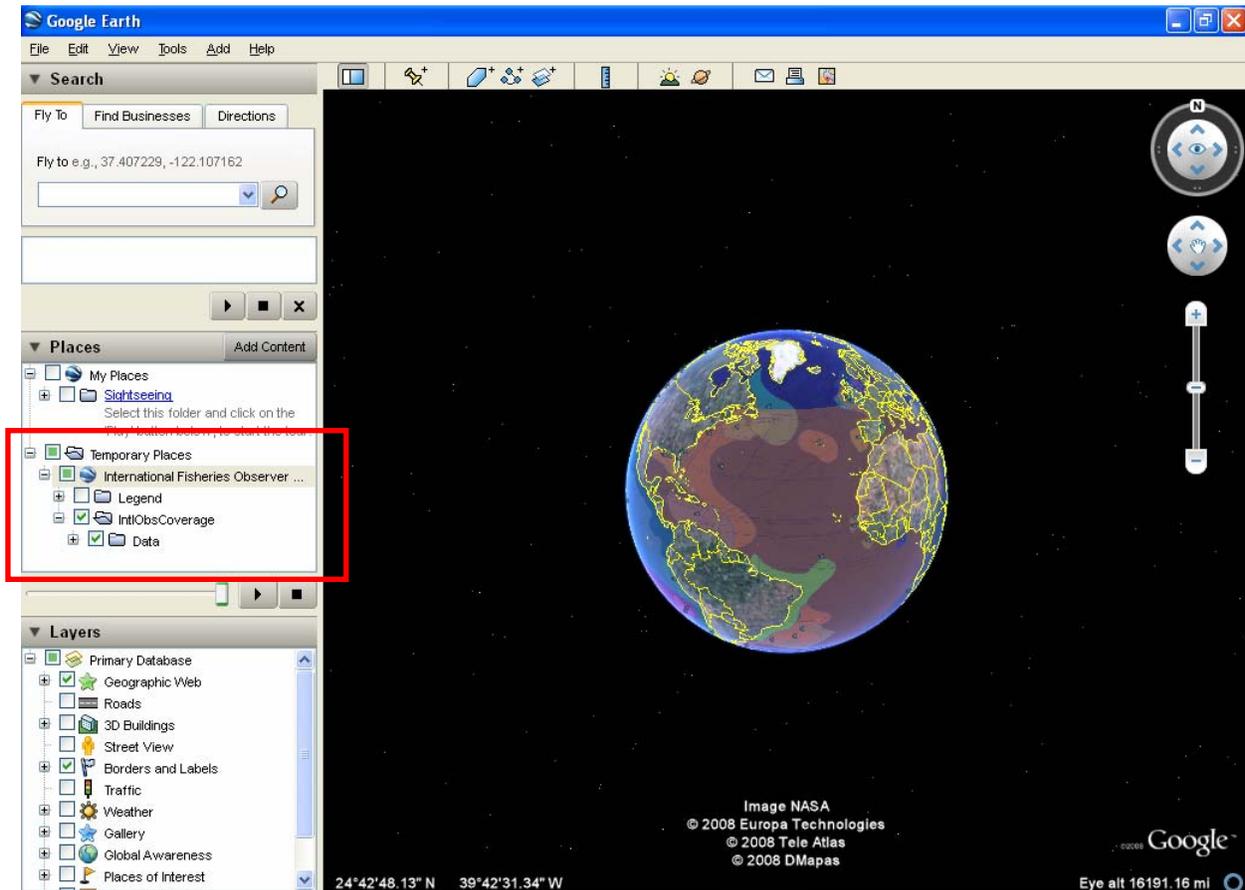


Editing Observer Programs in Google Earth

Getting Started

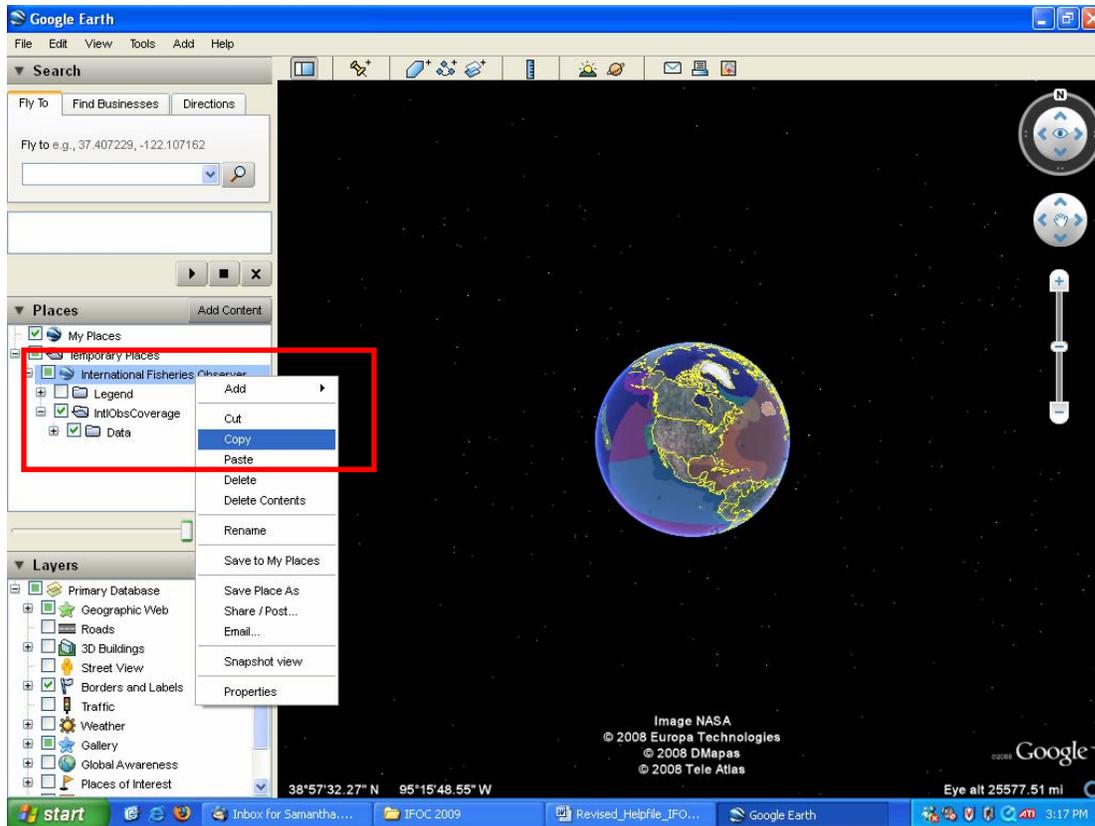
If you do not have Google Earth installed on your computer, visit <http://earth.google.com/> and click on “Downloads” to obtain the latest version.¹ Google Earth provides introductory tutorials that may assist you with learning to navigate the program (under “Help” on the menu bar). If you need a different language, the default language can also be changed (under “Tools” selection “Options” and click on the “General” tab).

- Contact Samantha Brooke (Samantha.Brooke@noaa.gov) to obtain a copy of the file. Download the file titled “**arc2earth_02**” save on your computer. The file type is a “.KMZ”- this is the file extension used by Google Earth. When the file has downloaded, double click on the file name. The file will open in Google Earth.
- The file will appear in the “Places” section of the left hand menu bar, in the “Temporary Places” folder as “International Fisheries Observer Coverage”. There will be several subfolders.

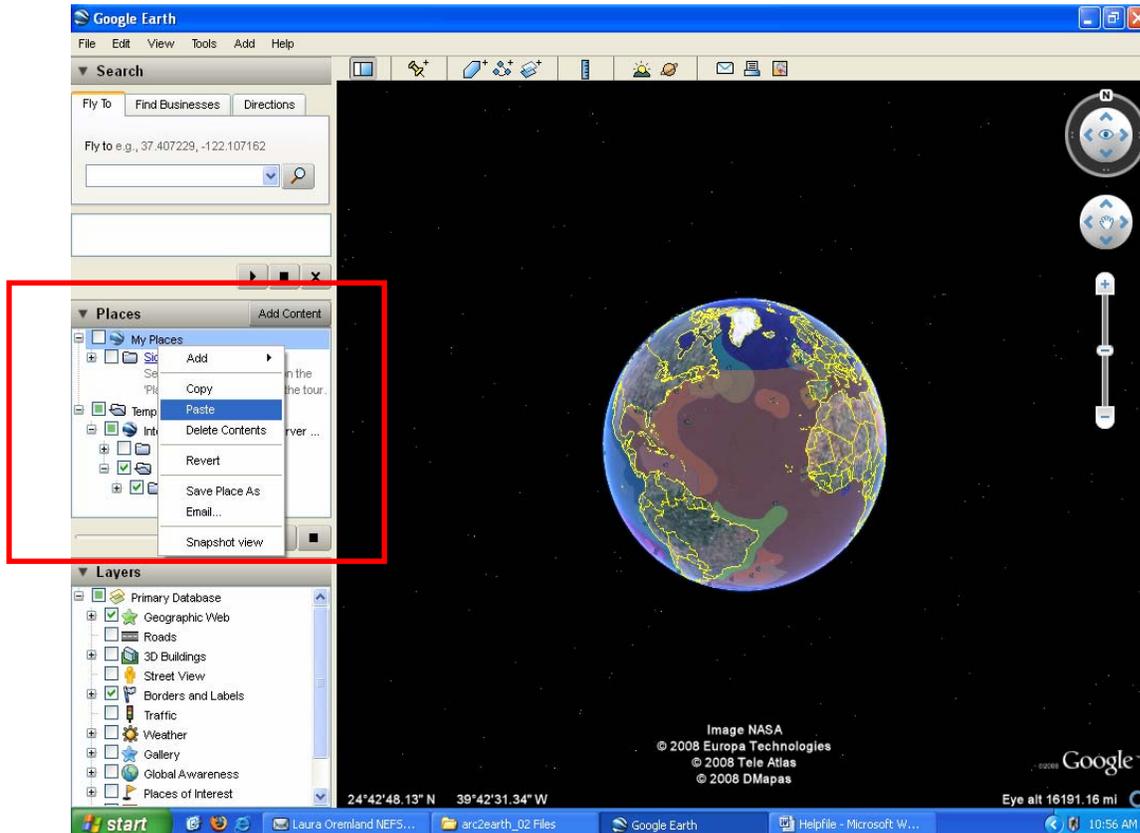


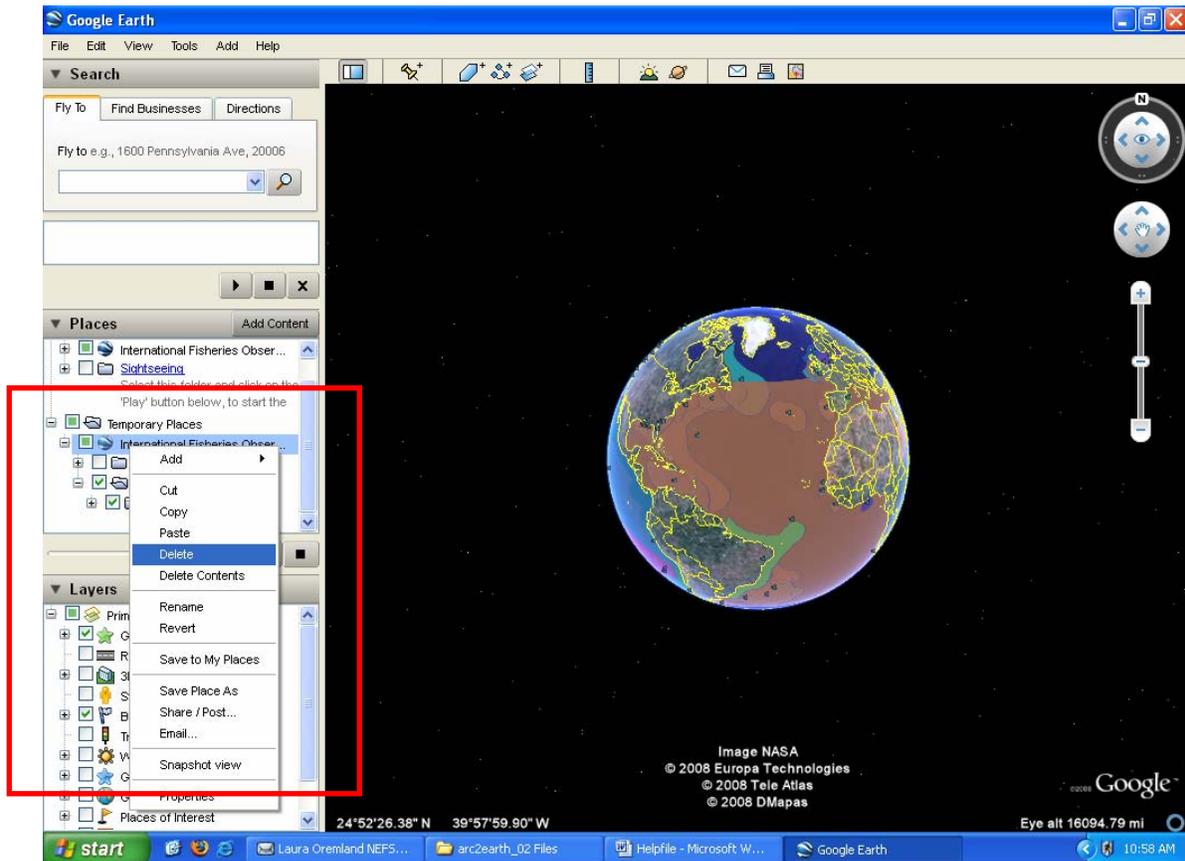
¹ NOAA employees should contact their helpdesk about installing the free version of Google Earth on their computer.

- Right-click (Mac users can use **ctrl + click**) on “International Fisheries Observer Coverage”. A menu of options will appear. Select “Copy”.



- Next, right click on “My Places”. A menu of options will appear. Select “Paste” (you may need to use the scroll bar and scroll up and down to see “My Places and “Temporary Places”).



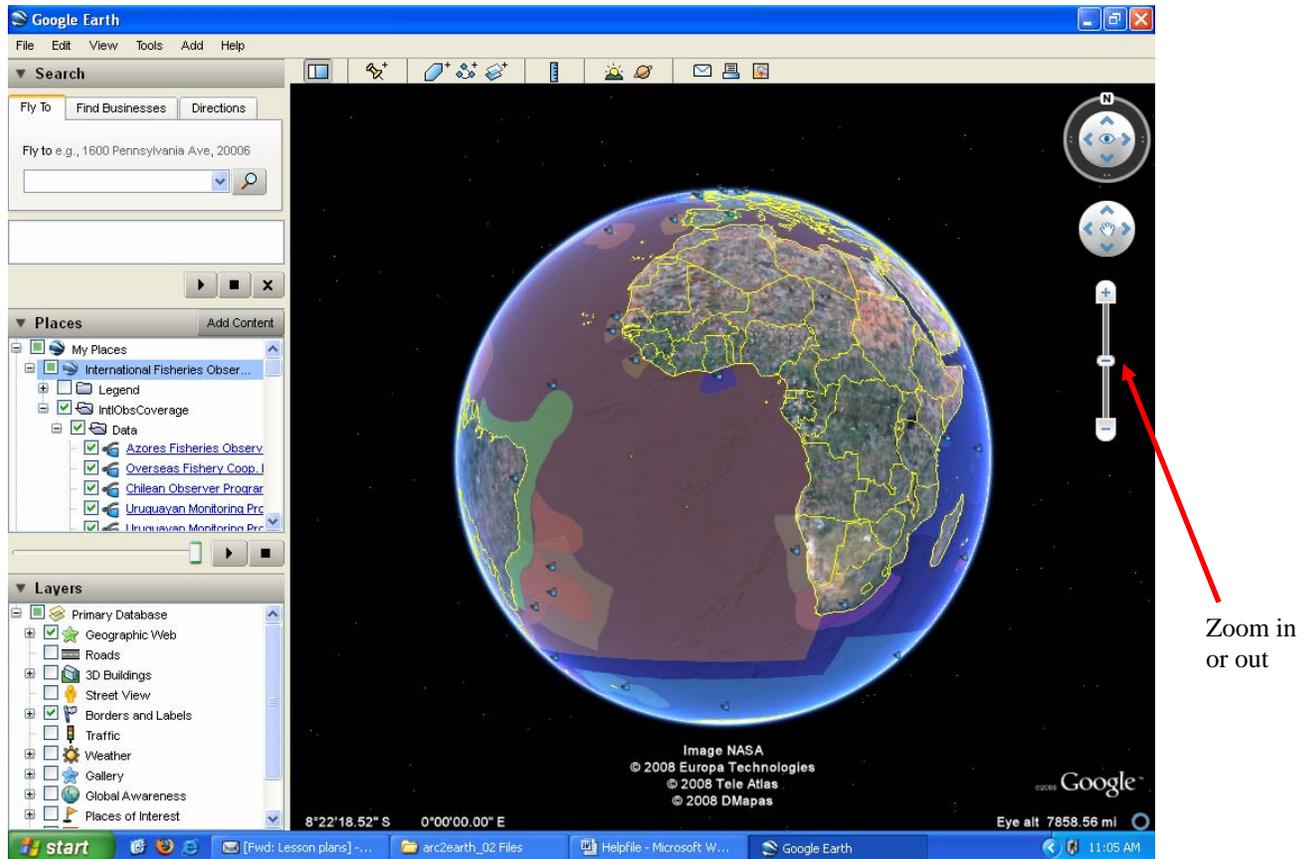


- Delete the file from “Temporary Places” by right clicking “International Fisheries Observer Coverage” and selecting delete (again, scroll down if you can’t see “Temporary Places” in the “Places” menu). Click “okay” when asked if you are sure you want to delete the file.

Now, under “My Places”, click the “+” sign next to the folder titled “IntlObsvCoverage” to expand it.

- Click the “+” sign again to expand the subfolder “Data”. Your screen should now look somewhat like the screen shot below, with the individual programs listed in blue.
- To see more programs, you can minimize the “layers” tab by clicking on it once, or simply scroll down using the sliding bar to the right of the program names.
- You can also widen the menu section by holding your cursor along the outside edge of the menu bar until it turns into a double sided arrow, and then clicking & dragging to expand the window.

Locating Your Observer Program

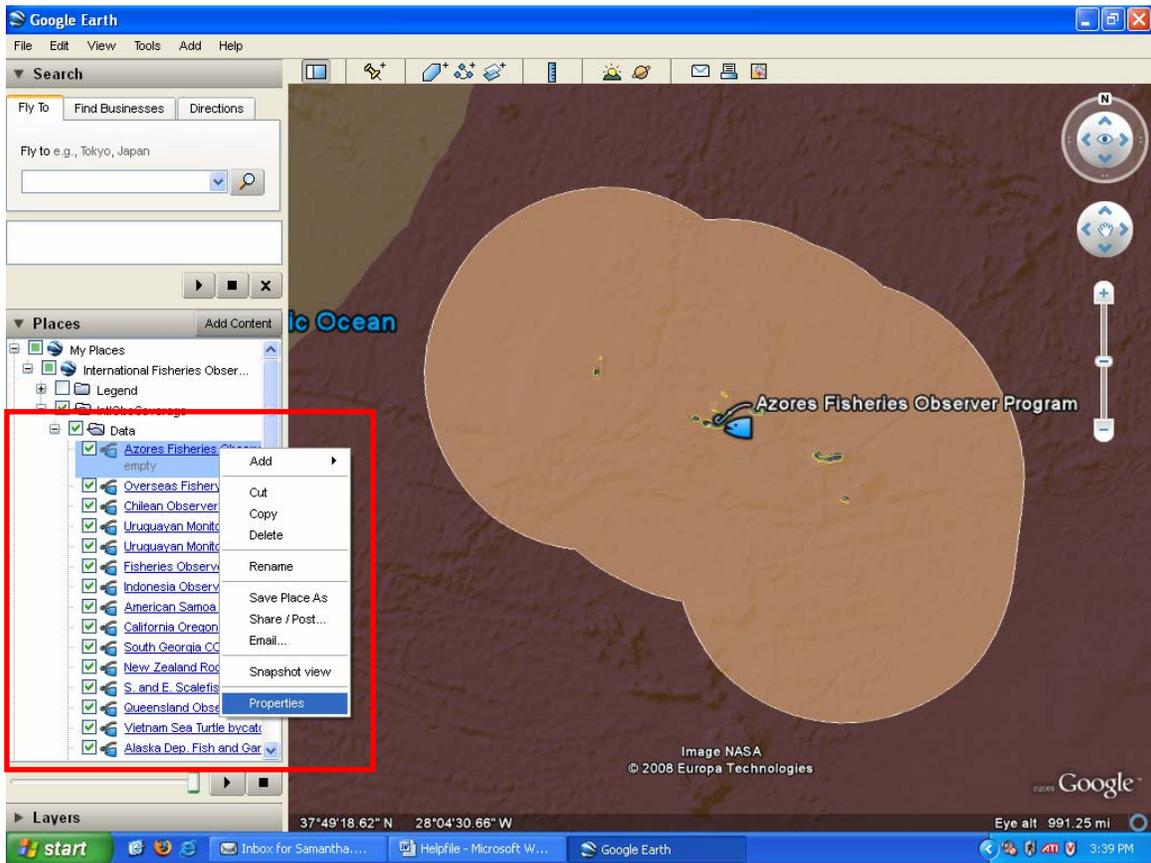


Programs are not listed in alphabetic order. To locate your program, find the name of in the list under “Data”, or use the map to locate it (by moving the map to show your area of the world).

- Navigating with Google Earth: To rotate the Earth, either use the hand tool (appears when the cursor is held over the map) or use the arrow icons to move the earth around (middle arrows, hand icon in the center), or change perspective (top set of arrows, eye icon in the center).
 - Using the map, click on the fish head icon to read details of a program, or using the Data Folder, double click on a program name to zoom in to that program.
 - You can also zoom in or out using the slider bar on the top right side of the Google Earth window. Ideally, try to fit the entire program inside the viewing window.

Once you have navigated to your program, right click on the program name within the Data Folder and select “Properties”.

You will get a message on the screen that says “You are trying to edit a collection of geometry items. Only editing the first item will be possible”. Click “OK”.



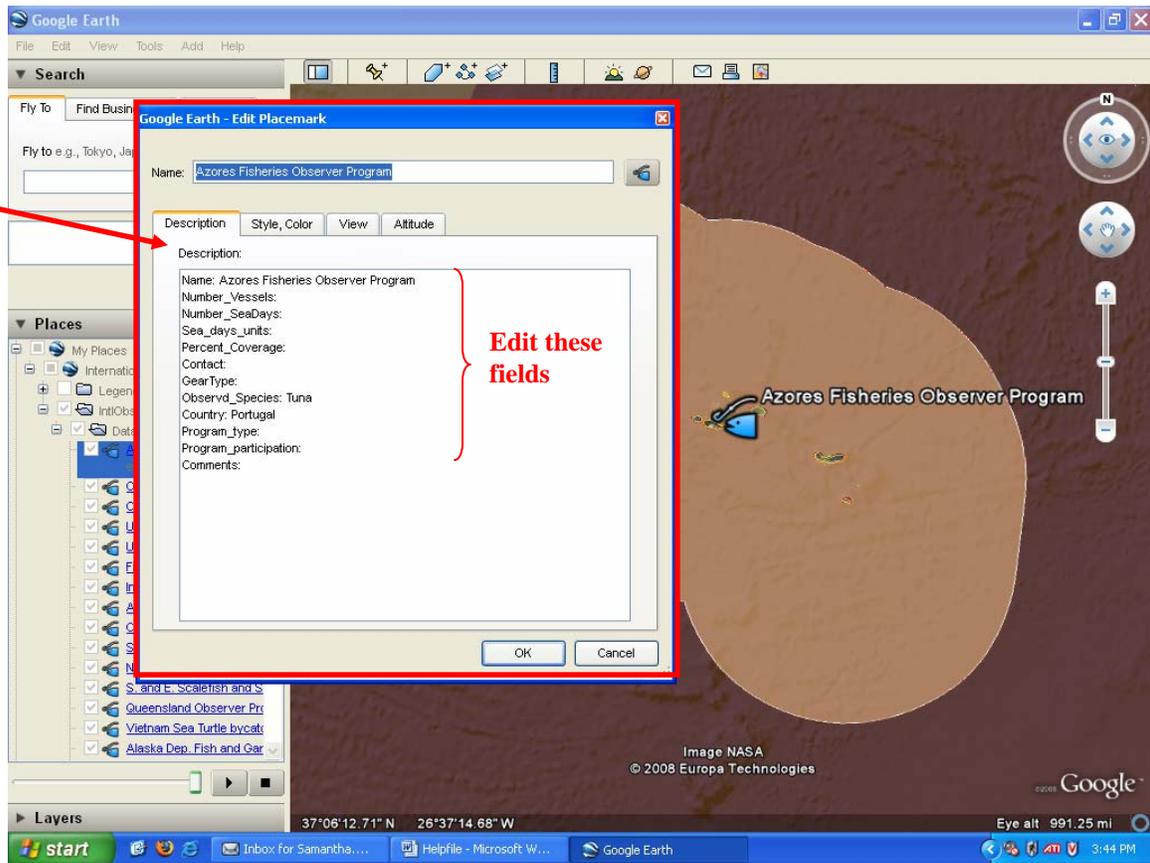
Editing Program Information

A window opens with information on your program (see illustration below). This is called a “placemark” window. You are now in editing mode. Please edit the program description by adding/correcting information in the following fields:

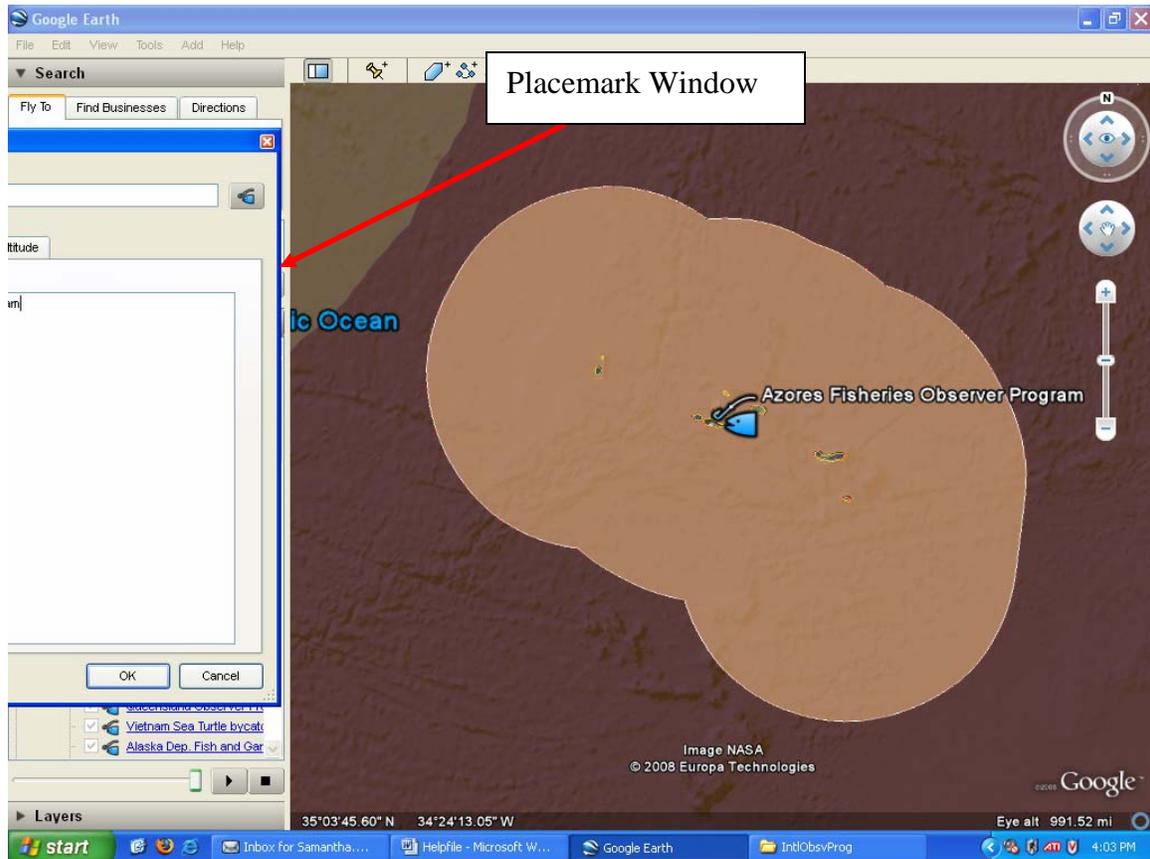
- Name: *this field should contain the program name. NOTE- if you change the program name, please change the text in both places- at the top of the window and in the description box.*
- Number_Vessels: *list the total number of vessels in the observed fishery or fisheries.*
- Number_Sea_Days: *list the total number of days, trips, hauls, etc. observed each year.*
- Sea_Days_Unit: *identify where your program observes sea days, trips, hauls.*
- Percent_Coverage: *enter the percent coverage.*
- Contact: *enter the program contact’s name (e.g. program manager)*
- Gear_Type: *enter the gear types observed.*
- Observed_Species: *enter the major species/species groups reported (catch and bycatch).*
- Country: *enter the country or countries participating in the program. If the program is part of a regional fisheries management organization (RFMO) include the RFMO name in the “Comments” section.*
- Program_Type: *describe whether the program includes sea sampling, port sampling, electronic monitoring, observers, or other data collection methods (specify).*
- Program_Participation: *is the program mandatory, voluntary, etc.*
- Comments: *provide other information about your program here.*

Other tabs do not need to be edited (Style, Color, View, Altitude).

Program Description



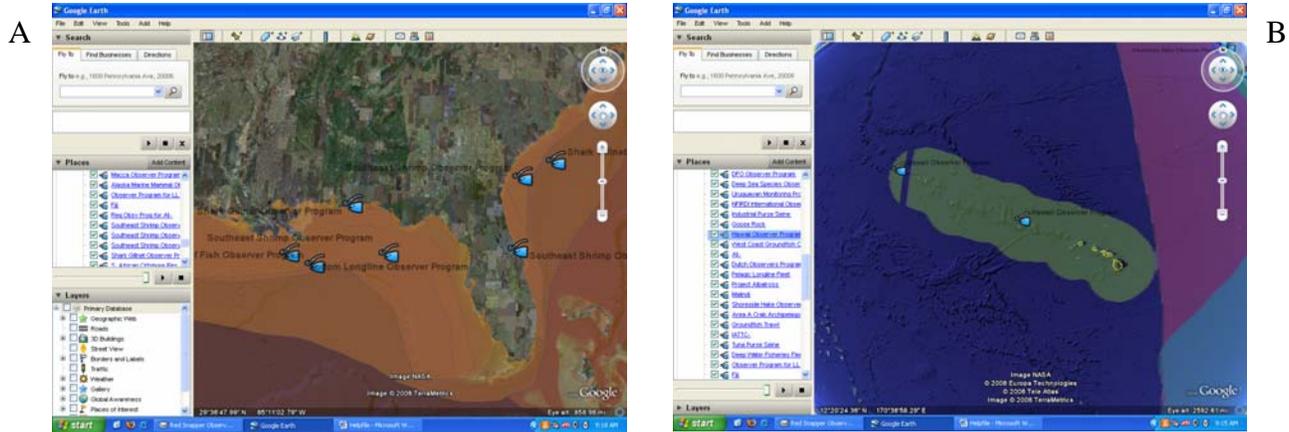
Once you have made your changes, move the placemark window to the side of the screen (click and drag). This will provide you with a better view of the screen when editing the program coverage area in the next step.



Editing Coverage Area

Review the general area indicated as covered by your program- this is the colored in polygon on the map labeled with your program name.

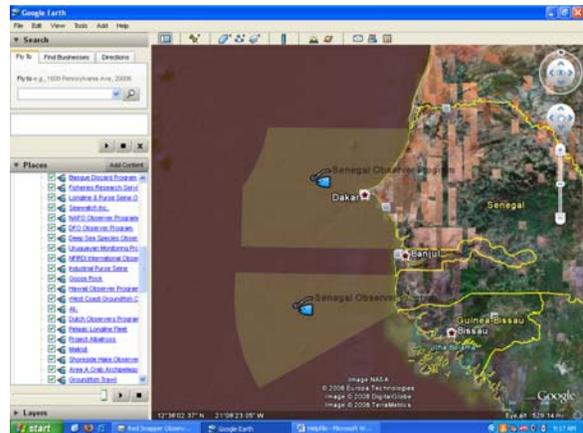
- Program coverage areas appear as filled polygons with white borders.
- The program name is located in the center of the polygon.
- NOTE: if the area covered by an observer program is “split” by a land feature, such as a peninsula, or a geographic feature, such as the 180° line, it will appear as two separate programs (see illustrations below).
- If the coverage area of your program appears accurate, you are finished. Click “okay” to save your changes to the description and skip to page 9 of this document.



A. The Southeast Shrimp Observer Program was split into separate polygons by the Florida peninsula.

B. The Hawaii Longline Observer Program was split into two polygons by the 180° line.

C. The Senegal Observer Program was split into two polygons by the EEZ of Gambia.



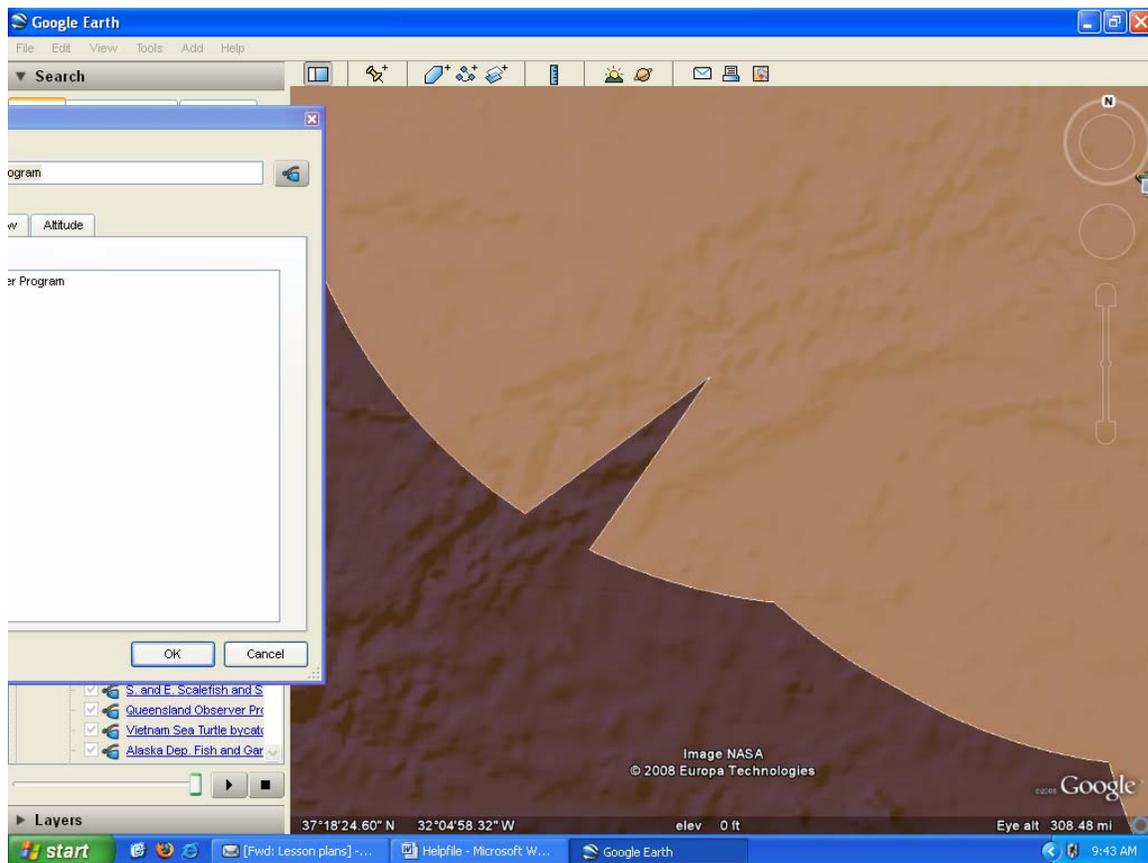
In many cases, the coverage areas for a program corresponded with a country’s EEZ; however, there were also many coverage areas from the 2007 IFOC map that were difficult to interpret.

To change the coverage area:

If the coverage area for the observer program you are editing appears inaccurate, you will need to adjust the boundaries of the polygon. You may have already noticed that the boundary of the polygon in editing mode appears as a series of red dots. When you hold your cursor over the dots, it changes from a set of crosshairs to a hand. When the hand tool is held over a red dot, the dot changes from red to green: it is now “selected”. When

a dot is selected, you can move it anywhere you like, thus adjusting the border. The dots are quite small, so it may be helpful to zoom in quite close.

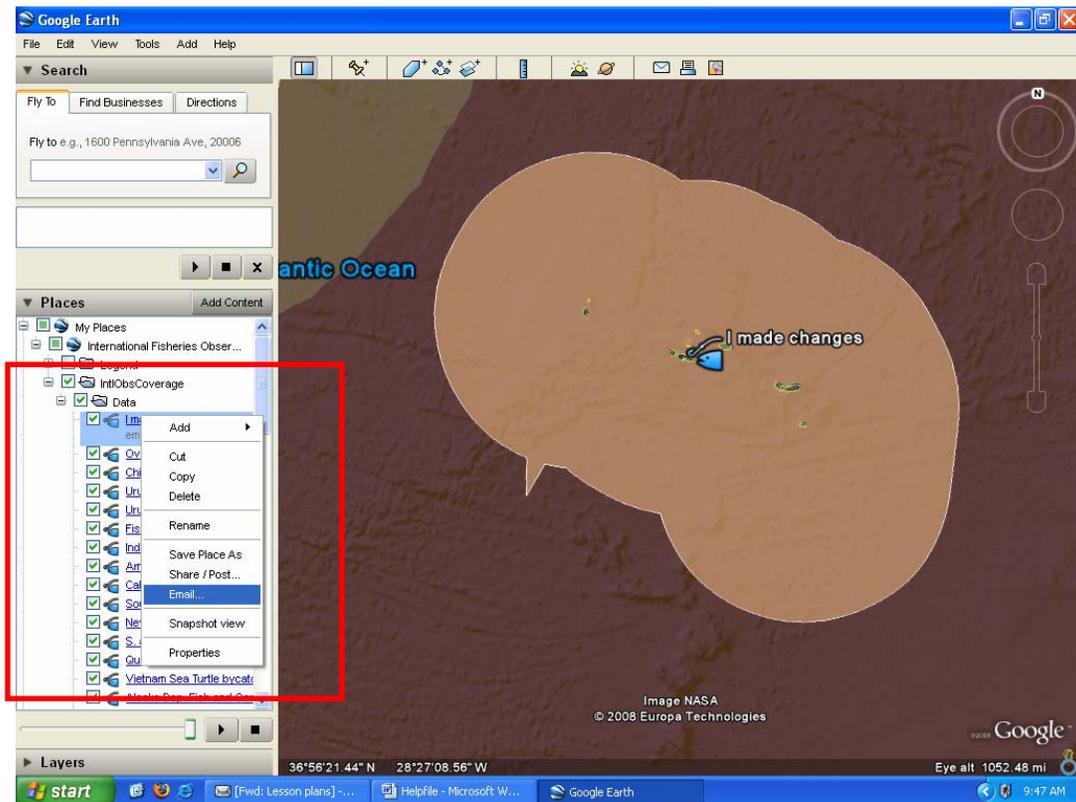
- To move the screen around while you are in editing mode, remember to use the middle radial button on the top right hand side of the screen.
- You can no longer click and drag to move the earth around. If you do so, you will accidentally adjust the boundaries of your polygon. Don't worry if you make a mistake. If you do, hit the "backspace" key on your keyboard, which will take you back one step.
- Clicking inside or outside of the existing polygon will also add new points (vertices) that you can use to adjust the polygon's boundaries.



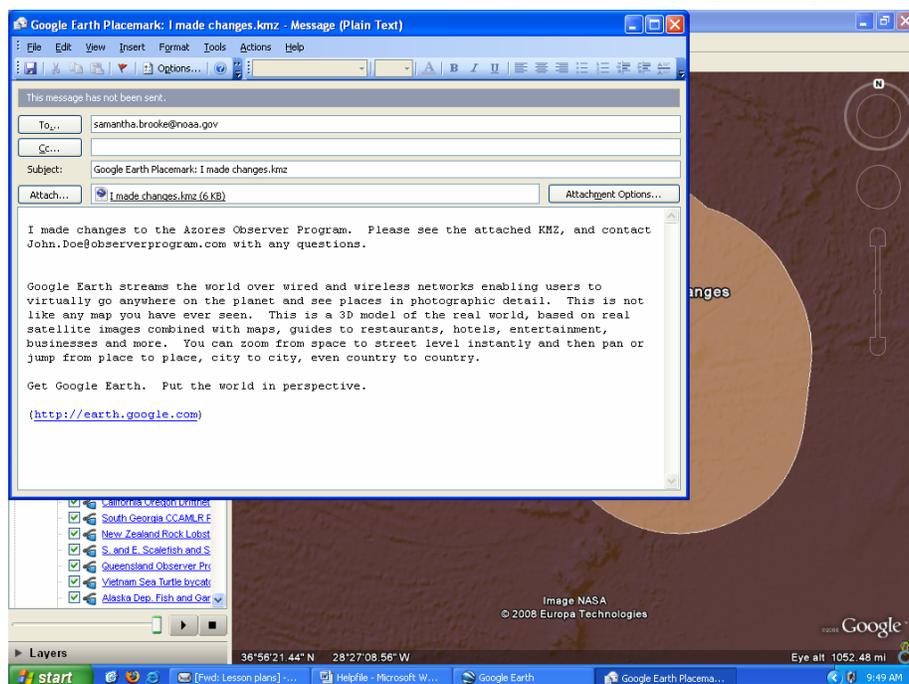
When you have completed your edits, click "OK" in the placemark window. You can edit the placemark as many times as you like.

Submitting Your Changes

To send your changes to the U.S. National Observer Program, right click on the program name in “places” menu, on the left side of the screen. You will see an option to “Email”.



Using Gmail or your default email system, email the revised file to Samantha.Brooke@noaa.gov. Please include your contact information, as well as any questions you have. Please note that some countries have more than one observer program. You will need to edit and submit changes for each program separately.



What Happens Next?

Once we have received your changes, we will update the Google Earth map with them. These changes will be included in the map presented at the 2009 IFOMC and eventually will be part of the publicly accessible version of the map that will be posted on the IFOMC site following the conference.

Contacts

For assistance with the editing process, contact:

Samantha Brooke
(301)713-2363x109
Samantha.Brooke@noaa.gov

Tim Haverland
(301)713-2338x210
Tim.Haverland@noaa.gov