

MLO Website Hunt (Students)

Materials:

- Each student (or team of students) will need a station with an internet connection.

Procedure:

1. The student (or team) searches the MLO website and attempts to find all of the information requested on the “Hunt” form.

Note: Teacher may add or change information to adjust the difficulty or relevance of the material.

Website Hunt:

1. Mauna Loa Observatory is part of the NOAA, ESRL, GMD. What do these abbreviations stand for?
2. What is name of the live camera on our website that shows a 360 degree view of the sky?
3. What is the temperature, wind speed, and wind direction currently displayed on the MLO WebMet page?
4. What is the altitude of MLO?
5. MLO activities occur at how many locations around the Big Island? Name these locations.
6. What is the purpose of the Kulani Maunaka site for MLO?
7. What is the name of the form that general visitors should fill out if they want to visit Mauna Loa Observatory?
8. State 3 items from the MLO Preparation Checklist that are important to remember when visiting the site.
9. How many NDACC atmospheric research programs are there at MLO? What does the NDACC stand for?
10. When did the NOAA-ESRL GMD Solar and Infrared Radiation Program begin? Name 2 specific measurements made by this program and the instruments used to make them.
11. Which volcanic eruptions are noticeable on the long term plot of Aerosol Backscatter on the “Lidar at MLO” program page?
12. Name 2 programs at Mauna Loa Observatory that are supported by the Environmental Protection Agency (EPA). State one fact about each of these programs based upon their program web page.
13. The eruption of what volcano caused a spectacular sunrise visible from MLO in 1982? (Hint: See Timeline)
14. In what year was a total eclipse visible from MLO?

Website Hunt Answers:

1. (/home.html)
National Oceanic & Atmospheric Administration, Earth System Research Laboratory, Global Monitoring Division
2. (/livecam/livecam.html)
All Sky Camera
3. (<http://www.mlo.noaa.gov/LiveData/mlomet/webmet.htm>)
This page is linked from the main navigation under “Live Data Links”, and the exact numbers change with the weather.
4. (/aboutus/aboutus.html)
3397 meters, or 11,135 feet above sea level
5. (/aboutus/siteInformation/siteinformation.html)
MLO Site, Hilo Office, Kulani Mauka, Cape Kumukahi, Old Hilo Airport Site, Hakalau Site.
6. (/aboutus/siteInformation/kulanimauka.html)
MLO measures rainfall at Kulani Mauka for the National Weather Service (NWS).
7. (/visitingandtours/generalvisitors.html)
A “Tour Request Form”
8. (/visitingandtours/preparationchecklist.html)
This checklist mentions several important things about safety and preparation with respect to visiting MLO.
9. (/programs/search_pages/search_ndacc.html)
8 research programs.
Network for the Detection of Atmospheric Composition Change.
10. (/programs/esrl/solar/solar.html)
11. (/programs/gmdlidar/mlo/gmdlidar_mlo.html)
El Chichon & Mt. Pinatubo.
12. (/programs/search_pages/search_coop.html)
By clicking the links on this page, the user is redirected to the specific program web pages. There are 8 programs associated with the EPA.
13. (/webmuseum/timeline.html),
(webmuseum/timeline/1982sunrisemlo.html)
1982
14. (/webmuseum/timeline.html),
(webmuseum/timeline/1991totaleclipse.html)
1991