A user can draw point, lines, or polygons type objects. Once an object is drawn the user can perform a search action.

<table>
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<tr>
<th>Summary of Actions for different Drawn Objects</th>
<th>17 search/action types!</th>
</tr>
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</table>

*Note: More actions can be added based on community feedback.*
Examples of QuickMap Search Tools

Point Based Search Tools

Point Based Search Tools allow to search for products, using 3 different actions, as shown below:

- **Point Query Option**
  - *M3 Spectra*
    - List of M3 images with regional previews, radiance, and apparent reflectance plots of chosen location.
    - User can download a hyperspectral subcube.

- **Projected NAC (test batch)**
  - Zoom-out to zoom-in context views of available NAC images at the chosen location.
  - 100m => 25m => 5m => 1m

- **Public targeting preview**
  - LROC target submission interface for the general public.

*(stand alone external resource)*
Examples of QuickMap Search Tools

Line Based Search Tools

Line based search tools allow to inspect line profiles using 2 different actions, i.e. DEMs and also access M3 calibration plots.

DEM Profiling

Example: This link shows profiles of the different DEMs now in QuickMap. To see it, go to the draw/search tool, and select Feature#1. Also note that in the layers tree, the SLDEM2015 is displayed using the same palette as GLD100.

Zoomed-in on NAC DTM

M3 L2 Calibration Steps

This tool provides detail information on all parameters used in the calibration of hyperspectral data for M3.

If there is high resolution NAC based DTM it will be used!
Examples of QuickMap Search Tools

Closed Polygon Based Search Tools

Closed Polygons allow to do search/act over an area of interest (AOI). Presently it allows for 12 different actions!

The different actions are:

- 3D printing (of ROI)
- ALL LROC products
- Hiesinger Mare Age Units
- M3 (list over ROI)
- M3 observations (generate links to summary info)
- NAC
- NAC (unfiltered)
- NAC DTMs
- NAC Feature Mosaics
- NAC Regional Mosaics
- NAC Stereo
- WAC
Examples of QuickMap Search Tools

3D printing (of ROI)
Create a custom 3D model export (for 3D printing) and interactive visualization.

Note: detail info on back of 3D model

Hiesinger Mare Age Units
Mare Age (from crater counting)

M3 ⇒ Moon Mineralogy Mapper Observations
Interactive footprints and metadata for M3 observations within ROI
Note: each footprint is made out of multiple polygons.

ALL LROC products
List of NAC/WAC/Featured Images within ROI
The listing is limited to 50 records, contains key metadata and link to detailed page from ASU

LROC NAC images within ROI (9 records)

LROC WAC images within ROI (limited to 50 records)

M3 observations
Generates a list M3 observations within the AOI selected. The resulting list contains:
- image ID
- OP
- links to metadata

M3 Observations within ROI (12 records):
# Examples of QuickMap Search Tools

## NAC

**Interactive list of NAC images in ROI.**  
Note: EXCLUDES dark or bad quality images.

**Special Features:**
- for many images if there is data available it is possible to display the content of the NAC on-the-fly, not just the footprint, just by clicking on the image ID
- Another feature is that it is possible to change the stretching on-the-fly using the intensity slider.
- Allows interactive filtering

## NAC (unfiltered)

**Interactive list of NAC images unfiltered**  
Note: INCLUDES dark or bad quality images.

Same as above but shows ALL available footprints, **without any filtering for dark or bad quality images**

TBD: merge unfiltered and filtered into same source shapefile with a new attribute

## NAC DTM

**List of NAC DTM within ROI**  
The listing is limited to 50 records, contains key metadata and link to detailed page from ASU

## NAC Featured Mosaics

**List of NAC images selected as part of a featured mosaic**

The listing is limited to 50 records, contains key metadata

## NAC Regional Mosaics

**Interactive list of NAC Regional Mosaics within ROI.**

**NOTE:** for many items if there is data available it is possible to display the content of the Mosaic on-the-fly, not just the footprint, just by clicking on the mosaic ID

Another feature is that it is possible to change the stretching on-the-fly using the intensity slider

## NAC Stereo

**List of NAC images selected as part of a stereo pair**

The listing is limited to 50 records, contains key metadata

## WAC

**Interactive list of WAC images within ROI.**

**Special Features:**
- User can sort using different criteria.
Examples of QuickMap Search Tools

NOTE: NAC Search allows to filter by sub Solar Lon & Lat.