



EMIT Data Access

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EMIT in NASA Earthdata Cloud



Download Files AND AWS S3 Access

Region: **us-west-2**

Bucket/Object Prefix: **s3://lp-prod-protected/EMITL2ARFL.001** , **s3://lp-prod-public/EMITL2ARFL.001**

AWS S3 Credentials: [Get AWS S3 Credentials](#) | [View Documentation](#)

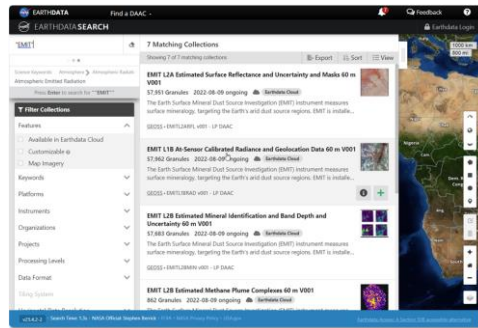
EMIT_L2A_RFL_001_20231206T160939_2334011_006.nc

EMIT_L2A_RFLUNCERT_001_20231206T160939_2334011_006.nc

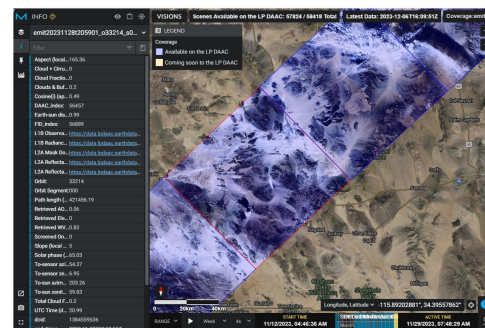
EMIT_L2A_MASK_001_20231206T160939_2334011_006.nc

EMIT Data Access

Earthdata Search



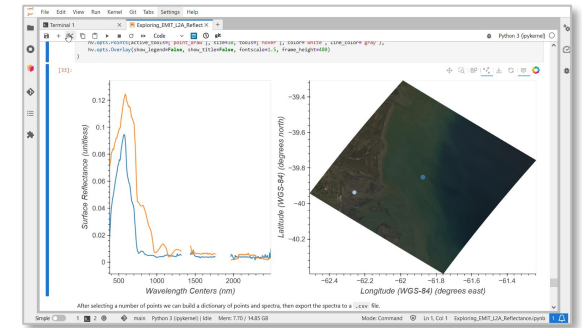
VISIONS



AppEEARS

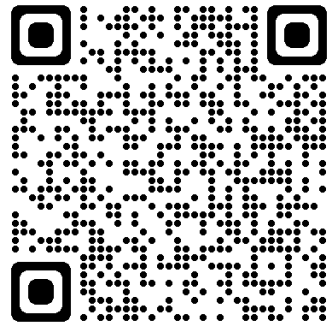


EMIT Data Resources



Earthdata Search

<https://search.earthdata.nasa.gov/search>

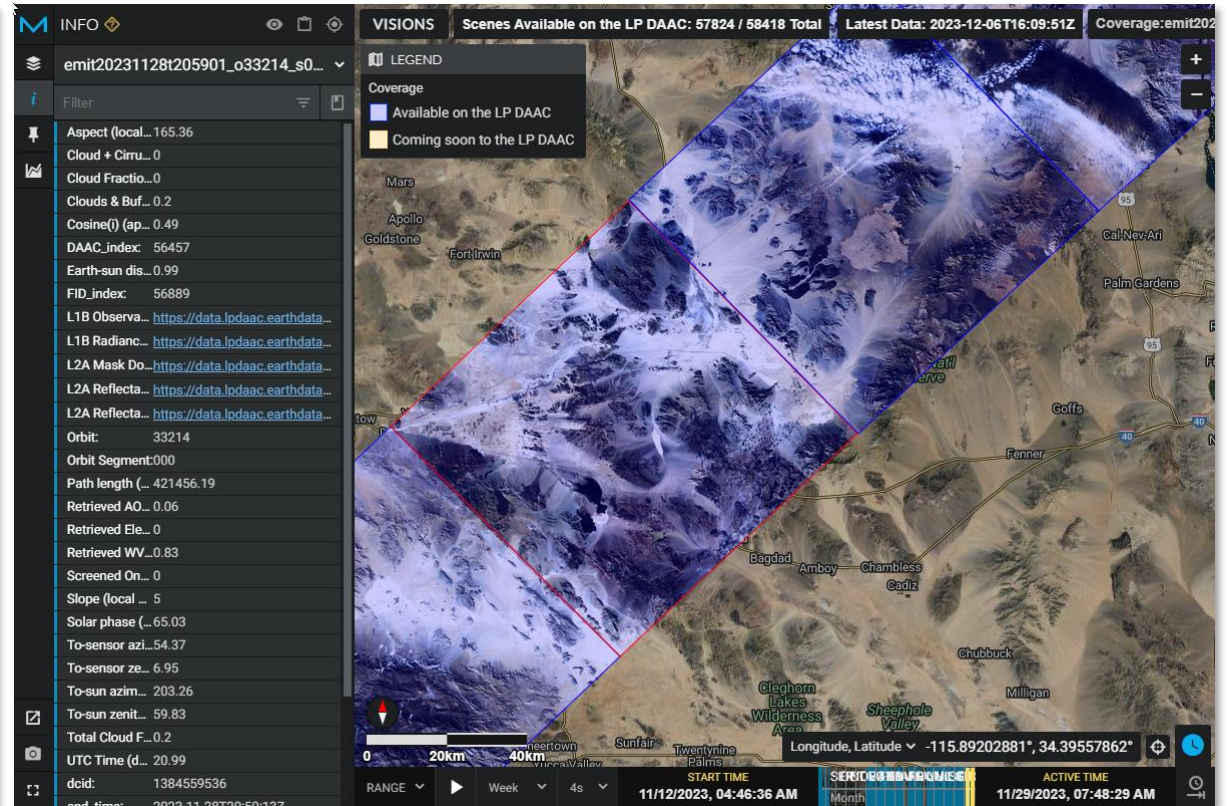
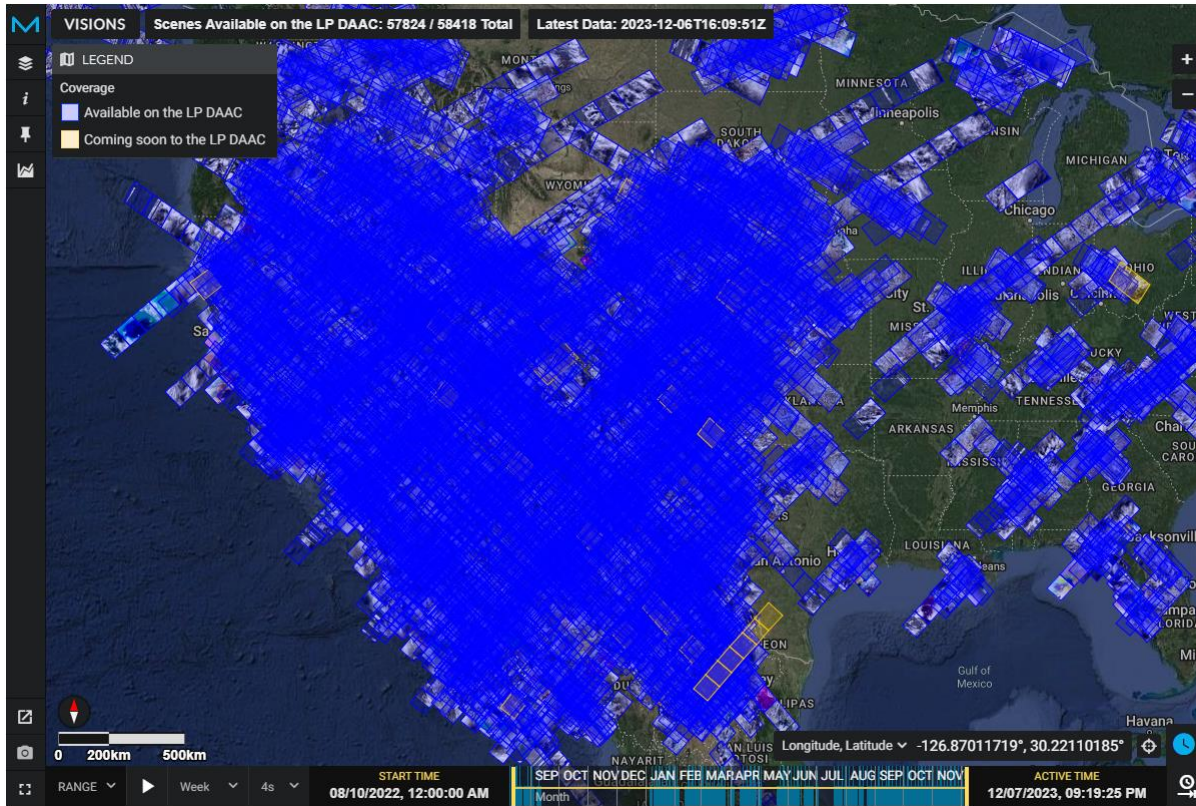
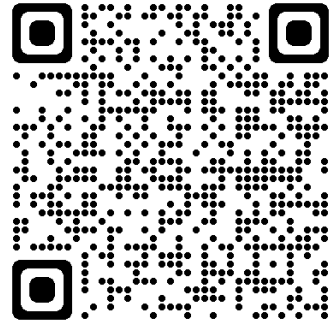


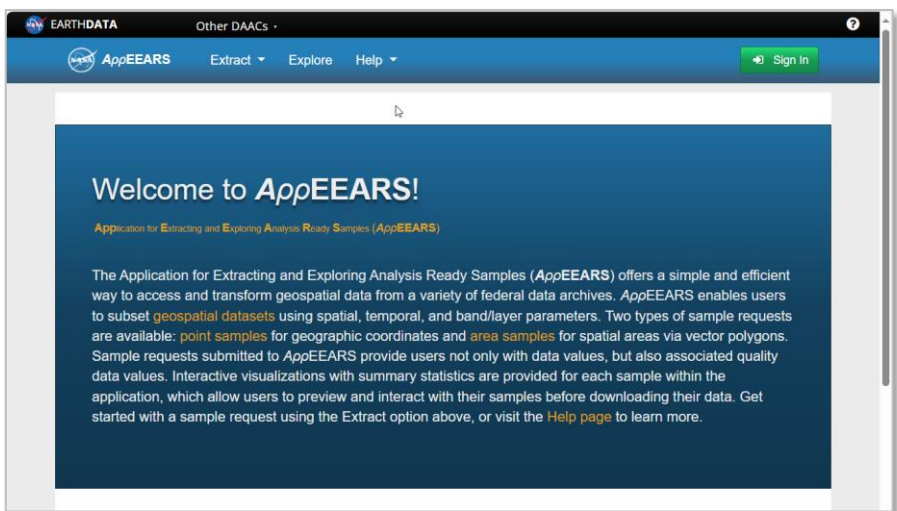
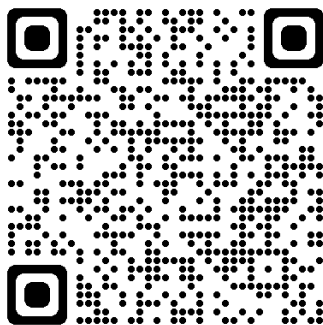
The screenshot shows the Earthdata Search homepage with the search term "EMIT" entered. The search results are displayed as a list of 7 matching collections. The first collection is "EMIT L2A Estimated Surface Reflectance and Uncertainty and Masks 60 m V001" with 57,951 granules. The second is "EMIT L1B At-Sensor Calibrated Radiance and Geolocation Data 60 m V001" with 57,962 granules. The third is "EMIT L2B Estimated Mineral Identification and Band Depth and Uncertainty 60 m V001" with 57,683 granules. The fourth is "EMIT L2B Estimated Methane Plume Complexes 60 m V001" with 862 granules. A sidebar on the left contains filter options for Features, Keywords, Platforms, Instruments, Organizations, Projects, Processing Levels, and Data Format. A map on the right shows the search area over Africa and the Middle East.

The screenshot shows the granule search results for the selected collection. The search term "EMIT" is entered, and the results show 20 of 57,951 matching granules. The granules are displayed in a grid with their IDs, start and end times, and thumbnail images. A "Filter Granules" sidebar on the left allows filtering by Granule ID(s), Temporal (Start, End, Recurring?), and Day/Night. A "Download All" button is visible at the bottom right of the granule list. A timeline at the bottom shows the search results for the month of August 2024.

VISIONS: The EMIT Open Data Portal

<https://earth.jpl.nasa.gov/emit/data/data-portal/coverage-and-forecasts/>





<https://appears.earthdatacloud.nasa.gov/>



- Subset by:
- Spatial domain
 - Band
 - Time

AppEEARS Extract Explore Admin Help

afriesz

Upload coordinates from a file

Drop a CSV file containing the coordinates or [click here](#) to select the file. Coordinates can also be entered manually in the uploaded coordinates box.

The CSV file can contain up to 4 columns separated by commas with each coordinate on a separate line.

1. ID (optional) - uniquely identifies the coordinate
2. Category (optional) - label to group common coordinates
3. Latitude - latitude in decimal degrees (-90 to 90)
4. Longitude - longitude in decimal degrees (-180 to 180)

Uploaded coordinates (ID, Category, Lat, Long): 7

```
41.050196170806885, -122.08547350081659
35.847071170806885, -118.98872427372271
38.097071170806885, -118.1441563026971
32.050196170806885, -109.41695393543246
31.909571170806885, -113.21750980504771
33.175196170806885, -103.78650079526174
35.284571170806885, -100.54899023966358
```

Start Date: 11-01-2023 **End Date:** 12-07-2023

Is Date Recurring?

Selected coordinates

Lat: 39.315 Lon: -94.562

Add coordinates using the tool. View coordinate details by clicking the markers on the map.

Select the layers to include in the sample

EMIT Estimated Surface Reflectance
EMIT_L2A_RFL_001, 60m, ISS-dependent, (2022-08-09 to Present)

- B001
60m, ISS-dependent
Reflectance for Wavelength: 381.006 nm, FWHM: 8.415 ...
- B002
60m, ISS-dependent
Reflectance for Wavelength: 388.409 nm, FWHM: 8.415 ...

Select All (286)

Selected layers

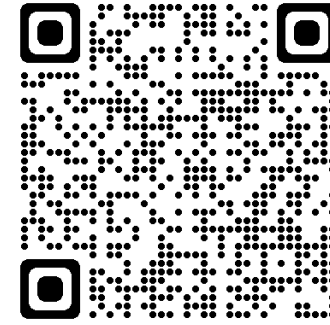
Select the layers to include in the sample

Submit **Cancel**

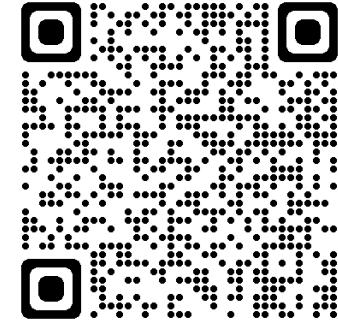
FOIA NASA Privacy Policy USA.gov Contact v3.39

EMIT Data Resources

Guides | Tutorials | How-tos



EMIT Data Resources



VITALS Repository

The screenshot shows the GitHub repository page for `nasa/EMIT-Data-Resources`. The repository is public and has 42 forks and 62 stars. It contains 4 issues, pull requests, actions, projects, security, and insights. The repository description states: "This repository provides guides, short how-tos, and tutorials to help users access and work with data from the Earth Surface Mineral Dust Source Investigation (EMIT) mission." The repository includes a README, Apache-2.0 license, and code of conduct. The file list includes `data`, `guides`, `img`, `python`, `setup`, `.gitignore`, `CHANGE_LOG.md`, `CODE_OF_CONDUCT.md`, `CONTRIBUTING.md`, `LICENSE`, and `README.md`.

The screenshot shows a Jupyter Notebook interface with a terminal window and a plot. The terminal window displays the following code:

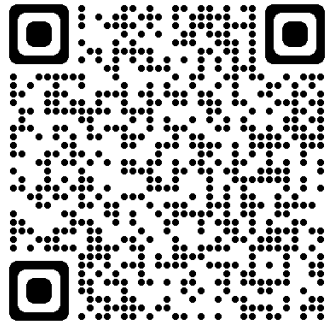
```
nv.opts.Points(active_tools=[ 'point_draw' ], size=10, tools=[ 'hover' ], color= 'white' , line_color= 'gray' ),  
hv.opts.Overlay(show_legend=False, show_title=False, fontsize=1.5, frame_height=480)
```

The plot shows Surface Reflectance (unitless) on the y-axis (ranging from 0 to 0.12) versus Wavelength Centers (nm) on the x-axis (ranging from 500 to 2000). The plot displays two spectral curves, one in orange and one in blue, showing a peak around 600 nm. Below the plot, the text reads: "After selecting a number of points we can build a dictionary of points and spectra, then export the spectra to a .csv file."

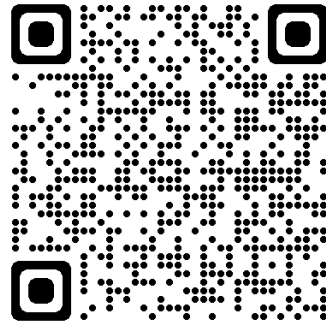
The second plot shows Latitude (WGS-84) (degrees north) on the y-axis (ranging from -39.4 to -40.2) versus Longitude (WGS-84) (degrees east) on the x-axis (ranging from -62.4 to -61.4). The plot displays a map of a region with two blue dots indicating selected points.

EMIT Data Access Recap

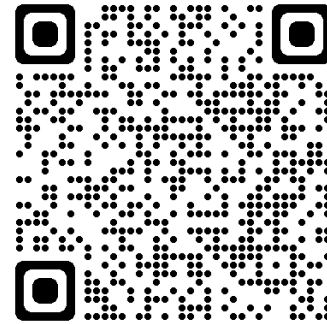
Earthdata Search



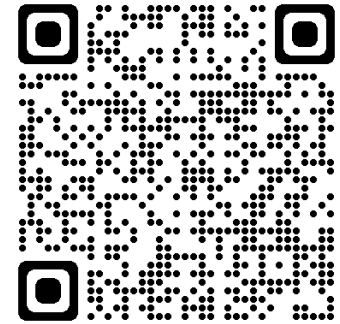
VISIONS

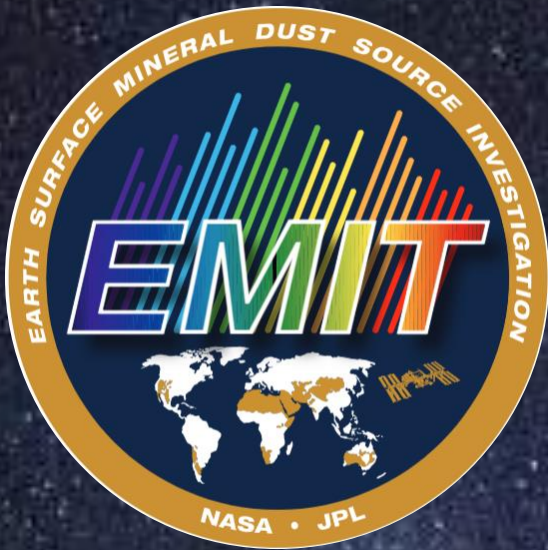


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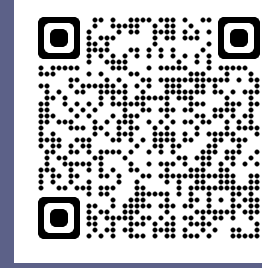


Open Code Repositories

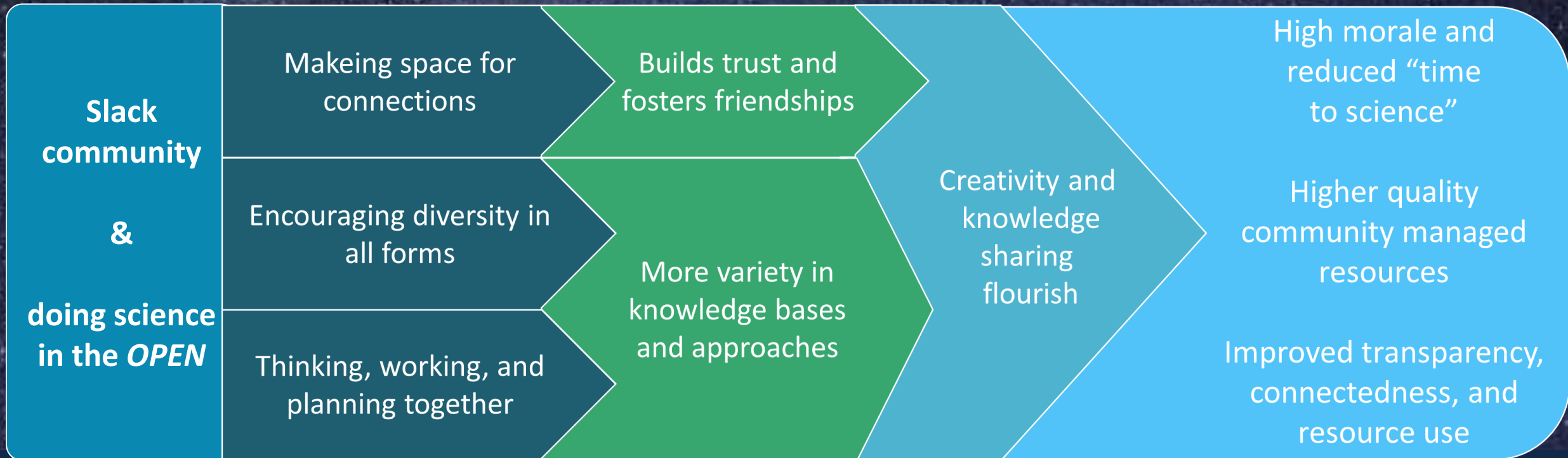
EMIT SDS



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VITALS



Open Science approaches are collaborative and empowering