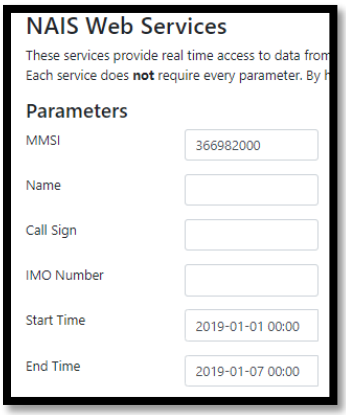
Before starting: Users should have an AISAP account.

Part 1: Find the current location of a vessel

Exercise Goal: Users will learn to use NAIS Web Services to find the last known AIS positon report of a vessel. In this example, we'll look for the Dredge Wheeler.



1. Log in to your AISAP account.
2. Go to the **Data Requests** → **NAIS Web Services**. A new tab will open.
3. In the **MMSI** field, enter **366982000**.
4. Let's check that this is the MMSI for the Dredge Wheeler.
5. In the **Start Time** Field, select 2019-01-01 00:00 and in the **End Time** Field, select 2019-01-07 00:00.
6. Locate **Vessel Identify** under **Services** and click on its **XML** button. Text should appear in the Output from Webservice field, after about 30 seconds.

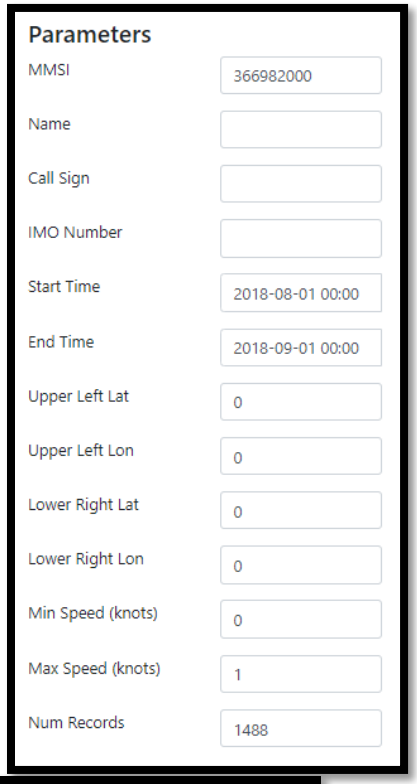
7. What is the name of the vessel associated with MMSI 366982000? _____
8. To find the current location of the vessel, locate **Vessel Position** under **Services** and hover over its **JSON** button. What parameter field(s) do you need to populate in order to find this information (Hint: the field(s) will be circled in red)?_____ Make sure you have that field(s) populated.
9. Click on the **Vessel Position** JSON button. Text should appear in the Output from Webservice field.
10. What is the current location of the vessel? Latitude:_____ Longitude: _____
11. When was this position report received from the vessel? _____

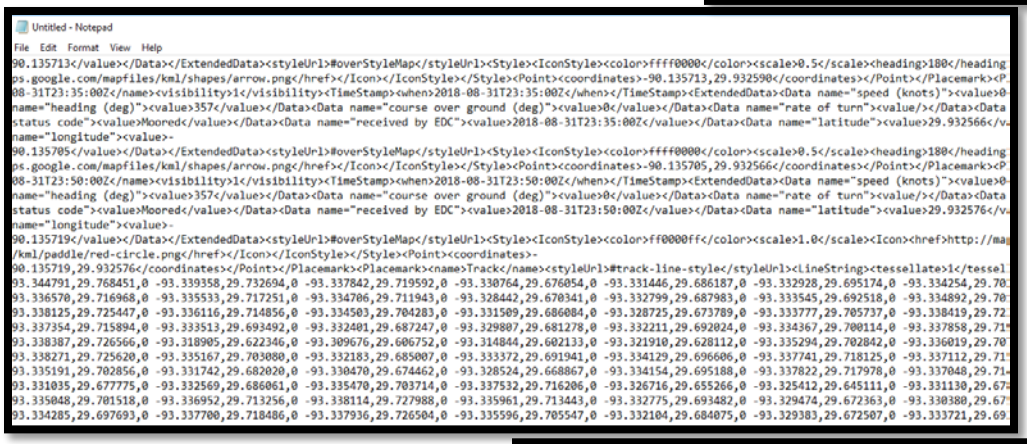
Part 2: Download the KML track of a vessel

Exercise Goal: Users will learn to use NAIS Web Services to access the historic track of a vessel. In this example, we'll see where the Dredge Wheeler transited in August 2018.

12. Make sure you are still in **Data Requests** → **NAIS Web Services**.

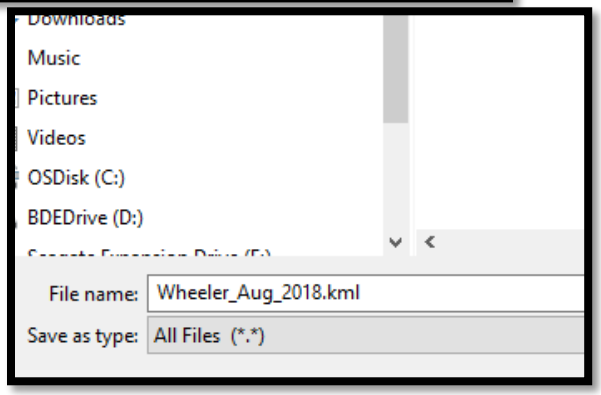
13. Locate **Vessel Position Aggr. List** under **Services** and hover over its **KML Track** button. What parameter field(s) do you need to populate in order to find this information (Hint: the field(s) will be circled in red)?_____
14. In the **MMSI** field, enter **366982000** for the Dredge Wheeler.
15. In the **Start Time** Field, select 2018-08-01 00:00 and in the **End Time** Field, select 2018-09-01 00:00.
16. In the **Num Records** Field, enter 1488, which is equivalent to 2 records per hour over 31 days.
17. Locate **Vessel Position Aggr. List** under **Services** and click on its **KML Track** button. Text should appear in the Output from Webservice field after about 20 seconds.
18. We need to copy the output into a file that can then be read by Google Earth, ArcGIS, or other tool of your choosing. Start by opening Notepad or other text tool on your computer.
19. Copy and paste ALL the text from the Webservice field into Notepad.





20. Save the file as **Wheeler_Aug_2018.kml** You need to change the SaveAsType field to All Files.
21. You can now open the file in a kml viewer tool, such as Google Earth.
22. Where did the vessel transit during August 2018?

_____



Note, when downloading tracks with position reports less than every 5 minutes, such as every 1 minute, use the **Service Vessel Position List**, not **Vessel Position Aggr. List**.

If you have time left, try out some of the other **Services** yourself or repeat these exercises for a different vessel you want to know more about.

End of Lesson.