

Telescope Project

Due: Thursday, December 21, 2016

Goal: As a group, pick out a major telescope that looks at the Universe in the type of light your group was assigned. Find out the following information about and be ready to share it with our class.

1. Name of the telescope
2. Location of the telescope – why this is important if applicable
3. Who runs the telescope
4. Type of light the telescope can “see”
5. How the telescope works
 - a. General description: refractor, reflector, combination, interferometer, etc
 - b. Describe the actual detector – this is usually related to the wavelength
 - c. You should be able to explain how light moves through the telescope
6. What the telescope looks like
7. What images from this telescope look like
8. Astronomical objects this telescope has taken images of
9. Other pertinent or interesting information

Your group will be sharing the information with our class in a presentation. You can use electronic means to present but you also have to create a diagram (#2 below). REMEMBER: Electronic presentations (Powerpoints, Prezi, etc) should not have much text. Use images, bullet points, key phrases, etc to show the audience and then YOU talk about the information from notes. Everyone in the group needs to contribute to the work and presentation.

1. Show visual image of the telescope. It should give us a feeling of the scale of the telescope (#6, possibly #1)
2. Show or create a diagram of how light moves through the telescope and be able to explain how the telescope works on a basic level (#4, #5)
3. Show at least two images taken by the telescope. You can either bring up web pages or put the images into your presentation. (#7, #8)
 - a. If the telescope takes images in light other than visual, it may be helpful to also show a visual light image of the objects in your images so we can compare
4. Explain name, location, who is in charge of the telescope and anything else you think we should know (#1, #2, #3, #9)

Starting points for research

The World’s Largest Optical Telescopes <http://astro.nineplanets.org/bigeyes.html>

Orbiting Telescopes <http://spider.seds.org/oaos/oaos.html>

