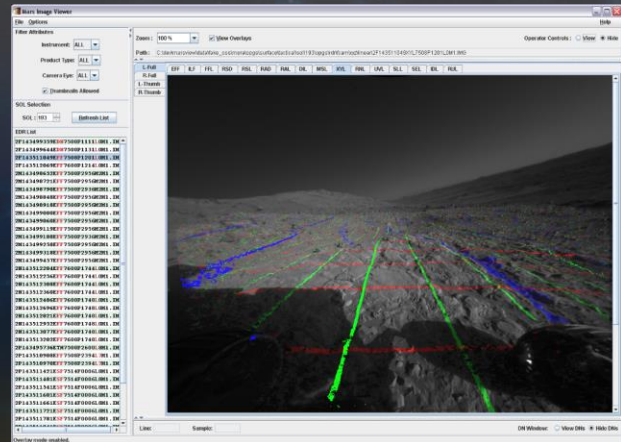
- Mars in-situ mission operations: MER, Phoenix, MSL, Insight, Mars2020
- Mars mission scientists
- PDS Imaging Node users
- QC tool for data processing developers

What capabilities are on offer?

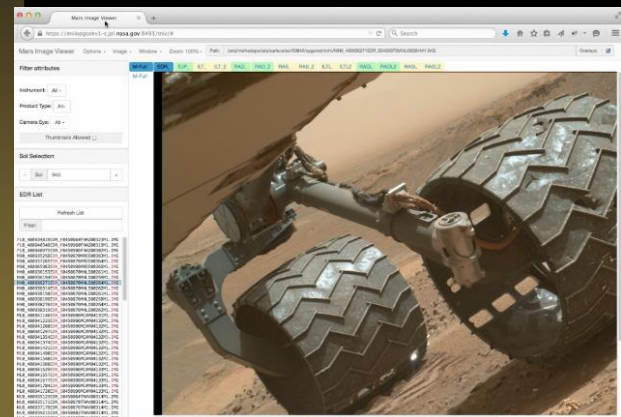
- Encapsulates mission-specific knowledge of product filename and repository structure
- Enhances the visual representation of products for improved understanding
- Designed with extensible architecture, ensuring flexibility with new missions and product types

What is included?

- Desktop client (runs on Win,OSX, Linux)
- Web-browser client (requires WebGL)



Marsviewer (desktop) displaying XYZ geometry product overlaid on-top of the linearized image. (X=red, Y=green, Z=blue)



Marsviewer (web-client) displaying MSL image pointed to wheels

AMMOS – Advanced Multimission Operations System, a NASA-sponsored set of products and services for mission operations systems

For more information and access to the AMMOS catalog – <https://ammos.nasa.gov>

Contacts:

Zsarina Benecken – Zsarina.M.Bulchand@jpl.caltech.edu
Glen Elliott – Glen.Elliott@jpl.caltech.edu