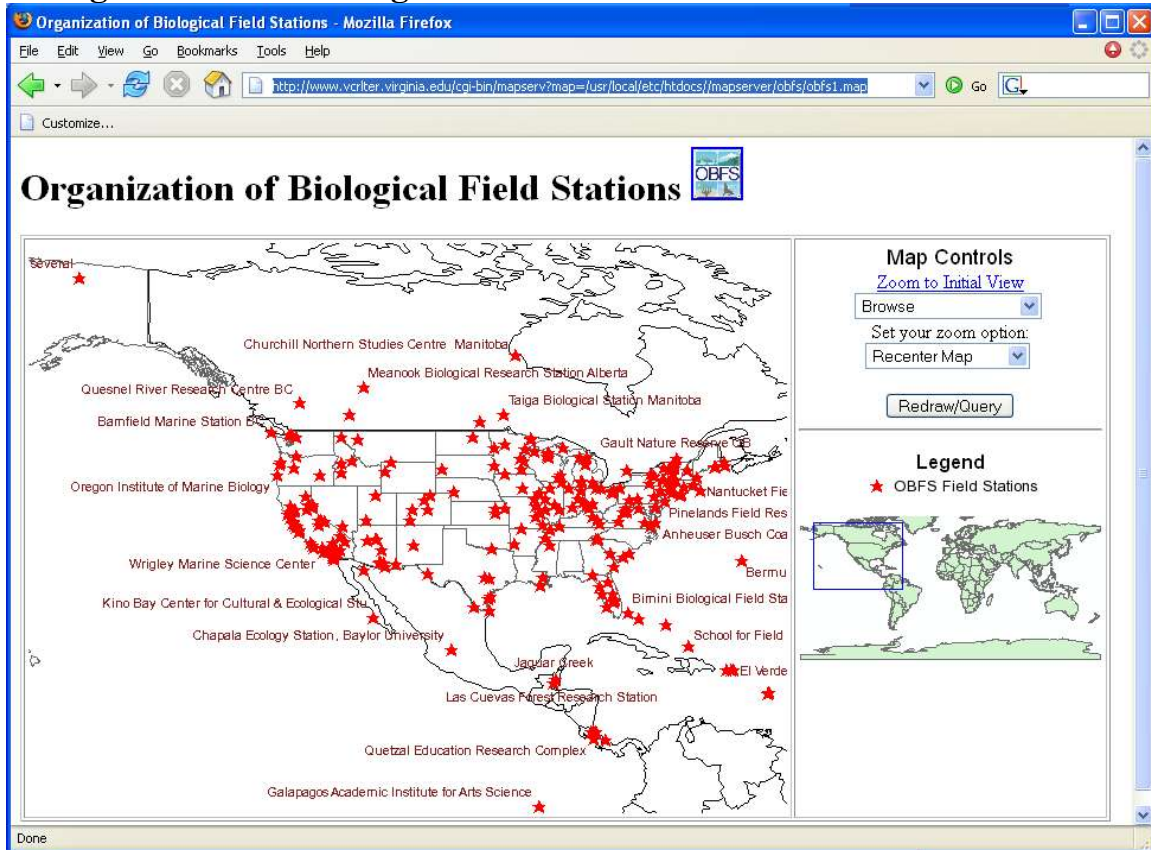


Sample Mapserver Application

- Organization of Biological Field Stations



This example contains all the files (except the shapefiles and image files) needed to produce the a queriable map of OBFS sites that includes labels and a locator map. You can view the actual web map at:

<http://www.vcrlier.virginia.edu/cgi-bin/mapserv?map=/usr/local/etc/htdocs//mapserver/obfs/obfs1.map>

obfs.1.map-Mapserver Map file

This file contains the specifications for the map, including the labels, query capabilities and location map. Sections related to labels, query and reference map are highlighted in boldface type.

```
NAME OBFS # set the map name to anything you like
```

```
# Set the extent to match YOUR shapefile(s)  
# coordinates are Westernmost Southernmost Easternmost Northernmost  
EXTENT -45. 0 -170. 73.  
# here is an example for Lat/Lon.  
#EXTENT -97.5 41.619778 -82.122902 49.38562
```

```
# can leave the font-set alone  
FONTSET "/usr/local/etc/htdocs/mapserver/fonts/fonts.list"  
SYMBOLSET "/usr/local/etc/htdocs/mapserver/symbols/symbols35.sym"
```

```
# set the size of the Image to be displayed
```

```

SIZE 640 480

# Set the SHAPEPATH to point where you have stored your shapefiles
# substitute your user ID for YOUR_ID below.
# SHAPEPATH "/home/evsc468/public_html/YOUR_ID/"
# or point to shapefiles in some other directory
SHAPEPATH "/usr/local/etc/htdocs/mapserver/obfs/shapefiles/"

# Set your template file to the name of YOUR template file
# you can leave the image path and image URL alone
WEB
  TEMPLATE "/usr/local/etc/htdocs/mapserver/obfs/obfs1.html"
  IMAGEPATH "/usr/local/etc/htdocs/tmp/"
  IMAGEURL "/tmp/"
END

LEGEND
  STATUS ON
  LABEL
    TYPE TRUETYPE
    FONT arial
    COLOR 0 0 0
    SIZE 10
    ANTIALIAS TRUE
  END
END

REFERENCE
  IMAGE 'world_browse_map.png'
  SIZE 256 122
  EXTENT 170. -80. -180. 80.
  STATUS ON
  MINBOXSIZE 10
#  MAXBOXSIZE 150
  COLOR -1 -1 -1
  OUTLINECOLOR 0 0 255
  MARKERSIZE 8
  MARKER 'star'
END
# you will need to customize the layer definitions for YOUR layers
# remember that the SHAPEFILES for the LAYERS should be stored in the
# directory pointed to by SHAPEPATH above.

# LAYER DEFINITIONS -----
LAYER
  NAME "worldmap"
  DATA cntry92
  STATUS DEFAULT # Show the layer at all times
  TYPE line # choices for type are POLYGON, LINE and POINT
  CLASS
#   NAME outline # if you leave out the name, the class does NOT show
up in the legend
    COLOR 0 0 0
    OUTLINECOLOR 0 0 0 # use black lines
  END
END

LAYER
  NAME "states"

```

```

DATA states
STATUS DEFAULT # Show the layer at all times
TYPE line # choices for type are POLYGON, LINE and POINT
CLASS
# NAME outline # if you leave out the name, the class does NOT show
up in the legend
  COLOR 100 100 100
  OUTLINECOLOR 100 100 100 # use black lines
END
END

LAYER #
NAME "obfs"
DATA obfs_4_04a
STATUS DEFAULT # show layer, but allow it to be turned off
TYPE POINT # choices for type are POLYGON, LINE and POINT
# Stuff for queries
TOLERANCE 10
HEADER 'obfs_station_head.html'
FOOTER 'obfs_station_foot.html'

LABELITEM "NAME"

class
name "OBFS Field Stations"
Symbol STAR
size 10
color 255 0 0
TEMPLATE 'obfs_station_query.html'

LABEL
  COLOR 132 31 31
  TYPE TRUETYPE
  FONT arial
  SIZE 8
  ANTIALIAS FALSE
  POSITION AUTO
  PARTIALS TRUE
  MINDISTANCE 0
  BUFFER 4
END # end of label
end
END # end of layer object

END # MAP FILE

```

obfs1.html – Mapserver Template File

```

<html>
<head>
  <title>Organization of Biological Field Stations</title>
  <script>
    //functions called from within the mapimage applet that allow us
    //to do box zooms and queries
    function mapplet_apply(name, minx, miny, maxx, maxy, redraw) {
      document.mapserv.imgbox.value = minx + " " + miny + " " + maxx +
" " + maxy;
      document.mapserv.imgxy.value = minx + " " + miny;
    }
  </script>

```

```

        function mapplet_error(message) {
            alert(message);
        }
    </script>
</head>

<h1>
Organization of Biological Field Stations
<a href="http://www.obfs.org">


</a></h1>
<p>

    <form method="GET" action="/cgi-bin/mapserv">

        <input type="hidden" name="map" value="[map]">
        <input type="hidden" name="imgext" value="[mapext]">
            <input type="hidden" name="imgxy" value="290 149.5">
            <input type="hidden" name="savequery" value="true">
        <table border=1 cellpadding=3>

            <tr>
            <td align=center>
                <input type="image" name="img" src="[img]" border="0">
            </td>

            <td valign=top>
            <div align="center"><font size=+1 face=arial,Helvetica>Map
Controls</font></div>
            <center>
            <a href=/cgi-
bin/mapserv?map=/usr/local/etc/htdocs/mapserver/obfs/obfs1.map>Zoom to
Initial View</a><br>
            <select name=mode>

            <option value="browse">Browse</item>
            <option value="nquery">Query Station Names</item>
            </select>

            <!-- Select layers to display/query:<br>
            <select multiple name="layer">
            <option value="mylandcover" [mylandcover_select] > Land Cover</option>
            <option value="myroads" [myroads_select] > Roads</option>
            </select>
            -->
            <br>
            Set your zoom option:<br>
            <select name="zoom" size="1">
            <option value="10" > Zoom in 10 times
            <option value="8" > Zoom in 8 times
            <option value="4" > Zoom in 4 times

            <option value="3" > Zoom in 3 times
            <option value="2" > Zoom in 2 times
            <option value="1" selected > Recenter Map
            <option value="-2" > Zoom out 2 times

```

```

<option value="-3" > Zoom out 3 times
<option value="-4" > Zoom out 4 times
<option value="-8" > Zoom out 8 times
<option value="-10"> Zoom out 10 times
</select>

<br>
<br>
<input type="submit" name="submit" value="Redraw/Query">
</center>

        <hr>
        <p align="center">
            <font face=arial,Helvetica><b>Legend</b></font><br>
            
            <p></p>

        </td>

    </tr></table>
</form>

</body>
</html>

```

obfs_station_head.html – Template file for start of queries

This file contains the HTML commands for the top of the page and the start of the table

```

<h1>Organization of Biological Field Stations</h1>

<h2>Query Result</h2> <table border=2>
<th>NAME</th><th>Country or State</th>

```

obfs_station_query.html – Template file for queries

This contains the HTML commands for each line in the output table

```

<tr><td>[NAME] </td><td>[OBFS_FIELD]</td></tr>

```

obfs_station_foot.html – Template file for end of queries

This contains the HTML commands to end the output table and finish the page.

```

</table><br>Hit the BACK button to return to the map.

```

Additional files needed (but not displayed here) are:

- world_browse_map.png – an image of the entire world whose dimensions and location correspond to the REFERENCE section in obfs1.map.
- OBFS_Logo_BlueW.jpg – a picture of the OBFS logo for display at the top of the map.
- Shapefiles for countries, states and OBFS locations