



Switch layer and table displays



Zoom In



Zoom Out



Zoom to Full Extent



Zoom to Active Layer



Back to Previous



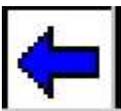
Pan (Drag)



Pan to North



Pan to South



Pan to West



Pan to East



HyperLink/Find



Identify (Information)



Find



Print

The functions of each of these buttons will be discussed in the paragraphs below along with step-by-step instructions on how to use the NAIMES Graphical TFR system.

1.2 NAIMES Graphical TFR Switch Layer and Table Display Feature

The NAIMES Graphical TFR Display ‘Switch Layer and Table Display’ feature allows users to customize certain features in the TFR displays.

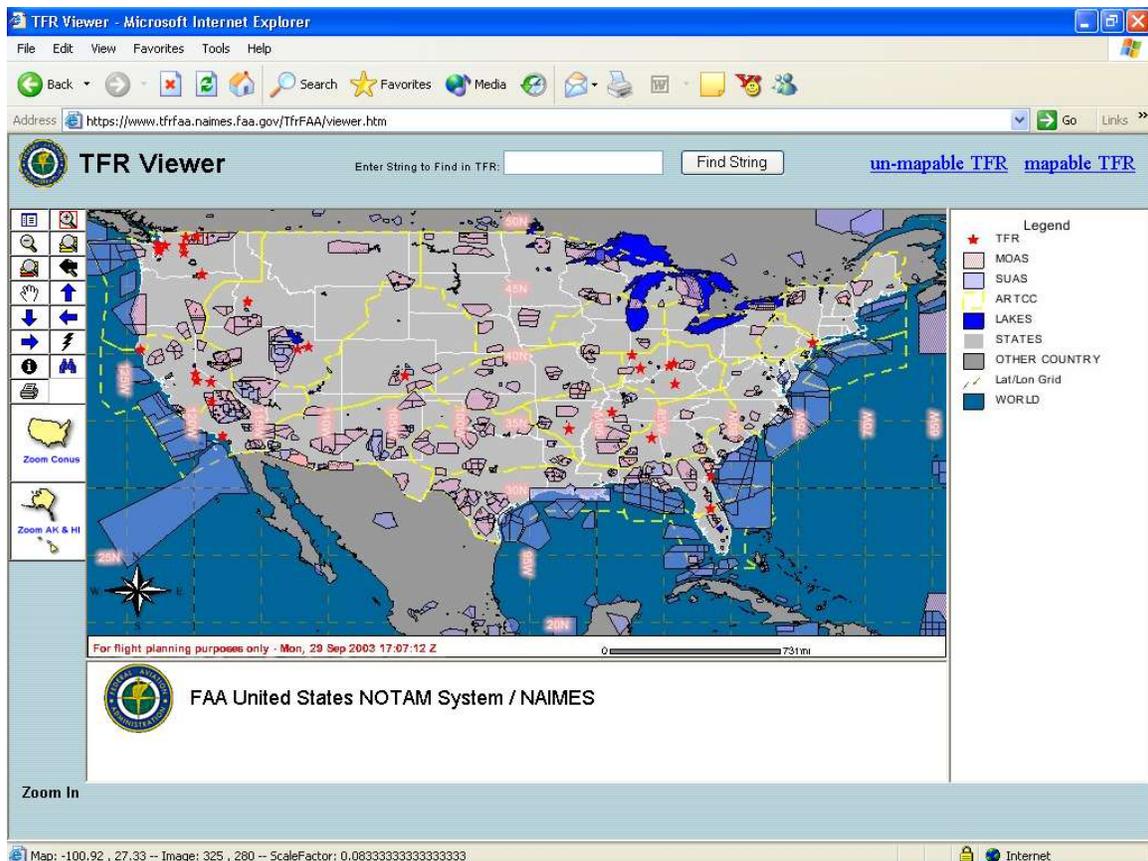
Default features for high level initial display reference points are: TFRs, Interstate Highways, Lakes, and US States.

As the display is selected and ‘Zoomed-In’ (the Zoom feature is described in Paragraph 1.3 NAIMES Graphical TFR Display Zoom-In Feature) additional geographical features (Airports and Cities) are displayed. Using the Switch Layer and Table function the user can customize the display to include or exclude any of these features.

At the lowest display level TFRs are displayed on Sectional Maps.

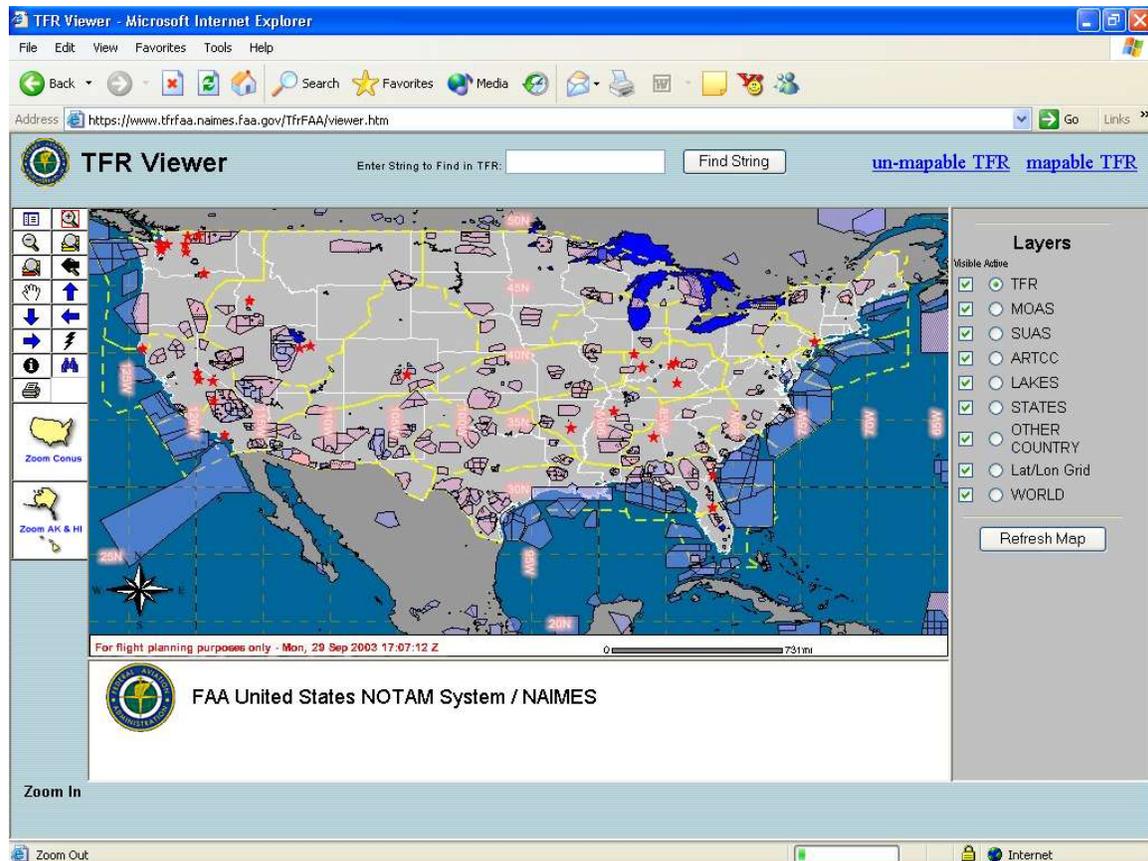
Figure 1.2.1 - NAIMES Graphical TFR Initial Display (below) shows the initial reference points. To customize the display, which will only affect the current session – not any future sessions, the user must switch to the from the Table Display (the default) to the Layer Display menu.

Figure 1.2.1 - NAIMES Graphical TFR Initial Display



- To customize this display the user must change the display menu on the right side of the screen by clicking on the ‘Switch Layer and Table Display’ button.
- Figure 1.2.2 - NAIMES Graphical TFR Display Layer Menu (below) shows the result.

Figure 1.2.2 - NAIMES Graphical TFR Display Layer Menu



- The ‘active’ layers for this display can be modified by de-selecting the check box under the ‘Visible’ Column and then clicking the ‘Refresh Map’ button.
- Figure 1.2.3 - NAIMES Graphical TFR Display Layer w/out Interstate (below) shows the resulting display when the ‘SUA’ and ‘MOA’ check boxes are de-selected and the map is refreshed.

Figure 1.2.3 - NAIMES Graphical TFR Display Layer w/out SUA/MOAs

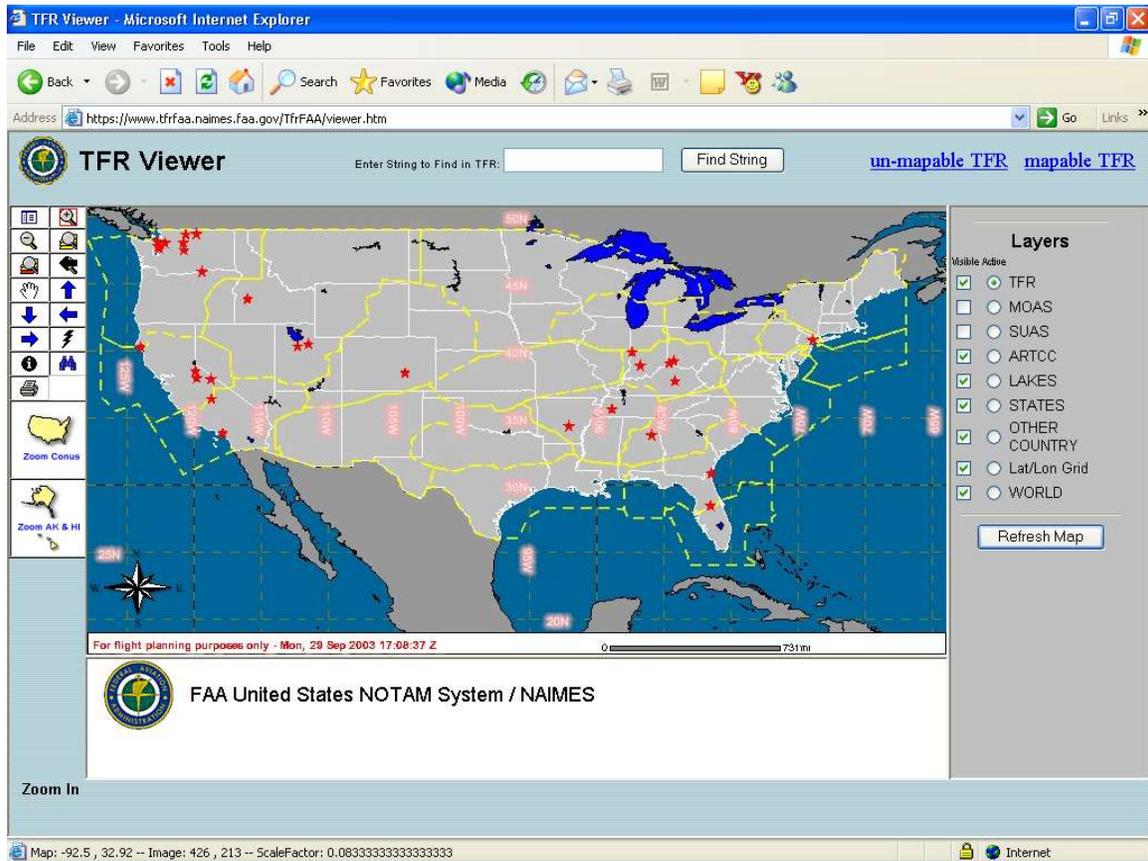
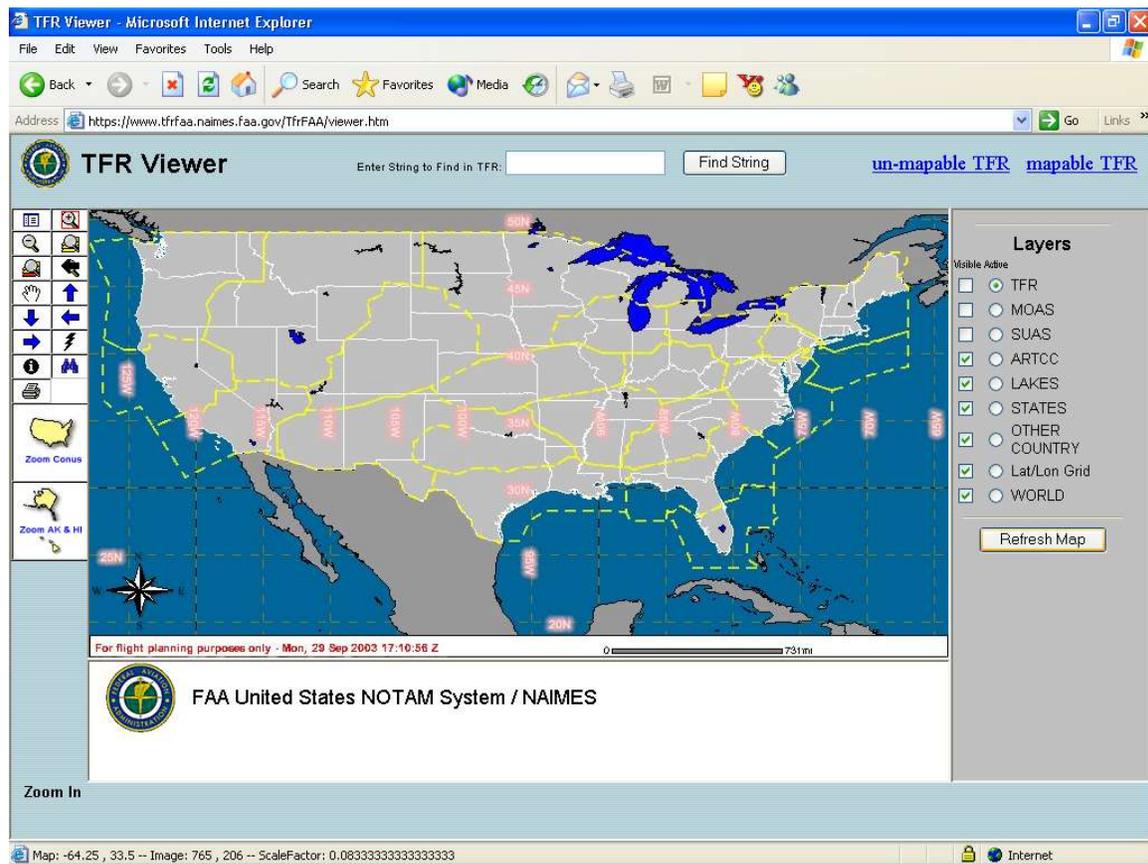


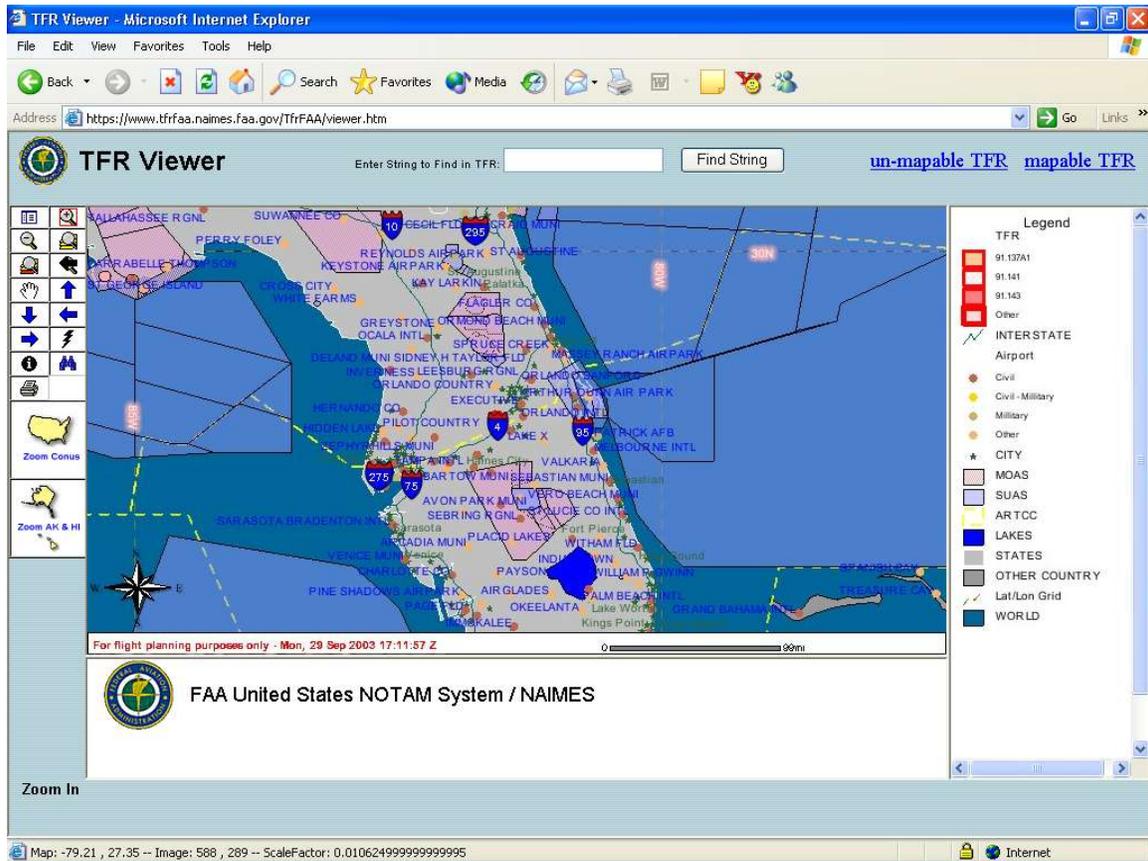
Figure 1.2.4 - NAIMES Graphical TFR Display Layer w/out SUA/MOAs depicts the result of de-selecting both the SUA/MOA and TFR options.

Figure 1.2.4 - NAIMES Graphical TFR Display Layer w/out SUA/MOAs & TFRs



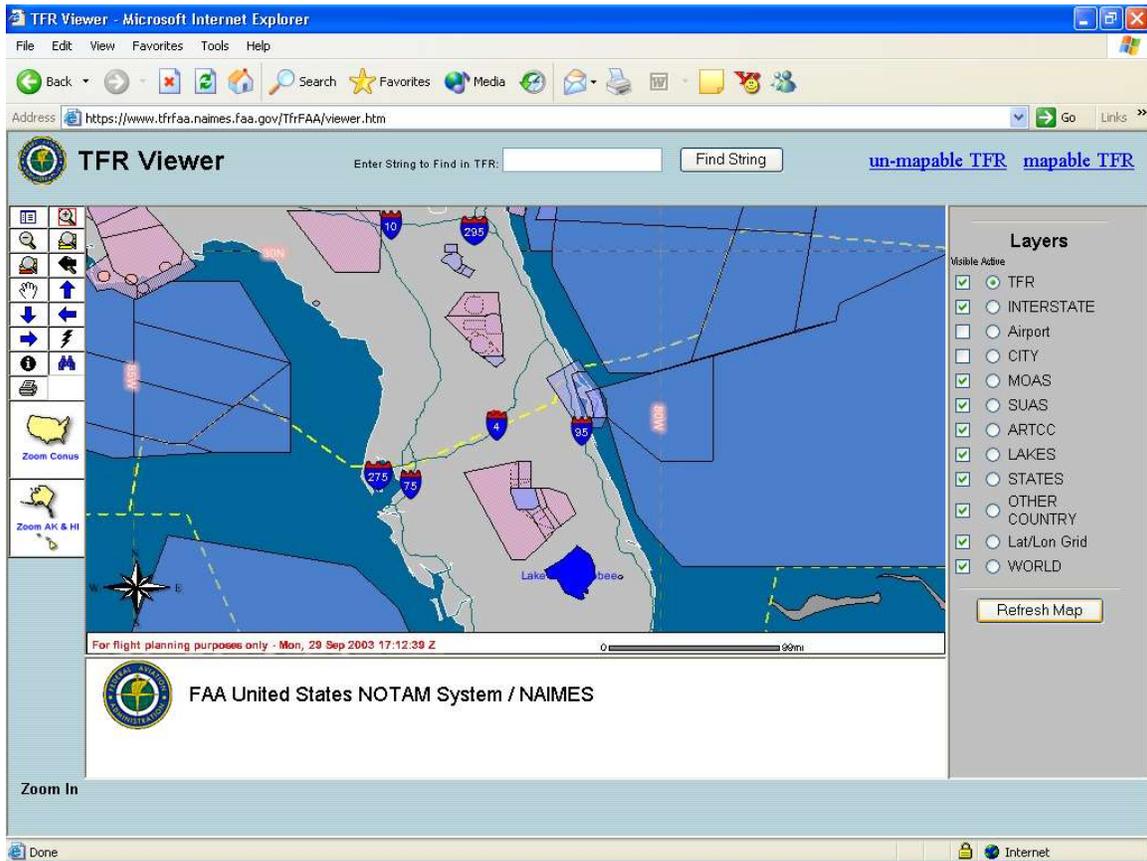
- To restore and of the features the user can simply re-select the Layers desired and Refresh the map again.
- Geographical features are added as the display becomes more localized. In Figure 1.2.5 - NAIMES Graphical TFR Intermediate Display Layer (below) the display is localized to the southern part of the state of Florida. In this display individual airports and cities are automatically added to the display.

Figure 1.2.5 - NAIMES Graphical TFR Intermediate Display Layer



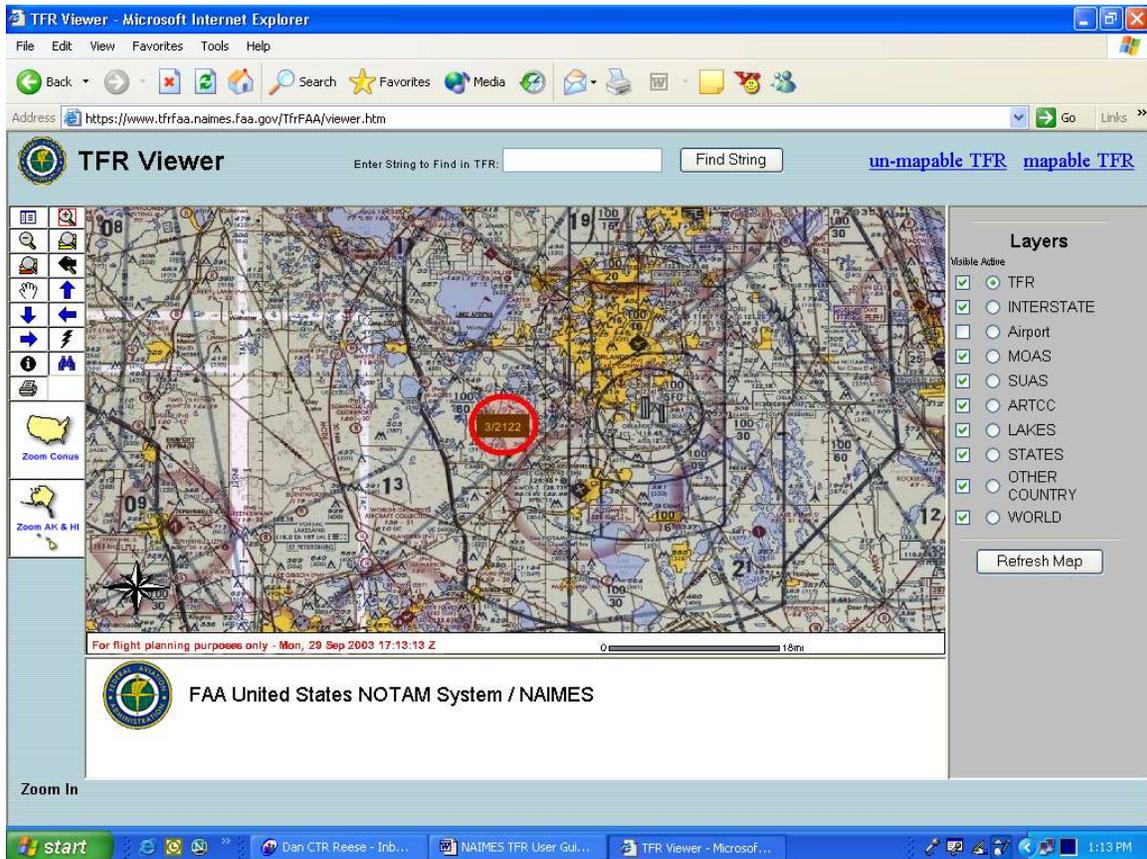
- As with the previous display the additional Layers can be deselected at the user's option.
- Figure 1.2.6 - NAIMES Graphical TFR Intermediate Display Layer without Airport & City shows the updated display with these layers deselected.

Figure 1.2.6 - NAIMES Graphical TFR Intermediate Display Layer without Airport & City



- At the lowest level display sectional maps are displayed. De-selecting any of the Layer options at this level doesn't affect the display.

Figure 1.2.7 - NAIMES Graphical TFR Sectional Display

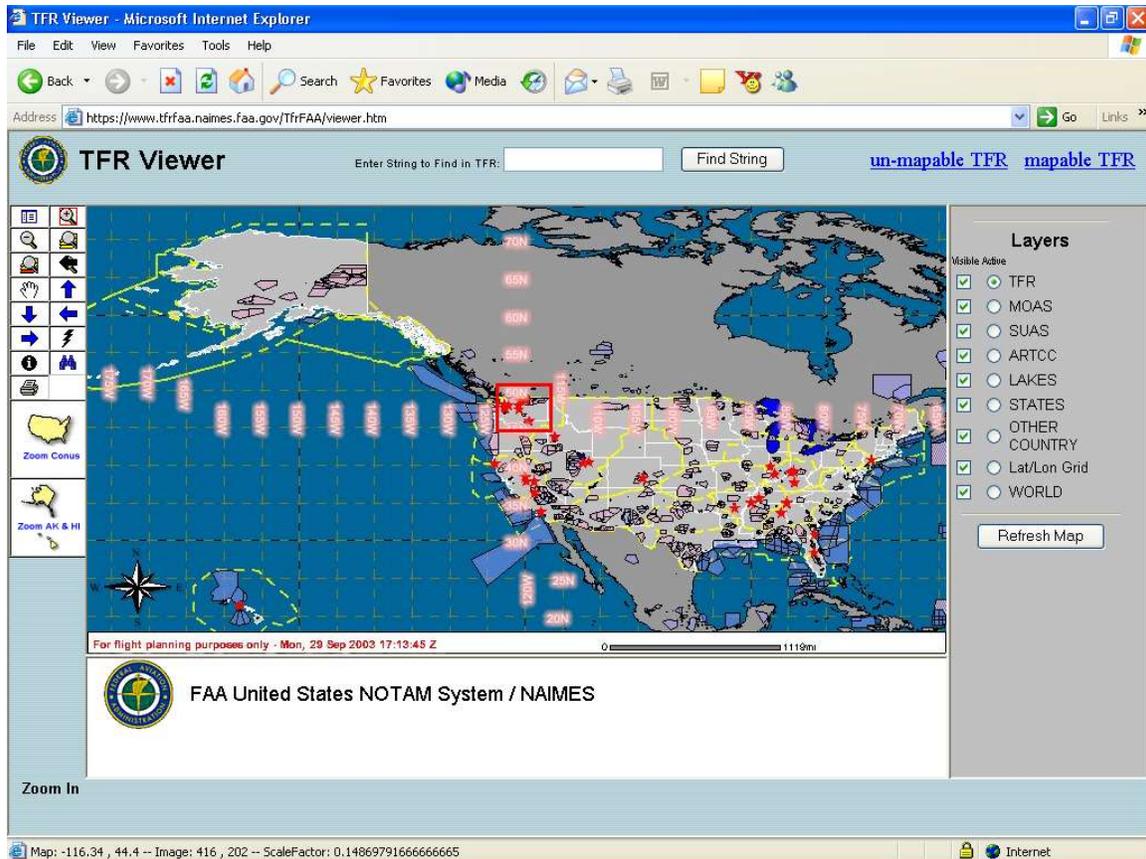


- At any time users can use the ‘Switch Layer and Table Display’  button to go back to the default Table display.

1.3 NAIMES Graphical TFR Display Zoom-In Feature

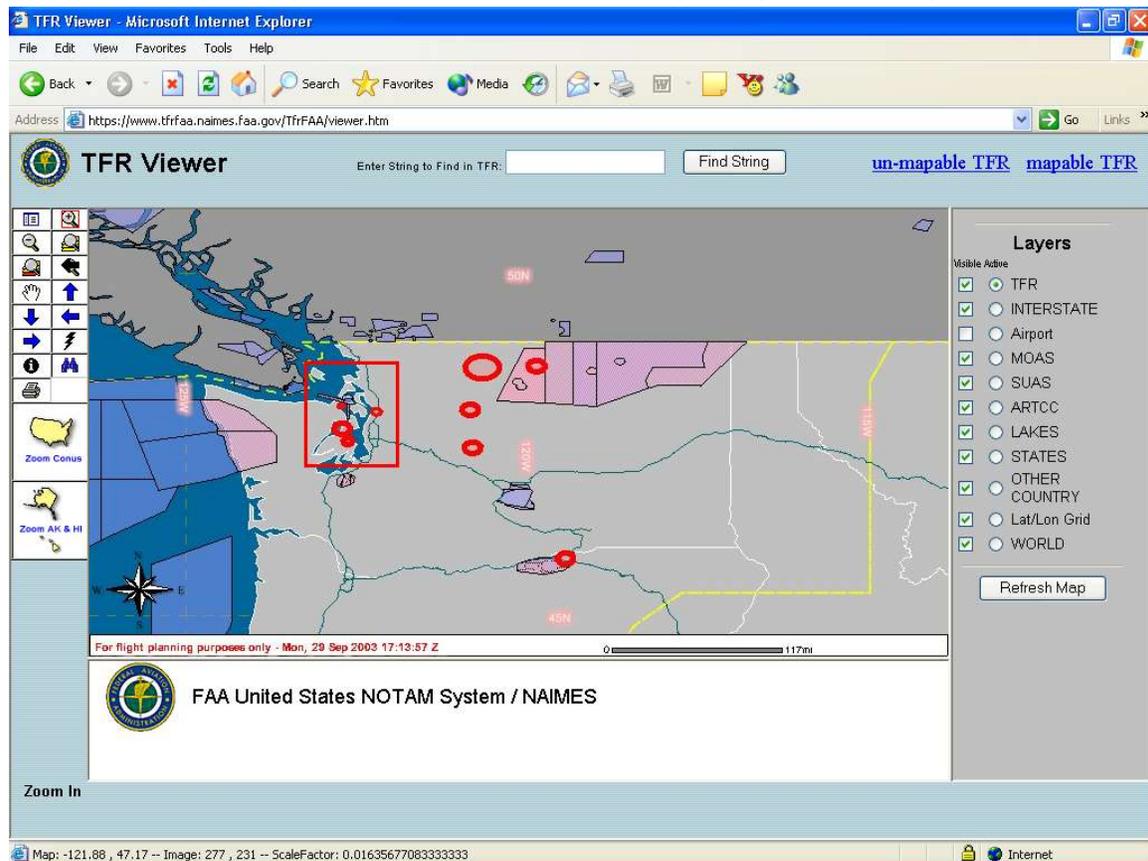
The NAIMES Graphical TFR Display Zoon-In Feature is the tool that allows users to localize or ‘drill down’ to the level of display and detail needed. This feature will be one of the most used option in the Graphical TFR service offering.

Figure 1.3.1 - Using the Graphical TFR Zoom-In Feature



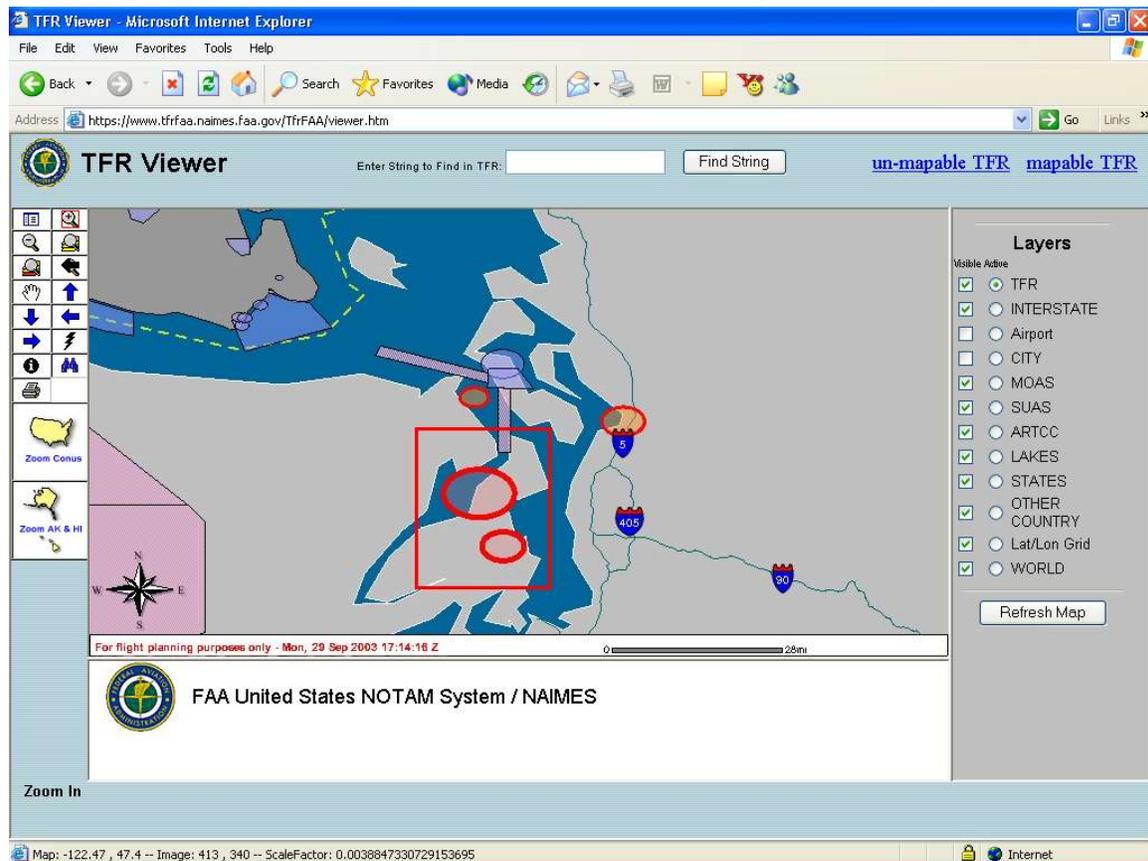
- To use the NAIMES Graphical TFR Zoom feature ensure that the ‘Zoom In’  button is selected (a red highlight will appear when the button is clicked). This is the default feature for the Graphical TFR Display page.
- Use the mouse to ‘draw’ a square around the area that you wish to zoom-in on
- When the square is drawn and the mouse button is released the page will display the area you have selected

Figure 1.3.3 - Graphical TFR Zoom-In Display (continued)



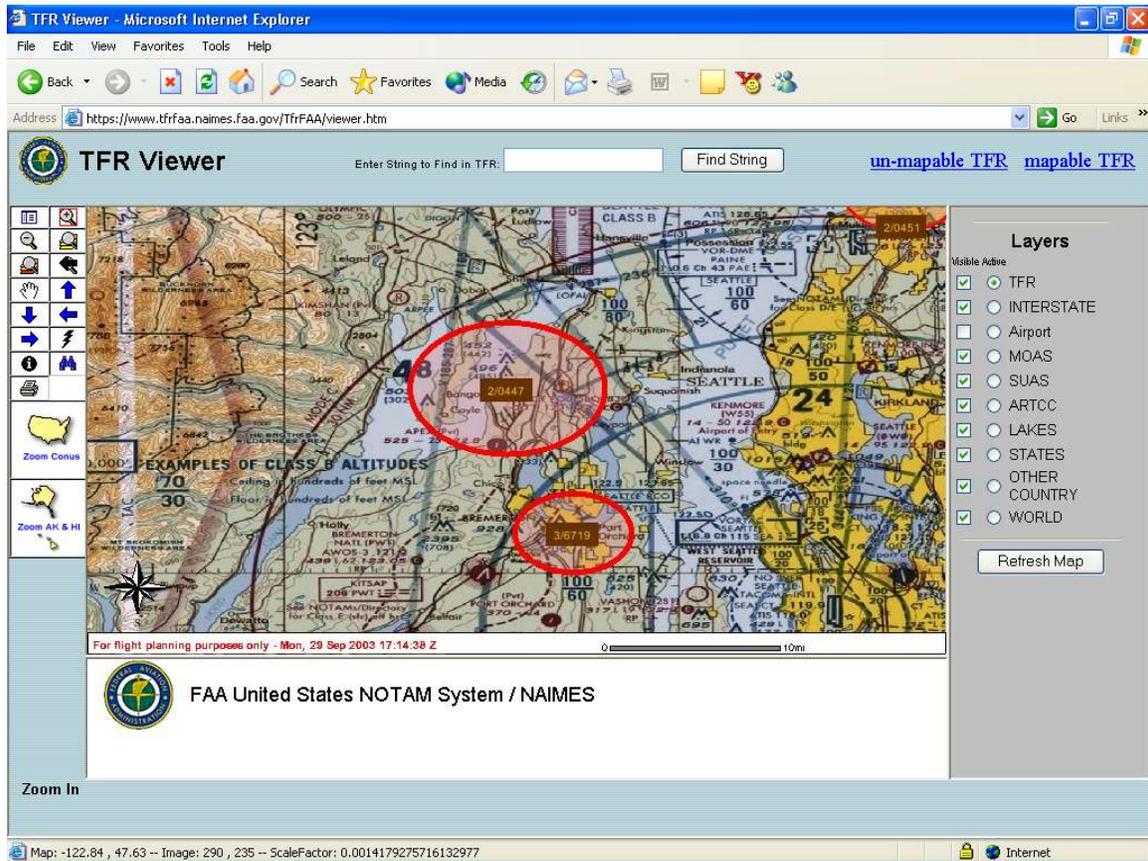
- At the highest level of the map the indicator that there are TFR(s) active in a general location. As the map is 'drilled down' to a closer local level users can begin to see that there can be multiple TFRs active in an area.
- Figure 1.3.4 - Graphical TFR Zoom-In Display (continued) below shows the result of the Zoom request above.

Figure 1.3.4 - Graphical TFR Zoom-In Display (continued)



- At closer elevations the display is updated to show the details of the TFR (i.e. NOTAM number, and it's location on a sectional map).
- The Zoom-In feature remains active, even while the sectional map is displayed and the user can continue to use it to get the level of detail required.

Figure 1.3.5 - Graphical TFR Zoom-In Display (continued)

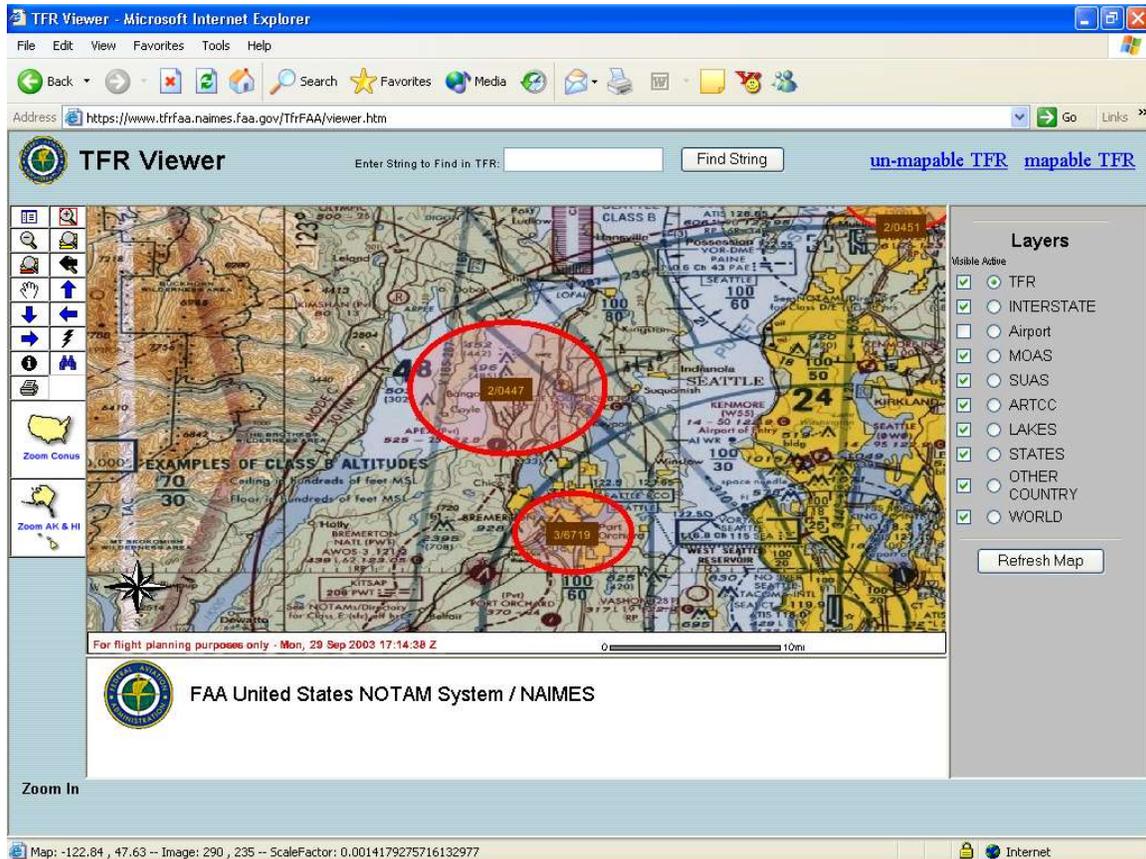


- Users can display any level of detail that they wish by continuing to zoom in on the display by selecting more detailed areas using the mouse.

1.4 NAIMES Graphical TFR Display Zoom-Out Feature

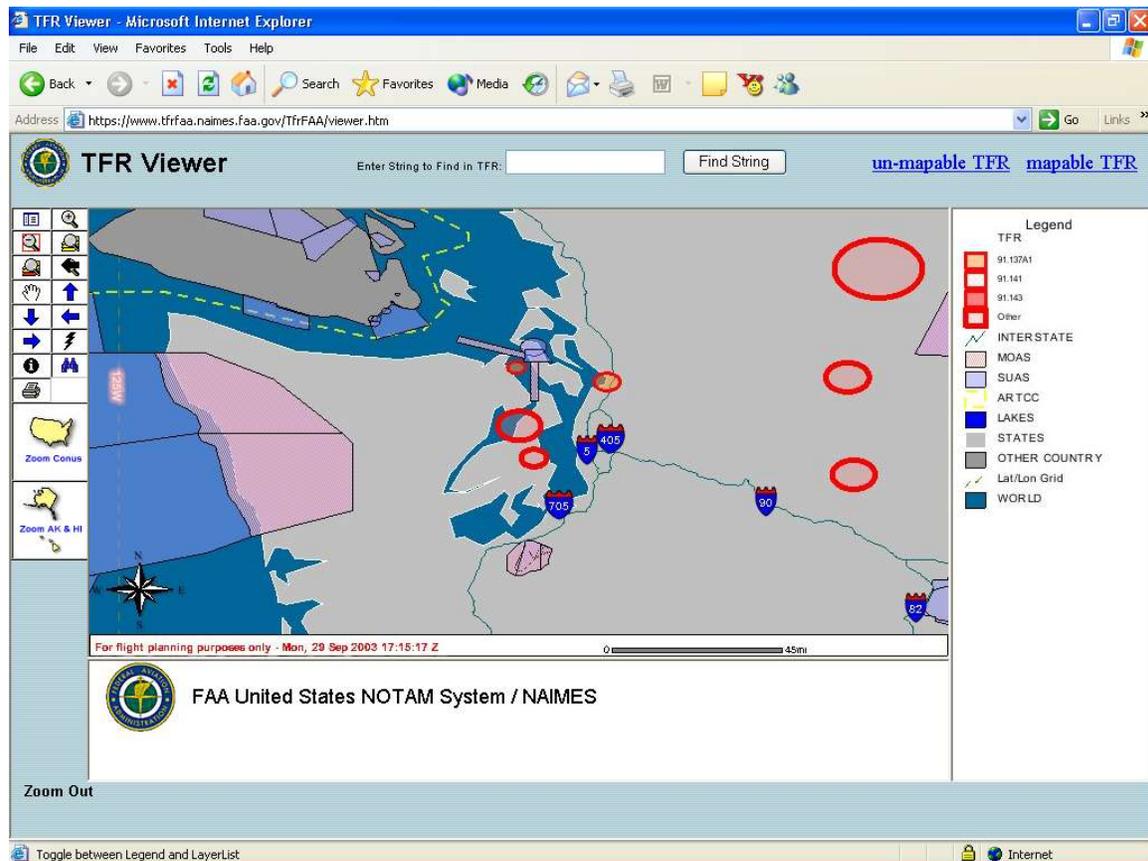
The NAIMES Graphical TFR Display Zoom-Out Feature is another tool that allows users to change to the level of display and detail needed. This feature, the opposite of the Zoom-In feature, allows a user to raise the level of display to the desired ‘altitude’.

Figure 1.4.1 - Using the Graphical TFR Zoom-Out Feature



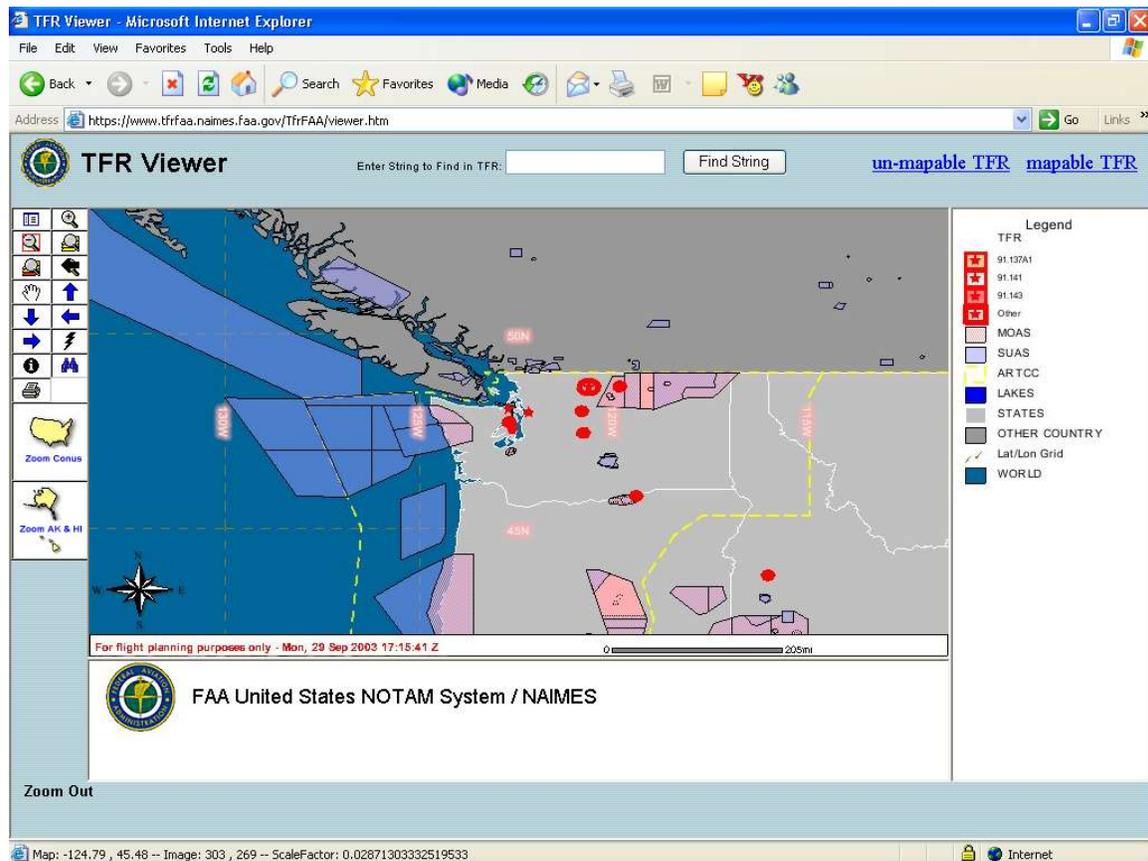
- To use the NAIMES Graphical TFR Display ‘Zoom-Out’ feature click on the Zoom-Out  button, which will then be highlighted in red indicating that it is the active zoom feature.
- Clicking on any part of the display will activate this feature. Figure 1.4.2 - NAIMES Graphical TFR Zoom-Out Display (below) shows the results of the Zoom-Out Feature.

Figure 1.4.2 - NAIMES Graphical TFR Zoom-Out Display



- This display is twice the altitude display of the previous screen when the Zoom-Out option was selected (note the Zoom-Out button on this display is highlighted in red indicating that it is the active Zoom function).
- Clicking the display again will Zoom-Out the display even further.

Figure 1.4.3 - NAIMES Graphical TFR Zoom-Out Display (continued)

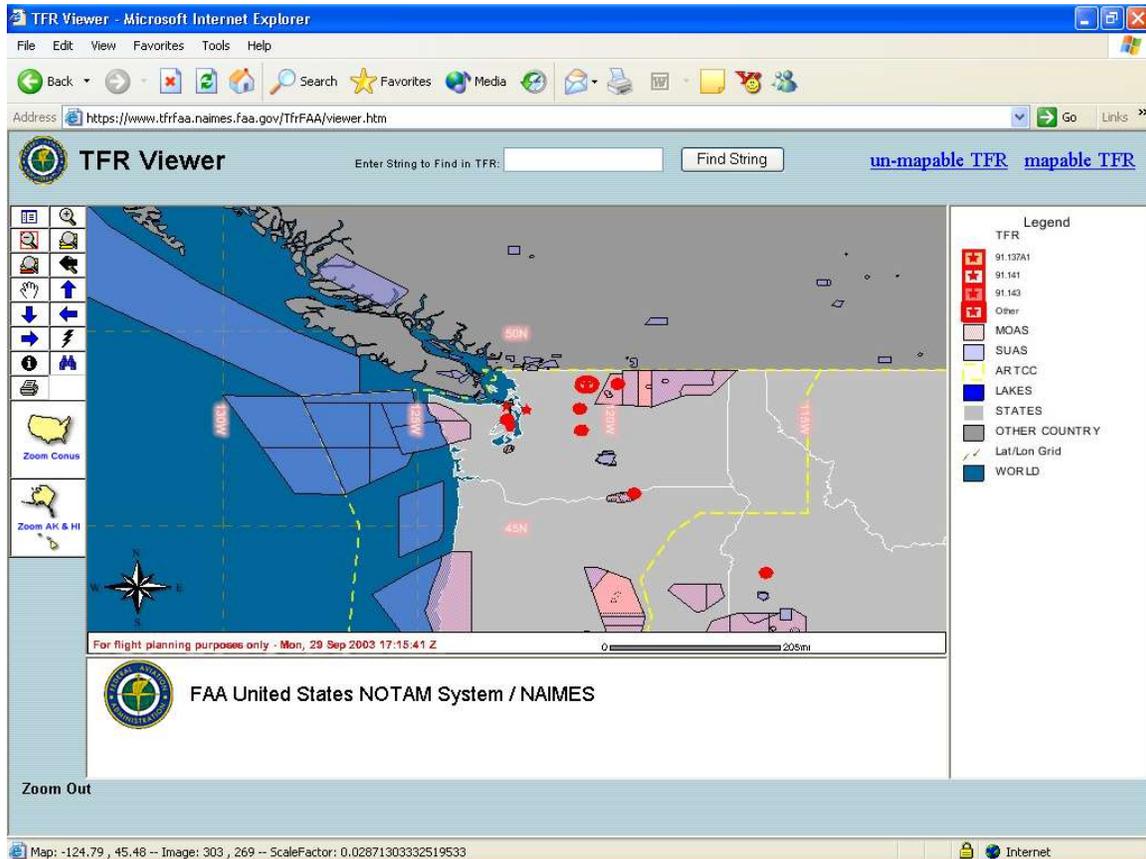


- At this altitude the sectional display is disabled and the user-selected (or default) Layers are again displayed.
- The Zoom-Out feature can be used until the initial display of the entire US reappears.

9.5 NAIMES Graphical TFR Zoom to Full Extent Feature

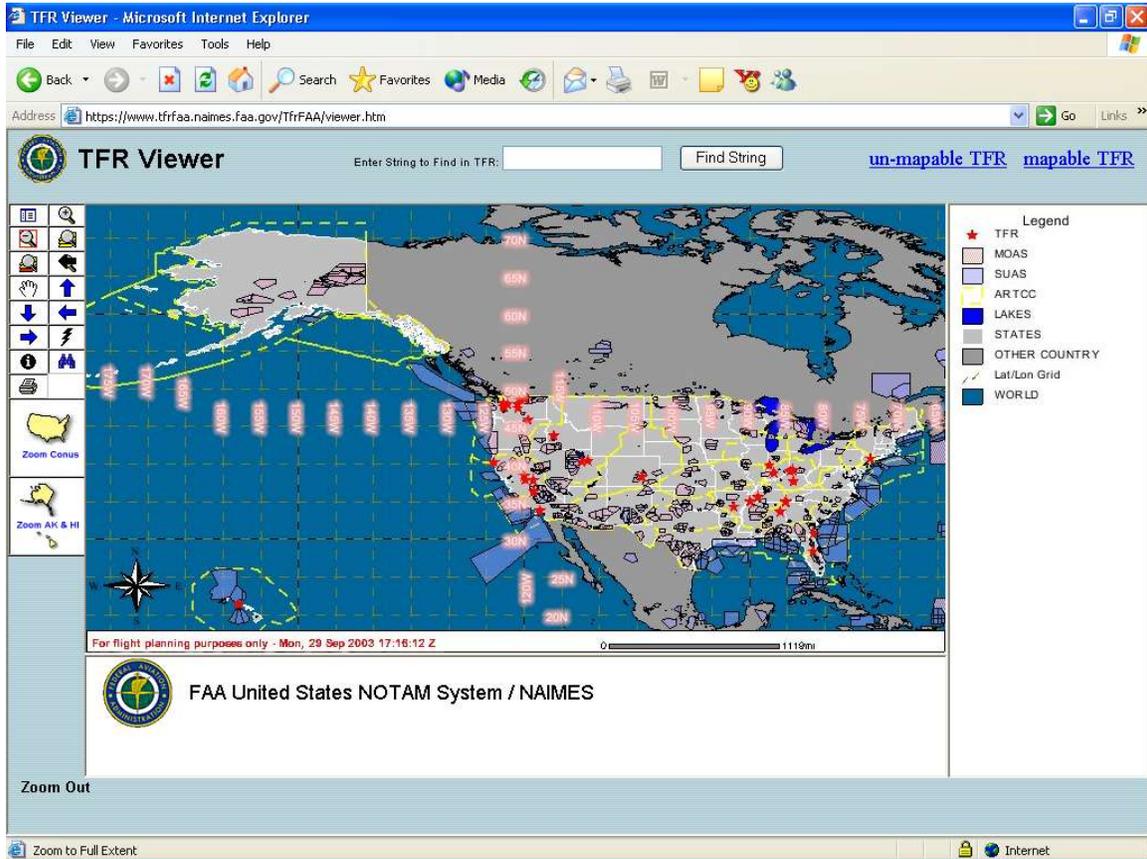
The NAIMES Graphical TFR Zoom to Full Extent Feature is used to immediately return to the high level, initial display from any active screen.

Figure 1.5.1 - NAIMES Graphical TFR Zoom to Full Extent Feature



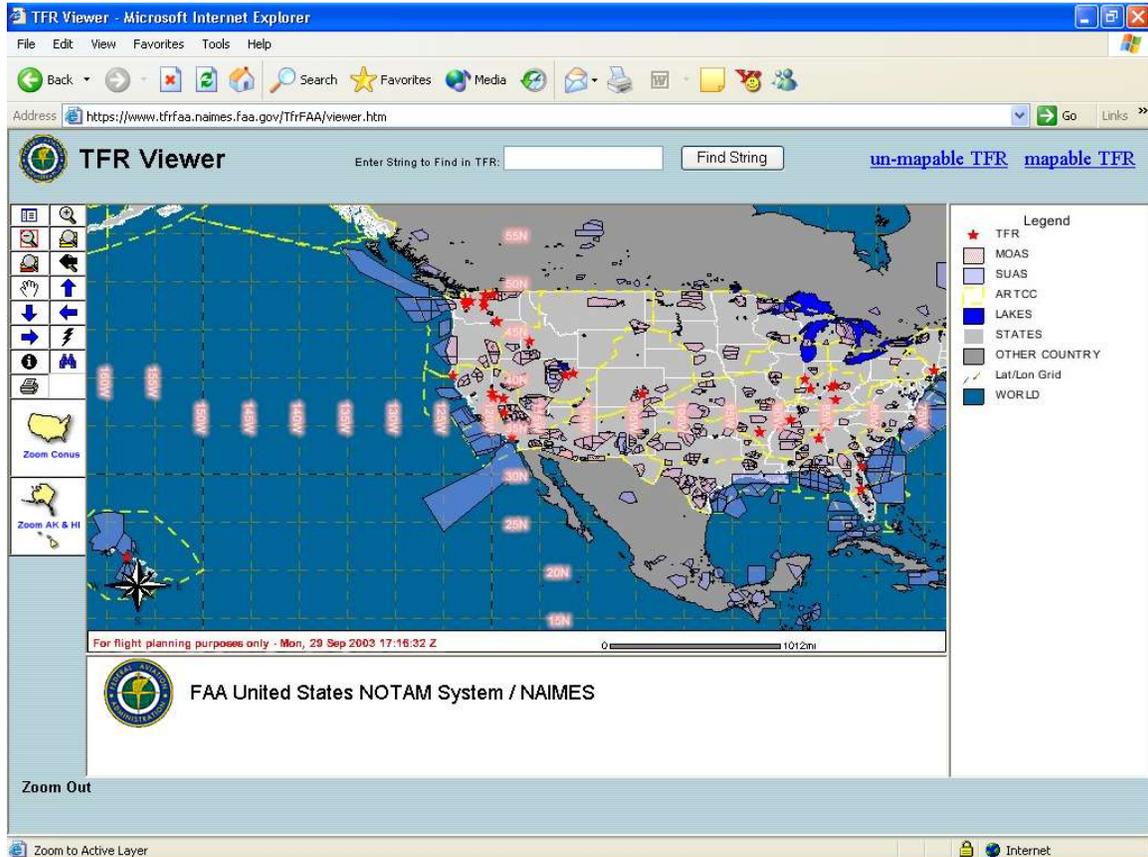
- To activate the Zoom to Full Extent Feature from a lower level display as in the example above the user clicks the Zoom to Full Extent  button, one time.
- Once clicked, the initial high level Graphical TFR display is presented to the user as shown in Figure 1.5.2 - NAIMES Graphical TFR Zoom to Full Extent

Figure 1.5.2 - NAIMES Graphical TFR Zoom to Full Extent



9.6 NAIMES Graphical TFR Zoom to Active Layer Feature

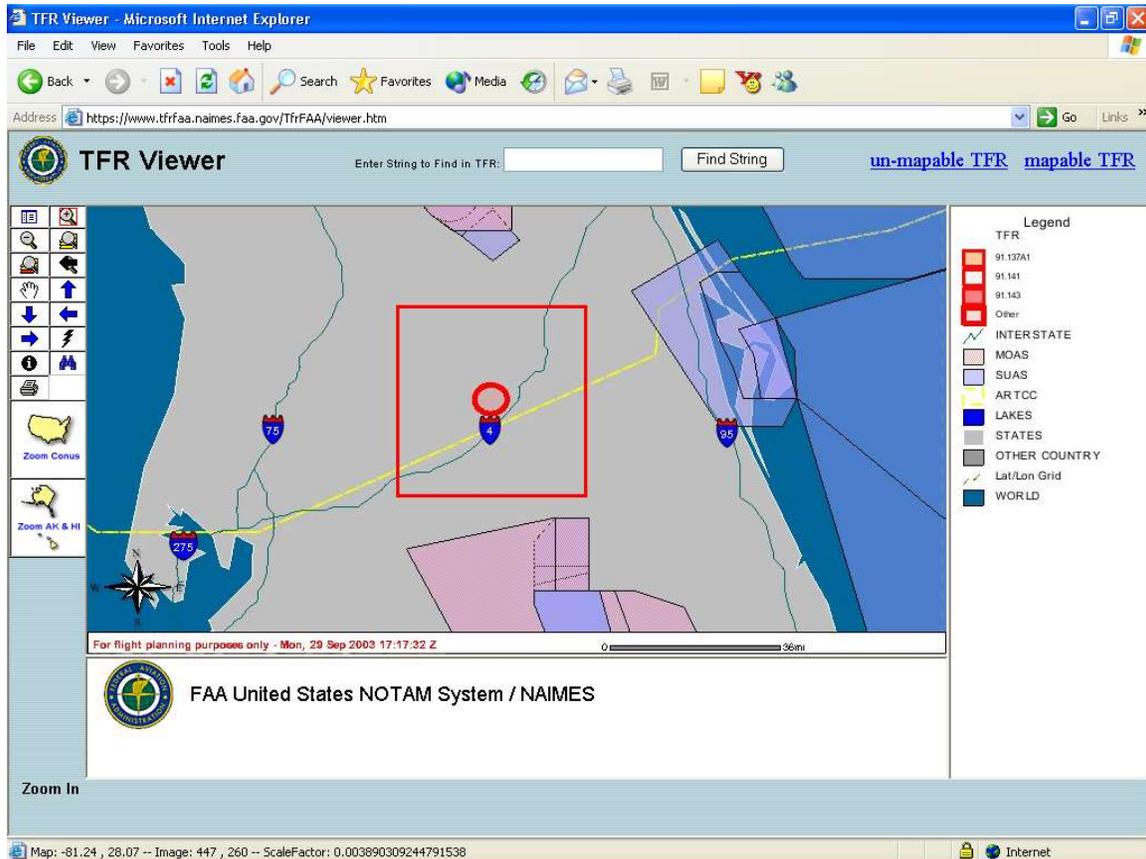
The NAIMES Graphical TFR Zoom to Active Layer Feature is essentially the same as the Zoom to Full Extent feature.



9.7 NAIMES Graphical TFR Back to Previous Feature

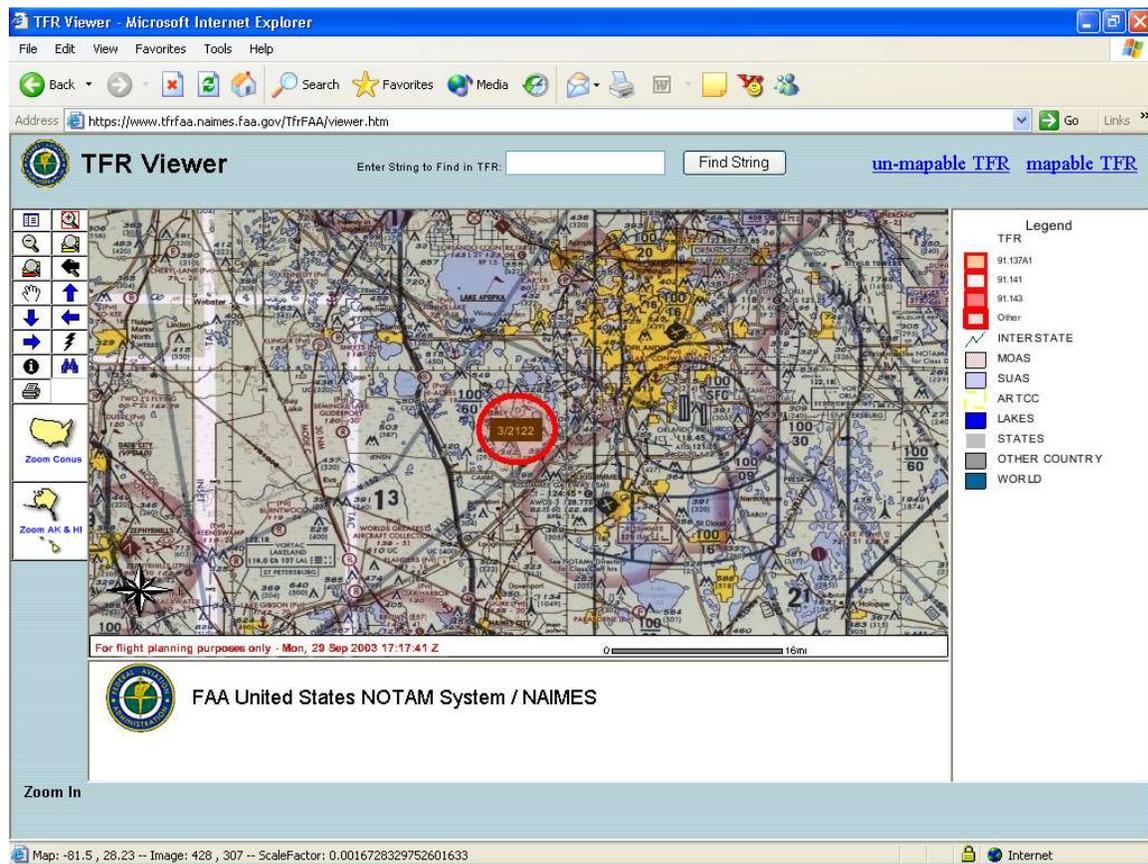
The NAIMES Graphical TFR Back to Previous Feature is a facility that performs the same function as a browser 'Back' function and re-displays the previous screen. This feature only provides the ability to go back one screen.

Figure 1.7.1 - NAIMES Graphical TFR Back to Previous Feature



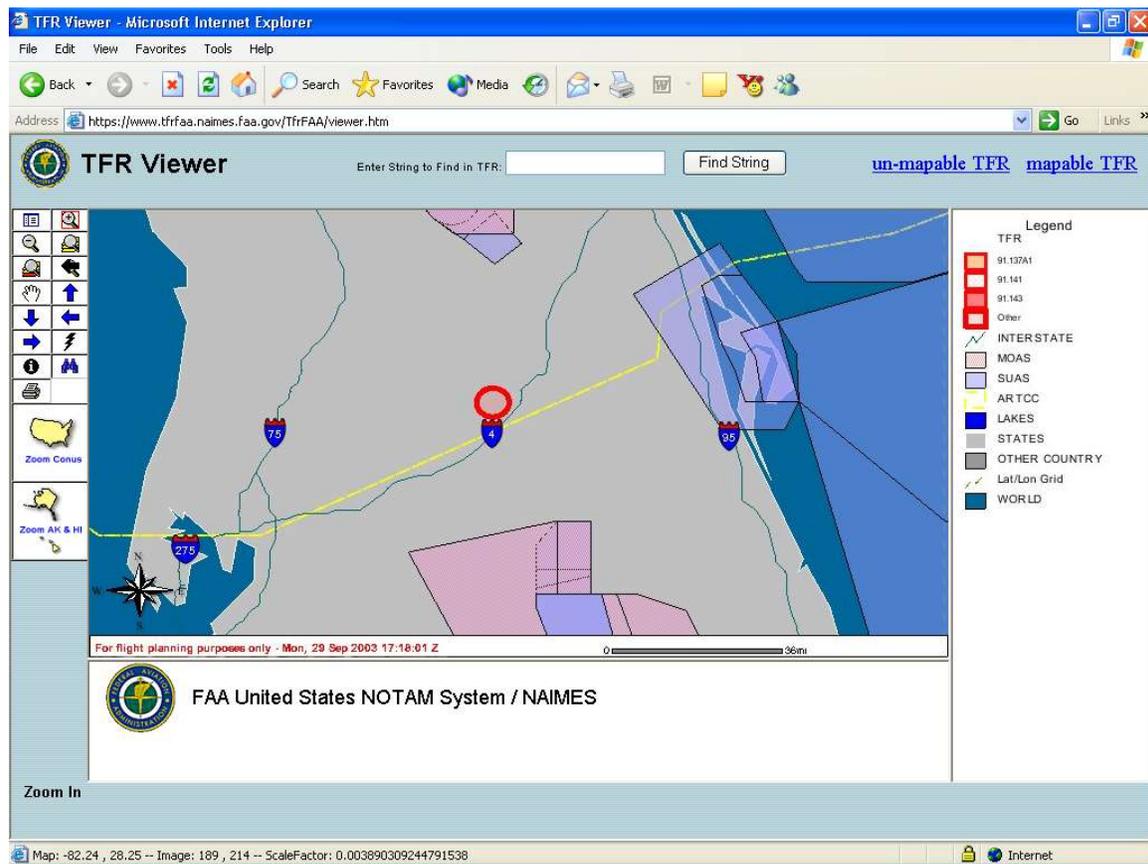
- This initial display of a geographical location shows the first screen for this example.
- Using the 'Zoom-In' Feature a more localized display is requested. See Figure 1.7.2 - NAIMES Graphical TFR Back to Previous Feature (continued) below.

Figure 1.7.2 - NAIMES Graphical TFR Back to Previous Feature (continued)



- By clicking on the 'Back to Previous'  button, users are taken back to the screen displayed immediately before the last action, in this case – Zoom-In. See Figure 1.7.3 - NAIMES Graphical TFR Back to Previous Feature (continued) below.

Figure 1.7.3 - NAIMES Graphical TFR Back to Previous Feature (continued)

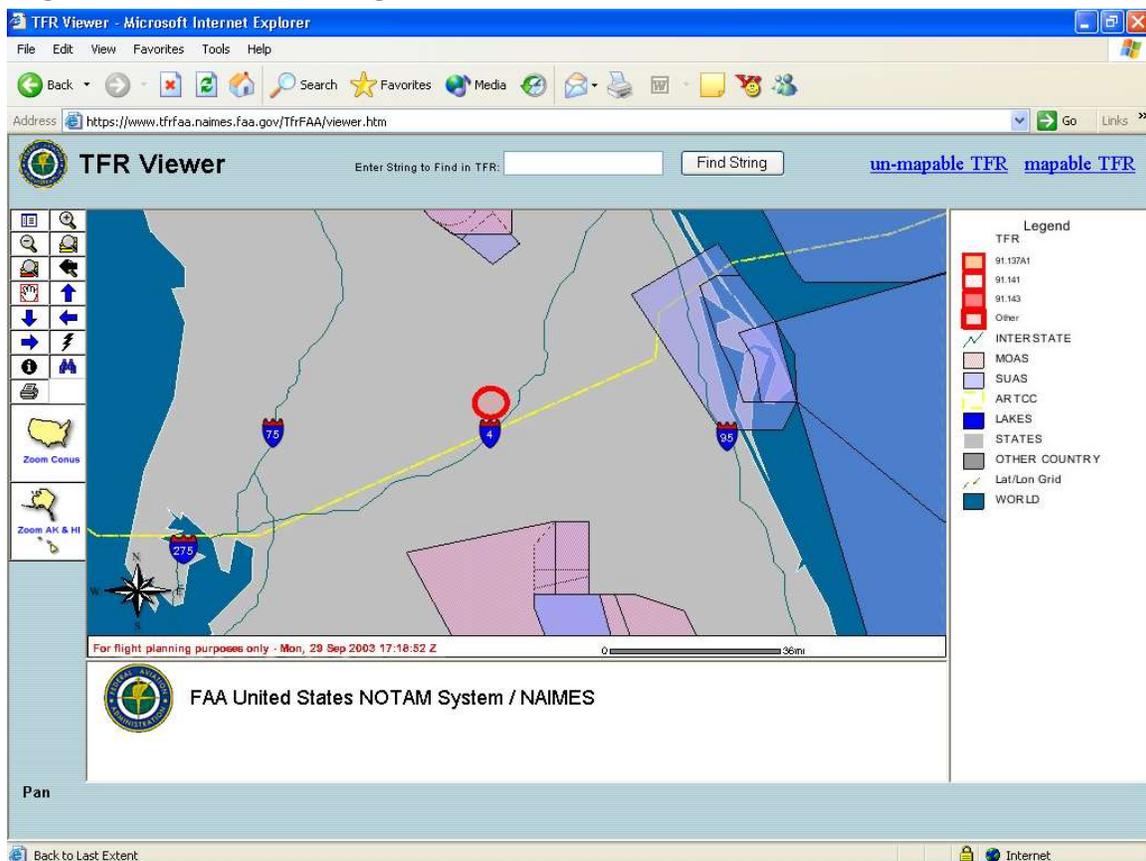


- This feature may only be used to go to the immediately preceding display. Clicking the 'Back to Previous' button will not perform any functions until a new command is executed (Zoom-In, Zoom-Out, etc).

9.8 NAIMES Graphical TFR Panning Features

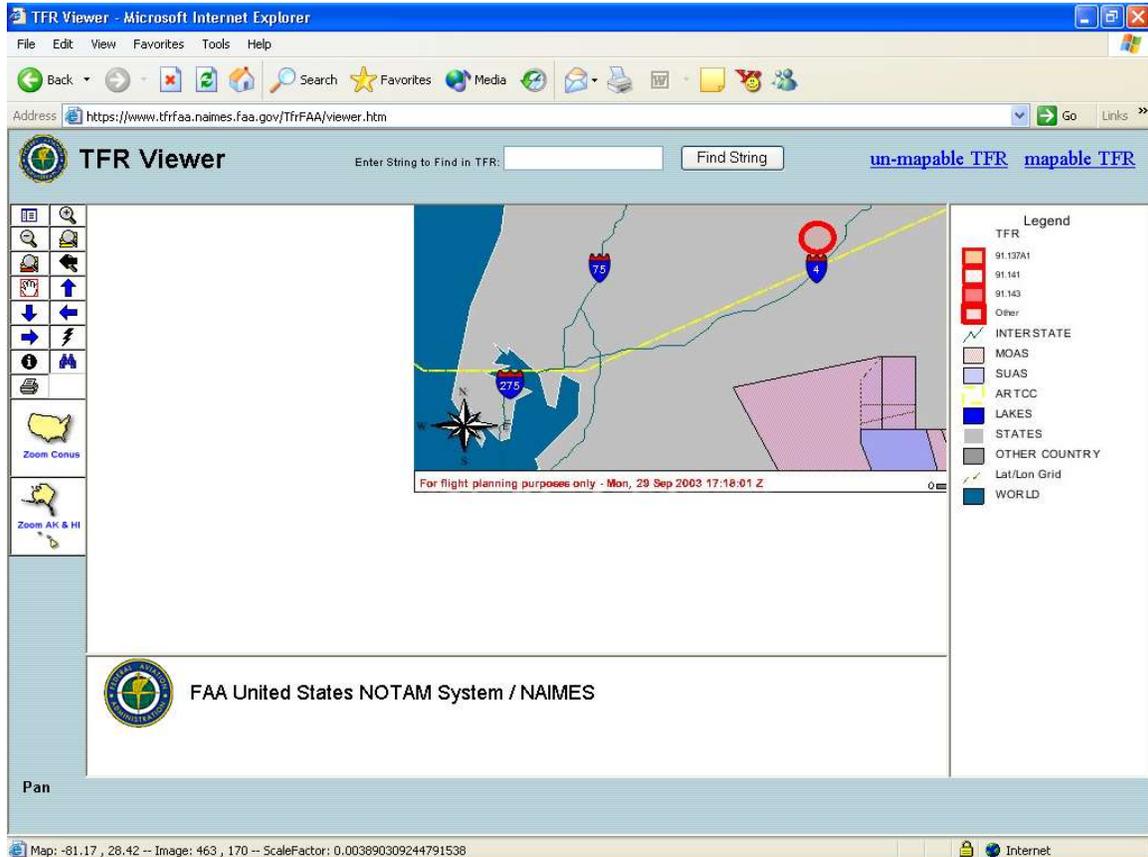
- The panning feature of the TFR Viewer can be used through the Pan – Drag  Pan North , Pan South , Pan West , or Pan East  control buttons. The Pan-Drag feature allows you to selectively move the display by selecting the  button and then, using the mouse, move the map in what ever direction you desire.
- From the elevation that you are displaying the display will be moved one full panel in which ever direction you select using the     ‘arrow’ keys.

Figure 1.8.1 – Pan-Drag Feature



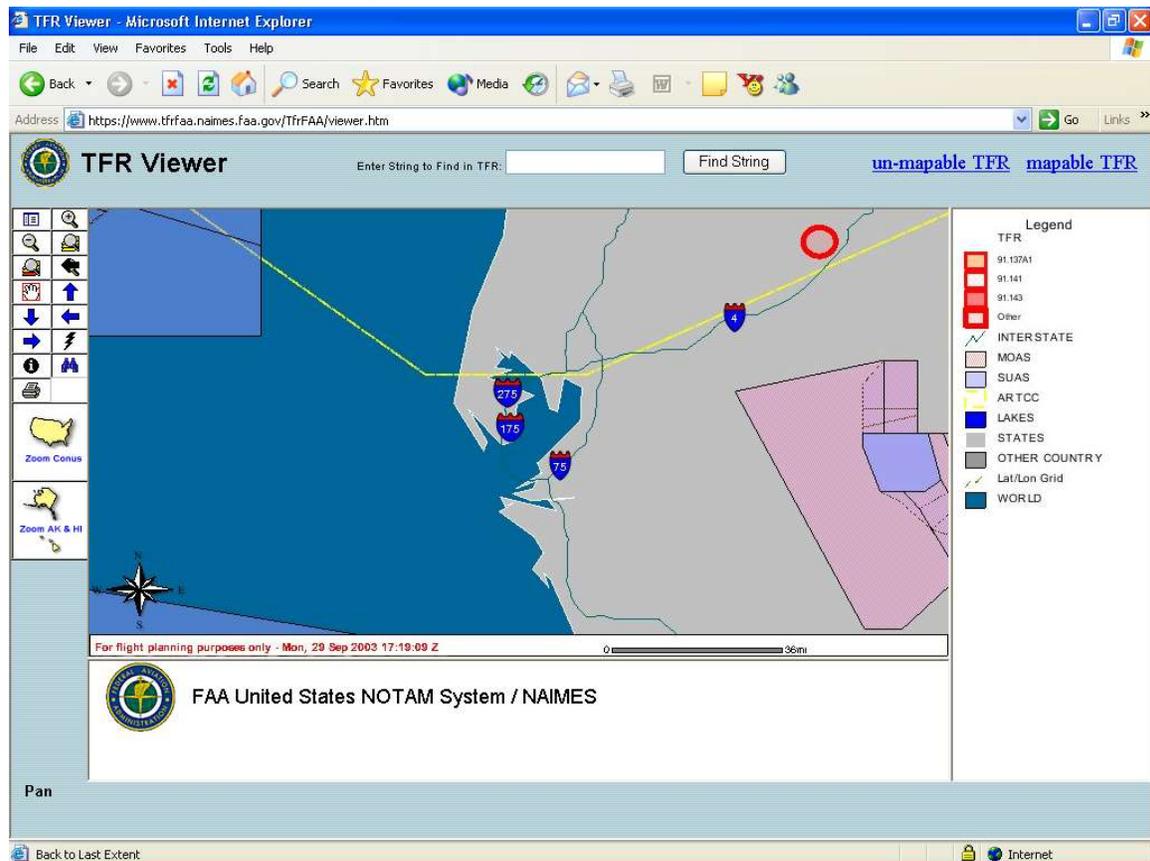
- To use the Pan-Drag Feature from the display that you are currently viewing select the Pan-Drag button  (it will be highlighted in red once selected)

Figure 1.8.2 - Pan-Drag Feature Use



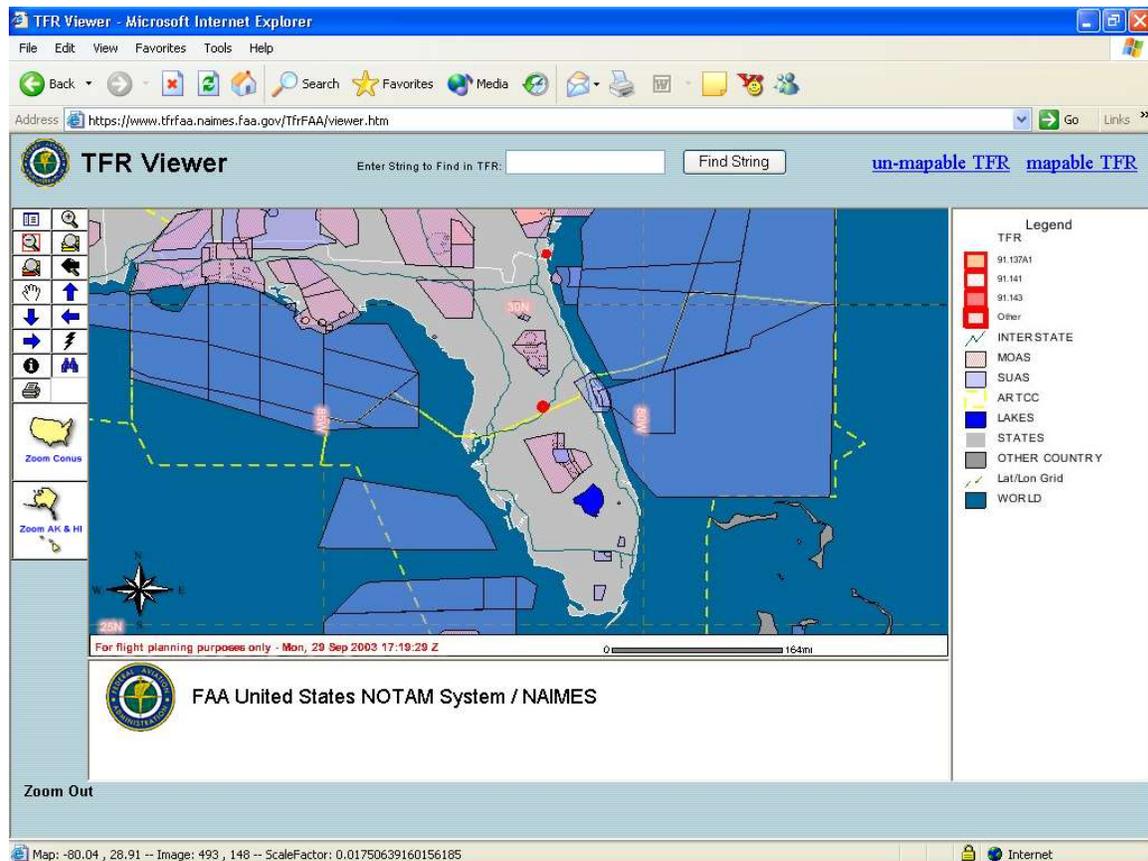
- Using your cursor drag the map in any direction you wish while holding the left mouse button down (in this example the map is dragged to the right approximately 1/3 of the width of the screen)

Figure 1.8.3 - Pan-Drag Feature Result



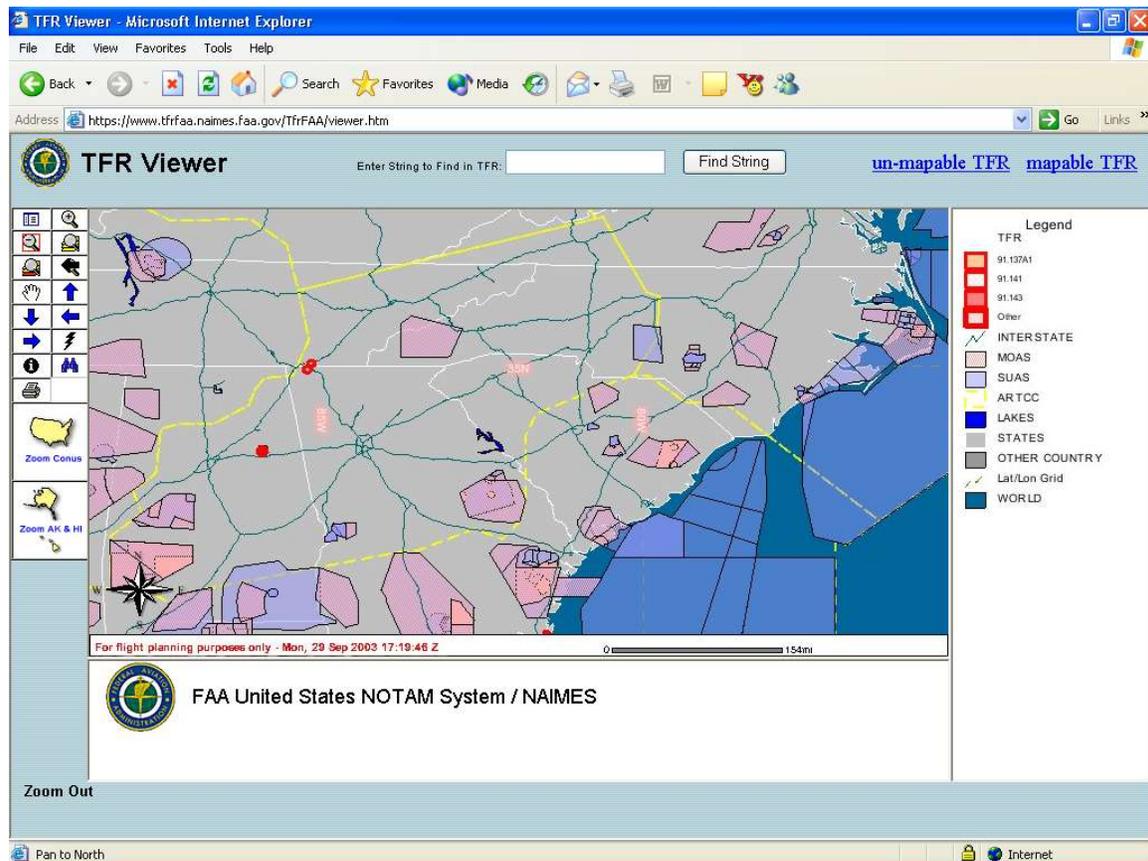
- When the left mouse button is release the map is repositioned and re-drawn based on the user's directional movement.

Figure 1.8.4 - Pan North Feature



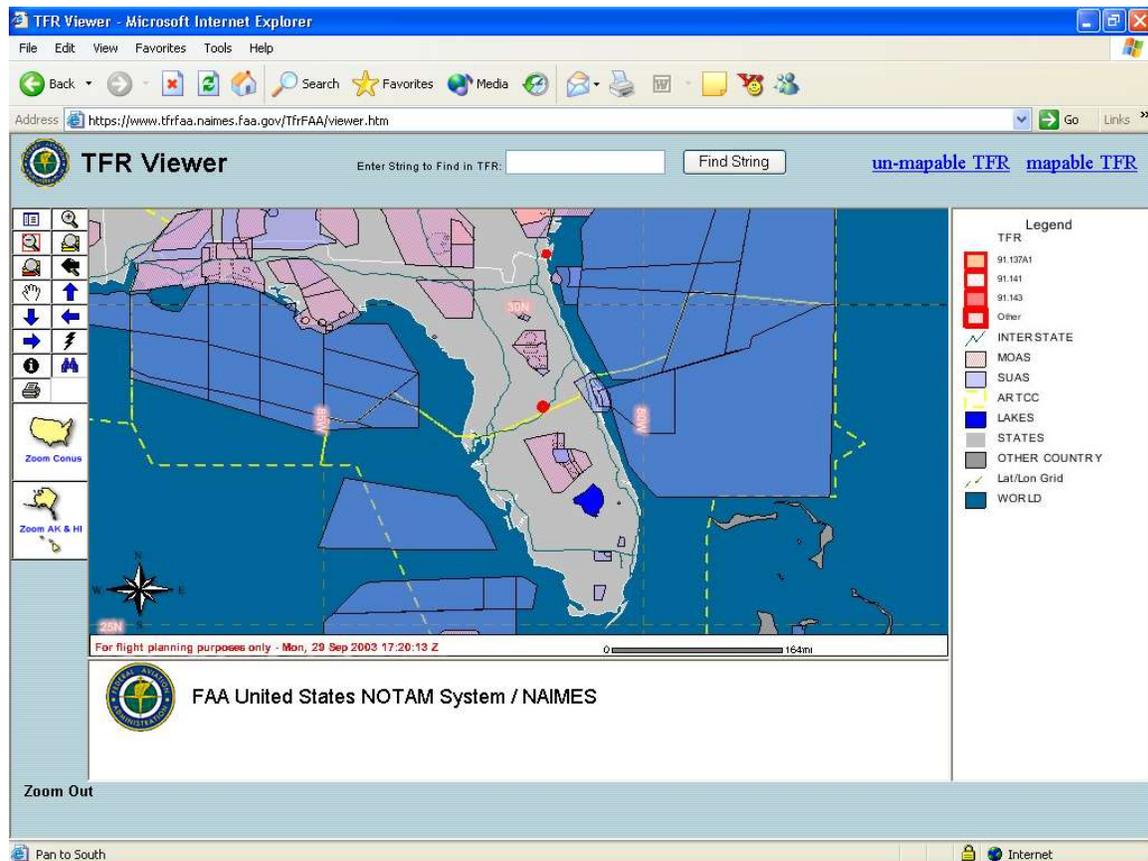
- From any display to re-position the display one panel in the northern direction click the Pan-North button  one time.
- Figure 1.8.5 - Pan North Feature (continued) below, shows the results of the action.

Figure 1.8.5 - Pan North Feature (continued)



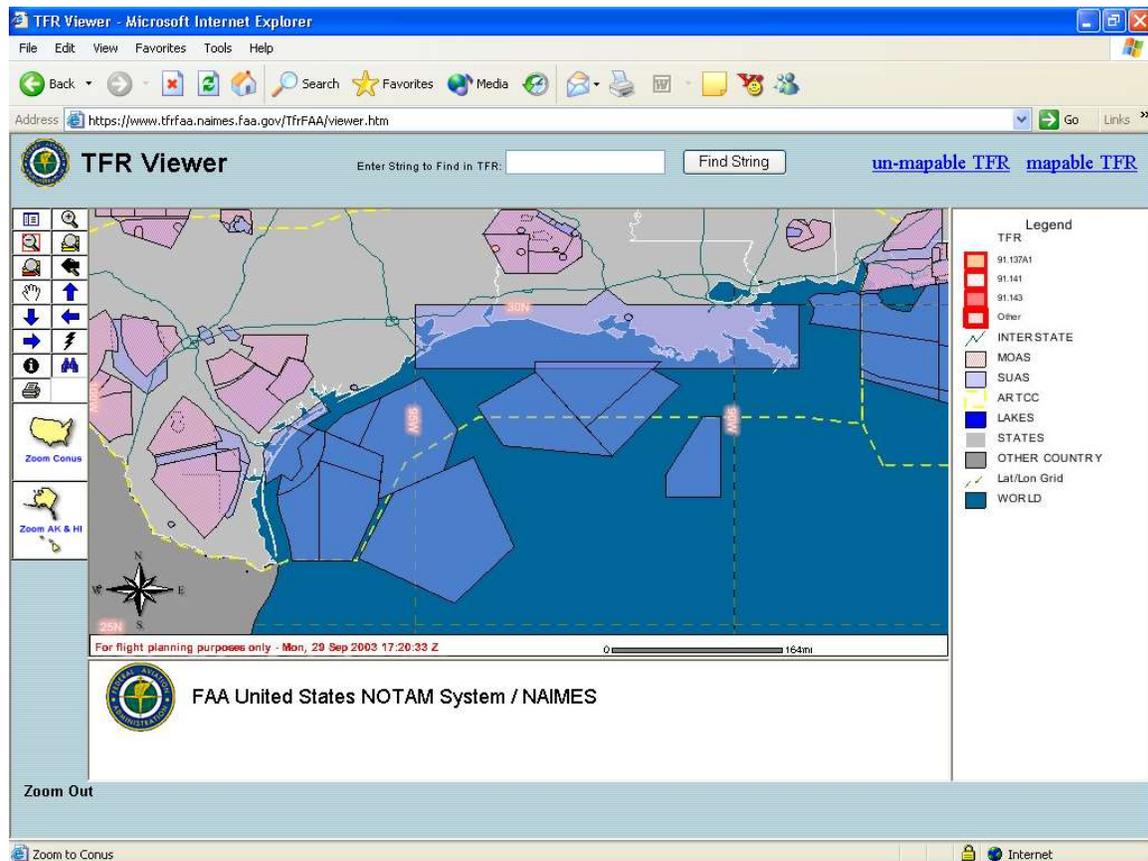
- From any display to re-position the display one panel in the southern direction click the Pan-South button  one time.
- Figure 1.8.6 - Pan South Feature below, shows the results of the action.

Figure 1.8.6 - Pan South Feature



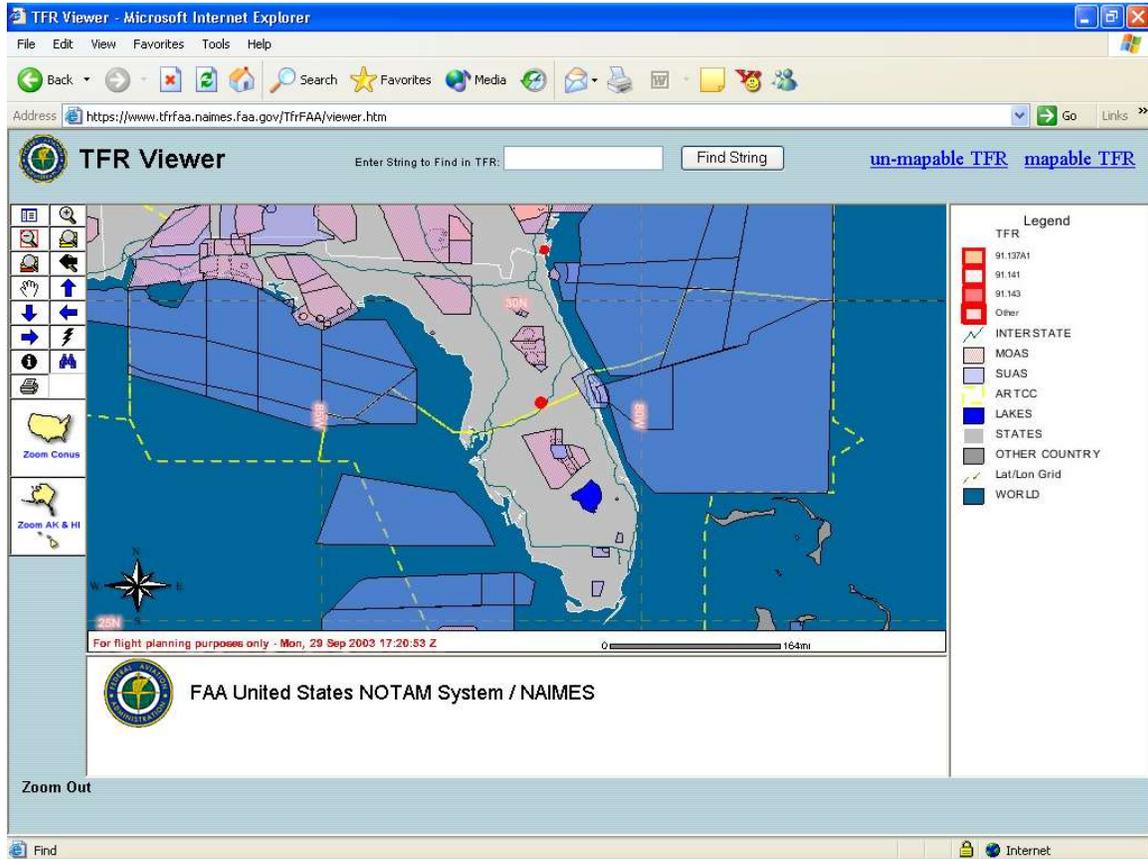
- From any display to re-position the display one panel in the western direction click the Pan-West button  one time.
- Figure 1.8.7 - Pan West Feature below, shows the results of the action.

Figure 1.8.7 - Pan West Feature



- From any display to re-position the display one panel in the eastern direction click the Pan-East button  one time.
- Figure 1.8.8 - Pan East Feature below, shows the results of the action.

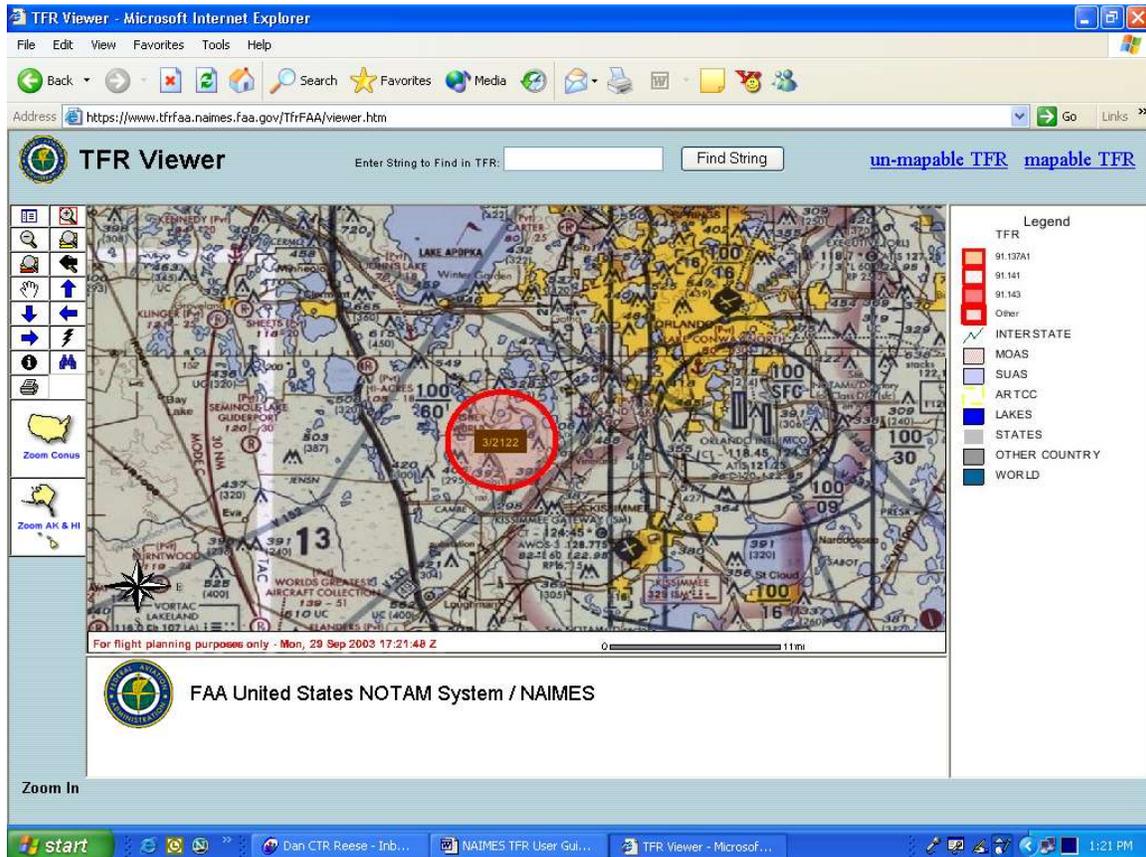
Figure 1.8.8 - Pan East Feature



9.9 NAIMES Graphical TFR Display HyperLink Feature

The Graphical TFR HyperLink feature is used to display TFR NOTAM data in a new web page window.

Figure 1.9.1 – HyperLink/View Info Display Feature



- To display the text of the TFR NOTAM users can select the  button, which will be highlighted in red, and click directly on the displayed TFR's number. When the number is clicked a new window will open with the actual text of the NOTAM.
- See Figure 1.9.2 - Graphical TFR NOTAM Text Display.

Figure 1.9.2 - Graphical TFR NOTAM Text Display

The screenshot shows a web browser window titled "TFR Viewer - Microsoft Internet Explorer". The address bar shows the URL: <https://www.tfrfaa.naimes.faa.gov/TfrFAA/viewer.htm>. The browser's address bar also shows a secondary URL: <https://www.tfrfaa.naimes.faa.gov/TfrFAA/tfrInfo.jsp?FDC=3/2...>

The main content area is titled "TFR Viewer" and features a search bar with the placeholder text "Enter String to Find in TFR:". Below the search bar is a map of Florida. A red circle highlights a specific NOTAM (3/2122) on the map, located near Orlando. The NOTAM text is displayed in a text box on the right side of the page.

3/2122 - FL. FLIGHT RESTRICTIONS ORLANDO, FL EFFECTIVE 0303182000 UTC (MARCH 18 AT 1500 LOCAL) UNTIL FURTHER NOTICE. PURSUANT TO RESTRICTIONS DETAILED IN SECTION 352 OF PUBLIC LAW 108-7, AND 14 CFR SECTION 99.7, SPECIAL SECURITY INSTRUCTIONS. AIRCRAFT FLIGHT OPERATIONS ARE PROHIBITED AT AND BELOW 3,000 FEET AGL, WITHIN A 3 NAUTICAL MILE RADIUS OF THE DISNEY WORLD THEME PARK (282445N/0813420W OR THE ORLANDO /ORL/ VORTAC 243 DEGREE RADIAL AT 15 NAUTICAL MILES). THIS RESTRICTION DOES NOT APPLY TO: (A) THOSE AIRCRAFT AUTHORIZED BY ATC FOR OPERATIONAL OR SAFETY PURPOSES, INCLUDING AIRCRAFT ARRIVING OR DEPARTING FROM AN AIRPORT USING STANDARD AIR TRAFFIC PROCEDURES, (B) DEPARTMENT OF DEFENSE, LAW ENFORCEMENT, OR AEROMEDICAL FLIGHT OPERATIONS THAT ARE IN CONTACT WITH ATC. THOSE WHO MEET ANY OF THE FOLLOWING CRITERIA MAY APPLY FOR A WAIVER TO THESE RESTRICTIONS: (A) FOR OPERATIONAL PURPOSES OF THE VENUE INCLUDING THE TRANSPORTATION OF EQUIPMENT OR OFFICIALS OF THE GOVERNING BODY; (B) FOR SAFETY AND SECURITY PURPOSES OF THE VENUE. INFORMATION REGARDING WAIVER APPLICATIONS CAN BE OBTAINED FROM THE FAA WEBSITE AT [HTTP://WWW.FAA.GOV/ATS/ATA/WAIVER](http://www.faa.gov/ats/ata/waiver), OR BY CALLING 571-227-1322. WIE UNTIL UFN

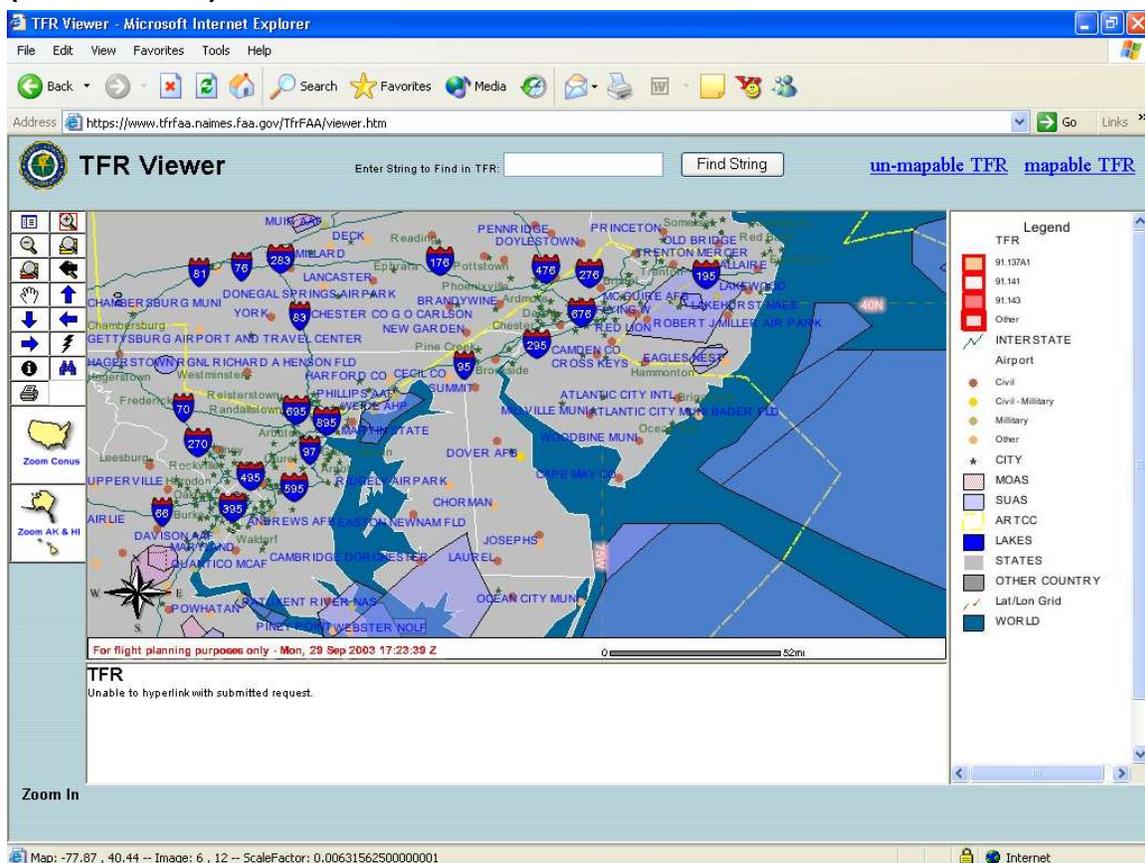
This site is informational in nature. Current NOTAMs are available from Flight Service Stations at 1-800-WX-BRIEF. Notices, restrictions, and advisories may change at any time and without notice. Do not attempt any operation in the National Airspace System without first obtaining and understanding a thorough pre-flight briefing.

At the bottom of the browser window, the status bar shows: "Map: -81.17, 28.25 -- Image: 716, 344 -- ScaleFactor: 0.0011709960937499874" and "Internet".

9.10 NAIMES Graphical TFR Display Identify (Information) Feature

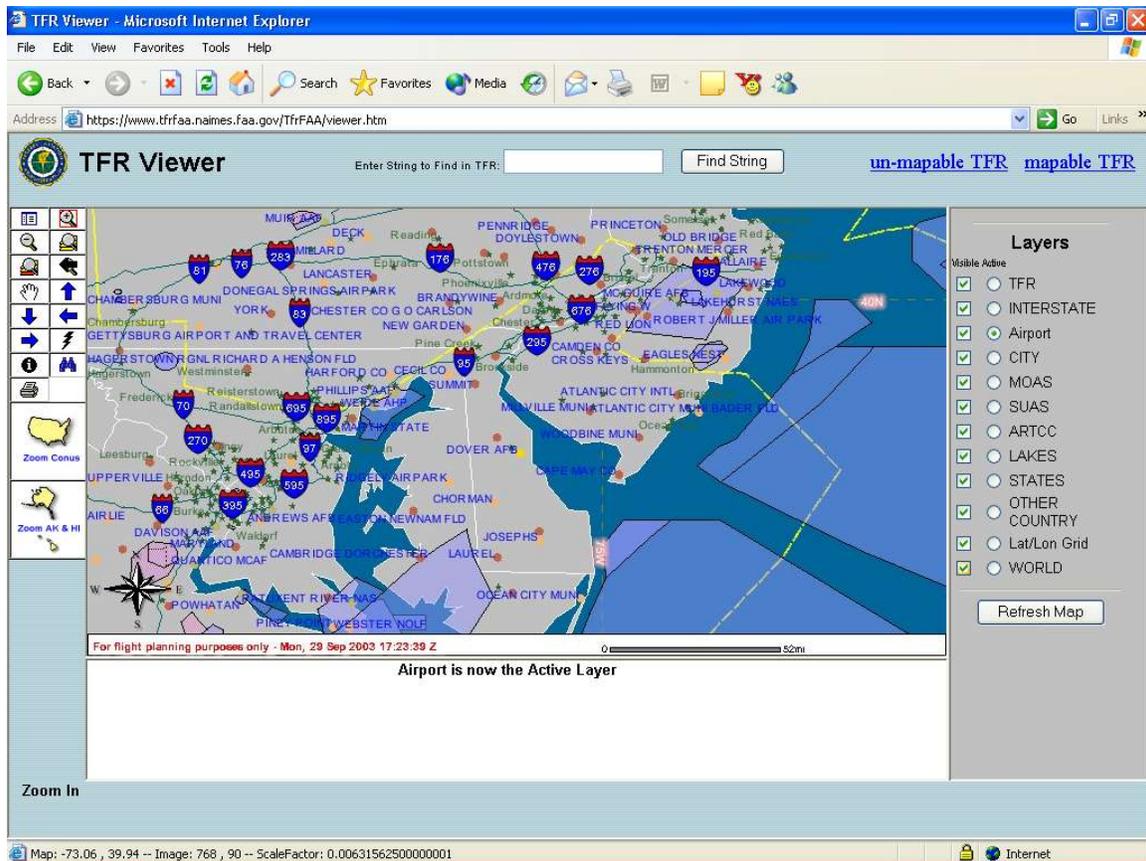
- The NAIMES Graphical TFR Display Identify (Information) Feature allows users to display information of items contained in the active Layer (see Section 1.2 - Switch Layer and Table Display Feature).
- By activating a specific Layer in the menu and then depressing the Identify  button information can be displayed for any of displayed features on the map. This feature is informational in nature and should be used as a general reference only.
- Users should always refer to DoD authorized sources of information for specific airport information.

Figure 1.10.1 - Using the NAIMES Graphical TFR Display Identify (Information) Feature



- In this example the State of Delaware is being used. To display general information of airports the users can use the Switch Layer and Table button  to activate the Layer menu.
- Once the menu is displayed the 'Active Layer' column can be selected for Airports, as shown in Figure 1.10.2 - Activating a New Layer, below

Figure 1.10.2 - Activating a New Layer



- The display will indicate the Active Layer (in this case Airport) which is active.
- The user can then click on the Identify  button, which will highlight in red.
- Positioning the mouse pointer on a feature of the map will display the information in this site (For this example Dover AFB will be selected)
- Figure 1.10.3 - NAIMES Graphical TFR Airport Information Display below shows the results of this action

Figure 1.10.3 - NAIMES Graphical TFR Airport Information Display

TFR Viewer - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address: https://www.tfrfaa.naimes.faa.gov/TfrFAA/viewer.htm

TFR Viewer Enter String to Find in TFR: Find String [un-mapable TFR](#) [mapable TFR](#)

Layers

- TFR
- INTERSTATE
- Airport
- CITY
- MOAS
- SUAS
- ARTCC
- LAKES
- STATES
- OTHER
- COUNTRY
- Lat/Lon Grid
- WORLD

Refresh Map

For flight planning purposes only - Mon, 29 Sep 2003 17:23:39 Z

Rec	SDE.ARPT.NAME	SDE.ARPT.ARPT_IDENT	SDE.ARPT.STATE_PROV	SDE.ARPT.ICAO	SDE.ARPT.HOST_ID	SDE.ARPT.LOC_HDATUM	SDE.ARPT.WGS_D
1	DOVER AFB	US12861	10	KDOV	DOV	WGE	WGE

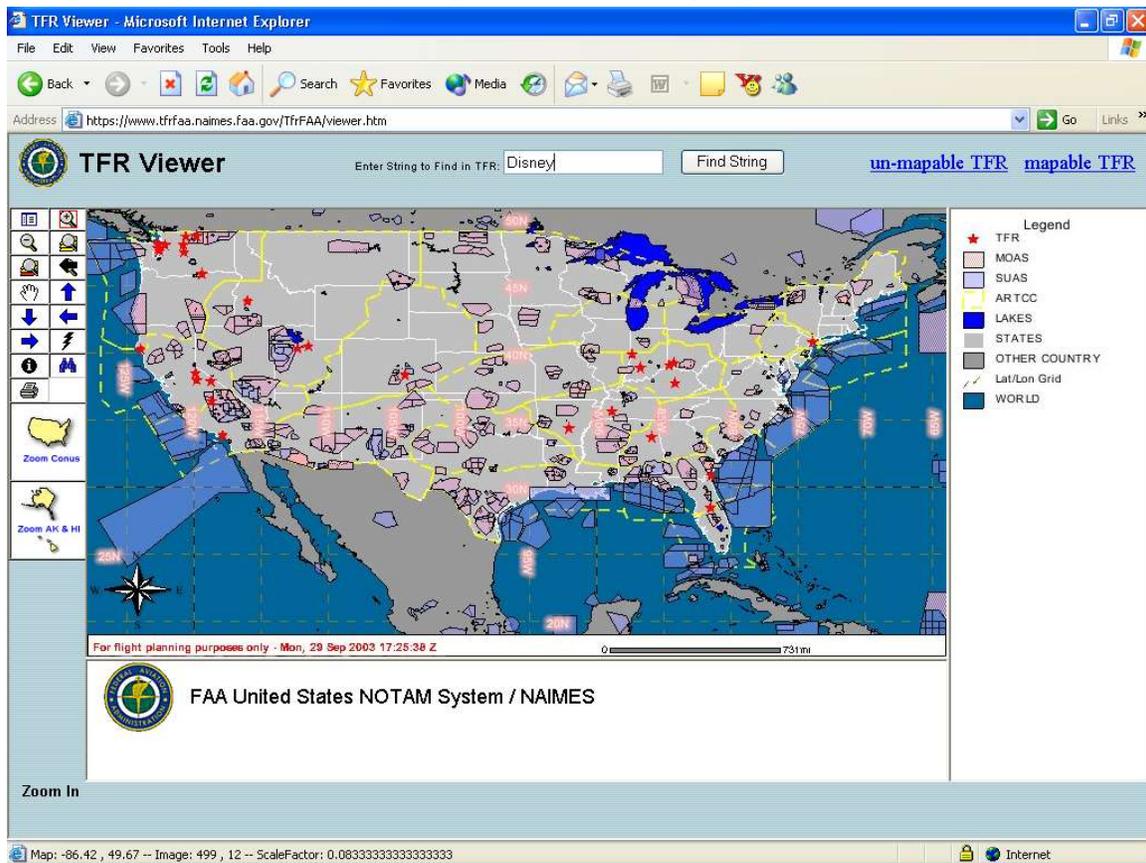
Identify

Map: -75.45 , 39.03 -- Image: 390 , 234 -- ScaleFactor: 0.0063156250000001

9.11 NAIMES Graphical TFR Display Find Feature

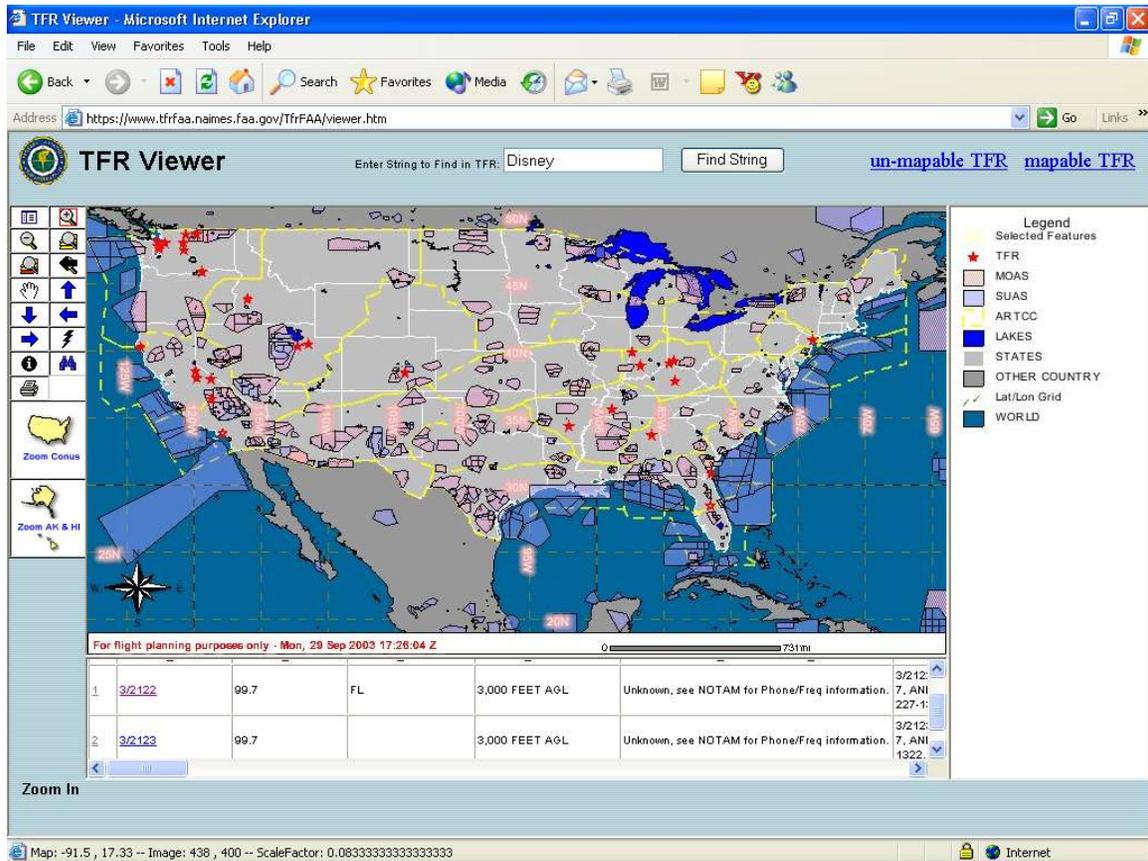
The NAIMES Graphical TFR Display Find Feature allows the user to search mapped TFRs for specific text in order to find items of interest. To use the Find feature the user clicks on the 'Find'  button to activate this feature. Figure 1.11.1 - NAIMES Graphical TFR Display Find Feature, below, is an example of this display.

Figure 1.11.1 - NAIMES Graphical TFR Display Find Feature



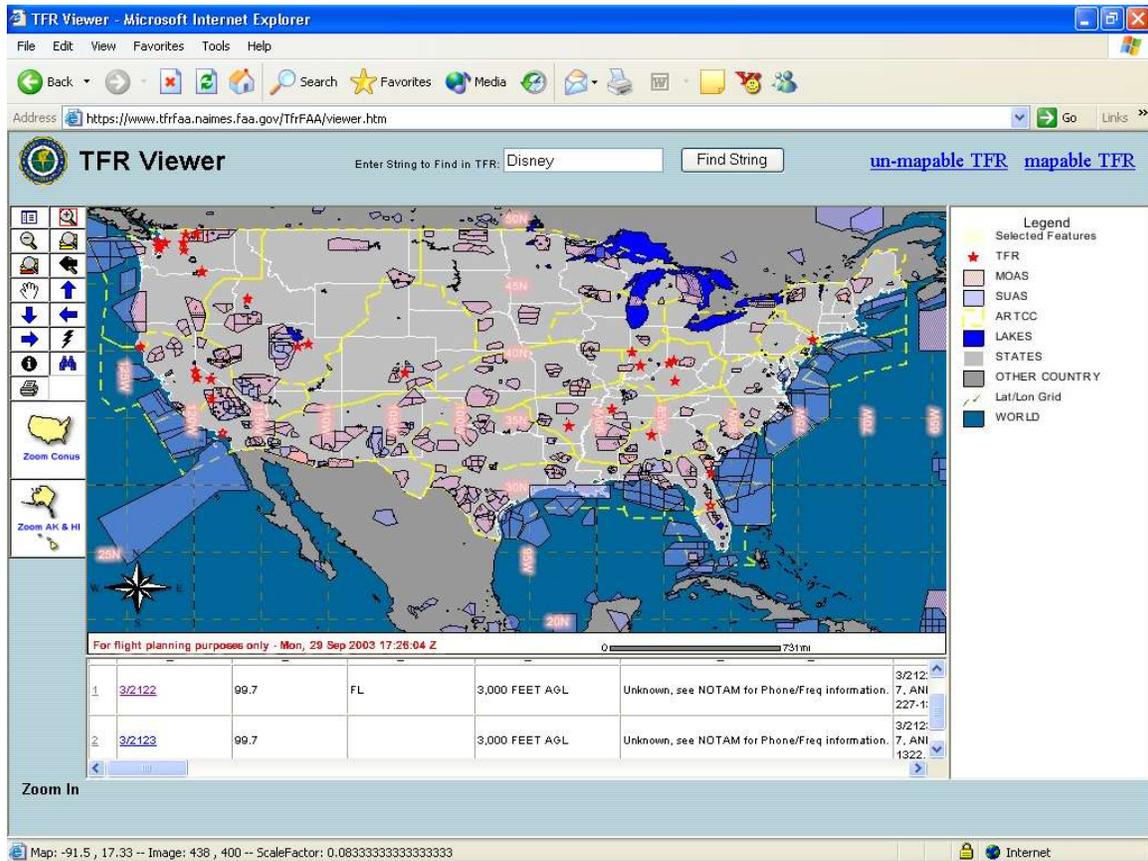
- In the box labeled 'Enter String to Find in TFR' the user places non-case sensitive text to be searched for.
- In this example the word 'Disney' is the search argument.
- The user then clicks on the 'Find String' button.
- Figure 1.11.2 - Graphical TFR Display Find Results below contains the results of this find.

Figure 1.11.2 - Graphical TFR Display Find Results



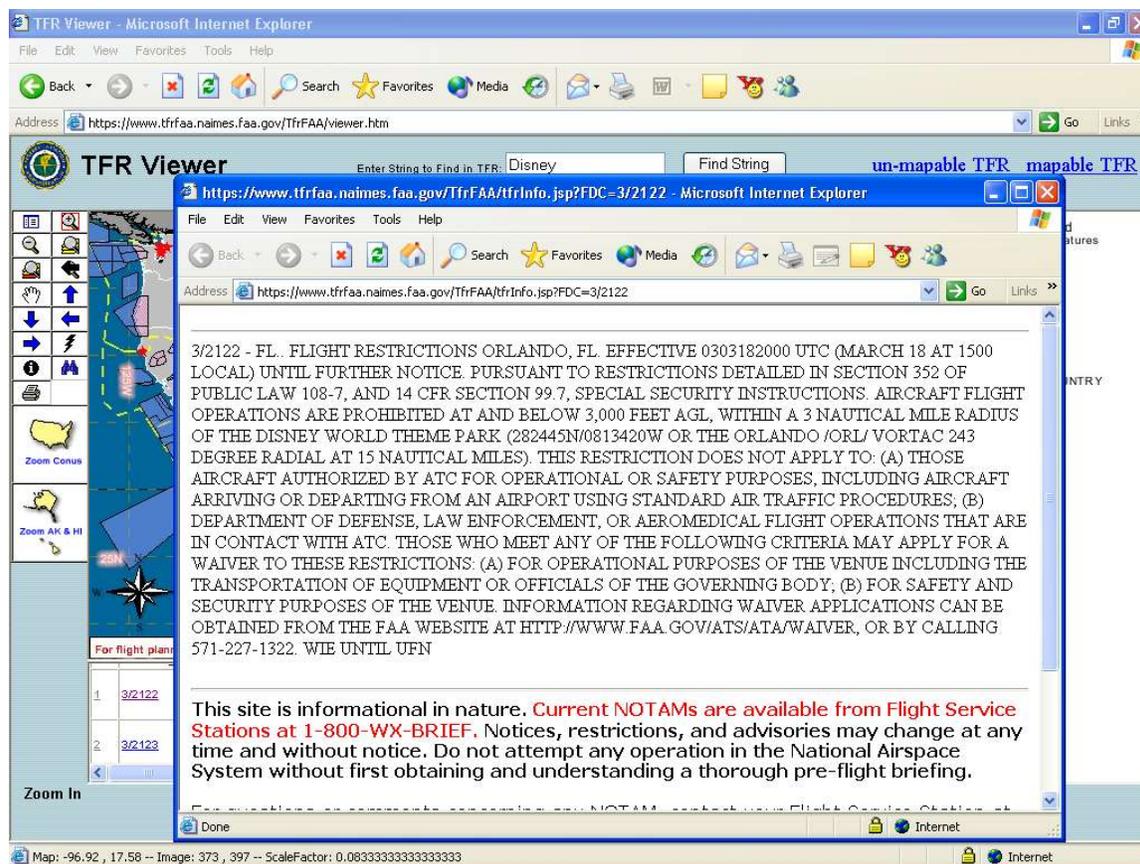
- The result of this find are 2 TFR records. To Zoom-In and display the graphic TFR the user must click on the record number (far left column labeled 'Rec').
- To display the TFR text the user must click on the TFR number (column directly to the right of the 'Rec' column labeled 'SDE TFR FDC').
- In the following display Figure 1.11.3 - NAIMES Graphic TFR Display Find Results (continued) record number 1 has been selected.

Figure 1.11.3 - NAIMES Graphic TFR Display Find Results (continued)



- The record selection has automatically been located and a Zoom-In function is automatically performed.
- The user can now select the TFR number for a display of the NOTAM text
- Figure 1.11.4 - NAIMES Graphical TFR NOTAM Text Display represents the results.

Figure 1.11.4 - NAIMES Graphical TFR NOTAM Text Display



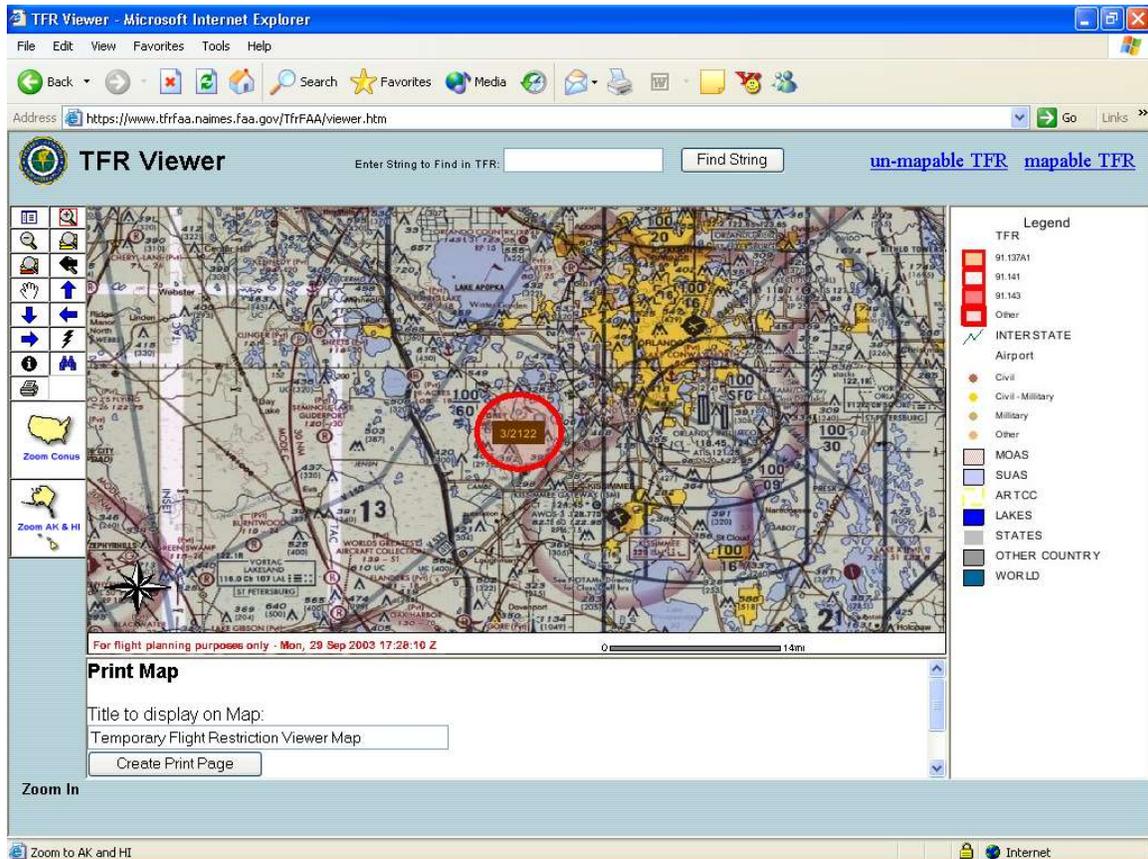
- This display is presented in a new window.

9.12 NAIMES Graphical TFR Print Feature

The NAIMES Graphical TFR Print Feature is the facility to allow printing of any of the graphics that can be displayed using this service. Based on the display on the user's terminal print images can be sent to any network or locally addressable printer.

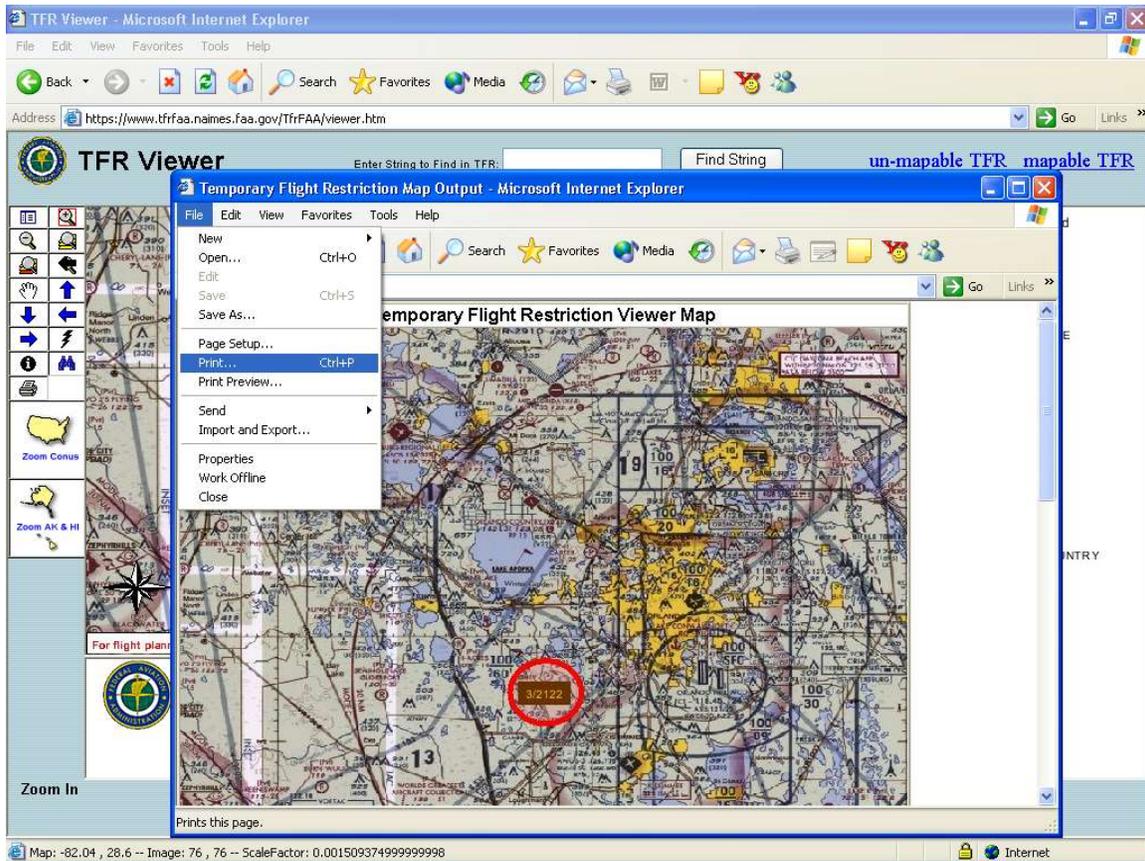
To use this feature the user clicks on the Print  button on the menu bar. This opens a new browser window as shown in Figure 1.12.1 - NAIMES Graphical TFR Print Feature, below.

Figure 1.12.1 - NAIMES Graphical TFR Print Feature



- Clicking on the Create Print Page button, and optionally placing a map title in the box provided opens a separate browser window as shown in Figure 1.12.2 - NAIMES Graphic TFR Display Print Window below.

Figure 1.12.2 - NAIMES Graphic TFR Display Print Window



- To print this page users should select (from the browser tool bar) 'File', then 'Print'.