

Meeting Announcement

Technical Working Group

WEDNESDAY, SEPTEMBER 4, 2024 3:30 p.m. – 5:00 p.m. *VIA HYBRID ACCESS*

Foster City Council Chambers Conference Room 620 Foster City Blvd., Foster City, CA 94404

Public may also join the webinar: https://smcgov.zoom.us/j/83795058060
Or Dial-in:

US: +(669) 444 - 9171 Webinar ID: 837 9505 8060

This meeting of the Technical Working Group (TWG) will be in person at the above-mentioned address. Members of the public will be able to participate in the meeting remotely via the Zoom platform or in person at 620 Foster City Boulevard, Foster City, CA 94404. For information regarding how to participate in the meeting, either in person or remotely, please refer to the instructions at the end of the agenda.

HYBRID PUBLIC PARTICIPATION:

List of attendees (using zoom sign-in credentials) will be displayed periodically throughout the meeting.

The TWG Subcommittee meeting may be accessed through the above-mentioned Zoom webinar. Members of the public may also attend this meeting physically in the Foster City Council Chambers Conference Room at 620 Foster City Blvd. Foster City, CA 94404.

- *Written public comments can be emailed to SFORoundtable@smcgov.org and should include the specific agenda item to which you are commenting.
- *Spoken public comments will also be accepted during the meeting in-person or via Zoom on Items NOT on the Agenda and for each Agenda Item at the option of the speaker.

ADA Requests

Individuals who require special assistance or a disability-related modification or accommodation to participate in this meeting, or who have a disability and wish to request an alternative format for the agenda packet or other writings that may be distributed at the meeting, should contact SFO Roundtable Staff at SFORoundtable@smcgov.org as early as possible but no later than 10:00 am the day before the meeting at Notification in advance of the meeting will enable Staff to make reasonable arrangements to ensure accessibility to this meeting, the materials related to it, and your ability to comment.

^{**}Please see instructions for written and spoken comments at the end of this agenda.

AGENDA

Call to Order

Public Comment on Items NOT on the Agenda

- Select Nighttime (10pm-7am) Flight Procedures and Flight Tracks: SFO SSTIK Departures and SFO Runways 28L and 28R Approaches
 - a. Introduction and Overview

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Sam Hindi, SFO Roundtable TWG Chair Kathleen Wentworth, SFO Roundtable Coordinator Attachment: Overview of Select Flight Paths for SFO Runways **28L** and **28R** Approaches & SFO **SSTIK** Departures

- b. SFO Noise Office Flight Data Collection Demonstration Using ANOMS and Gates Bert Ganoung, SFO Aircraft Noise Office Manager
- c. Flight Data Analysis

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Eugene Reindel, HMMH, Technical Consultant to the Roundtable
Jason Stoddard, HMMH Airspace Analyst
Attachment: HMMH Select Nighttime (10pm-7am) Flight Procedures and Flight Tracks: SFO SSTIK
Departures and SFO Runway 28L and 28R Approaches

d. Discussion and Next Steps

Sam Hindi, SFO Roundtable TWG Chair

2. Adjourn

**Instructions for Public Comment during Videoconference Meeting

During the TWG Subcommittee hybrid meeting, members of the public may address the Membership as follows:

Written Comments:

Written public comments may be emailed in advance of the meeting. Please read the following instructions carefully:

- 1. Your written comment should be emailed to SFORoundtable@smcgov.org
- 2. Your email should include the specific agenda item on which you are commenting.
- 3. Members of the public are limited to one comment per agenda item.
- 4. The length of the emailed comment should be commensurate with two minutes customarily allowed for verbal comments, which is approximately 250-300 words.
- 5. If your emailed comment is received by 5:00 pm on the day before the meeting, it will be provided to the Roundtable and made publicly available on the agenda website under the specific item to which comment pertains. The Roundtable will make every effort to read emails received after that time but cannot guarantee such emails will be read during the meeting, although such emails will still be included in the administrative record.

Spoken Comments:

In-person Participation:

1. If you wish to speak to the Membership, please fill out a speaker's slip located at the entrance. If you have anything you wish distributed to the Membership and included in the official record, please hand it to the Clerk who will distribute the information to the Membership and Staff.

Via Teleconference (Zoom):

- 1. The TWG Subcommittee meeting may be accessed through Zoom online at https://smcgov.zoom.us/j/83795058060 Webinar ID: 837 9505 8060. The meeting may also be accessed via telephone by dialing in +(669) 444 9171, entering webinar then press #.
- 2. Members of the public can also attend this meeting physically in the Foster City Council Chambers Conference Room at 620 Foster City Blvd, Foster City, CA 94404.
- 3. You may download the Zoom client or connect to the meeting using the internet browser. If you are using your browser, make sure you are using current, up-to-date browser: Chrome 30+, Firefox 27+, Microsoft Edge 12+, Safari 7+. Certain functionality may be disabled in older browsers including Internet Explorer.
- 4. You will be asked to enter an email address and name. We request that you identify yourself by name as this will be visible online and will be used to notify you that it is your turn to speak.
- 5. When the Chairperson calls for the item on which you wish you speak click on "raise-hand" icon. You will then be called on and unmuted to speak.

*Additional Information:

For any questions or concerns regarding Zoom, including troubleshooting, privacy, or security settings, please contact Zoom directly.



SFO Roundtable -- Technical Working Group Meetings

Foster City Council Chambers Conference Room 620 Civic Center Drive, Foster City

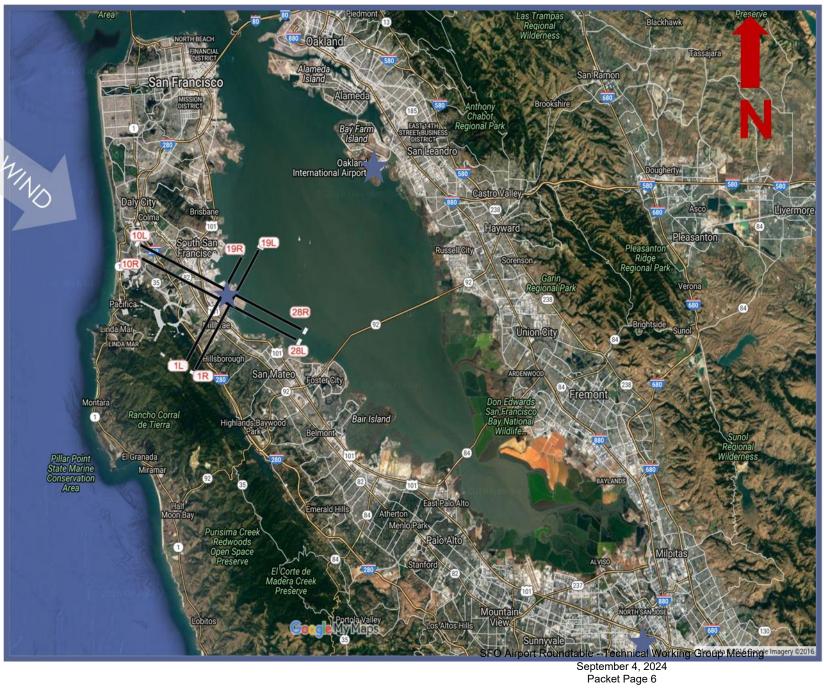


PARKING: 1. Parking in front of City Hall

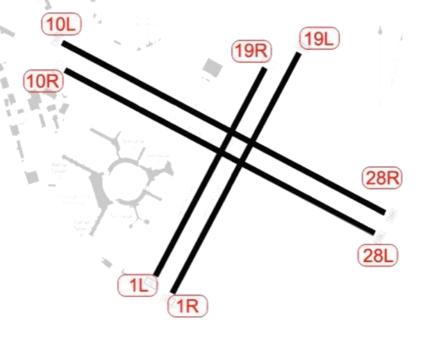
2. Parking in adjacent parking lot

<u>ENTRANCE</u>: Main entrance will be locked. Follow signs to a secondary entrance to the right of the main entrance.

OVERVIEW OF SELECT SFO RUNWAYS **28L** AND **28R** APPROACHES & SFO **SSTIK** DEPARTURES

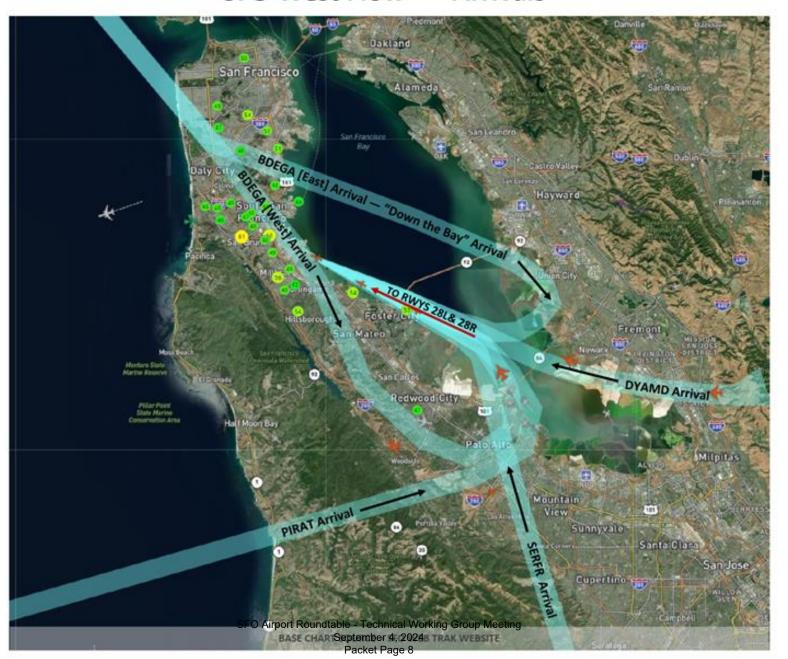


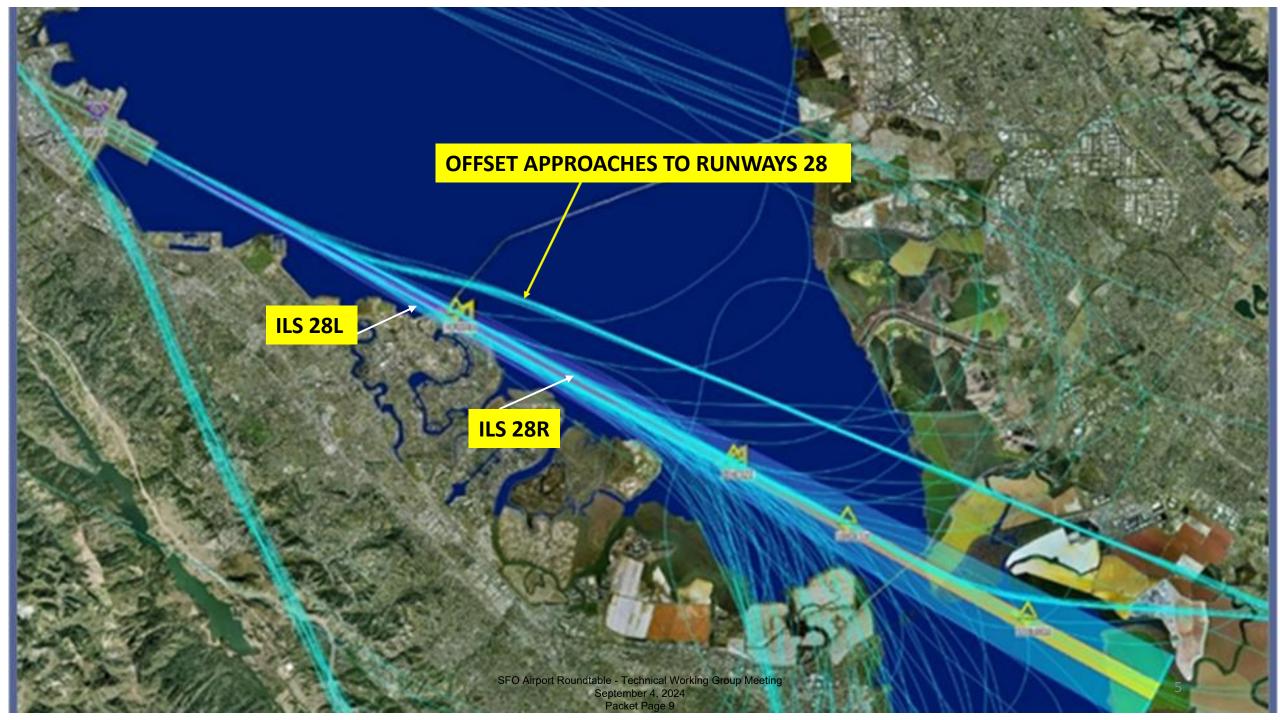
SFO Runway Map



SFO RUNWAYS **28L** AND **28R** ARRIVALS AND APPROACHES

SFO West Flow — Arrivals





SFO Airport Director's Report

Runway Usage and Nighttime Operations



Leftmost Runway Utilization table shows percent of runway usage for arrivals and departures by runway based on air carrier operations using jet, regional jet, and turboprop aircraft. Late Night Preferential Runway Use table depicts departure runway usage between 1am - 6am for jet aircraft for the whole month (top) and during nighttime hours only (bottom). Percentages [%] are rounded to the nearest whole number.

Runway Utilization

	Arrivals	Departures
01 L/R		18% 2,802
10 L/R		0% 4
28 L/R	100% 15,601	82% 12,901



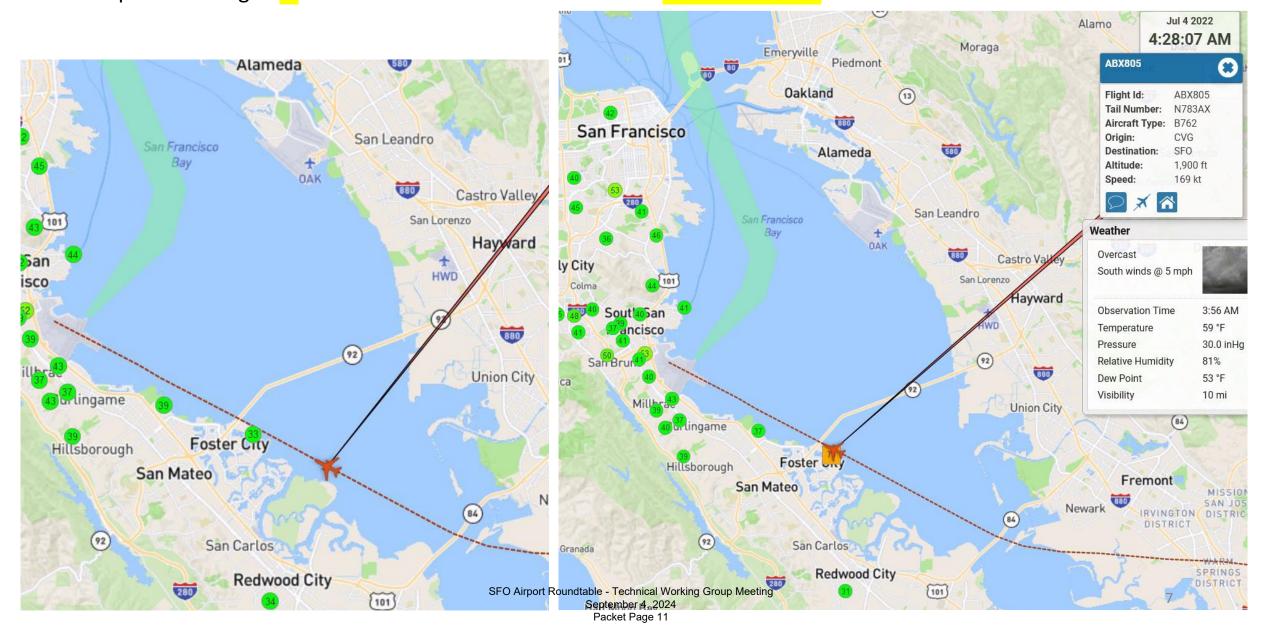


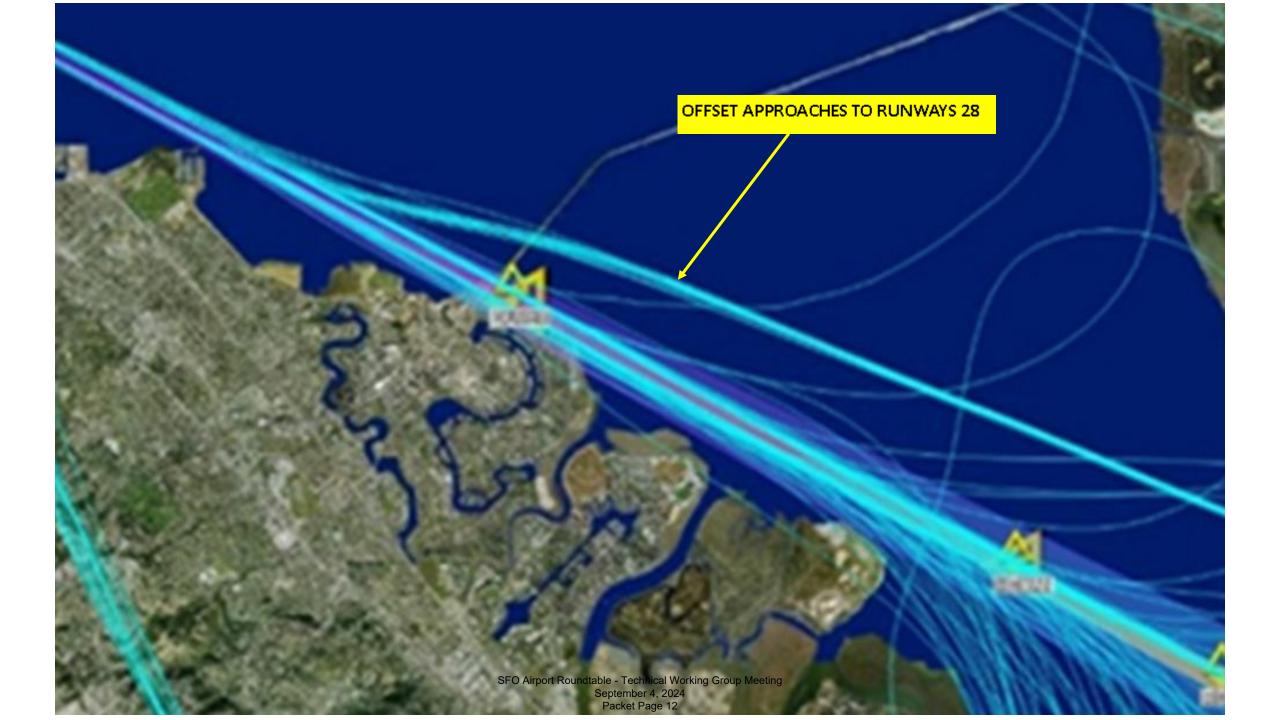
Packet Page 10



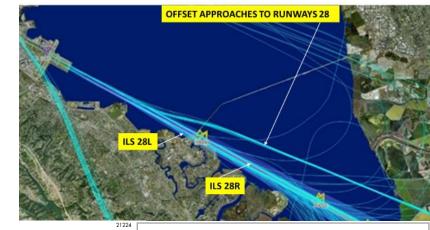
FOSTER CITY NOISE MONITOR @ 4:28am

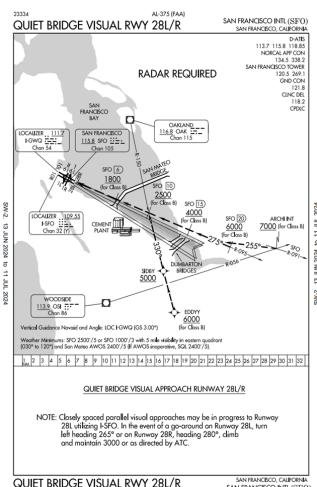
-B767 airplane landing 28R - causes noise monitor increase from 33dBA to 71dBA

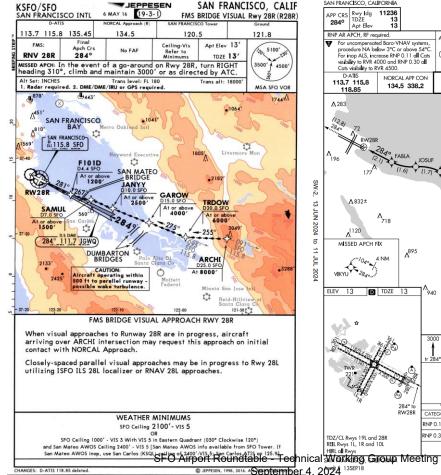


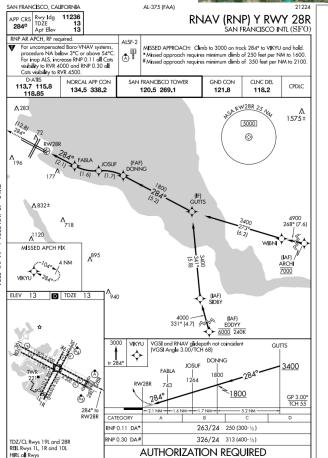


Examples of OFFSET Published Approaches to Runways 28L/R









SAN FRANCISCO INTL (SFO)

RNAV (RNP) Y RWY 28R

FUTURE

Runway 28L/R **GBAS OFFSET**

Approaches

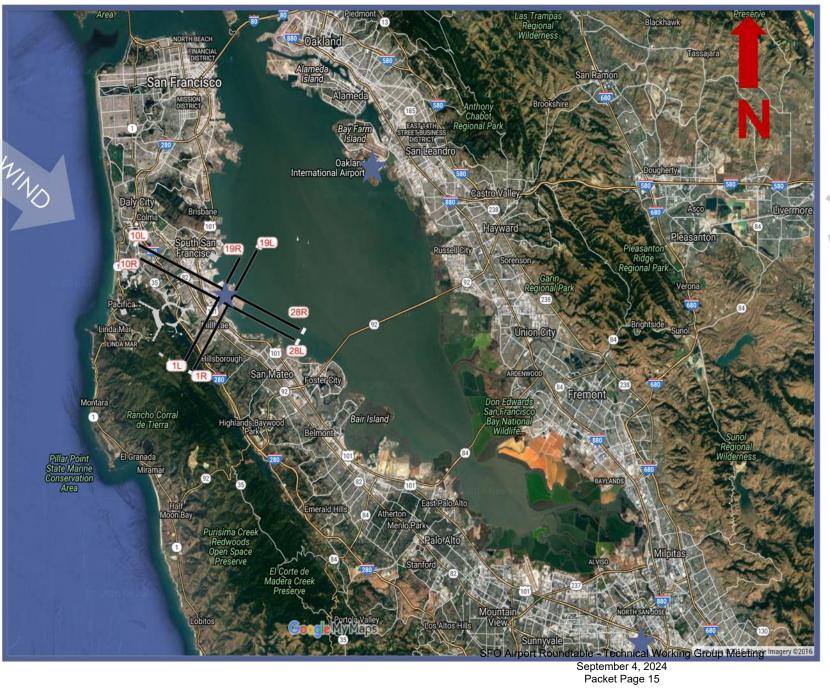
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SAN FRANCISCO, CALIFORNIA SAN FRANCISCO INTL (SFO)

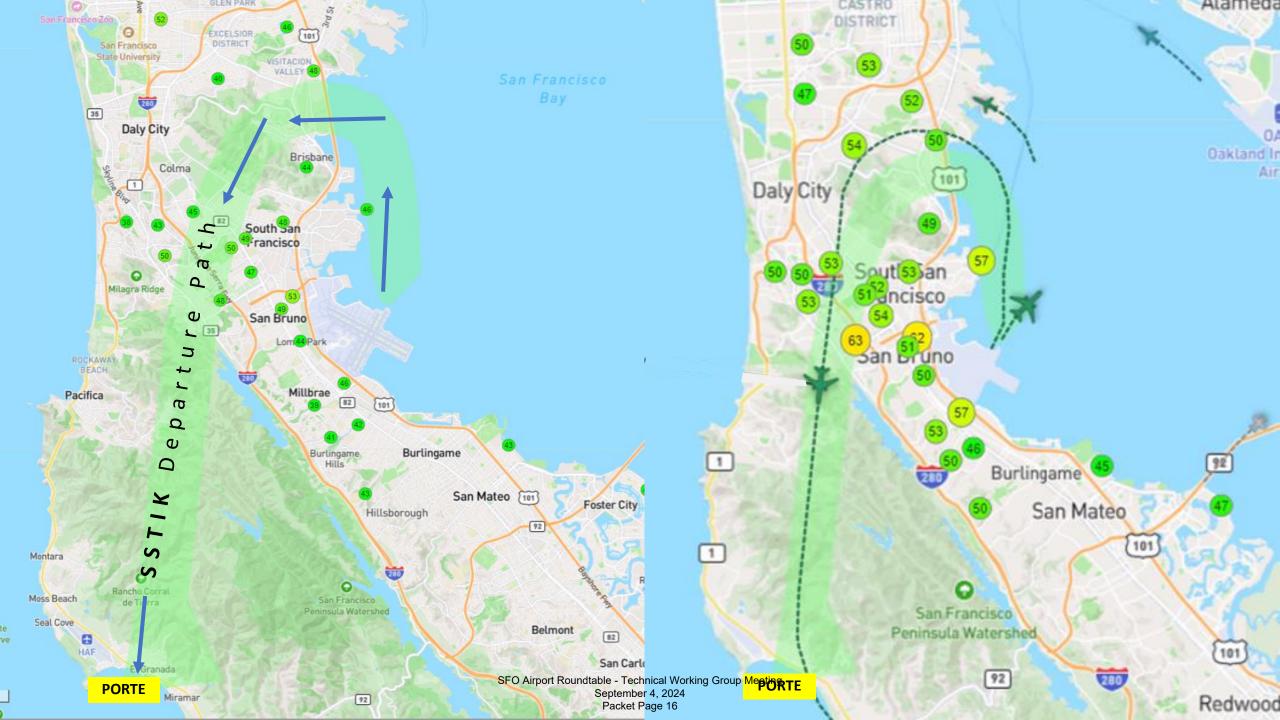
Amdt 12 08NOV18

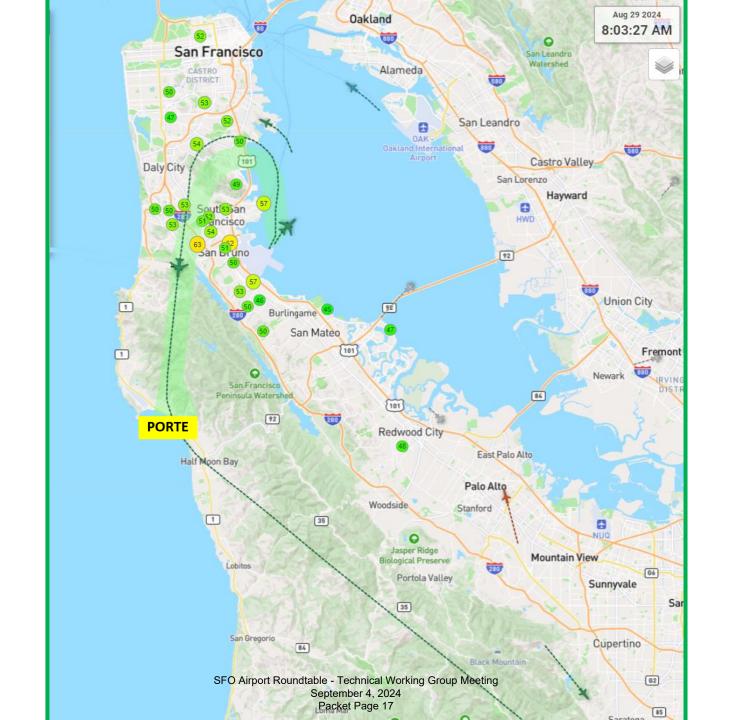
Packet Page 13

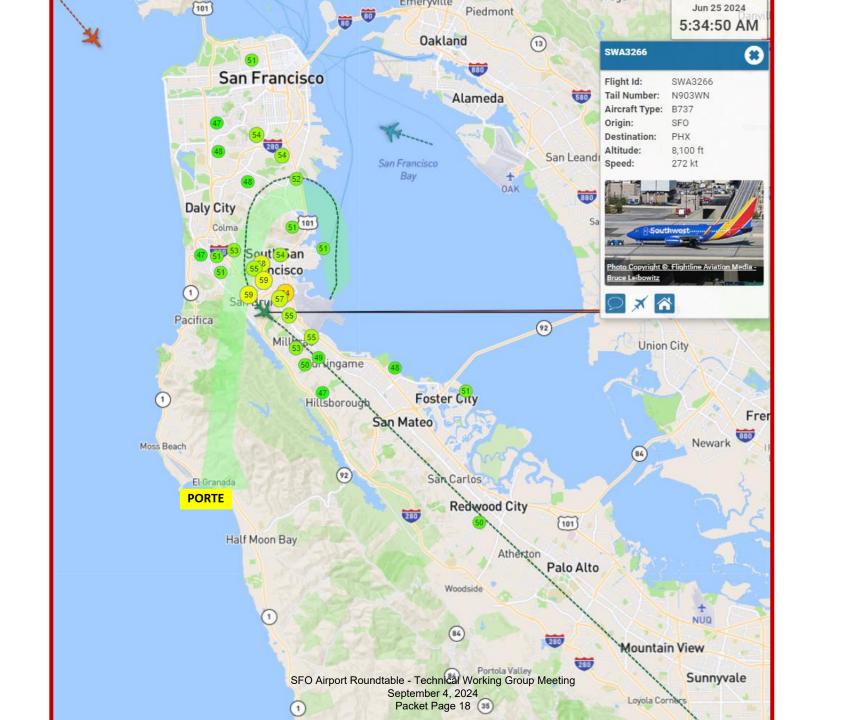
SFO **SSTIK** DEPARTURE FROM RUNWAYS 1L & 1R

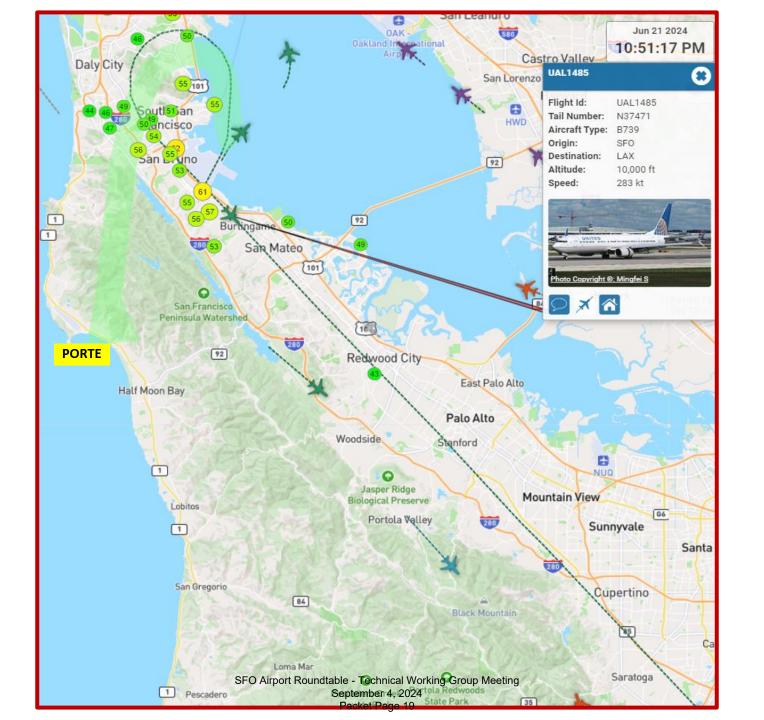


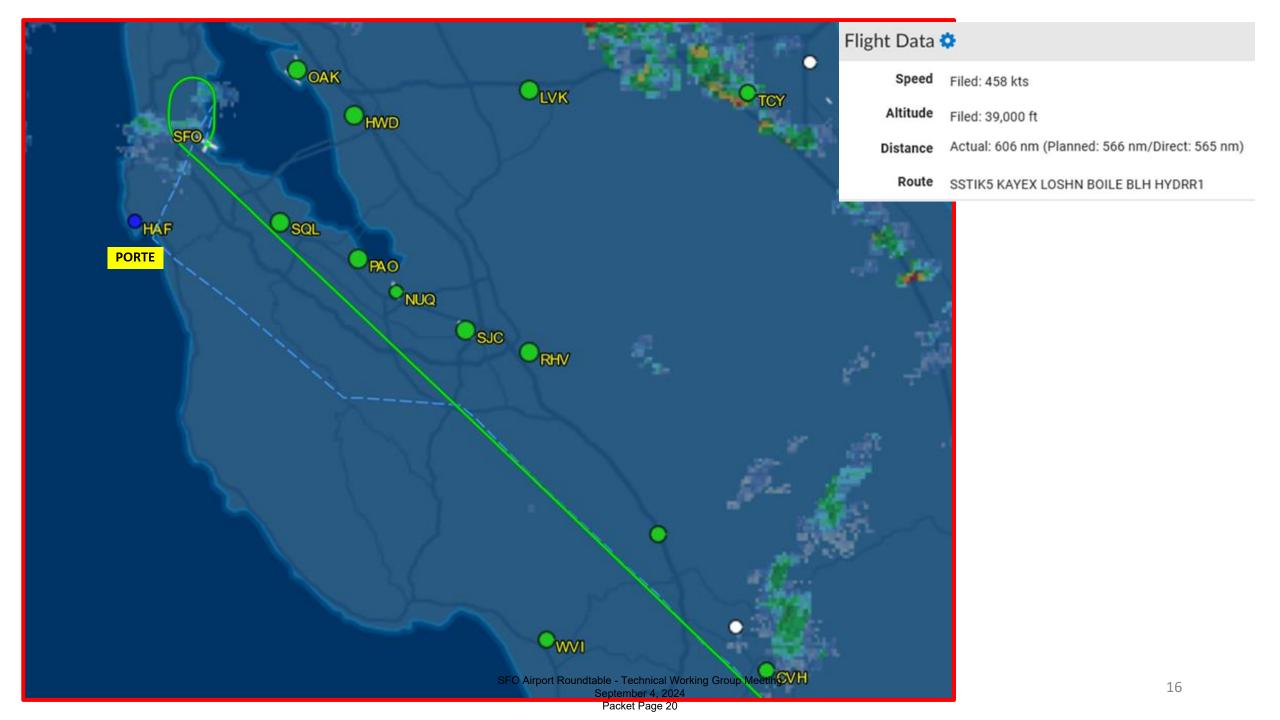
SFO Runway Map 19L 28R

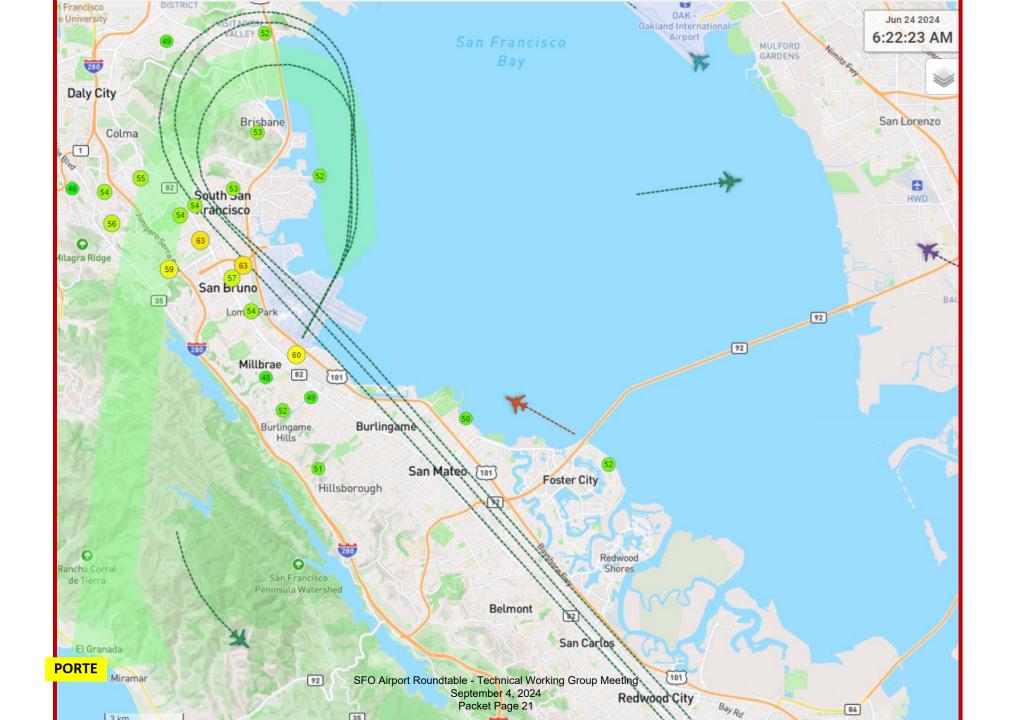


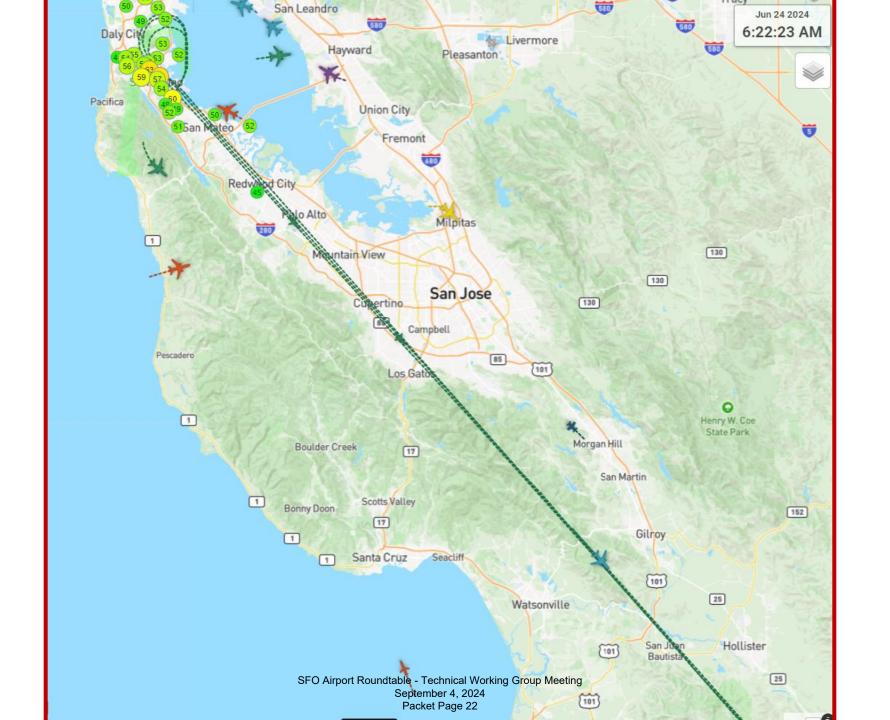




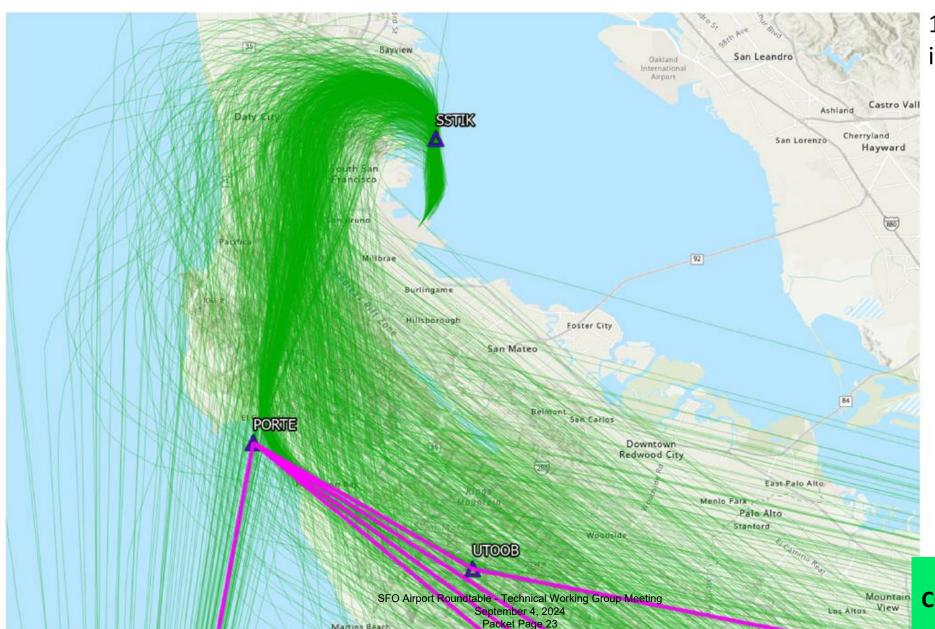








SSTIK departure procedure with tracks closer to airport.



Martins Beach

12 random days in 2023

COURTESY OF THE FAA





END

Evaluation Results of 2 Flight Procedures During the Night (10pm-7am)

SSTIK Departures and 28L Arrivals

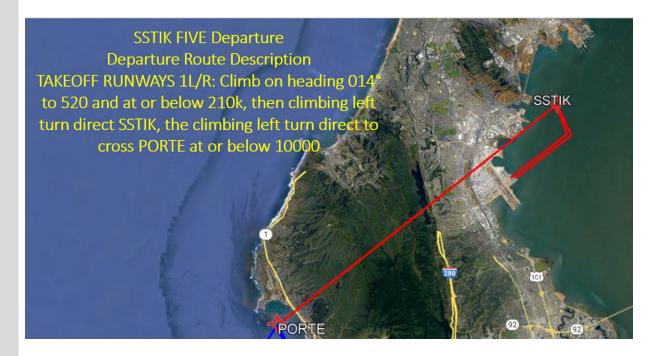
September 2024



Flight Procedures

SSTIK Departure

Runway 28L Arrivals







Weather Information

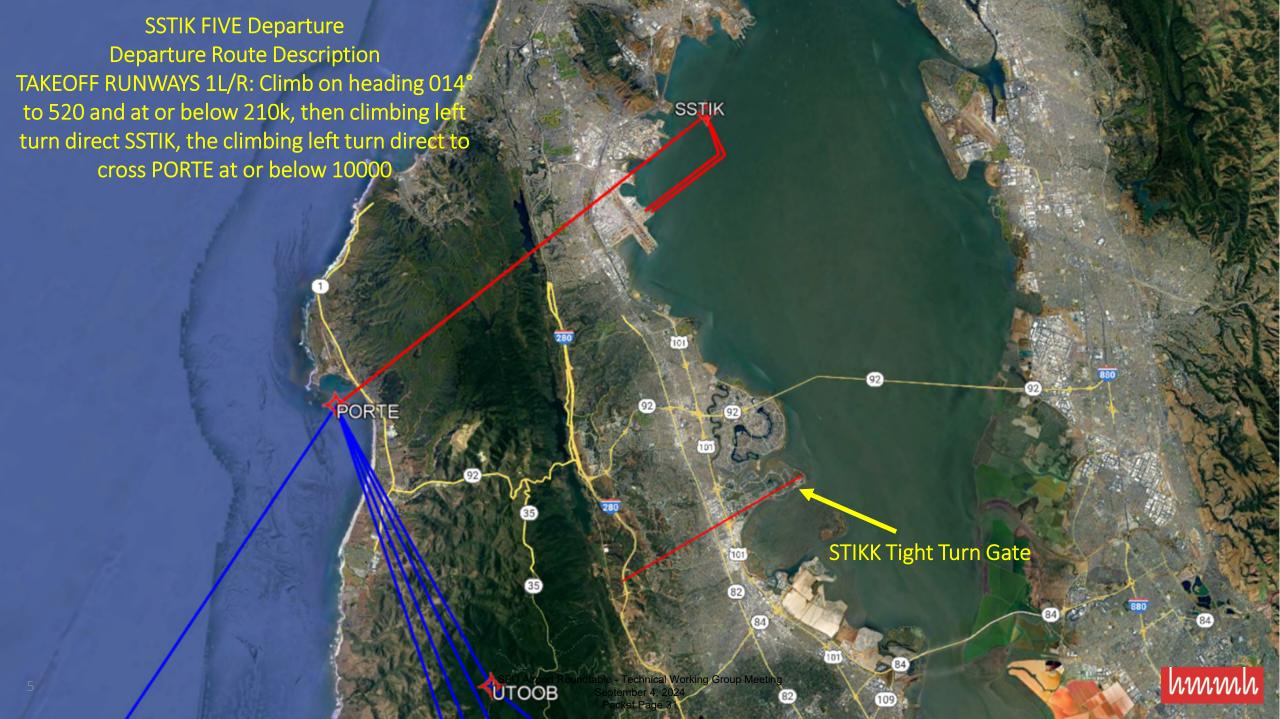
Adverse weather conditions were analyzed for both data sets using archival weather data and no significant weather events regarding precipitation, visibility, or wind were determined to be a factor in the vast majority of deviations.

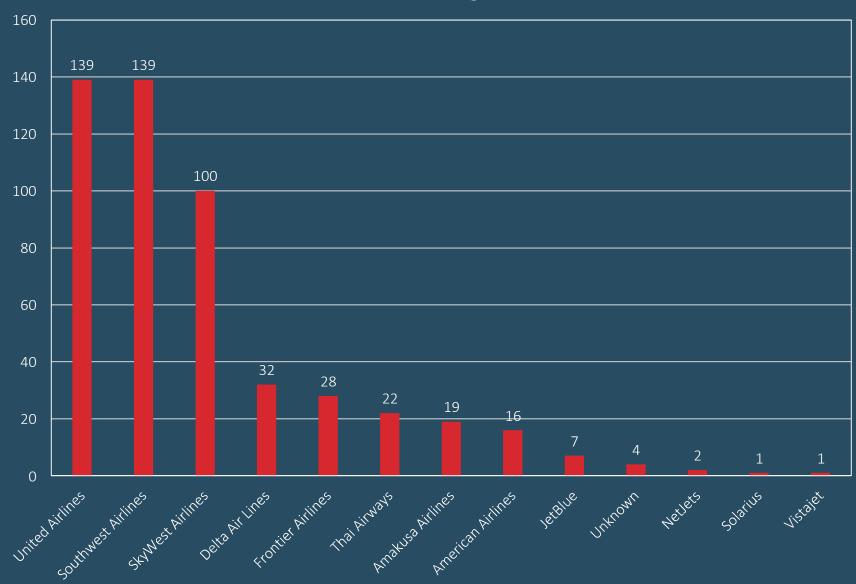


SSTIK Data

- The data set includes 510 separate flights between 5/23/2023 and 10/31/2023.
- All flights either deviated from the SSTIK Standard Instrument Departure or were following an alternative departure procedure between the hours of 10pm and 7am.
- All flights contained within the data set penetrated the "STIKK TIGHT TURN" gate shown on the following slide.

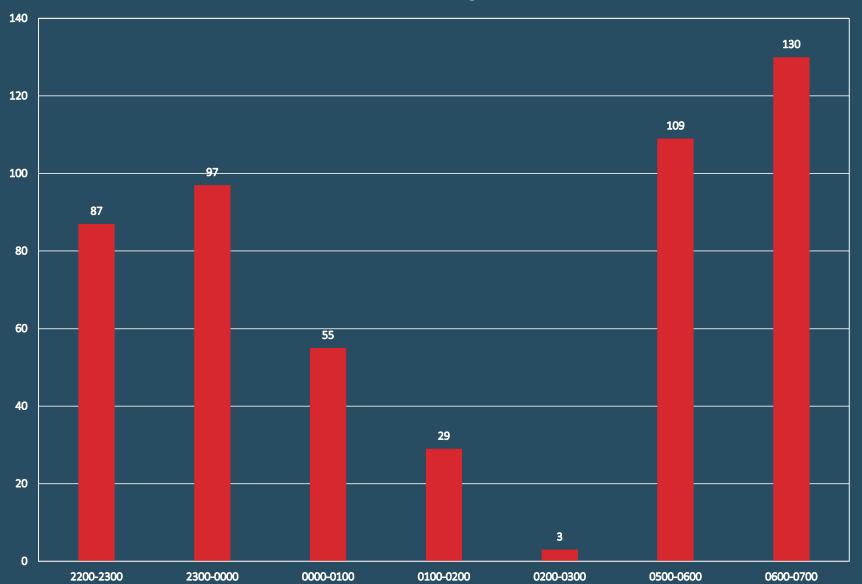






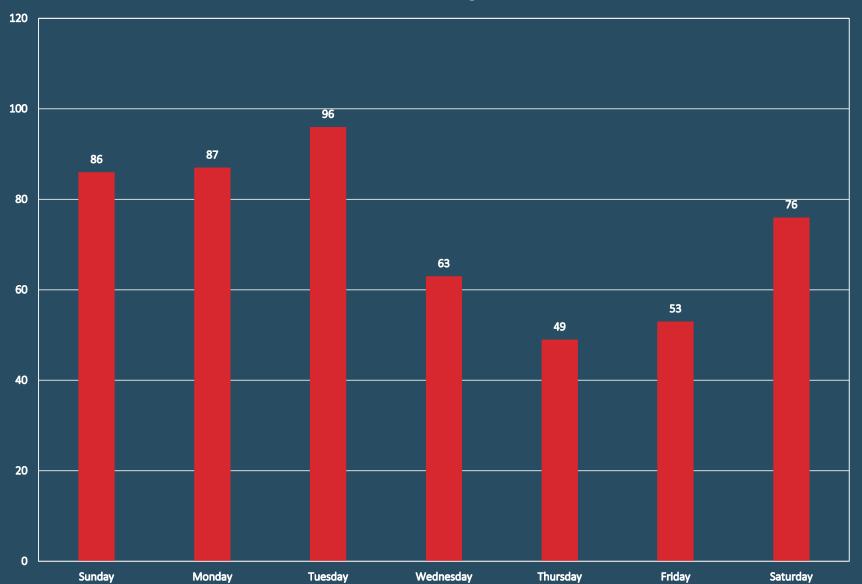
Flight Deviations By Airline





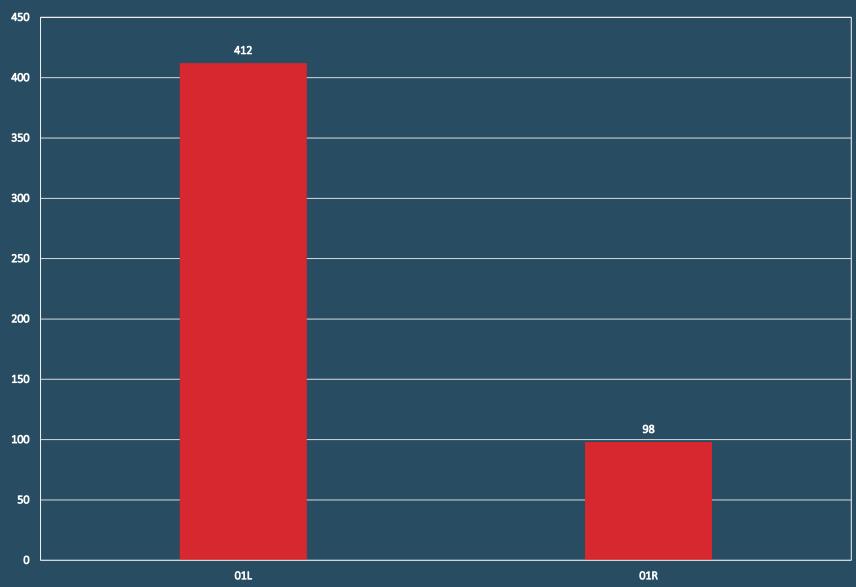
Flight Deviations by Hour





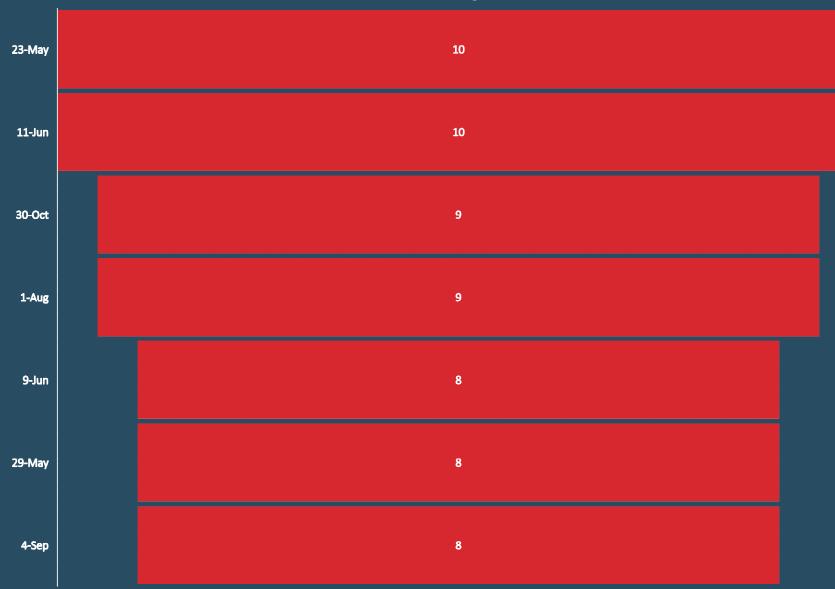
Flight Deviations by Day





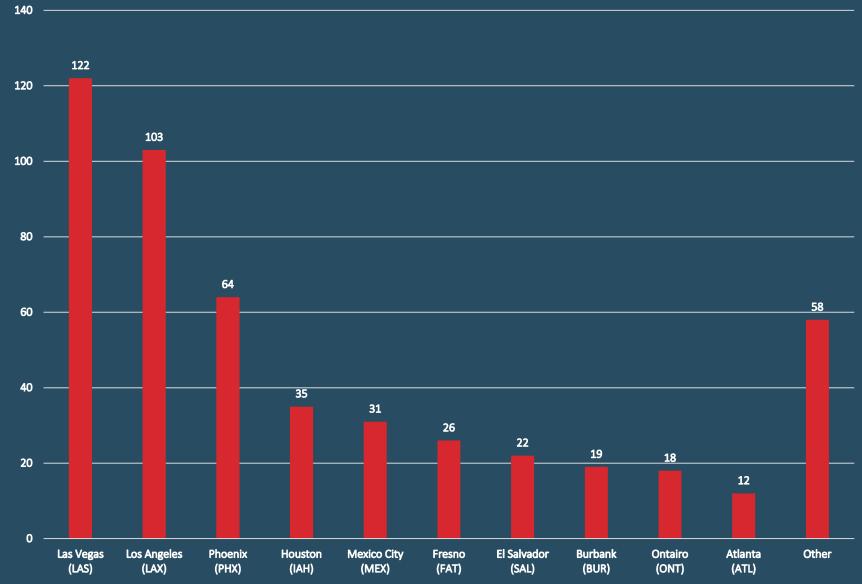
Flight Deviations by Runway





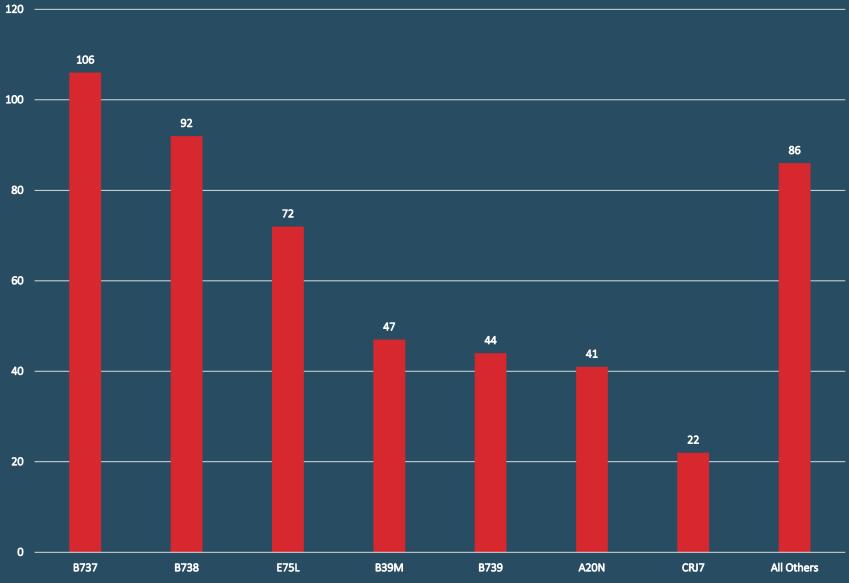
Flight Deviations by Date





Flight Deviations by Destination





Deviations by Aircraft Type

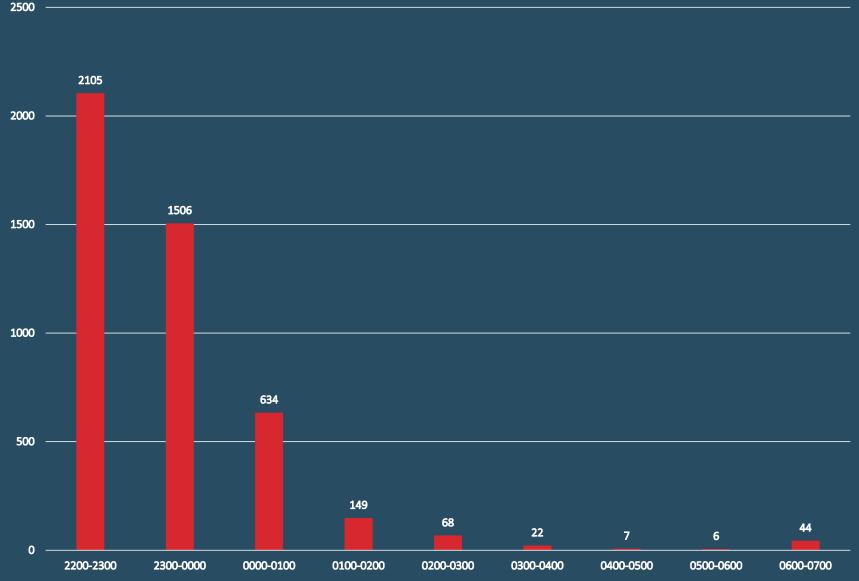


Runway 28 Data

- The data set includes 4,541 separate flights between 4/1/2023 and 10/31/2023 provided by SFO.
- All flights were determined to have deviated from Fly Quiet Recommendations for arrivals to Runways 28L/R between the hours of 10 pm and 7 am and deviated from the preferred path by an average of 5,156 ft.
- All flights contained within the data set penetrated the "Fly Quiet Foster City" gate shown on the following slide.

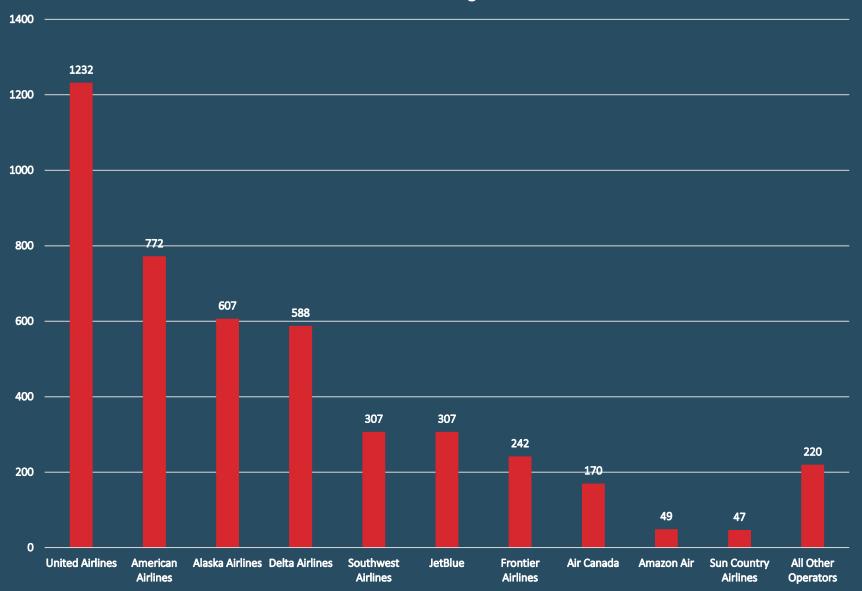






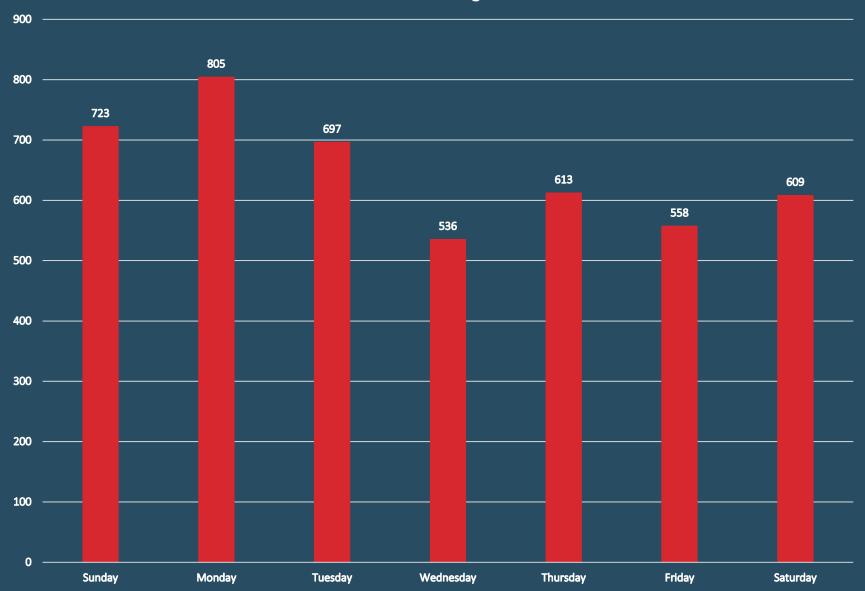
Flight Deviations by Time





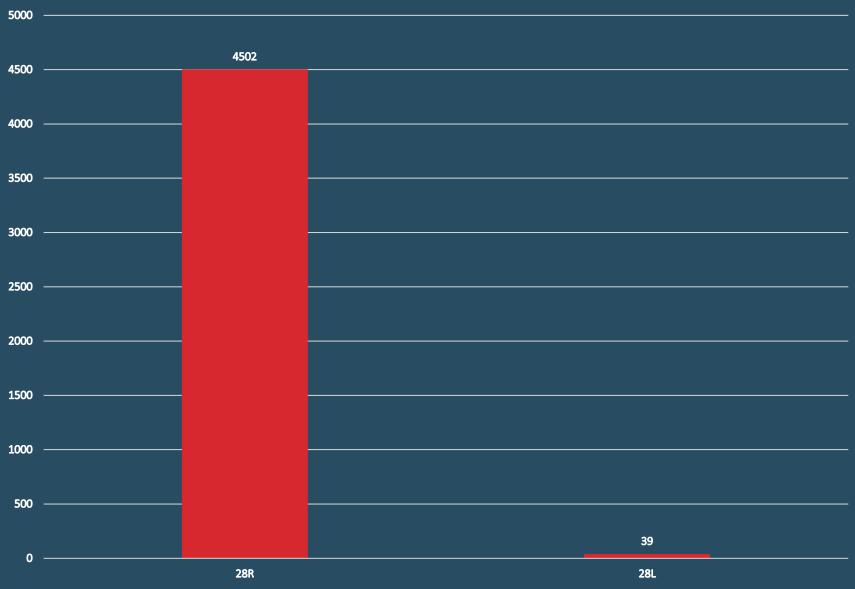
Flight Deviations by Airline Operator





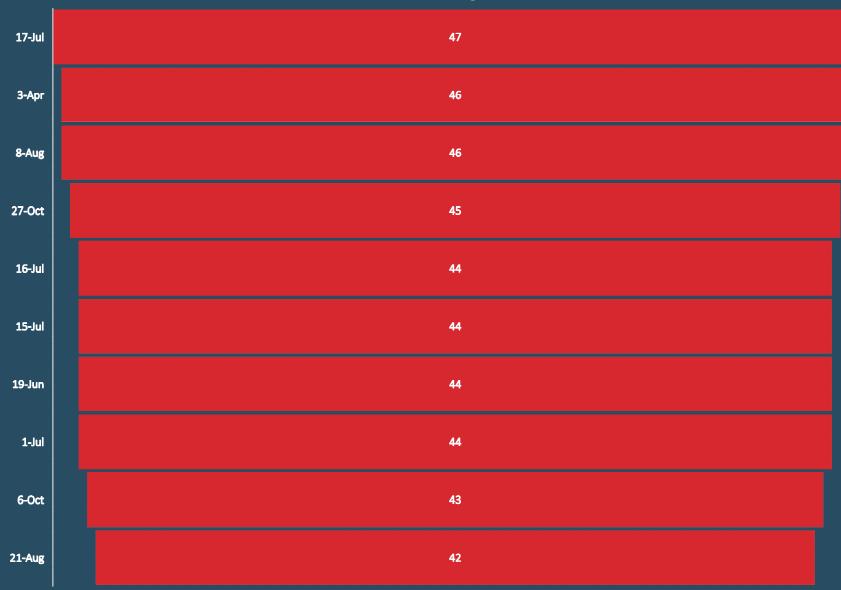
Flights Deviations by Day





Flights by Arrival Runway





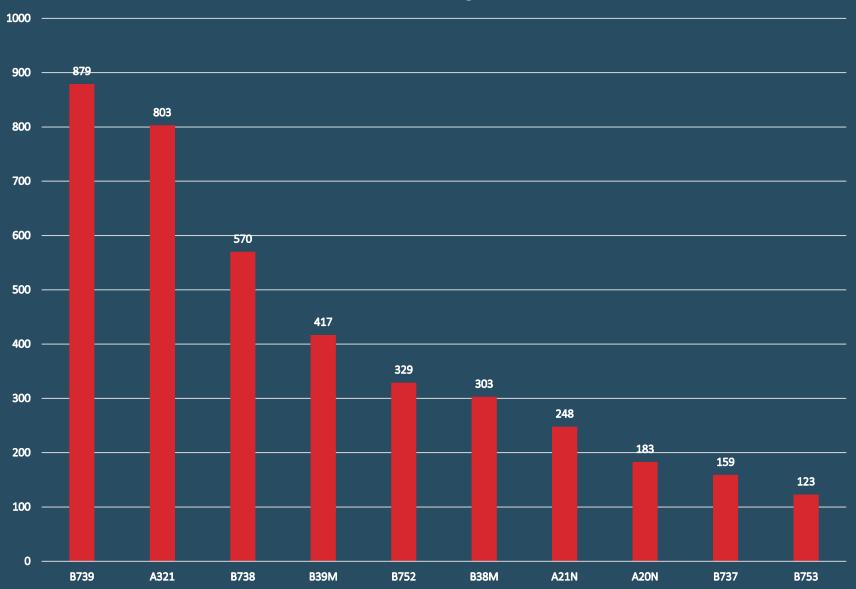
Flight Deviations by Date: Top 10





Flight Deviations by Origin





Number of Flights by Aircraft Type Top 10



Additional Information

RNP AR Operator Authorization

August 20, 2024

Fully Authorized (all aircraft)

(all aircra)	ft)
Alaska	
America	n
Frontier	
Horizon	

Southwest

United

JetBlue

Republic

Partially Authorized

Airline	Authorized	Not Authorized
Delta	ALL except:	A330-200/300 (Early 2025 Authorized) B712
FedEx	B757/B767 B777	A300 MD11 (Early 2025 Authorized)
SkyWest	ERJ-175	CRJ-2/7/9
UPS	B757/B767 MD11/A300	B747 (Mid 2025)
Air Canada	All except:	A319/A320/A321/A330
Executive Jet	CL35, CL60, GL5T, GL7T, GLEX, C68A	Comprises 58% of the Fleet Query Pilots for Authorization
Business Fleet	Some Authorized	Query Pilots

Not Authorized (all aircraft)

(un un crujt)
Air Shuttle Mesa
Air Wisconsin
Allegiant
CommutAir
Endeavor
Envoy
GoJet
Hawaiian
Piedmont
PSA
Spirit Air



Additional Information

FMS Bridge Visual Approach RWY 28L/R

- Maintained by United Airlines and provided to air carriers who request it via their Certificate Management Office (CMO)
- Similar to RNAV Visual
- Never "blessed" (just accepted) by FAA
- Pilots can request the FAA maintained CVFP Bridge Visual if they don't have the FMS Bridge Visual



Further Discussion

- Additional questions and or clarification of information provided
- Possible next steps



Questions?



Thank you

Questions or comments:

jstoddard@hmmh.com



WRITTEN PUBLIC COMMENT FOLLOWS THIS PAGE

This was originally submitted as written public comment for the Technical Working Group agenda item #3 for the meeting of July 16, 2024. That agenda item was rescheduled to the TWG meeting of September 4, 2024.

Sent: Monday, July 15, 2024 1:30 PM

Subject: SFO Roundtable-Technical Working Group Subcommittee

Foster city airplane noise

Hello Kathleen and Sam,

I hope this message finds you well. As we prepare for tomorrow's meeting, I wanted to write in to address the significant issue of airplane noise and its profound impact on health, particularly within households where there are elderly individuals and young children. We've observed that flights from the southeast primarily use offset arrivals while others do not. We understand the need for one airplane to be closer to Foster City during parallel landings. However, often when there's only one airplane landing, the offset approach isn't utilized.

- 1. It is imperative that we focus on maximizing over-bay approaches using GBAS, especially for large aircraft and during quiet hours. The noise generated by routine cargo and airliner at low altitude during these periods can be particularly disruptive and detrimental to the well-being of residents.
- 2. I would like to draw attention to the Boeing 777-222 aircraft, which has been identified as producing notably higher levels of noise and utilizing speed brakes more frequently compared to other aircraft models. It would be beneficial for us to explore any specific factors contributing to these noise levels and investigate potential solutions to mitigate them.
- 3. Additionally, could you please provide an update on the status of implementing the dual offset approach? Understanding when this strategy will be put into production will be crucial for addressing noise concerns effectively.

As we discuss these points in the meeting, I believe it's essential to consider not only the technical aspects but also the human impact of airplane noise. Finding sustainable solutions that prioritize community well-being is paramount. I look forward to our discussion and collaborating on strategies to minimize the impact of airplane noise on our community.

Thank you for your attention to these matters.

Chi-Jen Lin Foster City