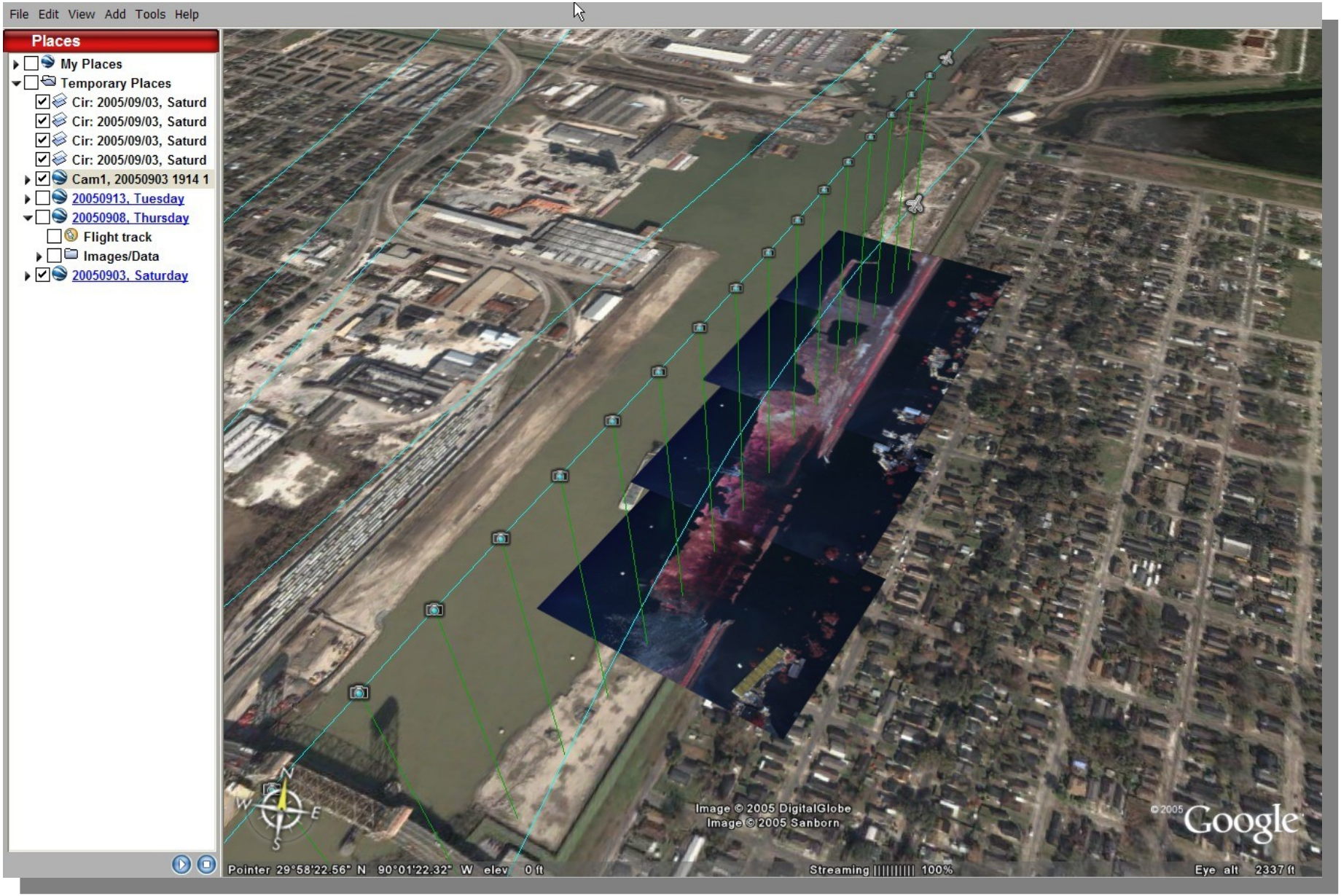
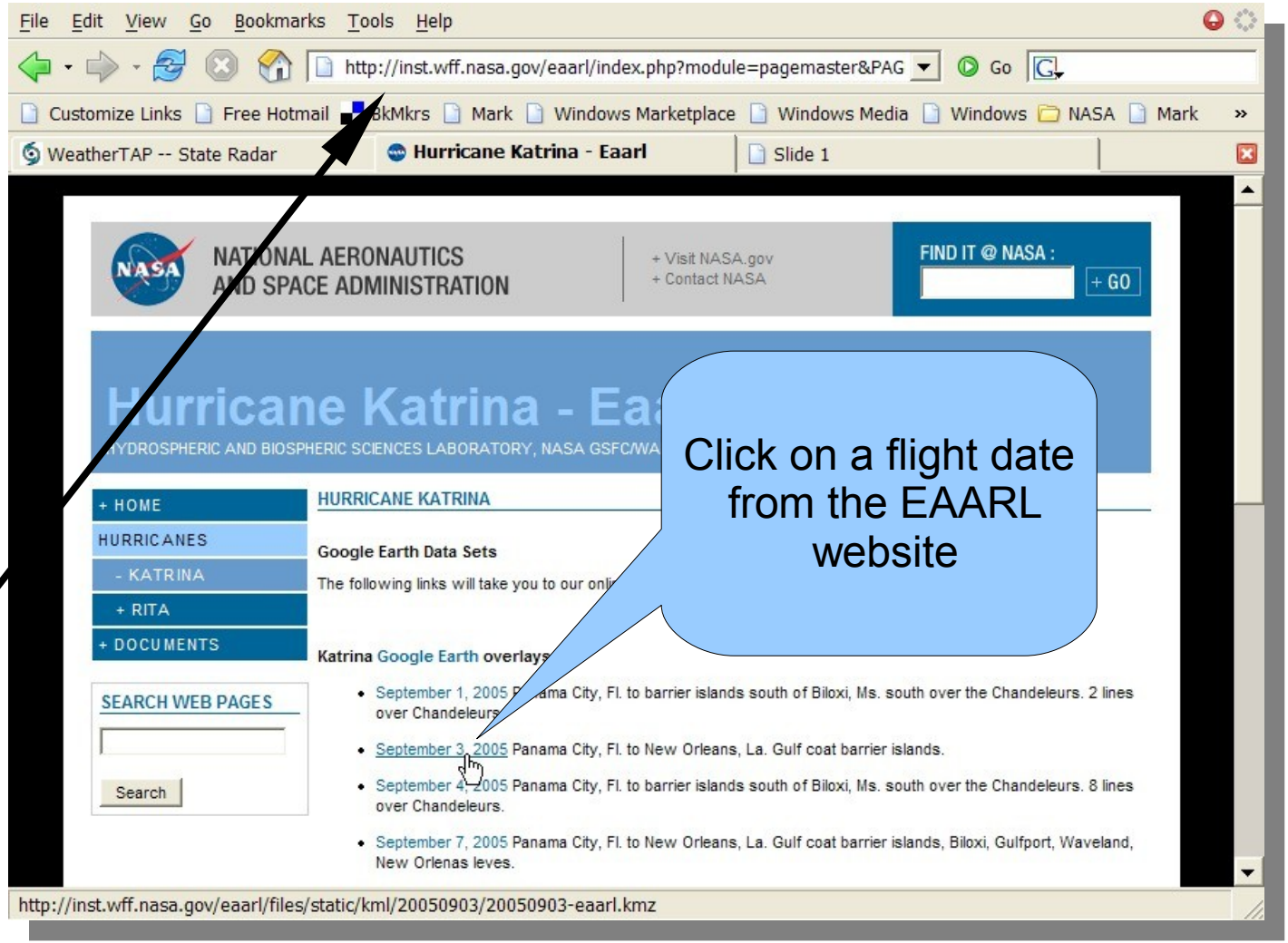
NASA EAARL & Google Earth



Loading EAARL Data Sets

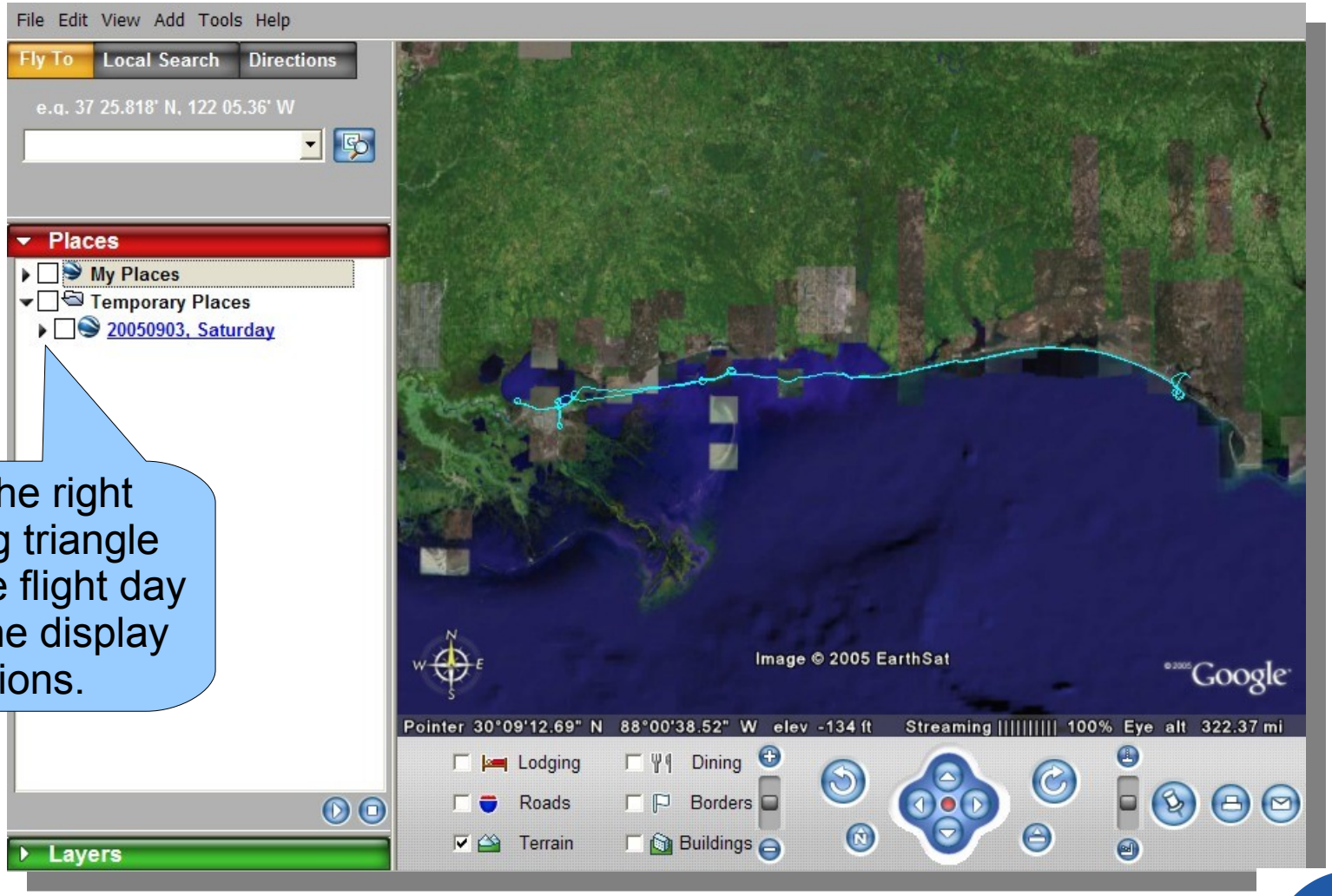
- EAARL datasets are loaded via your web browser.
- Google Earth will be automatically started when you click on an EAARL dataset in the Google Earth format.



Click on a flight date from the EAARL website

Eaarl Web Site: http://inst.wff.nasa.gov/eaarl

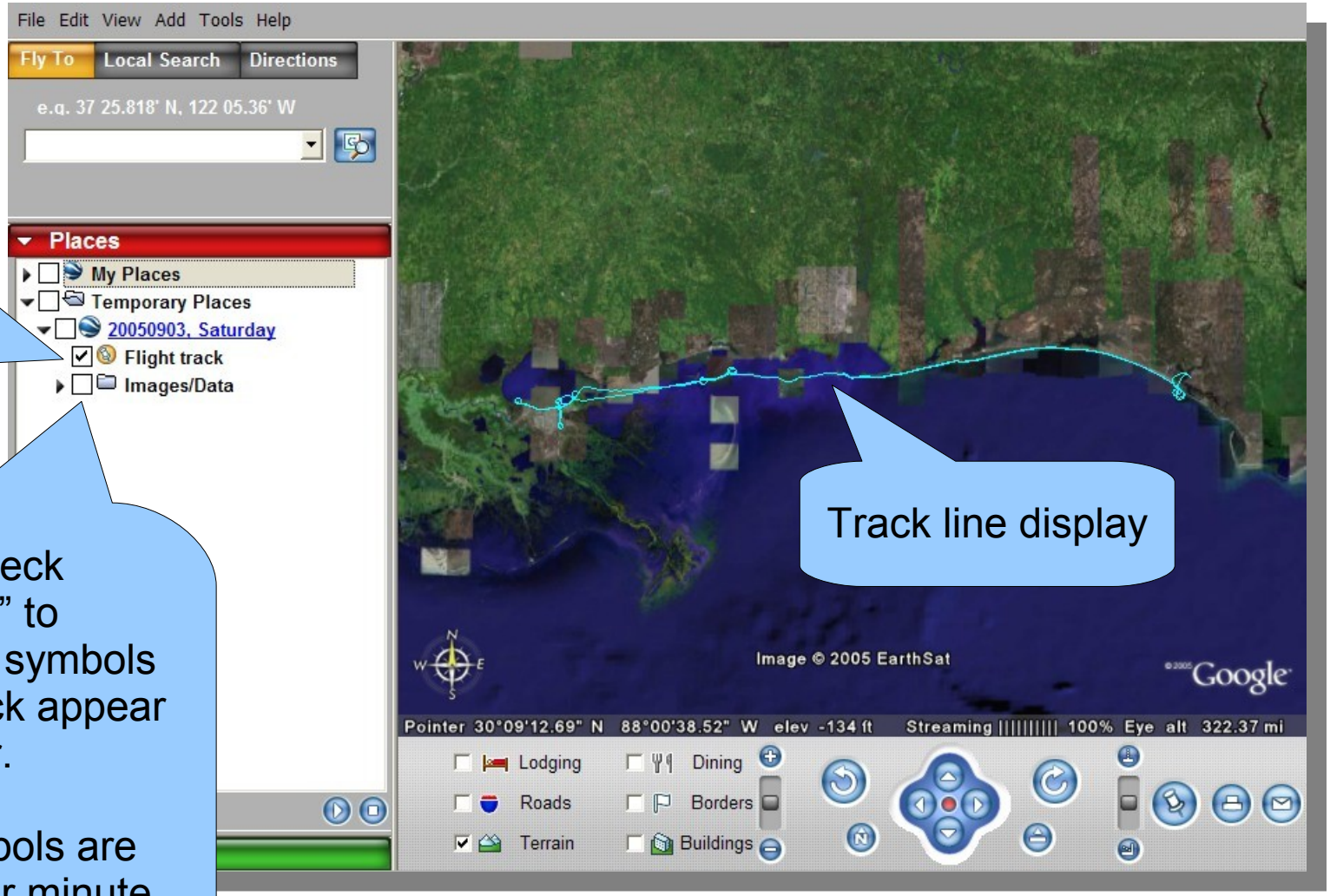
Loading an EAARL Flight



Click the right pointing triangle beside the flight day to see the display options.

Displaying and Hiding EAARL Flight Data

You can check or uncheck this to make the flight track appear or disappear.



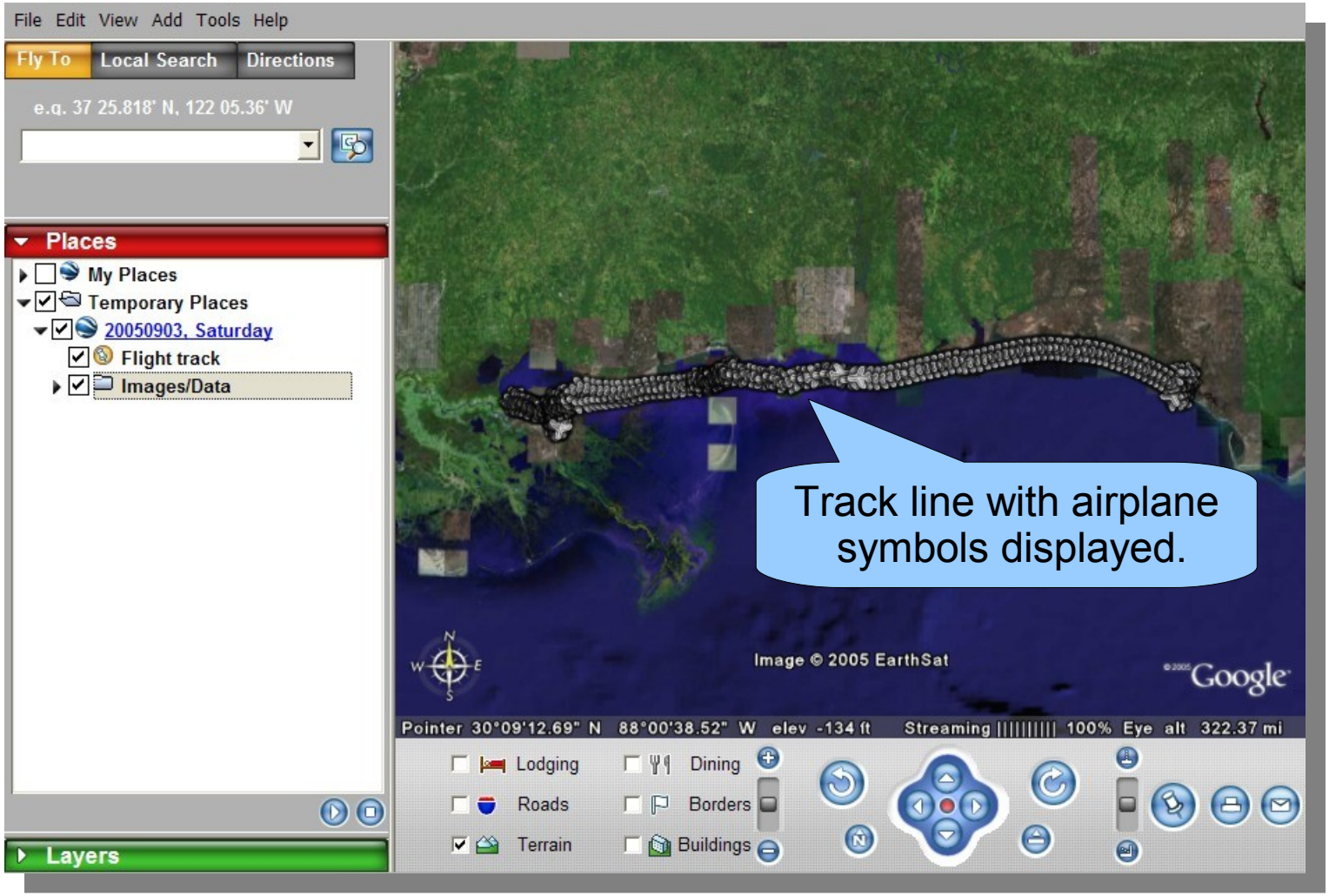
Track line display

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

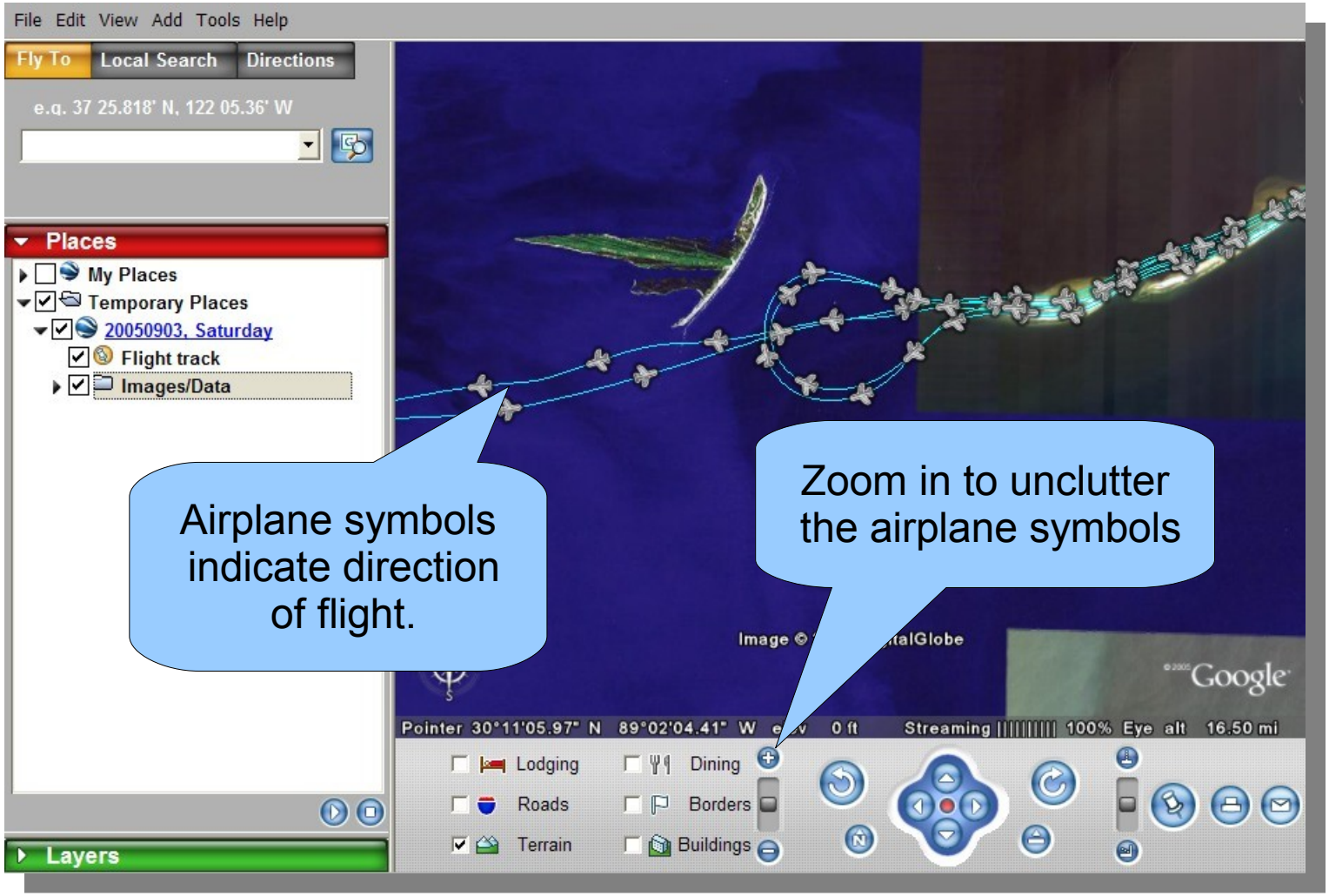
The airplane symbols are displayed once per minute of flight.

EAARL Track Minute Markers

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

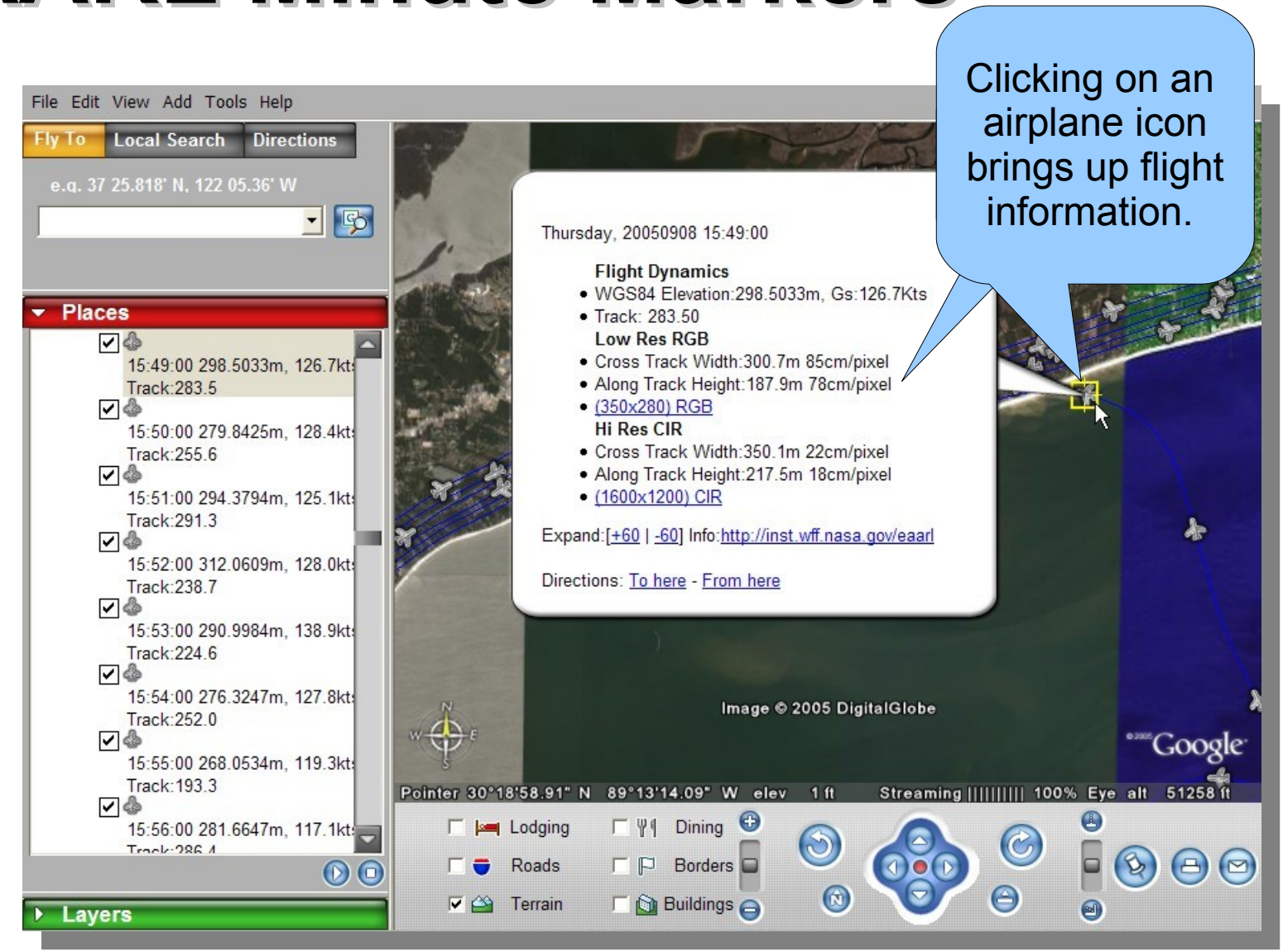


Examining EAARL Flight Track



EAARL Minute Markers

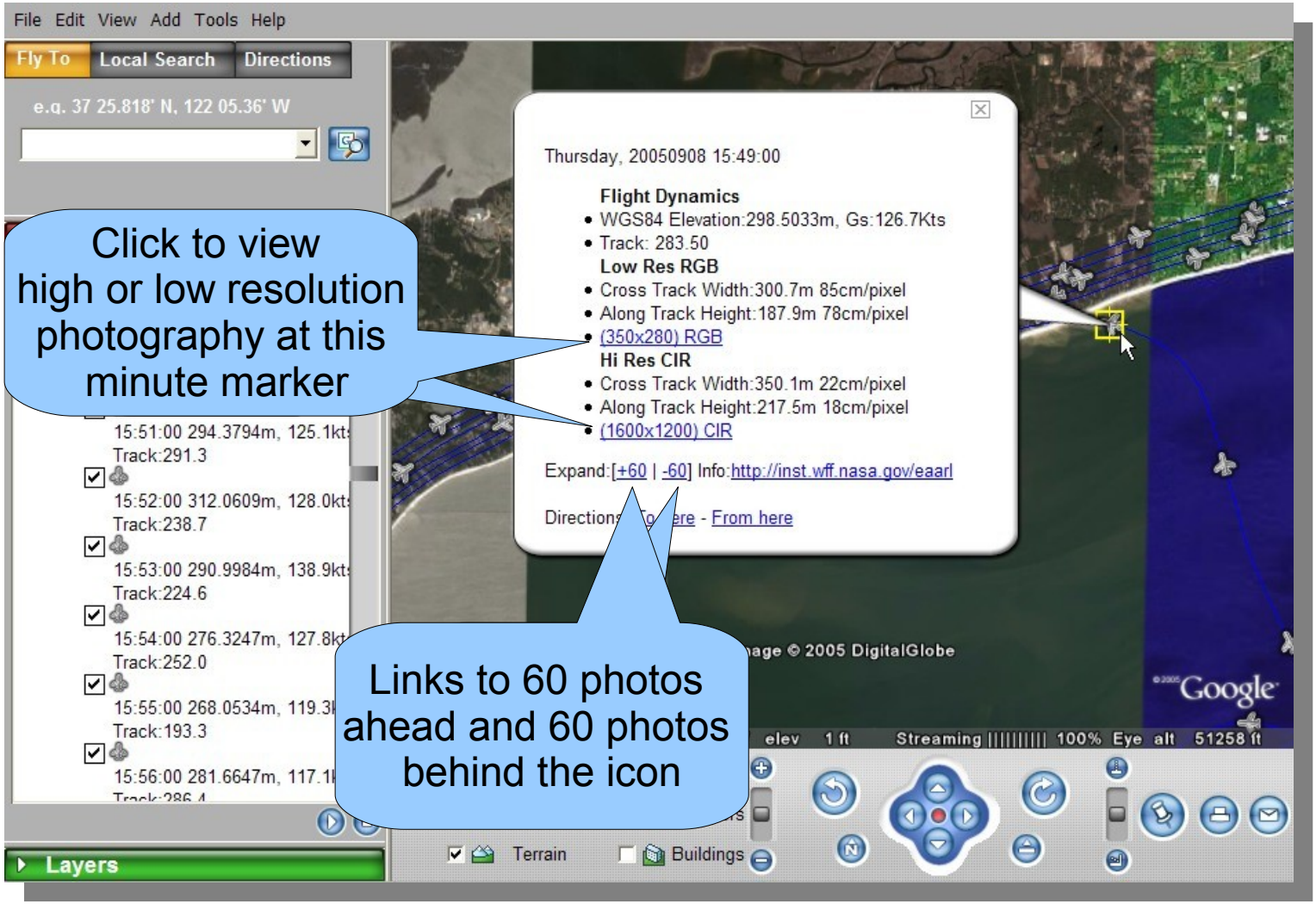
- Flight Information
  - Time, date
  - Altitude
  - Ground Speed
  - Ground Track
- Photograph info
  - Resolution
  - Ground dimensions
- Links to intervening photographs



Clicking on an airplane icon brings up flight information.

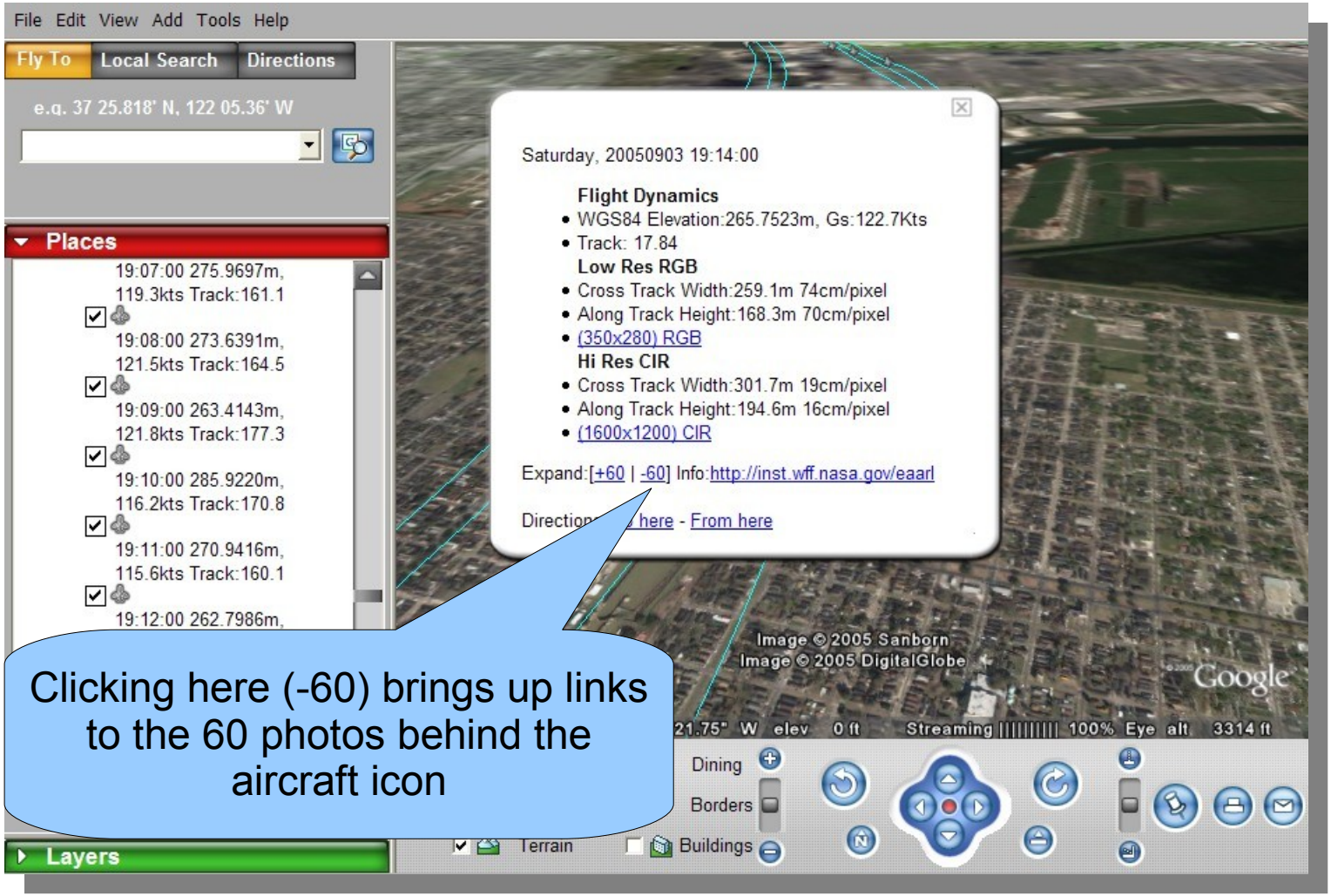
Minute Marker Photo Links

- 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.



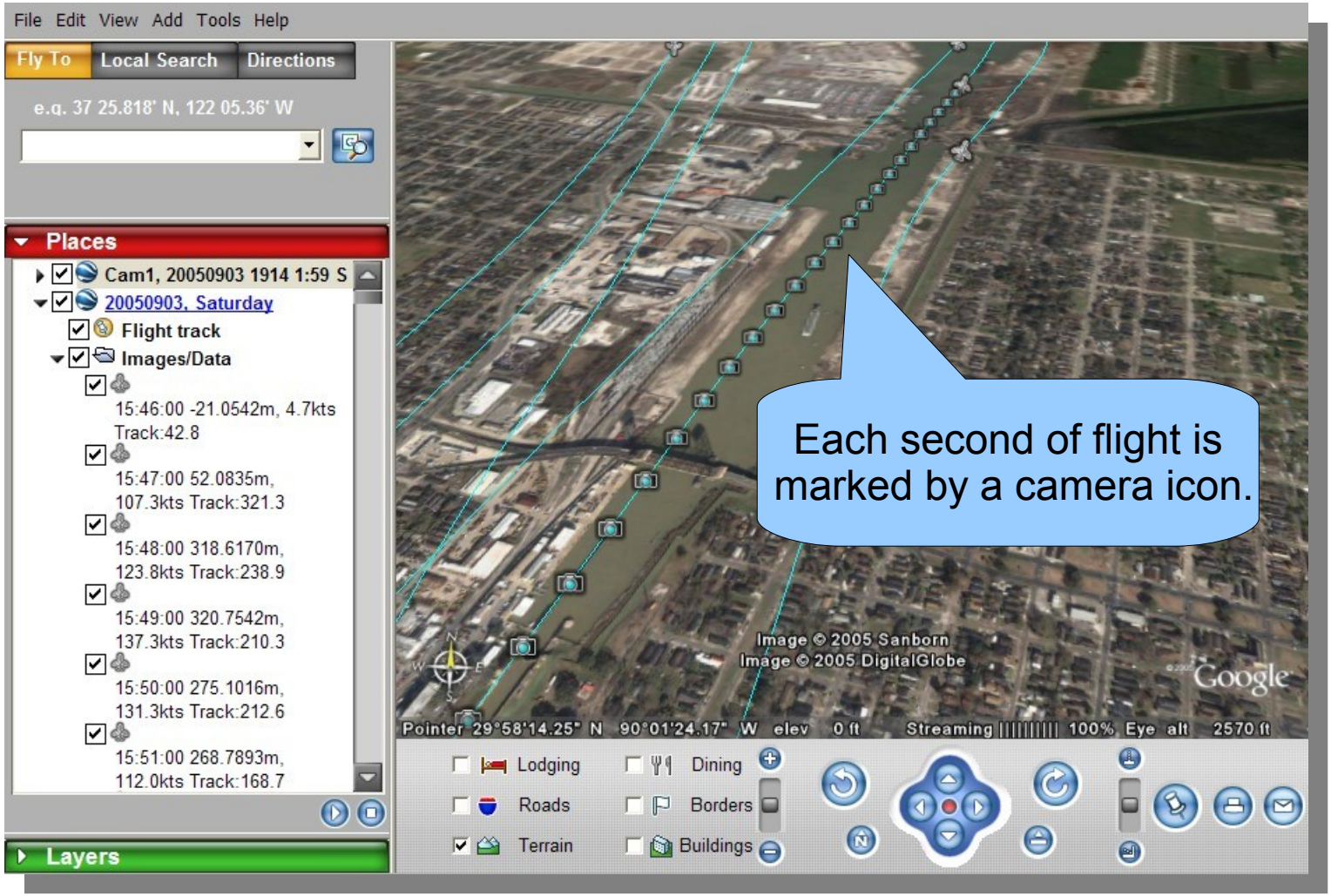
Loading One Second Photo Markers

- Clicking on the "+60" or "-60" loads links to the photos between the minute markers

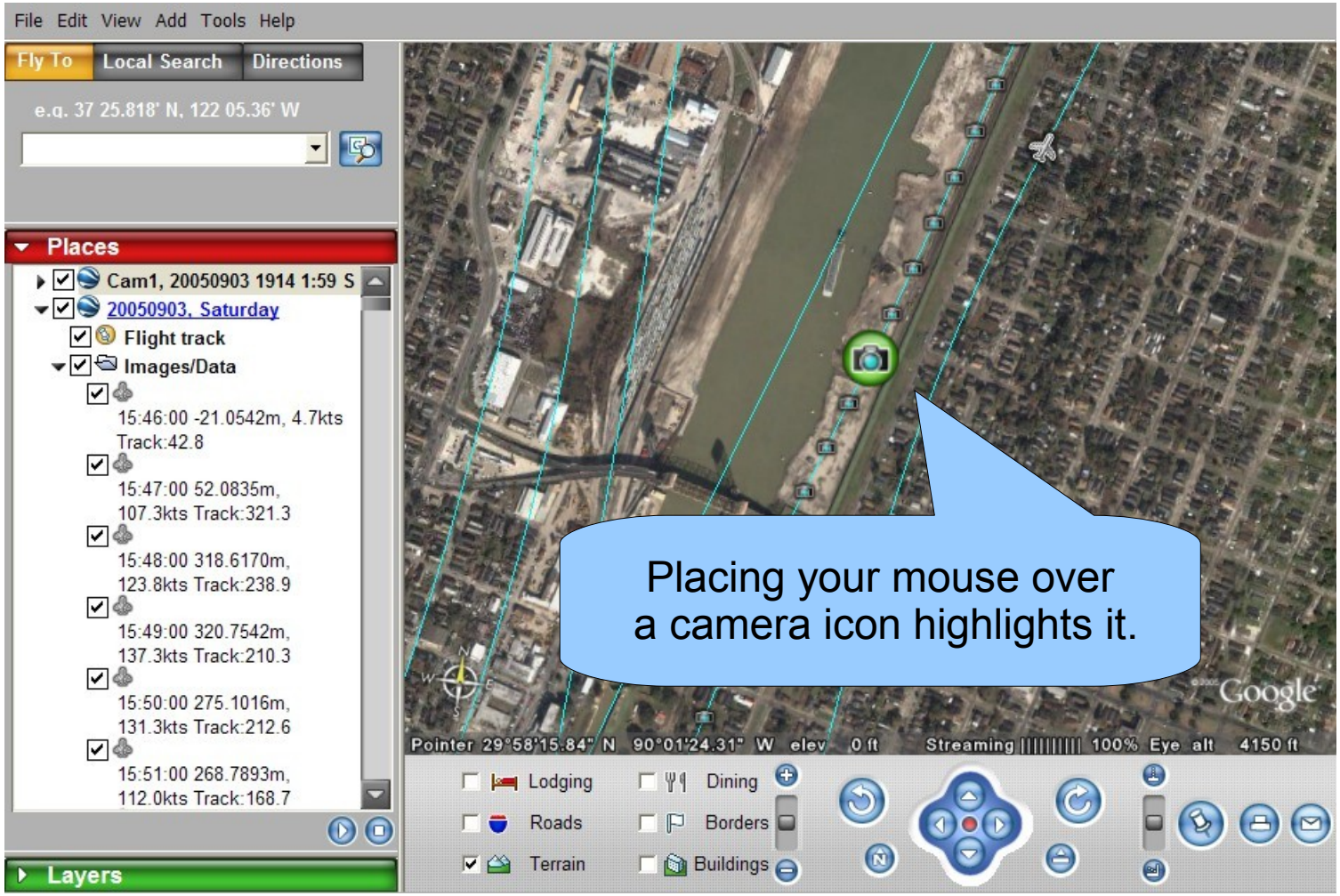


One Second Photo Markers

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



Selecting Photos



Selecting Photography for Display

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

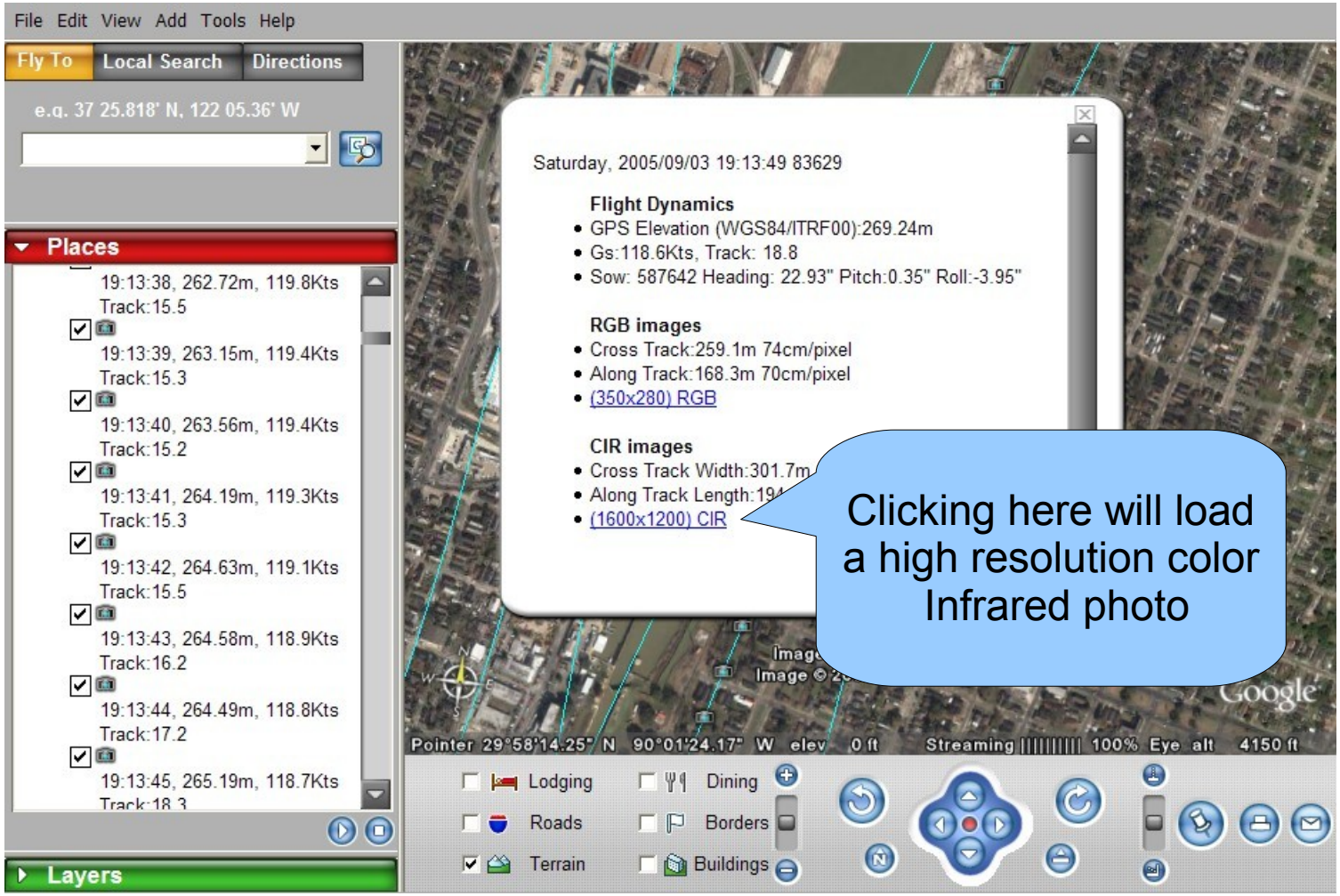
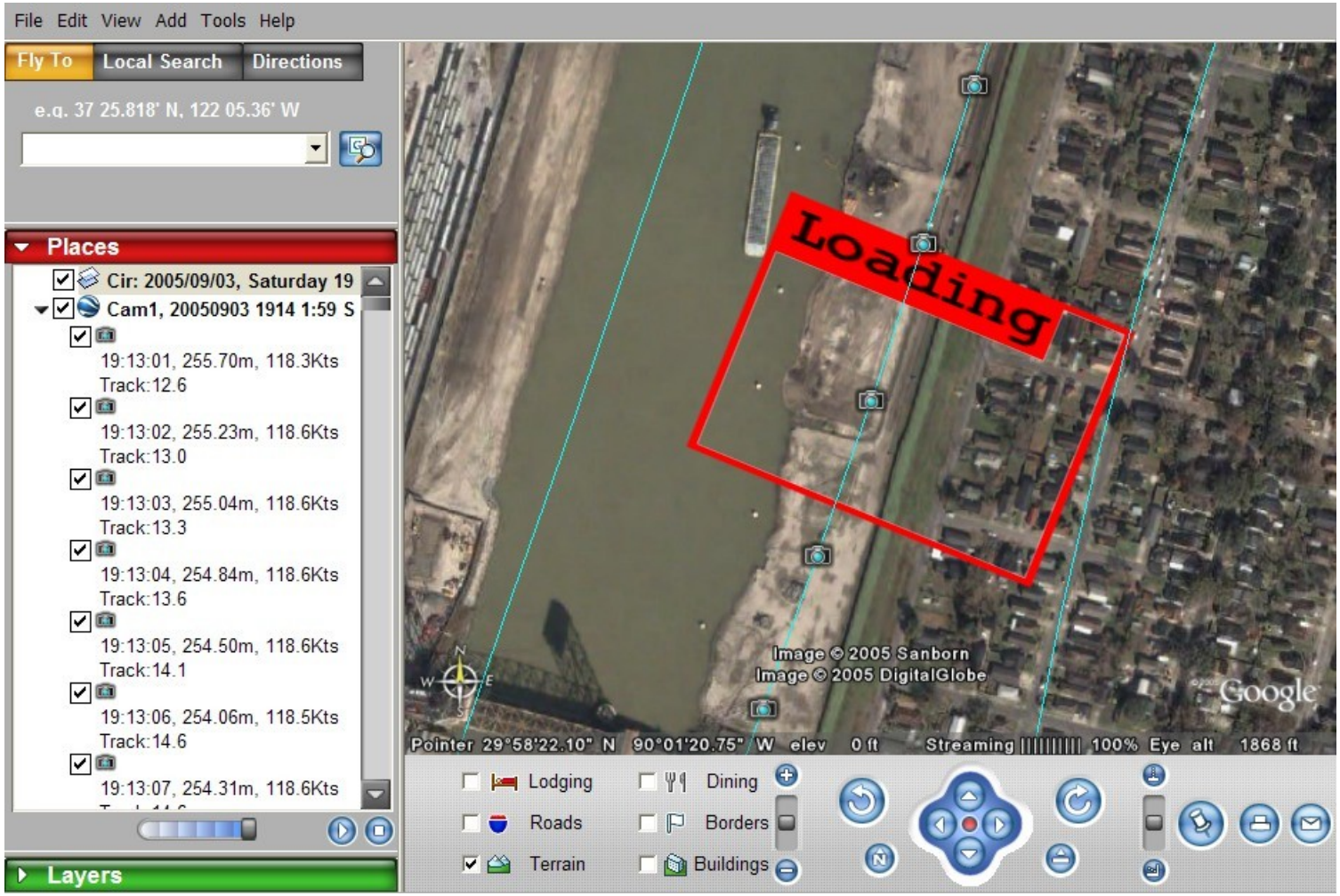
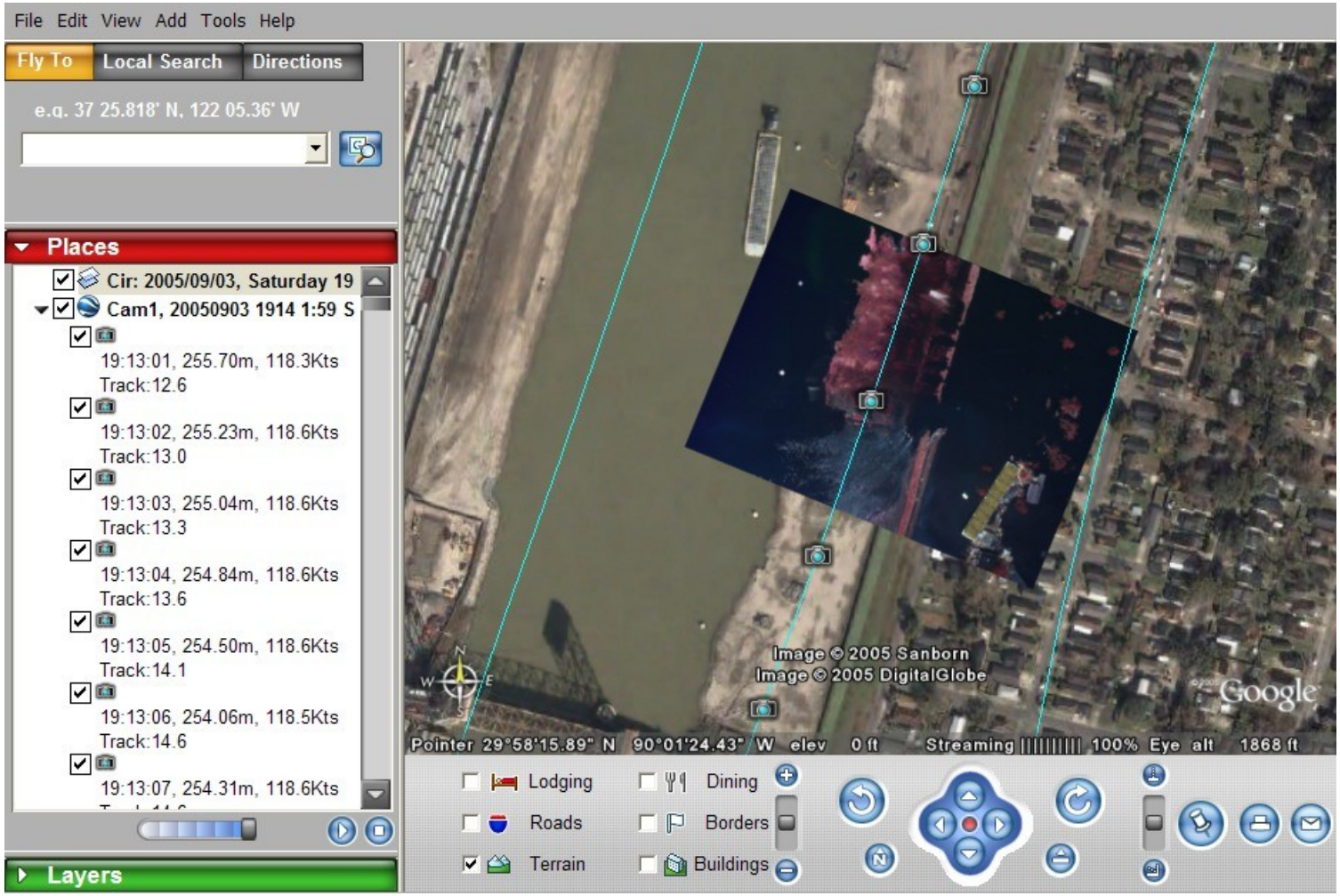


Image Loading....

- When an image is loading you should see a red indicator graphic

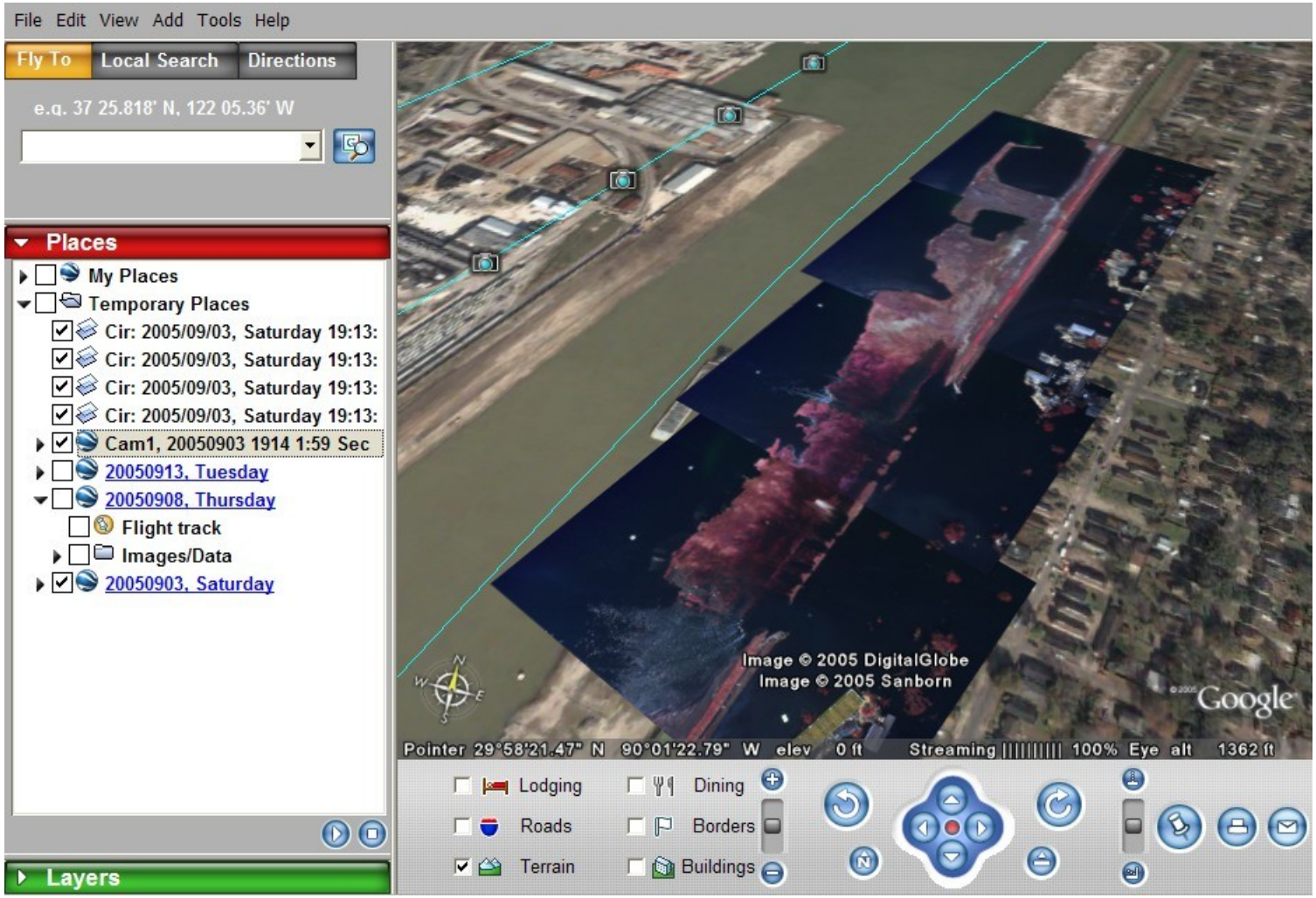


Loaded Image Display



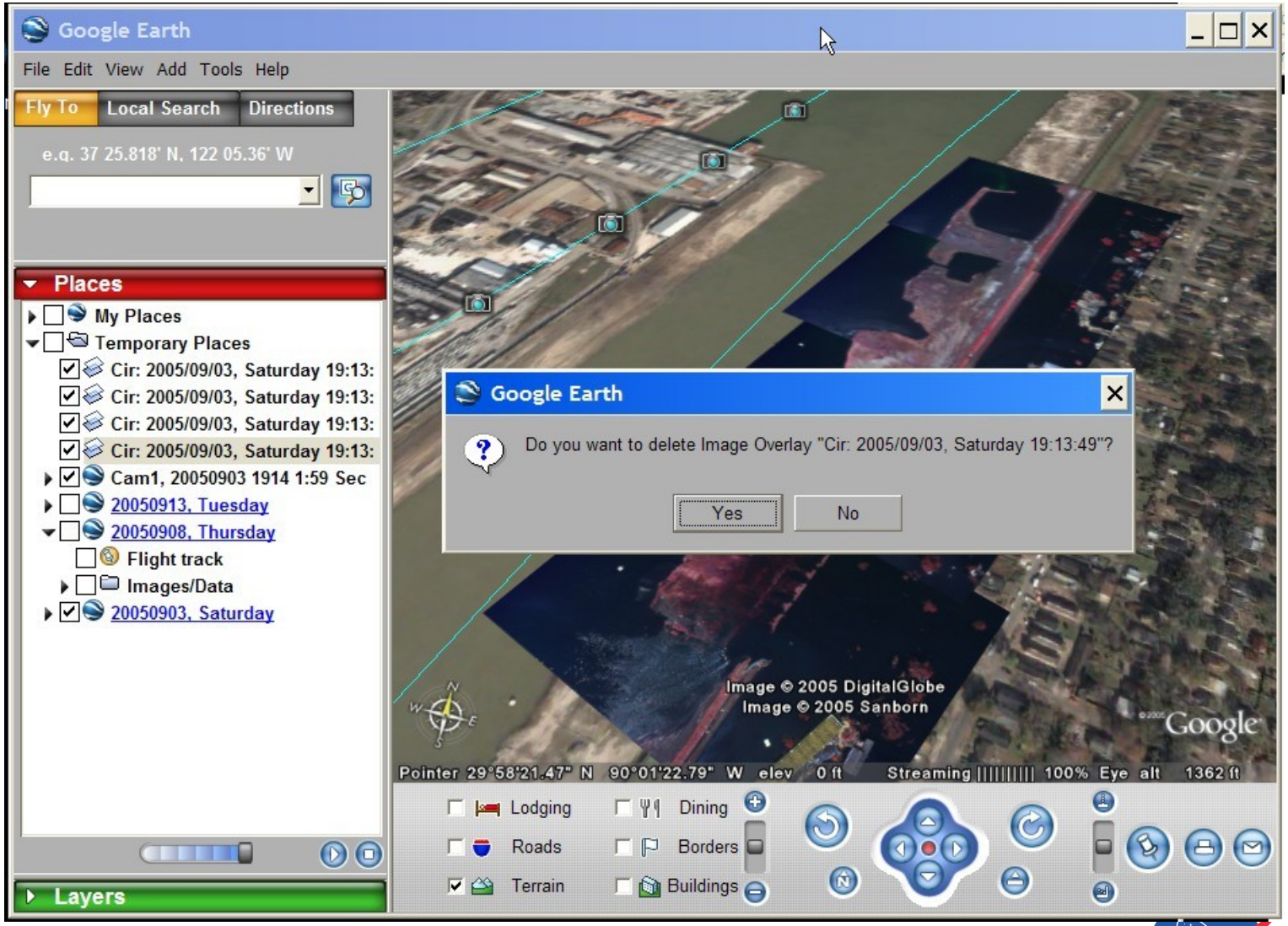
Loading Additional Photographs

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



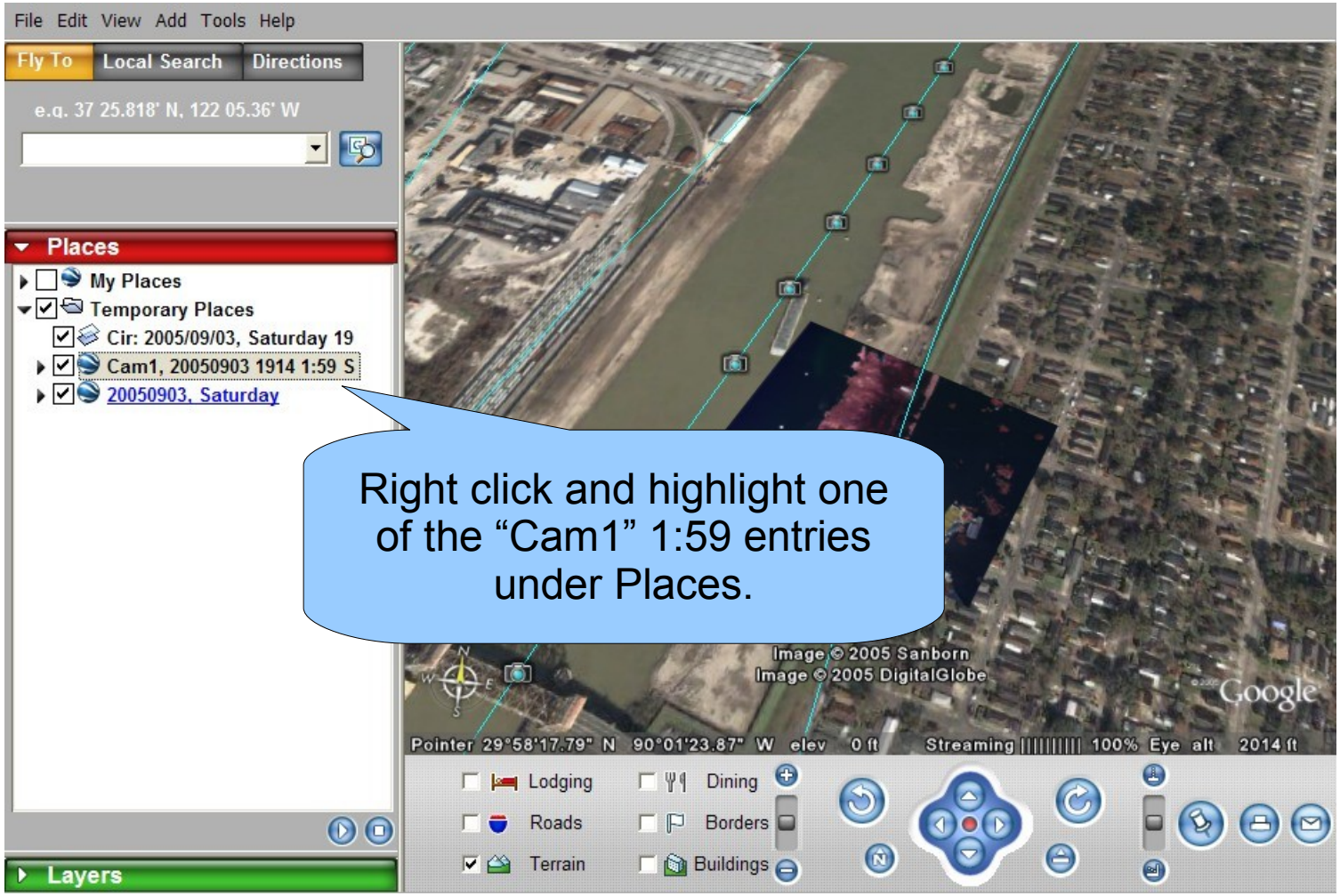
Removing Loaded Photos

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



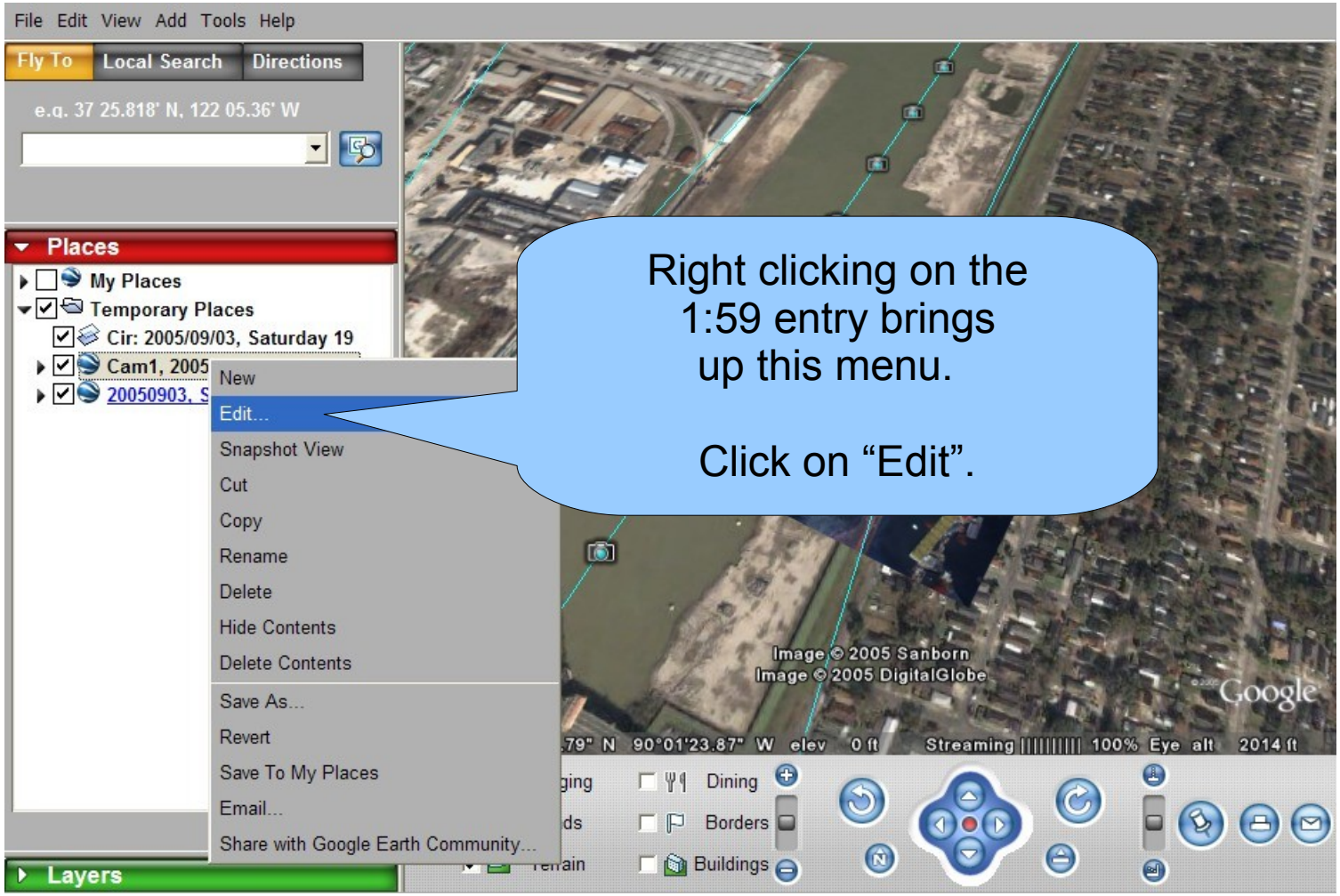
Connect Camera Markers to Ground

- To make it easier to associate second markers with a photo you can have Google Earth connect each camera icon to it's GPS position on the ground.
- The photos are not centered on the GPS position and have been adjusted for aircraft heading, pitch, and roll.



Connecting Camera Markers to the Ground

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

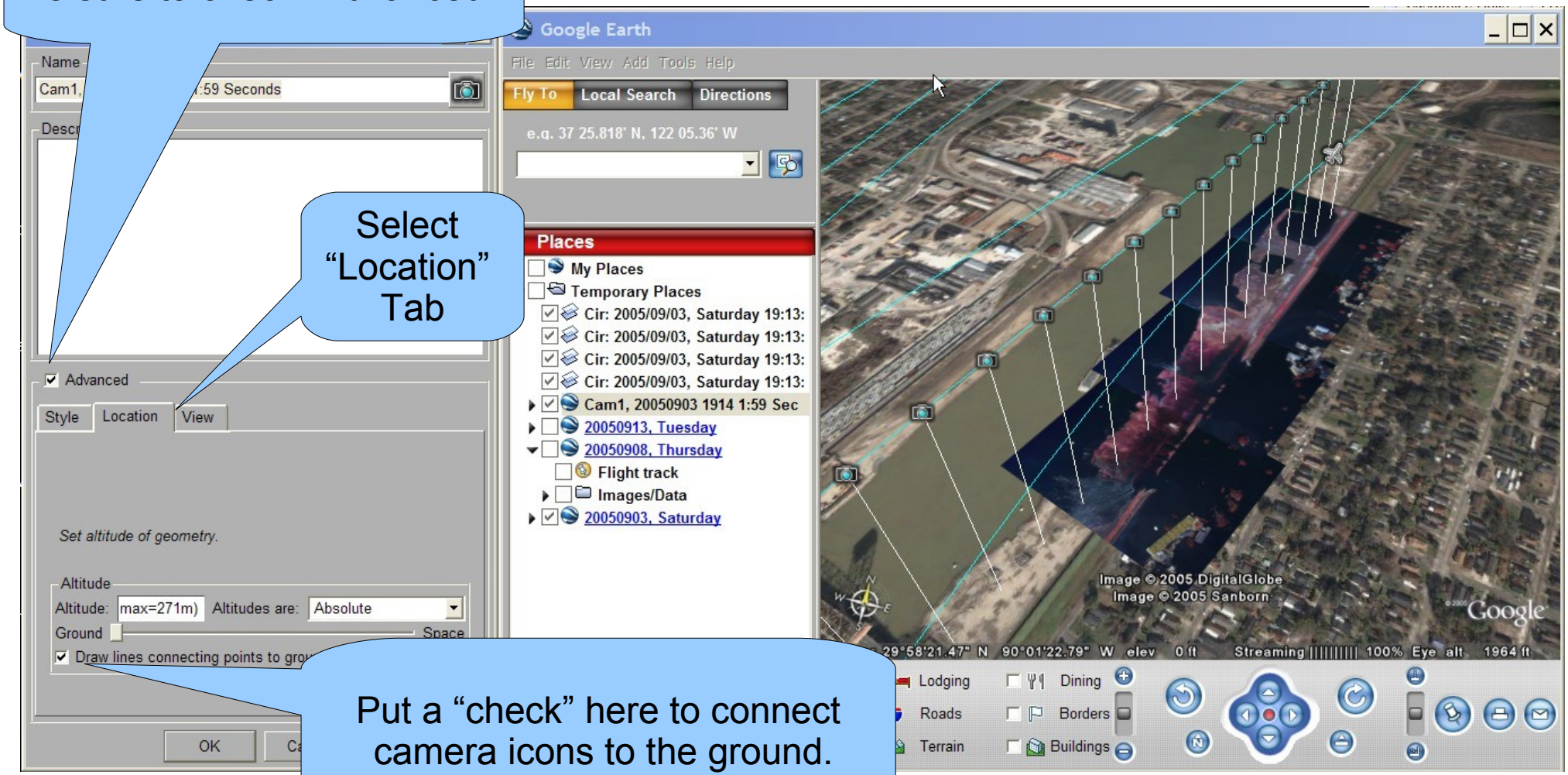


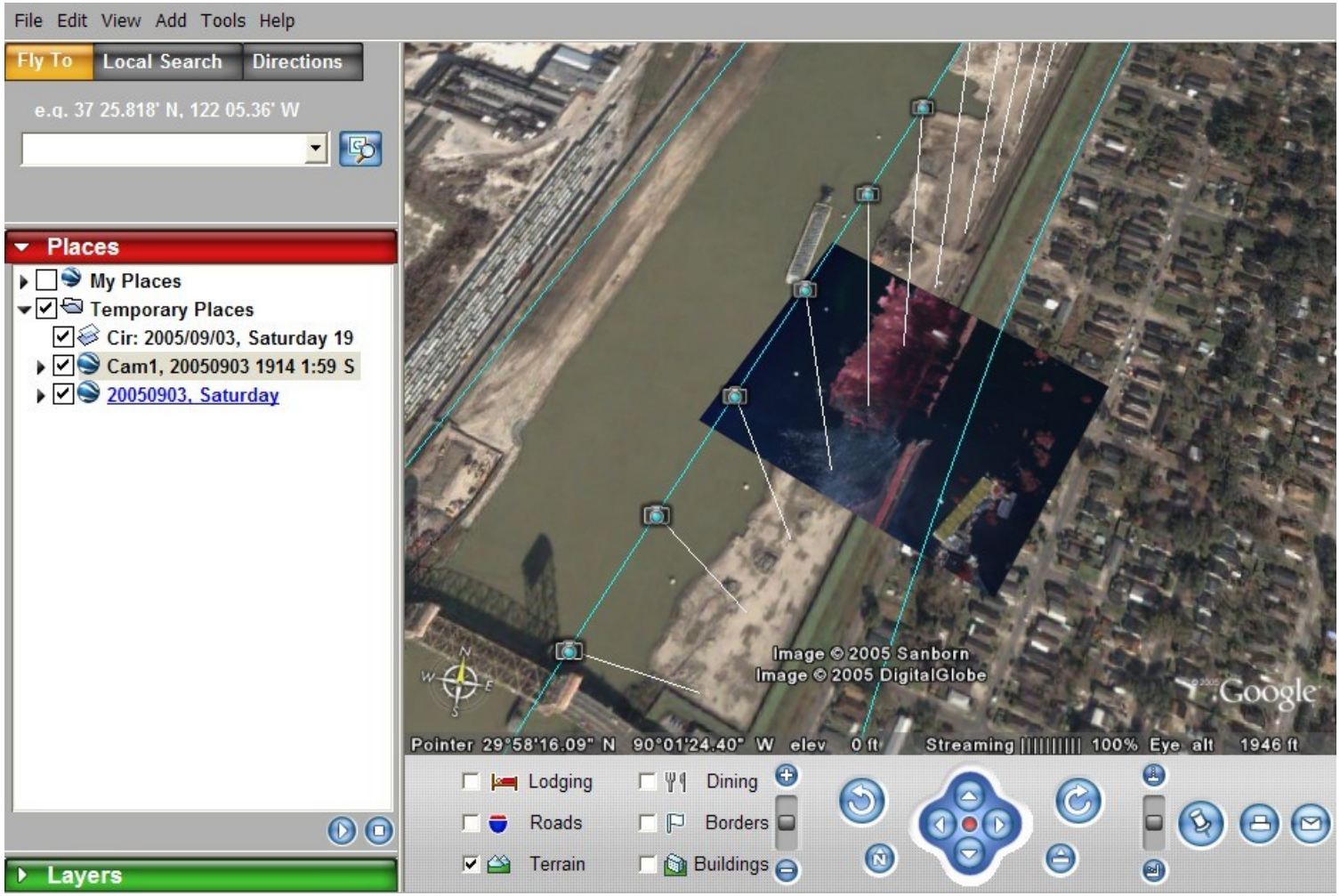
Connect Second Markers to the Ground

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.