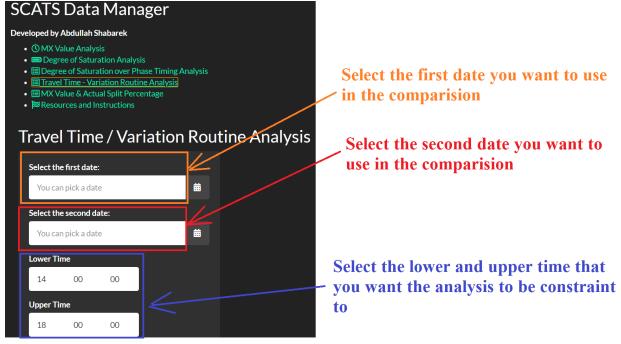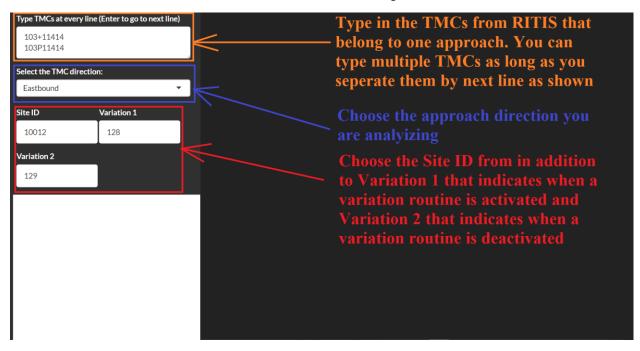# Instructions for Travel Time – Variation Routine Analysis

For this part you are required to see how the Travel time from RITIS changes between two selected dates in addition to visualization of how a specific Variation Routine is activated on those two dates and potentially seeing the impact of a variation routine on
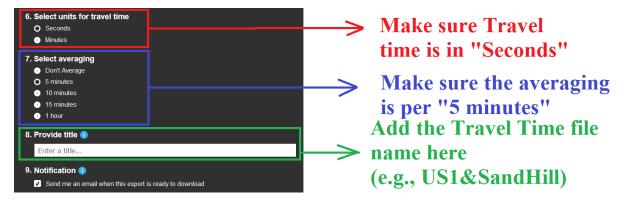
**<u>Step1:</u>** Identify the two dates of comparison and lower/upper time thresholds that you want to constraint the analysis to

**SCATS Data Manager**

Developed by Abdullah Shabarek

- ⏱ MX Value Analysis
- ▭ Degree of Saturation Analysis
- ▦ Degree of Saturation over Phase Timing Analysis
- ▦ Travel Time - Variation Routine Analysis
- ▦ MX Value & Actual Split Percentage
- ▶ Resources and Instructions

## Travel Time / Variation Routine Analysis

**Select the first date:**

| You can pick a date | 📅 |

**Select the second date:**

| You can pick a date | 📅 |

**Lower Time**

| 14 | 00 | 00 |

**Upper Time**

| 18 | 00 | 00 |

**Select the first date you want to use in the comparision**

**Select the second date you want to use in the comparision**

**Select the lower and upper time that you want the analysis to be constraint to**
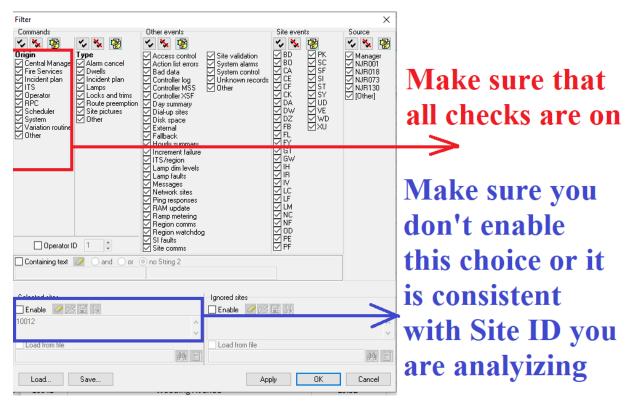
**Step2:** Type in TMCs from RITIS that belong to one direction. You may type in multiple TMCs as long as you separate them by next line (by hitting enter between the TMCs as shown below). Select the site ID and both the variation 1 (i.e., VR activation) and variation 2 (i.e., VR deactivation). You may find the VR numbers which are identical to each intersection from SCATS log.
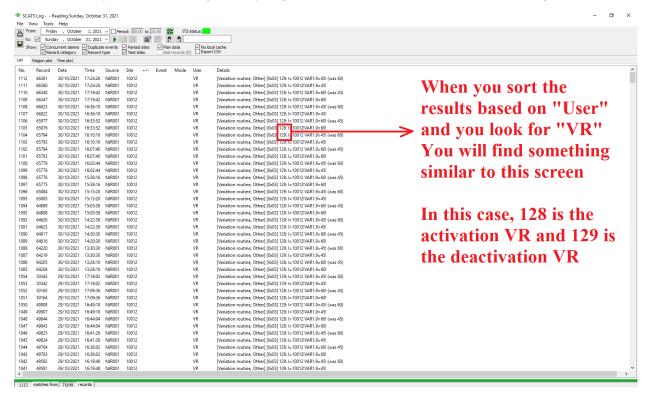


**Step3:** Go to RITIS to "Massive Data Download". Select the segments that you are interested in and the range of dates that includes both Date 1 & Date 2 in one file.

**Step 4:** From SCATS Log, you need to export the results as CSV file but make sure that the filter is checked in for "Origin" as shown below. Also, make sure you are not filtering for a specific site id that is different from the Site ID you are analyzing, as shown below. You don't have to click enable. The website will exclude the irrelevant results automatically even if you include them.



**Make sure that all checks are on**

**Make sure you don't enable this choice or it is consistent with Site ID you are analyzing**

**Step5:** In case you are wondering where you get the Variation Routine # from SCATS Log



When you sort the results based on "User" and you look for "VR" You will find something similar to this screen

In this case, 128 is the activation VR and 129 is the deactivation VR

**Step6:** Go back to the website to upload the following three files as shown and illustrated below:



Upload the Travel Time file you got from RITIS

Upload the "TMC Identification" file that you got in the same folder as Travel Time file from RITIS

Upload the SCATS log csv file you exported from SCATS log

Click Preview to see the results on the webpage or Download to download the results as csv file