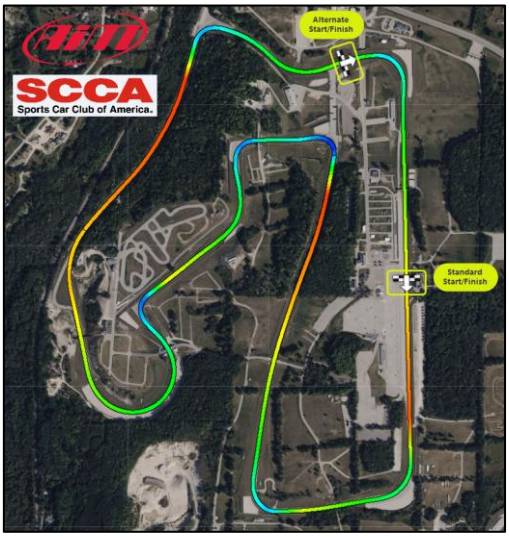
# AiM Sports Users and the 2025 SCCA Runoffs 'Alternative Start/Finish Line'

For the 2025 SCCA Runoffs at Road America, an 'Alternative Start/Finish Line' timing loop will be used for all official SCCA Test Days and Qualifying located between turns 13 and 14. Then for the Championship Runoffs race days, the conventional Start/Finish timing loop located on the front straightaway of the track will be used for official timing. See the track map image on this page.




**2025 SCCA Runoffs – Road America Track Map**

From a pure data focused perspective, AiM Sports data users can simply ignore the SCCA's use of an alternative S/F line and create lap times and data analysis from the standard S/F line on the front straight of the track. This will however create a situation where your lap times will NOT match the official SCCA lap times (and possibly teammates), and you will not realize the real benefits of practicing and qualifying while using the alternative S/F line.

There are several things an AiM Sport User can do to prepare for this event and then do during the event that will make this alternate S/F line a non-issue.

This document gives you information, some best practices, and specific solutions. Here is a hyperlinked Table of Contents to help you find the specific topic you need.

## Table of Contents

Pre-Event Preparation ..... 2
Updating Your Race Studio 3 Software ..... 2
Updating Race Studio 3 Track Database ..... 2
Track Map Information ..... 3
Removing Tracks from Your Hardware ..... 4
Adding Tracks to Your Hardware ..... 5
Track Maps in Race Studio 3 Analysis ..... 6
Changing the Track Map Assigned to Existing Data Files ..... 6
Loading Track Maps on Older AiM Hardware ..... 7
GPS Manager Track Loading Tips ..... 9
Track Maps in Race Studio 2 Analysis ..... 10

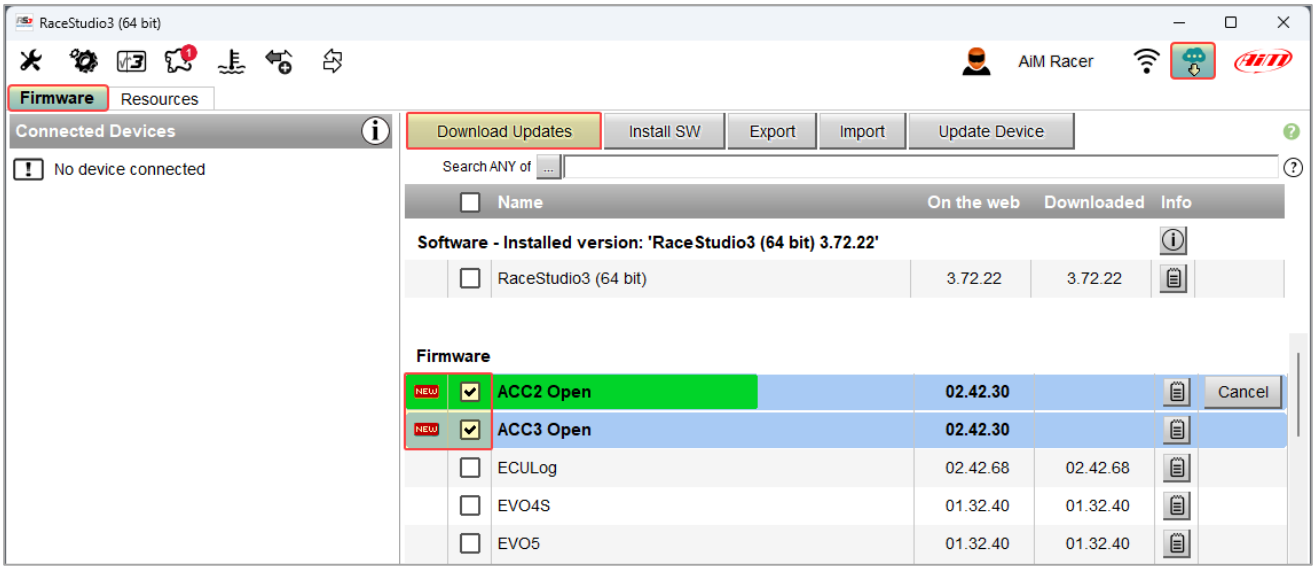
# Pre-Event Preparation

## Updating Your Race Studio 3 Software

It is strongly suggested that before this event you update the Race Studio 3 (RS3) software on your PC and the firmware on your AiM hardware. Having the latest AiM software and firmware will make sure that your AiM system will perform correctly.

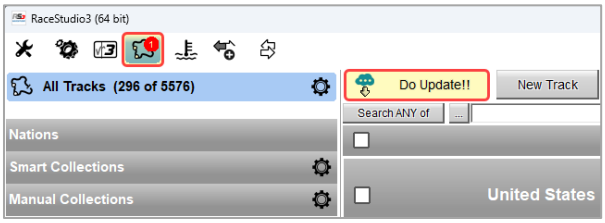
The RS3 software and firmware can be updated from directly inside of the program when your PC is connected to the internet and RS3 is open.

If any updates are available, the Web Updates icon (a blue cloud in the upper right corner) will include a download arrow. ( ) Click on the Web Updates icon to download and install the latest AiM Sports software and firmware.




## Updating Race Studio 3 Track Database

Included in the RS3 software is the AiM Track Database that includes nearly 6000 worldwide tracks and is constantly updated. When Track Database updates are available, the RS3 software Track Database icon will include a small red circle. To update, click on the icon and then the ' Do Update!!' button to update the Track Database.




Racetracks can often have more than one configuration. In the past however, Road America has only had one official track configuration. At the request of the SCCA, AiM has added an Alternate S/F Line Road America track configuration for the 2025 SCCA Runoffs and it is named 'Rd Amer Alt'. This is the same track layout as the original 'Rd Amer' track configuration but uses the 2025 SCCA Runoffs alternate S/F line location.

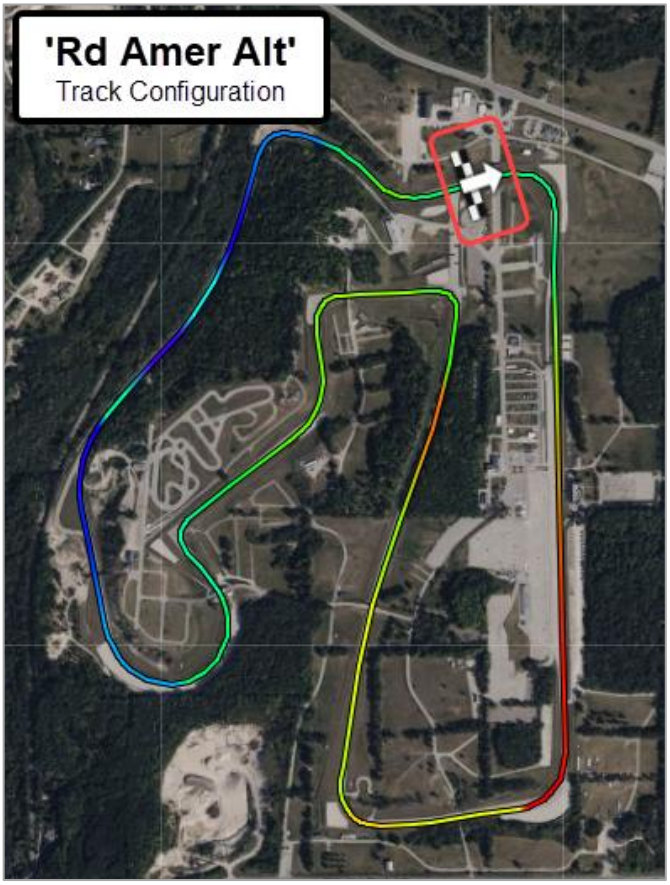
## Track Map Information

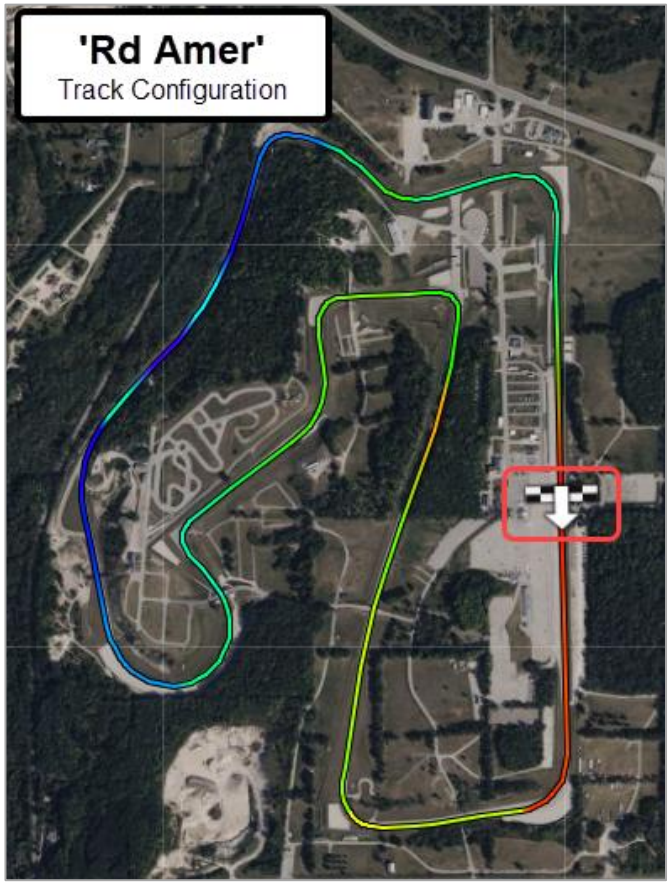
When attending an event at a track with multiple track configurations, it is recommended to load only the track configuration that is being used for that day's sessions and remove all other tracks from the same facility from your AiM hardware (both your AiM data logger and your SmartyCam if you use one). For this event you should remove all the Road America track configurations except the one being used for that day's sessions.

Here are the Sessions, Dates and AiM Track Maps that should be used for the 2025 SCCA Runoffs at Road America:

- Test Days — Sept 29th thru Oct 1st — Rd Amer Alt
- Qualifying — Oct 2nd and Oct 3rd — Rd Amer Alt
- Race Days — Oct 4th and Oct 5th — Rd Amer

While this schedule may suggest that you must make several track map changes on your AiM hardware, however this is not true. You should load the '**Rd Amer Alt**' track map prior to the start of the Test Days and Qualifying and then only change to the '**Rd Amer**' track map prior to your Race event.



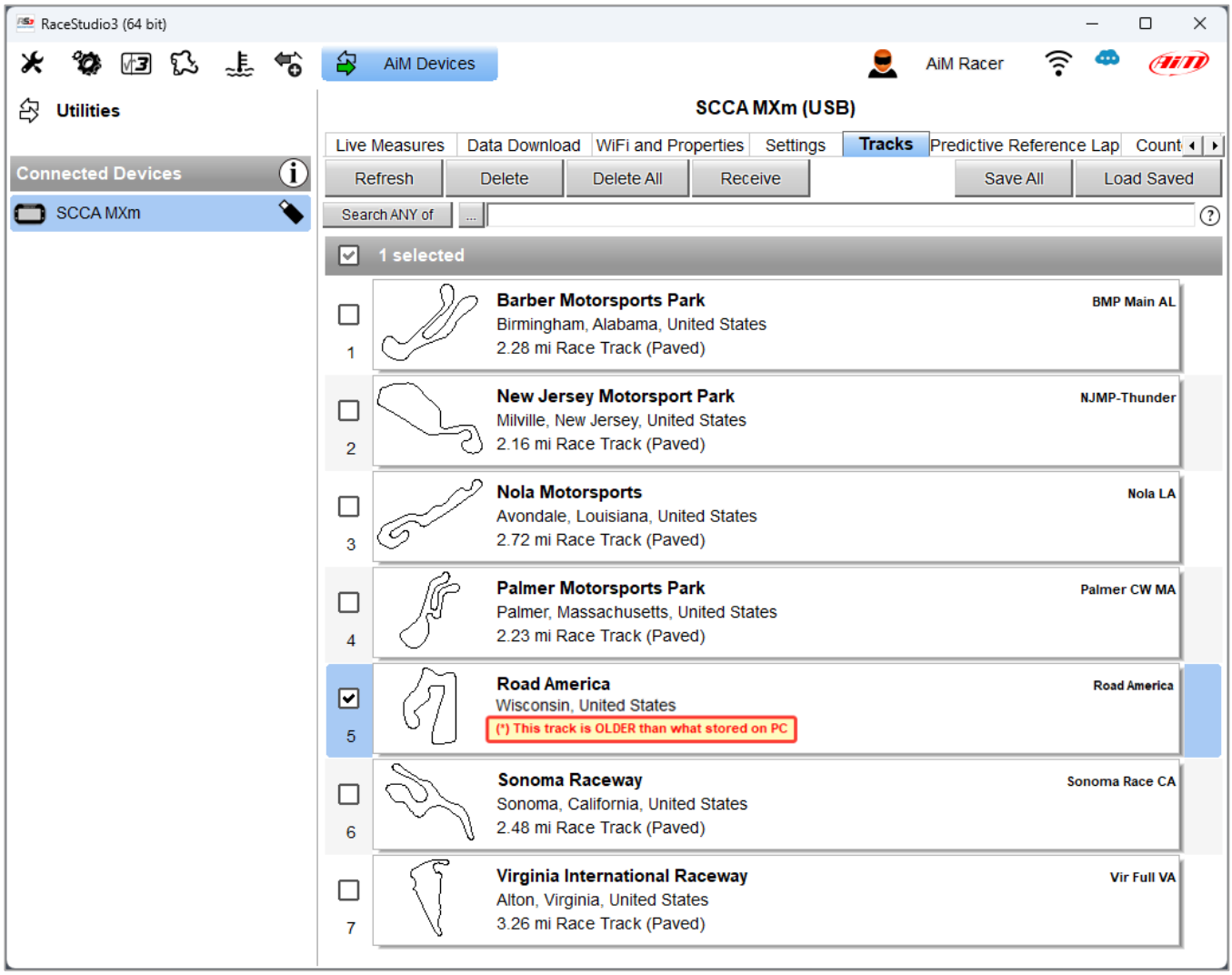



## Removing Tracks from Your Hardware

Open RS3 and connect to your AiM hardware. Select your hardware from the list of 'Connected Devices' and select the 'Tracks' tab. This will show you the tracks loaded on your device. It is suggested that you select the 'Delete All' button to remove all the loaded tracks as many tracks (including the Road America track configuration) because as you can see in the image below, tracks get updated in the Track Map database and Road America has very recently been updated and it is always best if you use the most current updated tracks.

As you can also see in the example below, there are other tracks not being deleted (NJMP, NOLA, Palmer, etc.) and if they are updated tracks, leaving these on your device is OK. You can have many different tracks loaded in the AiM Device, but you should only have one track configuration from the track you are running on.

However, for a large event like the SCCA Runoffs, we always suggest that you simply remove all tracks from the device and then load only the track configuration that you are going to run for that day.



## Adding Tracks to Your AiM Hardware

Open RS3 and connect to your AiM hardware. Select your hardware from the list of 'Connected Devices' and select the 'Tracks' tab. This will show you all the tracks you have loaded on your device. There should not be any tracks loaded on your device if you followed the directions on the prior page of this document.

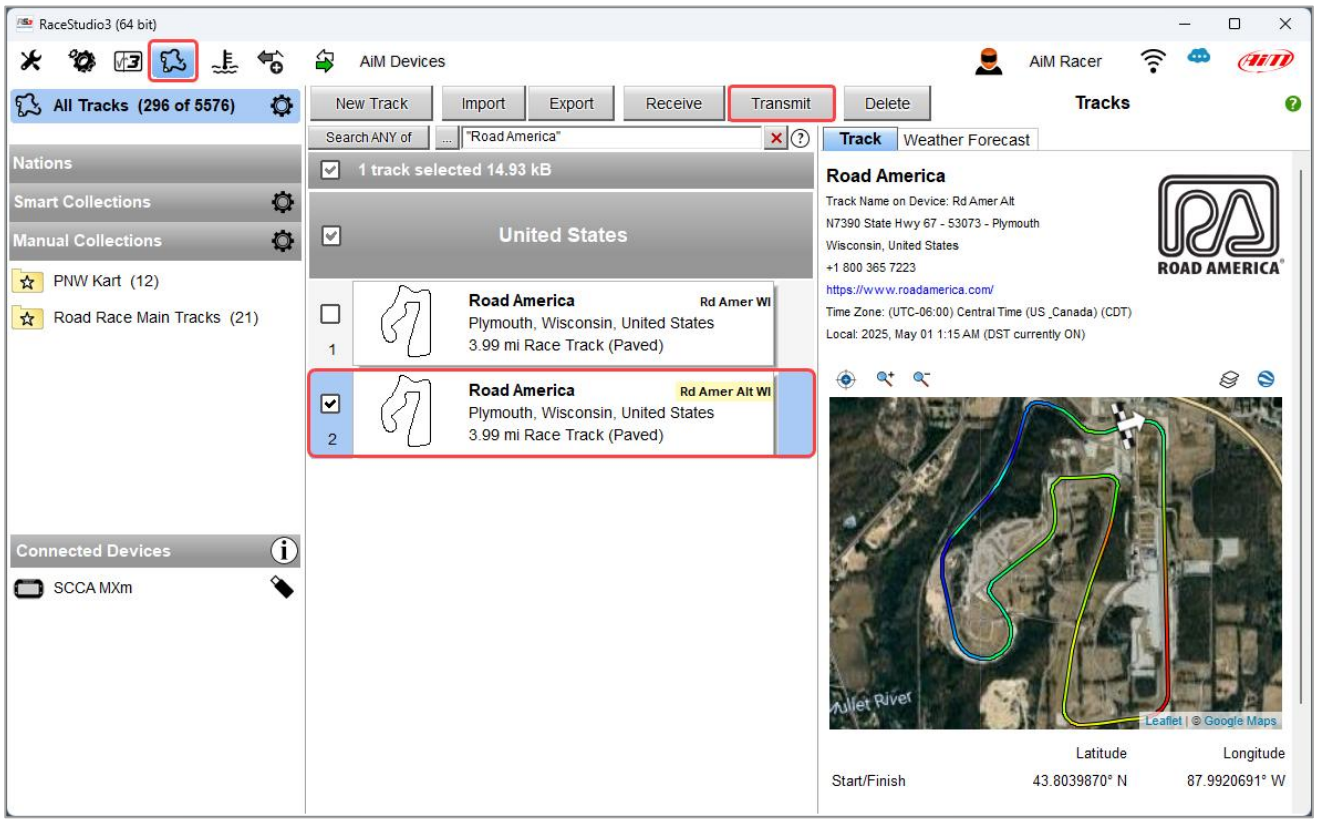
Click on the 'Tracks' icon in the upper left corner to open the RS3 Track Database and to filter the results, type "Road America" into the Search Box and you will be shown all the tracks that include "Road America" in the track name or description.

Select the track (or tracks) you want to load onto your AiM device and then click on the 'Transmit' button and the selected track(s) will be added to your device.

In the example below I have selected only the Road America **'Rd Amer Alt'** track to be transmitted, and this is what you should do as well for all the Practice and Qualifying sessions at the 2025 SCCA Runoffs.

Once your Qualifying sessions are complete, you will return to this and the prior page for the directions on how to remove the 'Rd Amer Alt' track map and load the **'Rd Amer'** track configuration for your Championship Race.

Again, it is critical to only have one Road America track configuration loaded at a time from the Road America facility.



# Track Maps in Race Studio 3 Analysis

When viewing data files in Race Studio 3 Analysis (RS3A) the software will default to the S/F line that was used when the data was recorded. For this event during Test Days and Qualifying that will be with the Road America track map **'Rd Amer Alt'**.

However, you may have data from earlier races or test sessions that was recorded with the standard **'Rd Amer'** track map loaded so you may have 2 sessions with different S/F line locations. This is easy to resolve.

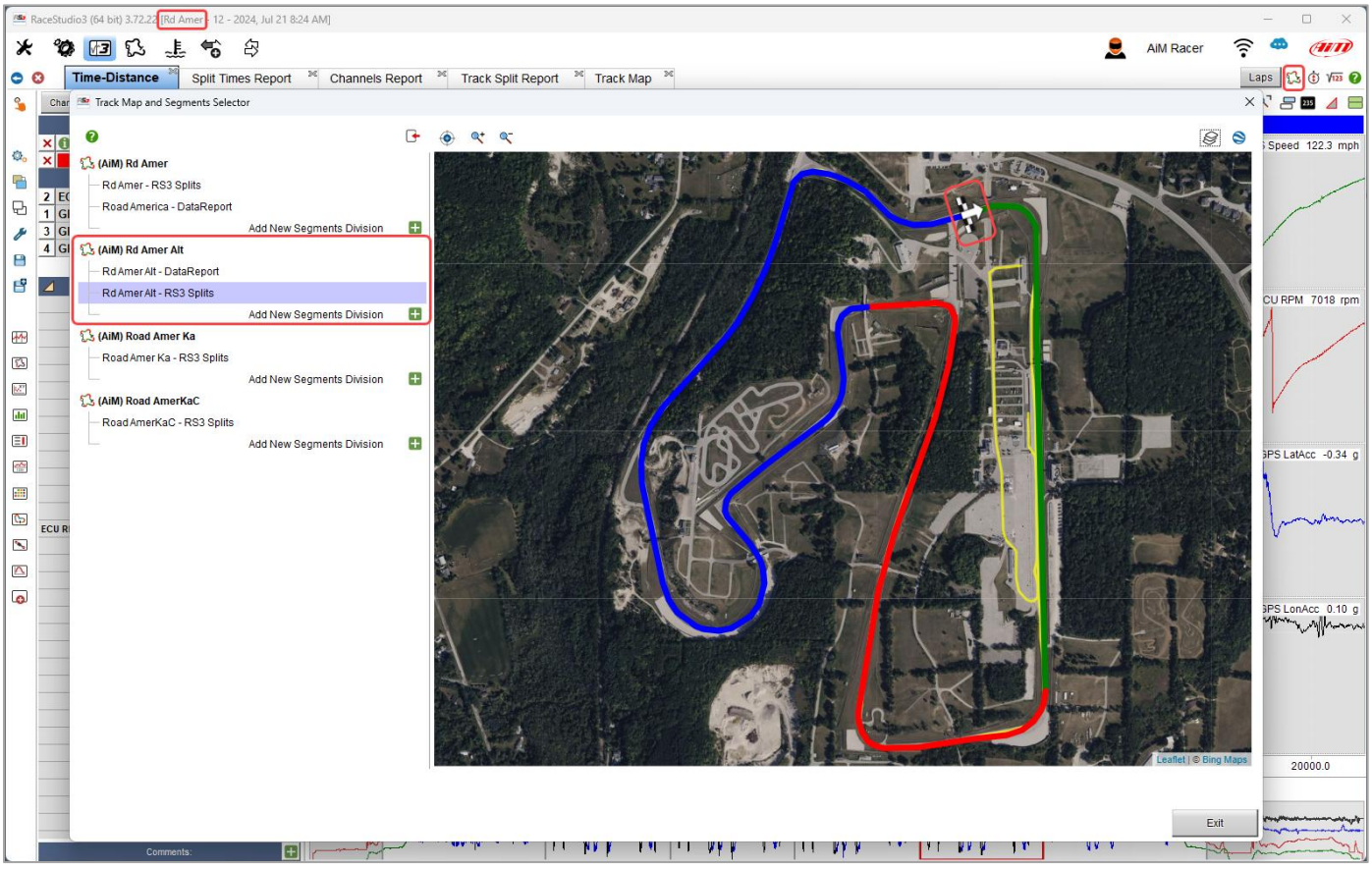
## Changing the Track Map Assigned to Existing Data Files

With a session open in RS3A you can identify the track map assigned to the session by looking at the header. In the example below the track attached is **'Rd Amer'**.

If you need to change an assigned track map to an open session, click on the 'Open Track Map and Sectors Selector' icon and you will be shown all the track map configurations that are available.

In the example below the Road America **'Rd Amer Alt'** track map has been circled and to select that map, click on the **'Rd Amer Alt – RS3 Splits'** text to select that track map configuration and then click on the 'Exit' button. This will open a dialog box stating, 'Do you want to use Rd Amer also for all sessions run on the same day?'.

This is a time-saving option that typically you will answer with a 'Yes' then all sessions from that day will have the new track map used.



## Loading Track Maps on Older AiM Hardware

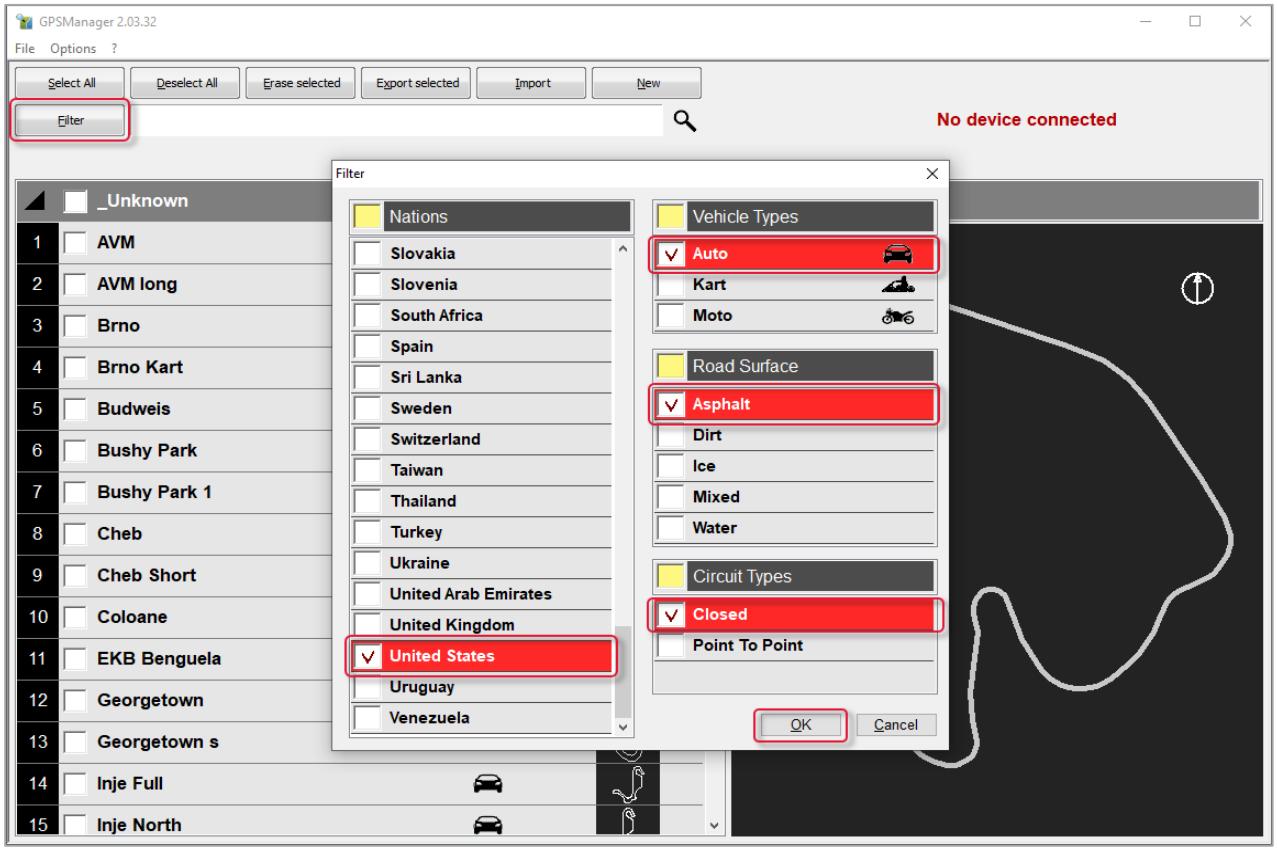
AiM Sports has also updated all the Road America track map configurations for the older Race Studio 2 and GPS Manager software. Here is a link to download the GPS Manager software. After downloading the file, install the GPS Manager software on your PC:

**GPS Manager:** https://www.aim-sportline.com/aim-software-betas/Software/Applications/GPSManager/release/GPSManager_20332_160826_WEB.exe

When you have downloaded and installed the GPS Manager software, the database will need to be updated so you will have the latest Road America Track map configurations. The first step is to download this small .zwd file that includes the updated Road America track configurations (click on the link below and save the file onto your PC where you can find it):

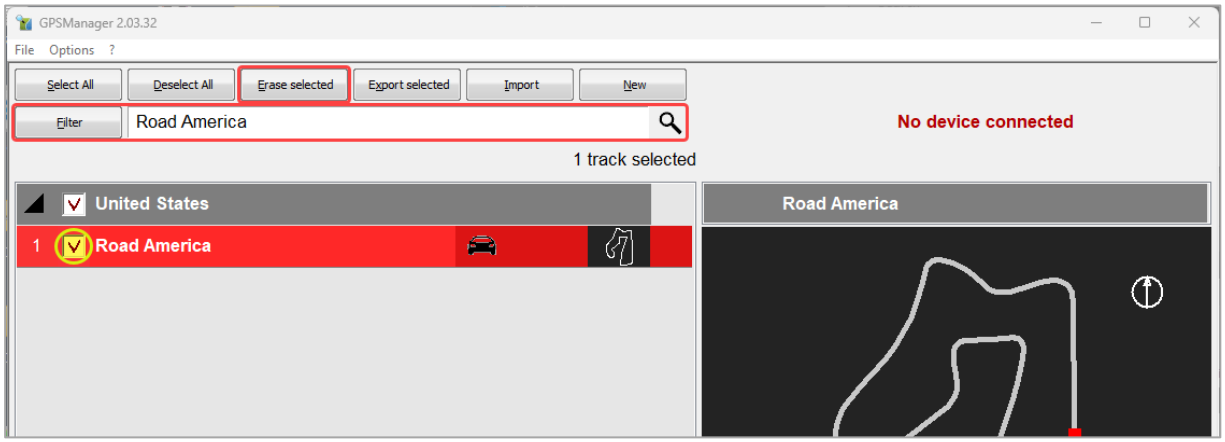
**Updated 'GPS Manager' Road America Tracks:** https://www.aimsports.com/webinars//maps/Updated_RdAmer_Tracks_2025.zwd

To update the GPS Manager track database to include the latest Road America track map configurations, open the GPS Manager software. The GPS Manager track database is a worldwide database so you may want to filter out tracks from other countries and track types. To do this click on the 'Filter' button and uncheck the 4 overall selection check boxes (highlighted in yellow) then under Nations, scroll down and select United States, under Vehicle Type select Auto, under Road Surface select Asphalt, and finally under Circuit Types select Closed. Yours should look like the image below and then click on the OK button:

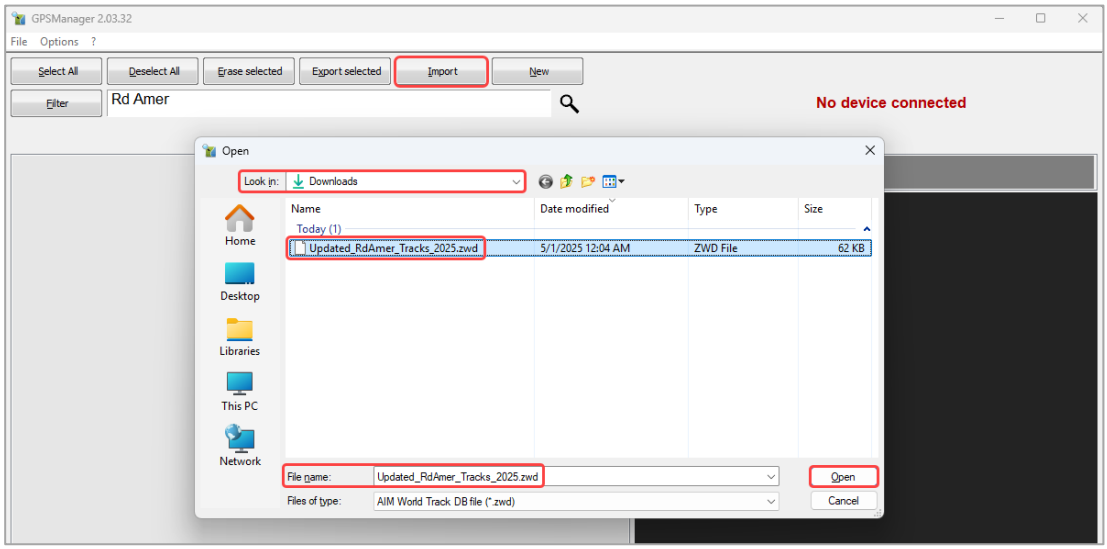


Next, we need to replace the old Road America configuration with the new Road America track configurations.

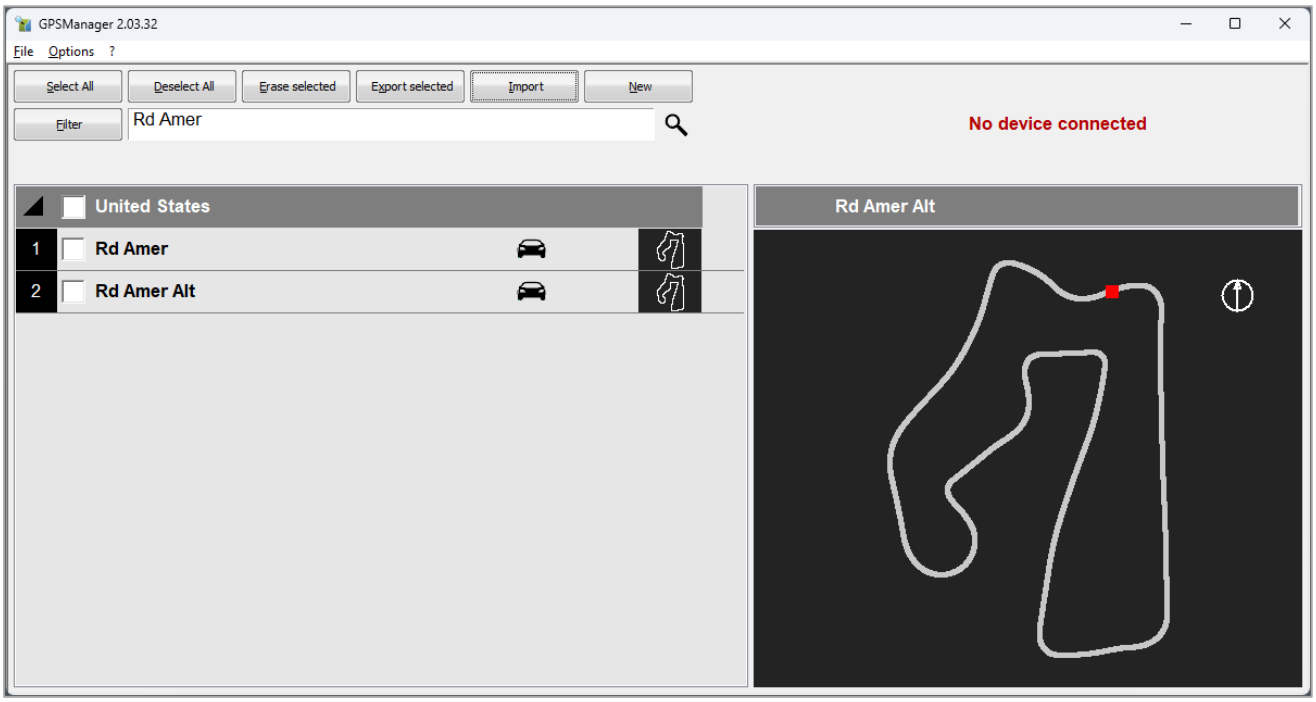
In the GPS Manager Filter bar, type in 'Road America' and you will only be shown the tracks in the database that start or match with Road America. Select any/all of these older configurations (there likely will only be one) by checking the box next to them and then click on the 'Erase Selected' button as shown in the image below. You will be asked to 'Erase all selected tracks from the database?' and click on Yes.




Now we need to Import the 'Updated Rd Amer tracks' configurations that you should already have downloaded from the link provided above. Inside GPS Manager, click on the 'Import' button and you will be given a dialog box to browse to the 'Updated _RdAmer_Tracks_2024.zwd' file you should have downloaded earlier. Once you have browsed to the file, click on the file name so it is placed into the File name box along the bottom of the dialog box, then click on the 'Open' button to finish importing the new Road America track configurations.



If you are still filtering the database with 'Rd Amer' as shown below, your GPS Manager database will now show only the following 2 new Road America track configurations:




This finishes the installation and updating of the GPS Manager software. You can now use this to load the updated tracks onto your AiM hardware and this database of tracks is also used for the process we describe next where Race Studio 2 Analysis can easily compare data from different Road America track configurations.

## GPS Manager Track Loading Tips

For tracks that have multiple track configurations (like this 2025 SCCA Runoffs at Road America) it is a good idea to only upload only 1 track configuration to your AiM hardware (both your data logger and SmartyCam if you use both). For the 2025 SCCA Runoffs this means before starting the events practice and qualifying sessions with the **'Rd Amer Alt'** track map loaded. Then when qualifying is over, connect to your logger (and SmartyCam if you use one) and remove the 'Rd Amer Alt' track and load the **'Rd Amer'** configuration for the race event.

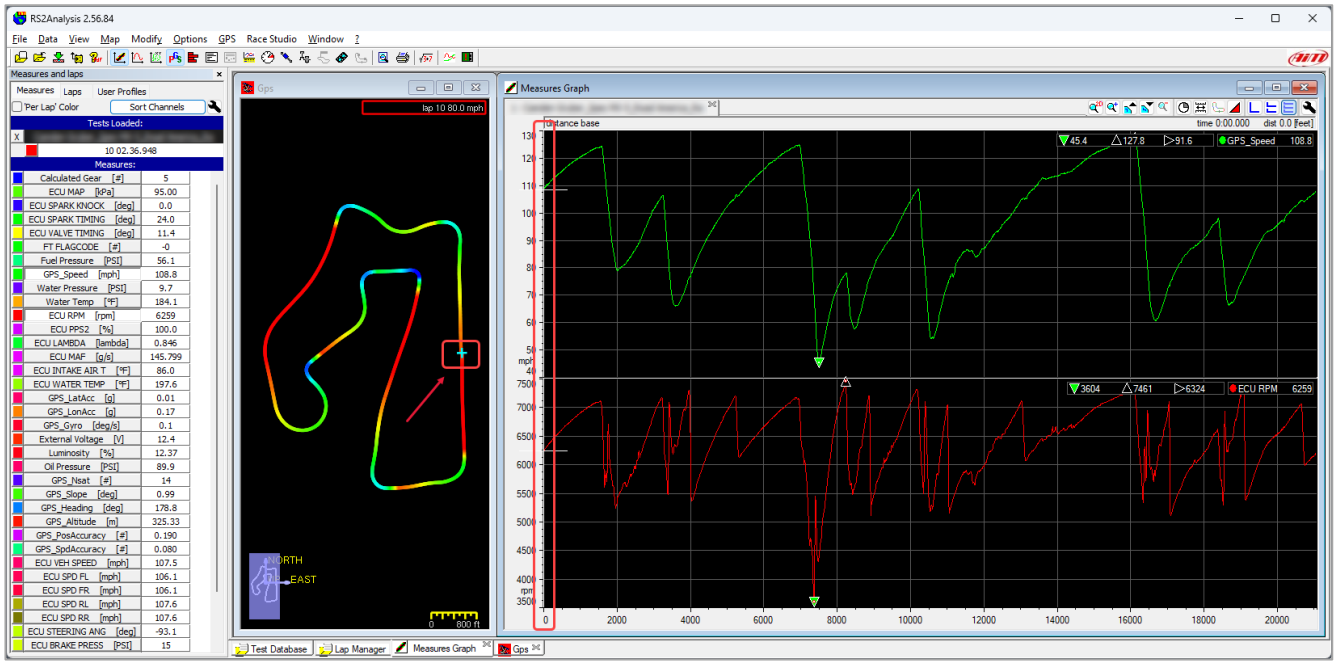
You can load multiple configurations but if you load multiple configurations that are from the same facility, you will need to go into the AiM logger (and SmartyCam) menu system and turn off the automatic track selection and select the correct track map configuration manually. This is an issue only because Road America will now have multiple track configurations on the same property.

## Track Maps in Race Studio 2 Analysis

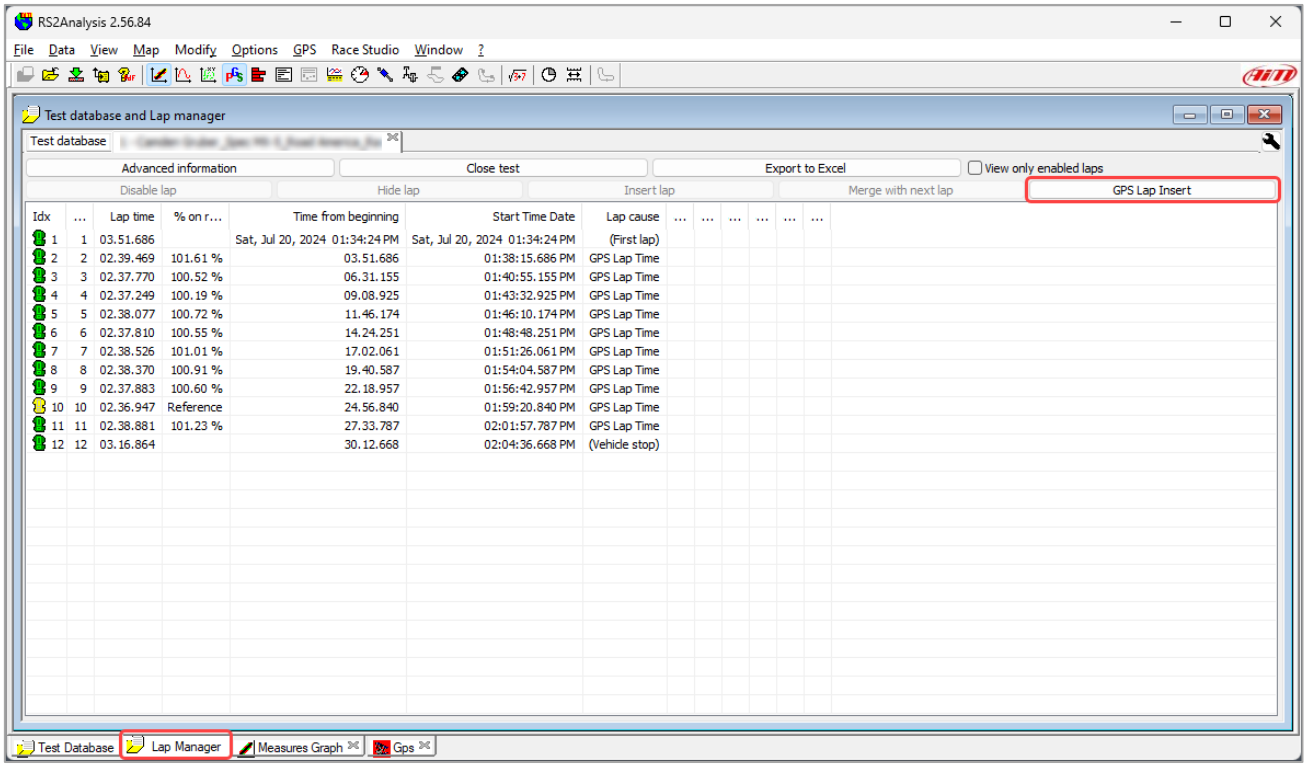
During the 2025 SCCA Runoffs at Road America you may find the need to compare data collected using the new 'Rd Amer Alt' track configuration that is using the alternate Start/Finish line coordinates between turns 13 and 14 of the racetrack with data collected using the traditional 'Rd Amer' track configuration using the Start/Finish line coordinates on the front straight. This is an easy task now that you have loaded the GPS Manager software and updated the Road America track configurations. If you have not done that already, please go back to the prior chapter in this document and do this because Race Studio 2 Analysis (RS2A) and the 'GPS Lap Insert' function shares the GPS Manager database so GPS Manager must be loaded and updated for the following process to work correctly.

In the RS2A software, your downloaded data files will use the S/F line location based on the track maps that were loaded on the AiM hardware when the data was collected. Once the data is in RS2A we can use a very powerful and fast function called 'GPS Lap Insert' to recalculate any AiM data files (that have GPS information) to have the S/F line location changed to another track configuration's S/F line location. After you do this then you can easily and accurately compare multiple data sessions.

Below is an image of a data session that was collected using a Road America track configuration with the traditional S/F line on the front straight. You can see that the cursor is at the start of the data and the GPS map shows the S/F line location:



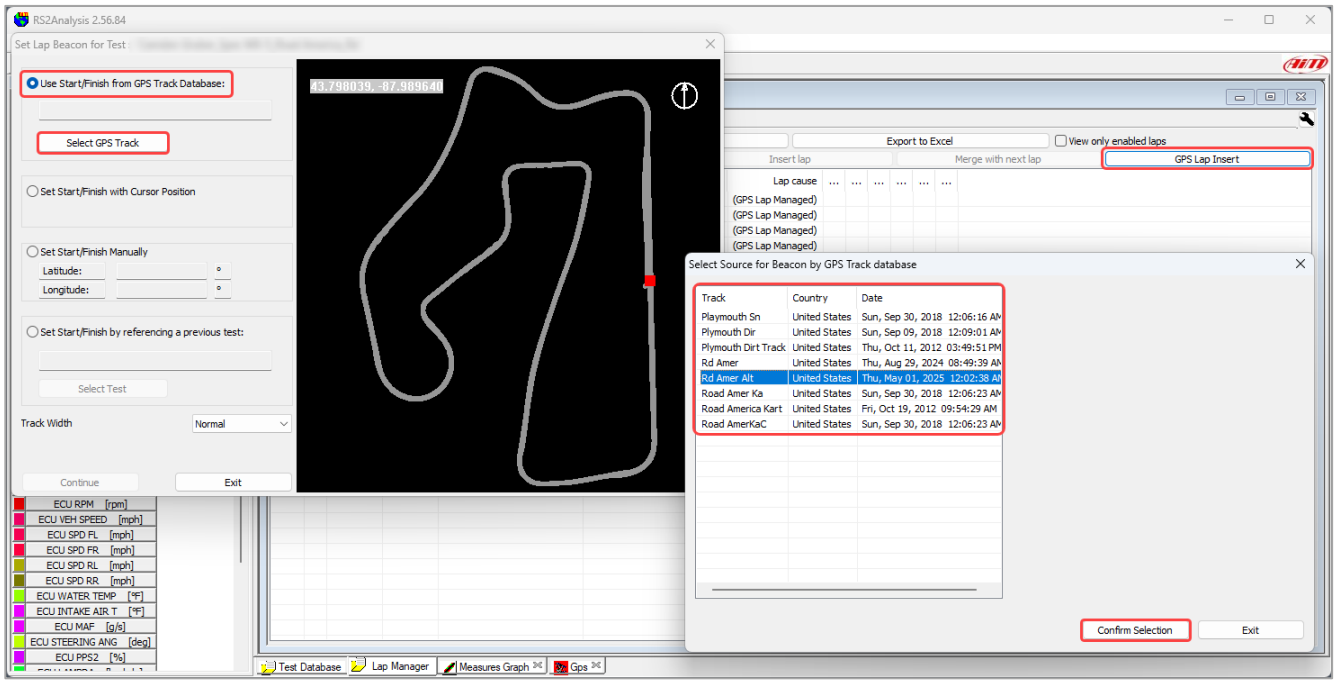
To recalculate any AiM data files (that have GPS information) to have the S/F changed to another track configurations S/F line location, the first step is to click on the 'Lap Manager' tab and then you will find the 'GPS Lap Insert' function:



When you have an AiM data session open and you click on the 'GPS Lap Insert' button, a dialog box will open giving you 4 different options to change your S/F line location, allowing the RS2A program to recalculate new laps for the session. In this case we are going to show what most find the fastest and easiest method, the top option of 'Use Start/Finish from the GPS Track Database'.

Click on this top option and set the radio button and then click on the 'Select GPS Track' and when you do this a list will be given showing all the tracks from the GPS Manager database you should have already updated, including the new 'Rd Amer' and 'Rd Amer Alt' configurations. If you have not done this already, go back earlier in this document and find the instructions on how to do this. Occasionally you may need to close and reopen RS2A to have it update the tracks shown if you recently updated the GPS Manager GPS tracks database.

Select the track that you want to use to set the new S/F line with from the list (in this example we are selecting the 'Rd Amer Alt' configuration) and then click on the 'Confirm Selection' button as shown below:



You will be presented with a 'Confirm Lap Times' list showing you what your lap times will be if you confirm this final step. If they look correct, click on the 'Confirm' button.

The Race Studio 2 Analysis software will then take just a few seconds to recalculate your data to move the S/F line to the track configuration you selected. This change will persist until you take the same steps again to change to another track configuration in the future. Do these same steps for any data sessions you may want to change the S/F line location.

Below is an image of the data session used as an example here showing the cursor placed at the beginning of the Measures Graph and showing that location on the GPS map confirming this data now has the 'Rd Amer Alt' track configuration used for the S/F line location and all laps and times calculated from this line.

