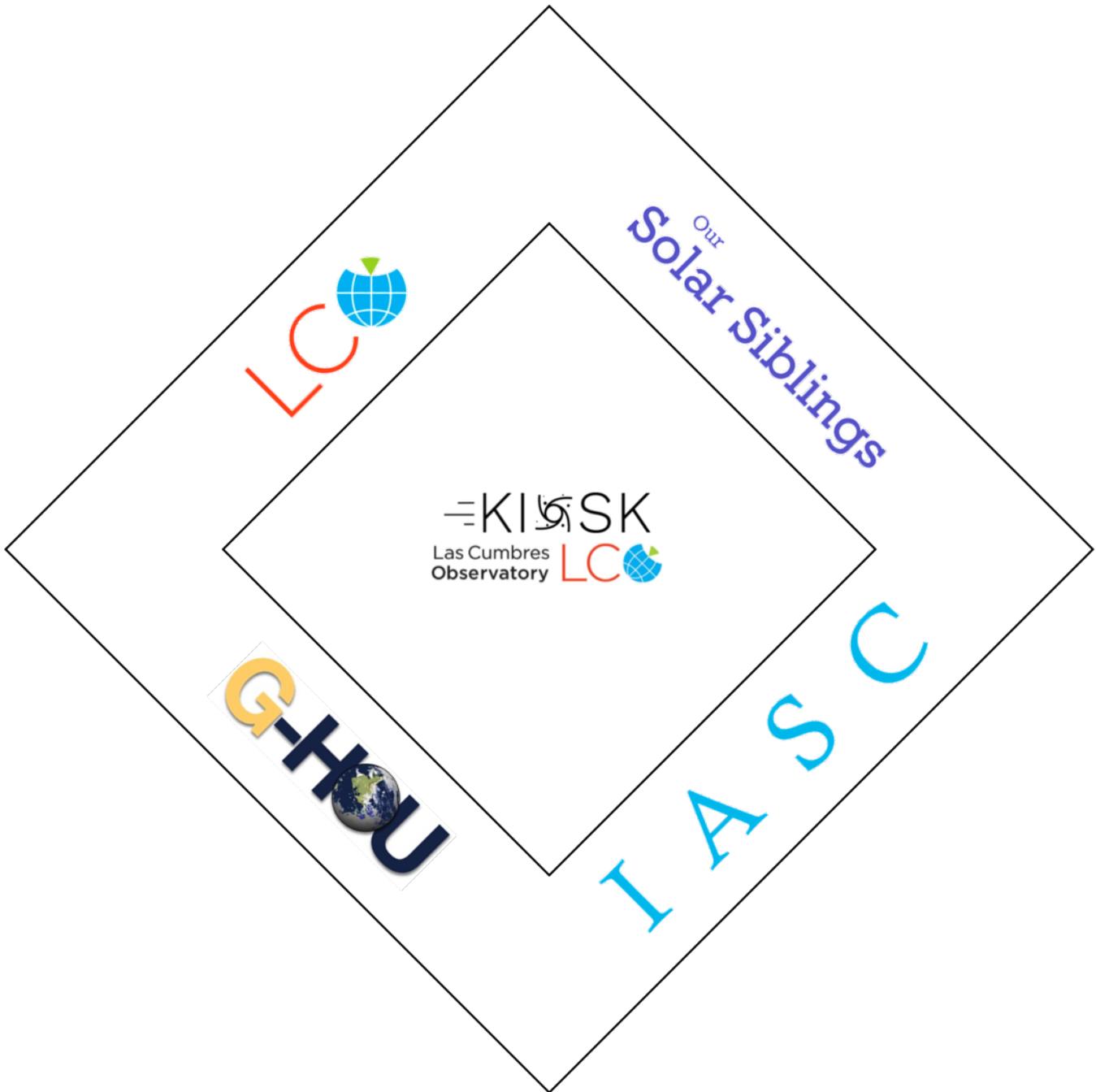


How to use the LCO Kiosk



Kiosk Instructions

1. Navigate to the LCO Kiosk website at <https://kiosk.lco.global/>
2. Enter your:
 - LCO Username
 - LCO Password

Then click on Login

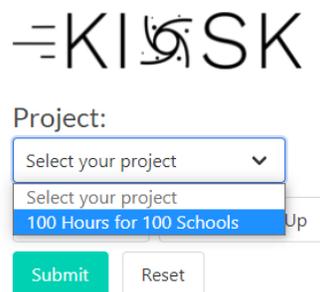


Username

Password

Login

3. After you log in, you need to choose a project. Here we are choosing 100 Hours for 100 Schools.



Project:

Select your project

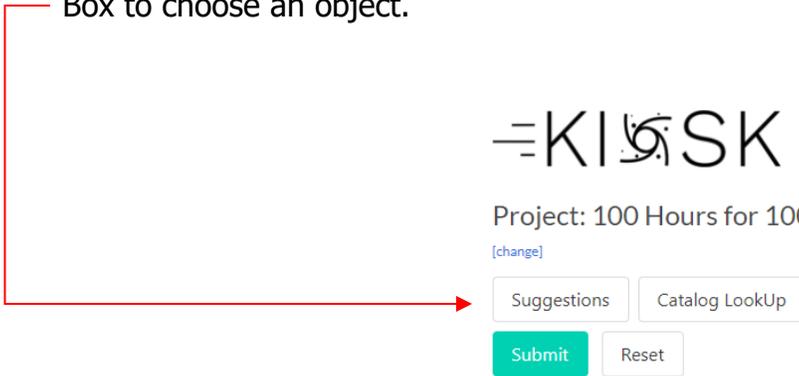
Select your project

100 Hours for 100 Schools

Submit

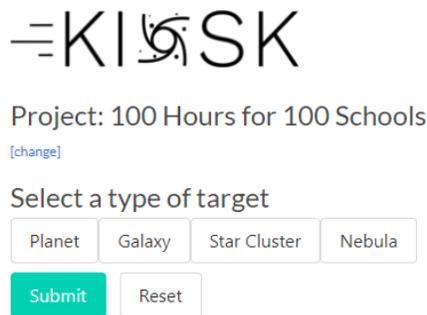
Reset

4. Next, you need to decide on what object you want to image. You can use the Suggestions Box to choose an object.



The screenshot shows the KISSK interface. At the top is the logo "KISSK" with a stylized telescope icon. Below it is the text "Project: 100 Hours for 100 Schools" with a "[change]" link. There are four buttons: "Suggestions" (highlighted with a red arrow), "Catalog LookUp", "Submit" (green), and "Reset".

Objects include planets, galaxies, star clusters, and nebulae.



The screenshot shows the KISSK interface. Below the "Submit" button, there is a dropdown menu titled "Select a type of target" with four options: "Planet", "Galaxy", "Star Cluster", and "Nebula". The "Submit" and "Reset" buttons are also visible.

NOTE: some suggested objects may not be visible as they may be too close to the Sun for the time of year you are submitting a request.

5. If you want to choose a particular Deep Sky Object, press the Catalog Lookup Button and enter the name of your target object. We are going to image M9.



The screenshot shows the KISSK interface. The "Catalog LookUp" button is now active, and a search input field is visible with "M9" entered. The "Search" button is highlighted in blue. The "Submit" and "Reset" buttons are also visible.

6. As an option, we are going to use the LCO Observation Window spreadsheet to verify M9's visibility. You can download the LCO Observation Window utility with instructions at <http://iasc.cosmosearch.org/Home/LCO>.

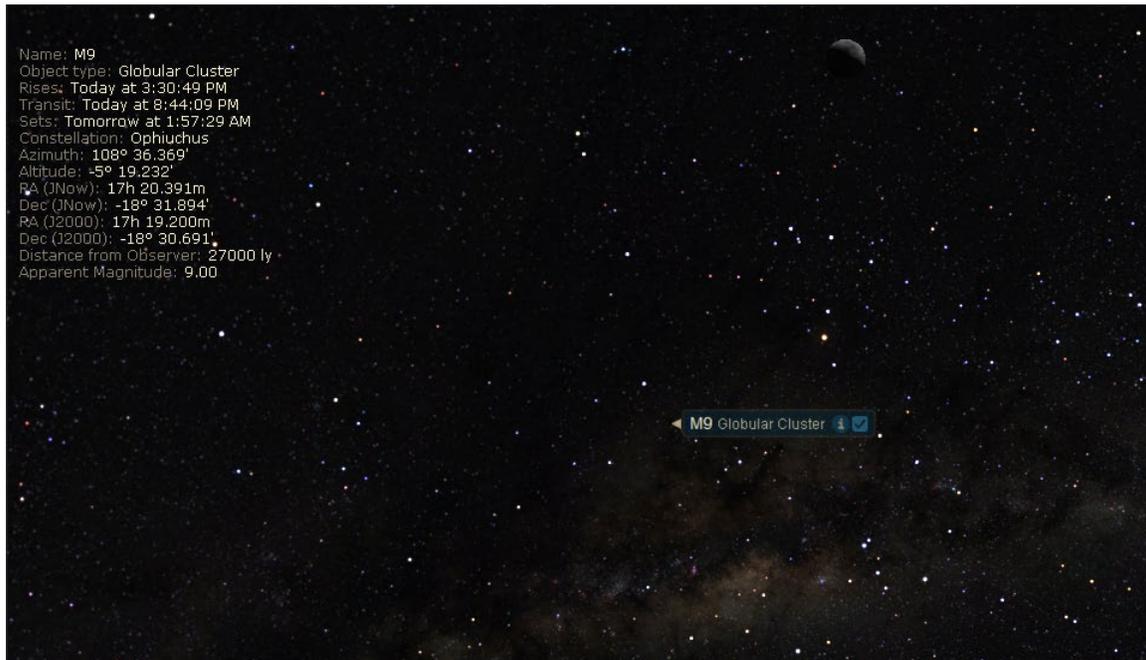
The screenshot shows the LCO website interface. At the top, there is a navigation bar with links for Home, Campaigns, Astrometrica, Hall of Fame, Staff, LCO, and Log in. Below the navigation bar, there are sections for '100-for-100 Instructions', 'Stellarium Instructions', and 'Additional Lesson Materials and Helpful Documents'. The 'Additional Lesson Materials and Helpful Documents' section contains a list of links, with 'LCO Observation Window Utility' circled in red.

7. We need to find the Right Ascension and Declination for M9 in order to use the LCO Observation Window spreadsheet. Resources you can use to find the Right Ascension and Declination include the Internet,

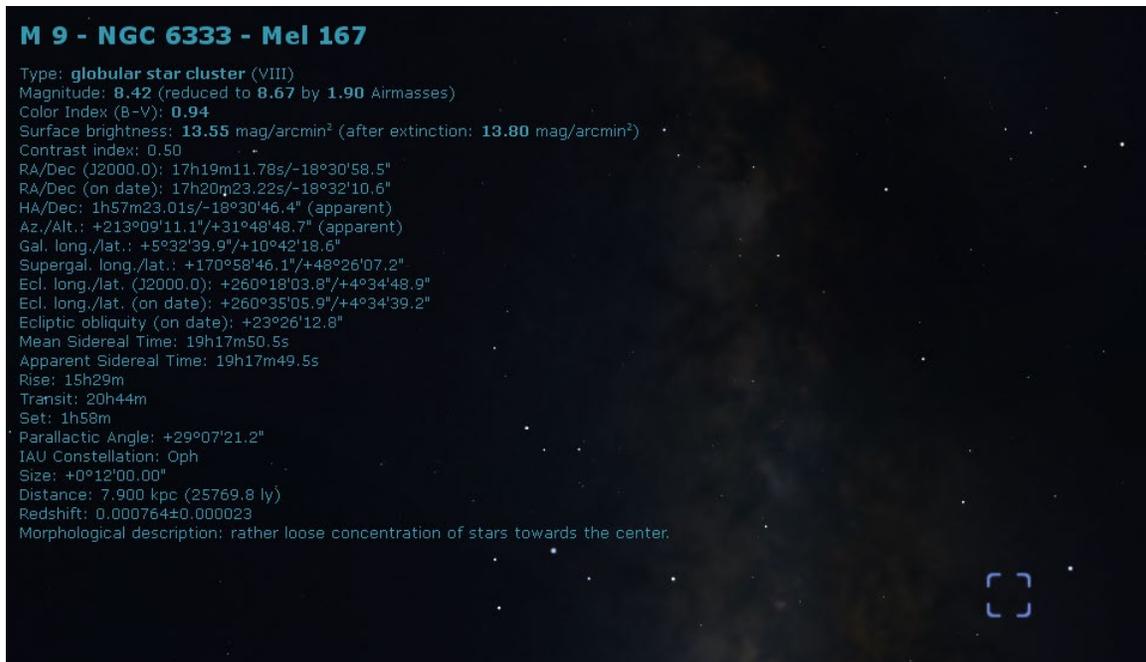
The screenshot shows the Wikipedia article for Messier 9. The article title is 'Messier 9' and it is described as a globular cluster in the constellation of Ophiuchus. The article includes a description of the cluster's discovery and characteristics. A 'Gallery' section shows two images: 'Messier 9, from 2MASS' and 'Map showing the location of Messier 9'. On the right side, there is a table of observation data for Messier 9.

Observation data (J2000 epoch)	
Class	VIII ^[1]
Constellation	Ophiuchus
Right ascension	17 ^h 19 ^m 11.79 ^s ^[2]
Declination	−18° 30′ 58.5″ ^[2]
Distance	25.8 kly (7.9 kpc) ^[3]
Apparent magnitude (V)	+7.9 ^[4]
Apparent dimensions (V)	9.3 ^[4]

Starry Night Software,

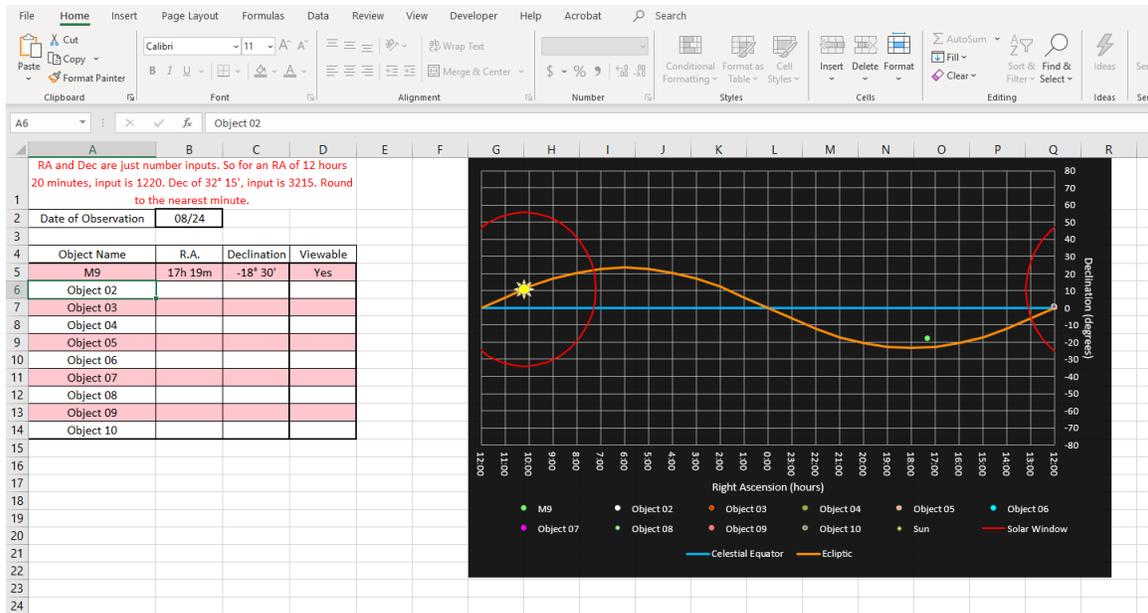


and Stellarium Software.



8. The Right Ascension needs to be in hours and minutes and the Declination needs to be in degrees and minutes. For the Right Ascension, use two digits for the hour and two digits for the minutes. For Declination, use two digits for the degrees and two digits for the minutes.

- Open the LCO Observation Window spreadsheet and enter M9 as the first object. Next, enter the Right Ascension and Declination using the four-digit format. The spreadsheet will return with a Yes or No for visibility.



- Click the Search Button and wait for LCO to confirm your object,

=KISK

Project: 100 Hours for 100 Schools
[change]

Target

then click the Submit Button.

KISSK

Project: 100 Hours for 100 Schools
[\[change\]](#)

Target

✓ M9 selected

M9 is a globular cluster located 25,800 light years away in the constellation Ophiuchus. It is one of the closest clusters to the centre of our galaxy.

If you submit a request and then discover the request was in error, click the Cancel Button.

Las Cumbres Observatory **LCO**

Past Observations

Target	Status	Actions
M9	🕒	<input type="button" value="Cancel"/>

11. Once an image request is completed click the Get Image Button.

KISSK

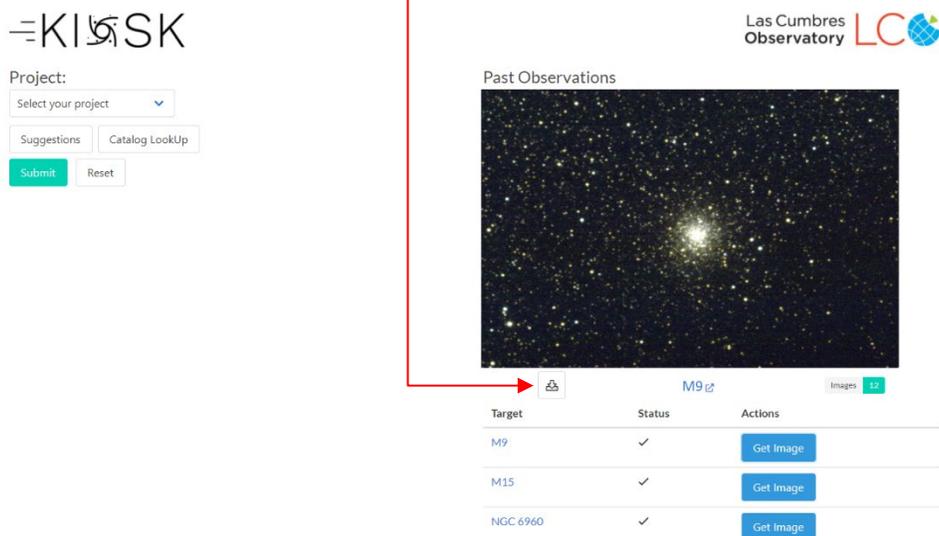
Project:

Las Cumbres Observatory **LCO**

Past Observations

Target	Status	Actions
M9	✓	<input type="button" value="Get Image"/>
M15	✓	<input type="button" value="Get Image"/>
NGC 6960	✓	<input type="button" value="Get Image"/>
NGC6960	✓	<input type="button" value="Get Image"/>

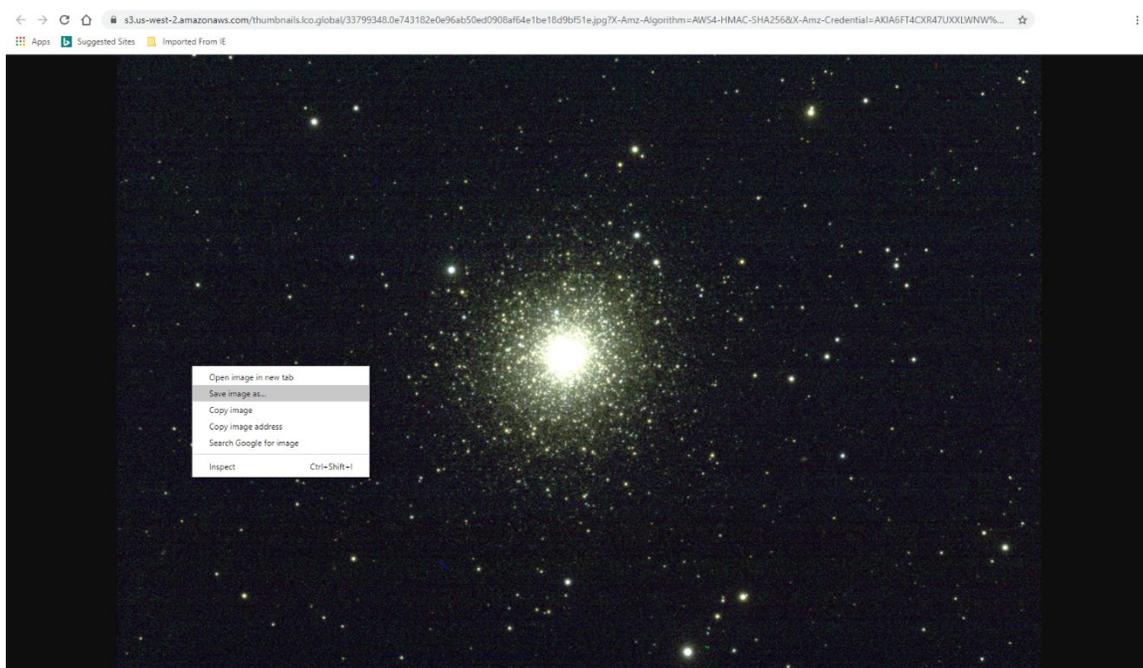
12. A preview of your image will appear. To download, click the button with the arrow located at the bottom left of the preview.



The screenshot shows the KISSK interface. On the left, there is a 'Project:' dropdown menu with 'Select your project' and buttons for 'Suggestions', 'Catalog LookUp', 'Submit', and 'Reset'. On the right, the 'Las Cumbres Observatory LCO' logo is visible. Below it, the 'Past Observations' section features a large image of a star field with a bright central cluster. A red arrow points from the text above to a download icon (a square with a right-pointing arrow) located at the bottom left of the image. Below the image is a table with the following data:

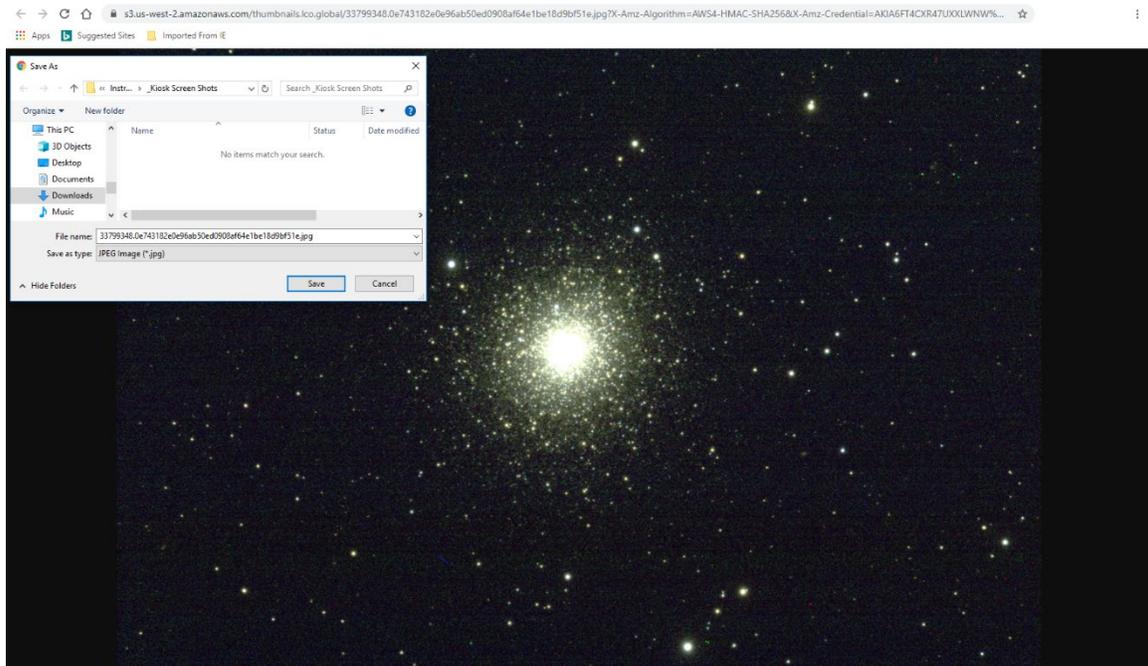
Target	Status	Actions
M9	✓	Get Image
M15	✓	Get Image
NGC 6960	✓	Get Image

13. This will open your image in a new window. Right click and select Save Image as...



The screenshot shows a web browser window with a URL starting with 's3.us-west-2.amazonaws.com'. The main content is a large image of a star field with a bright central cluster. A right-click context menu is open over the image, showing options: 'Open image in new tab', 'Save image as...', 'Copy image', 'Copy image address', 'Search Google for image', and 'Inspect' (with 'Ctrl+Shift+I' next to it).

14. You can change the name of the image as well as the folder location before saving.



Go Discover

