NASA EAARL & Google Earth
Loading EAARL Data Sets

- EAARL datasets are loaded via your web browser.
- Google Earth will be automatically started when you click on an EAARL dataset in the Google Earth format.

Eaarl Web Site: http://inst.wff.nasa.gov/eaarl
Loading an EAARL Flight

Click the right pointing triangle beside the flight day to see the display options.
You can check or uncheck this to make the flight track appear or disappear.

Check or uncheck “Images/Data” to make the airplane symbols along the flight track appear or disappear.

The airplane symbols are displayed once per minute of flight.
EAARL Track Minute Markers

- The airplane symbols link to more information including high and low resolution photographs taken once per second.
Examining EAARL Flight Track

Airplane symbols indicate direction of flight.

Zoom in to unclutter the airplane symbols.
EAARL Minute Markers

- Flight Information
  - Time, date
  - Altitude
  - Ground Speed
  - Ground Track
- Photograph info
  - Resolution
  - Ground dimensions
- Links to intervening photographs

Clicking on an airplane icon brings up flight information.
Minute Marker Photo Links

- Minute Markers provide basic flight information and links to photos taken “on the minute.”
- They also provide links to 60 seconds of photos ahead and behind the aircraft icon.

Click to view high or low resolution photography at this minute marker.

Links to 60 photos ahead and 60 photos behind the icon.
Loading One Second Photo Markers

- Clicking on the “+60” or “-60” loads links to the photos between the minute markers.

Clicking here (-60) brings up links to the 60 photos behind the aircraft icon.
One Second Photo Markers

- Camera icons mark each second of flight and are hyperlinks to the photography for that second and additional flight data.
Selecting Photos

Placing your mouse over a camera icon highlights it.
Selecting Photography for Display

- The seconds flight dynamics links show:
  - Seconds of the week (sow)
  - Inertial:
    - Heading
    - Pitch
    - Roll

Clicking here will load a high resolution color Infrared photo
When an image is loading you should see a red indicator graphic.
Loaded Image Display
Loading Additional Photographs

- To load more photographs, simply click on other camera or airplane icons.
Removing Loaded Photos

- Having too many photos loaded will slow down your computer.
- Remove photos when you're finished with them to keep from bogging down your system.
- Click on a photo in "Places" and then press the "DEL" key on your keyboard.
- There's no group select (yet).
Connect Camera Markers to Ground

- To make it easier to associate second markers with a photo you can have Google Earth connect each camera icon to its GPS position on the ground.

- The photos are not centered on the GPS position and have been adjusted for aircraft heading, pitch, and roll.

Right click and highlight one of the “Cam1” 1:59 entries under Places.
Connecting Camera Markers to the Ground

- You can edit many attributes of a given data layer.

Right clicking on the 1:59 entry brings up this menu.

Click on “Edit”.

[Image of a menu with options like Save As, Copy, Rename, Delete, etc.]
Connect Second Markers to the Ground

Be sure to check “Advanced.”

Select “Location” Tab

Put a “check” here to connect camera icons to the ground.
Camera GPS Positions Now Indicated on the Surface

- There are several other options under the “edit” menu which are useful. For example you can:
  - change color
  - force the GPS track to the ground
  - change the Icon
  - change other useful attributes.