

****A lot of window opens, keep track of your windows and close the windows you don't need****

Dashboard

- Click on the 'funnel' shaped icon to select the **Selected Group(s)** and **Selected Projects**

Slocum Fleet Mission Control 2019-05-03 20:56:37 nilza

Mission Control Configuration History Tools About

Map Events

Deployments - 2 being watched

osusim **✓**
No active script
Project: N/A
Connection: **✓**
Connected for: 01:13
@2019-05-03 19:43:09

Next Waypoint: Not yet known
VMG/Speed: **✓**
VMG: -
Speed: -

Last Location: Not yet known

Options

- View Deployment Details
- View Data Visualizations
- View Mission Plan
- View Event Timeline
- View Log Notes
- Create Log Note
- Configure Project Assignment
- Configure Last Call-in Alert Setting
- Export Glider Commands
- Export Map Events to KMZ

shoobox **✓**
No active script
Project: N/A
Connection: **✓**
Connected for: 01:14
@2019-05-03 19:41:59

Next Waypoint: **✓**
45°14.98'N
123°00.00'W
0.052 km 10°

VMG/Speed: **✓**
VMG: -
Speed: -

https://gliderfmc1.ceas.oregonstate.edu/sfmc/deployment-pages/deployment-mission-plan/osusim-2019-04-26T17:54

Map Events

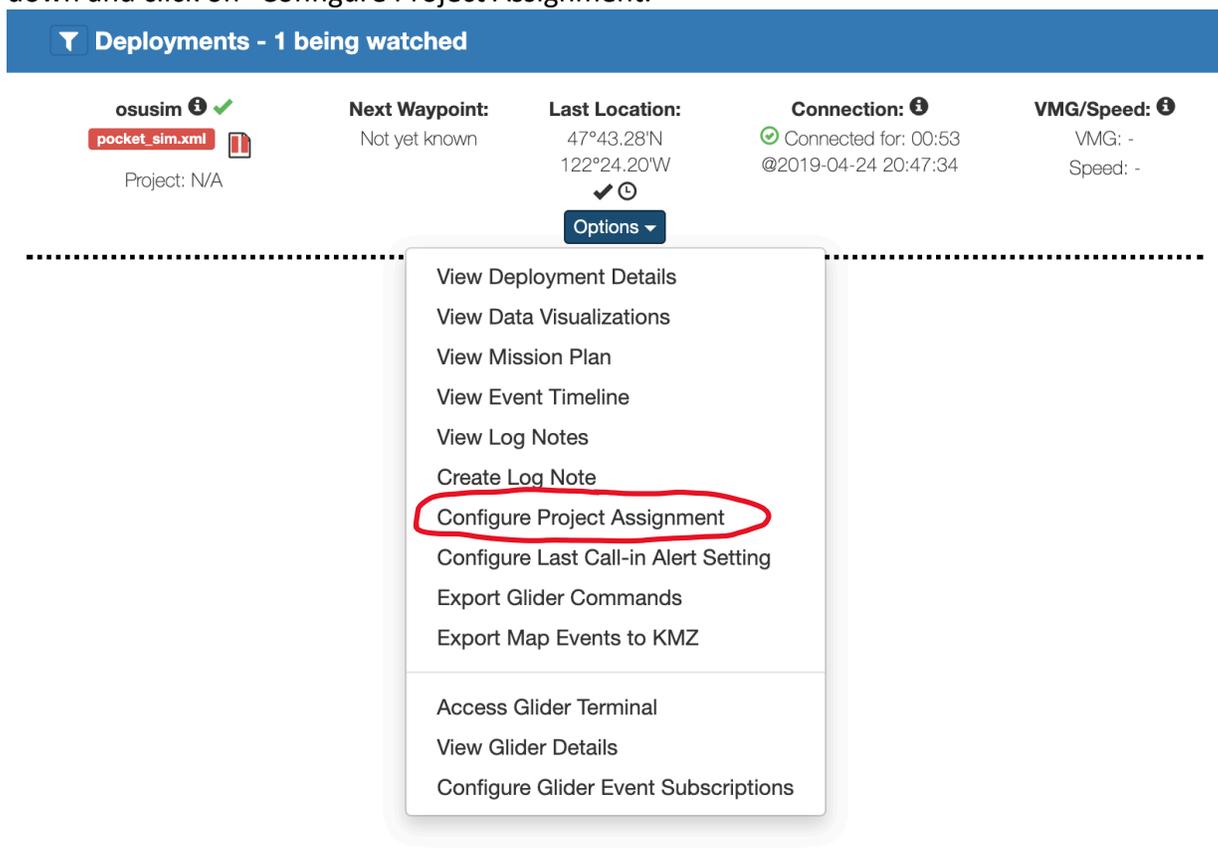
Select the maps with this icon

- ArcGIS
- NASA Blue Marble
- RNC
- World Ocean Base
- World Topo Map
- GEBCO
- Isobath Gulf of Mexico
- isobath Newport
- isobath PNW
- Isobath Puget Sound
- Isobath Vietnam
- NHLine

https://gliderfmc1.ceas.oregonstate.edu/sfmc/deployment-pages/deployment-mission-plan/osusim-2019-04-26T17:54

To associate an active glider deployment with a project, this is optional:

- From the Deployments pane of the dashboard window, click on the glider's Options pull down and click on "Configure Project Assignment."

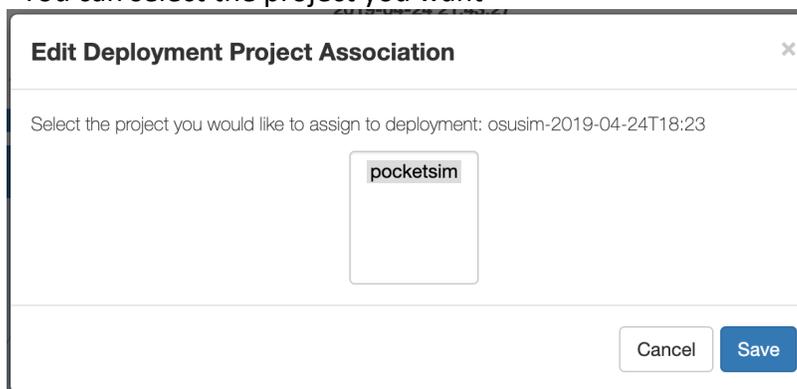


The screenshot shows the 'Deployments - 1 being watched' section. It displays a deployment named 'osusim' with a status of 'pocket_sim.xml' and 'Project: N/A'. Key metrics include 'Next Waypoint: Not yet known', 'Last Location: 47°43.28'N 122°24.20'W', 'Connection: Connected for: 00:53 @2019-04-24 20:47:34', and 'VMG/Speed: -'. An 'Options' dropdown menu is open, listing various actions. The 'Configure Project Assignment' option is circled in red.

Deployment Name	Next Waypoint	Last Location	Connection	VMG/Speed
osusim pocket_sim.xml Project: N/A	Not yet known	47°43.28'N 122°24.20'W	Connected for: 00:53 @2019-04-24 20:47:34	VMG: - Speed: -

- View Deployment Details
- View Data Visualizations
- View Mission Plan
- View Event Timeline
- View Log Notes
- Create Log Note
- Configure Project Assignment**
- Configure Last Call-in Alert Setting
- Export Glider Commands
- Export Map Events to KMZ
- Access Glider Terminal
- View Glider Details
- Configure Glider Event Subscriptions

- This will bring up a pop-up.
- You can select the project you want



The pop-up window is titled 'Edit Deployment Project Association'. It contains the text: 'Select the project you would like to assign to deployment: osusim-2019-04-24T18:23'. Below this text is a text input field with the value 'pocketsim'. At the bottom right, there are two buttons: 'Cancel' and 'Save'.

To associate a “Mission Plan” with an active deployment:

- From the Deployments pane of the dashboard window, click on the glider’s Options pull down and click on “View Mission Plan.”

The screenshot shows the 'Deployments - 1 being watched' section. It displays details for a deployment named 'osusim' with a status of 'pocket_sim.xml' and 'Project: N/A'. Key information includes 'Next Waypoint: Not yet known', 'Last Location: 47°43.28'N 122°24.20'W', 'Connection: Connected for: 00:53 @2019-04-24 20:47:34', and 'VMG/Speed: -'. An 'Options' dropdown menu is open, listing various actions. The 'Configure Project Assignment' option is circled in red.

Deployment Name	Status	Next Waypoint	Last Location	Connection	VMG/Speed
osusim	✔	Not yet known	47°43.28'N 122°24.20'W	✔ Connected for: 00:53 @2019-04-24 20:47:34	VMG: - Speed: -

Options:

- View Deployment Details
- View Data Visualizations
- View Mission Plan
- View Event Timeline
- View Log Notes
- Create Log Note
- Configure Project Assignment
- Configure Last Call-in Alert Setting
- Export Glider Commands
- Export Map Events to KMZ
- Access Glider Terminal
- View Glider Details
- Configure Glider Event Subscriptions

- From the “Mission Plan” pane, use the “Selected Mission Plan:” pull down to select the mission you want to associate with this deployment:

The screenshot shows the 'Mission Plan' interface. A yellow notification bar at the top states: 'Mission plan updates have been made and are ready to be processed. Ensure glider configuration provided matches what is actual.' Below this, the 'Selected Mission Plan:' dropdown menu is open, showing 'pocket_sim' selected. The interface includes a 'Waypoint Plan' section with a table of waypoints and a map showing the mission route. The 'Selected Mission Plan:' dropdown is circled in red.

Mission Plan

Mission plan updates have been made and are ready to be processed. Ensure glider configuration provided matches what is actual. [Process](#)

Selected Mission Plan: pocket_sim [Modify Selected Mission Plan](#) [Create New Mission Plan](#)

Waypoint Surface Yo Sampling Mission Sensor Abort Data Transmission

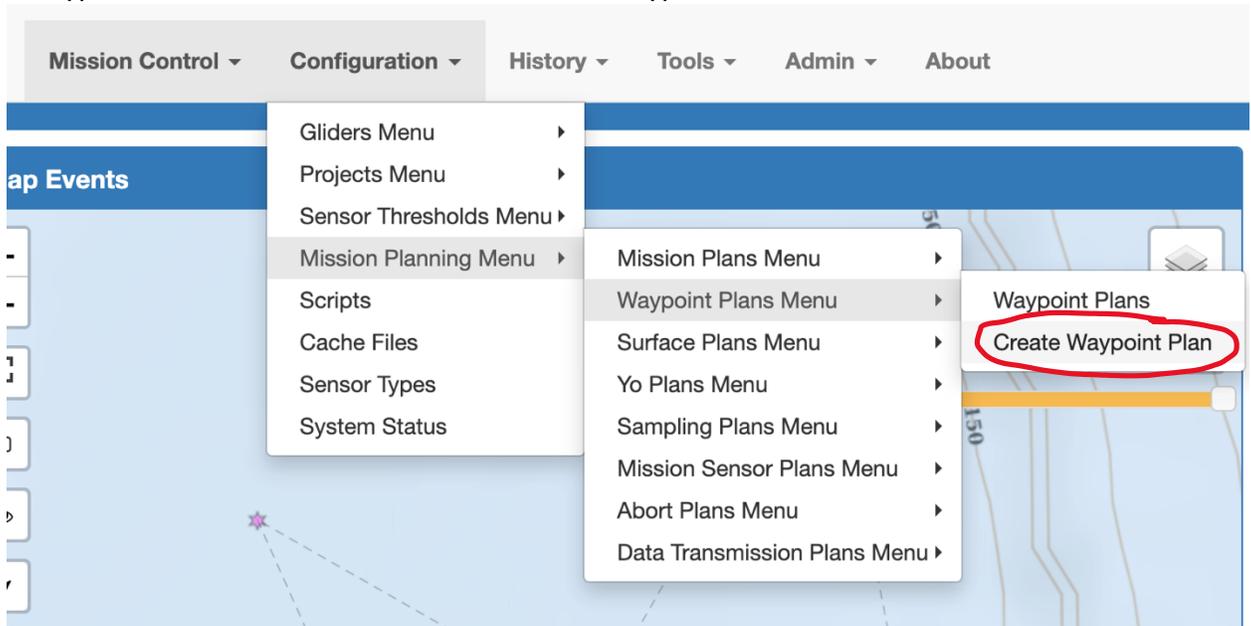
Waypoint Plan - Includes Events from Last 5 Days

Waypoint Plan Name:	PG Butterfly
Created By:	pat
Creation Date/Time:	2019-04-24 19:14:15
Last Modified By:	pat
Last Modified Date/Time:	2019-04-24 19:15:35
Waypoint Traversal Option:	Loop Forever
Initial Waypoint:	47°44.16N 122°23.46W
Waypoints:	<ul style="list-style-type: none">47°44.16N 122°23.46W47°43.51N 122°23.27W47°43.93N 122°24.36W47°43.25N 122°23.91W

Hide unselected deployments

Create Waypoint Plan:

- Under the Configuration pull down, click on “Mission Planning Menu” then click on “Waypoints Plan Menu” then click on “Create Waypoint Plan”



- Name the new plan for your deployment and click Next:

Create Waypoint Plan

Please enter a name for the waypoint plan and select a group with which the waypoint plan should be associated.

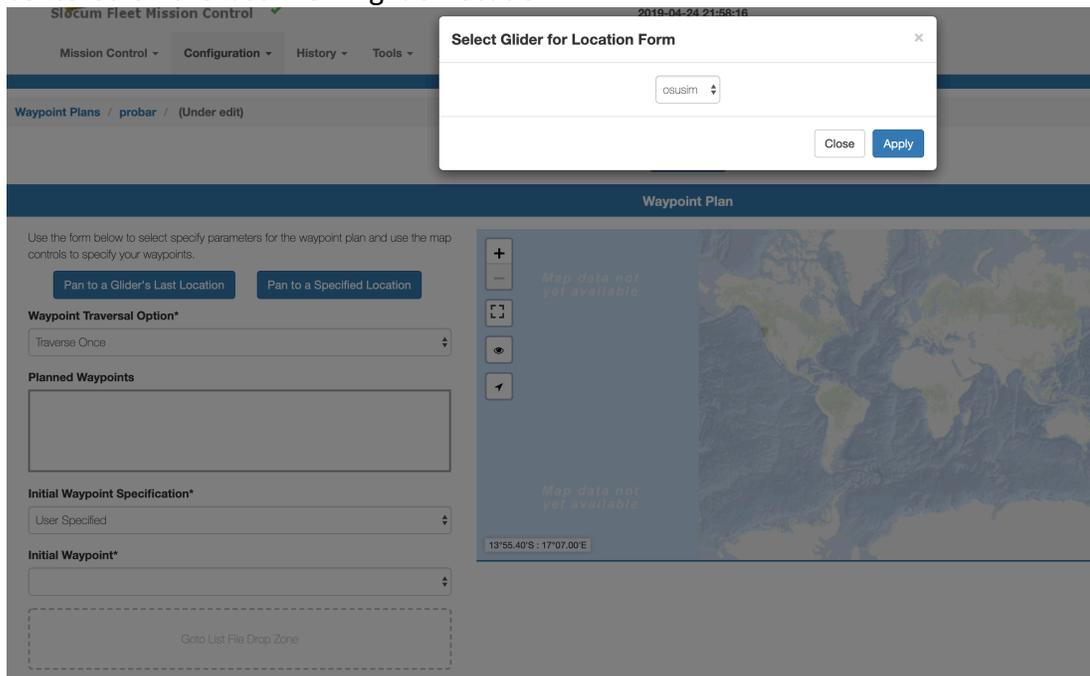
Waypoint Plan Name*:

Group*

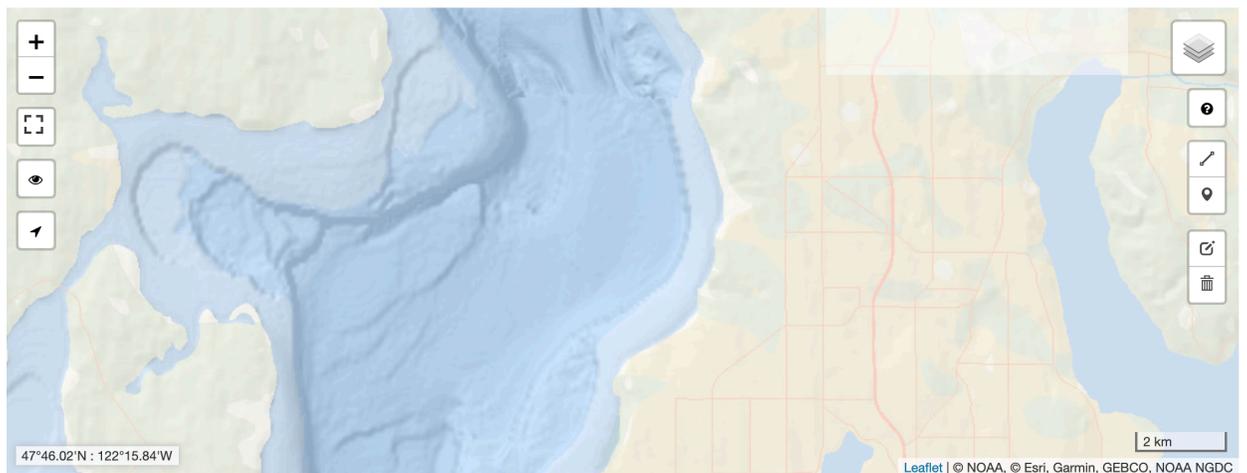
- default
- osu
- vietnam

Next

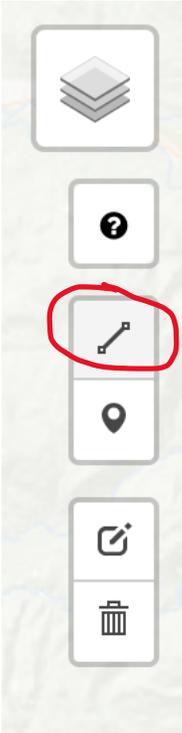
- If you click on “Pan to Glider’s Last Location, it will give a pop-up of which glider to pan to, select the glider, and click “ Apply”. This will take you to a highly zoomed in map centered on the last known glider location:



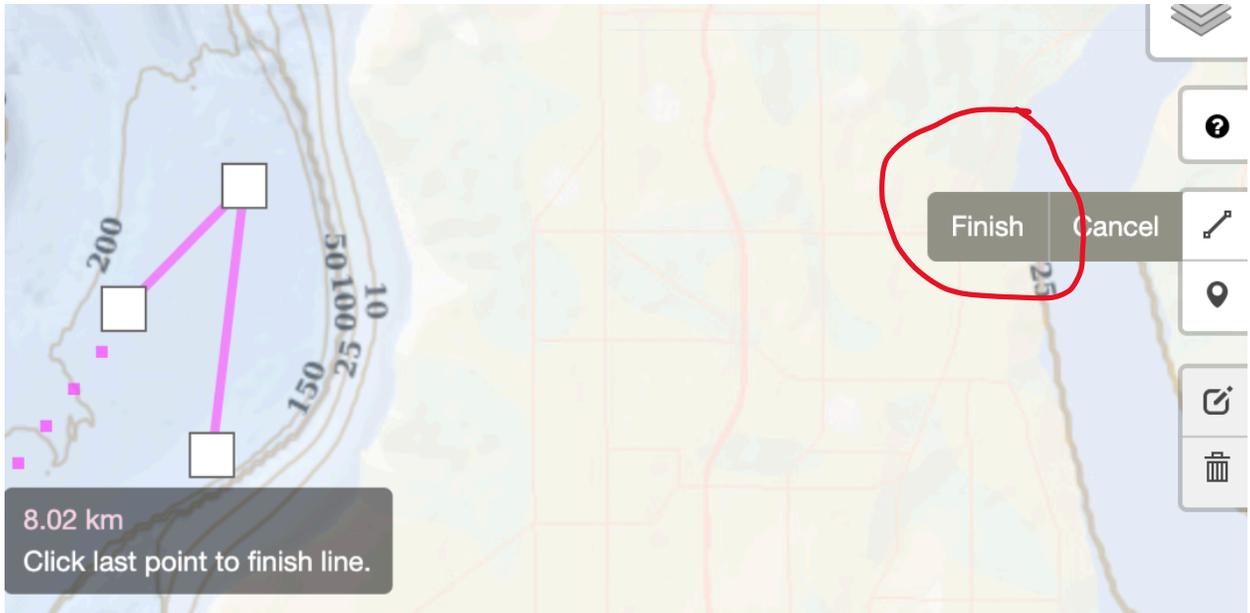
- You can also pan and zoom to the desired map view using the “+” and dragging the map.
- Once you have the mapview, you can select which basemap and layers you want to see by clicking on the mapstack:



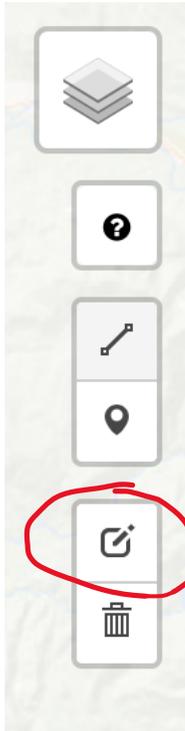
- Once you have your map-view like you want it, click on the “Multi-waypoint” tool:



- Follow the onscreen prompts to make your waypoints. The GPS coordinates are in the lower left corner of the map. Once you are done, double click on the last point or click “Finish.”

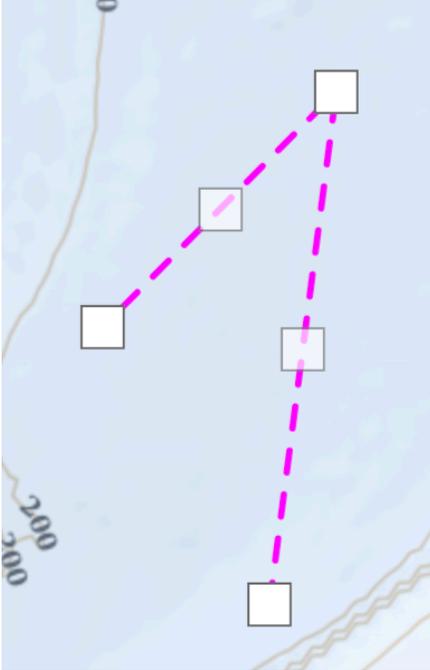


- You can tweak your waypoints by clicking on the “Edit” icon:

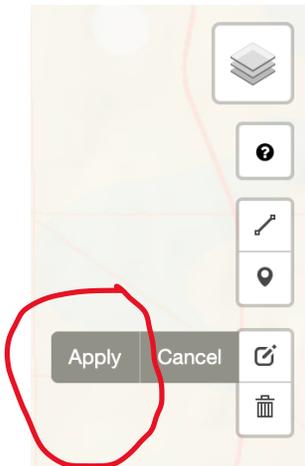


“Edit” icon

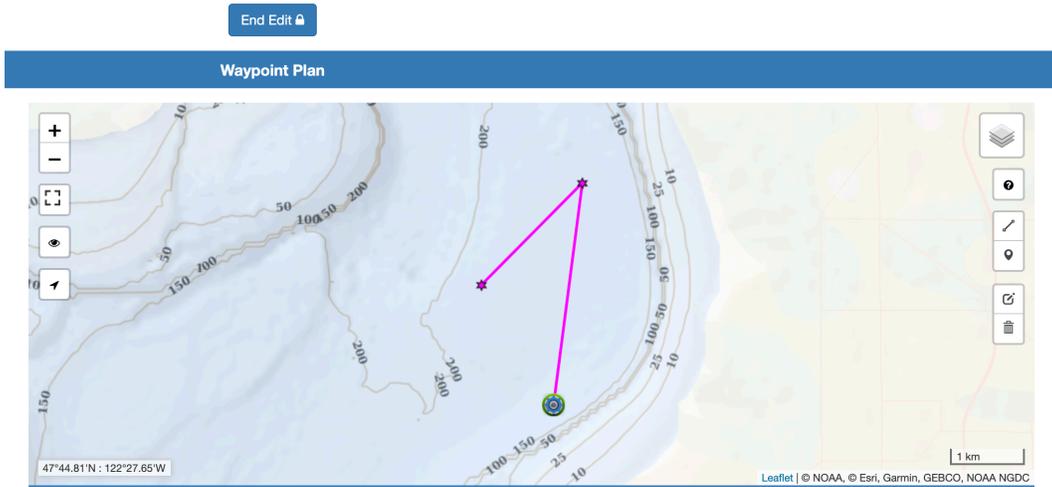
- You will now have solid square boxes at each waypoints and light square boxes between the waypoints. To delete a waypoint, double click on it. To add a waypoint, move one of the light square boxes.



When you are done click on “Apply” near the “Edit” icon:



- When you are done, click “End Edit” :



To change the waypoints:

IT IS VERY IMPORTANT TO FOLLOW PROCESS STEPS IN THIS LIST OR YOUR UPDATES WILL NOT BE UPLOADED TO THE GLIDER! See the section labeled "PROCESS UPDATES!"

- From the Deployments pane of the dashboard window, click on the glider's Options pull down and click on "View Mission Plan."

The screenshot shows the 'Deployments - 1 being watched' section. It displays information for a glider named 'osusim' with a status of 'pocket_sim.xml' and 'Project: N/A'. Key metrics include 'Next Waypoint: Not yet known', 'Last Location: 47°43.28'N 122°24.20'W', 'Connection: Connected for: 00:53 @2019-04-24 20:47:34', and 'VMG/Speed: VMG: - Speed: -'. An 'Options' dropdown menu is open, listing various actions. The 'View Mission Plan' option is highlighted with a red circle.

osusim  	Next Waypoint:	Last Location:	Connection: 	VMG/Speed: 
pocket_sim.xml 	Not yet known	47°43.28'N 122°24.20'W  	 Connected for: 00:53 @2019-04-24 20:47:34	VMG: - Speed: -

Options 

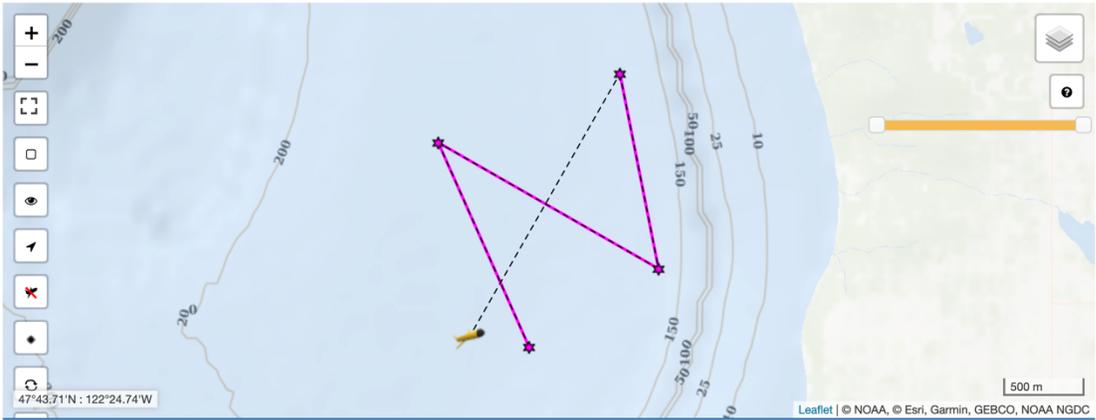
- View Deployment Details
- View Data Visualizations
- View Mission Plan**
- View Event Timeline
- View Log Notes
- Create Log Note
- Configure Project Assignment
- Configure Last Call-in Alert Setting
- Export Glider Commands
- Export Map Events to KMZ
- Access Glider Terminal
- View Glider Details
- Configure Glider Event Subscriptions

- Now click on "Modify Selected Mission Plan:"

Selected Mission Plan: pocket_sim **Modify Selected Mission Plan** Create New Mission Plan

Abort Data Transmission

Waypoint Plan - Includes Events from Last 5 Days



Map showing a mission plan with waypoints and a yellow boat icon. The map includes a scale bar (500 m) and a coordinate display (47°43.71'N : 122°24.74'W). The map shows a yellow boat icon and several purple star waypoints connected by dashed lines. The map also shows a scale bar (500 m) and a coordinate display (47°43.71'N : 122°24.74'W). The map includes a scale bar (500 m) and a coordinate display (47°43.71'N : 122°24.74'W).

Hide unselected deployments

- Click on "Waypoint:"

Slocum Fleet Mission Control ✓ 2019-04-24 22:32:48

Mission Control Configuration History Tools Admin About

Mission Plans / pocket_sim / (Under edit)

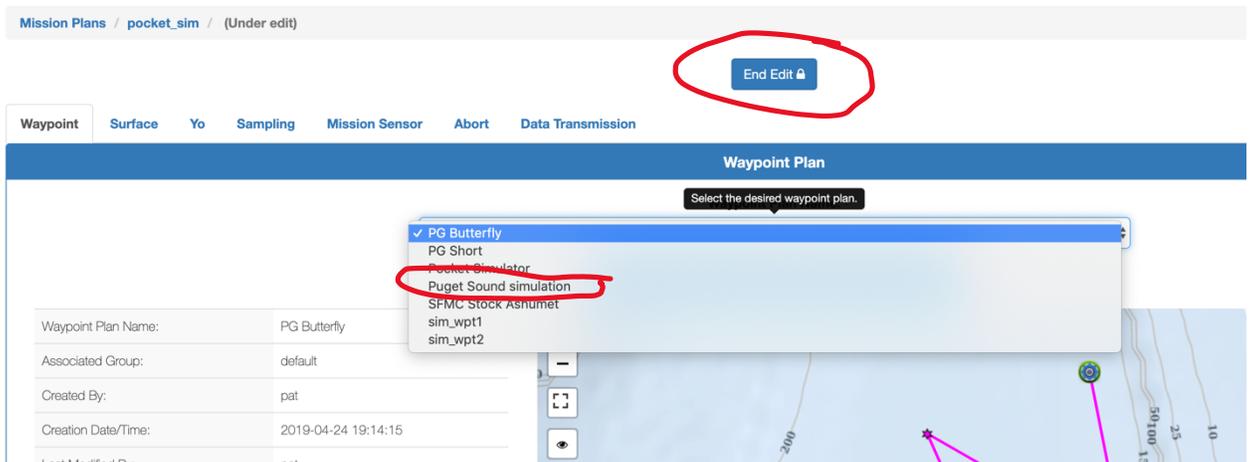
End Edit

Waypoint Surface Yo Sampling Mission Sensor Abort Data Transmission

Yo Plan

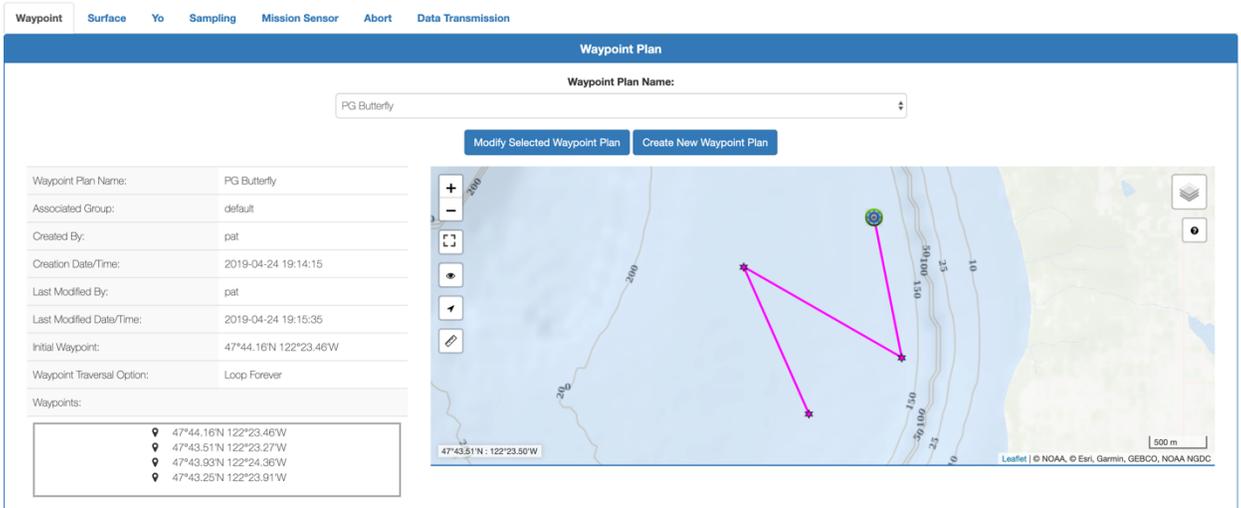
Yo Plan Name:

- To change to an alternative plan, select the alternative plan name and then click “End Edit:”



Remember: you can either select ‘Loop Forever’ or ‘Traverse Once’.

- To modify the current “Waypoint Plan,” click on “Modify Selected Waypoint Plan” and follow the instructions from above on how to edit waypoints. When you are done, click “End Edit.”



- To create a new **“Waypoint Plan,”** click **“Create New Waypoint Plan”** and follow the instructions from above on how to create/edit waypoints. When you are done, click on **“End Edit.”**

Waypoint Surface Yo Sampling Mission Sensor Abort Data Transmission

Waypoint Plan

Waypoint Plan Name: PG Butterfly

Modify Selected Waypoint Plan Create New Waypoint Plan

Waypoint Plan Name:	PG Butterfly
Associated Group:	default
Created By:	pat
Creation Date/Time:	2019-04-24 19:14:15
Last Modified By:	pat
Last Modified Date/Time:	2019-04-24 19:15:35
Initial Waypoint:	47°44.16'N 122°23.46'W
Waypoint Traversal Option:	Loop Forever

Waypoints:

- 47°44.16'N 122°23.46'W
- 47°43.51'N 122°23.27'W
- 47°43.93'N 122°24.36'W
- 47°43.25'N 122°23.91'W

Leaflet | © NOAA, © Esri, Garmin, GEBCO, NOAA NGDC

To change the surfacing interval:

IT IS VERY IMPORTANT TO FOLLOW PROCESS STEPS IN THIS LIST OR YOUR UPDATES WILL NOT BE UPLOADED TO THE GLIDER! See the section labeled "PROCESS UPDATES!"

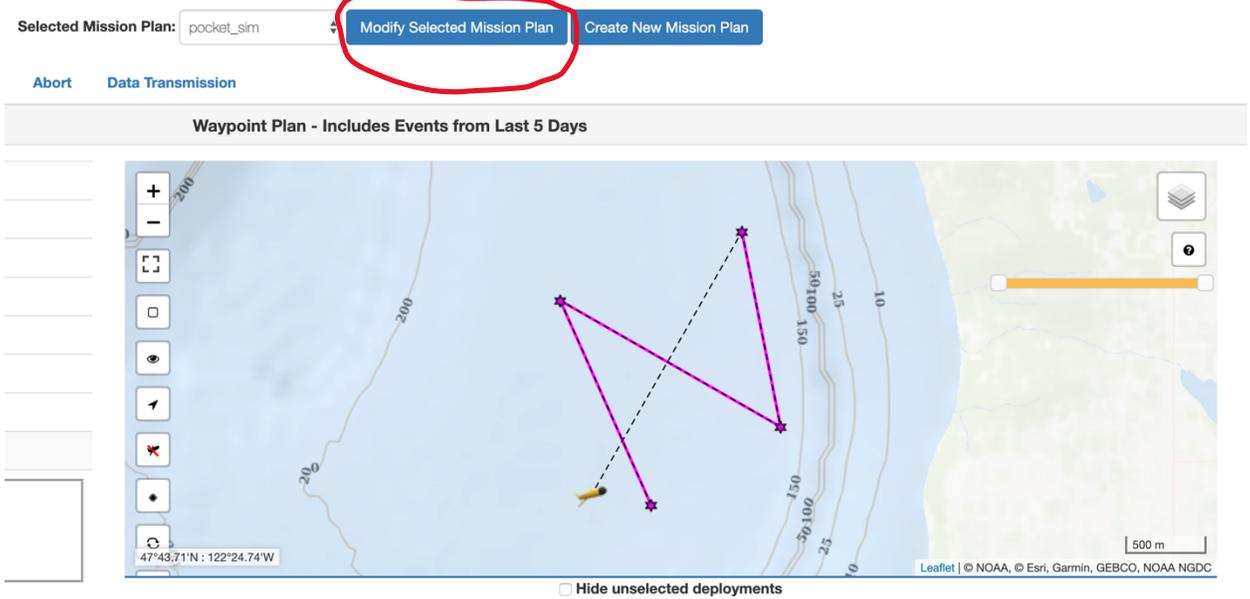
- From the Deployments pane of the dashboard window, click on the glider's Options pull down and click on "View Mission Plan."

The screenshot displays the 'Deployments - 1 being watched' section. It shows details for a deployment named 'osusim' with a file 'pocket_sim.xml' and 'Project: N/A'. Key metrics include 'Next Waypoint: Not yet known', 'Last Location: 47°43.28'N 122°24.20'W', 'Connection: Connected for: 00:53 @2019-04-24 20:47:34', and 'VMG/Speed: VMG: - Speed: -'. An 'Options' dropdown menu is open, listing various actions. The 'View Mission Plan' option is highlighted with a red circle.

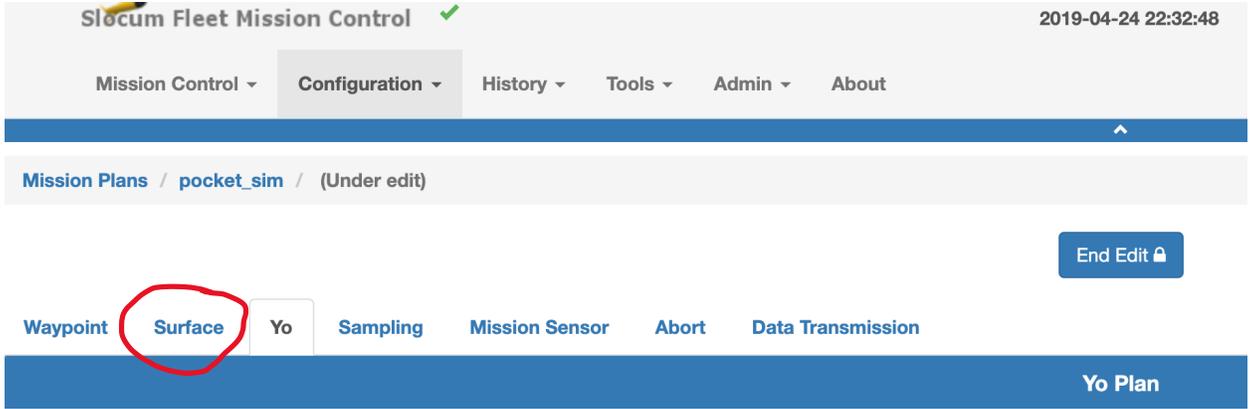
Deployment Name	Next Waypoint	Last Location	Connection	VMG/Speed
osusim pocket_sim.xml Project: N/A	Not yet known	47°43.28'N 122°24.20'W	Connected for: 00:53 @2019-04-24 20:47:34	VMG: - Speed: -

- View Deployment Details
- View Data Visualizations
- View Mission Plan**
- View Event Timeline
- View Log Notes
- Create Log Note
- Configure Project Assignment
- Configure Last Call-in Alert Setting
- Export Glider Commands
- Export Map Events to KMZ
- Access Glider Terminal
- View Glider Details
- Configure Glider Event Subscriptions

- Now click on “Modify Selected Mission Plan:”



- Click on “Surface:”



Yo Plan Name:

- Under “Surface Plan” select the one interested

Slocum Fleet Mission Control ✓ 2019-05-03 21:11:26 nilza Refresh

Mission Control Configuration History Tools About

Mission Plans / nilza / (Under edit)

Successfully associated waypoint plan probar with mission plan nilza. ✕

End Edit 🔒

Waypoint Surface Yo Sampling Mission Sensor Abort Data Transmission

Surface Plan

Select the desired surface plan.

✓ 15 minute surfacing
1 hour surfacing
2 hour surfacing
probar
test_ian

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- “End Edit”

Mission Plans / pocket_sim / (Under edit)

End Edit 🔒

Waypoint Surface Yo Sampling Mission Sensor Abort Data Transmission

Surface Plan

Select the desired surface plan.

✓ 15 minute surfacing
1 hour surfacing
probar
SFMC Stock Ashumet

Surface Plan Name: 15 minute surfacing

- After “End Edit”, your ‘surfac’ file is ready to be processed.

Mission Plans / nilza / (Under edit)

Successfully associated waypoint plan probar with mission plan nilza. ✕

End Edit

Waypoint Surface Yo Sampling Mission Sensor Abort Data Transmission

Surface Plan

Select the desired surface plan.

✓ 15 minute surfacing
 1 hour surfacing
 2 hour surfacing
 probar
 test_plan



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Successfully associated surface plan 15 minute surfacing with mission plan nilza. ✕

End Edit

Waypoint Surface Yo Sampling Mission Sensor Abort Data Transmission

Surface Plan

Surface Plan Name:

15 minute surfacing

Modify Selected Surface Plan
Create New Surface Plan

Surface Plan Name:	15 minute surfacing
Associated Group:	default
Created By:	pat
Creation Date/Time:	2019-05-02 18:13:47
Last Modified By:	pat
Last Modified Date/Time:	2019-05-02 18:13:53
Enabled Surfacing Rules:	

Surface When No Comms After 43200 Seconds (12.0 Hours), End Action: Wait for Ctrl-C Quit/Resume

**PROCESS UPDATES:
YOU MUST DO THE FOLLOWING STEPS FOR YOUR
CHANGES TO BE SENT TO THE GLIDER!**

- From the Deployments pane of the dashboard window, click on the glider's Options pull down and click on "View Mission Plan."

The screenshot shows the 'Deployments - 1 being watched' section. It displays details for a deployment named 'osusim' with a status of 'pocket_sim.xml' and 'Project: N/A'. Key information includes 'Next Waypoint: Not yet known', 'Last Location: 47°43.28'N 122°24.20'W', and 'Connection: Connected for: 00:53 @2019-04-24 20:47:34'. The 'VMG/Speed' is shown as '-'. An 'Options' dropdown menu is open, listing various actions. The 'View Mission Plan' option is highlighted with a red circle.

- You should now see a "yellowish" bar saying "Missing plan updates have been made..." click the process button. This does a sanity check on the updates. If there are any problems you must fix them before you can proceed.

The screenshot shows the 'Mission Plan' page. At the top, there is a breadcrumb trail: 'Active Deployments / osusim-2019-04-24T18:23 / Options / Mission Plan'. Below this, there are navigation buttons for 'Shortcuts', 'Mission Plan', and 'Deployment Summary'. A yellow notification bar at the top of the main content area contains the text: 'Mission plan updates have been made and are ready to be processed. Ensure glider configuration provided matches what is actual.' A 'Process' button is circled in red. Below the notification bar, there is a 'Selected Mission Plan' dropdown set to 'pocket_sim', with buttons for 'Modify Selected Mission Plan' and 'Create New Mission Plan'. At the bottom, there are tabs for 'Waypoint', 'Surface', 'Yb', 'Samplinn', 'Mission Sensor', 'Ahorf', and 'Data Transmission'.

- Now make sure the “File Number” is 30 and then click on “Generate Files:”

All mission plan parts are valid.

Mission File Name: File Number:

This then generate a popup of the files to be downloaded to the glider, if you are happy with this list, click on “Generate:”

2019-04-24 23:08:18

Generate Mission Files Form

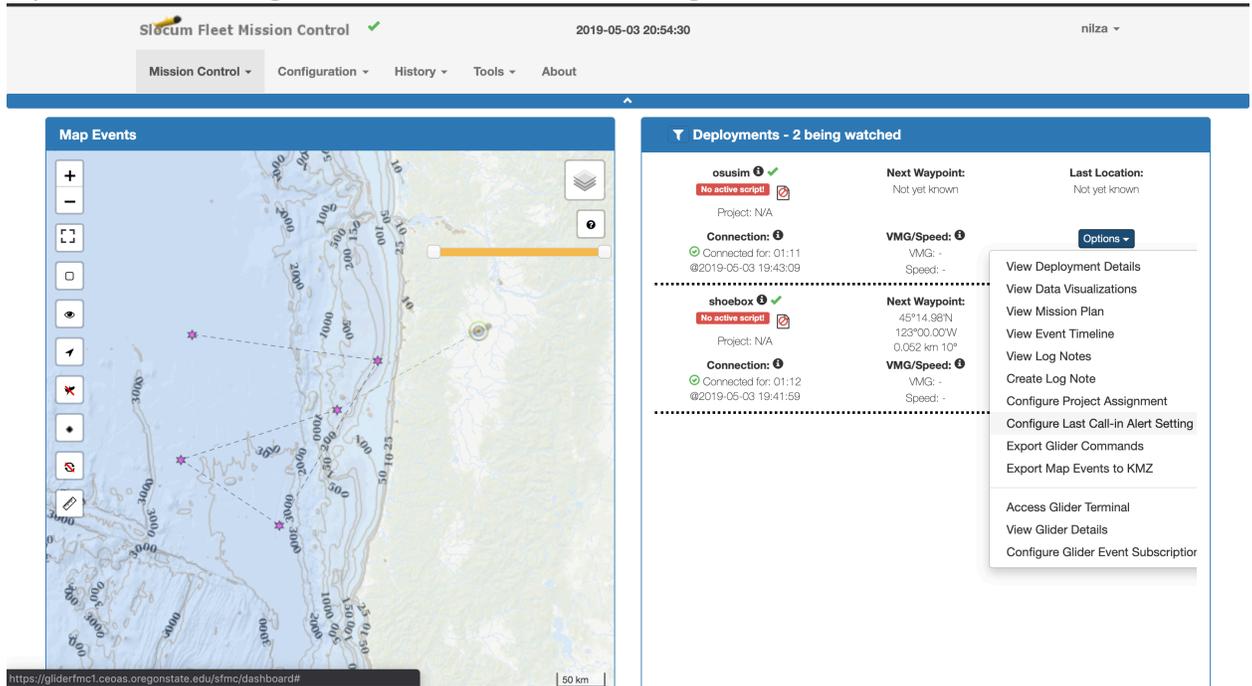
Files required to be generated cannot be unchecked. All other files can be optionally generated.

- pocket.mi
- goto_l30.ma
- yo30.ma
- surfac30.ma
- surfac31.ma
- sample30.ma
- sbdlist.dat
- tbdlist.dat

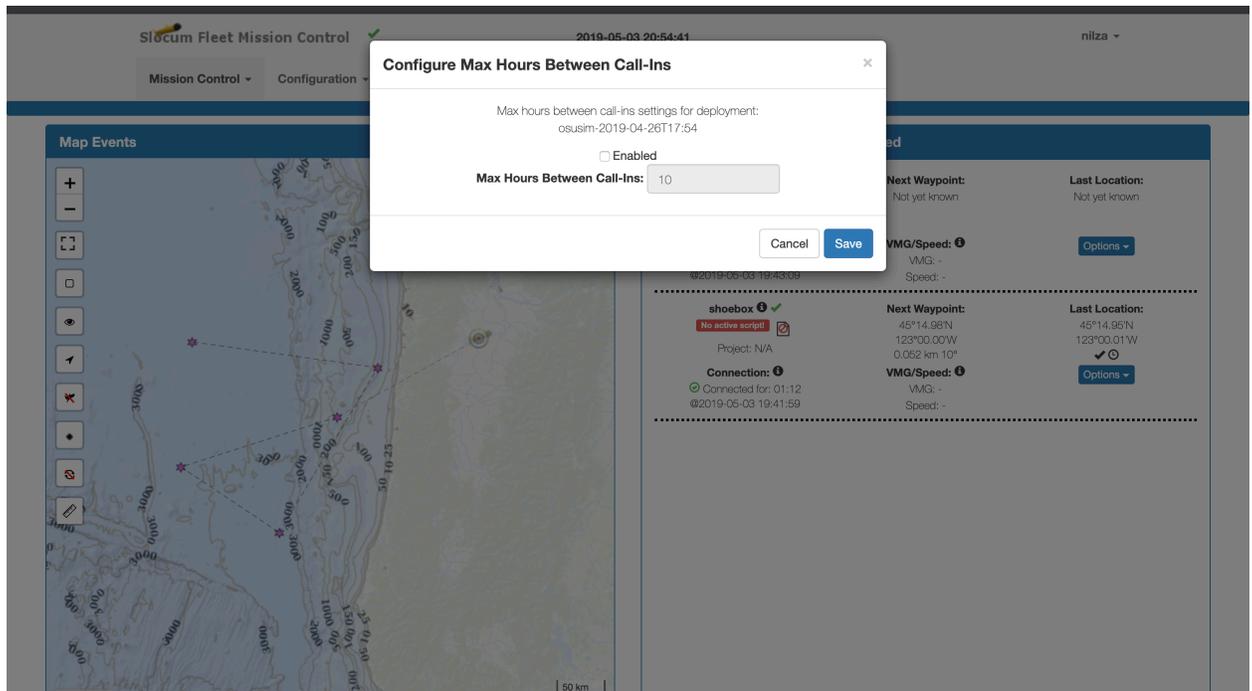
Once the files are generated, you can see them in the “Glider Terminal” in the “to-glider” section. The next time the glider calls in the files will be uploaded to the glider and dated version placed in the archive section.

Setting-up calls

- Options → 'Configure Last Call-in Alert Setting'



- Type in the time and select the 'Enable' box



You can also visualize your data, time-line, and create log notes:

The screenshot displays the Slocum Fleet Mission Control web application. At the top, the header includes the application name "Slocum Fleet Mission Control" with a green checkmark, the date and time "2019-05-03 21:24:37", and a user profile "nilza" with a dropdown arrow. Below the header is a navigation bar with tabs for "Mission Control", "Configuration", "History", "Tools", and "About", along with a "Refresh" button.

The main content area shows the "Active Deployments" section for "osusim-2019-04-26T17:54" under the "Options" menu, specifically the "Mission Plan" view. A dropdown menu is open, listing several actions: "View Data Visualizations", "View Event Timeline", "View Log Notes", "Create Log Note", "Configure Project Assignment", "Configure Last Call-in Alert Setting", "Export Map Events to KMZ", "Access Glider Terminal", "View Glider Details", and "Configure Glider Event Subscriptions".

Below the menu, a red error message states: "and glider configuration is not known. Cannot process mission." Below this, there are buttons for "Modify Selected Mission Plan" and "Create New Mission Plan".

The "Waypoint" section is active, showing a "Waypoint Plan - Includes Events from Last 5 Days". On the left, a table provides details for the waypoint plan:

Waypoint Plan Name:	nilza
Created By:	probar
Creation Date/Time:	2019-05-03 20:18:25
Last Modified By:	N/A
Last Modified Date/Time:	N/A

On the right, a map shows a flight path with waypoints marked by purple stars. The map includes standard navigation controls like zoom in (+), zoom out (-), full screen, and a scale bar.

At the bottom left, a terminal window shows the URL: `://gliderfmc1.ceoas.oregonstate.edu/sfmc/glider-terminal/osusim`