



# Space CDM Space Operations Committee (SpOC) XIV

June 3, 2026



**Federal Aviation  
Administration**

# ATO Space Operations is and is not...

## ATO Space CDM is

- ✓ Focused on space operations
- ✓ An operating paradigm and a philosophy through information exchange
- ✓ Follows best practices of 25+ years history with Aviation CDM
- ✓ Allow space operators to build the collaboration framework with FAA – leverage existing industry bodies where appropriate rather than duplicate

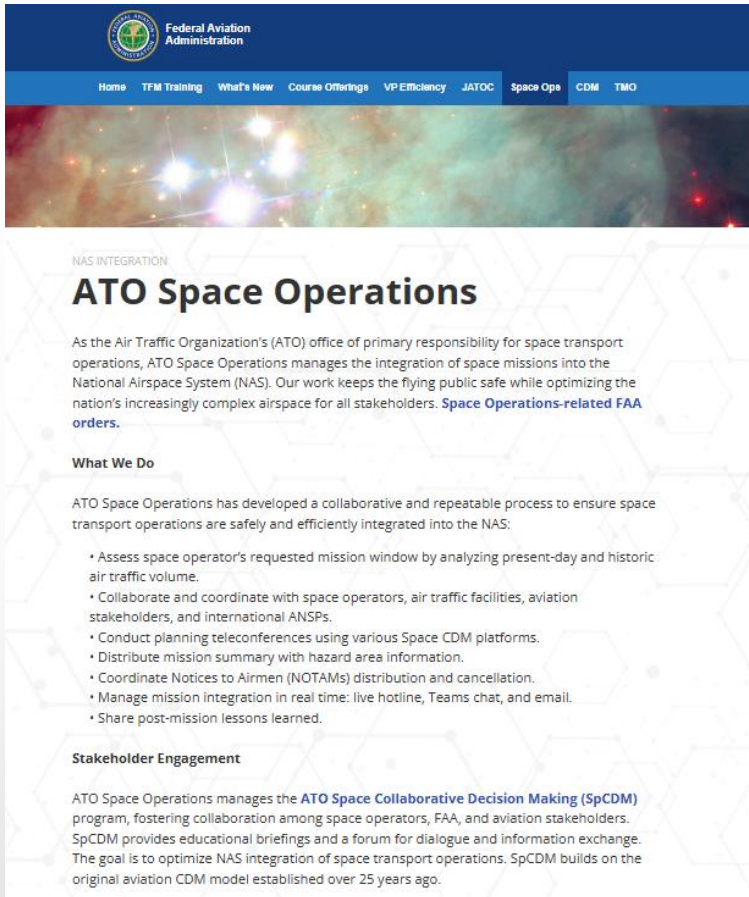
## ATO Space CDM is not

- ✗ Not about licensing and regulation
- ✗ ATO SpCDM is not a decision-making body (e.g., FACA)
- ✗ Will not make decisions or consensus for FAA, rather inform ATO Space Operations
- ✗ Not creating data standards

**This work is voluntary for all industry stakeholders.**



# TFM Learning Website Updates



The screenshot shows the top navigation bar of the TFM Learning website with the FAA logo and menu items: Home, TFM Training, What's New, Course Offerings, VP Efficiency, JATOC, Space Ops, CDM, and TMO. The main content area features a space-themed background image and the heading 'NAS INTEGRATION' above the title 'ATO Space Operations'. Below the title is a paragraph describing the ATO's role in space transport operations. Further down, there are sections for 'What We Do' (listing key tasks like mission window assessment and stakeholder coordination) and 'Stakeholder Engagement' (describing the SpCDM program's goals).

**ATO Space Operations**

As the Air Traffic Organization's (ATO) office of primary responsibility for space transport operations, ATO Space Operations manages the integration of space missions into the National Airspace System (NAS). Our work keeps the flying public safe while optimizing the nation's increasingly complex airspace for all stakeholders. **Space Operations-related FAA orders.**

**What We Do**

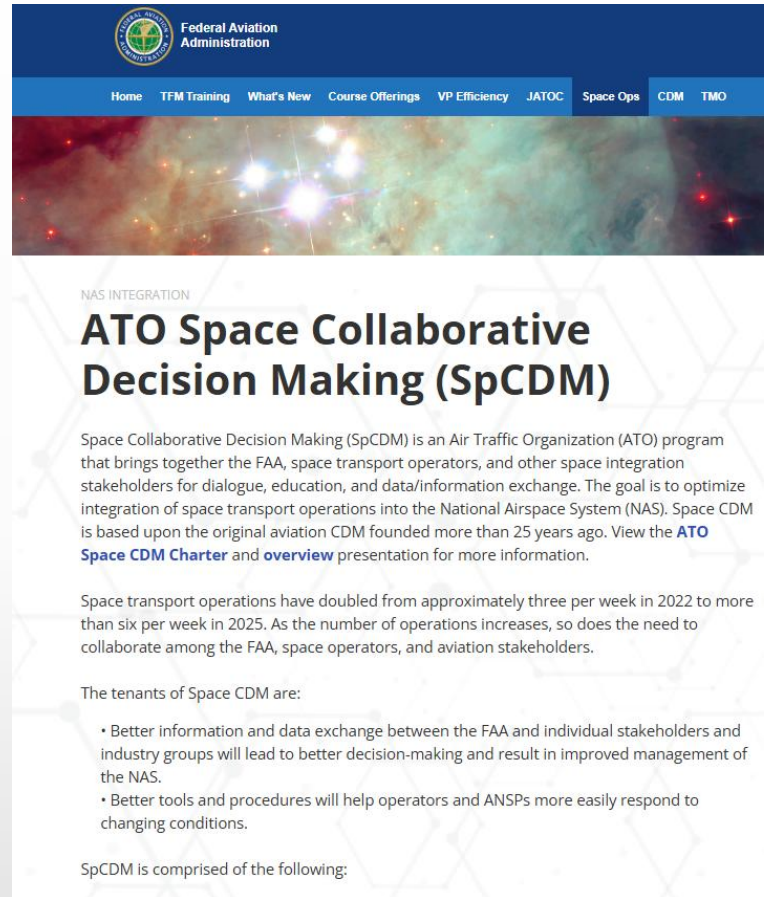
ATO Space Operations has developed a collaborative and repeatable process to ensure space transport operations are safely and efficiently integrated into the NAS:

- Assess space operator's requested mission window by analyzing present-day and historic air traffic volume.
- Collaborate and coordinate with space operators, air traffic facilities, aviation stakeholders, and international ANSPs.
- Conduct planning teleconferences using various Space CDM platforms.
- Distribute mission summary with hazard area information.
- Coordinate Notices to Airmen (NOTAMs) distribution and cancellation.
- Manage mission integration in real time: live hotline, Teams chat, and email.
- Share post-mission lessons learned.

**Stakeholder Engagement**

ATO Space Operations manages the **ATO Space Collaborative Decision Making (SpCDM)** program, fostering collaboration among space operators, FAA, and aviation stakeholders. SpCDM provides educational briefings and a forum for dialogue and information exchange. The goal is to optimize NAS integration of space transport operations. SpCDM builds on the original aviation CDM model established over 25 years ago.

<https://tfmllearning.faa.gov>



The screenshot shows the top navigation bar of the TFM Learning website with the FAA logo and menu items: Home, TFM Training, What's New, Course Offerings, VP Efficiency, JATOC, Space Ops, CDM, and TMO. The main content area features a space-themed background image and the heading 'NAS INTEGRATION' above the title 'ATO Space Collaborative Decision Making (SpCDM)'. Below the title is a paragraph describing SpCDM as an ATO program for dialogue and data exchange. Further down, there are sections for 'The tenants of Space CDM are:' (listing better information exchange and tools) and 'SpCDM is comprised of the following:' (introducing the list of participants).

**ATO Space Collaborative Decision Making (SpCDM)**

Space Collaborative Decision Making (SpCDM) is an Air Traffic Organization (ATO) program that brings together the FAA, space transport operators, and other space integration stakeholders for dialogue, education, and data/information exchange. The goal is to optimize integration of space transport operations into the National Airspace System (NAS). Space CDM is based upon the original aviation CDM founded more than 25 years ago. View the **ATO Space CDM Charter** and **overview** presentation for more information.

Space transport operations have doubled from approximately three per week in 2022 to more than six per week in 2025. As the number of operations increases, so does the need to collaborate among the FAA, space operators, and aviation stakeholders.

The tenants of Space CDM are:

- Better information and data exchange between the FAA and individual stakeholders and industry groups will lead to better decision-making and result in improved management of the NAS.
- Better tools and procedures will help operators and ANSPs more easily respond to changing conditions.

SpCDM is comprised of the following:

[https://tfmllearning.faa.gov/Joint\\_Collaborative\\_Decision\\_Making.html](https://tfmllearning.faa.gov/Joint_Collaborative_Decision_Making.html)

SpCDM is comprised of the following:

**Space Operations Committee (SpCDM SpOC)** – a forum that meets quarterly to discuss technologies, processes, and procedures that support NAS integration of space transport operations.

**Space CDM Executive Steering Committee (SpCDM ESC)** – provides oversight for the ATO SpCDM program, including direction, guidance, and process to the sub-teams and sub-team activities.

**SpCDM Sub-teams** – are created at the discretion of the ESC when a knowledge base or skill set is required to accomplish further research and/or development of space-related tools, requirements, or concepts. Sub-teams are led by FAA and space industry co-leads.

## SPCDM PARTICIPANTS

### GOVERNMENT

FAA  
NASA  
U.S. Space Force (USSF)

### ASSOCIATIONS

Airlines for America (A4A)  
Commercial Space Federation (CSF)  
International Air Transport Association (IATA)  
National Business Aviation Association (NBAA)

### INDUSTRY

ABL Space Systems  
Blue Origin  
Boeing  
Firefly Aerospace  
Relativity  
Rocket Lab USA, Inc.  
Sierra Space  
SpaceX  
Stoke Space  
United Launch Alliance (ULA)  
Virgin Galactic



# Operational Metrics Update



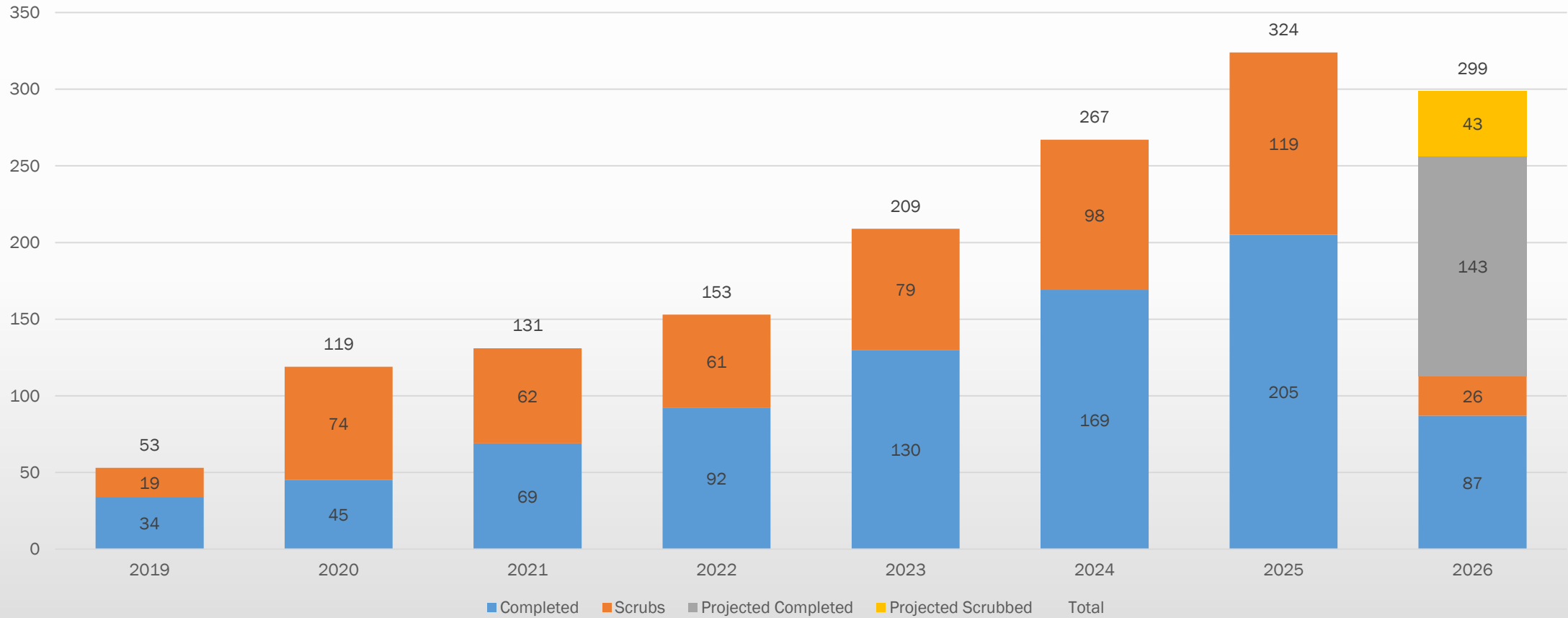
# Mid Point Check-In

- Completed 87 missions and had 26 scrubs so far in 2026
- 10 Operators using 17 different vehicles
  - 9 operators and 13 different vehicles
- 76 Licensed operations and 11 unlicensed
  - 87.4% licensed
- 20 International FIRs coordinated with this year

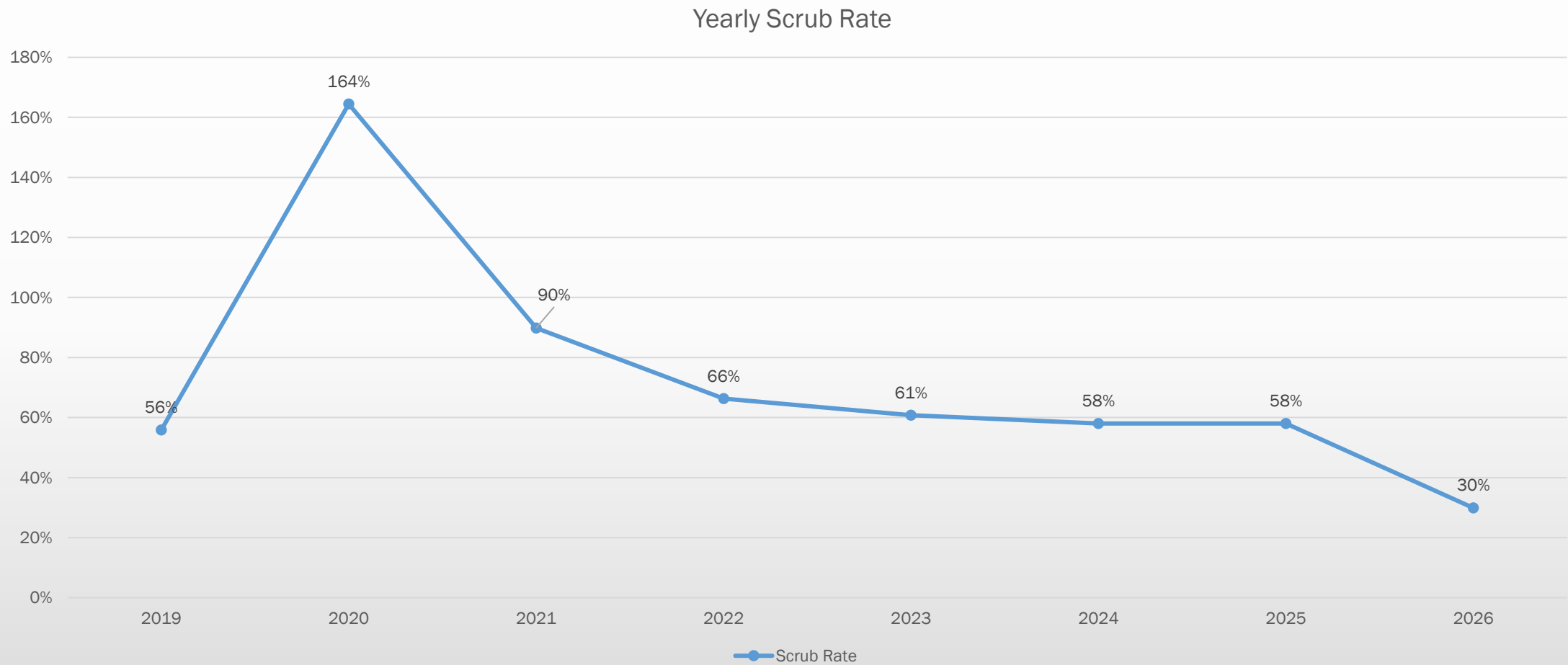


# Launch vs Attempts (w/Projection)

Completed and Scrubbed w/2026 Projection

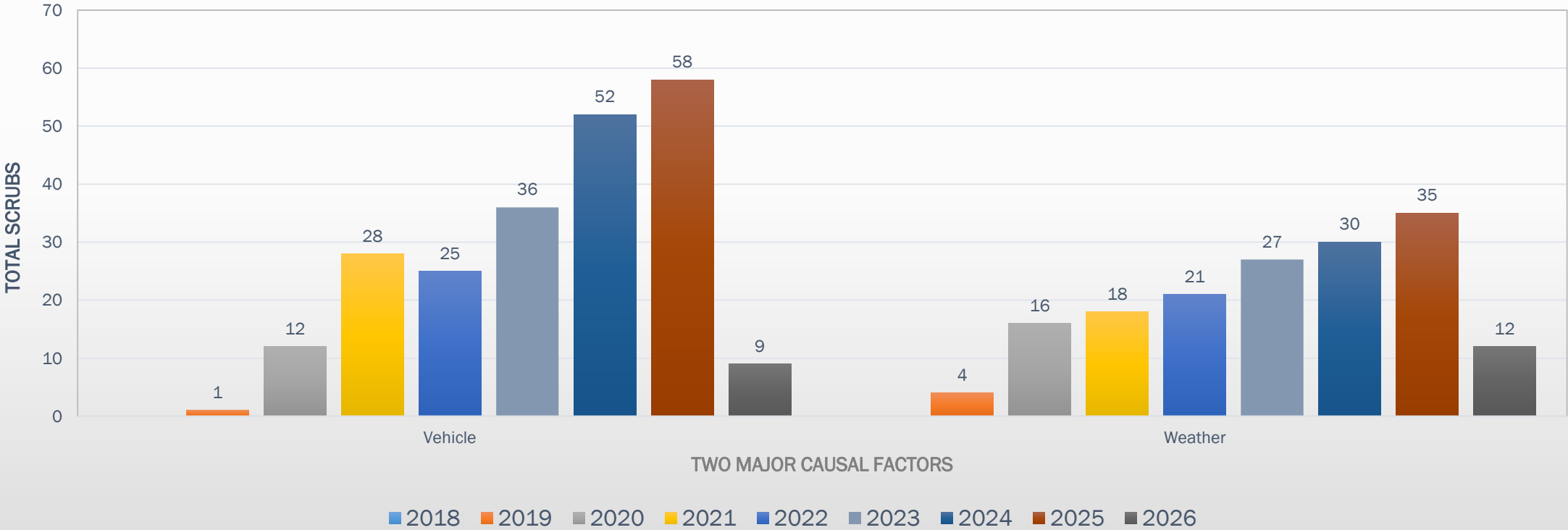


# Yearly Scrub Rate



# Scrub Categories

LEADING CAUSAL FACTORS OF SCRUBS BY YEAR:



# Joint Airspace Optimization Sub-team



# Current Work

- Defined:
  - Scope
  - Workflow
  - Current “problems”
- Identified 12 areas for improvement



# Next Steps

- June:
  - Refining the “problem” statements
  - Assigning individuals to specific problems
    - Recommend solutions to the wider group to discuss
  - Assigning priorities
  
- July/August:
  - Researching solutions/determining needs
  - Compiling information
  - Review and finalize recommendations Fall 2026



# Mission-Specific AHA Flight Throughput Analysis 01/01/25 – 03/31/26



# Mission-Specific AHAs

- “High-Profile Mission”
  - AHA-A
  - AHA-B
  - AHA-C
- Cape Canaveral Space Force Station (CCSFS) GTO
  - AHA-A
  - AHA-B
- Cape Canaveral Space Force Station (CCSFS) NE Compact
  - AHA-A
  - AHA-B
- Cape Canaveral Space Force Station (CCSFS) NE Extended
  - AHA-A
  - AHA-B
  - AHA-C
  - AHA-D



# High-Profile Mission AHA-A

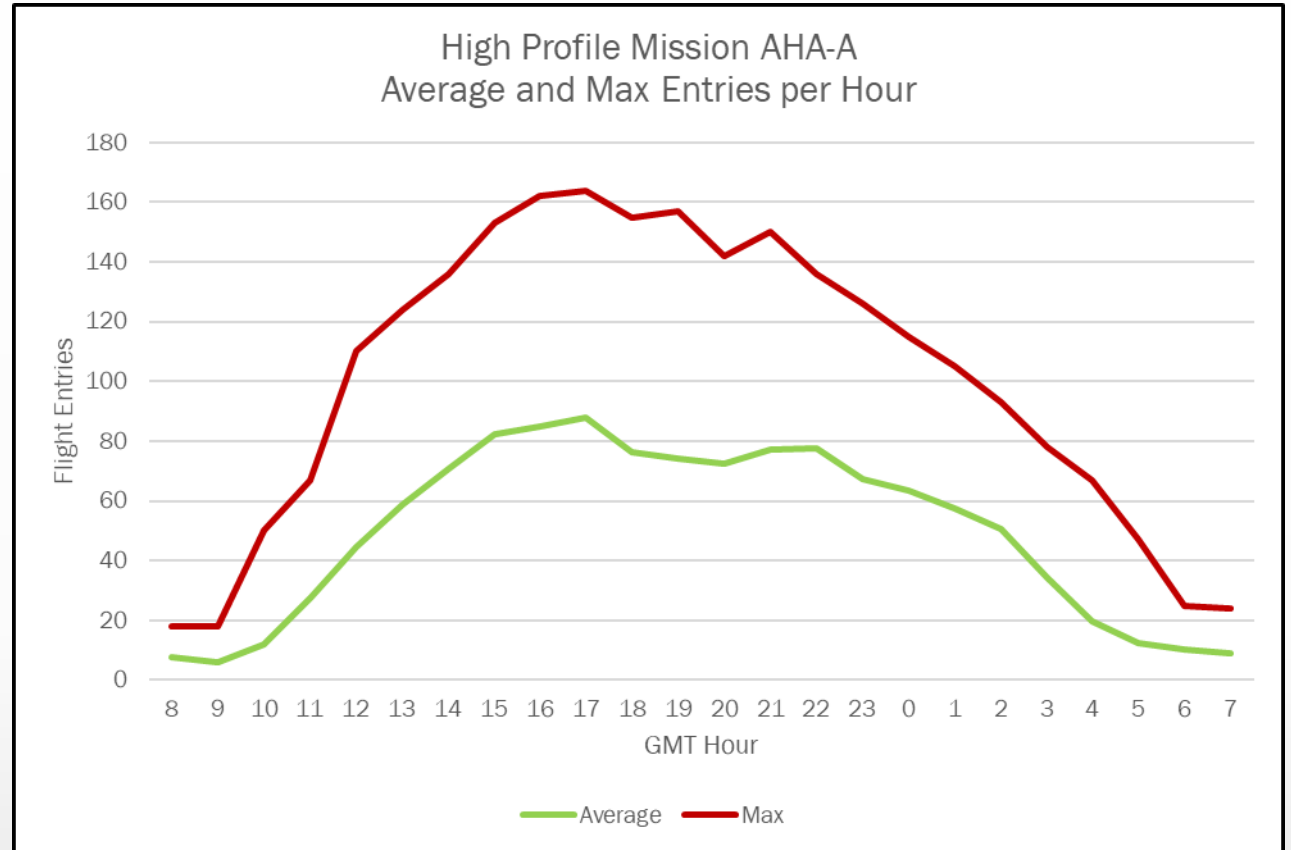
## Weekday Averages

| High Profile Mission AHA-A |          |      |      |      |      |      |      |      |
|----------------------------|----------|------|------|------|------|------|------|------|
|                            | Hour (Z) | Sun  | Mon  | Tue  | Wed  | Thu  | Fri  | Sat  |
| Total Entries              | Average  | 1283 | 1143 | 1062 | 1095 | 1213 | 1225 | 1269 |
|                            | Max      | 2010 | 1711 | 1546 | 1444 | 1645 | 1813 | 2035 |
| Peak Load                  | Average  | 24   | 22   | 22   | 21   | 24   | 23   | 25   |
|                            | Max      | 39   | 30   | 32   | 28   | 34   | 34   | 38   |

## Hourly Averages

### High Profile Mission AHA-A

|               | Hour (Z) | 8  | 9  | 10 | 11 | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 0   | 1   | 2  | 3  | 4  | 5  | 6  | 7  |
|---------------|----------|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|
| Total Entries | Average  | 8  | 6  | 12 | 28 | 45  | 59  | 71  | 82  | 85  | 88  | 76  | 74  | 73  | 77  | 77  | 67  | 63  | 57  | 50 | 34 | 20 | 12 | 10 | 9  |
|               | Max      | 18 | 18 | 50 | 67 | 110 | 124 | 136 | 153 | 162 | 164 | 155 | 157 | 142 | 150 | 136 | 126 | 115 | 105 | 93 | 78 | 67 | 47 | 25 | 24 |
| Peak Load     | Average  | 3  | 3  | 4  | 8  | 10  | 13  | 16  | 19  | 20  | 20  | 18  | 17  | 16  | 17  | 17  | 15  | 14  | 12  | 11 | 9  | 6  | 4  | 4  | 4  |
|               | Max      | 10 | 7  | 11 | 16 | 24  | 29  | 32  | 35  | 39  | 35  | 35  | 32  | 32  | 34  | 32  | 28  | 24  | 22  | 20 | 18 | 17 | 11 | 8  | 7  |



# High Profile Mission AHA-A

## Weekday Hourly Averages

| High Profile Mission AHA-A |         | Hour (Z) | 8  | 9  | 10 | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 0   | 1  | 2  | 3  | 4  | 5  | 6  | 7 |
|----------------------------|---------|----------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|---|
| Sunday                     | Average | 7        | 5  | 11 | 29 | 47  | 61  | 75  | 87  | 94  | 96  | 88  | 85  | 80  | 84  | 83  | 74  | 66  | 58  | 50 | 35 | 22 | 13 | 10 | 10 |   |
|                            | Max     | 13       | 11 | 36 | 67 | 110 | 112 | 136 | 153 | 143 | 157 | 152 | 157 | 136 | 150 | 136 | 118 | 115 | 105 | 88 | 77 | 54 | 30 | 17 | 17 |   |
| Monday                     | Average | 8        | 6  | 12 | 26 | 44  | 60  | 69  | 79  | 79  | 83  | 73  | 69  | 67  | 76  | 75  | 65  | 69  | 62  | 53 | 35 | 21 | 14 | 11 | 10 |   |
|                            | Max     | 15       | 18 | 30 | 63 | 104 | 110 | 116 | 127 | 131 | 143 | 144 | 121 | 115 | 122 | 122 | 104 | 114 | 99  | 93 | 78 | 56 | 47 | 25 | 24 |   |
| Tuesday                    | Average | 7        | 6  | 12 | 27 | 42  | 55  | 65  | 76  | 73  | 79  | 68  | 64  | 64  | 68  | 70  | 58  | 61  | 58  | 50 | 34 | 19 | 11 | 10 | 8  |   |
|                            | Max     | 15       | 12 | 29 | 60 | 85  | 92  | 113 | 125 | 129 | 147 | 115 | 115 | 100 | 102 | 106 | 88  | 102 | 86  | 82 | 75 | 50 | 34 | 20 | 16 |   |
| Wednesday                  | Average | 7        | 7  | 12 | 26 | 42  | 54  | 67  | 75  | 78  | 81  | 68  | 68  | 67  | 74  | 70  | 62  | 55  | 51  | 45 | 30 | 17 | 11 | 9  | 10 |   |
|                            | Max     | 15       | 13 | 28 | 57 | 71  | 99  | 101 | 121 | 109 | 123 | 111 | 105 | 99  | 108 | 115 | 95  | 86  | 85  | 83 | 64 | 48 | 31 | 19 | 18 |   |
| Thursday                   | Average | 8        | 6  | 13 | 28 | 45  | 60  | 70  | 82  | 84  | 88  | 78  | 75  | 75  | 79  | 80  | 70  | 58  | 53  | 47 | 31 | 18 | 11 | 10 | 8  |   |
|                            | Max     | 18       | 13 | 37 | 60 | 81  | 99  | 104 | 123 | 125 | 147 | 125 | 125 | 118 | 117 | 115 | 114 | 94  | 77  | 72 | 66 | 33 | 28 | 16 | 13 |   |
| Friday                     | Average | 8        | 6  | 13 | 27 | 44  | 56  | 70  | 85  | 87  | 91  | 78  | 77  | 76  | 81  | 83  | 72  | 66  | 60  | 54 | 37 | 21 | 13 | 10 | 10 |   |
|                            | Max     | 13       | 13 | 27 | 62 | 76  | 91  | 120 | 139 | 131 | 164 | 132 | 141 | 127 | 138 | 125 | 111 | 109 | 95  | 90 | 68 | 46 | 27 | 17 | 17 |   |
| Saturday                   | Average | 8        | 6  | 13 | 30 | 48  | 64  | 79  | 94  | 97  | 96  | 82  | 80  | 80  | 80  | 82  | 69  | 67  | 60  | 55 | 37 | 20 | 14 | 11 | 1  |   |
|                            | Max     | 15       | 10 | 50 | 67 | 106 | 124 | 127 | 150 | 162 | 151 | 155 | 148 | 142 | 124 | 130 | 126 | 97  | 88  | 87 | 69 | 67 | 28 | 21 | 17 |   |

*Top 10 and Bottom 10 values highlighted to identify most optimal/sub-optimal launch times*

2025 - Q1 2026 Launches: 4

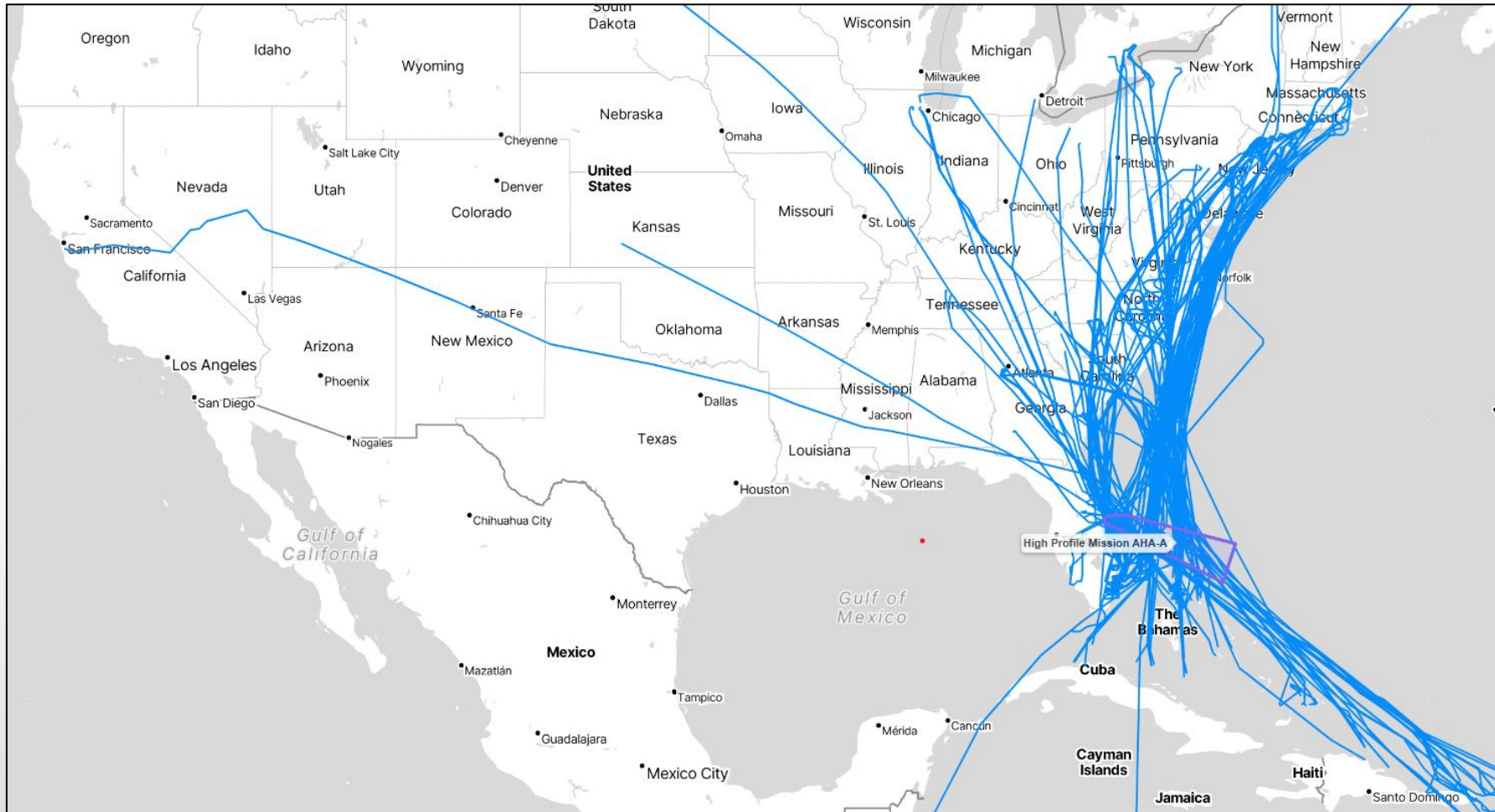
Launches During:

Low-Traffic Hours: 0 (0.0%)

High-Traffic Hours: 0 (0.0%)



# High Profile Mission AHA-A Sample Busy Hour Throughput



Time Range Shown: 01/04/2026 1600Z - 1700Z



# High Profile Mission AHA-B

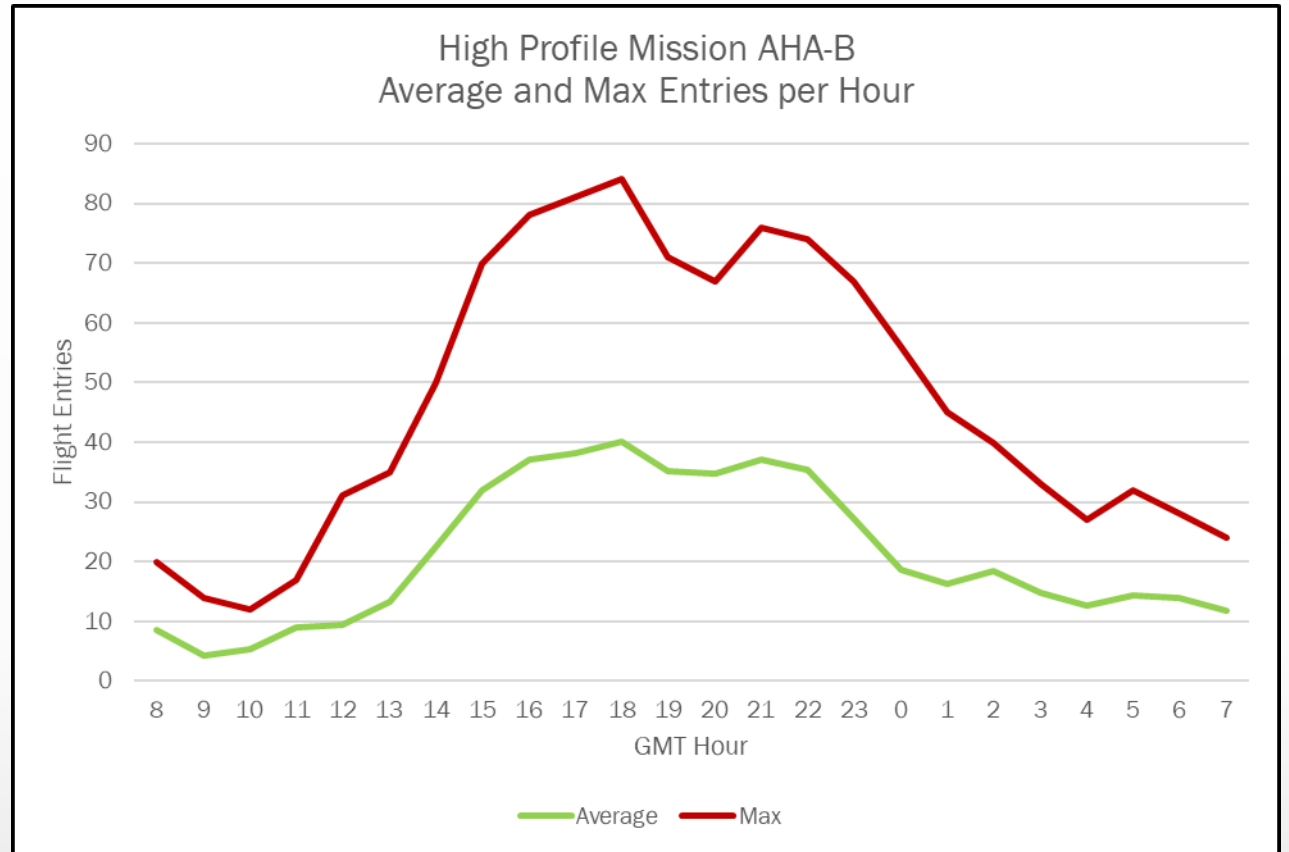
## Weekday Averages

| High Profile Mission AHA-B |          |     |     |     |     |     |     |     |
|----------------------------|----------|-----|-----|-----|-----|-----|-----|-----|
|                            | Hour (Z) | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| Total Entries              | Average  | 529 | 484 | 465 | 471 | 493 | 519 | 616 |
|                            | Max      | 973 | 902 | 775 | 675 | 781 | 820 | 946 |
| Peak Load                  | Average  | 8   | 8   | 8   | 8   | 8   | 8   | 9   |
|                            | Max      | 13  | 13  | 14  | 13  | 12  | 11  | 15  |

## Hourly Averages

### High Profile Mission AHA-B

|               | Hour (Z) | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  |
|---------------|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Total Entries | Average  | 9  | 4  | 5  | 9  | 9  | 13 | 23 | 32 | 37 | 38 | 40 | 35 | 35 | 37 | 35 | 27 | 19 | 16 | 18 | 15 | 13 | 14 | 14 | 12 |
|               | Max      | 20 | 14 | 12 | 17 | 31 | 35 | 50 | 70 | 78 | 81 | 84 | 71 | 67 | 76 | 74 | 67 | 56 | 45 | 40 | 33 | 27 | 32 | 28 | 24 |
| Peak Load     | Average  | 3  | 2  | 2  | 3  | 3  | 3  | 4  | 6  | 6  | 6  | 7  | 6  | 6  | 6  | 5  | 4  | 4  | 4  | 3  | 3  | 3  | 3  | 3  | 3  |
|               | Max      | 7  | 5  | 6  | 6  | 7  | 8  | 9  | 10 | 13 | 14 | 14 | 13 | 15 | 13 | 13 | 12 | 11 | 10 | 9  | 7  | 7  | 8  | 7  | 6  |



# High Profile Mission AHA-B

## Weekday Hourly Averages

### High Profile Mission AHA-B

| Hour (Z)  |         | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  |
|-----------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Sunday    | Average | 10 | 4  | 5  | 9  | 10 | 14 | 24 | 33 | 39 | 42 | 43 | 36 | 36 | 37 | 36 | 27 | 24 | 18 | 20 | 16 | 13 | 15 | 14 | 12 |
|           | Max     | 19 | 11 | 9  | 17 | 31 | 28 | 44 | 60 | 73 | 81 | 77 | 68 | 67 | 76 | 69 | 57 | 55 | 45 | 32 | 28 | 27 | 21 | 24 | 21 |
| Monday    | Average | 8  | 4  | 5  | 9  | 9  | 14 | 20 | 29 | 34 | 36 | 38 | 32 | 32 | 36 | 34 | 25 | 19 | 17 | 18 | 15 | 14 | 16 | 14 | 11 |
|           | Max     | 19 | 12 | 10 | 16 | 26 | 33 | 35 | 51 | 63 | 60 | 78 | 67 | 55 | 57 | 65 | 67 | 56 | 38 | 40 | 25 | 23 | 32 | 25 | 21 |
| Tuesday   | Average | 8  | 4  | 5  | 9  | 8  | 12 | 21 | 29 | 32 | 33 | 36 | 32 | 33 | 36 | 31 | 24 | 18 | 16 | 19 | 15 | 11 | 13 | 14 | 11 |
|           | Max     | 13 | 10 | 11 | 17 | 19 | 21 | 38 | 54 | 62 | 71 | 69 | 64 | 53 | 59 | 55 | 57 | 37 | 41 | 40 | 33 | 26 | 22 | 23 | 19 |
| Wednesday | Average | 8  | 4  | 5  | 8  | 9  | 11 | 21 | 30 | 34 | 34 | 36 | 32 | 31 | 34 | 33 | 25 | 16 | 16 | 17 | 14 | 12 | 13 | 13 | 11 |
|           | Max     | 17 | 10 | 9  | 17 | 19 | 22 | 39 | 47 | 51 | 57 | 62 | 50 | 48 | 60 | 60 | 53 | 31 | 31 | 26 | 22 | 22 | 27 | 23 | 23 |
| Thursday  | Average | 9  | 5  | 5  | 9  | 9  | 12 | 20 | 29 | 35 | 37 | 39 | 32 | 33 | 35 | 34 | 28 | 16 | 15 | 18 | 14 | 12 | 14 | 14 | 12 |
|           | Max     | 17 | 14 | 11 | 17 | 18 | 24 | 35 | 47 | 65 | 62 | 61 | 58 | 53 | 57 | 69 | 56 | 29 | 23 | 30 | 23 | 21 | 25 | 28 | 24 |
| Friday    | Average | 9  | 5  | 6  | 10 | 10 | 14 | 22 | 32 | 38 | 40 | 39 | 35 | 34 | 37 | 37 | 28 | 19 | 16 | 18 | 15 | 13 | 15 | 14 | 13 |
|           | Max     | 16 | 12 | 12 | 17 | 20 | 26 | 39 | 52 | 56 | 76 | 73 | 63 | 59 | 58 | 63 | 67 | 38 | 26 | 29 | 24 | 24 | 22 | 22 | 23 |
| Saturday  | Average | 8  | 4  | 6  | 9  | 10 | 16 | 30 | 43 | 48 | 47 | 49 | 47 | 44 | 45 | 42 | 35 | 19 | 16 | 19 | 16 | 13 | 15 | 14 | 1  |
|           | Max     | 20 | 11 | 12 | 16 | 25 | 35 | 50 | 70 | 78 | 77 | 84 | 71 | 63 | 73 | 74 | 66 | 36 | 26 | 32 | 26 | 25 | 25 | 24 | 21 |

*Top 10 and Bottom 10 values highlighted to identify most optimal/sub-optimal launch times*

2025 - Q1 2026 Launches: 4

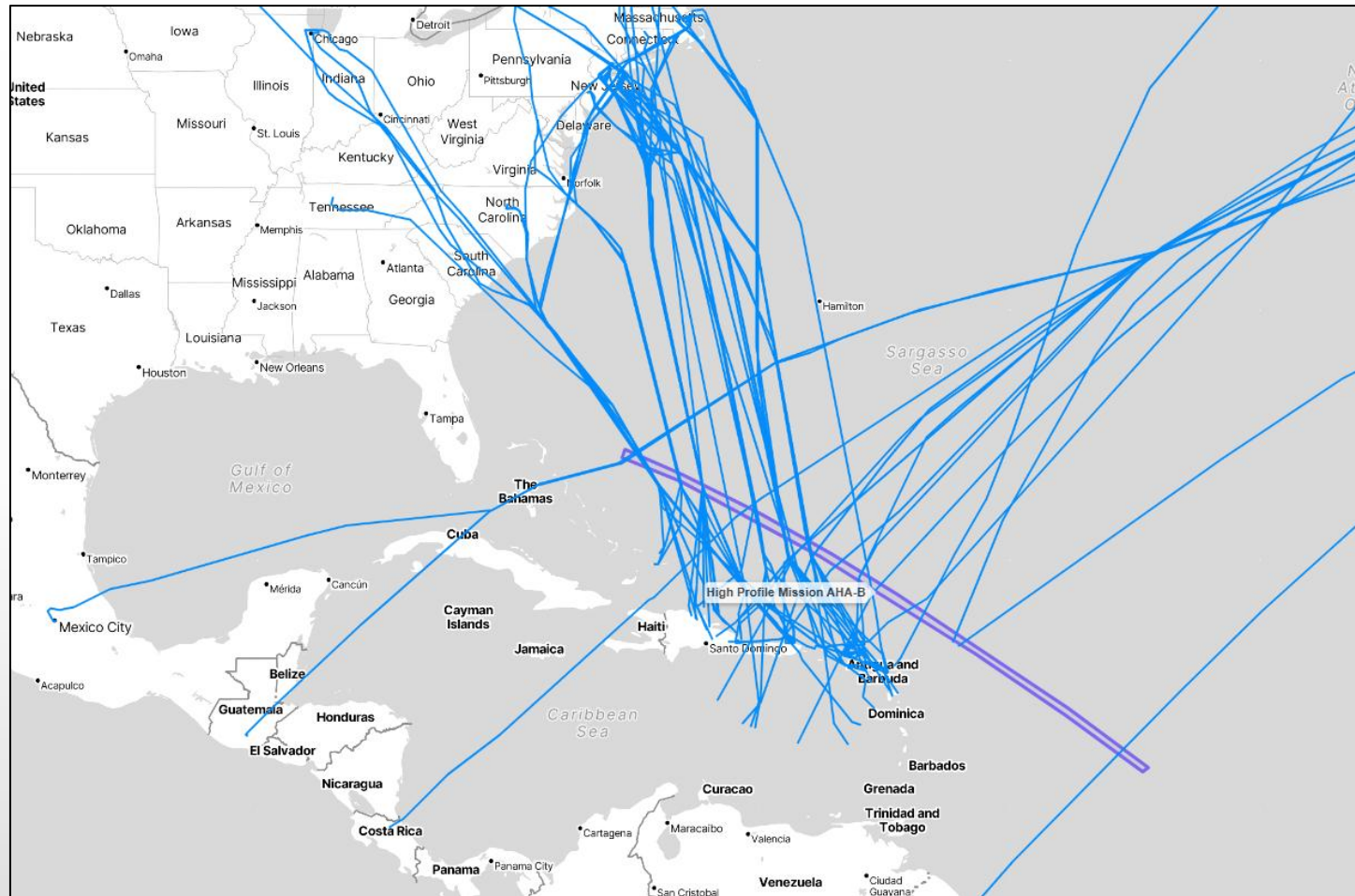
Launches During:

Low-Traffic Hours: 0 (0.0%)

High-Traffic Hours: 0 (0.0%)



# High Profile Mission AHA-B Sample Busy Hour Throughput



Time Range Shown: 03/28/2026 2000Z - 2100Z



# High Profile Mission AHA-C

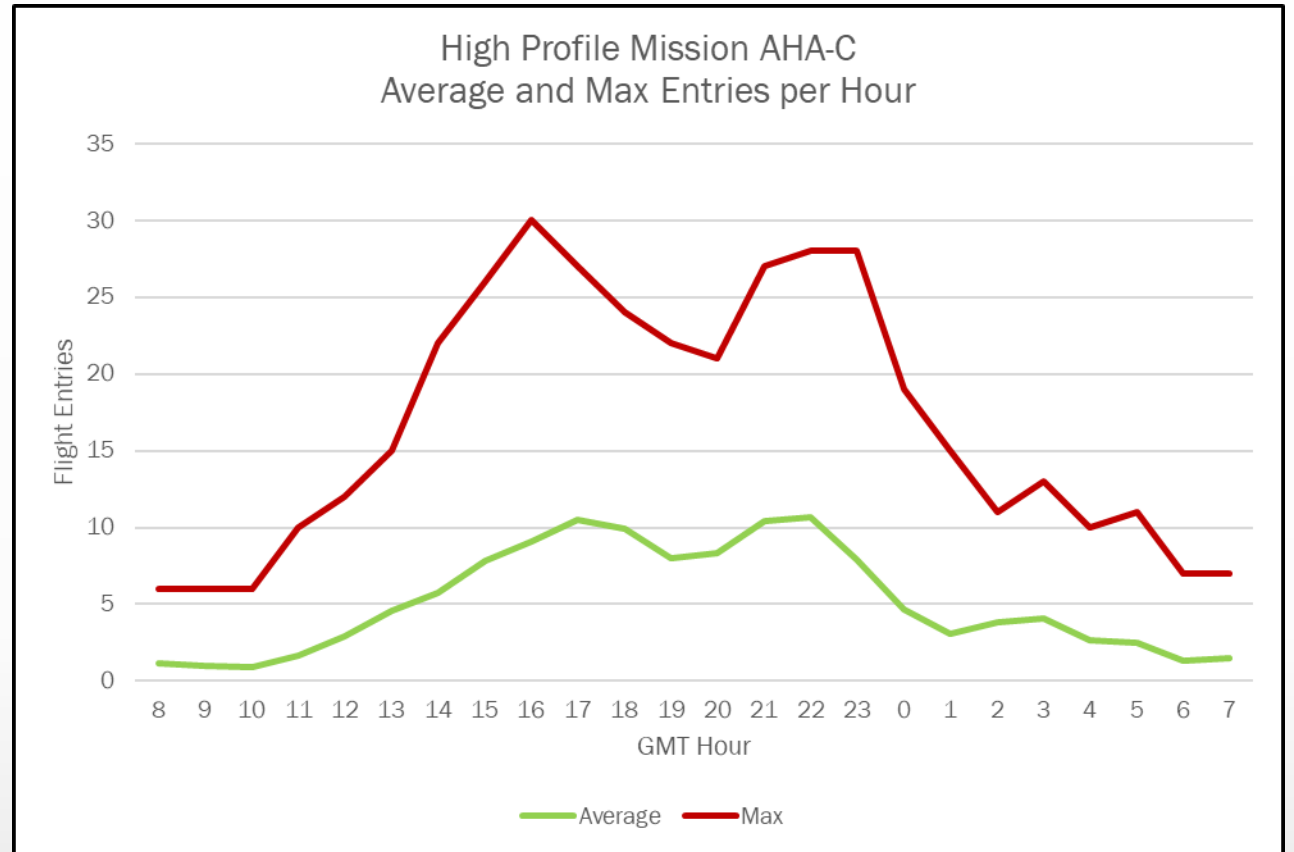
## Weekday Averages

| High Profile Mission AHA-C |          |     |     |     |     |     |     |     |
|----------------------------|----------|-----|-----|-----|-----|-----|-----|-----|
|                            | Hour (Z) | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| Total Entries              | Average  | 128 | 111 | 111 | 114 | 125 | 123 | 157 |
|                            | Max      | 256 | 214 | 185 | 194 | 198 | 208 | 271 |
| Peak Load                  | Average  | 5   | 4   | 5   | 5   | 5   | 5   | 5   |
|                            | Max      | 8   | 6   | 8   | 7   | 8   | 8   | 9   |

## Hourly Averages

### High Profile Mission AHA-C

|               | Hour (Z) | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6 | 7 |
|---------------|----------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|
| Total Entries | Average  | 1 | 1 | 1  | 2  | 3  | 5  | 6  | 8  | 9  | 10 | 10 | 8  | 8  | 10 | 11 | 8  | 5  | 3  | 4  | 4  | 3  | 2  | 1 | 1 |
|               | Max      | 6 | 6 | 6  | 10 | 12 | 15 | 22 | 26 | 30 | 27 | 24 | 22 | 21 | 27 | 28 | 28 | 19 | 15 | 11 | 13 | 10 | 11 | 7 | 7 |
| Peak Load     | Average  | 1 | 1 | 1  | 1  | 2  | 2  | 2  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 2  | 2  | 2  | 2  | 1  | 1  | 1 | 1 |
|               | Max      | 4 | 4 | 4  | 5  | 5  | 5  | 6  | 7  | 7  | 8  | 8  | 7  | 7  | 9  | 7  | 7  | 7  | 5  | 5  | 5  | 6  | 5  | 4 | 4 |



# High Profile Mission AHA-C

## Weekday Hourly Averages

| High Profile Mission AHA-C |         | Hour (Z) | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5 | 6 | 7 |
|----------------------------|---------|----------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|
| Sunday                     | Average | 1        | 1 | 1 | 2  | 3  | 5  | 6  | 8  | 10 | 12 | 11 | 9  | 8  | 10 | 11 | 9  | 6  | 4  | 3  | 4  | 3  | 3  | 2 | 2 |   |
|                            | Max     | 4        | 3 | 3 | 7  | 9  | 12 | 16 | 20 | 25 | 24 | 23 | 20 | 20 | 23 | 25 | 20 | 17 | 11 | 9  | 9  | 7  | 9  | 6 | 4 |   |
| Monday                     | Average | 1        | 1 | 1 | 2  | 3  | 4  | 4  | 7  | 8  | 9  | 9  | 7  | 7  | 9  | 9  | 7  | 5  | 3  | 4  | 3  | 3  | 2  | 1 | 1 |   |
|                            | Max     | 6        | 6 | 5 | 6  | 10 | 10 | 10 | 16 | 18 | 20 | 23 | 18 | 16 | 19 | 20 | 20 | 19 | 12 | 11 | 10 | 10 | 7  | 7 | 6 |   |
| Tuesday                    | Average | 1        | 1 | 1 | 1  | 3  | 4  | 5  | 7  | 8  | 9  | 9  | 7  | 7  | 9  | 9  | 7  | 4  | 3  | 4  | 4  | 3  | 2  | 1 | 1 |   |
|                            | Max     | 6        | 5 | 4 | 6  | 9  | 10 | 12 | 22 | 22 | 23 | 19 | 17 | 19 | 19 | 17 | 17 | 17 | 1  | 15 | 10 | 11 | 9  | 8 | 5 |   |
| Wednesday                  | Average | 1        | 1 | 1 | 1  | 3  | 4  | 6  | 7  | 8  | 9  | 8  | 7  | 7  | 9  | 10 | 7  | 4  | 3  | 3  | 4  | 2  | 3  | 1 | 1 |   |
|                            | Max     | 5        | 2 | 5 | 5  | 11 | 13 | 17 | 26 | 21 | 17 | 21 | 16 | 16 | 24 | 22 | 18 | 11 | 8  | 8  | 9  | 6  | 7  | 4 | 5 |   |
| Thursday                   | Average | 2        | 1 | 1 | 2  | 3  | 5  | 6  | 8  | 8  | 11 | 11 | 8  | 8  | 10 | 10 | 8  | 4  | 3  | 4  | 4  | 3  | 3  | 1 | 2 |   |
|                            | Max     | 4        | 6 | 3 | 10 | 12 | 12 | 14 | 21 | 21 | 24 | 23 | 18 | 17 | 20 | 21 | 17 | 13 | 12 | 9  | 13 | 10 | 8  | 4 | 7 |   |
| Friday                     | Average | 1        | 1 | 1 | 2  | 3  | 4  | 6  | 7  | 9  | 11 | 9  | 7  | 9  | 10 | 11 | 8  | 5  | 3  | 3  | 4  | 3  | 2  | 1 | 2 |   |
|                            | Max     | 5        | 4 | 4 | 6  | 12 | 12 | 22 | 18 | 23 | 21 | 23 | 18 | 18 | 24 | 21 | 22 | 12 | 8  | 8  | 11 | 7  | 11 | 7 | 7 |   |
| Saturday                   | Average | 1        | 1 | 1 | 2  | 3  | 6  | 8  | 11 | 12 | 13 | 11 | 11 | 11 | 15 | 14 | 11 | 5  | 3  | 4  | 4  | 3  | 2  | 1 | 1 |   |
|                            | Max     | 5        | 4 | 6 | 4  | 9  | 15 | 20 | 21 | 30 | 27 | 24 | 22 | 21 | 27 | 28 | 28 | 15 | 8  | 11 | 10 | 9  | 6  | 6 | 5 |   |

*Top 10 and Bottom 10 values highlighted to identify most optimal/sub-optimal launch times*

2025 - Q1 2026 Launches: 4

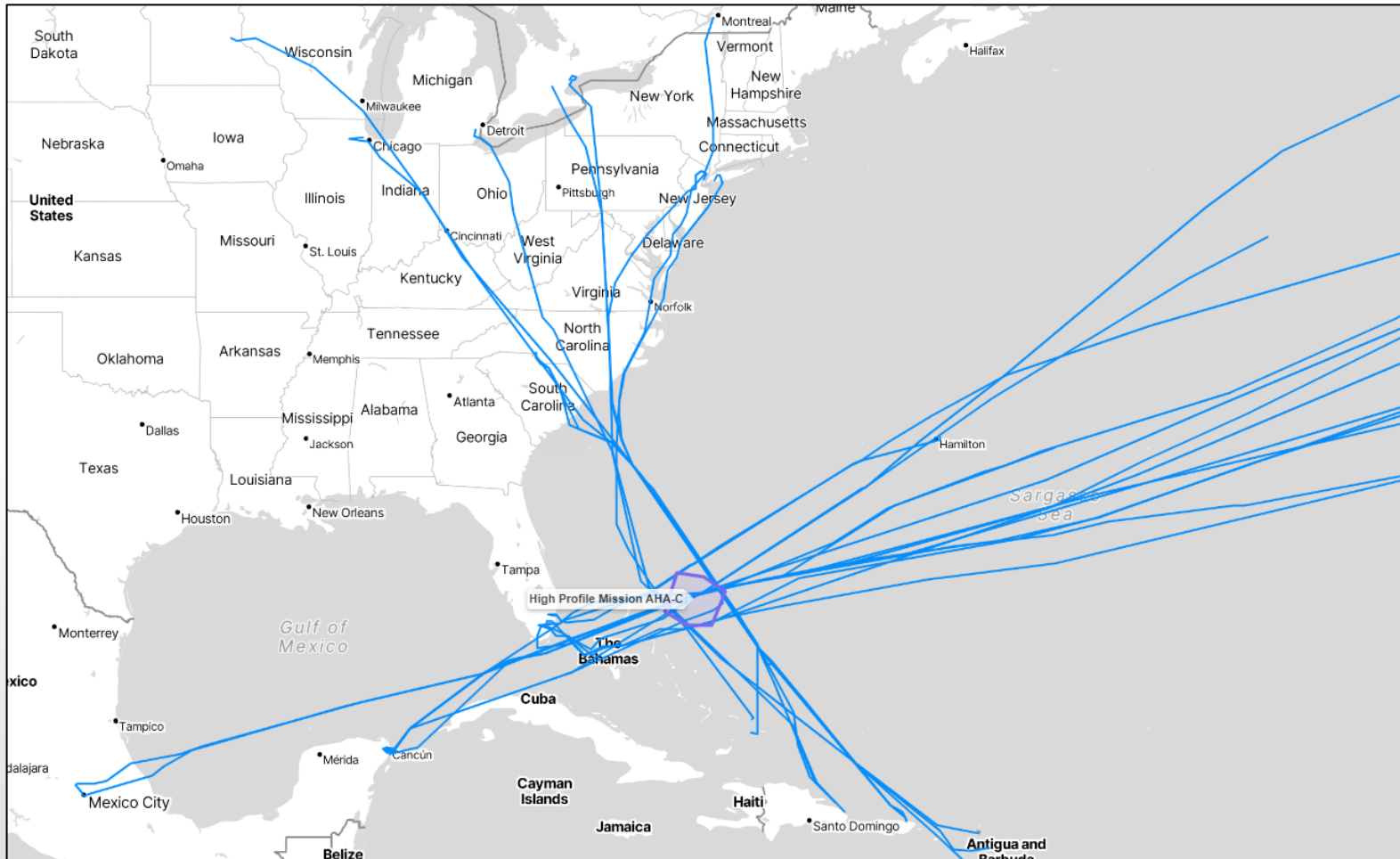
Launches During:

Low-Traffic Hours: 0 (0.0%)

High-Traffic Hours: 0 (0.0%)



# High Profile Mission AHA-C Sample Busy Hour Throughput



Time Range Shown: 02/28/2026 2100Z - 2200Z



# CCSFS GTO AHA-A

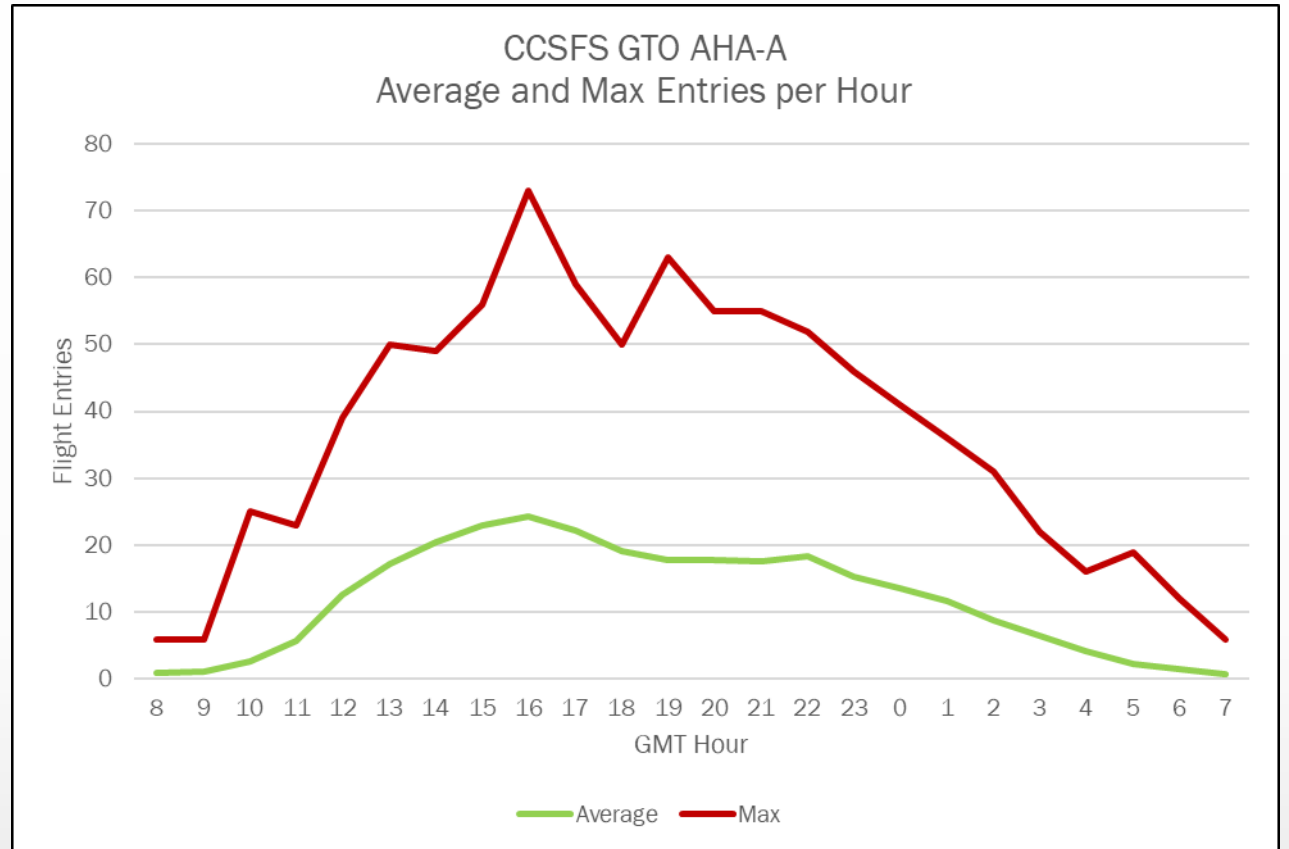
## Weekday Averages

| CCSFS GTO AHA-A |         |     |     |     |     |     |     |     |
|-----------------|---------|-----|-----|-----|-----|-----|-----|-----|
| Hour (Z)        |         | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| Total Entries   | Average | 326 | 281 | 234 | 246 | 292 | 299 | 321 |
|                 | Max     | 541 | 429 | 429 | 442 | 507 | 525 | 548 |
| Peak Load       | Average | 5   | 5   | 5   | 5   | 5   | 5   | 0   |
|                 | Max     | 7   | 8   | 9   | 8   | 8   | 8   | 8   |

## Hourly Averages

### CCSFS GTO AHA-A

| Hour (Z)      |         | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7 |
|---------------|---------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| Total Entries | Average | 1 | 1 | 3  | 6  | 13 | 17 | 20 | 23 | 24 | 22 | 19 | 18 | 18 | 18 | 18 | 15 | 14 | 12 | 9  | 6  | 4  | 2  | 2  | 1 |
|               | Max     | 6 | 6 | 25 | 23 | 39 | 50 | 49 | 56 | 73 | 59 | 50 | 63 | 55 | 55 | 52 | 46 | 41 | 36 | 31 | 22 | 16 | 19 | 12 | 6 |
| Peak Load     | Average | 1 | 1 | 1  | 1  | 2  | 3  | 3  | 4  | 4  | 4  | 3  | 3  | 3  | 3  | 3  | 3  | 2  | 2  | 2  | 2  | 1  | 1  | 1  | 1 |
|               | Max     | 4 | 3 | 3  | 5  | 6  | 6  | 7  | 8  | 9  | 8  | 8  | 7  | 6  | 6  | 8  | 6  | 7  | 5  | 4  | 4  | 4  | 3  | 3  | 3 |



# CCSFS GTO AHA-A

## Weekday Hourly Averages

### CCSFS GTO AHA-A

| Hour (Z)  |         | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7 |
|-----------|---------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| Sunday    | Average | 1 | 1 | 2  | 6  | 14 | 19 | 23 | 26 | 28 | 26 | 24 | 22 | 20 | 19 | 20 | 17 | 14 | 13 | 9  | 6  | 4  | 2  | 1  | 1 |
|           | Max     | 4 | 3 | 10 | 18 | 39 | 45 | 45 | 56 | 55 | 58 | 50 | 63 | 55 | 52 | 52 | 46 | 34 | 33 | 27 | 17 | 11 | 8  | 7  | 3 |
| Monday    | Average | 1 | 1 | 2  | 6  | 14 | 19 | 21 | 23 | 22 | 17 | 16 | 16 | 17 | 18 | 14 | 16 | 14 | 10 | 7  | 5  | 3  | 2  | 2  | 1 |
|           | Max     | 6 | 4 | 11 | 23 | 31 | 44 | 42 | 41 | 51 | 47 | 42 | 35 | 55 | 35 | 30 | 41 | 36 | 28 | 20 | 13 | 13 | 19 | 12 | 6 |
| Tuesday   | Average | 1 | 2 | 3  | 5  | 11 | 15 | 17 | 19 | 20 | 18 | 15 | 13 | 14 | 14 | 16 | 12 | 14 | 12 | 10 | 7  | 4  | 3  | 2  | 1 |
|           | Max     | 6 | 6 | 7  | 16 | 30 | 36 | 36 | 42 | 49 | 59 | 42 | 35 | 32 | 32 | 38 | 31 | 36 | 29 | 31 | 22 | 12 | 11 | 7  | 4 |
| Wednesday | Average | 1 | 2 | 2  | 5  | 11 | 15 | 18 | 18 | 20 | 19 | 16 | 15 | 16 | 16 | 16 | 13 | 11 | 9  | 7  | 5  | 3  | 2  | 1  | 1 |
|           | Max     | 4 | 6 | 6  | 14 | 34 | 30 | 38 | 43 | 46 | 55 | 34 | 42 | 37 | 41 | 36 | 33 | 28 | 21 | 21 | 15 | 14 | 9  | 5  | 4 |
| Thursday  | Average | 1 | 1 | 3  | 5  | 12 | 17 | 20 | 23 | 24 | 21 | 19 | 18 | 18 | 19 | 20 | 17 | 12 | 11 | 7  | 5  | 4  | 2  | 1  | 1 |
|           | Max     | 5 | 5 | 7  | 13 | 36 | 49 | 42 | 54 | 57 | 39 | 33 | 41 | 47 | 43 | 41 | 36 | 31 | 24 | 20 | 14 | 10 | 7  | 5  | 3 |
| Friday    | Average | 1 | 1 | 3  | 6  | 12 | 16 | 19 | 24 | 26 | 24 | 20 | 18 | 19 | 19 | 21 | 17 | 14 | 11 | 10 | 7  | 5  | 3  | 2  | 1 |
|           | Max     | 6 | 5 | 10 | 13 | 29 | 42 | 38 | 49 | 73 | 57 | 34 | 42 | 45 | 40 | 49 | 42 | 31 | 25 | 25 | 19 | 16 | 8  | 6  | 4 |
| Saturday  | Average | 1 | 1 | 3  | 7  | 14 | 19 | 25 | 27 | 30 | 26 | 23 | 21 | 21 | 19 | 19 | 16 | 14 | 12 | 10 | 7  | 5  | 2  | 1  | 1 |
|           | Max     | 4 | 4 | 25 | 23 | 34 | 50 | 49 | 52 | 51 | 47 | 49 | 49 | 55 | 43 | 42 | 35 | 34 | 27 | 20 | 19 | 16 | 12 | 6  | 4 |

*Top 10 and Bottom 10 values highlighted to identify most optimal/sub-optimal launch times*

2025 - Q1 2026 Launches: 6

Launches During:

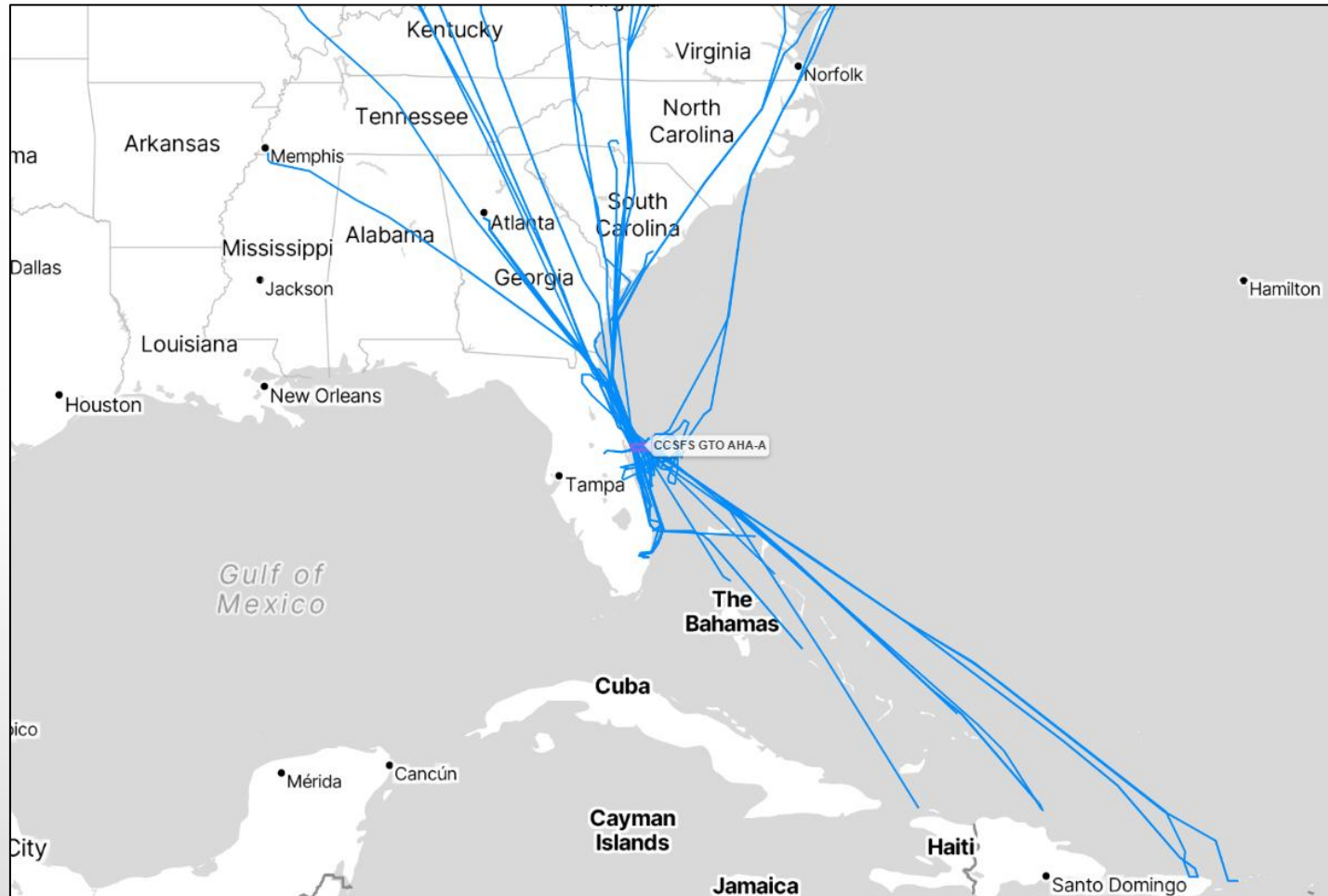
Low-Traffic Hours: 0 (0.0%)

High-Traffic Hours: 0 (0.0%)



# CCSFS GTO AHA-A

## Sample Busy Hour Throughput



Time Range Shown: 03/24/2026 1600Z - 1700Z



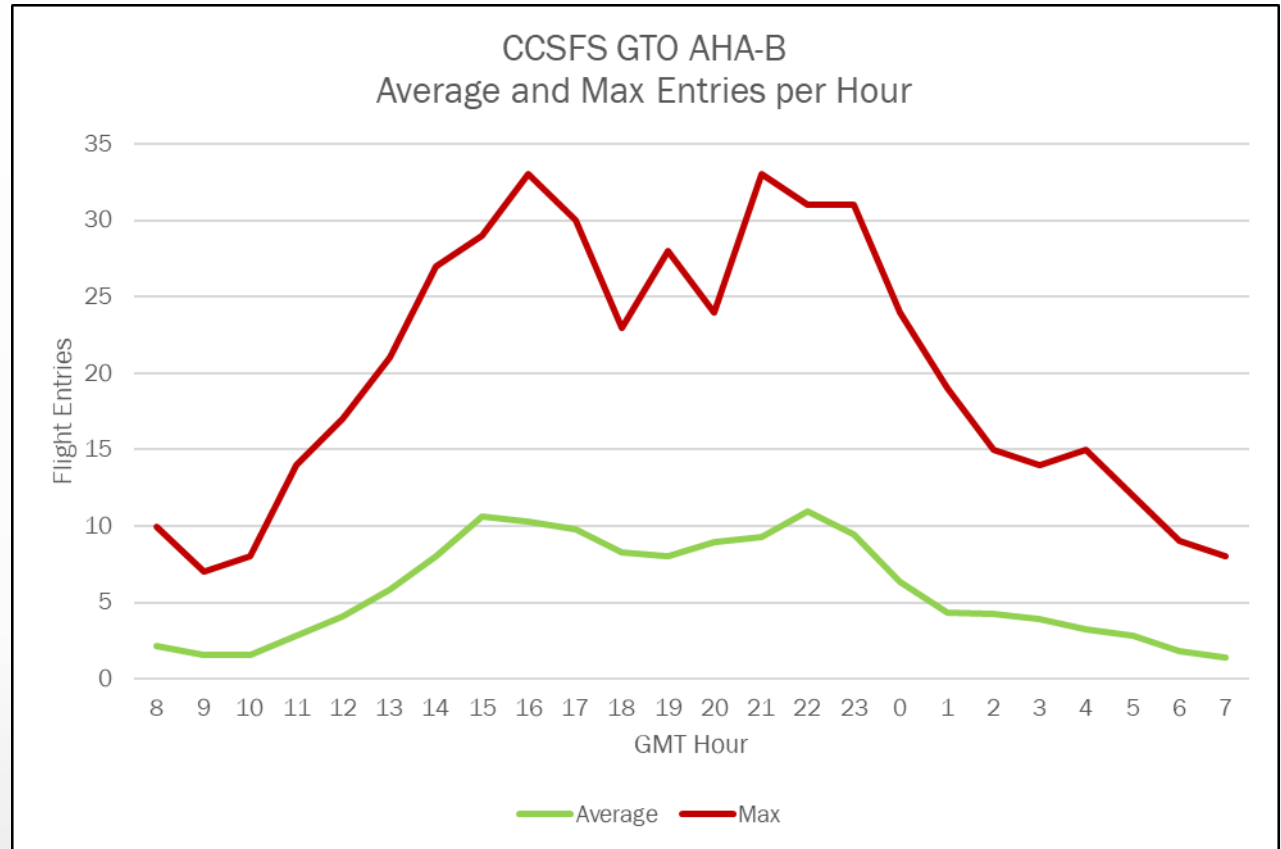
# CCSFS GTO AHA-B

## Weekday Averages

| CCSFS GTO AHA-B |         |     |     |     |     |     |     |     |
|-----------------|---------|-----|-----|-----|-----|-----|-----|-----|
| Hour (Z)        |         | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| Total Entries   | Average | 145 | 131 | 127 | 124 | 137 | 145 | 171 |
|                 | Max     | 322 | 255 | 251 | 210 | 272 | 258 | 303 |
| Peak Load       | Average | 5   | 4   | 4   | 4   | 4   | 4   | 5   |
|                 | Max     | 7   | 8   | 6   | 7   | 8   | 7   | 7   |

## Hourly Averages

| CCSFS GTO AHA-B |         |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |
|-----------------|---------|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|
| Hour (Z)        |         | 8  | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6 | 7 |
| Total Entries   | Average | 2  | 2 | 2  | 3  | 4  | 6  | 8  | 11 | 10 | 10 | 8  | 8  | 9  | 9  | 11 | 9  | 6  | 4  | 4  | 4  | 3  | 3  | 2 | 1 |
|                 | Max     | 10 | 7 | 8  | 14 | 17 | 21 | 27 | 29 | 33 | 30 | 23 | 28 | 24 | 33 | 31 | 31 | 24 | 19 | 15 | 14 | 15 | 12 | 9 | 8 |
| Peak Load       | Average | 1  | 1 | 1  | 1  | 2  | 2  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 2  | 2  | 2  | 2  | 2  | 1  | 1 | 1 |
|                 | Max     | 4  | 4 | 4  | 4  | 5  | 6  | 6  | 8  | 7  | 7  | 7  | 7  | 6  | 7  | 7  | 7  | 6  | 8  | 6  | 5  | 4  | 5  | 4 | 3 |



# CCSFS GTO AHA-B

## Weekday Hourly Averages

### CCSFS GTO AHA-B

| Hour (Z)  |         | 8  | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6 | 7 |
|-----------|---------|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|
| Sunday    | Average | 2  | 2 | 8  | 3  | 4  | 6  | 8  | 11 | 11 | 11 | 9  | 8  | 9  | 10 | 12 | 9  | 8  | 6  | 5  | 4  | 4  | 3  | 2 | 1 |
|           | Max     | 8  | 5 | 7  | 9  | 13 | 20 | 22 | 28 | 27 | 23 | 21 | 15 | 24 | 33 | 31 | 26 | 23 | 19 | 13 | 11 | 15 | 11 | 6 | 6 |
| Monday    | Average | 2  | 2 | 1  | 3  | 4  | 6  | 7  | 10 | 10 | 9  | 8  | 8  | 8  | 9  | 9  | 9  | 7  | 5  | 4  | 3  | 3  | 3  | 2 | 1 |
|           | Max     | 8  | 7 | 5  | 9  | 13 | 13 | 17 | 22 | 21 | 24 | 16 | 18 | 21 | 22 | 19 | 31 | 24 | 18 | 15 | 8  | 10 | 10 | 6 | 5 |
| Tuesday   | Average | 2  | 1 | 2  | 3  | 4  | 6  | 8  | 10 | 9  | 9  | 8  | 8  | 8  | 8  | 9  | 8  | 6  | 4  | 4  | 4  | 3  | 3  | 2 | 1 |
|           | Max     | 8  | 5 | 8  | 12 | 11 | 20 | 19 | 24 | 20 | 20 | 17 | 19 | 24 | 19 | 19 | 23 | 21 | 14 | 14 | 12 | 12 | 12 | 7 | 7 |
| Wednesday | Average | 2  | 1 | 2  | 2  | 3  | 5  | 8  | 10 | 8  | 9  | 7  | 7  | 8  | 8  | 10 | 9  | 5  | 4  | 4  | 4  | 3  | 3  | 2 | 1 |
|           | Max     | 7  | 5 | 8  | 8  | 13 | 14 | 23 | 23 | 20 | 19 | 16 | 17 | 21 | 18 | 24 | 22 | 15 | 16 | 12 | 12 | 10 | 11 | 8 | 4 |
| Thursday  | Average | 2  | 1 | 1  | 3  | 4  | 5  | 7  | 10 | 10 | 10 | 8  | 7  | 8  | 8  | 11 | 9  | 5  | 3  | 4  | 4  | 3  | 3  | 2 | 2 |
|           | Max     | 6  | 6 | 6  | 9  | 10 | 14 | 18 | 28 | 24 | 30 | 19 | 28 | 24 | 21 | 25 | 22 | 15 | 10 | 11 | 10 | 14 | 8  | 7 | 8 |
| Friday    | Average | 2  | 2 | 2  | 4  | 5  | 6  | 9  | 12 | 11 | 9  | 8  | 8  | 9  | 9  | 12 | 10 | 6  | 5  | 5  | 5  | 4  | 3  | 2 | 2 |
|           | Max     | 10 | 7 | 7  | 14 | 17 | 21 | 24 | 25 | 24 | 19 | 19 | 21 | 17 | 25 | 22 | 23 | 16 | 12 | 15 | 14 | 15 | 11 | 9 | 8 |
| Saturday  | Average | 2  | 1 | 2  | 3  | 5  | 7  | 10 | 13 | 13 | 12 | 10 | 10 | 12 | 13 | 14 | 12 | 7  | 4  | 4  | 4  | 3  | 3  | 2 | 1 |
|           | Max     | 7  | 5 | 7  | 9  | 11 | 20 | 27 | 29 | 33 | 27 | 23 | 24 | 24 | 23 | 28 | 27 | 21 | 13 | 11 | 10 | 11 | 7  | 8 | 5 |

*Top 10 and Bottom 10 values highlighted to identify most optimal/sub-optimal launch times*

2025 - Q1 2026 Launches: 6

Launches During:

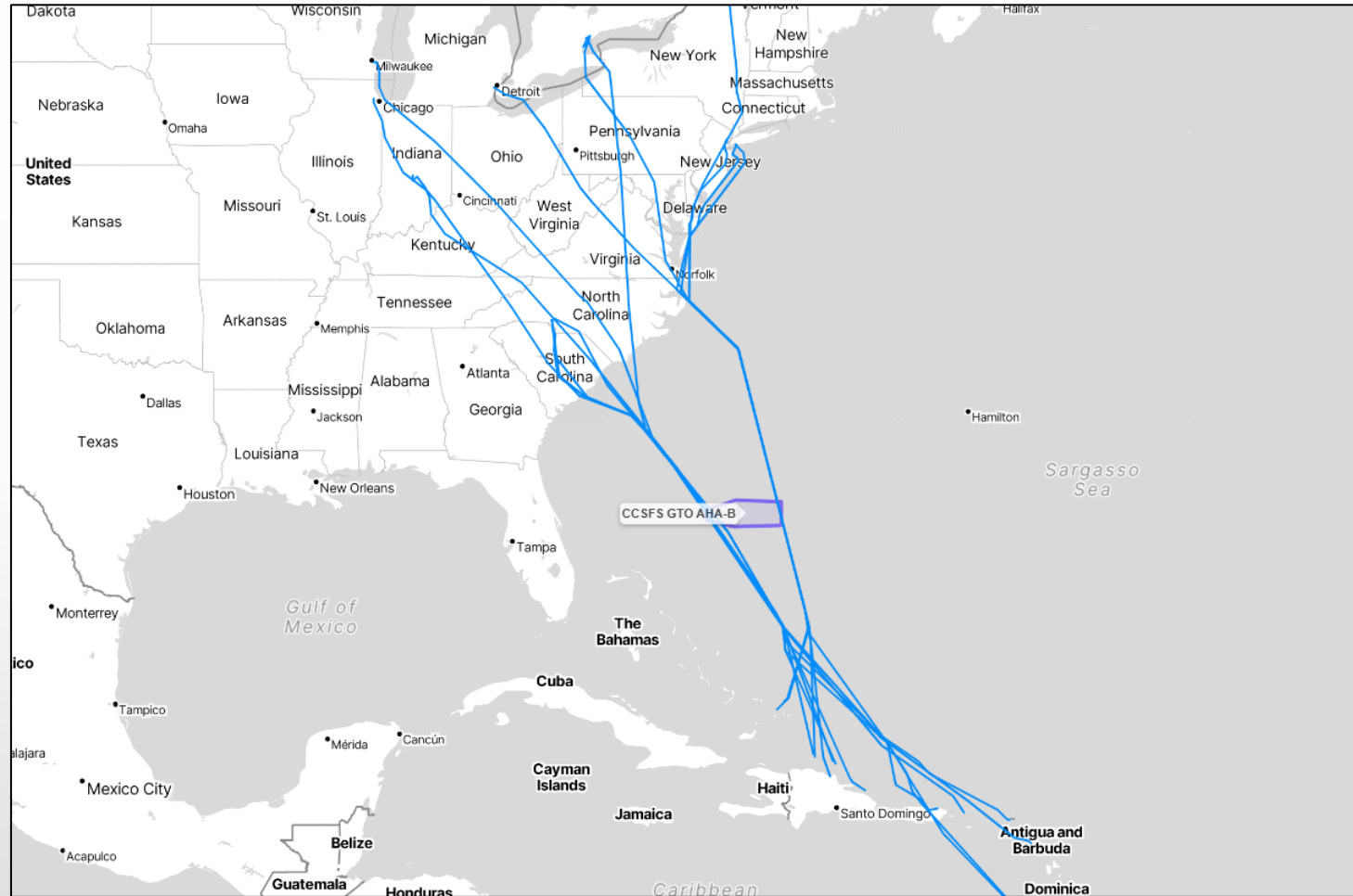
Low-Traffic Hours: 0 (0.0%)

High-Traffic Hours: 0 (0.0%)



# CCSFS GTO AHA-B

## Sample Busy Hour Throughput



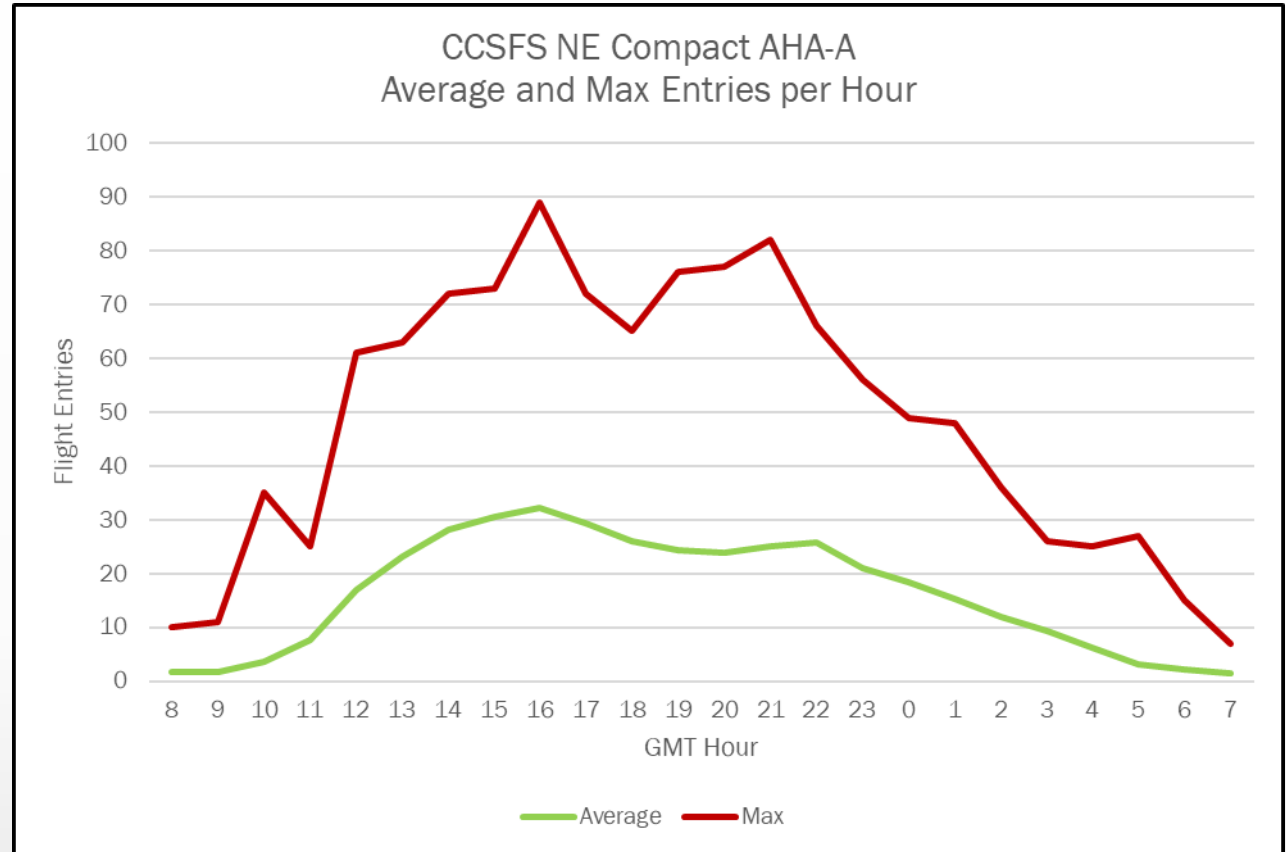
Time Range Shown: 03/27/2026 1500Z - 1600Z



# NE Compact AHA-A

## Weekday Averages

| CCSFS NE Compact AHA-A |         |     |     |     |     |     |     |     |
|------------------------|---------|-----|-----|-----|-----|-----|-----|-----|
| Hour (Z)               |         | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| Total Entries          | Average | 445 | 382 | 322 | 339 | 394 | 404 | 442 |
|                        | Max     | 750 | 583 | 673 | 554 | 703 | 685 | 728 |
| Peak Load              | Average | 8   | 8   | 7   | 7   | 8   | 8   | 8   |
|                        | Max     | 15  | 14  | 11  | 13  | 12  | 19  | 14  |



## Hourly Averages

### CCSFS NE Compact AHA-A

| Hour (Z)      |         | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7 |
|---------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| Total Entries | Average | 2  | 2  | 4  | 8  | 17 | 23 | 28 | 31 | 32 | 29 | 26 | 24 | 24 | 25 | 26 | 21 | 18 | 15 | 12 | 9  | 6  | 3  | 2  | 2 |
|               | Max     | 10 | 11 | 35 | 25 | 61 | 63 | 72 | 73 | 89 | 72 | 65 | 76 | 77 | 82 | 66 | 56 | 49 | 48 | 36 | 26 | 25 | 27 | 15 | 7 |
| Peak Load     | Average | 1  | 1  | 1  | 2  | 3  | 4  | 5  | 6  | 6  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 4  | 4  | 3  | 3  | 2  | 1  | 1  | 1 |
|               | Max     | 4  | 3  | 11 | 8  | 9  | 10 | 11 | 16 | 19 | 14 | 11 | 12 | 15 | 14 | 13 | 13 | 10 | 8  | 7  | 7  | 6  | 5  | 4  | 4 |



# NE Compact AHA-A

## Weekday Hourly Averages

### CCSFS NE Compact AHA-A

| Hour (Z)  |         | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  |    |    |    |    |    |   |
|-----------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| Sunday    | Average | 2  | 1  | 1  | 8  | 1  | 9  | 1  | 20 | 25 | 32 | 1  | 35 | 1  | 37 | 34 | 1  | 32 | 31 | 27 | 28 | 27 | 24 | 20 | 16 | 13 | 9  | 6  | 3  | 2  | 2 |
|           | Max     | 5  | 1  | 4  | 11 | 1  | 22 | 1  | 61 | 63 | 68 | 1  | 61 | 1  | 67 | 72 | 1  | 65 | 76 | 77 | 65 | 66 | 56 | 45 | 37 | 36 | 20 | 16 | 8  | 9  | 4 |
| Monday    | Average | 2  | 1  | 3  | 3  | 18 | 26 | 29 | 31 | 31 | 29 | 24 | 21 | 21 | 24 | 25 | 19 | 21 | 18 | 13 | 10 | 6  | 4  | 3  | 2  | 1  | 10 | 6  | 4  | 3  | 2 |
|           | Max     | 10 | 6  | 14 | 24 | 47 | 60 | 52 | 52 | 64 | 63 | 49 | 48 | 48 | 82 | 50 | 38 | 49 | 48 | 31 | 26 | 25 | 27 | 15 | 15 | 31 | 26 | 25 | 27 | 15 | 7 |
| Tuesday   | Average | 2  | 2  | 4  | 7  | 14 | 20 | 24 | 25 | 26 | 24 | 21 | 18 | 19 | 21 | 22 | 18 | 19 | 16 | 13 | 9  | 6  | 3  | 2  | 2  | 13 | 9  | 6  | 3  | 2  |   |
|           | Max     | 8  | 7  | 10 | 21 | 40 | 56 | 72 | 51 | 56 | 72 | 56 | 52 | 40 | 50 | 51 | 36 | 41 | 37 | 31 | 22 | 21 | 11 | 8  | 8  | 31 | 22 | 21 | 11 | 8  |   |
| Wednesday | Average | 2  | 3  | 3  | 7  | 15 | 21 | 24 | 24 | 26 | 24 | 22 | 21 | 21 | 23 | 23 | 19 | 14 | 12 | 9  | 8  | 5  | 2  | 2  | 9  | 8  | 5  | 2  | 2  | 2  |   |
|           | Max     | 6  | 11 | 9  | 21 | 35 | 37 | 46 | 48 | 61 | 57 | 47 | 54 | 42 | 48 | 48 | 36 | 33 | 28 | 24 | 20 | 18 | 12 | 6  | 24 | 20 | 18 | 12 | 6  | 6  |   |
| Thursday  | Average | 2  | 2  | 4  | 7  | 16 | 23 | 27 | 30 | 32 | 28 | 26 | 25 | 24 | 26 | 28 | 22 | 16 | 15 | 10 | 8  | 6  | 3  | 2  | 1  | 10 | 8  | 6  | 3  | 2  |   |
|           | Max     | 5  | 6  | 10 | 21 | 42 | 54 | 48 | 61 | 75 | 52 | 47 | 50 | 54 | 56 | 55 | 42 | 38 | 28 | 22 | 18 | 13 | 10 | 7  | 22 | 18 | 13 | 10 | 7  | 6  |   |
| Friday    | Average | 2  | 2  | 4  | 7  | 16 | 22 | 27 | 32 | 34 | 31 | 27 | 26 | 26 | 27 | 29 | 22 | 19 | 15 | 13 | 11 | 7  | 4  | 2  | 13 | 11 | 7  | 4  | 2  | 2  |   |
|           | Max     | 7  | 6  | 9  | 16 | 35 | 49 | 50 | 73 | 89 | 68 | 48 | 57 | 56 | 53 | 61 | 53 | 40 | 28 | 27 | 25 | 20 | 11 | 7  | 27 | 25 | 20 | 11 | 7  | 6  |   |
| Saturday  | Average | 2  | 2  | 4  | 9  | 19 | 26 | 34 | 37 | 40 | 35 | 30 | 29 | 28 | 27 | 27 | 23 | 20 | 16 | 13 | 11 | 7  | 3  | 2  | 13 | 11 | 7  | 3  | 2  | 1  |   |
|           | Max     | 5  | 6  | 35 | 25 | 43 | 60 | 67 | 72 | 64 | 63 | 58 | 69 | 63 | 67 | 57 | 46 | 46 | 40 | 22 | 24 | 17 | 13 | 9  | 22 | 24 | 17 | 13 | 9  | 4  |   |

*Top 10 and Bottom 10 values highlighted to identify most optimal/sub-optimal launch times*

2025 - Q1 2026 Launches: 38

Launches During:

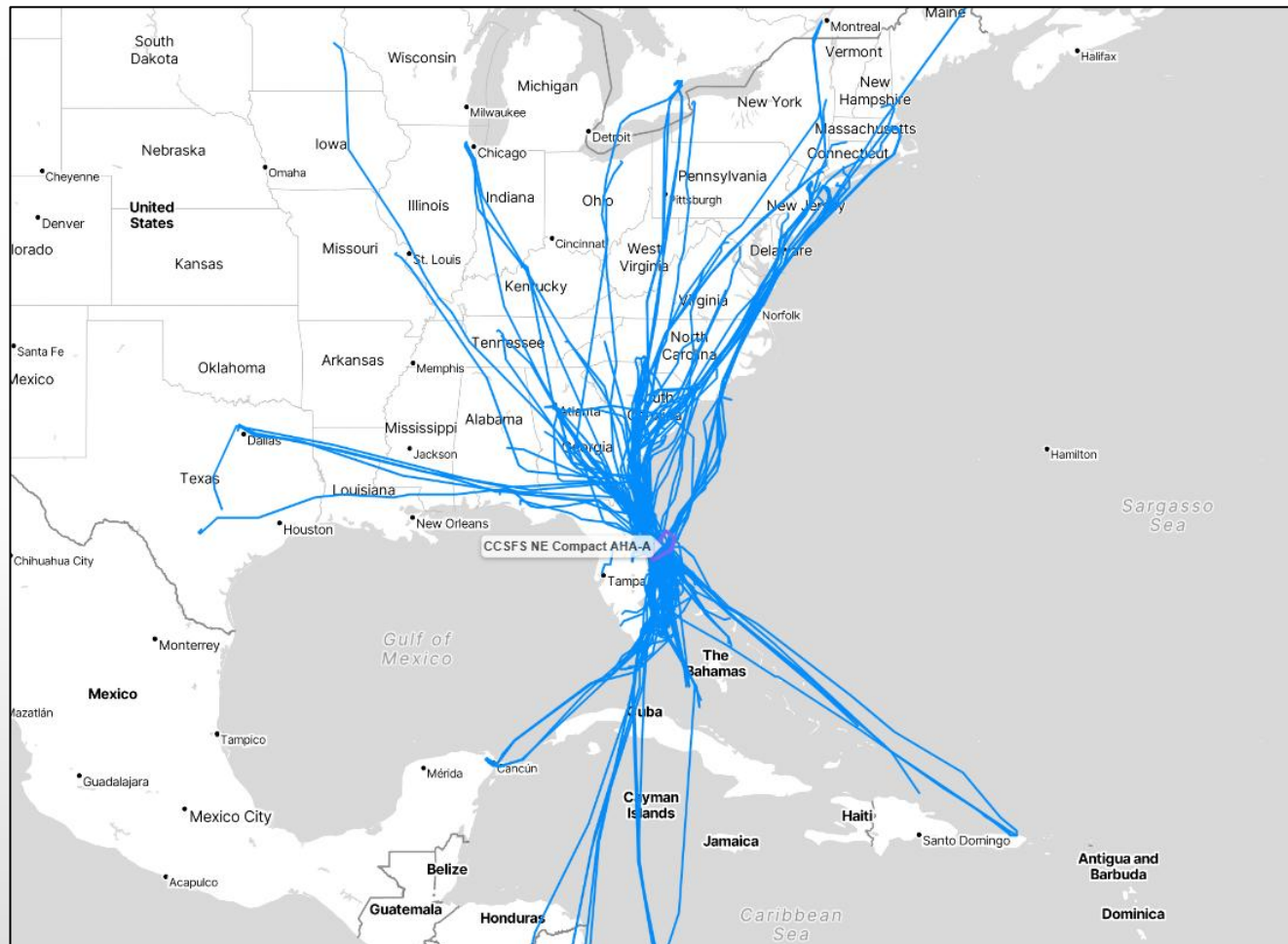
Low-Traffic Hours: 3 (7.9%)

High-Traffic Hours: 5 (13.2%)



# NE Compact AHA-A

## Sample Busy Hour Throughput



Time Range Shown: 08/22/2025 1600Z - 1700Z



# NE Compact AHA-B

## Weekday Averages

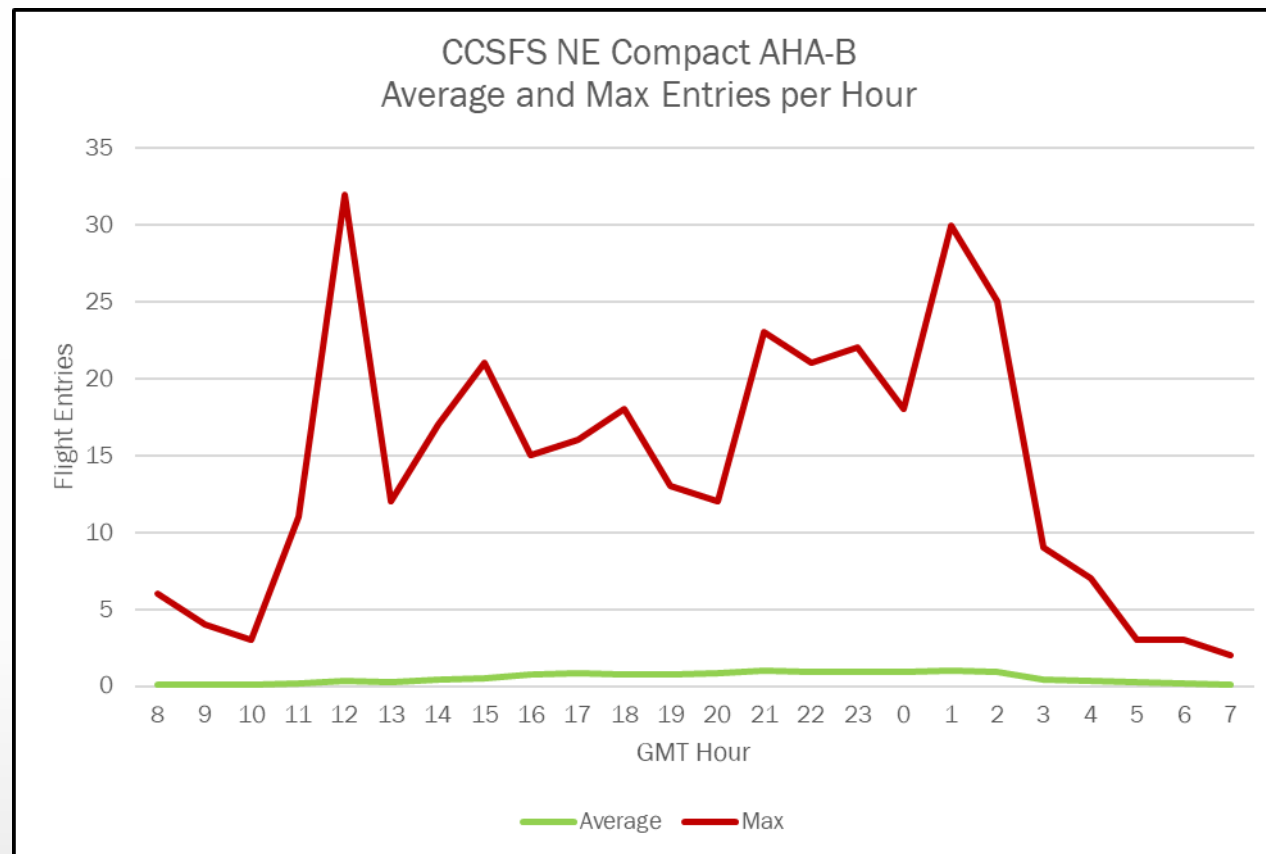
### CCSFS NE Compact AHA-B

| Hour (Z)      |         | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|---------------|---------|-----|-----|-----|-----|-----|-----|-----|
| Total Entries | Average | 18  | 11  | 8   | 14  | 13  | 13  | 14  |
|               | Max     | 193 | 60  | 35  | 92  | 70  | 155 | 120 |
| Peak Load     | Average | 3   | 2   | 2   | 2   | 2   | 2   | 2   |
|               | Max     | 14  | 10  | 6   | 9   | 7   | 10  | 7   |

## Hourly Averages

### CCSFS NE Compact AHA-B

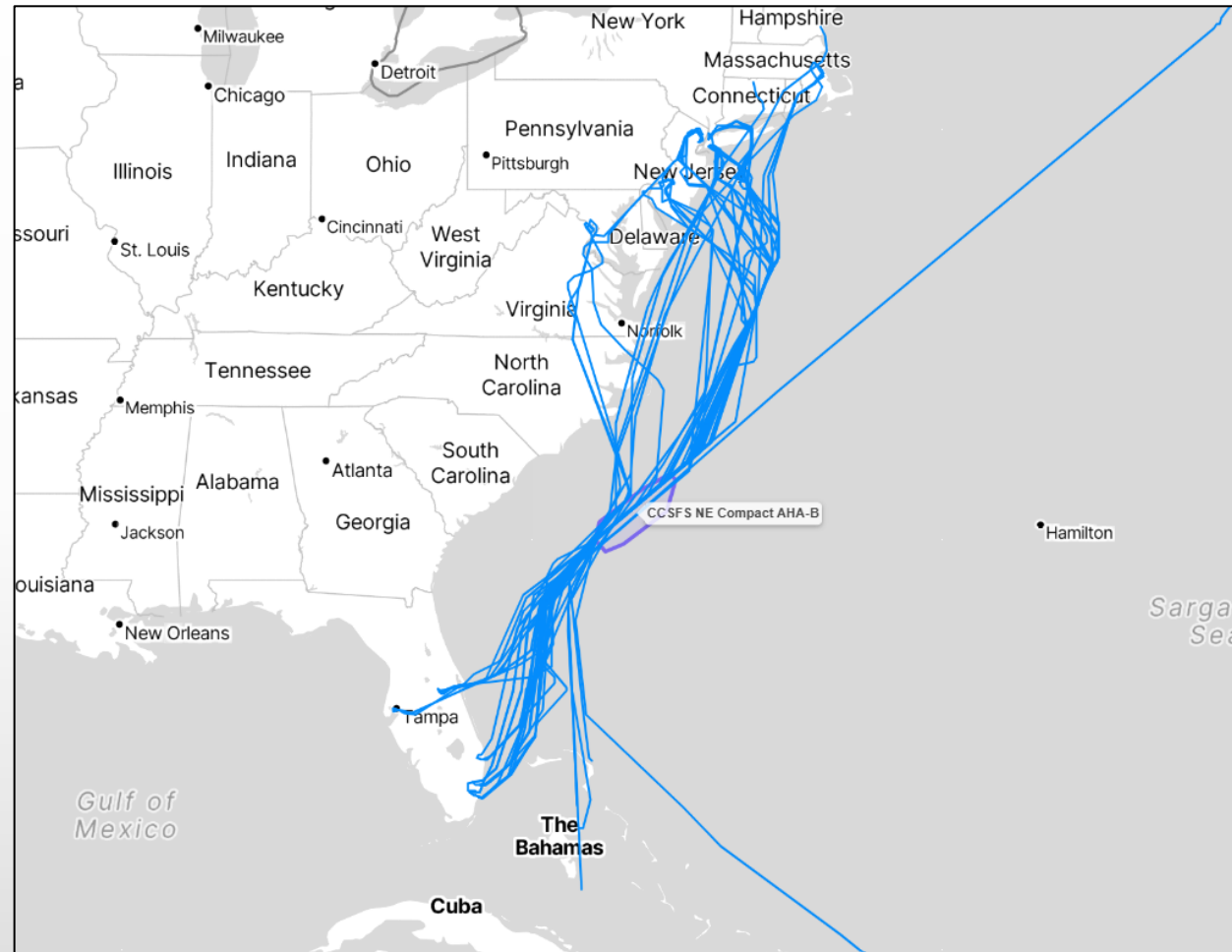
| Hour (Z)      |         | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3 | 4 | 5 | 6 | 7 |
|---------------|---------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|
| Total Entries | Average | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 0 | 0 | 0 | 0 | 0 |
|               | Max     | 6 | 4 | 3  | 11 | 32 | 12 | 17 | 21 | 15 | 16 | 18 | 13 | 12 | 23 | 21 | 22 | 18 | 30 | 25 | 9 | 7 | 3 | 3 | 2 |
| Peak Load     | Average | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 0 | 0 | 0 | 0 | 0 |
|               | Max     | 2 | 2 | 2  | 8  | 14 | 6  | 6  | 9  | 8  | 10 | 8  | 9  | 7  | 10 | 10 | 7  | 8  | 10 | 9  | 7 | 5 | 3 | 2 | 2 |





# NE Compact AHA-B

## Sample Busy Hour Throughput



Time Range Shown: 05/11/2025 1200Z - 1300Z



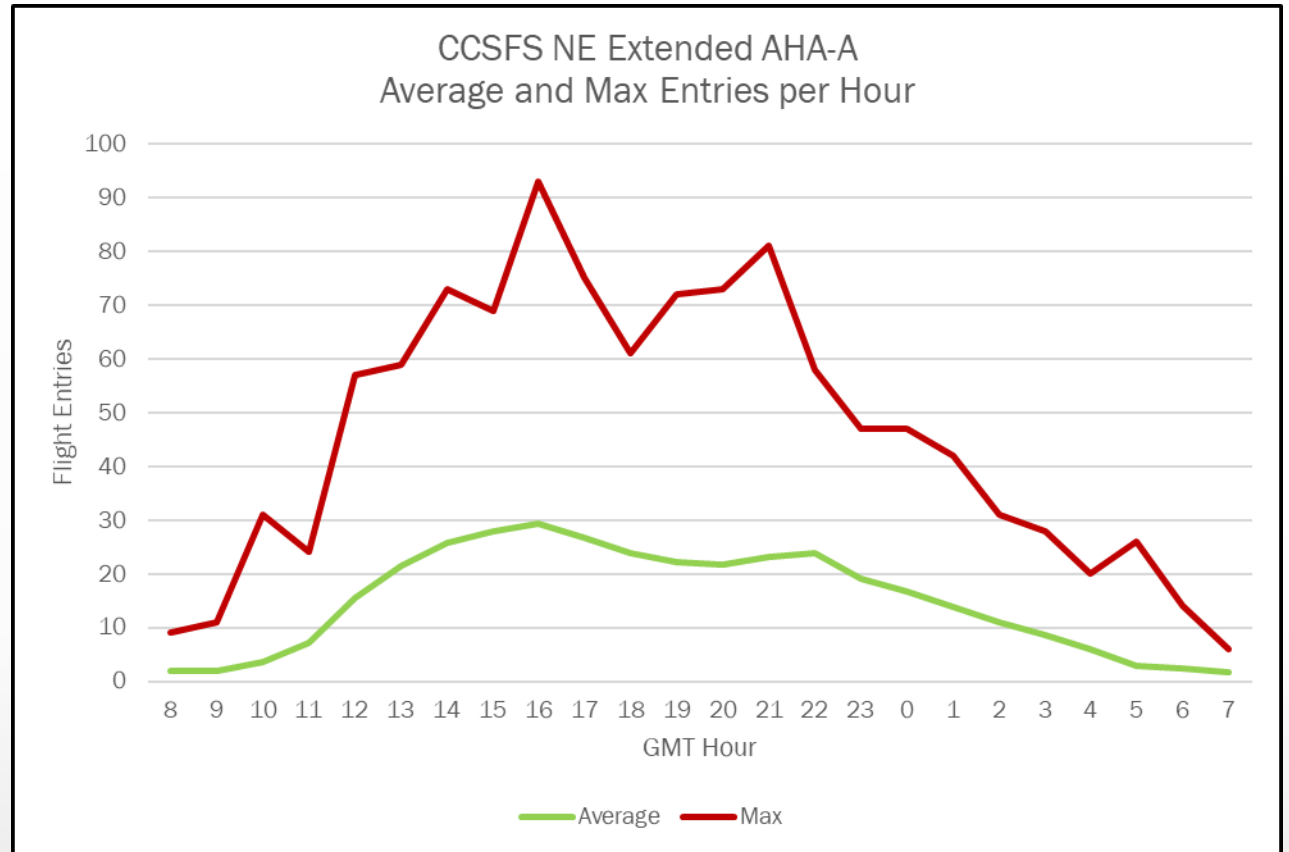
# NE Extended AHA-A

## Weekday Averages

| CCSFS NE Extended AHA-A |         |     |     |     |     |     |     |     |
|-------------------------|---------|-----|-----|-----|-----|-----|-----|-----|
| Hour (Z)                |         | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| Total Entries           | Average | 411 | 351 | 295 | 309 | 362 | 371 | 409 |
|                         | Max     | 697 | 550 | 639 | 499 | 674 | 645 | 694 |
| Peak Load               | Average | 7   | 7   | 7   | 7   | 7   | 8   | 8   |
|                         | Max     | 14  | 15  | 12  | 13  | 11  | 18  | 14  |

## Hourly Averages

| CCSFS NE Extended AHA-A |         |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|-------------------------|---------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| Hour (Z)                |         | 8 | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7 |
| Total Entries           | Average | 2 | 2  | 4  | 7  | 16 | 22 | 26 | 28 | 29 | 27 | 24 | 22 | 22 | 23 | 24 | 19 | 17 | 14 | 11 | 9  | 6  | 3  | 2  | 2 |
|                         | Max     | 9 | 11 | 31 | 24 | 57 | 59 | 73 | 69 | 93 | 75 | 61 | 72 | 73 | 81 | 58 | 47 | 47 | 42 | 31 | 28 | 20 | 26 | 14 | 6 |
| Peak Load               | Average | 1 | 1  | 1  | 2  | 3  | 4  | 5  | 5  | 6  | 5  | 5  | 5  | 5  | 5  | 5  | 4  | 4  | 3  | 3  | 3  | 2  | 1  | 1  | 1 |
|                         | Max     | 4 | 3  | 11 | 7  | 11 | 10 | 12 | 15 | 18 | 14 | 11 | 10 | 14 | 15 | 12 | 13 | 10 | 8  | 8  | 7  | 6  | 5  | 4  | 4 |



# NE Extended AHA-A

## Weekday Hourly Averages

### CCSFS NE Extended AHA-A

| Hour (Z)  |         | 8 | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7 |
|-----------|---------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| Sunday    | Average | 2 | 1  | 8  | 8  | 18 | 24 | 29 | 32 | 34 | 31 | 30 | 28 | 25 | 26 | 26 | 21 | 18 | 15 | 11 | 8  | 5  | 3  | 2  | 2 |
|           | Max     | 5 | 5  | 12 | 24 | 57 | 59 | 60 | 58 | 60 | 75 | 61 | 72 | 73 | 63 | 51 | 47 | 42 | 37 | 29 | 19 | 14 | 8  | 8  | 5 |
| Monday    | Average | 2 | 2  | 3  | 8  | 17 | 23 | 27 | 28 | 28 | 26 | 22 | 19 | 19 | 22 | 22 | 17 | 19 | 16 | 12 | 10 | 6  | 4  | 3  | 2 |
|           | Max     | 9 | 6  | 12 | 22 | 53 | 59 | 48 | 48 | 62 | 66 | 49 | 49 | 42 | 81 | 50 | 35 | 47 | 41 | 31 | 28 | 20 | 26 | 14 | 6 |
| Tuesday   | Average | 2 | 2  | 4  | 7  | 13 | 19 | 22 | 23 | 23 | 22 | 18 | 17 | 18 | 19 | 20 | 16 | 17 | 14 | 12 | 9  | 6  | 3  | 2  | 2 |
|           | Max     | 8 | 6  | 10 | 18 | 36 | 49 | 73 | 48 | 46 | 73 | 51 | 48 | 41 | 41 | 52 | 39 | 43 | 38 | 29 | 20 | 19 | 11 | 7  | 4 |
| Wednesday | Average | 2 | 3  | 3  | 6  | 13 | 19 | 22 | 22 | 23 | 22 | 20 | 19 | 19 | 21 | 21 | 17 | 13 | 11 | 9  | 7  | 5  | 2  | 2  | 2 |
|           | Max     | 6 | 11 | 8  | 19 | 31 | 35 | 41 | 43 | 58 | 57 | 43 | 51 | 38 | 46 | 45 | 32 | 28 | 25 | 23 | 18 | 18 | 13 | 6  | 6 |
| Thursday  | Average | 2 | 2  | 4  | 7  | 14 | 21 | 24 | 27 | 29 | 25 | 24 | 23 | 22 | 24 | 26 | 21 | 14 | 13 | 10 | 8  | 6  | 3  | 2  | 2 |
|           | Max     | 5 | 6  | 10 | 17 | 40 | 53 | 43 | 58 | 71 | 50 | 47 | 45 | 50 | 53 | 53 | 42 | 36 | 26 | 22 | 18 | 13 | 8  | 7  | 6 |
| Friday    | Average | 2 | 2  | 4  | 7  | 15 | 20 | 25 | 29 | 31 | 28 | 25 | 23 | 23 | 24 | 27 | 20 | 17 | 13 | 12 | 10 | 7  | 3  | 3  | 2 |
|           | Max     | 7 | 6  | 9  | 15 | 30 | 44 | 46 | 59 | 93 | 64 | 46 | 59 | 51 | 51 | 58 | 45 | 40 | 42 | 25 | 23 | 18 | 9  | 7  | 6 |
| Saturday  | Average | 2 | 2  | 4  | 9  | 18 | 24 | 32 | 35 | 37 | 32 | 28 | 27 | 26 | 25 | 25 | 21 | 18 | 14 | 12 | 10 | 6  | 3  | 2  | 1 |
|           | Max     | 5 | 6  | 31 | 24 | 43 | 55 | 60 | 69 | 62 | 58 | 55 | 60 | 65 | 64 | 54 | 42 | 44 | 31 | 22 | 22 | 15 | 13 | 9  | 5 |

*Top 10 and Bottom 10 values highlighted to identify most optimal/sub-optimal launch times*

2025 - Q1 2026 Launches: 5

Launches During:

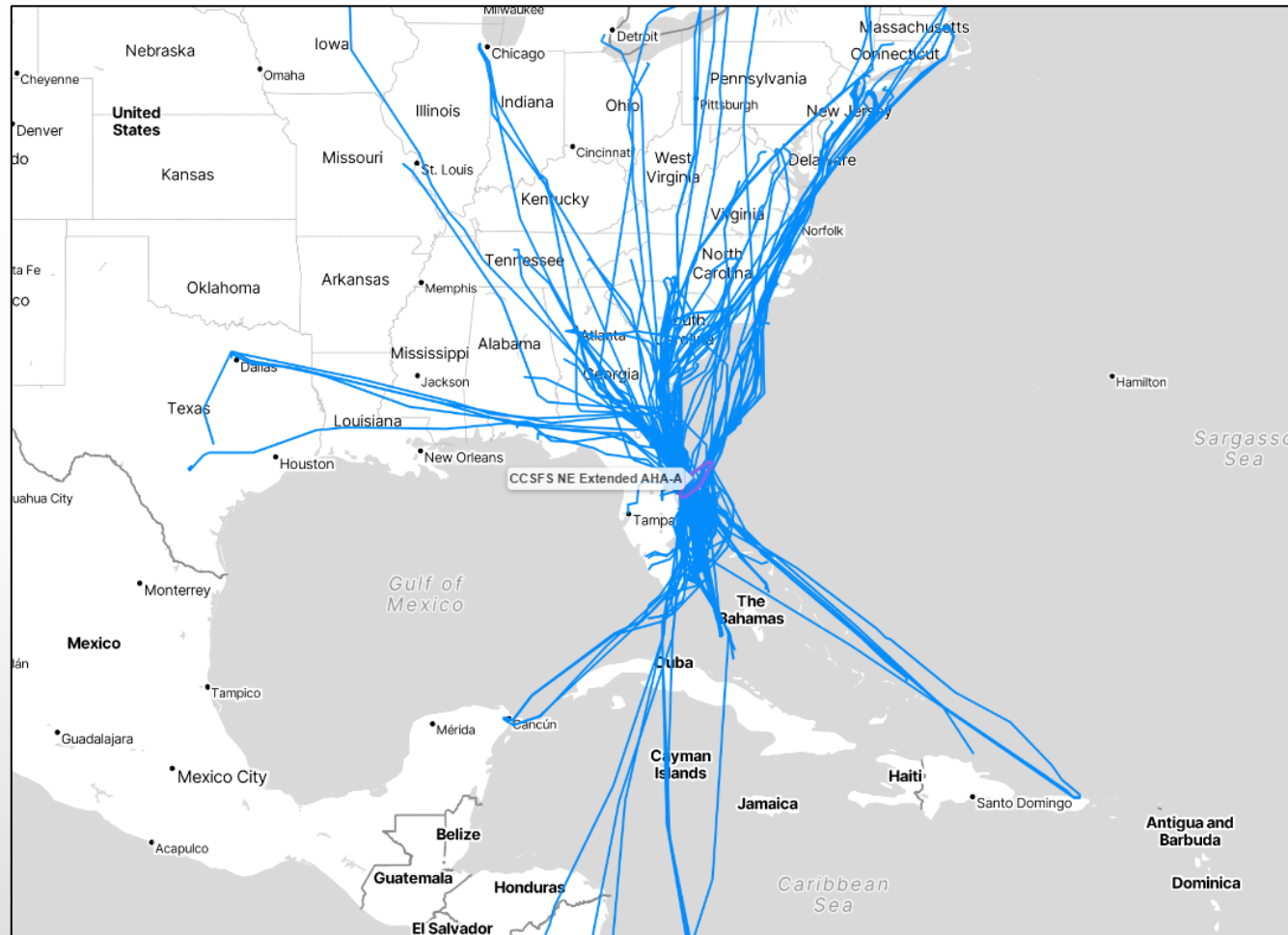
Low-Traffic Hours: 0 (0.0%)

High-Traffic Hours: 0 (0.0%)



# NE Extended AHA-A

## Sample Busy Hour Throughput



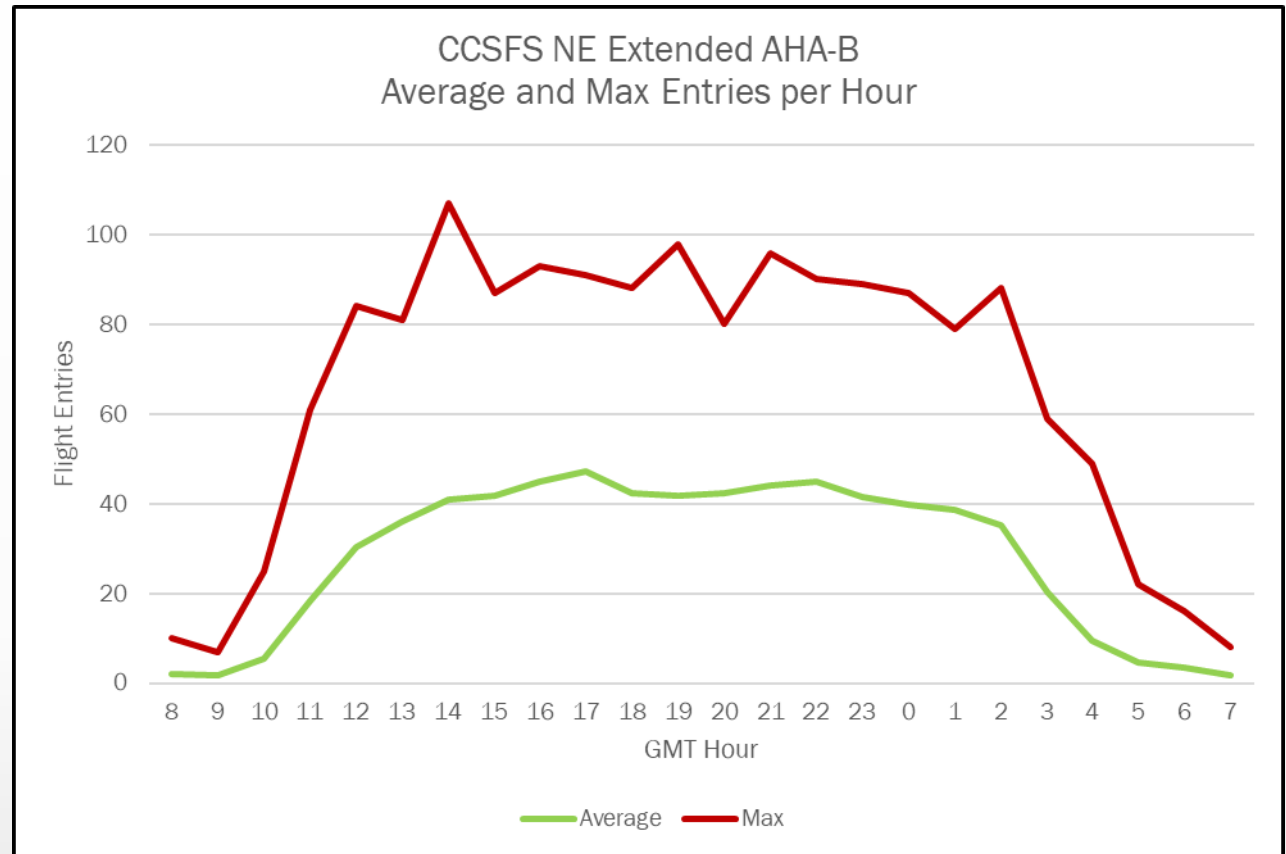
Time Range Shown: 08/22/2025 1600Z - 1700Z



# NE Extended AHA-B

## Weekday Averages

| CCSFS NE Extended AHA-B |          |      |      |     |     |      |      |      |
|-------------------------|----------|------|------|-----|-----|------|------|------|
|                         | Hour (Z) | Sun  | Mon  | Tue | Wed | Thu  | Fri  | Sat  |
| Total Entries           | Average  | 710  | 669  | 628 | 651 | 699  | 713  | 688  |
|                         | Max      | 1200 | 1168 | 949 | 944 | 1092 | 1008 | 1052 |
| Peak Load               | Average  | 10   | 10   | 10  | 10  | 11   | 11   | 10   |
|                         | Max      | 18   | 14   | 17  | 16  | 16   | 15   | 14   |



## Hourly Averages

| CCSFS NE Extended AHA-B |          |    |   |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|-------------------------|----------|----|---|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
|                         | Hour (Z) | 8  | 9 | 10 | 11 | 12 | 13 | 14  | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7 |
| Total Entries           | Average  | 2  | 2 | 5  | 18 | 30 | 36 | 41  | 42 | 45 | 47 | 42 | 42 | 42 | 44 | 45 | 42 | 40 | 39 | 35 | 20 | 10 | 5  | 3  | 2 |
|                         | Max      | 10 | 7 | 25 | 61 | 84 | 81 | 107 | 87 | 93 | 91 | 88 | 98 | 80 | 96 | 90 | 89 | 87 | 79 | 88 | 59 | 49 | 22 | 16 | 8 |
| Peak Load               | Average  | 1  | 1 | 2  | 5  | 6  | 7  | 7   | 7  | 8  | 8  | 7  | 7  | 7  | 7  | 8  | 7  | 7  | 7  | 6  | 5  | 3  | 2  | 1  | 1 |
|                         | Max      | 4  | 3 | 8  | 14 | 13 | 13 | 14  | 17 | 15 | 15 | 18 | 16 | 14 | 14 | 16 | 14 | 14 | 13 | 14 | 11 | 8  | 6  | 5  | 4 |



# NE Extended AHA-B

## Weekday Hourly Averages

CCSFS NE Extended AHA-B

| Hour (Z)  |         | 8  | 9 | 10 | 11 | 12 | 13 | 14  | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7 |
|-----------|---------|----|---|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| Sunday    | Average | 2  | 2 | 8  | 20 | 32 | 36 | 41  | 43 | 47 | 49 | 45 | 45 | 45 | 46 | 48 | 45 | 40 | 38 | 33 | 19 | 11 | 5  | 3  | 2 |
|           | Max     | 7  | 5 | 22 | 61 | 84 | 81 | 107 | 84 | 93 | 91 | 88 | 86 | 80 | 77 | 90 | 89 | 67 | 68 | 60 | 48 | 40 | 17 | 12 | 7 |
| Monday    | Average | 2  | 2 | 5  | 16 | 29 | 35 | 40  | 40 | 42 | 44 | 41 | 40 | 41 | 46 | 46 | 42 | 42 | 40 | 35 | 21 | 10 | 5  | 4  | 2 |
|           | Max     | 10 | 6 | 21 | 54 | 79 | 71 | 77  | 76 | 84 | 89 | 83 | 74 | 72 | 96 | 84 | 68 | 87 | 66 | 88 | 50 | 37 | 18 | 14 | 8 |
| Tuesday   | Average | 2  | 2 | 5  | 18 | 29 | 35 | 39  | 39 | 41 | 44 | 41 | 38 | 39 | 40 | 40 | 37 | 40 | 39 | 37 | 22 | 10 | 5  | 4  | 2 |
|           | Max     | 5  | 7 | 18 | 45 | 66 | 65 | 77  | 87 | 88 | 78 | 74 | 61 | 64 | 70 | 70 | 65 | 83 | 76 | 64 | 59 | 49 | 22 | 16 | 6 |
| Wednesday | Average | 2  | 2 | 5  | 18 | 30 | 37 | 41  | 41 | 43 | 46 | 40 | 40 | 40 | 43 | 43 | 38 | 37 | 35 | 32 | 18 | 8  | 3  | 3  | 2 |
|           | Max     | 8  | 6 | 17 | 51 | 61 | 71 | 71  | 71 | 76 | 80 | 72 | 70 | 65 | 67 | 76 | 65 | 61 | 65 | 66 | 45 | 34 | 9  | 8  | 6 |
| Thursday  | Average | 2  | 2 | 6  | 19 | 31 | 37 | 42  | 42 | 45 | 49 | 43 | 42 | 43 | 45 | 46 | 43 | 37 | 37 | 33 | 17 | 8  | 4  | 3  | 2 |
|           | Max     | 6  | 6 | 25 | 51 | 61 | 66 | 77  | 76 | 75 | 87 | 84 | 98 | 79 | 74 | 85 | 78 | 67 | 63 | 65 | 54 | 25 | 11 | 9  | 8 |
| Friday    | Average | 3  | 2 | 6  | 18 | 30 | 36 | 41  | 44 | 49 | 50 | 44 | 45 | 46 | 46 | 47 | 44 | 42 | 40 | 38 | 23 | 10 | 5  | 4  | 2 |
|           | Max     | 7  | 5 | 19 | 49 | 59 | 63 | 73  | 87 | 85 | 88 | 79 | 71 | 77 | 72 | 80 | 73 | 74 | 65 | 63 | 54 | 25 | 14 | 10 | 7 |
| Saturday  | Average | 2  | 2 | 5  | 20 | 32 | 37 | 42  | 45 | 47 | 49 | 42 | 43 | 42 | 44 | 44 | 42 | 41 | 41 | 37 | 23 | 10 | 5  | 4  | 1 |
|           | Max     | 5  | 6 | 18 | 48 | 68 | 75 | 75  | 73 | 89 | 81 | 71 | 92 | 77 | 70 | 73 | 72 | 73 | 79 | 67 | 48 | 30 | 16 | 10 | 7 |

Top 10 and Bottom 10 values highlighted to identify most optimal/sub-optimal launch times

2025 - Q1 2026 Launches: 5

Launches During:

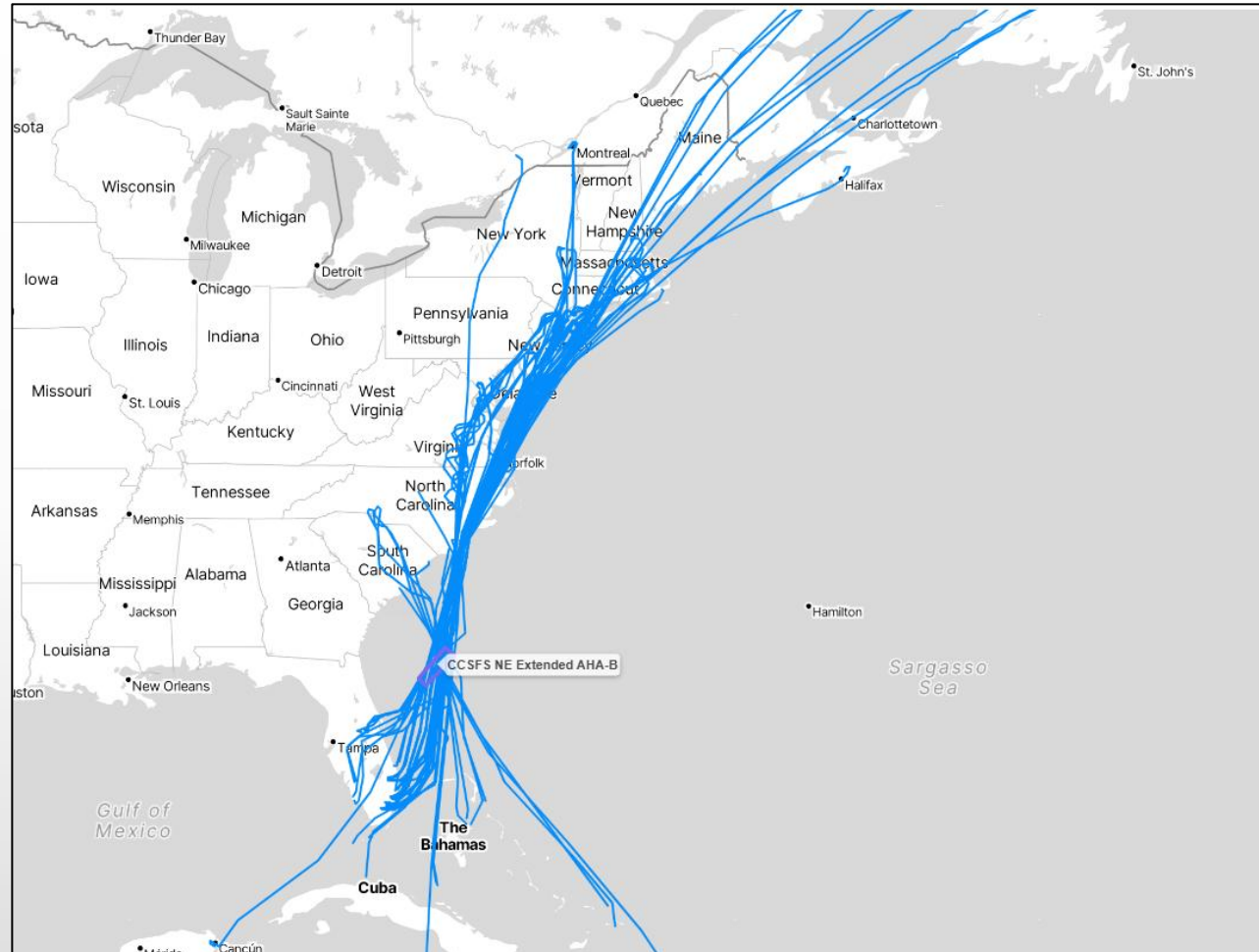
Low-Traffic Hours: 1 (20.0%)

High-Traffic Hours: 0 (0.0%)



# NE Extended AHA-B

## Sample Busy Hour Throughput



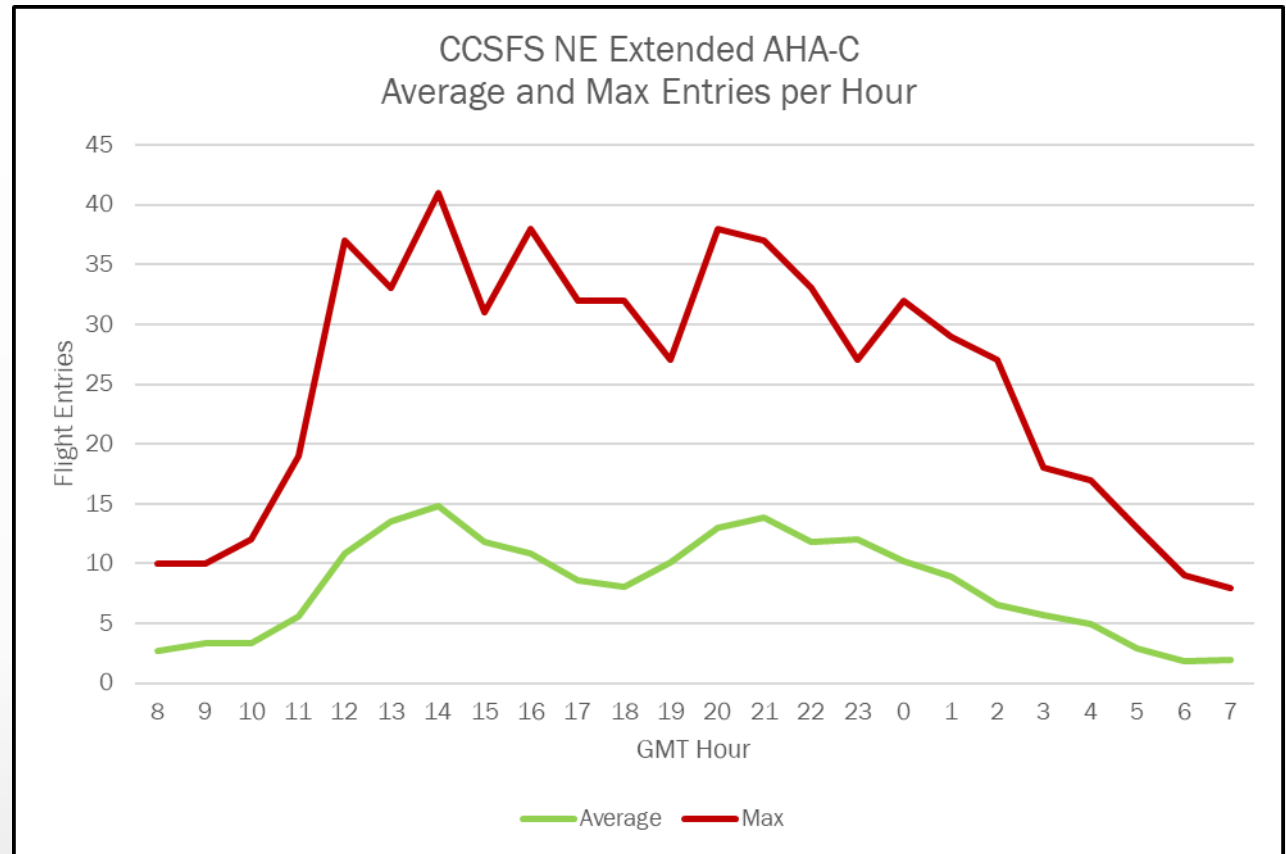
Time Range Shown: 02/23/2025 1800Z - 1900Z



# NE Extended AHA-C

## Weekday Averages

| CCSFS NE Extended AHA-C |         |     |     |     |     |     |     |     |
|-------------------------|---------|-----|-----|-----|-----|-----|-----|-----|
| Hour (Z)                |         | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| Total Entries           | Average | 216 | 191 | 177 | 177 | 186 | 206 | 230 |
|                         | Max     | 376 | 377 | 298 | 304 | 319 | 399 | 369 |
| Peak Load               | Average | 6   | 6   | 6   | 6   | 7   | 7   | 7   |
|                         | Max     | 14  | 10  | 10  | 14  | 13  | 16  | 12  |



## Hourly Averages

| CCSFS NE Extended AHA-C |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |
|-------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|
| Hour (Z)                |         | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6 | 7 |
| Total Entries           | Average | 3  | 3  | 3  | 6  | 11 | 14 | 15 | 12 | 11 | 9  | 8  | 10 | 13 | 14 | 12 | 12 | 10 | 9  | 7  | 6  | 5  | 3  | 2 | 2 |
|                         | Max     | 10 | 10 | 12 | 19 | 37 | 33 | 41 | 31 | 38 | 32 | 32 | 27 | 38 | 37 | 33 | 27 | 32 | 29 | 27 | 18 | 17 | 13 | 9 | 8 |
| Peak Load               | Average | 1  | 2  | 2  | 2  | 4  | 4  | 4  | 4  | 4  | 3  | 3  | 4  | 4  | 4  | 4  | 4  | 4  | 3  | 3  | 2  | 2  | 2  | 1 | 1 |
|                         | Max     | 4  | 5  | 6  | 7  | 12 | 9  | 11 | 10 | 14 | 16 | 15 | 11 | 12 | 15 | 12 | 11 | 11 | 13 | 11 | 6  | 6  | 4  | 4 | 4 |



# NE Extended AHA-C

## Weekday Hourly Averages

### CCSFS NE Extended AHA-C

| Hour (Z)  |         | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6 | 7 |
|-----------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|
| Sunday    | Average | 3  | 4  | 8  | 6  | 12 | 14 | 15 | 13 | 12 | 10 | 9  | 12 | 14 | 15 | 13 | 13 | 13 | 11 | 8  | 6  | 6  | 3  | 2 | 2 |
|           | Max     | 7  | 9  | 9  | 14 | 37 | 31 | 41 | 30 | 38 | 21 | 23 | 22 | 28 | 29 | 28 | 25 | 27 | 24 | 20 | 16 | 11 | 9  | 8 | 6 |
| Monday    | Average | 3  | 4  | 4  | 5  | 11 | 13 | 14 | 12 | 11 | 9  | 8  | 10 | 13 | 13 | 10 | 11 | 11 | 9  | 8  | 6  | 5  | 4  | 2 | 3 |
|           | Max     | 10 | 10 | 12 | 13 | 23 | 27 | 30 | 25 | 21 | 19 | 16 | 27 | 29 | 27 | 24 | 23 | 32 | 19 | 27 | 15 | 15 | 13 | 8 | 7 |
| Tuesday   | Average | 2  | 3  | 3  | 5  | 9  | 13 | 14 | 11 | 11 | 8  | 6  | 9  | 12 | 13 | 11 | 11 | 9  | 8  | 6  | 5  | 4  | 3  | 2 | 2 |
|           | Max     | 7  | 8  | 9  | 16 | 18 | 30 | 31 | 24 | 25 | 19 | 13 | 18 | 26 | 24 | 24 | 21 | 26 | 22 | 18 | 18 | 11 | 9  | 5 | 8 |
| Wednesday | Average | 3  | 3  | 3  | 5  | 9  | 12 | 14 | 10 | 10 | 7  | 7  | 9  | 12 | 13 | 11 | 10 | 9  | 7  | 6  | 5  | 4  | 2  | 1 | 2 |
|           | Max     | 6  | 9  | 8  | 15 | 24 | 27 | 27 | 25 | 23 | 24 | 18 | 26 | 28 | 30 | 26 | 20 | 23 | 23 | 12 | 10 | 12 | 10 | 9 | 6 |
| Thursday  | Average | 2  | 3  | 3  | 5  | 9  | 12 | 14 | 11 | 10 | 8  | 8  | 8  | 12 | 13 | 11 | 12 | 10 | 8  | 6  | 5  | 4  | 2  | 1 | 2 |
|           | Max     | 5  | 8  | 10 | 11 | 22 | 24 | 26 | 22 | 29 | 31 | 32 | 17 | 22 | 25 | 33 | 27 | 25 | 23 | 15 | 11 | 12 | 7  | 5 | 6 |
| Friday    | Average | 3  | 3  | 3  | 6  | 12 | 14 | 16 | 13 | 11 | 10 | 8  | 10 | 13 | 14 | 12 | 13 | 9  | 10 | 7  | 6  | 5  | 3  | 2 | 2 |
|           | Max     | 9  | 9  | 8  | 19 | 24 | 32 | 31 | 31 | 26 | 32 | 29 | 22 | 38 | 37 | 26 | 27 | 21 | 29 | 18 | 14 | 12 | 10 | 6 | 7 |
| Saturday  | Average | 3  | 4  | 4  | 7  | 14 | 16 | 17 | 12 | 11 | 9  | 10 | 12 | 16 | 16 | 14 | 14 | 10 | 9  | 7  | 6  | 5  | 3  | 2 | 1 |
|           | Max     | 9  | 8  | 10 | 16 | 28 | 33 | 34 | 28 | 22 | 24 | 20 | 23 | 31 | 37 | 31 | 25 | 21 | 20 | 16 | 11 | 17 | 8  | 8 | 6 |

*Top 10 and Bottom 10 values highlighted to identify most optimal/sub-optimal launch times*

2025 - Q1 2026 Launches: 5

Launches During:

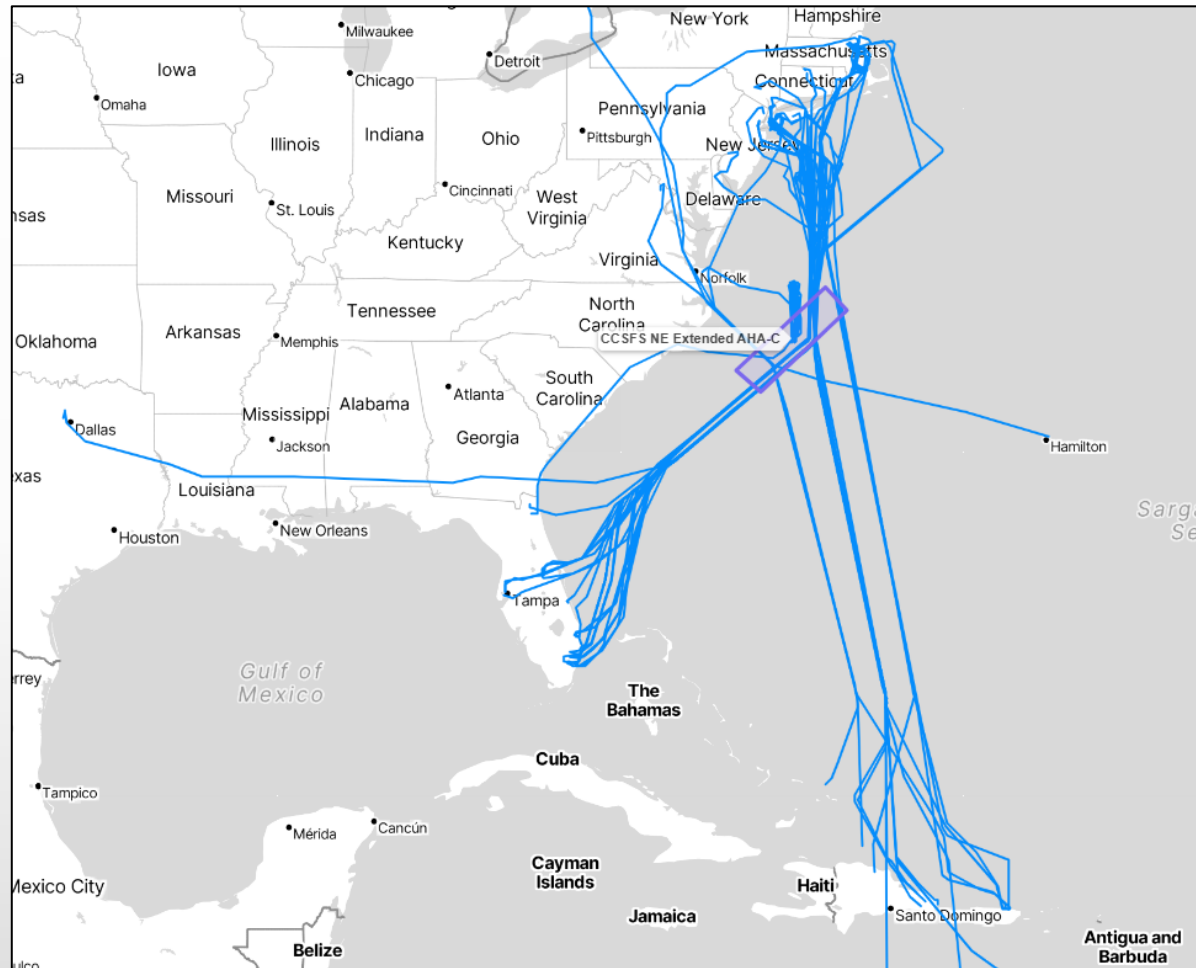
Low-Traffic Hours: 1 (20.0%)

High-Traffic Hours: 0 (0.0%)



# NE Extended AHA-C

Sample Busy Hour Throughput



Time Range Shown: 05/16/2025 1700Z - 1800Z



# NE Extended AHA-D

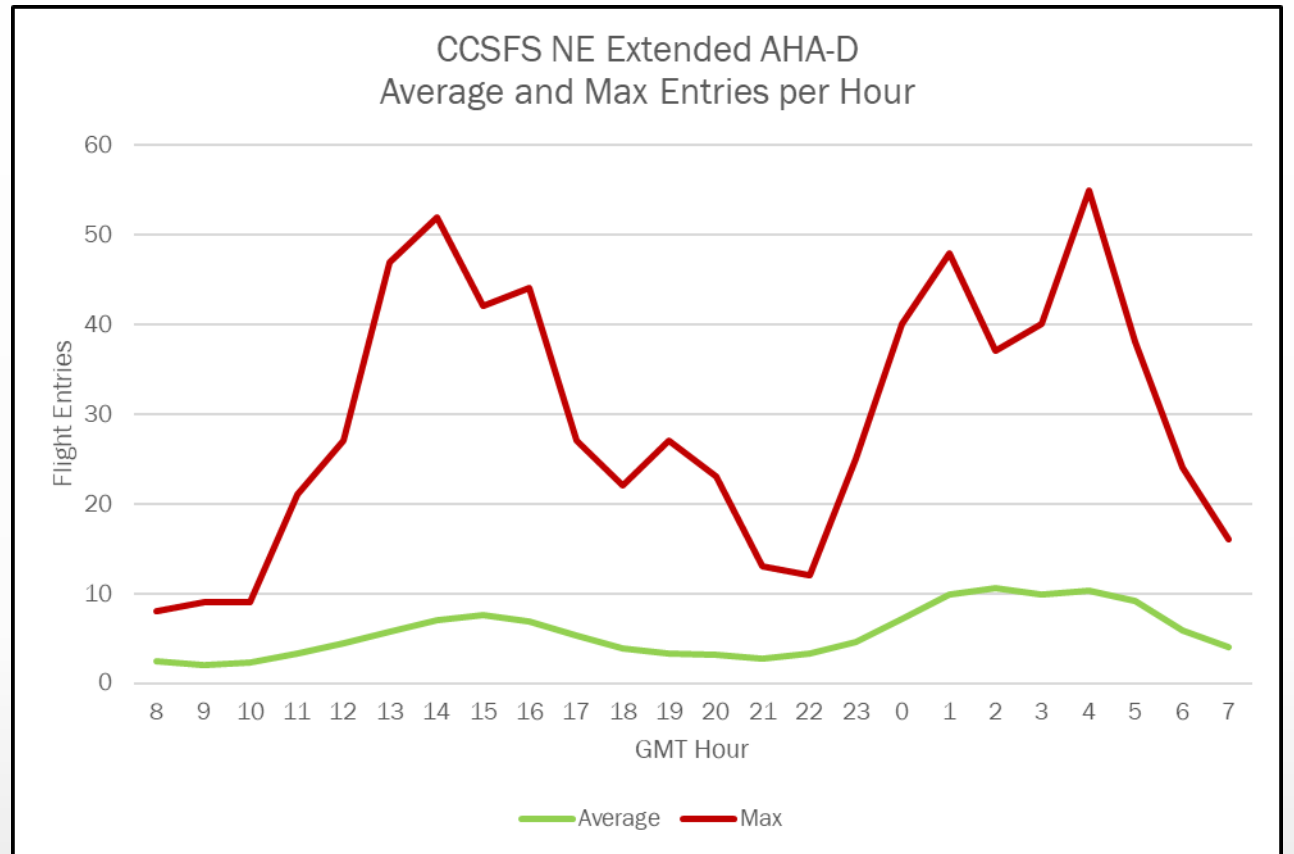
## Weekday Averages

| CCSFS NE Extended AHA-D |         |     |     |     |     |     |     |     |
|-------------------------|---------|-----|-----|-----|-----|-----|-----|-----|
| Hour (Z)                |         | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| Total Entries           | Average | 132 | 129 | 142 | 141 | 133 | 132 | 138 |
|                         | Max     | 321 | 361 | 359 | 309 | 332 | 278 | 386 |
| Peak Load               | Average | 8   | 8   | 8   | 9   | 8   | 8   | 8   |
|                         | Max     | 18  | 22  | 22  | 19  | 19  | 17  | 18  |

## Hourly Averages

### CCSFS NE Extended AHA-D

| Hour (Z)      |         | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  |
|---------------|---------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Total Entries | Average | 2 | 2 | 2  | 3  | 5  | 6  | 7  | 8  | 7  | 5  | 4  | 3  | 3  | 3  | 3  | 5  | 7  | 10 | 11 | 10 | 10 | 9  | 6  | 4  |
|               | Max     | 8 | 9 | 9  | 21 | 27 | 47 | 52 | 42 | 44 | 27 | 22 | 27 | 23 | 13 | 12 | 25 | 40 | 48 | 37 | 40 | 55 | 38 | 24 | 16 |
| Peak Load     | Average | 2 | 2 | 2  | 2  | 3  | 3  | 4  | 4  | 4  | 3  | 3  | 2  | 2  | 2  | 2  | 3  | 4  | 5  | 6  | 5  | 5  | 5  | 4  | 3  |
|               | Max     | 5 | 7 | 5  | 11 | 15 | 20 | 22 | 22 | 22 | 17 | 16 | 17 | 13 | 9  | 8  | 10 | 12 | 16 | 16 | 15 | 16 | 15 | 11 | 9  |



# NE Extended AHA-D

## Weekday Hourly Averages

### CCSFS NE Extended AHA-D

| Hour (Z)  |         | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  |
|-----------|---------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Sunday    | Average | 3 | 2 | 8  | 3  | 4  | 5  | 7  | 8  | 7  | 6  | 4  | 4  | 4  | 3  | 4  | 5  | 7  | 11 | 11 | 10 | 10 | 9  | 6  | 4  |
|           | Max     | 8 | 8 | 8  | 11 | 20 | 29 | 36 | 37 | 37 | 25 | 16 | 19 | 17 | 12 | 10 | 19 | 37 | 34 | 34 | 34 | 34 | 25 | 13 | 11 |
| Monday    | Average | 2 | 2 | 3  | 3  | 4  | 5  | 6  | 7  | 7  | 5  | 4  | 4  | 3  | 3  | 3  | 4  | 6  | 9  | 9  | 8  | 9  | 6  | 4  |    |
|           | Max     | 8 | 9 | 9  | 21 | 27 | 32 | 52 | 41 | 37 | 27 | 22 | 27 | 23 | 12 | 9  | 16 | 22 | 24 | 25 | 25 | 26 | 20 | 17 | 11 |
| Tuesday   | Average | 2 | 2 | 2  | 4  | 5  | 6  | 8  | 8  | 8  | 5  | 3  | 3  | 3  | 2  | 3  | 5  | 7  | 9  | 10 | 9  | 10 | 9  | 4  |    |
|           | Max     | 7 | 6 | 7  | 18 | 19 | 47 | 40 | 37 | 44 | 22 | 20 | 19 | 15 | 8  | 8  | 25 | 18 | 32 | 25 | 23 | 34 | 20 | 16 | 13 |
| Wednesday | Average | 2 | 2 | 3  | 4  | 5  | 6  | 7  | 7  | 7  | 5  | 4  | 3  | 3  | 2  | 3  | 5  | 9  | 11 | 11 | 11 | 12 | 9  | 6  | 4  |
|           | Max     | 8 | 7 | 8  | 15 | 27 | 26 | 32 | 29 | 32 | 19 | 18 | 19 | 16 | 9  | 12 | 21 | 36 | 45 | 37 | 40 | 55 | 23 | 22 | 16 |
| Thursday  | Average | 3 | 2 | 3  | 4  | 5  | 5  | 7  | 7  | 6  | 5  | 4  | 3  | 3  | 3  | 3  | 4  | 7  | 11 | 12 | 11 | 11 | 11 | 7  | 5  |
|           | Max     | 8 | 9 | 9  | 19 | 26 | 31 | 33 | 30 | 27 | 20 | 12 | 12 | 11 | 9  | 10 | 23 | 29 | 42 | 30 | 29 | 31 | 38 | 24 | 16 |
| Friday    | Average | 2 | 2 | 2  | 3  | 5  | 6  | 7  | 8  | 7  | 6  | 4  | 3  | 3  | 3  | 3  | 4  | 7  | 10 | 11 | 10 | 11 | 8  | 4  |    |
|           | Max     | 8 | 8 | 9  | 13 | 16 | 23 | 30 | 29 | 29 | 20 | 16 | 20 | 11 | 8  | 11 | 18 | 40 | 48 | 33 | 36 | 40 | 31 | 16 | 12 |
| Saturday  | Average | 2 | 2 | 2  | 3  | 4  | 6  | 8  | 8  | 7  | 5  | 4  | 4  | 3  | 3  | 4  | 5  | 7  | 9  | 11 | 9  | 10 | 9  | 6  | 1  |
|           | Max     | 6 | 5 | 6  | 13 | 19 | 31 | 32 | 42 | 32 | 22 | 18 | 15 | 14 | 13 | 11 | 16 | 29 | 38 | 34 | 31 | 33 | 26 | 18 | 11 |

*Top 10 and Bottom 10 values highlighted to identify most optimal/sub-optimal launch times*

2025 - Q1 2026 Launches: 5

Launches During:

Low-Traffic Hours: 0 (0.0%)

High-Traffic Hours: 0 (0.0%)





# SpORT Update



# SpORT Update

- High-level requirements are complete, and low-level requirements are continuously being refined throughout development.
- Plan for API integration to streamline processes.
- In discussions with LEAP (AST Portal) for possible collaboration.
- Development has started “Sprints”.
  - User Interface mockups have been shared, with modifications being made throughout additional sprints.



# SpORT Update – Feedback Plan

- SpORT mock-up/demo at ESC meeting September 9.
- Begin user testing with the ESC operators Fall of 2026.
- By January 2027, ATO Space Operations to begin working with operators on requirements for API connectivity.
- Additional testing with ESC operators Spring 2027.
- Next step: API connectivity with ESC operators.



# Brand New Air Traffic Control System (BNATCS)



# By the Numbers- Phase 1

- **5,170** new high speed network connections on fiber, satellite, and wireless
- **27,625** new radios
- **462** new digital voice switches
- **612** state of the art radars
- **44** airports will have new replacement surface radars
- **200** airports will have Surface Awareness Initiative surveillance technology
- **89** airports will have new Terminal Flight Data Manager tools
- **435** air traffic control towers will have new Enterprise Information Display Systems
- **113** air traffic control towers will have new Tower Simulation Systems
- **110** additional weather stations in Alaska
- **64** more weather camera sites in Alaska



# Peraton

- **An initial Integrated Master Schedule (IMS) has been submitted and is under review**



# Other News

- **Four programs added to BNATCS umbrella**
  - NAS Trusted Enhanced SWIM Cloud Services (ESCS)
  - SMART (Strategic Management of Airspace, Routes & Trajectories)
  - Common Automation Platform (CAP)
  - Major Airspace Redesign
  
- **Website for the Public**
  - <https://modernskies.faa.gov/>

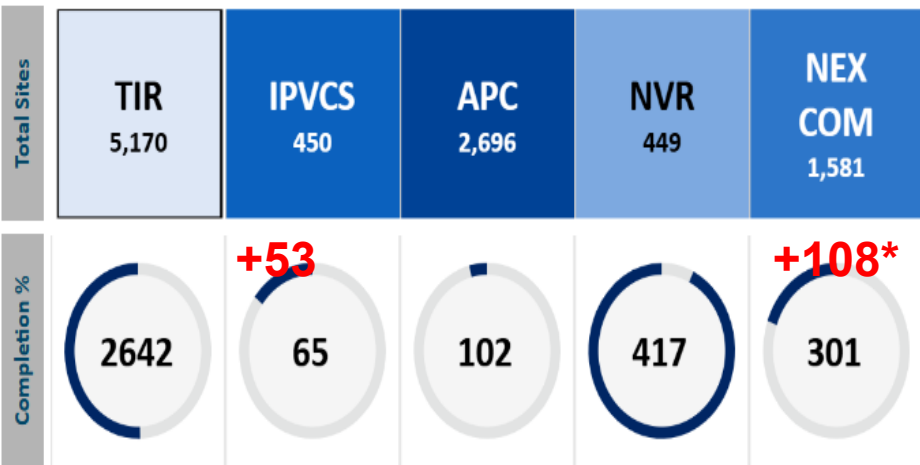


# BNATCS Implementation Team Members

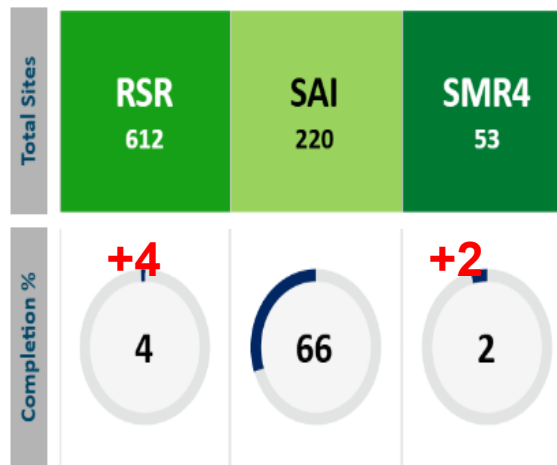
| Service Unit | POC(s)                            | Implementation Team Role  |
|--------------|-----------------------------------|---|
| AJI          | Timothy Evans                     | <p>The BNATCS Implementation Team is comprised of subject matter experts whose primary role is to support ATC modernization programs, ensuring service unit priorities and policies are considered. The Implementation Team is expected to:</p> <ul style="list-style-type: none"> <li>• Serve as a liaison between the Integrator, program implementation teams, and service unit leadership</li> <li>• Ensure program activities align with ATO strategy</li> <li>• Ensure continuity of operations during implementation</li> <li>• Assist Integrator with risk management</li> <li>• Assist with coordination across multiple teams and stakeholders</li> <li>• Monitor and report progress, ensure compliance with policies and standards</li> <li>• Track dependencies and remove barriers</li> </ul> |
| AJV/G        | Stephanie Crocker                 |   |
| AJM          | Allan Schock                      |   |
| AJW          | Thomas Waldron – Team Lead        |   |
| AJR          | Felicia McIntyre<br>Richard Ditto |   |
| AJT          | Miles Magnuson<br>Mike Schmidt    |   |
| AJF          | Sean Dudgeon                      |   |
| NATCA        | Daniel Hamilton                   |   |
| Airports     | Kimberly Noonan                   |   |
| RA           | Shawn Kozica                      |   |
| AOC          | Lindsay Aaronson                  |   |



## Communications

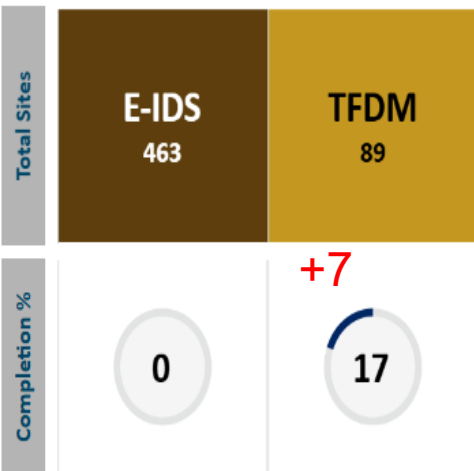


## Surveillance

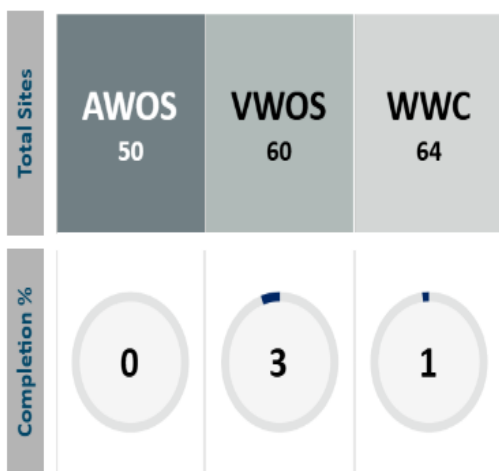


|                |   |
|----------------|---|
| TIR            | Telecommunication Infrastructure Replacement  |
| SBSS           | Surveillance Broadcast Services   |
| IPVCS          | Internet Protocol Voice Communication System-Voice Switch   |
| APC            | Air to Ground Protocol Converter  |
| NVR            | NAS Voice Recorder  |
| ACLSS          | Airport Cable Loop System Sustain   |
| NEXCOM         | Next Generation Air/Ground Communications Radios<br>*Counts have changed from # radios to # sites |
| RID            | Runway Incursion Device   |
| RSR            | Radar System Replacement  |
| SAI            | Surface Awareness Initiative  |
| SMR            | Surface Movement Radar  |
| E-IDS          | Enterprise Information Display System   |
| FMDS           | Flow Management Data and Services   |
| TFDM           | Terminal Flight Data Manager  |
| AWOS           | Automated Weather Observing System  |
| VWOS           | Visual Weather Observation System   |
| WEATHER CAMERA | Weather Camera  |
| TSS            | Tower Simulation System   |
| ECC            | Enterprise Common Console   |

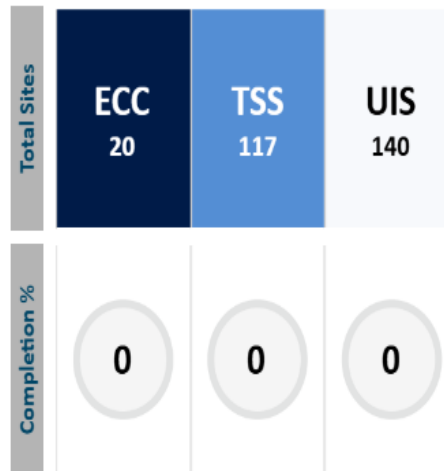
## Automation



## Alaska/Airspace



## Facilities/Other





# FIFA Men's World Cup 2026



# 2026 Men's World Cup



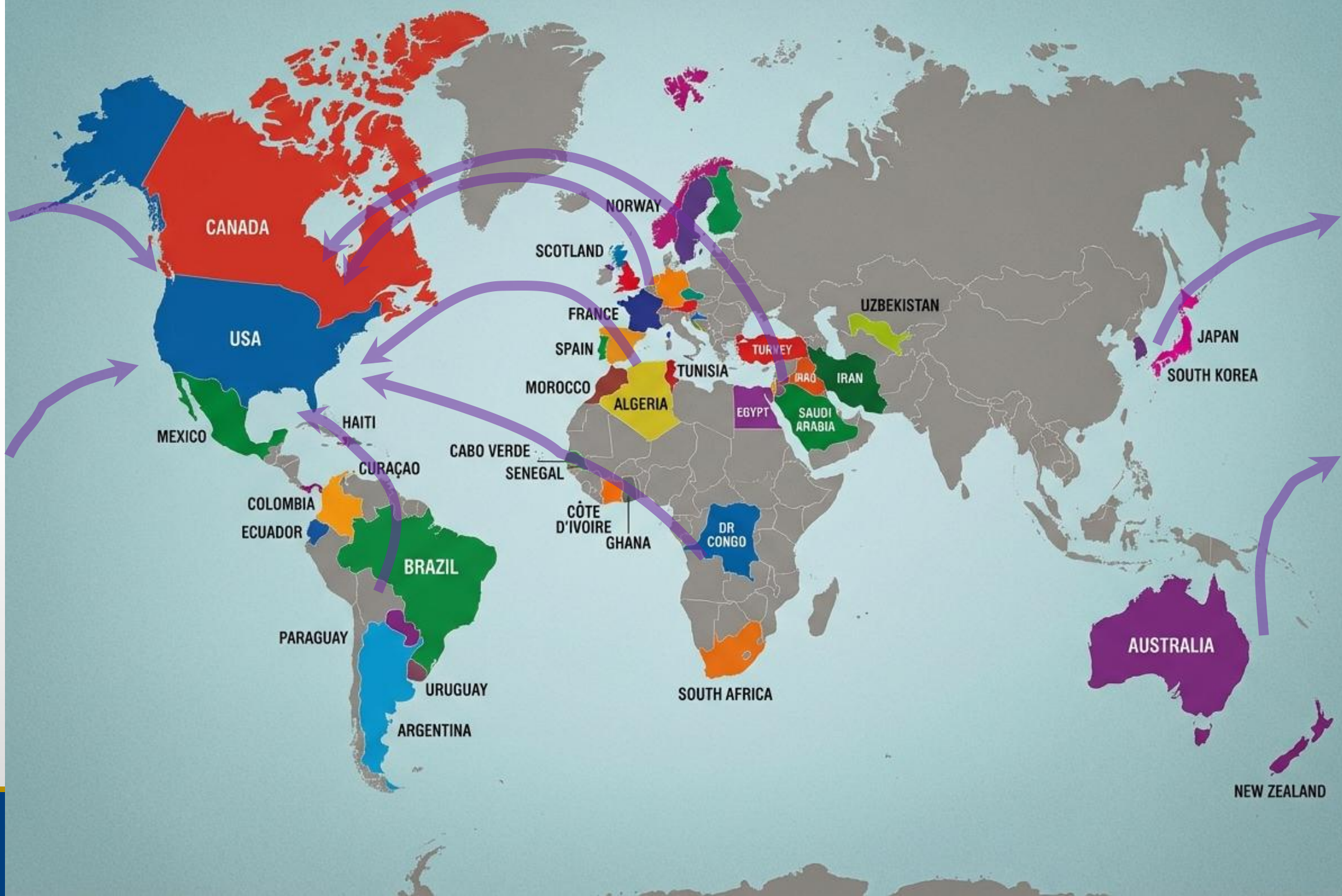
- June 11 – July 19, 2026
- 48 Teams
- 16 Stadiums
- 3 Countries

# FIFA World Cup 2026 Countries

- The 2026 World Cup will take place in three North American countries: Canada, Mexico and the United States.
- This will be the first time that the tournament is hosted by three different nations. Total of 16 venues used as host cities for the 2026 World Cup. Canada - 2, Mexico – 3, US - 11.
- 2026 World Cup will debut an expanded format featuring 48 teams, as opposed to the previous 32, split into 12 groups of 4.



# Countries and major flows



# FIFA World Cup 2026



## HOST CITIES



# FIFA World Cup 2026 Host Cities

## Canada

- ✓ Toronto – BMO Field
- ✓ Vancouver – BC Place

## Mexico

- ✓ Guadalajara – Estadio Akron
- ✓ Mexico City – Estadio Azteca
- ✓ Monterrey – Estadio BBVA

## USA

- ✓ Atlanta – Mercedes-Benz Stadium
- ✓ Boston – Gillette Stadium
- ✓ Dallas – AT&T Stadium
- ✓ Houston – NRG Stadium
- ✓ Kansas City – Arrowhead Stadium
- ✓ Los Angeles – SoFi Stadium
- ✓ Miami – Hard Rock Stadium
- ✓ New York/New Jersey – MetLife Stadium
- ✓ Philadelphia – Lincoln Financial Field
- ✓ San Francisco – Levi's Stadium
- ✓ Seattle – Lumen Field

# Game locations and Team Base Camps

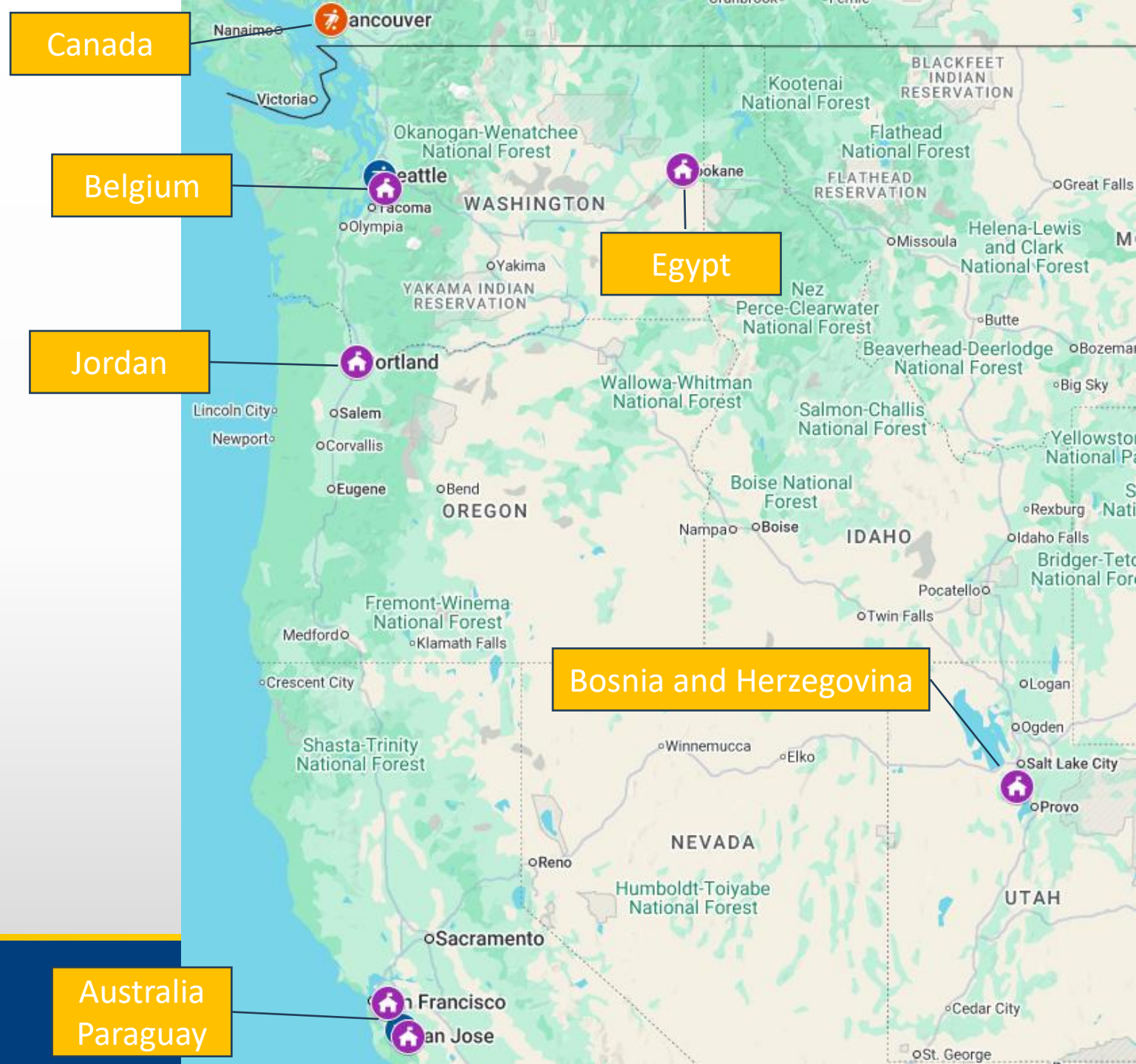
Team Base Camp (TBC) training sites are the "home away from home" for the participating teams. They will spend a large majority of their time during the pool play at their base camp. FIFA will transport teams from TBC to game locations via charter flights. Maps are by regions within North America

## Mexico



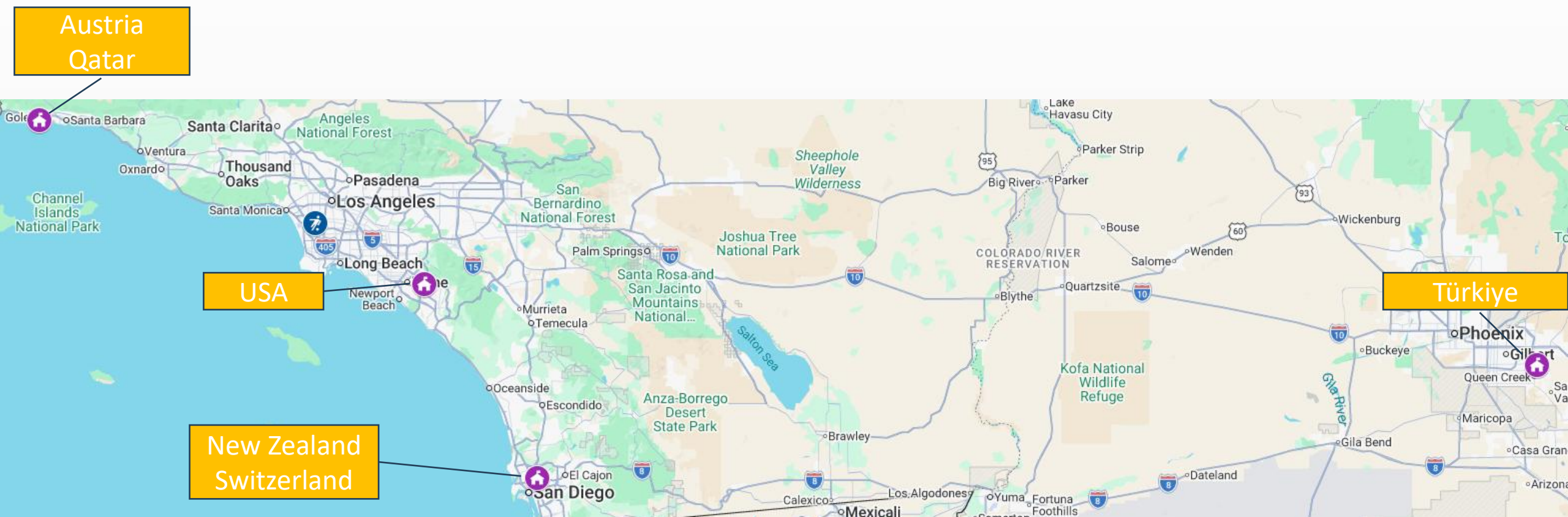
# Game locations and Team Base Camps

## Northwest US and Western Canada



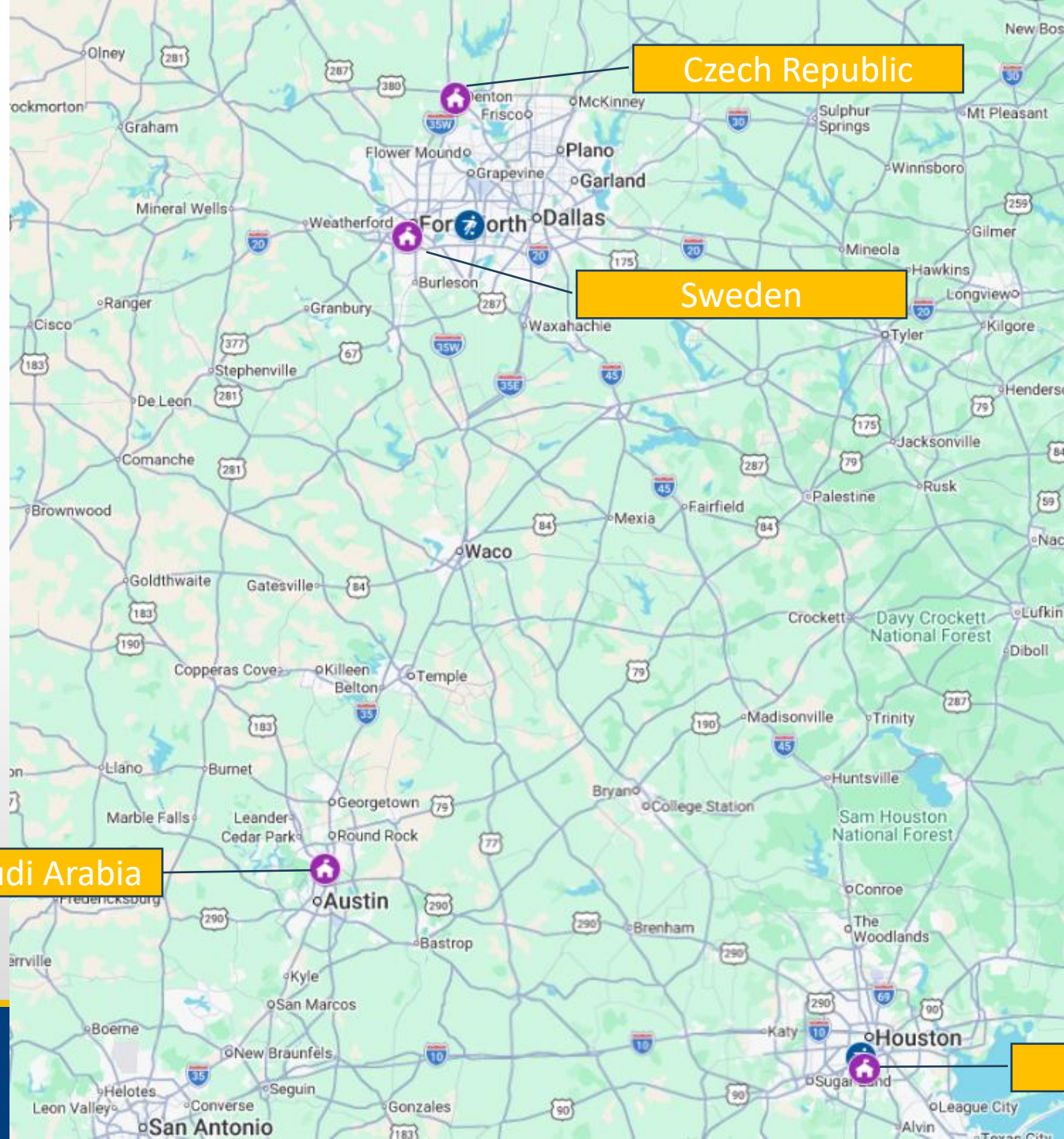
# Game locations and Team Base Camps

## Southwest USA



# Game locations and Team Base Camps

Texas



Czech Republic

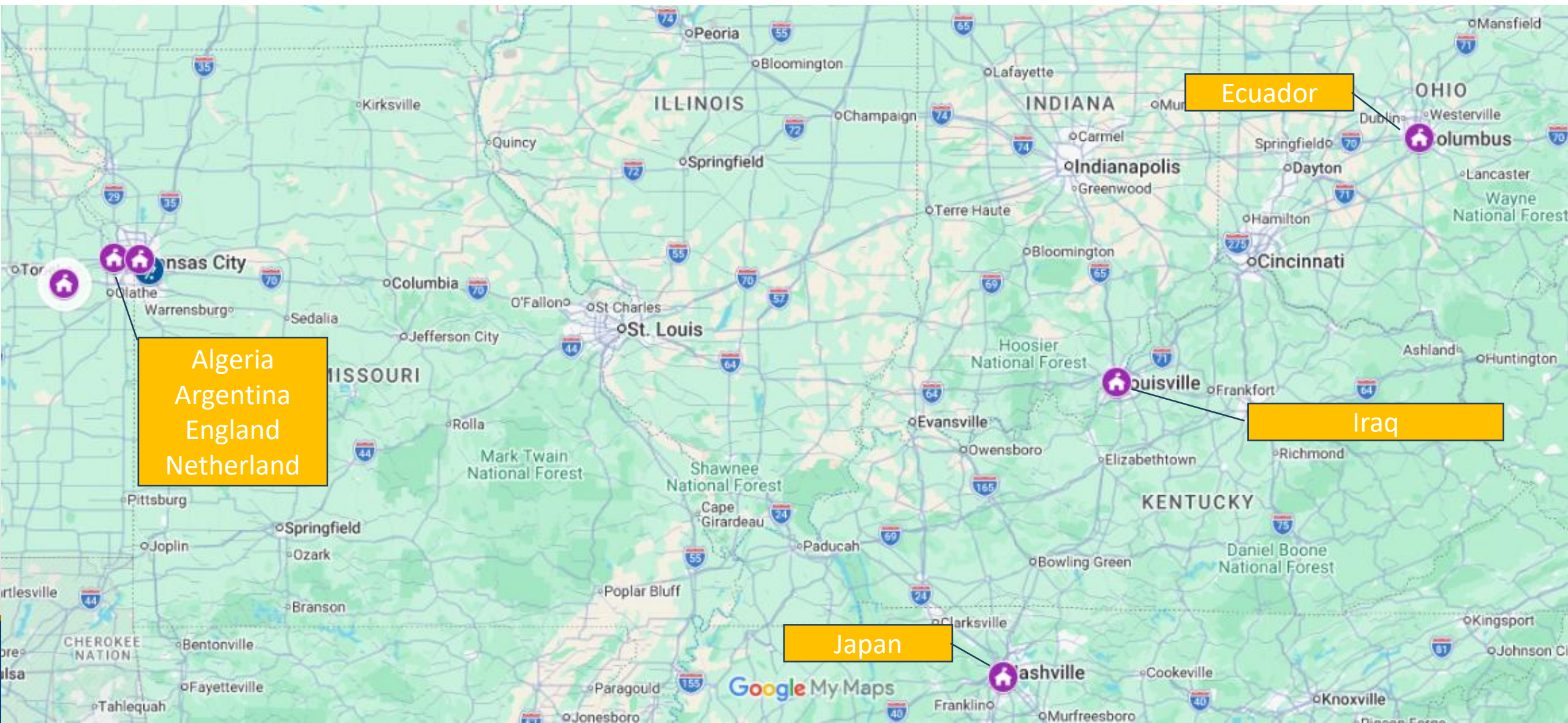
Sweden

Saudi Arabia

DR Congo

# Game locations and Team Base Camps

## Midwest

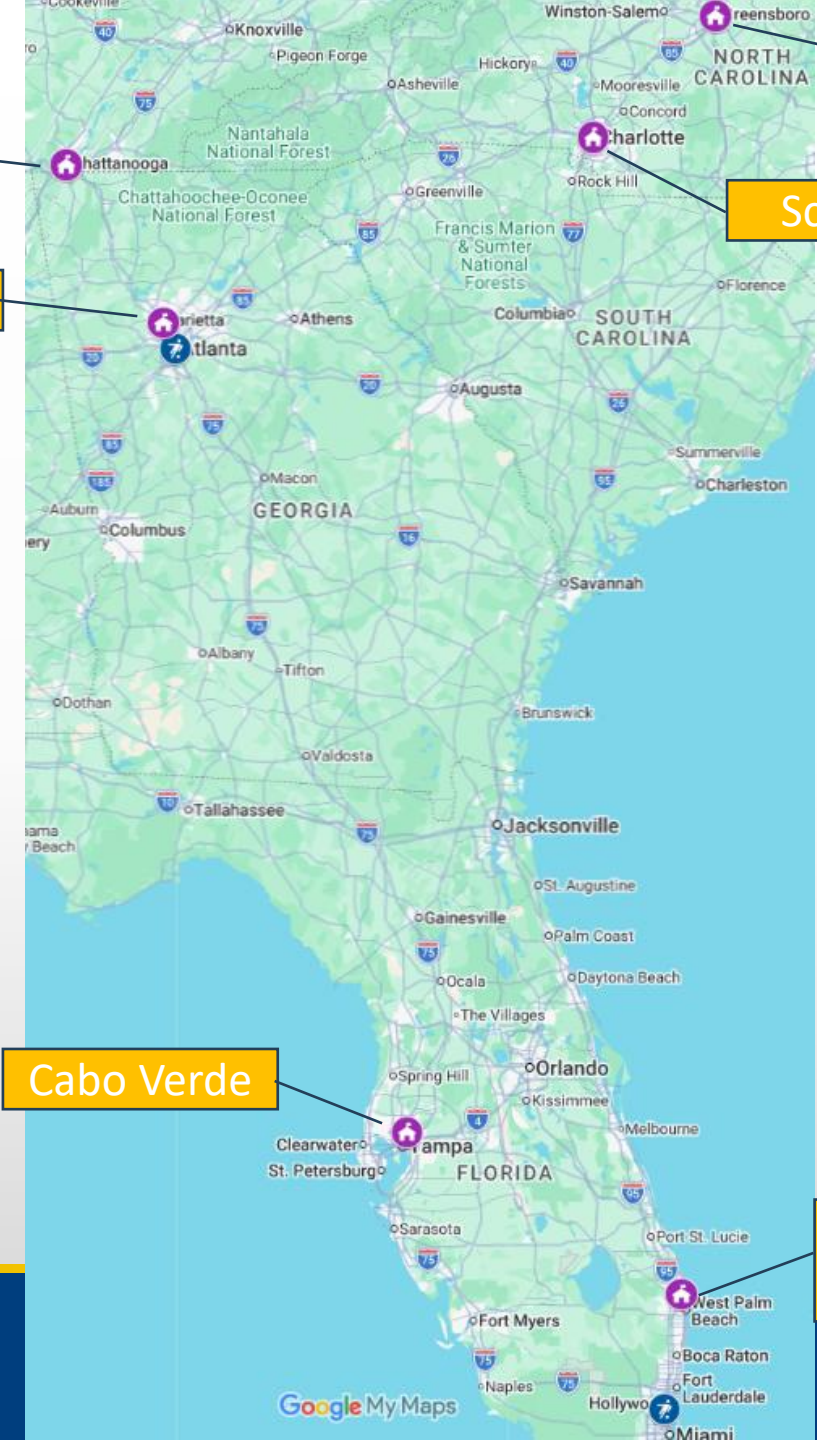


# Game locations and Team Base Camps

Southeast

Spain

Uzbekistan



Germany  
Norway

Scotland

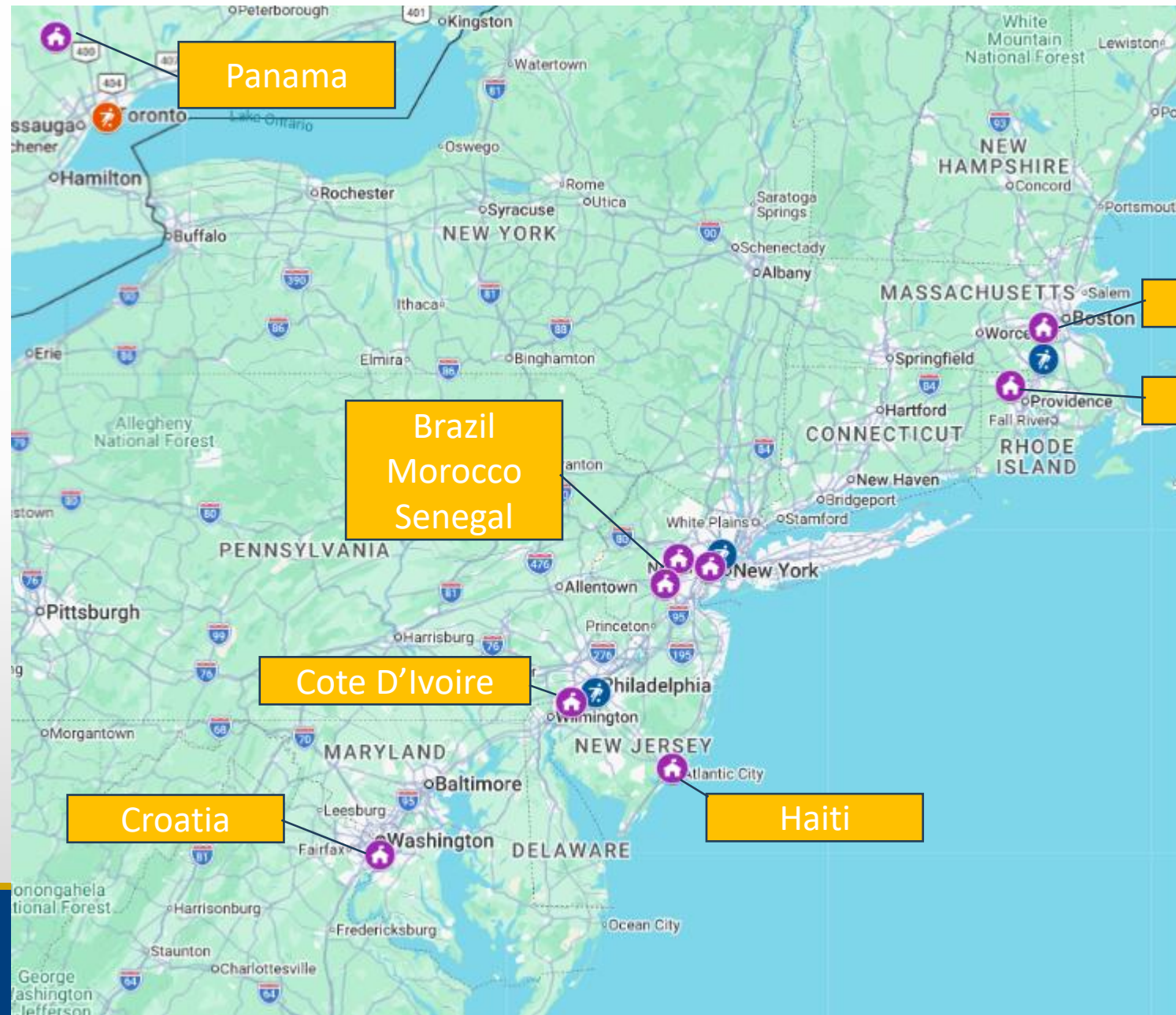
Cabo Verde

Portugal  
Curacao

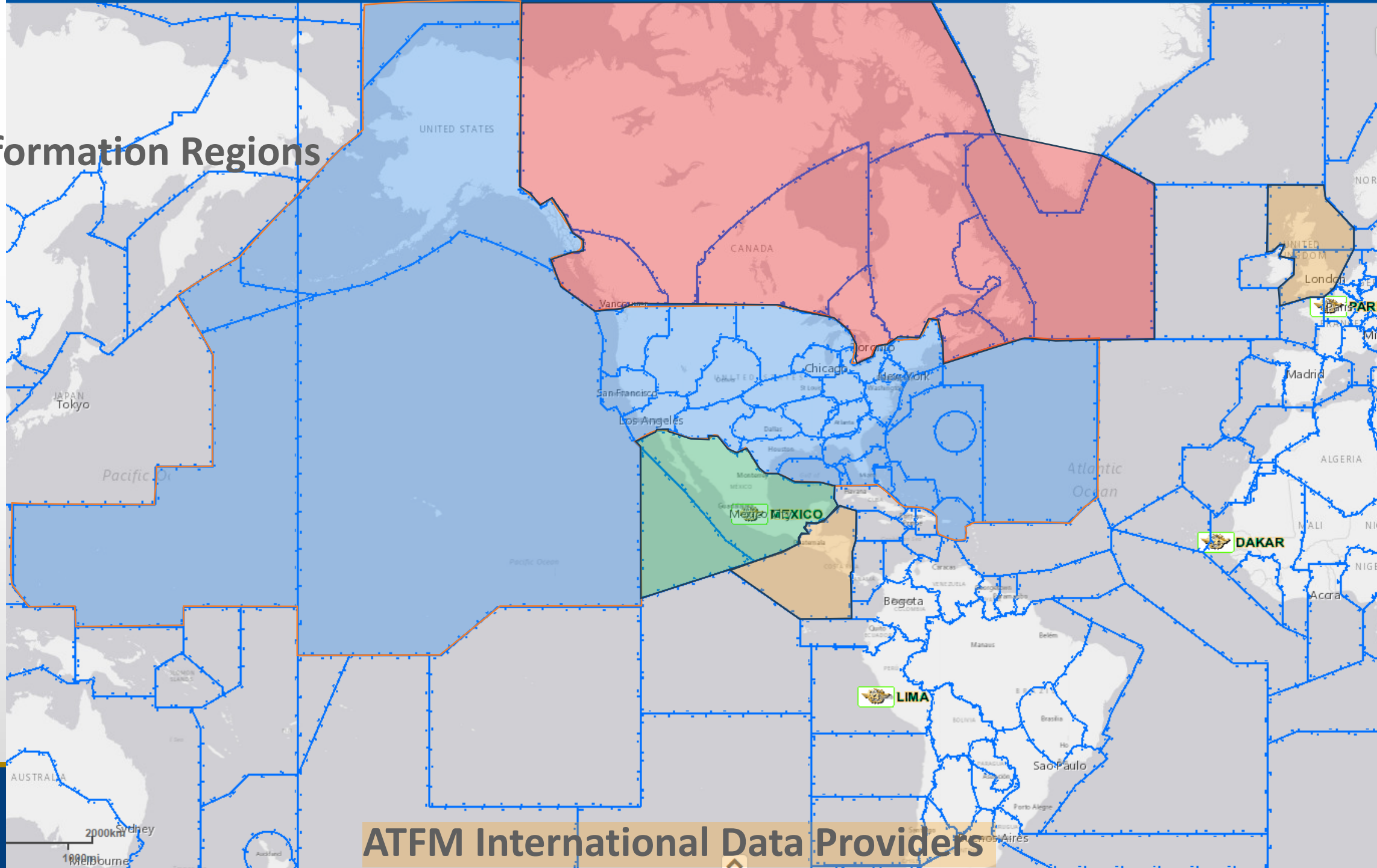


Federal Aviation  
Administration

## Northeast US and Eastern Canada



# Flight Information Regions



ATFM International Data Providers

# FIFA World Cup 2026 Key Players

| City          | Stadium                 | Airport Authorities                       | Air Traffic Service Providers                            |
|---------------|-------------------------|---|--|
| Toronto       | BMO Field               | GTAA                                      | Toronto ACC, CYYZ, NTMU, Transport Canada                |
| Vancouver     | BC Place                | VAA                                       | Vancouver ACC, CYVR, NTMU, ZSE, Transport Canada         |
| Guadalajara   | Estadio Akron           | GAP                                       | MMEX ACC, Guadalajara Apch Control, MMGL, SMARTMEX       |
| Mexico City   | Estadio Azteca          | GACM                                      | MMEX ACC, MMMX, MMSM, MMTO, SMARTMEX                     |
| Monterrey     | Estadio BBVA            | OMA                                       | MMTY ACC, Monterrey Apch Control, MMTY, ADN, SMARTMEX    |
| Atlanta       | Mercedes Benz Stadium   | Atlanta DOA                               | ZTL, A80, ATL, PDK, RYY, LZU, ATCSCC                     |
| Boston        | Gillette Stadium        | MassPort                                  | ZBW, A90, BOS, ATCSCC                                    |
| Dallas        | AT&T Stadium            | DFW, City of Dallas                       | ZFW, D10, DFW, DAL, ATCSCC                               |
| Houston       | NRG Stadium             | HAS                                       | ZHU, I90, IAH, HOU, ATCSCC                               |
| Kansas City   | Arrowhead Stadium       | Kansas City DOA                           | ZKC, MCI, MKC, ATCSCC                                    |
| Los Angeles   | SoFi Stadium            | LAWA                                      | ZLA, SCT, LAX, BUR, VNY, LGB, SNA, ONT, ATCSCC           |
| Miami         | Hard Rock Stadium       | Miami-Dade Aviation Dept.                 | ZMA, MIA, PBI, ATCSCC                                    |
| NY/NJ         | MetLife Stadium         | PANYNJ                                    | ZNY, ZBW, ZDC, ZOB, N90, EWR, JFK, LGA, TEB, HPN, ATCSCC |
| Philadelphia  | Lincoln Financial Field | Philadelphia DOA                          | ZNY, ZBW, ZDC, ZOB, PHL, PNE, ATCSCC                     |
| San Francisco | Levi Stadium            | City of SFO, SJC AP Comm, Port of Oakland | ZOA, NCT, SFO, OAK, SJC, ATCSCC                          |
| Seattle       | Lumen Field             | Port of Seattle                           | ZSE, SEA, S46, BFI, ATCSCC                               |

# Game Schedule: Right click and open Acrobat Document Object

| FIFA WORLD CUP 2026 |                        |                  |               |                 |               |               |                |                  |                 |               |                  |                |                |                |                 |                   |                  |                |                  |                |
|---------------------|------------------------|------------------|---------------|-----------------|---------------|---------------|----------------|------------------|-----------------|---------------|------------------|----------------|----------------|----------------|-----------------|-------------------|------------------|----------------|------------------|----------------|
| MATCH SCHEDULE      |                        | GROUP STAGE      |               |                 |               |               |                | ROUND OF 32      |                 |               | ROUND OF 16      |                | QUARTER-FINALS |                | SEMI-FINALS     |                   | FINAL            |                |                  |                |
|                     |                        | Thursday 31 June | Friday 2 June | Saturday 3 June | Sunday 4 June | Monday 5 June | Tuesday 6 June | Wednesday 7 June | Thursday 8 June | Friday 9 June | Saturday 10 June | Sunday 11 June | Sunday 12 June | Monday 13 June | Tuesday 14 June | Wednesday 15 June | Thursday 16 June | Friday 17 June | Saturday 18 June | Sunday 19 June |
| WESTERN REGION      | VANCOUVER              |                  | AUS TUR       |                 | CAN QAT       |               | NZL EGY        |                  | SUI CAN         |               | NZL BEL          |                |                |                |                 |                   |                  |                |                  |                |
|                     | SEATTLE                |                  |               | EGY BEL         |               | USA AUS       |                |                  | SAI QAT         |               | EGY IRN          |                |                |                | 1G 3 RBG        |                   |                  |                |                  |                |
|                     | SAN FRANCISCO BAY AREA |                  | QAT SUI       |                 | AUT JOR       |               | TUR PAR        |                  | JOR ALG         |               | PAR AUS          |                |                |                | 1D 3 RBG        |                   |                  |                |                  |                |
|                     | LOS ANGELES            |                  | USA PAR       |                 | IRN NZL       |               | SUI SAU        |                  | BEL IRN         |               | TUR USA          |                |                |                | 2A 2B           |                   |                  |                |                  | WB3 WB4        |
| CENTRAL REGION      | GUADALAJARA            |                  | KOR CZE       |                 |               | MEX KOR       |                |                  |                 |               |                  |                |                |                |                 |                   |                  |                |                  |                |
|                     | MEXICO CITY            |                  | MEX RSA       |                 |               | UZB COL       |                |                  |                 |               |                  |                |                |                |                 |                   |                  |                |                  |                |
|                     | MONTERREY              |                  |               | SWE TUN         |               |               |                | TUN JPN          |                 |               |                  |                |                |                |                 |                   |                  |                |                  |                |
|                     | HOUSTON                |                  |               | GER CUW         |               | POR COD       |                |                  | NED SWE         |               | POR UZB          |                |                |                |                 |                   |                  |                |                  |                |
| EASTERN REGION      | DALLAS                 |                  |               | NED JPN         |               | ENG CRO       |                |                  |                 | ARG AUT       |                  |                |                |                |                 |                   |                  |                |                  |                |
|                     | KANSAS CITY            |                  |               |                 | ARG ALG       |               |                | ECU CUW          |                 |               |                  |                |                |                |                 |                   |                  |                |                  |                |
|                     | ATLANTA                |                  |               |                 |               | EGY CPV       |                | CZE RSA          |                 |               |                  |                |                |                |                 |                   |                  |                |                  |                |
|                     | MIAMI                  |                  |               |                 |               | KSA CPV       |                |                  |                 |               |                  |                |                |                |                 |                   |                  |                |                  |                |
| EASTERN REGION      | TORONTO                |                  | CAN BIH       |                 |               |               |                |                  |                 |               |                  |                |                |                |                 |                   |                  |                |                  |                |
|                     | BOSTON                 |                  |               | HAI SCO         |               |               |                |                  |                 |               |                  |                |                |                |                 |                   |                  |                |                  |                |
|                     | PHILADELPHIA           |                  |               |                 |               |               |                |                  |                 |               |                  |                |                |                |                 |                   |                  |                |                  |                |
|                     | NEW YORK NEW JERSEY    |                  |               |                 |               |               |                |                  |                 |               |                  |                |                |                |                 |                   |                  |                |                  |                |

All times are Eastern Time (ET).

|  |  |   |   |   |   |
|--|--|---|---|---|---|
| <b>GROUP A</b><br>MEXICO (MEX)<br>SOUTH AFRICA (RSA)<br>KOREA REPUBLIC OF (KOR)<br>CZECHIA (CZE) | <b>GROUP B</b><br>CANADA (CAN)<br>GERMANY (GER)<br>NORWAY (NOR)<br>NETHERLANDS (NED)     | <b>GROUP C</b><br>BRAZIL (BRA)<br>MOROCCO (MAR)<br>HUNGARY (HUN)<br>SWITZERLAND (SUI) | <b>GROUP D</b><br>USA (USA)<br>PARAGUAY (PAR)<br>AUSTRALIA (AUS)<br>TURKEY (TUR)      | <b>GROUP E</b><br>GERMANY (GER)<br>COSTA RICA (CRI)<br>NETHERLANDS (NED)<br>SQUADRO (SQU) | <b>GROUP F</b><br>NETHERLANDS (NED)<br>JAPAN (JPN)<br>SWEDEN (SWE)<br>TUNISIA (TUN) |
| <b>GROUP G</b><br>BELGIUM (BEL)<br>DENMARK (DEN)<br>FRANCE (FRA)<br>NEW ZEALAND (NZL)            | <b>GROUP H</b><br>SPAIN (ESP)<br>COSTA RICA (CRI)<br>SAUDI ARABIA (SAU)<br>URUGUAY (URU) | <b>GROUP I</b><br>FRANCE (FRA)<br>SENEGAL (SEN)<br>IRAC (IRQ)<br>NORWAY (NOR)         | <b>GROUP J</b><br>ARGENTINA (ARG)<br>ALGERIA (ALG)<br>AUSTRALIA (AUS)<br>JORDAN (JOR) | <b>GROUP K</b><br>PORTUGAL (POR)<br>COSTA RICA (CRI)<br>COLOMBIA (COL)                    | <b>GROUP L</b><br>ENGLAND (ENG)<br>GREECE (GRE)<br>CHINA (CHN)<br>PANAMA (PAN)      |





# FIFA Charter Flights for team movement

261 FIFA chartered flights to move teams from base camp locations to games and back during pool play as well as from game location to game location for single elimination rounds

68% domestic flights (wholly within the USA or Canada or Mexico)

26% international flights (between Canada/Mexico/USA)

## TOURNAMENT AIRPORTS

### Canada (2)

- YVR** – Vancouver
- YYZ** – Toronto

### Mexico (4)

- CUN** – Cancun
- GDL** – Guadalajara
- MTY** – Monterrey
- NLU** – Mexico City

### United States (32)

- ACY** – Atlantic City
- ATL** – Atlanta
- AUS** – Austin
- BNA** – Nashville
- BOS** – Boston
- CHA** – Chattanooga
- CLT** – Charlotte
- CMH** – Columbus
- DFW/DAL** – Dallas
- EWR** – Newark / New Jersey
- FLL** – Fort Lauderdale
- GSO** – Greensboro
- IAD** – Washington D.C.
- IAH/HOU/EFD** – Houston
- LAX** – Los Angeles
- MCI** – Kansas City
- MIA** – Miami
- OAK** – San Francisco Bay Area
- PBI** – West Palm Beach
- PDX** – Portland
- PHL** – Philadelphia
- PVD** – Providence
- SAN** – San Diego
- SBA** – Santa Barbara
- SDF** – Louisville
- SEA/BFI** – Seattle
- SJC** – San Jose (SF Bay Area)
- SLC** – Salt Lake City
- SNA** – Orange County / Irvine
- TPA** – Tampa
- TUS** – Tucson

# Charter Flights Analysis – 261 flights to move teams



## FBO Priority Approach

Fixed-base operators prioritised wherever possible to enhance operational flexibility, reduce security risks, and improve team movement efficiency.

Flight Operators contracted for Charter Flights, Charters, Percentage – Update due this week, which may change numbers/percentages

|                    |                   |                          |                           |
|--------------------|-------------------|--------------------------|---------------------------|
| Aeromexico-33, 13% | Air Canada-21, 8% | Alaskan Airlines-25, 10% | American Airlines-42, 16% |
| Breeze-79, 30%     | Delta-4, 2%       | JetBlue-30, 11%          | United-27, 10%            |

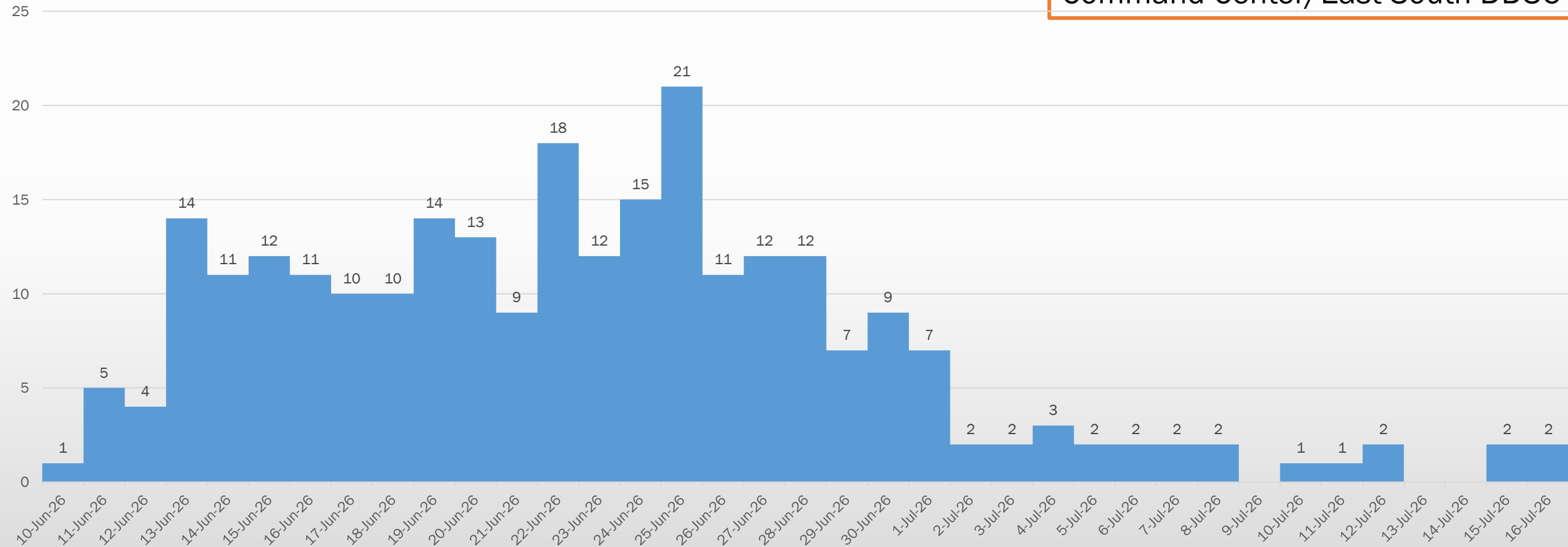
| Cross border charter flight analysis |     |     |
|--------------------------------------|-----|-----|
| Domestic                             | 184 | 70% |
| International                        | 65  | 25% |
| To be determined by match outcome    | 12  | 5%  |



# Charter Flights Analysis – 261 flights to move teams

Realtime coordination between FIFA  
North America HQ and FAA  
Command Center/East-South DDSO

Charters Flights by Day



# Charter Flights for FIFA Guests & VIPs

## Guest & VIP Charter Operations

Beyond team charters, the tournament operational framework accommodates additional high-value movements requiring dedicated coordination and capacity awareness.

### Guest Charter Operations

Approximately 5 guest charters operating throughout the tournament period

- Comparable aircraft size to team charters
- Similar operational profiles and requirements
- Integrated into standard coordination processes

01

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### Near-Daily Operations

Guest and VIP charters operate near-daily throughout the tournament duration

### VIP Charter Operations

Approximately 2 large-size private VIP charters requiring enhanced handling

- Large-size private jet (16-20 pax)
- Premium service requirements
- Priority handling coordination

02

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### Primary Hub Utilisation

Operations concentrated at primary hub airports with full support infrastructure



# FIFA 2026 World Cup Special Event Planning

- ATFM plans in final stages by ACCs, FMUs and Aviation Security

| Initiative  | Trigger                            |
|---|------------------------------------|
| Airport construction planning/peak capacity   | Ongoing                            |
| ATC peak capacity discussions   | Ongoing                            |
| ATFM measures such as Special Air Traffic Procedures, Route Structure, GDP's and AFP's        | Ongoing                            |
| Special Event Planning considerations such as NOTAMs for special arrival/departure procedures | Ongoing                            |
| Flight Operator, IATA outreach  | Ongoing                            |
| CADENA coordination   | Ongoing                            |
| Possible security measures  | Taking shape, see following slides |



# USA Airspace Security

- **Interagency Coordination**

- The FAA is coordinating with DHS (as the Lead Federal Agency (LFA)), the FBI, and other stakeholders to identify appropriate airspace security measures.

- **Requests received**

- TFR requests for match sites in process

- **Anticipated requests include**

- Fan viewing sites
- Team Base Camps



# Mexico Airspace Security – Plan Kukulcan

| Surveillance and Protection Zones |                     |                        | All zones/circles are SFC to 19,000'           |  |                              |                              |
|-----------------------------------|---------------------|------------------------|--|--|------------------------------|------------------------------|
| City                              | Stadium             | Fan Festival           | Stadium Exclusive Zone                         | Fan Festival Exclusive Zone                    | Outer Security Circle        | Peripheral Security Circle   |
| Mexico City                       | Mexico City         | Zocalo                 | 1.5 NM Radius of 19° 18´ 10" N, 99° 09´ 01" W  | 1.2 NM Radius of 19° 25´ 57" N, 99° 07´ 59" W  | 15 NM Radius of Stadium      | 60 NM Radius of Stadium      |
| Guadalajara                       | Guadalajara Stadium | Plaza de la Liberacion | 1.5 NM Radius of 20° 40´ 54" N, 103° 27´ 45" W | 1.5 NM Radius of 20° 40´ 37" N, 103° 20´ 44" W | 15 NM Radius of Stadium      | 60 NM Radius of Stadium      |
| Monterrey                         | Monterrey           | Parque Fundidora       | 1.5 NM Radius of 25° 40´ 09" N, 100° 14´ 40" W | 1.5 NM Radius of 25° 40´ 38" N, 100° 16´ 50" W | 15 NM Radius of Stadium      | 60 NM Radius of Stadium      |
| Cancun                            |                     | Fan Festival Tajamar   |  | 1.5 NM Radius of 21° 08´ 48" N, 86° 48´ 52" W  | 15 NM Radius of Fan Festival | 60 NM Radius of Fan Festival |

## Requirements

Authorized Flight Plan

ADS-B

Transponder

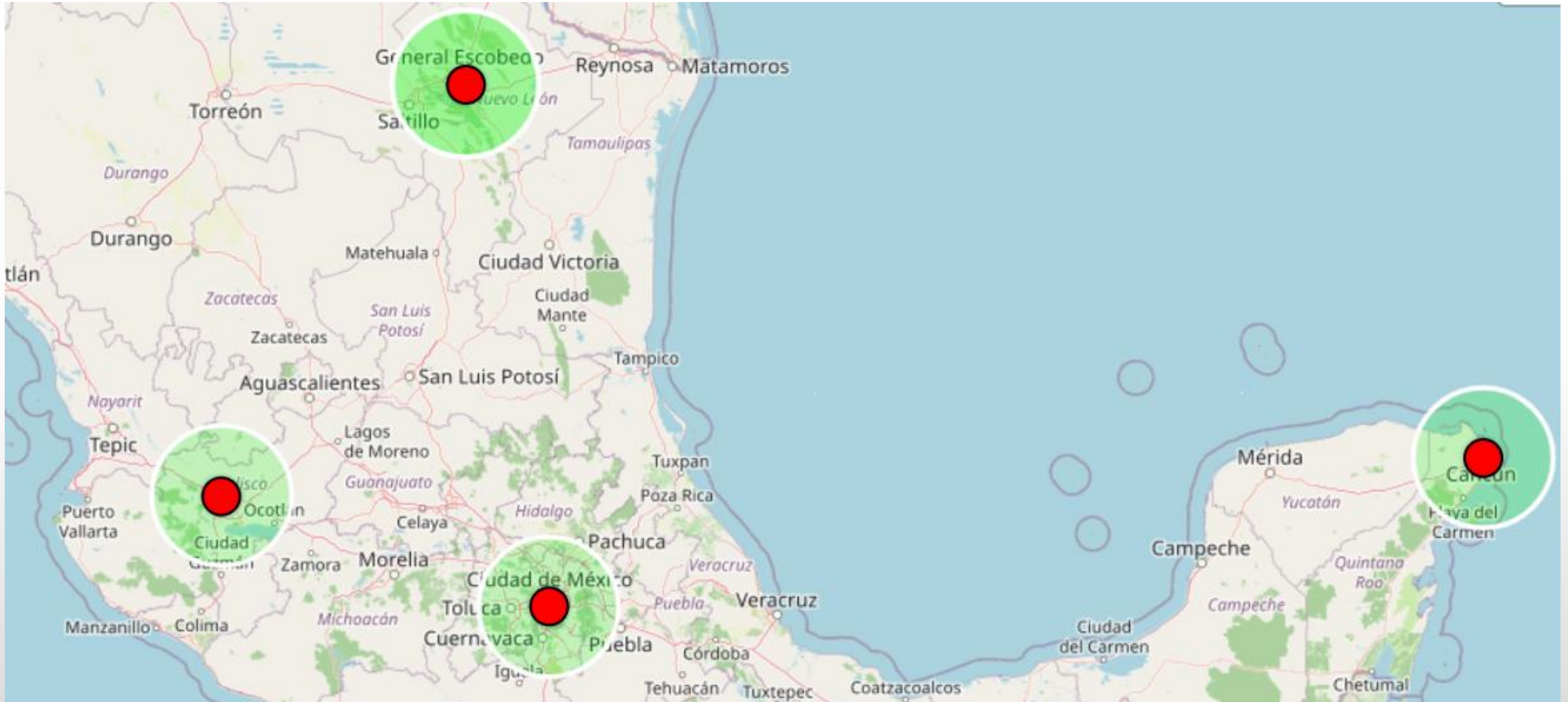
In communication with ATC

Entry authorization from Mexico Military

**See Official Gazette of the Federation  
publication on April 20<sup>th</sup>, 2026**



# Mexico Enhanced Airspace Security – Plan Kukulkan



# Canada Airspace Security

## Transport Canada Aeronautical Information Circular (AIC) 011/2026 – Vancouver and Toronto Region Changes and Restrictions to Airspace in Conjunction with the FIFA Men’s World Cup, June 12 to July 7

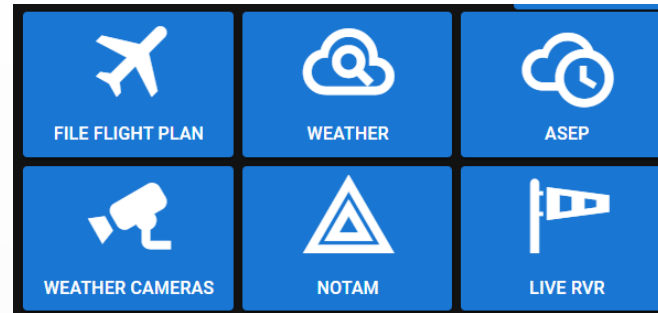
[navcanada.ca/en/011aic2026en.pdf](http://navcanada.ca/en/011aic2026en.pdf)

Details include:

- Airspace Overview
- VFR Restrictions to Billy Bishop and Vancouver Harbour Class C Control Zones
- PPR/Slot Time Enforcement
- RPAS Restrictions
- Flight Planning Procedures



# Weather Tools



## Canada:

[weather.gc.ca/model\\_forecast/aviation\\_e.html](https://weather.gc.ca/model_forecast/aviation_e.html)

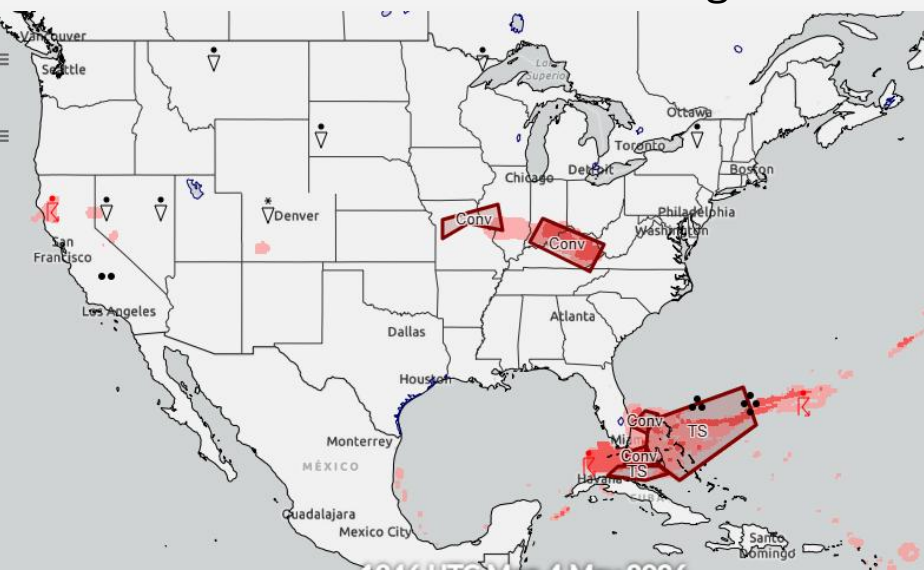
[plan.navcanada.ca/gfa/](https://plan.navcanada.ca/gfa/)

## USA:

NOAA Match Site Climatological Statistical Study: Analysis of 15 years of Convective SIGMETs and AIRMET data for each match site [storymaps.arcgis.com/stories/8ef6a1fbd3544d39b93931fa349e60e9](https://storymaps.arcgis.com/stories/8ef6a1fbd3544d39b93931fa349e60e9)

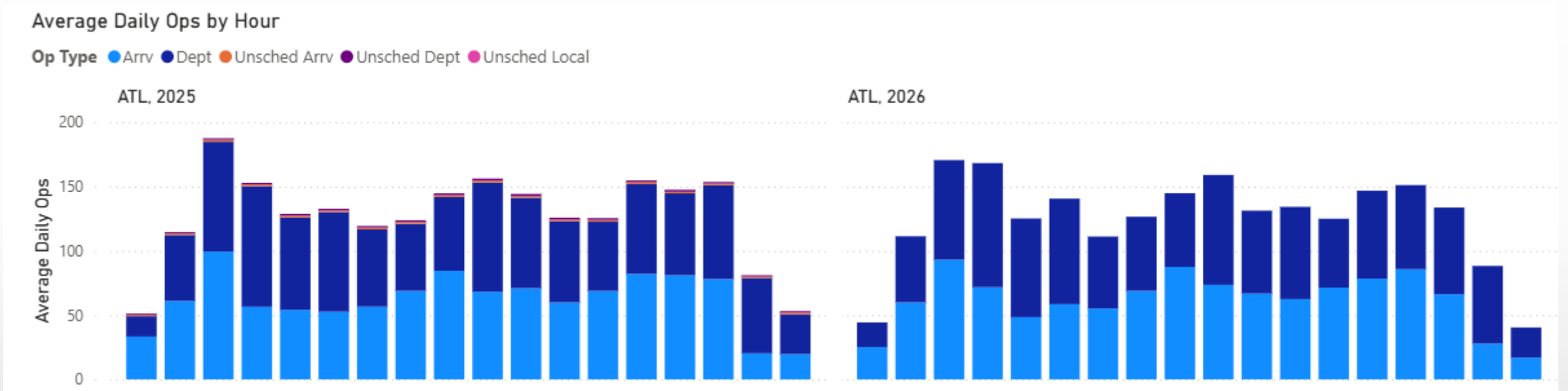
Traffic Flow Management Portal: Real time dashboards with Terminal Area Forecasts, Traffic Flow Management Collaborative Forecasts for Thunderstorms, Weather Models and much more. [aviationweather.gov/trafficflowmgmt/](https://aviationweather.gov/trafficflowmgmt/)

Aviation Weather: Wide range of observations and forecasts - [aviationweather.gov](https://aviationweather.gov)



# Volume Tools

Available inside ATO firewall: [Power BI dashboard](#)



IATA is providing updates on international carrier additional flights and up-gauging of airframes.



# Volume Tools – Largest Fractional Operator as of May 6th

Schedule Match Flights Groups Export



## FIFA SCHEDULE



Click the box of the date and location you're interested in to see all related flights  
Games or Stadiums may not be represented on this display if there are no flights within 50 miles for the time range or date.

Each number represents the count of flights  
Flights are counted for DPTR and ARVL location

| Stadium                        | Fri 6/5 | Sat 6/6 | Sun 6/7 | Mon 6/8 | Tue 6/9 | Wed 6/10 | Thu 6/11 | Fri 6/12 | Sat 6/13 | Sun 6/14 | Mon 6/15 | Tue 6/16 | Wed 6/17 | Thu 6/18 | Fri 6/19 | Sat 6/20 | Sun 6/21 | Mon 6/22 | Tue 6/23 | Wed 6/24 | Thu 6/25 | Fri 6/26 | Sat 6/27 | Sun 6/28 | Mon 6/29 | Tue 6/30 | Wed 7/1 | Thu 7/2 | Fri 7/3 | Sat 7/4 | Sun 7/5 | Mon 7/6 | Tue 7/7 | Wed 7/8 | Thu 7/9 | Fri 7/10 | Sat 7/11 | Sun 7/12 | Mon 7/13 | Tue 7/14 | Wed 7/15 | Thu 7/16 | Fri 7/17 | Sat 7/18 | Sun 7/19 | Mon 7/20 | Tue 7/21 | Wed 7/22 | Thu 7/23 | Fri 7/24 |   |   |   |   |  |
|--------------------------------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---|---|---|---|--|
| Atlanta Stadium                | 4       | 1       | 3       | 4       | 6       |          | 8        | 5        | 6        | 8        | 5        | 4        | 6        | 5        | 2        | 6        | 6        | 10       | 4        | 5        | 3        | 4        | 3        | 4        | 1        |          | 2       | 1       | 1       | 1       | 1       | 3       | 2       | 2       | 1       | 1        | 2        | 4        | 1        | 6        | 5        |          | 3        | 4        | 4        |          |          |          |          |          |   | 1 | 1 |   |  |
| Boston Stadium                 | 6       | 1       | 4       | 3       | 5       | 7        | 3        | 4        | 4        | 9        | 3        | 6        | 4        | 6        | 8        | 6        | 7        | 6        | 13       | 3        | 4        | 6        | 3        | 11       | 1        |          | 6       | 1       | 2       | 2       | 5       | 5       | 2       | 2       | 3       | 4        | 3        | 6        | 1        | 6        | 2        | 2        | 2        | 1        | 3        | 1        |          |          |          | 1        | 1 | 3 |   |   |  |
| Dallas Stadium                 | 8       | 3       | 6       | 5       | 4       | 7        | 4        | 4        | 3        | 15       | 3        | 5        | 17       | 13       | 5        | 7        | 9        | 5        | 2        | 3        | 4        | 4        | 3        | 10       | 2        |          | 2       | 1       | 2       |         | 4       | 2       | 3       | 2       | 2       | 1        |          | 2        | 5        | 9        | 5        | 2        | 2        | 2        | 2        | 2        | 5        | 1        | 1        | 2        | 2 |   |   |   |  |
| Guadalajara Stadium            |         |         |         |         |         |          | 1        | 1        |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 1        |          |         |         |         |         |         |         |         |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |   |   |   |   |  |
| Houston Stadium                | 6       | 4       | 4       | 2       | 10      | 2        | 7        | 4        | 1        | 3        | 8        | 1        | 6        | 4        | 8        | 7        | 5        | 6        | 3        | 3        | 2        | 2        | 4        | 1        | 3        | 2        | 5       | 1       | 4       |         | 8       | 2       | 3       | 2       | 2       | 2        | 5        |          | 2        | 3        |          | 1        |          | 3        |          |          | 1        | 2        | 3        | 1        |   |   |   |   |  |
| Kansas City Stadium            |         |         | 2       | 1       |         |          | 1        | 1        |          | 1        | 4        | 3        | 7        | 2        | 2        | 3        | 4        |          |          | 1        | 1        | 1        | 1        | 2        | 2        | 1        | 3       |         | 1       | 1       | 4       | 1       |         |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |   | 3 | 1 |   |  |
| Los Angeles Stadium            | 10      | 6       | 17      | 7       | 3       | 7        | 11       | 14       | 10       | 6        | 6        | 4        | 6        | 4        | 6        | 7        | 2        | 6        | 6        | 1        | 13       | 5        | 15       | 6        | 12       | 1        | 2       | 4       | 6       | 4       |         |         |         |         | 3       | 3        | 4        | 1        | 3        | 3        | 6        | 6        | 3        |          | 3        | 2        | 5        | 6        | 7        | 3        | 3 | 1 | 2 | 2 |  |
| Mexico City Stadium            |         |         |         | 1       | 2       | 1        |          | 2        |          | 1        |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |         |         |         |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |   |   |   |   |  |
| Miami Stadium                  | 4       | 3       | 4       | 4       | 4       | 2        | 4        | 3        | 4        | 8        | 5        | 3        | 5        | 2        | 3        | 7        | 11       | 8        | 4        | 8        | 3        | 3        | 10       | 8        | 2        | 1        | 2       | 1       | 4       | 2       | 2       | 1       | 2       | 1       | 2       | 1        | 2        | 1        | 4        | 4        | 2        |          | 3        | 2        | 1        | 1        | 2        |          | 1        |          |   | 3 |   |   |  |
| Monterrey Stadium              |         |         |         |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          | 1        |          | 1        |          |          |          |          |          |         |         |         |         |         |         |         |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |   |   |   |   |  |
| New York New Jersey Stadium    | 20      | 23      | 20      | 26      | 27      | 16       | 28       | 18       | 10       | 25       | 13       | 13       | 18       | 21       | 11       | 18       | 24       | 13       | 16       | 18       | 19       | 14       | 5        | 14       | 4        | 8        | 12      | 9       | 6       | 6       | 11      | 5       | 5       | 5       | 9       | 6        | 7        | 12       | 7        | 7        | 7        | 8        | 9        | 8        | 24       | 9        | 4        | 6        | 6        | 10       |   |   |   |   |  |
| Philadelphia Stadium           | 4       | 2       | 7       | 6       | 4       |          | 4        |          | 3        | 1        | 3        | 4        | 5        | 7        | 1        | 1        | 1        | 4        | 1        | 2        | 2        | 2        | 3        | 2        | 2        | 3        |         |         | 3       | 2       | 4       | 1       | 3       | 1       |         |          |          |          | 1        | 1        |          | 1        | 2        |          | 1        |          |          | 1        |          | 1        | 2 |   |   |   |  |
| San Francisco Bay Area Stadium | 11      | 5       | 7       | 7       | 4       | 5        | 8        | 11       | 3        | 14       | 10       | 5        | 7        | 4        | 5        | 7        | 3        | 3        |          | 6        | 4        | 4        | 7        | 6        | 4        |          | 7       | 4       |         |         |         | 3       | 2       | 5       | 1       | 2        | 1        | 3        | 3        | 2        |          | 2        | 2        | 1        | 1        | 3        |          | 3        |          | 1        | 1 |   |   |   |  |
| Seattle Stadium                | 6       | 4       | 7       | 1       | 2       |          | 1        | 2        |          | 8        | 5        | 1        | 2        | 6        | 6        | 5        | 8        | 6        | 1        | 5        | 1        | 6        | 4        | 2        | 2        | 1        | 2       | 2       |         | 2       | 2       |         |         | 3       | 2       | 1        | 1        | 2        |          |          | 2        | 1        | 2        |          | 4        |          | 1        | 2        | 3        |          | 1 | 3 | 3 |   |  |
| Toronto Stadium                | 2       |         | 1       | 2       | 3       | 3        | 3        | 1        | 2        | 2        | 1        | 1        |          | 1        |          | 1        |          | 1        |          |          |          |          |          |          |          |          |         | 1       |         |         |         |         |         |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |   |   |   |   |  |
| Vancouver Stadium              | 2       |         | 2       |         | 1       |          | 4        | 2        |          | 4        | 2        | 1        | 3        | 2        | 4        |          | 1        | 2        | 1        |          |          | 1        |          |          |          |          |         |         |         |         |         |         |         |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |   |   |   | 1 |  |

**Filters**

Operating Company  
All

Miles Away  
50

Group

- Final
- Group A
- Group B
- Group C
- Group D
- Group E
- Group F
- Group G
- Group H
- Group I
- Group J
- Group K
- Group L
- Quarter Finals
- Round of 16
- Round of 32
- Semi Finals

Matches on Day

- Matches
- No Matches

Data Quality

|             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Grand Total | 83 | 52 | 84 | 69 | 78 | 50 | 87 | 72 | 46 | ## | 68 | 53 | 84 | 79 | 62 | 71 | 85 | 71 | 46 | 68 | 48 | 61 | 51 | 72 | 27 | 19 | 47 | 26 | 30 | 15 | 49 | 28 | 31 | 20 | 32 | 19 | 34 | 45 | 27 | 38 | 29 | 24 | 25 | 31 | 49 | 25 | 14 | 13 | 24 | 29 |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

# Ongoing ATFM planning areas, to balance demand with capacity

- Arrival and Departure routes/procedures for each game site
- NOTAMs (including Pointer NOTAMs) for the arrival/departure procedures
- Parking at FBOs
- Possible Technical Operations moratoriums on maintenance activities
- Security initiatives - Temporary Flight Restrictions (TFR), including UAS TFRs
- VIPs/head of state attendance is expected at multiple game sites
- 261 Charter flights for team movement
- 10 Million visitors, 6 million with game tickets, FIFA is currently seeing 1,000 foreign applicants to the FIFA pass system: VISA -> Airline -> Lodging -> Domestic transportation



# ATO ATFM Planning by DDSO Region

## West

Seattle Area - preparing for increased General Aviation (GA) traffic in Renton, Auburn, Tacoma Narrows and Bellingham. BFI parking plan with mobile customs in final planning stages. Close coordination with Vancouver Center for cross border flows.

San Francisco Area – Parking management plans at airports and FBOs are underway, SFO like to have a Prior Permission Required (PPR) system. Oakland and San Jose are planning on the majority of additional traffic.

Los Angeles Area – Parking plans are being finalized, noise abatement procedures are being communicated, analyzing Van Nuys and Burbank impacts. Military airspace releases have been requested.



# ATO ATFM Planning by DDSO Region

## Central – PPRs at many airports

Houston Area – Arrival routes defined. Houston Hobby parking plan being refined with new constraints.

Dallas Area – Arrival routes defined, satellite airport parking capacities defined (Dallas Fort Worth, Dallas Love, Fort Worth Meacham, Addison, Dalls Executive, Arlington Municipal, Fort Worth Alliance Fort Worth Spinks, Denton, Mesquite, McKinney, Lancaster, Grand Prairie)

Kansa City Area – Arrival routes defined, airport parking at secondary airports is being refined.



# ATO ATFM Planning by DDSO Region

**East South** – Ongoing meetings to identify ground constraints, PPR requirements, parking limitations.

South Florida Area - Identifying impact to Miami and Palm Beach should there be a VIP TFR. Miami-Opa Locka Executive (OPF) is primary airport of concern due to close proximity to the match site and limited parking.

Atlanta Area – Limited capacity for “Remain Over Night” (RON) parking for large aircraft and any short-notice charter flights that require gates or ground handling.



# ATO ATFM Planning by DDSO Region

**East North** – System Impact Reports (SIRs) have been authored for Boston, LaGuardia, Newark, White Plains, JFK, Philadelphia and Teterboro along with surrounding smaller airports.

Engagement continues between ATC, FBOs, airport authorities, NetJets, NBAA to align on parking constraints and reservations and demand mitigation strategies.

Focus on July 4<sup>th</sup> matches in Philadelphia and Boston, July 5<sup>th</sup> matches in New York/New Jersey and the final match in New York/New Jersey, along with other special events, airshows, and flyovers.



# Additional special events that are being planned for

| Location     | America 250 Flyover/Sail250        | FIFA World Cup                    |
|--------------|------------------------------------|-----------------------------------|
| Philadelphia | June 14                            | June 14 - 1900L                   |
| NY/NJ        | International Naval Review: July 4 | June 30 - 1700L<br>July 5 - 1600L |
| Boston       | Sail Boston: July 11               | July 9 - 1600L                    |

Requests from Qatar Airways (FIFA Sponsor) to overfly matches in the Bay Area and Seattle in a FIFA branded plane. Dates and details still being worked out

**Yellow** highlight indicates events on the same day

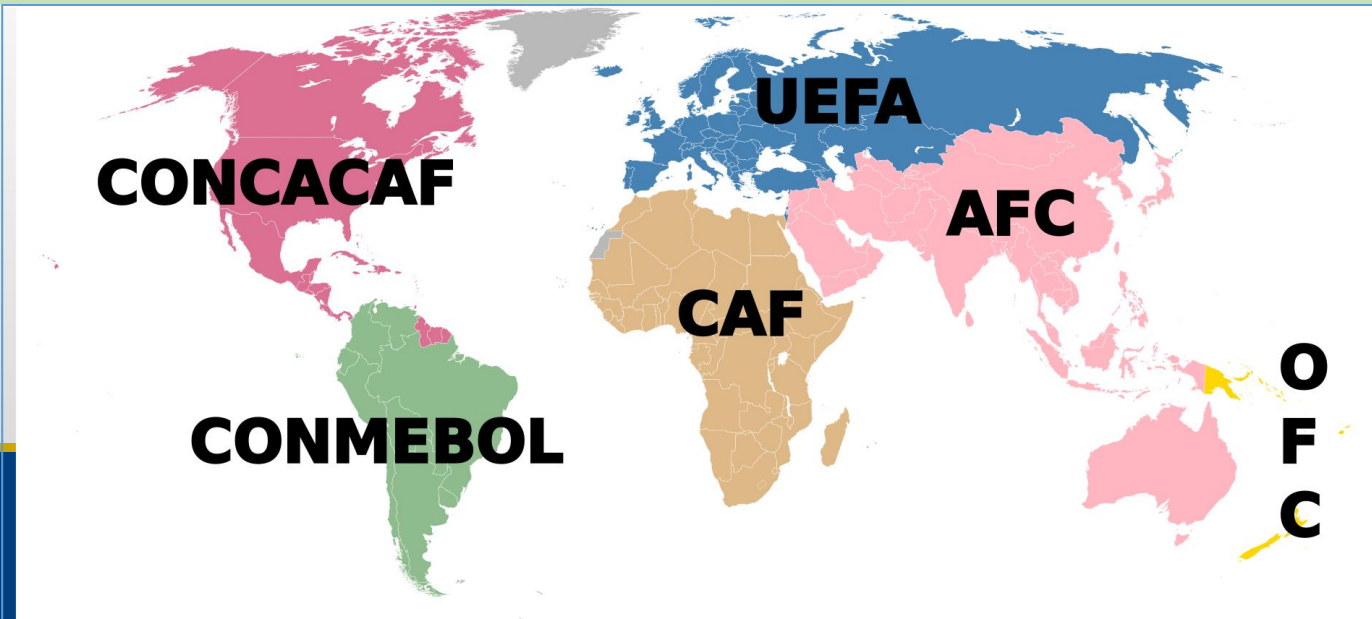
**Blue** highlight indicates events on days close to each other



# World Cup 2026 Teams

Match Schedule: <https://www.fifa.com/en/tournaments/mens/worldcup/canadamexicousa2026/scores-fixtures?country=US&wtw-filter=ALL>

| Confederation  | Slots |
|--|-------|
| <b>UEFA</b> (Union of European Football Association) <i>Austria, Belgium, Croatia, England, France, Germany, Netherlands, Norway, Portugal, Scotland, Spain, Switzerland, Bosnia &amp; Herzegovina, Sweden, Turkey, Czech Republic</i> | 16    |
| <b>CAF</b> (Confederation of African Football) <i>Egypt, Morocco, Tunisia, Algeria, Ghana, Cape Verde, South Africa, Ivory Coast, Senegal, DR Congo</i>  | 9     |
| <b>AFC</b> (Asian Football Confederation) <i>Australia, Iran, Japan, Jordan, South Korea, Uzbekistan, Saudi Arabia, Qatar, Iraq</i>  | 8     |
| <b>CONCACAF</b> (Confederation of North, Central America & Caribbean Football) <i>Canada, Curacao, Haiti, Mexico, Panama, United States</i>  | 6     |
| <b>CONMEBOL</b> (Confederación Sudamericana de Fútbol) <i>Argentina, Brazil, Ecuador, Uruguay, Columbia, Paraguay</i>  | 6     |
| <b>OFC</b> (Oceania Football Confederation) <i>New Zealand</i>   | 1     |



# Organizations and Points of Contact

| Function                                       | Canada  | Mexico   | United States   |
|--|---|--|---|
| <b>Regulator:</b>                              | Transport Canada  | Agencia Federal de Aviación Civil (AFAC)                                     | Federal Aviation Administration (FAA)   |
| <b>Air Navigation Service Provider (ANSP):</b> | Nav Canada  | Servicios a la Navegación en el Espacio Aéreo Mexicano (SENEAM)              | Federal Aviation Administration (FAA)<br>Air Traffic Organization (ATO)   |
| <b>Air Traffic Flow Management:</b>            | National Traffic Management Unit (NTMU)<br>National Operations Center (NOC) | Sistema de Monitoreo, Administración y Regulación del Tránsito Aéreo (SMART) | Distributed among Air Route Traffic Control Centers and centralized at the Joint Air Traffic Operations Command (JATOC) |

| People                              | Canada                                    | Mexico  | United States  |
|-------------------------------------|---|---|--|
| <b>Air Traffic Flow Management:</b> | Anik Bertrand, Naomi Fleury, Teddy Diress | Guillermo (Memo) Manzo  | Mike Porcello, Vern Payne, Joe Dotterer, Shawn McClosky, Joshua Jennings |
| <b>Regional Organization:</b>       |   | National (Mexico City) Astrid Jaimes, NE (Monterrey) Arturo Villela, West (Guadalajara) Oliver Ruiz | Jason Poole, Ernie Snyder, Clint Smith, Neil Byers                       |

| FIFA Coordinators                          | Canada     | Mexico | United States                                  |
|--|------------|--------|--|
| <b>Global Travel Lead:</b> Barbara Schulte | Marco Wirz |        | Joao Aguiar, Jennifer Nelson, Spencer Williams |

- Others
- Office of the US Secretary of Transportation: Brandon White
  - DDSO and ATCSCC staff: Louisa Ocasio, Sue Ashley
  - ICAO Regional Officer: Josue Gonzalez
  - CADENA: Joe Hof, Al Castillo



**CANSO ATFM Data Exchange Network for the Americas (CADENA)**  
Regional Air Traffic Flow Management will be used for real-time management of demand from the South.

CANSO is working with two vendors who have offered ATFM as a web service for the duration of the event.



# Tactical Release Trends and Usage

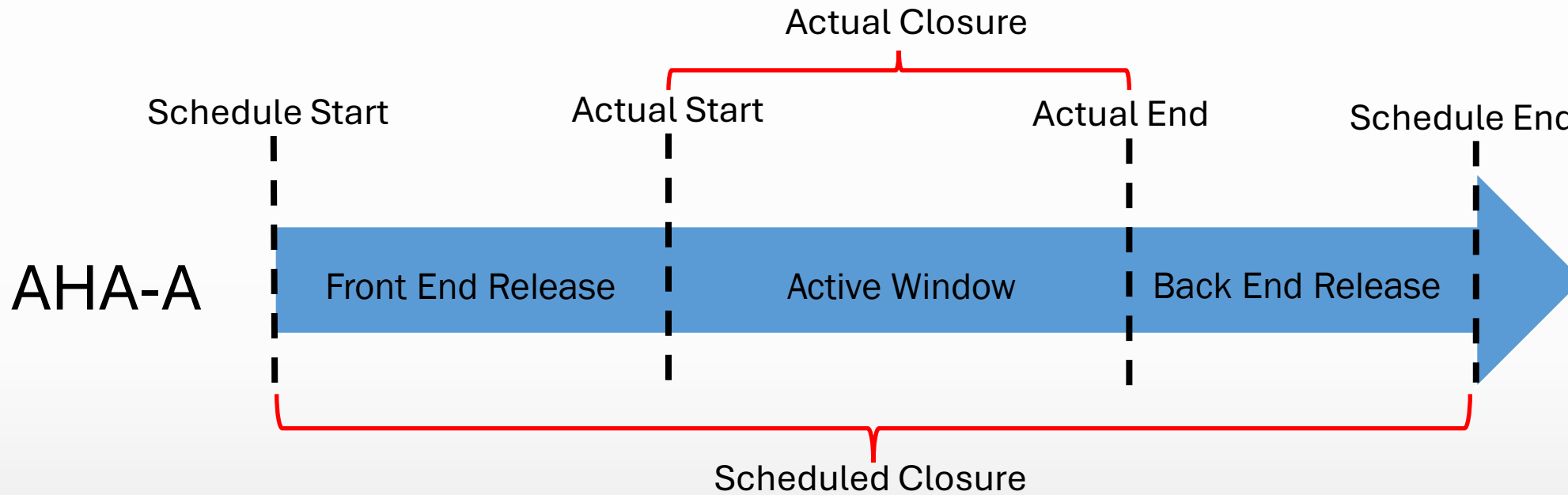


# Overview

- Tactical Release Analysis
  - Definitions
  - Historical Stats and Trends
  - Example of Flights using Tactical Release
  - Overall Effectiveness of Tactical Release



# Definitions



| Date      | Hazard name | Sched Start | Start time | End time | Sched End | T-0  |
|-----------|-------------|-------------|------------|----------|-----------|------|
| 3/11/2024 | AHA-A       | 2:13        | 3:39       | 4:12     | 6:35      | 4:09 |
| 3/11/2024 | AHA-MMFR    | 2:13        | 2:13       | 4:40     | 6:44      | 4:09 |



# Window Durations by Hazard (9/2023 – 3/2026)

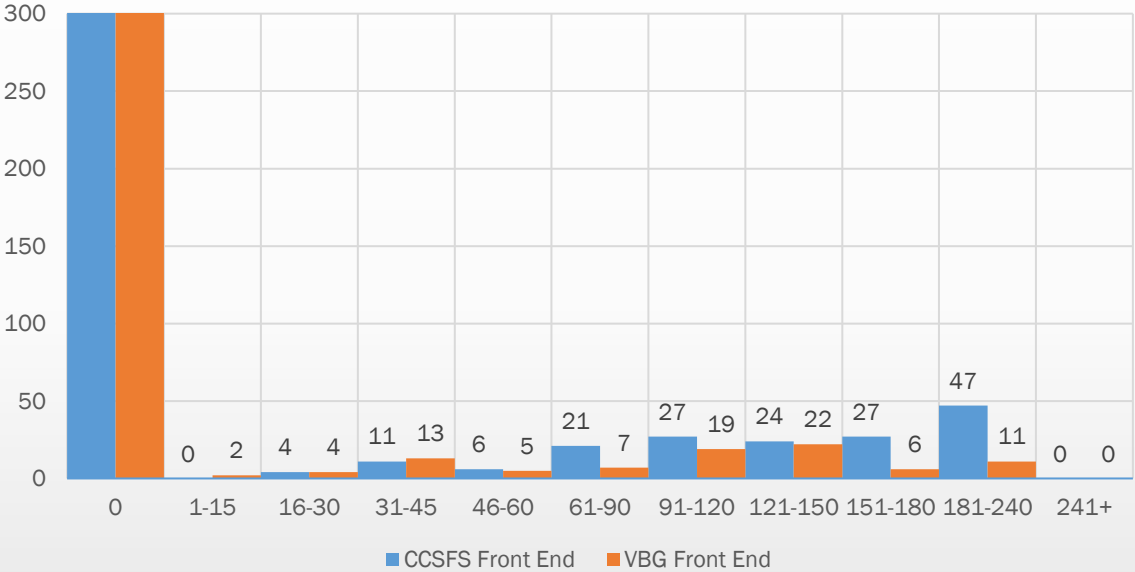
| CCSFS              | Missions   | Front End Duration | Active Window Duration | Back End Duration | Total Duration |
|--------------------|------------|--------------------|------------------------|-------------------|----------------|
| AHA-A              | 300        | 39                 | 36                     | 146               | 220            |
| AHA-B              | 299        | 36                 | 63                     | 125               | 223            |
| AHA-C              | 26         | 3                  | 56                     | 106               | 164            |
| AHA-D              | 13         | 0                  | 51                     | 127               | 178            |
| AHA-E              | 4          | 0                  | 71                     | 155               | 227            |
| AHA-F              | 4          | 0                  | 73                     | 154               | 227            |
| AHA-REENTRY        | 6          | 0                  | 84                     | 72                | 156            |
| <b>CCSFS Total</b> | <b>652</b> | <b>34</b>          | <b>50</b>              | <b>134</b>        | <b>218</b>     |

| VBG              | Missions   | Front End Duration | Active Window Duration | Back End Duration | Total Duration |
|------------------|------------|--------------------|------------------------|-------------------|----------------|
| AHA-A            | 181        | 37                 | 35                     | 149               | 220            |
| AHA-B            | 89         | 34                 | 52                     | 128               | 215            |
| AHA-C            | 25         | 2                  | 59                     | 156               | 217            |
| AHA-D            | 11         | 0                  | 124                    | 240               | 364            |
| AHA-E            | 4          | 0                  | 110                    | 250               | 360            |
| AHA-MMFR         | 99         | 0                  | 97                     | 145               | 244            |
| AHA-MMFR1        | 16         | 0                  | 80                     | 96                | 176            |
| AHA-MMFR2        | 16         | 0                  | 83                     | 94                | 177            |
| AHA-REENTRY      | 51         | 1                  | 95                     | 117               | 213            |
| <b>VBG Total</b> | <b>492</b> | <b>20</b>          | <b>64</b>              | <b>141</b>        | <b>224</b>     |



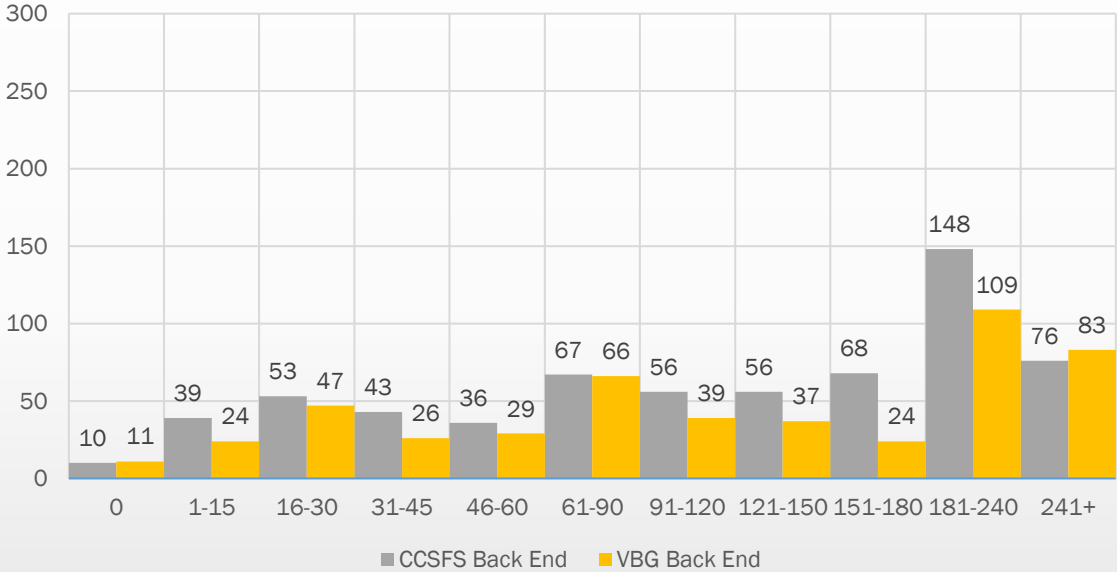
# Window Durations Histogram (9/2023 -3/2026)

Front End Histogram (CCSFS vs VBG)



CCSFS: 167 out of 652 (25%) were non zero (avg 135 mins)  
 VBG: 88 out of 492 (18%) were non zero (avg 127 mins)

Back End Histogram (CCSFS vs VBG)

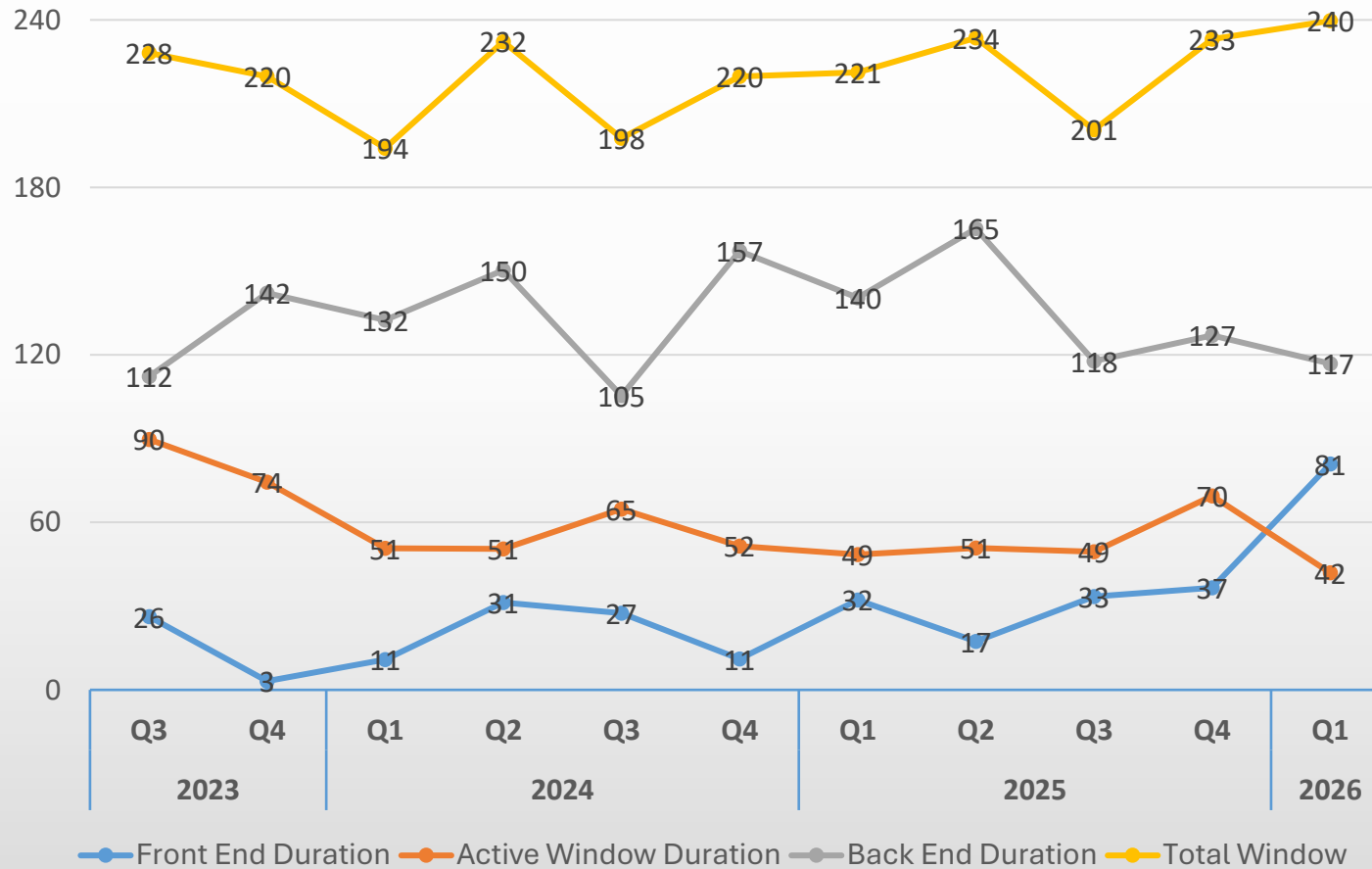


CCSFS: 642 out of 652 (98%) were non zero (avg 136 mins)  
 VBG: 481 out of 492 (97%) were non zero (avg 144 mins)



# Window Duration Trends (9/2023 -3/2026)

CCSFS & VBG Window Duration Trends

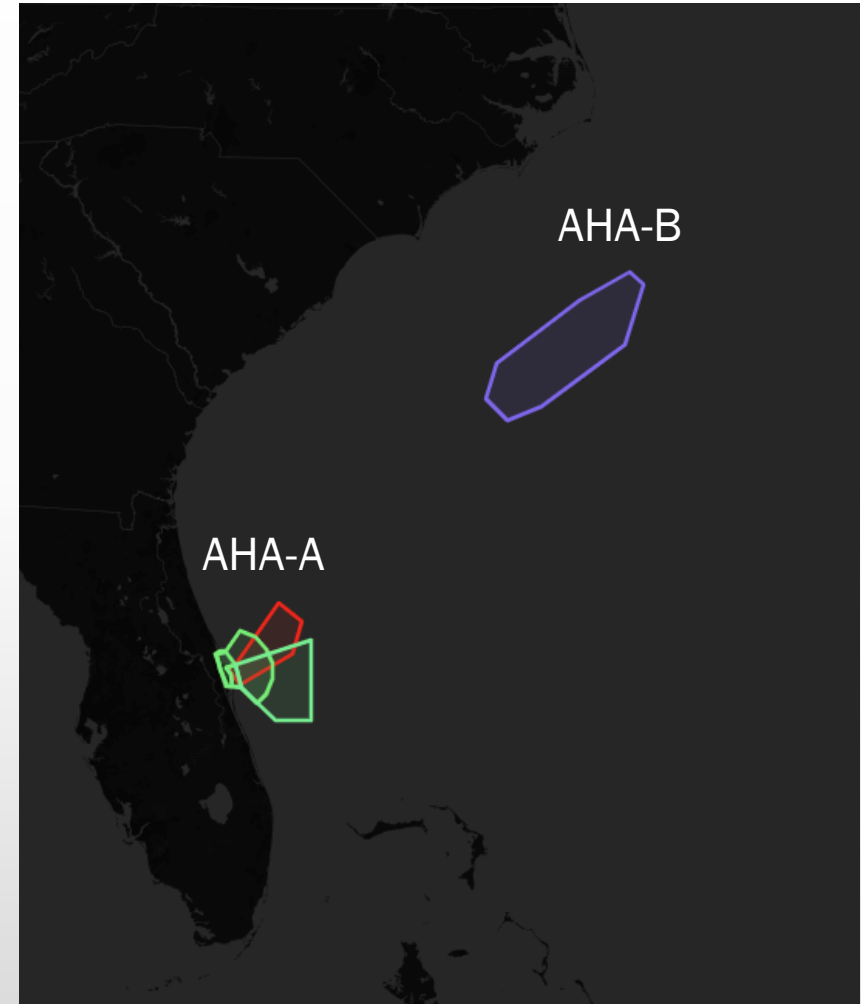


# Tactical Release Flights Example

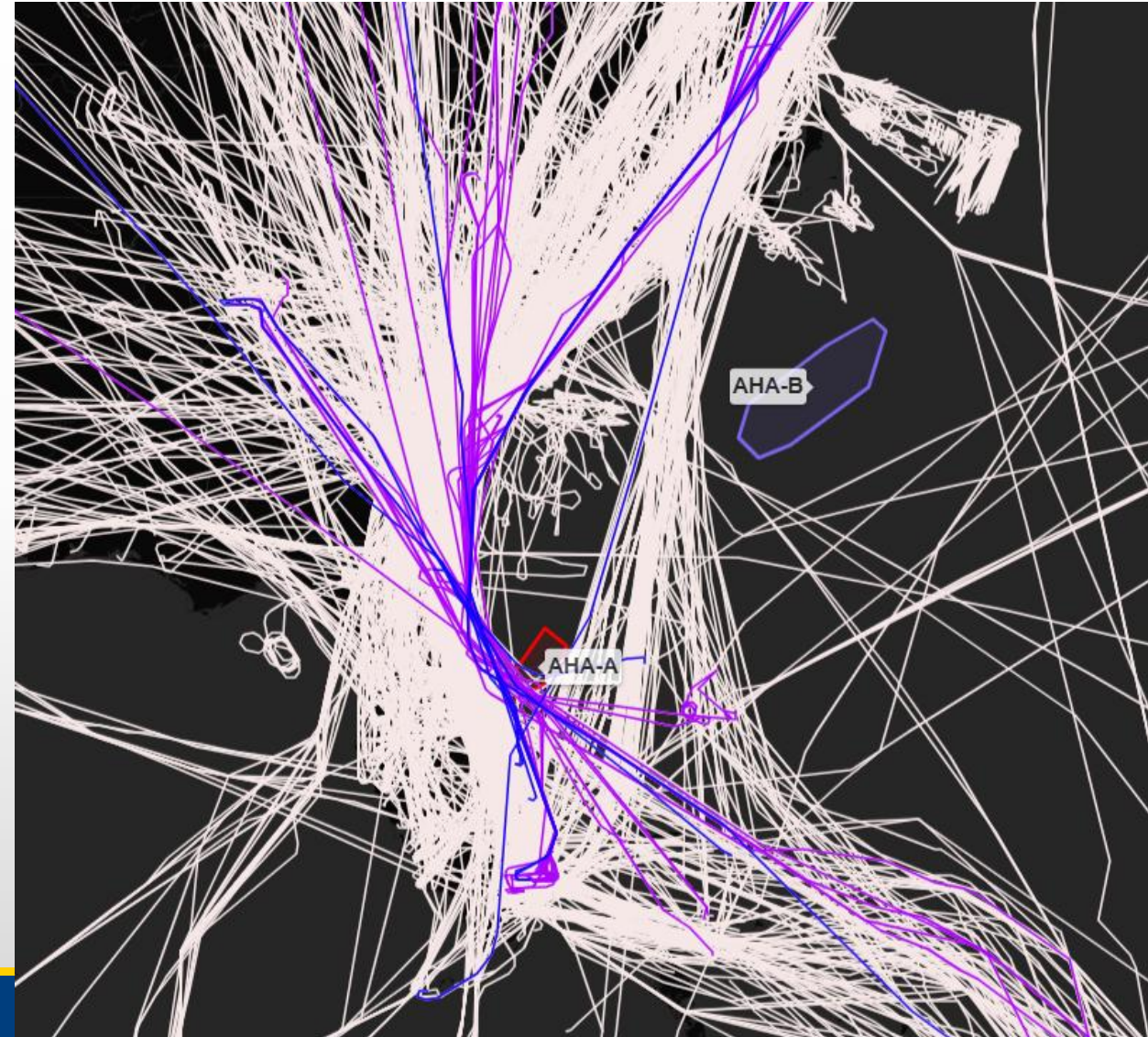
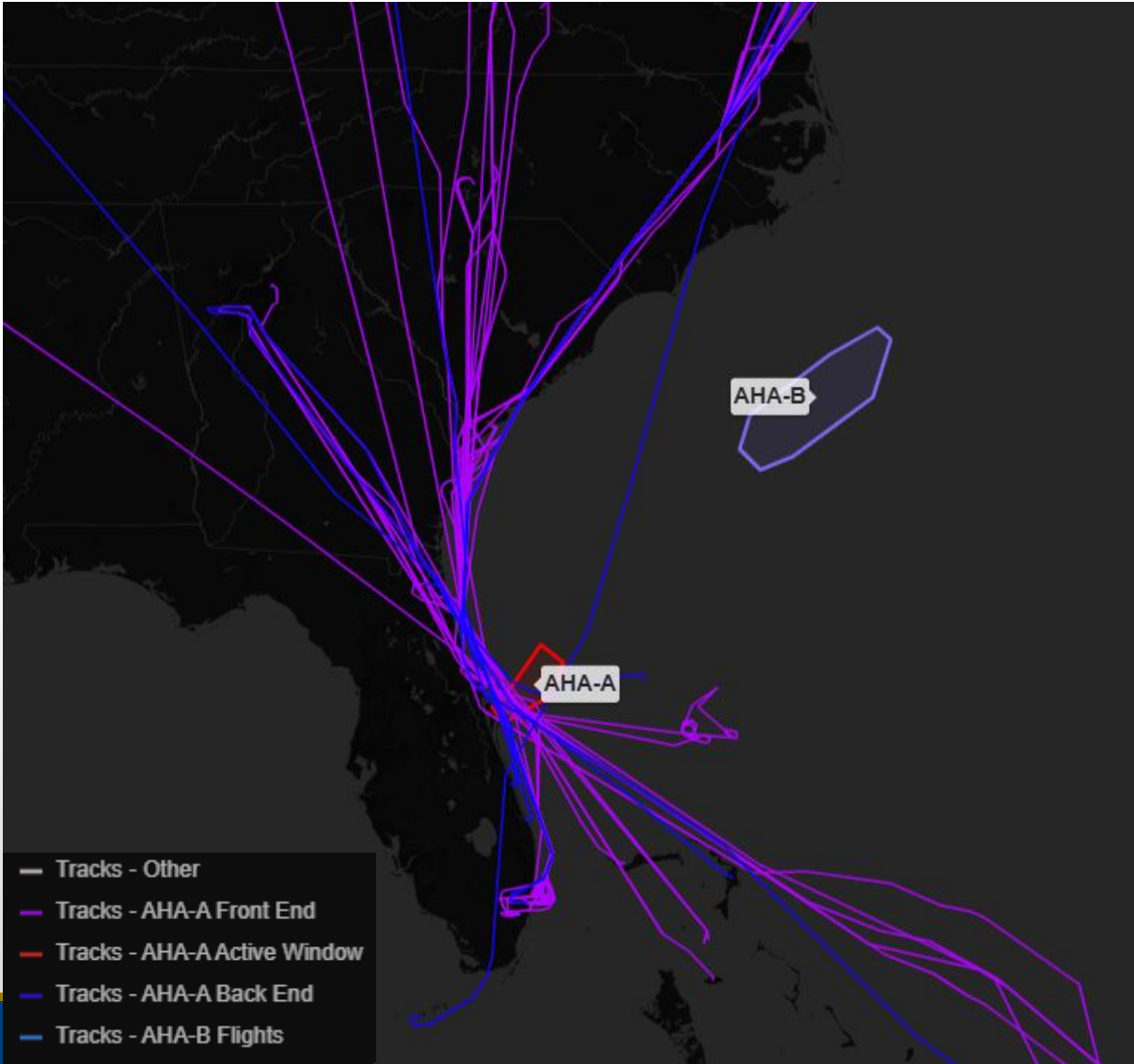
- Mission out of Cape Canaveral
  - On Wed 10/29/2025
  - T-0 at 16:36z (11:36 EST)

| Hazard Area | Sched Start | Actual Start | Actual End | Sched End | Window Duration |
|-------------|-------------|--------------|------------|-----------|-----------------|
| AHA-A       | 12:52       | 16:00        | 16:39      | 17:34     | 188/39/55 (282) |
| AHA-B       | 12:52       | 16:00        | 17:18      | 17:34     | 188/78/16 (282) |

| Hazard Area | FE Flts | AW Flts | BE Flts | FE Baseline | AW Baseline | BE Baseline |
|-------------|---------|---------|---------|-------------|-------------|-------------|
| AHA-A       | 44      | 0       | 10      | 46.3        | 12.8        | 14.6        |
| AHA-B       | 0       | 0       | 0       | 0.8         | 0.8         | 0.4         |



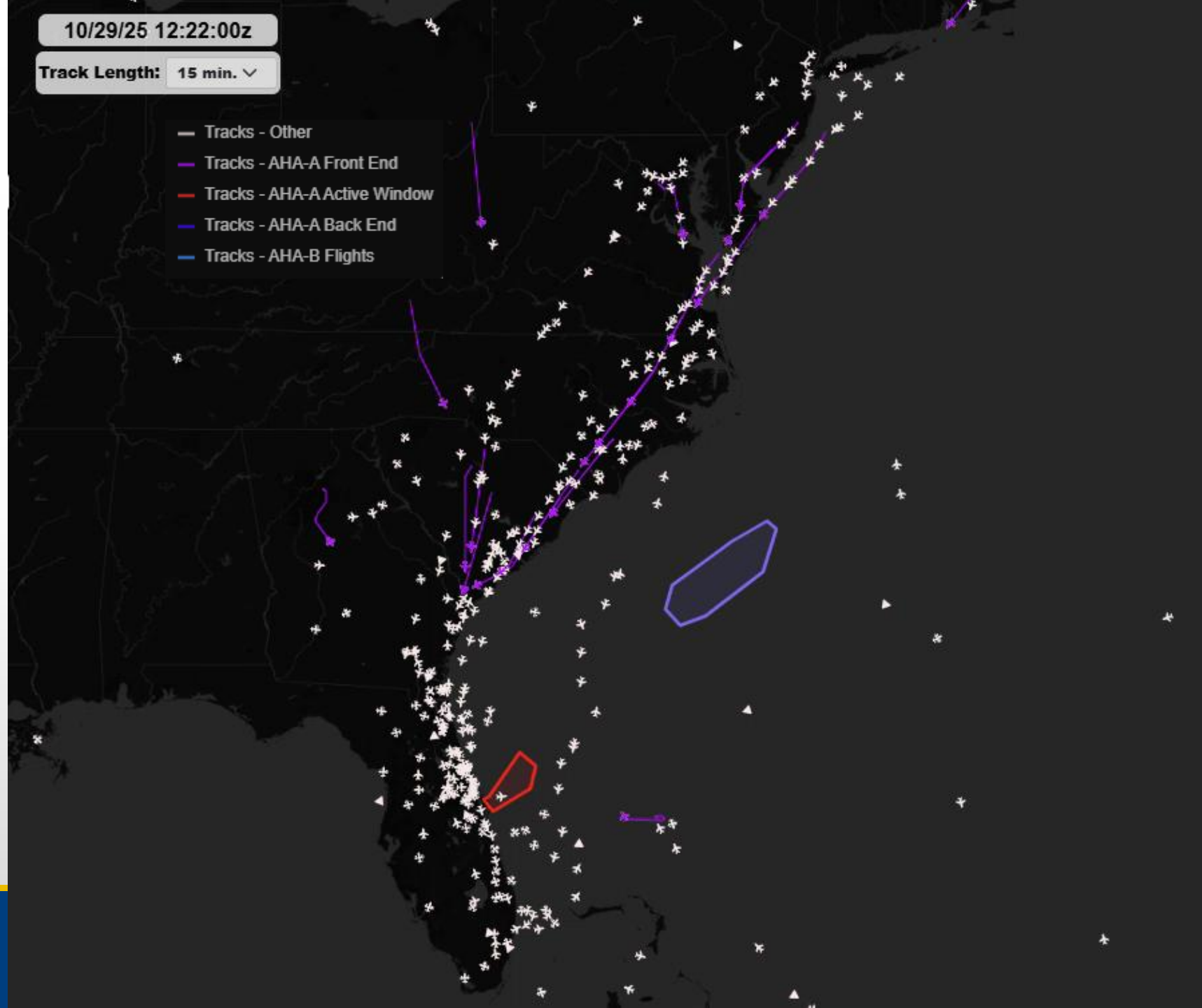
# Flight Tracks



**Time Range Shown:**

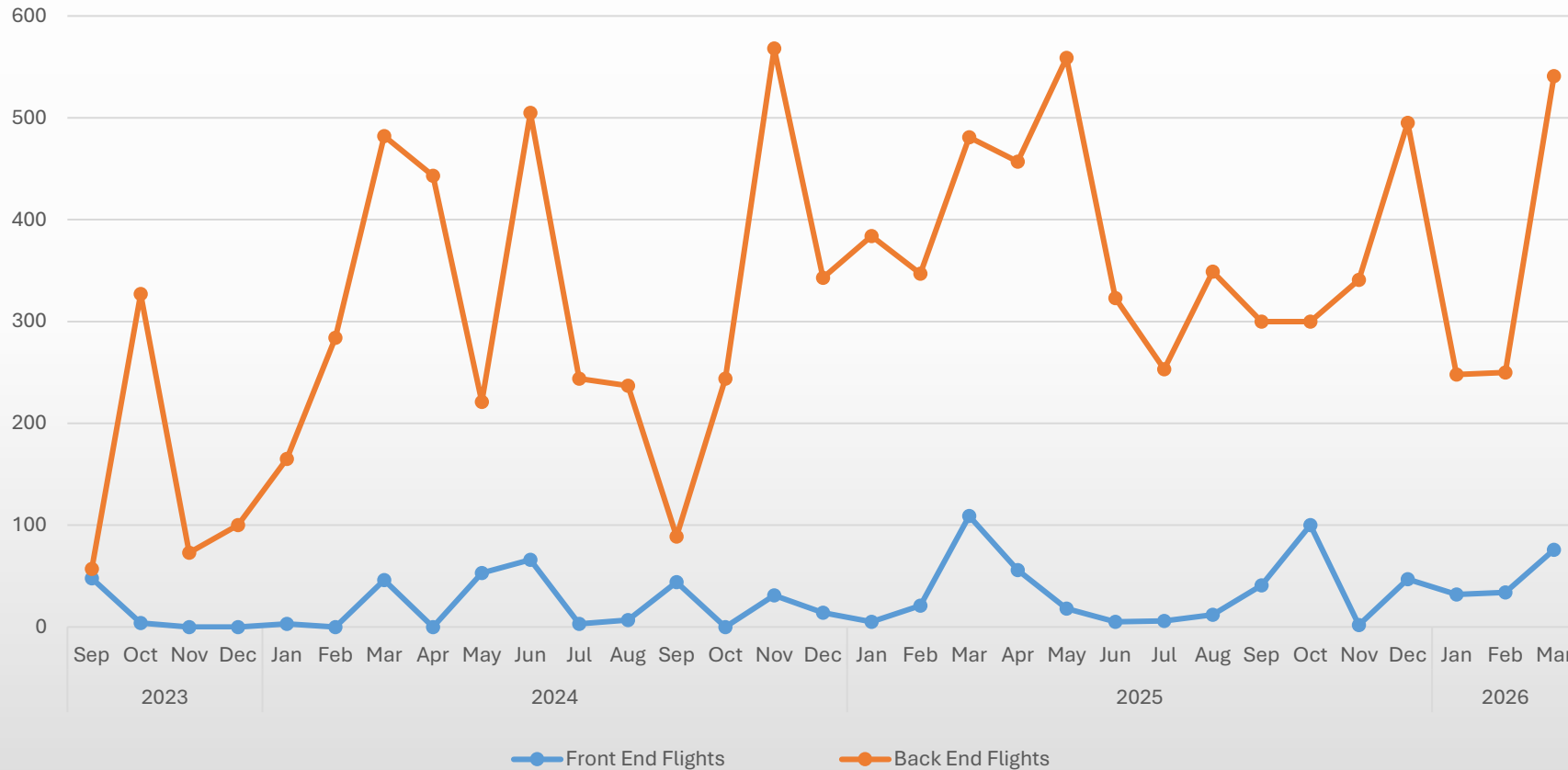
1222z - 1734z

- *Schedule Window: 1252z – 1734z*
- *AHA-A Actual Window 1600z – 1639z*
- *AHA-B Actual Window 1600z – 1718z*
- *T0: 1636z*
  
- *Front End “Last Exit”: 1551z*
- *Back End “First Entry”: 1649z*



# Flights Using Tactical Release

Flights Using Tactical Release (CCSFS & VBG)



- Front End Tactical use has been relatively low
- Majority of Tactical use happened during the Back End window

| Monthly Average | Front End | Back End   | Total      |
|-----------------|-----------|------------|------------|
| CCSFS           | 16        | 276        | 292        |
| VBG             | 13        | 47         | 60         |
| <b>Combined</b> | <b>29</b> | <b>323</b> | <b>352</b> |



# Tactical Release Usage Stats (9/2023 -3/2026)

|                    | Front End    |                |                  |            | Back End     |                |                  |            |
|--------------------|--------------|----------------|------------------|------------|--------------|----------------|------------------|------------|
|                    | Hrs Released | Actual Flights | Baseline Flights | Usage (%)  | Hrs Released | Actual Flights | Baseline Flights | Usage (%)  |
| <b>CCSFS</b>       |              |                |                  |            |              |                |                  |            |
| AHA-A              | 196          | 388            | 3022             | 13%        | 728          | 7119           | 9318             | 76%        |
| AHA-B              | 178          | 111            | 806              | 14%        | 624          | 1245           | 2901             | 43%        |
| AHA-C              | 1            | 0              | 2                | 0%         | 46           | 142            | 373              | 38%        |
| AHA-D              | 0            | 0              | 0                | --         | 27           | 40             | 185              | 22%        |
| AHA-E              | 0            | 0              | 0                | --         | 10           | 4              | 31               | 13%        |
| AHA-F              | 0            | 0              | 0                | --         | 10           | 2              | 4                | 47%        |
| AHA-REENTRY        | 0            | 0              | 0                | --         | 7            | 0              | 0                | --         |
| <b>CCSFS Total</b> | <b>375</b>   | <b>499</b>     | <b>3830</b>      | <b>13%</b> | <b>1453</b>  | <b>8552</b>    | <b>12811</b>     | <b>67%</b> |
| <b>VBG</b>         |              |                |                  |            |              |                |                  |            |
| AHA-A              | 111          | 370            | 725              | 51%        | 448          | 1393           | 2238             | 62%        |
| AHA-B              | 51           | 14             | 6                | 249%       | 190          | 34             | 57               | 60%        |
| AHA-C              | 1            | 0              | 0.4              | 0%         | 65           | 5              | 23               | 22%        |
| AHA-D              | 0            | 0              | 0                | --         | 44           | 4              | 12               | 35%        |
| AHA-E              | 0            | 0              | 0                | --         | 17           | 0              | 2                | 0%         |
| AHA-MMFR           | 0            | 0              | 0                | --         | 240          | 5              | 5                | 100%       |
| AHA-MMFR1          | 0            | 0              | 0                | --         | 26           | 1              | 1                | 100%       |
| AHA-MMFR2          | 0            | 0              | 0                | --         | 25           | 0              | 1                | 0%         |
| AHA-REENTRY        | 1            | 0              | 0                | 0%         | 99           | 11             | 38               | 29%        |
| <b>VBG Total</b>   | <b>164</b>   | <b>384</b>     | <b>731</b>       | <b>53%</b> | <b>1154</b>  | <b>1453</b>    | <b>2374</b>      | <b>61%</b> |
| <b>Grand Total</b> | <b>538</b>   | <b>883</b>     | <b>4561</b>      | <b>19%</b> | <b>2607</b>  | <b>10005</b>   | <b>15185</b>     | <b>66%</b> |

- Flights using the Front End Release was 19% of the Baseline
- Flights using the Back End Release was 66% of the Baseline
- Overall, flights using either Front End or Back End release window was **55% of Baseline traffic**

\* Baseline: Avg flights during release window for the prior 8 weeks



# 14 CFR Part 417 to Part 450 Transition



# Upcoming Space CDM Meetings

| Meeting                               | Date                           | Location             |
|---------------------------------------|--------------------------------|----------------------|
| ESC Meeting                           | June 10, 2:00 pm               | Virtual              |
| SpOC XV: Observe Aviation CDM Meeting | September 9: 9:00 am – noon    | Virtual              |
| ESC: Joint Space-Aviation CDM Meeting | September 9: 1:00 pm – 4:00 pm | In person – New York |
| ESC Meeting                           | December 8, 2026               | Virtual              |
| SpOC XVI                              | December 10, 2026              | Virtual              |
| ESC Meeting                           | March 2, 2027                  | In Person            |
| SpOC XVII                             | March 3, 2027                  | In Person            |
| ESC Meeting                           | June 2, 2027                   | Virtual              |
| SpOC XVIII                            | June 3, 2027                   | Virtual              |

