WAAS Web Application Portal

UDREi Daily Graphs

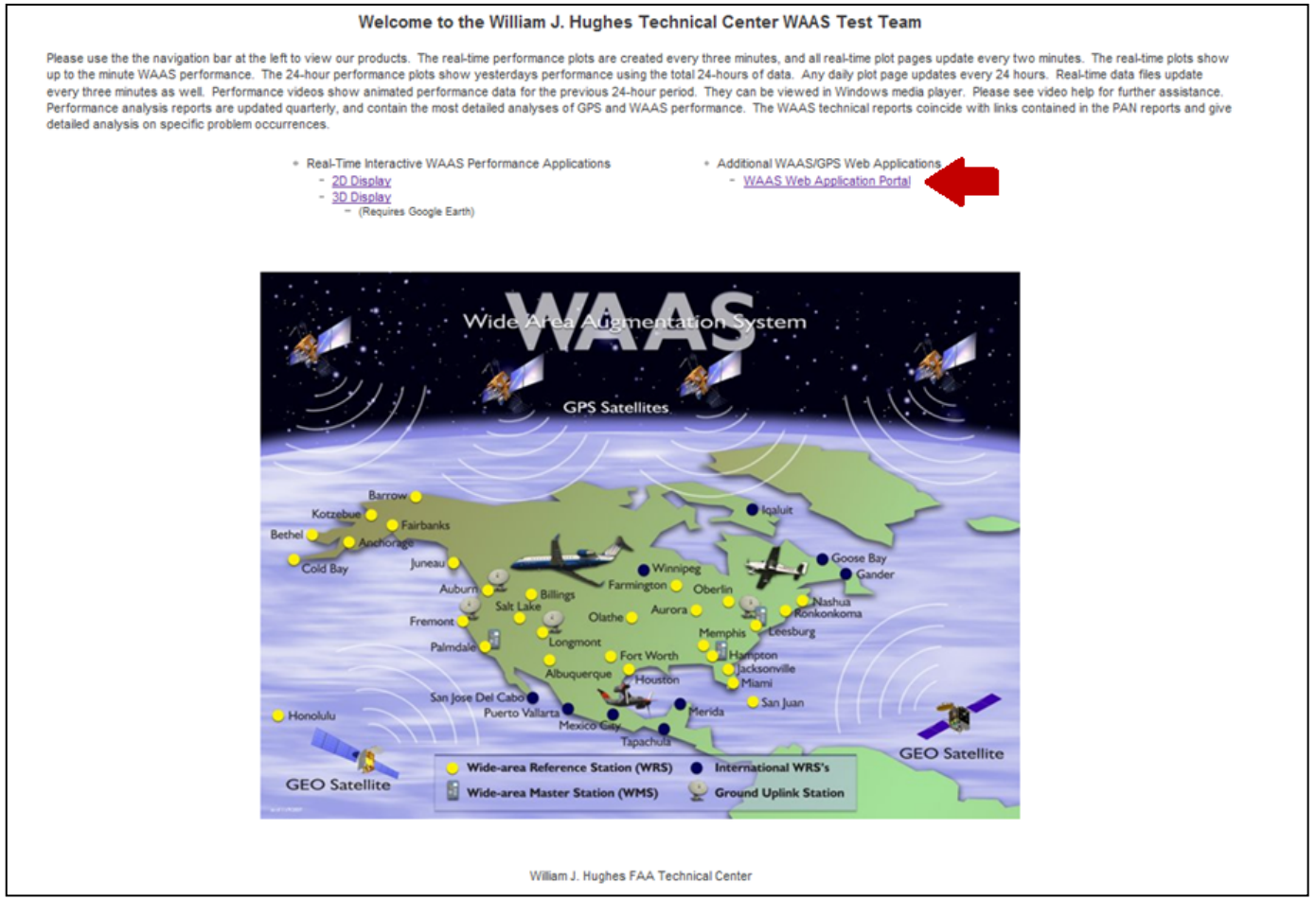
Contents

Introduction

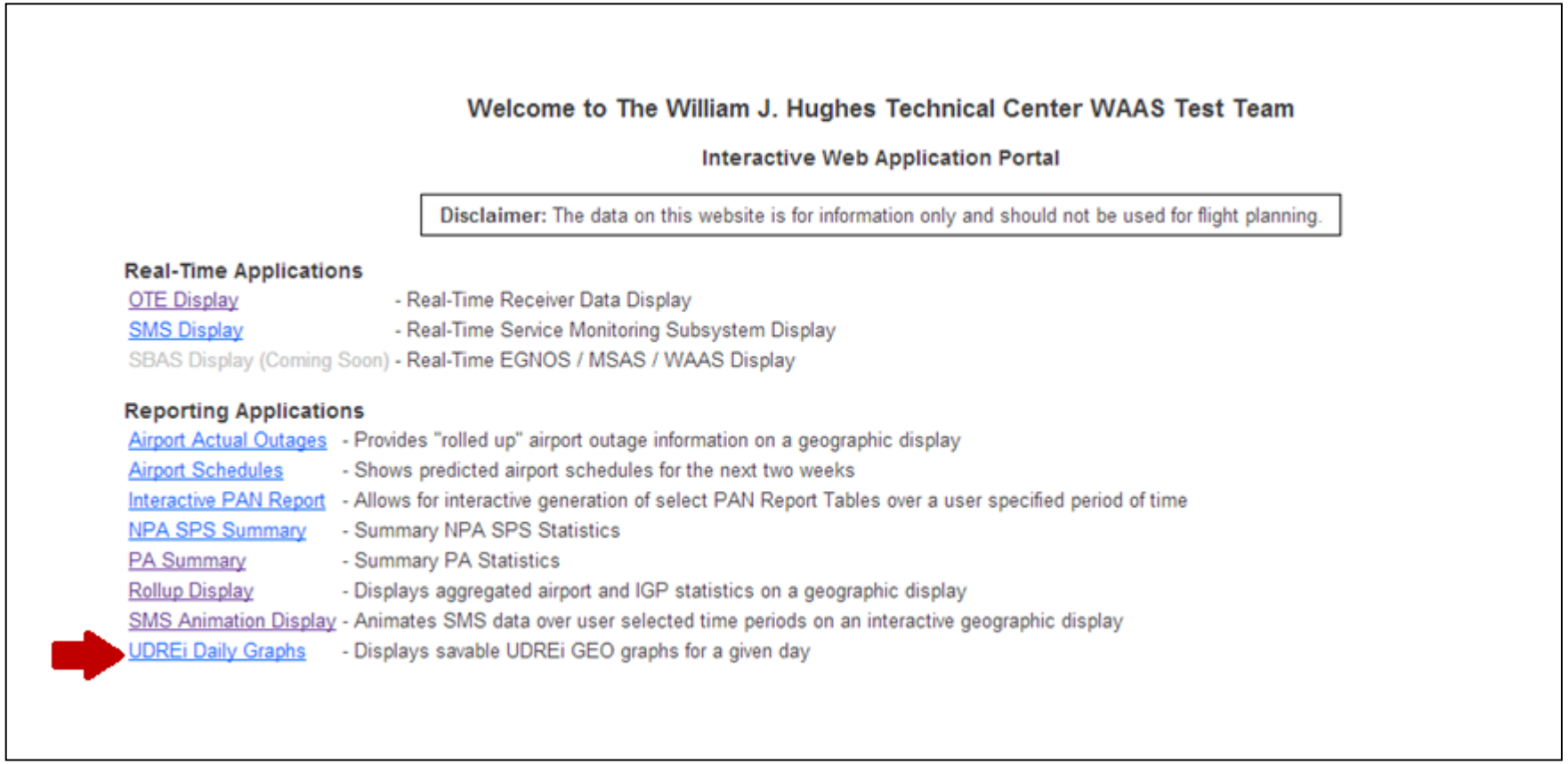
As part of the William J. Hughes Technical Center WAAS Test Team website (www.nstb.tc.faa.gov), the WAAS Web Application Portal allows you to view UDREi Daily Graphs.

We recommend using either Google Chrome or Firefox web browsers.

The following information shows you how to navigate the website. First, click on the "WAAS Web Application Portal" link (See red arrow below).



Once you click the link, you come to the screen below. To access the graphs, click on “UDREi Daily Graphs” (See red arrow below).



Entering A Date

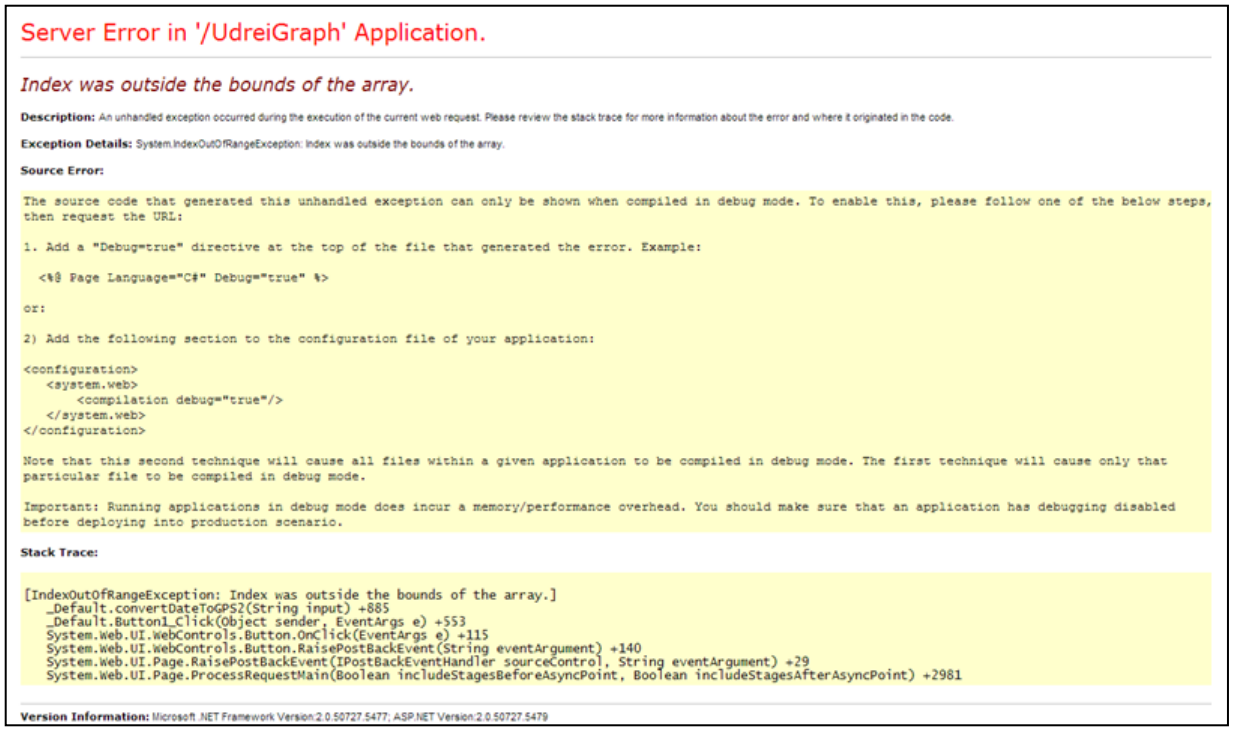
There are 2 methods by which you may enter a date you would like to view:

1. You may click in the box next to “Enter Date,” to open a calendar and choose the date (See red arrow below).

2. Or you may type it in manually.

    a. Please be sure you follow the format of DD-MON-YEAR. For example: 05-May-2014

    b. If you do not, you may receive an error message similar to the one below:



Server Error in '/UdreiGraph' Application.

Index was outside the bounds of the array.

Description: An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code.

Exception Details: System.IndexOutOfRangeException: Index was outside the bounds of the array.

Source Error:

```
The source code that generated this unhandled exception can only be shown when compiled in debug mode. To enable this, please follow one of the below steps,
then request the URL:

1. Add a "Debug=true" directive at the top of the file that generated the error. Example:

  <%@ Page Language="C#" Debug="true" %>

or:

2) Add the following section to the configuration file of your application:

<configuration>
   <system.web>
       <compilation debug="true"/>
   </system.web>
</configuration>

Note that this second technique will cause all files within a given application to be compiled in debug mode. The first technique will cause only that
particular file to be compiled in debug mode.

Important: Running applications in debug mode does incur a memory/performance overhead. You should make sure that an application has debugging disabled
before deploying into production scenario.
```

Stack Trace:

```
[IndexOutOfRangeException: Index was outside the bounds of the array.]
   _Default.convertDateToGPS2(String input) +885
   _Default.Button1_Click(Object sender, EventArgs e) +553
   System.Web.UI.WebControls.Button.OnClick(EventArgs e) +115
   System.Web.UI.WebControls.Button.RaisePostBackEvent(String eventArgument) +140
   System.Web.UI.Page.RaisePostBackEvent(IPostBackEventHandler sourceControl, String eventArgument) +29
   System.Web.UI.Page.ProcessRequestMain(Boolean includeStagesBeforeAsyncPoint, Boolean includeStagesAfterAsyncPoint) +2981
```

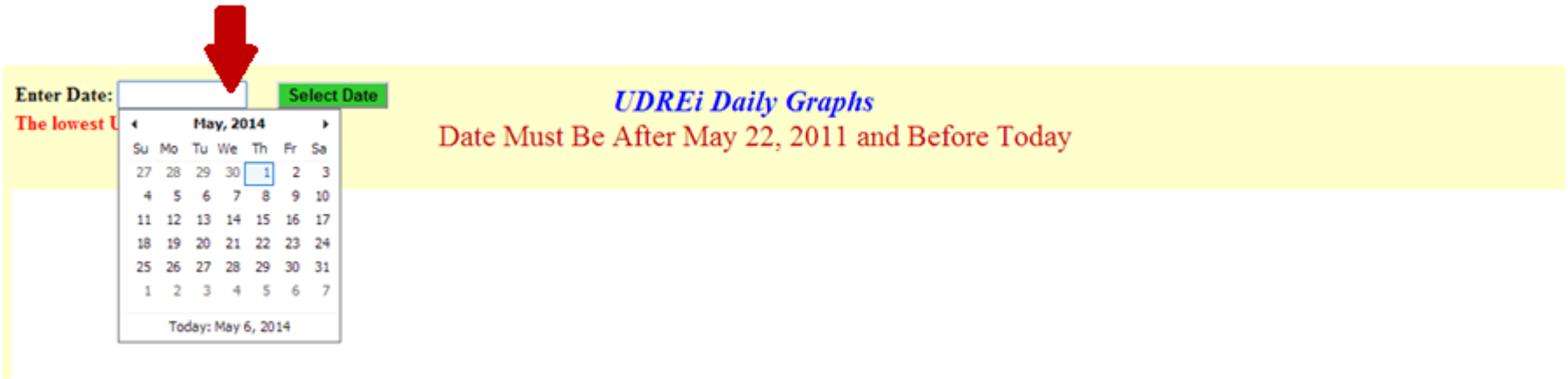
Version Information: Microsoft .NET Framework Version:2.0.50727.5477; ASP.NET Version:2.0.50727.5479

Also, if you inadvertently press the green “Select Date” button without first entering/selecting a date, you will be met with the following error message (See red box).

You will also receive this message if you try to enter a date that is unavailable. Any dates before May 22, 2011 will not be accessible.

You must first click within the “Enter Date” box to select or enter the date you would like to view.

Below, we clicked within the “Enter Date” box and the current month is shown. Use the left and right arrows to scroll through each month. Select the date once you find it and then click the green “Select Date” button.



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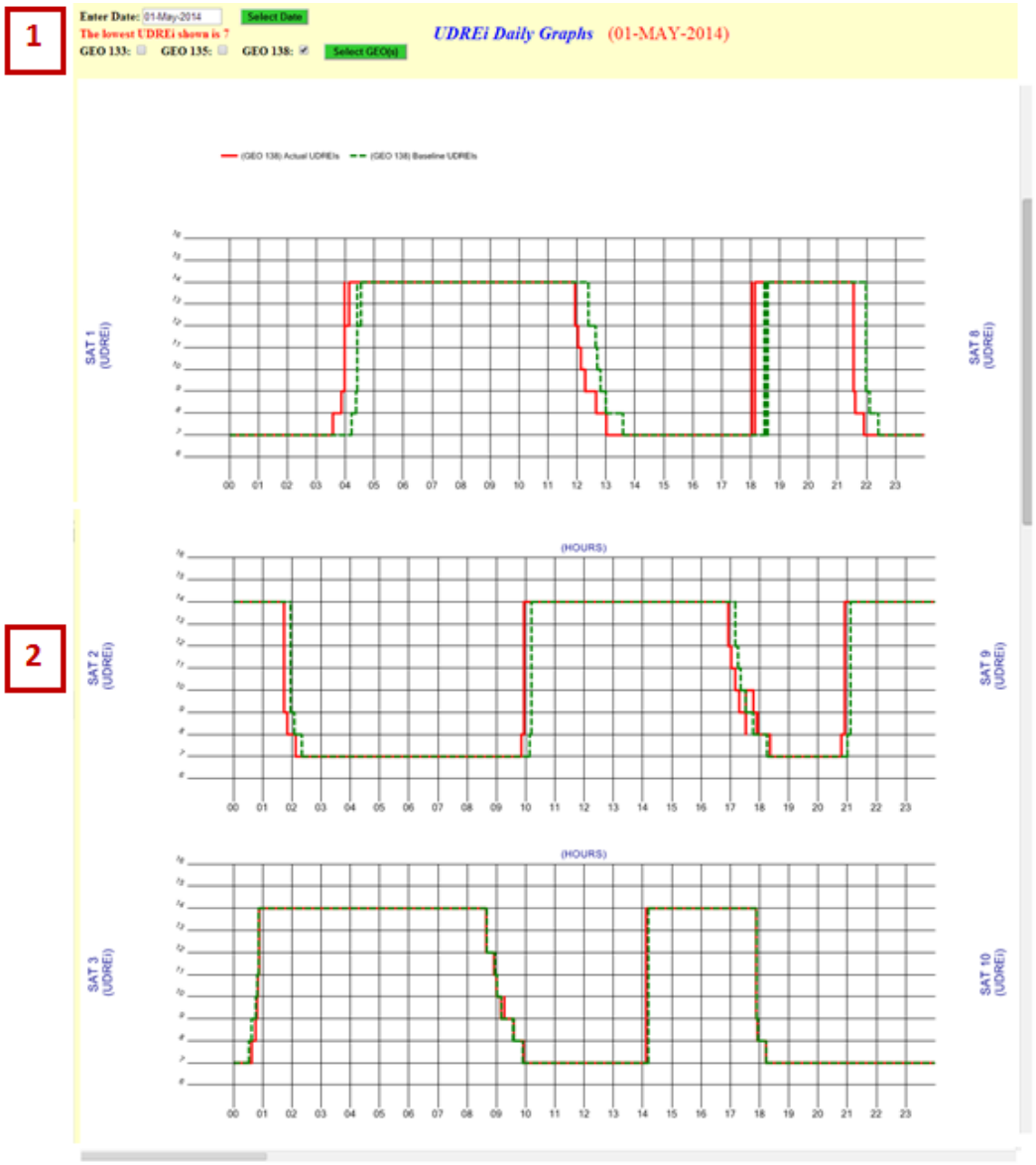
Main Screen

The next screen we see shows us the date we selected and the default geostationary satellite, GEO 138. In this case, we are looking at 01-May-2014 (See #1).

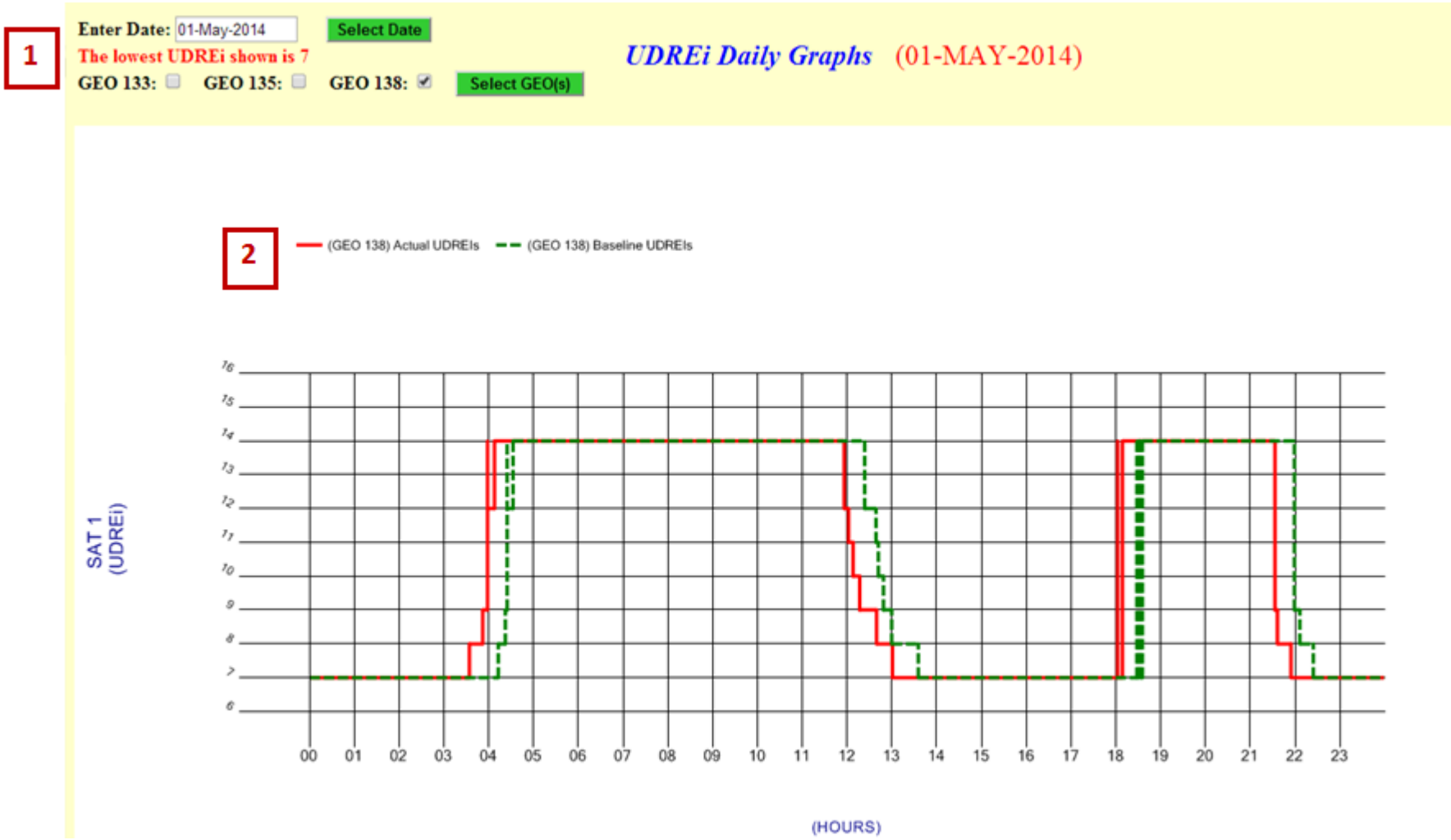
This is a screen shot of the UDREIs of just three (3) of the GPS and WAAS GEO satellites (See #2 below). To see the rest of the satellites' UDREIs, use the scroll bars on the bottom and right side of the window.



Here we are looking at the UDREI Daily Graph from May 1, 2014 using GEO 138 (See #1 below). Notice this screen shot is only showing the graph for Sat 1.

Please note: On all graphs, even though UDREi may dip lower than 7, the lowest UDREi shown in these graphs is always 7. Any numbers lower than this are harder to predict.

The red line is showing the ACTUAL UDREi for GEO 138 on this day. Each WAAS GEO may be transmitting a different UDREi. The green dotted line us the baseline UDREIs for the same. The baseline is based on historical data (See #2).

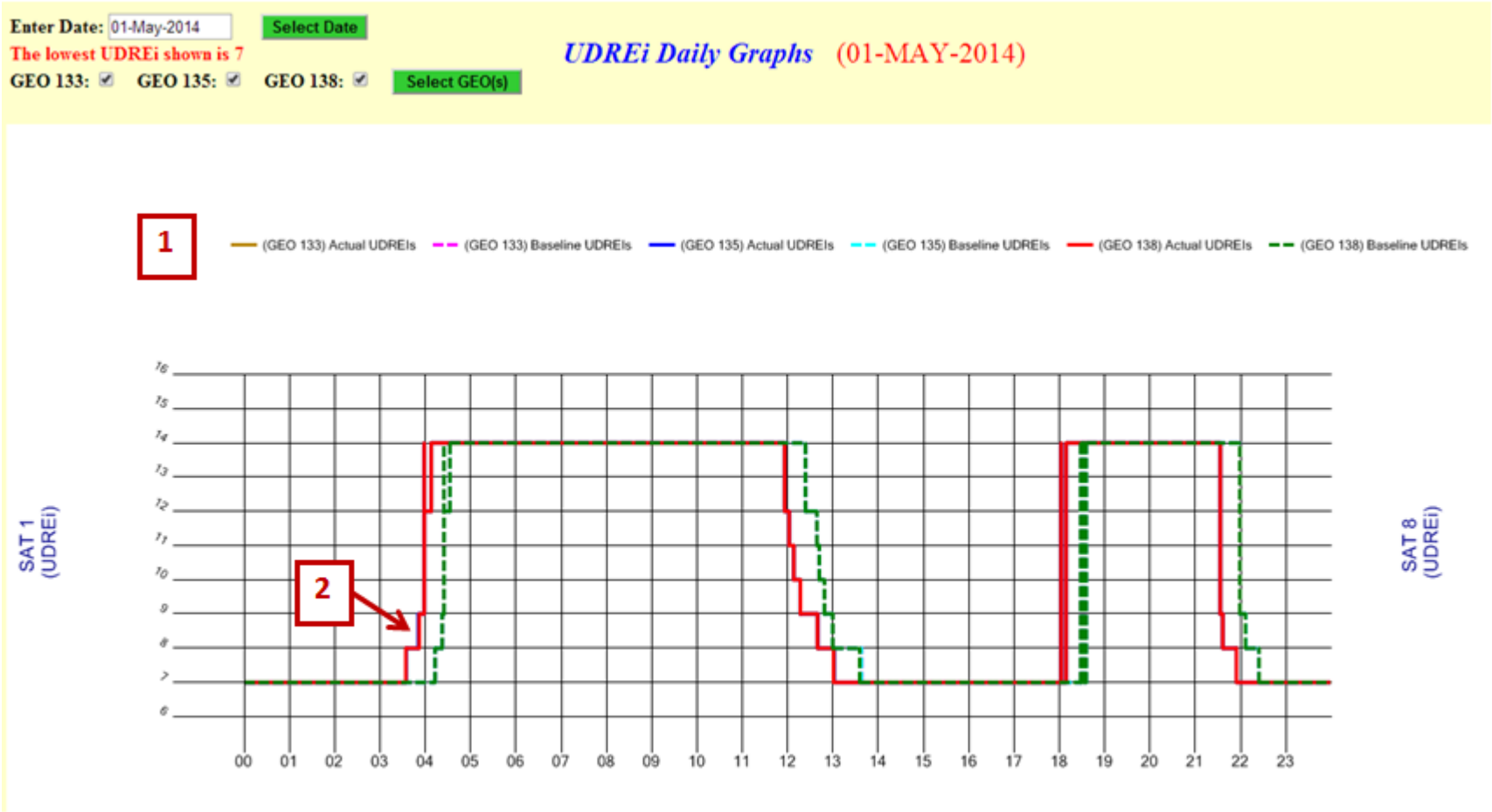


Selecting GEOs

Here we have indicated we would like to see GEO 133, GEO 135 and GEO 138 on the graphs. After selecting all three, we clicked the green "Select GEO(s)" button.

All GEOS have different line colors. All have solid lines to show Actual UDREi and dotted lines to show their UDREI baselines (See #1 below).

Upon closer inspection, you can see the UDREi of GEO 135 shown by a blue line (See #2).



Here we chose GEO 135 and clicked on the green “Select GEO(s)” button.