



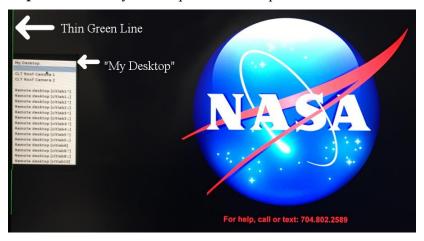
Quick Reference Guide Surface Trajectory Base Operations (STBO) Client Observer Mode

This document describes the STBO Client Observer Mode and is meant to be a quick reference guide. The STBO Client Observer Mode User Manual and other training materials are available for detailed user instructions.

For help, call or text: 704.802.2589

1 Getting Started

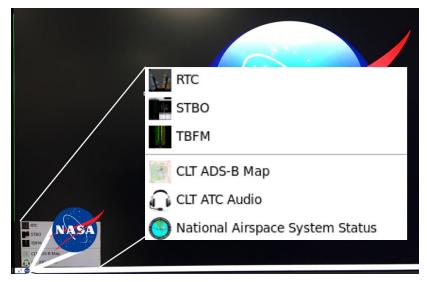
Step 1: Hover over the green bar to populate the menu. *Step 2*: Select "My Desktop" from the top of the menu.



Step 3: Click on the NASA icon on the bottom left corner (the start menu).

Step 4: Select the option for the "STBO".

Step 5: Wait for the STBO Client to load. This may take a few minutes.



ATD2_1029b_v1.1_STBO_Obs

2 Load or Save a Display Configuration

To Save a New Display Configuration:

Step 1: Click on the "Settings" button on the STBO Client Toolbar.



Step 2: Type a name for the display configuration in the "File Name:" text box.

Step 3: Click the "Save" button.

Step 4: Click "OK" in the "Save Settings" confirmation window.

🛃 💿 Settings		0	
Load/Save Settings	Gate Conflicts	Map Clock	
Available Configur	ations		
GroundEast_north.scf			•
GroundEast_south.scf			222
GroundWest_north.scf			
GroundWest_south.scf	1		
RampEast.scf			
RampNorth.scf			
RampSouth.scf			1996
RampWest.scf			
TmcTwoTables.scf			
TowerEast_north.scf			
TowerEast_south.scf			•
File Name:			
Load Save			
	Close		

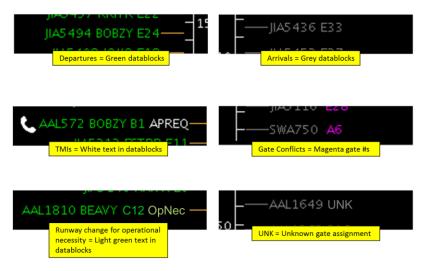
To Load an Existing Display Configuration:

Step 1: Locate and select the display configuration name under the "Available Configurations" list.

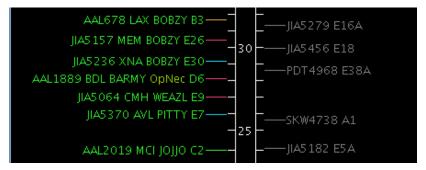
Step 2: Click the "Load" button. The STBO Client will reload the interface to match the selected display configuration.

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3 Timeline Elements



Leader Lines:



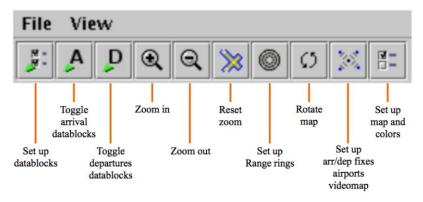
Orange: Untracked departure flights that are scheduled but have not yet pushed off the gate

- **Dark Pink**: Untracked departure flights that have pushed back from the gate
- Blue: Tracked departure flights that are still in the Ramp area
- Green: Tracked departure flights that are in the Airport Movement Area
- **Grey**: Arrival flights

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4 Map

Map Toolbar Buttons:



Map Menus:



The "File" menu provides a quick way to shut down the STBO Client.

The key feature of the "View" menu is "Show Toolbar". This is

a fast way to find the STBO

Client Toolbar when it is hidden



X

Help About

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behind other windows or closed. The "Help" menu provides access to the software version (About), or the quick keys for the

Flights Table Help Flights Table (Flights Table Help), Map (Map Help), or **Timeline Help** Timeline (Timeline Help). _

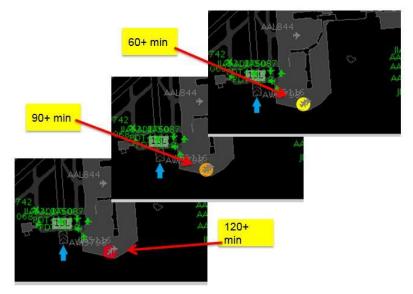
ATD2 1029b v1.1 STBO Obs

Map Help

Tarmac Rule / Long On Board:

Tarmac Rule / Long On Board (LOB) information is displayed on the Map.

LOB is depicted using a colored disc that surrounds the aircraft icon. LOB timer starts from the flight's pushback from the gate for departure flights or from the moment wheels touch down for arrival flights.



Disc Colors

- **Yellow**: 60 89 minutes
- **Orange**: 90 119 minutes
- **Red**: 120+ minutes

5 Flights Table

Flights Table Toolbar Buttons:



Filtering Data:

Note that when filtering data, multiple items can be selected and/or added to the list in the "Value" text box. When adding multiple values for the same "Field", enter all values in the same "Value" text box. STBO Client cannot process multiple lines of the same field.

	Field	Operator	Values		
	Runway 🗸	= 🔻 23,5		36C 🔻	Clear
AND 🔻					

Search Feature:

The search feature provides the ability to search for flight numbers, callsigns, destination airports, or departure fixes across the STBO Client interface. The matching flights will be highlighted on the Timeline, the Map, and in the Flights Table.

There is no need to press the search button; the STBO Client will automatically start searching as soon as a single characeter is typed.

6 Toolbar

Toolbar Icons:

Runway Utilization icon = current airport configuration and runway utilization. Set by ATC.

window laxi List settings	Search	Clear
		Ramp

Ramp Closure icon = Current Ramp status. Set by Ramp.

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TM Actions	Create	Show Window	Setti		Searc
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💿 Operationa	l STBO Toolbar				9 (
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Notifications:

New notifications are displayed on the STBO Client Toolbar.

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TM Actions	Create	Show Window	Taxi List	Settings	Search	Clear
NEW 12 NO N	METERING 0030		N_Normal			Rar

Notification Icon Notification Banner

The number on the notification icon indicates the total number of new/unacknowledged notifications.

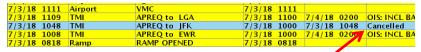
The notification banner cycles through all new/unacknowledged notifications.

Click on the notification banner to display all notifications since 0400 of the current day.

1/2/18 1300 TMI APRC to DCA 7/3/18 1300 7/4/18 0200 05% INCL BARMY KILNS 7/318 1301 TMI APRC to DAH 7/3/18 1030 7/3/18 1230 Expired 7/318 1111 Airport North 7/3/18 1111 Expired 7/318 1111 Airport Normal 7/3/18 1111 7/318 1111 Airport NC 7/3/18 1110	Reported	Event Type	Description	Event Start	Event End	Details	
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Image: Normal 7/3/18 1030 7/3/18 1230 Expired //318 111 Airport Normal 7/3/18 1111 //318 1111 Airport Normal 7/3/18 1111 //318 1111 Airport Normal 7/3/18 1111 //318 1111 Airport Normal 7/3/18 1111 //318 1111 Airport VMC 7/3/18 1100 7/4/18 020 015: INCL BARMY KILNS //318 1018 TMI APREQ to LCA 7/3/18 1000 7/4/18 0200 015: INCL BARMY KILNS //318 0818 Ramp RAMP OFENED 7/3/18 1000 7/4/18 0200 015: INCL BARMY KILNS //318 0818 Metering Mode NO METRING 7/3/18 030 //318 0818 Airport South_Conv 7/3/18 030 <t< td=""><td>/3/18 13</td><td>5 TMI</td><td>APREQ to ORD</td><td>7/3/18 1100</td><td>7/3/18 1315</td><td>Expired</td><td></td></t<>	/3/18 13	5 TMI	APREQ to ORD	7/3/18 1100	7/3/18 1315	Expired	
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Click on the notification icon or on any row in the notification window to acknowledge all notifications.

Any cancelled notifications have a row highlighted in blue.



Cancellation

7 APREQ Flights



Lightning bolt symbol = electronic APREQ coordination is available.

Telephone symbol = verbal Call for Release coordination is required.

Displaying the slots in the overhead stream is only available for flights capable of electronic APREQ coordination.



Green Slot = available slot in the overhead traffic stream.

Red Slot = unavailable slot in the overhead traffic stream.



EDCT compliance window (-5/+5 minutes) is overlaid on the Timeline when a flight has an EDCT release time.



Yellow arrow symbol = Request for APREQ release time has been sent to TBFM/IDAC.



Yellow diamond symbol = Different release time than what was requested was returned from TBFM/IDAC.

Compliance Indicators:

Each APREQ and EDCT release time is highlighted by its own compliance indicator



Green = on time / inside of compliance window

Yellow = outside of compliance window and *early*

Red = outside of compliance window and *late*