

SWAP 2024

SWAP Strategic and Tactical Plan

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CDM/NCF

4/9/2024



2024 ZNY SWAP Focus Items

- Enhanced communication
- Increase collaboration with partner facilities and stakeholders
- Data driven decisions
- Utilize diverse departure fixes out of NY
- Utilize low altitude escape routes
- Use underutilized airspace and playbooks
- Collaborate with ZNY CWSU for real time weather data
- Increase focus on route closings and reopening



Strategic and Tactical Focus for 2024

Mission: Identify and manage constraints that diminish efficiency and resiliency.

- **Day Prior - Leverage available information**
 - Preplanning with CWSU and District facilities (Morning TELCON)
 - Checklist use / Identify constraints and mitigations (out Prior to 1430 EST PT)
 - OM/STMC/TMUCIC engagement on PT/SPT
 - Adjust as new information received / situation evolves
- **Day of Event - Timeline for action**
 - Participate “Regional Conference” Morning TELCON
 - Identify Non-weather-related constraints
 - Identify changes in strategy, if needed
 - Leverage CWSU forecasting directly to operations
 - Get SWAP Statement out ASAP
 - Continuously evaluate / Communicate CHANGES
 - Protect the most vulnerable times and airports
 - Terminate TMI’s as soon as practical.

NE Departure Delay Mitigation TELCON Checklist / SPT Prep
Attendees:
DCC _____ ZNY _____ ZBW _____ ZOB _____ ZDC _____
N90 _____ PCT _____ PHL _____ NWS _____

1. NWS briefing on forecast and possible impacts
2. DCC outlook: Possible low altitude escape route (SERMN, GREKis)
 - a. AFP outlook
 - b. Holding Advisory(s)
 - c. Possible offload routes through ZBW
 - d. Check/verify the availability of CAN Routes
 - e. GDPs/GS currently in place and expected
 - f. Deepwater options
 - g. Discuss triggers for possible TMIs
 - i. Discuss Permeability through ZDC and ZOB, if necessary
 - ii. Staffing
3. Check in with ZNY and N90 for possible concerns with Forecast and the outlook for NY Metro airports
 - a. Are SWAP statements issued for ZNY/ ZDC / ZBW
 - b. International SWAP Statements
4. PHL Outlook
 - a. Plan for PHLERS, DQO routes if MXE and PTW are expected to be impacted
5. PCT Outlook
 - a. DCA Throughput
 - b. IAD International Departures
 - c. Possible LIMBO routes or departure routes

Sample Only

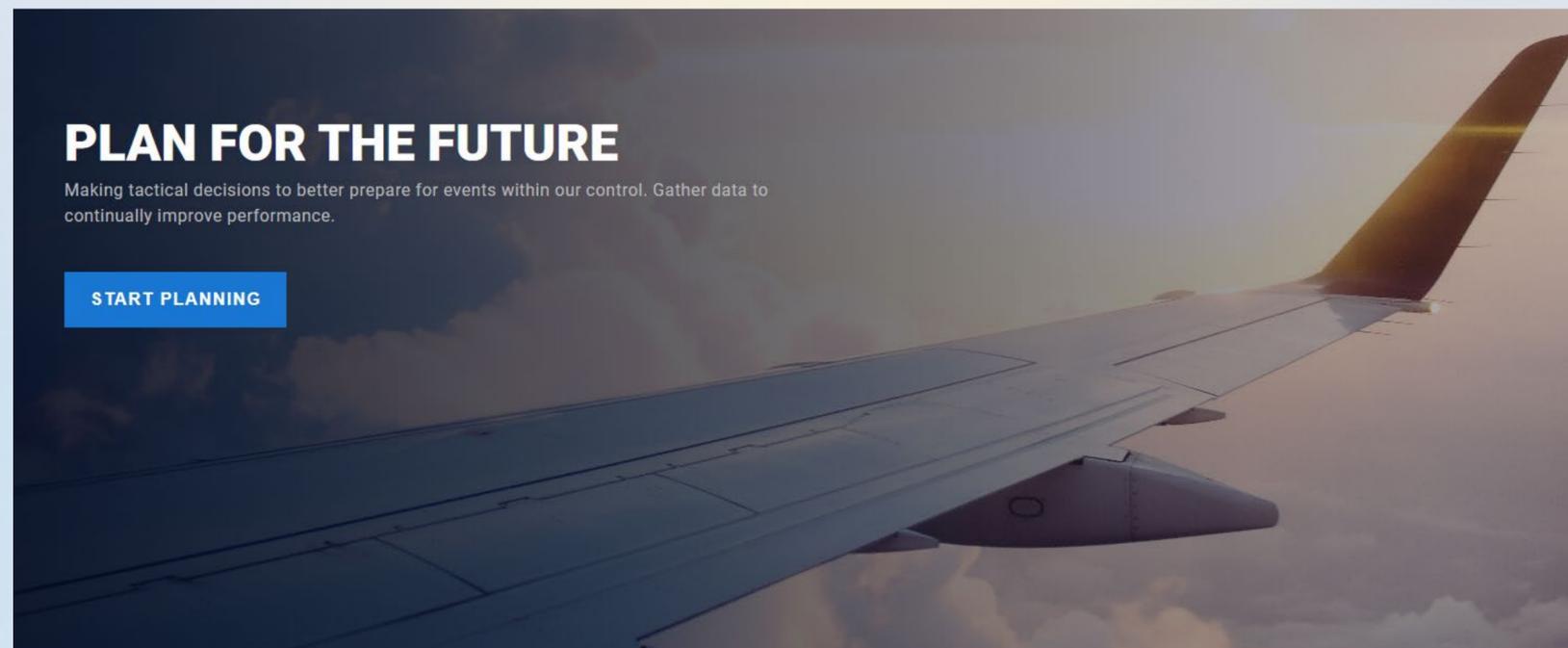
The screenshot shows the National Airspace System Status website. The header includes the Federal Aviation Administration logo and navigation tabs for Advisories, Airport Demand, EDCT, NOTAMS, Reroutes, Restrictions, RVR, and Weather. The main content area is titled "Active Airport Events" and lists two events:

- LAS**: Airport Closure from 13:1:00 PM EST to 13:3:00 PM EDT. Closed to NON SKED TRANSIENT GA ACFT EXC PPR 702-261-7775. Ground Delay from 12:11:22 AM EDT to 12:3:59 PM EDT. Avg. delay 56 mins. due to wind.
- SFO**: Ground Delay from 12:1:00 PM EDT to 13:1:59 AM EDT. Avg. delay 25 mins. due to runway construction. Departure Delay from 12:02 PM EDT. Avg. delay 15 mins. (and increasing) due to wx/wind.

Below the active events, it shows "Active En Route Events" with "No active en route events." and "Forecast Events" with "No planned terminal and en route events."

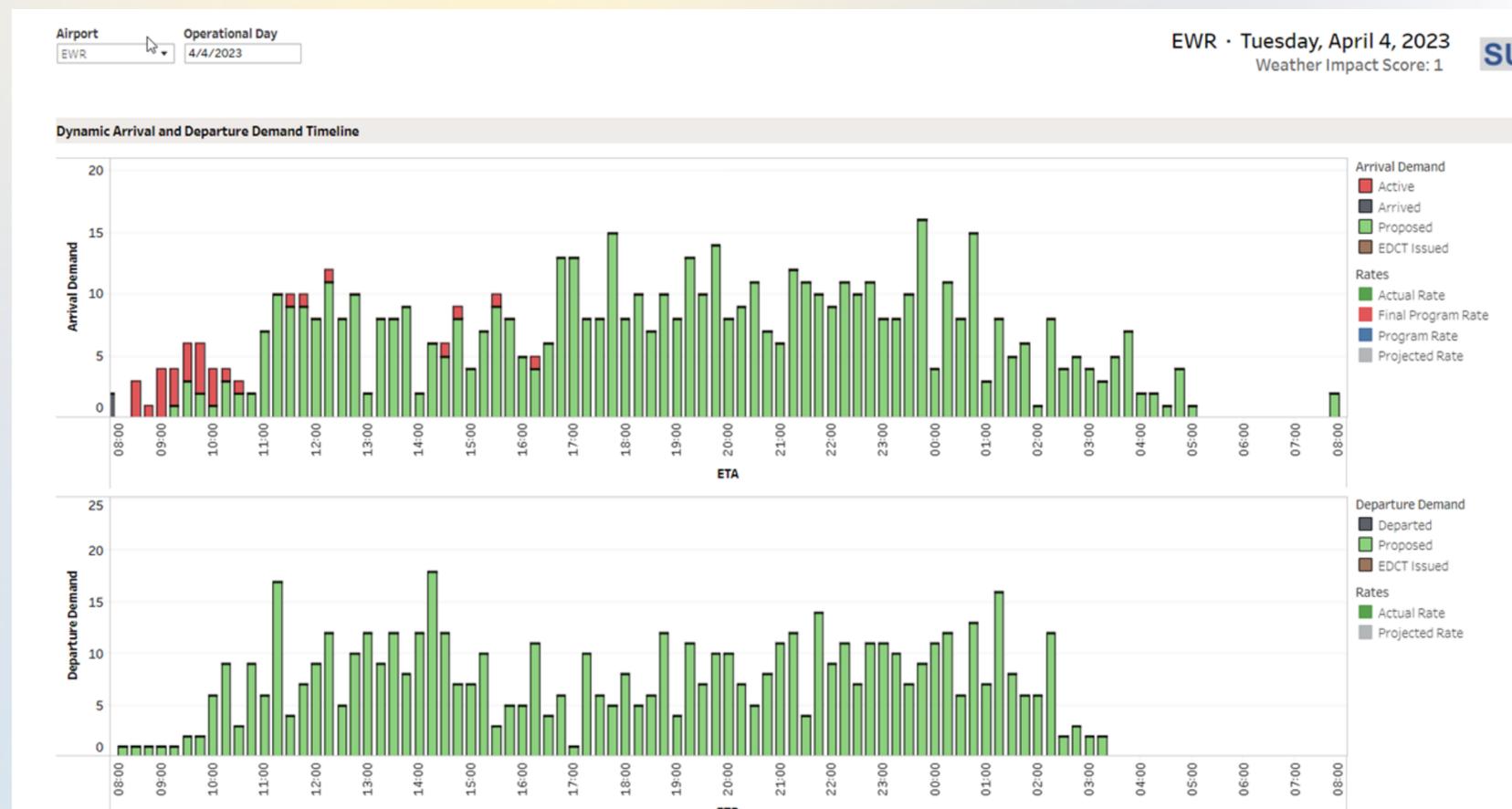
Planning- PERTI Call (Day Prior)

- Cover playbooks (full/partial) to be used.
 - Advisories for next day may/should be considered/implemented at this time.
- Advise operators - prioritize weather routes - expediting re-routes through dispatch.
 - Plan (fuel) for weather related routing.



Strategic and Tactical Focus for 2024

- **After event – Recovery**
 - Implementing Diversion Recovery
 - Goal – diverted flights given priority / no undue delays
 - TENY Recovery Webinar (internal)
 - Implemented as needed during SWAP when weather clearance is predicted.
 - Recovery call to stakeholders as needed.



CWSU UPDATES / CHANGES 2024

[NY TRACON Weather - Strategic Planning Aid \(SPA\)](https://www.weather.gov/zny/n90)

<https://www.weather.gov/zny/n90>

VISUAL 0730

PM SWAP STATEMENT

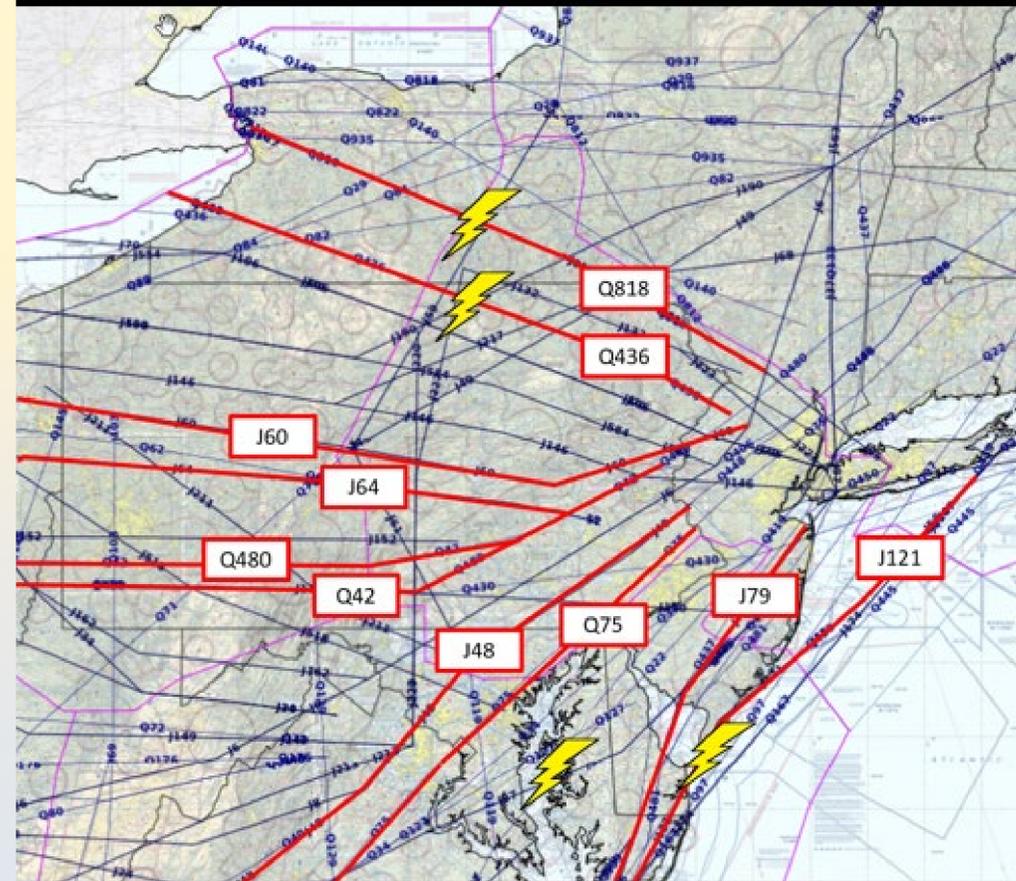
WX WEBSITE UPDATES

RECOVERY BRIEF

* ZNY GRAPHICAL SWAP STATEMENT *

Forecast Updated: March 6, 2024 – 1400z
Next Update: March 6, 2024 – 1630z

Valid Time Period:
March 6, 2024 – 1600z-2000z



| JET ROUTE | 16z-18z | 18z-20z |
|-----------|---------|---------|
| Q818/Q436 | Yellow | Red |
| J64/J60 | Green | Green |
| Q42/Q480 | Green | Green |
| J6 | Green | Green |
| J48/J75 | Yellow | Red |
| J79/J121 | Yellow | Red |

ROUTE IMPACTS

- NONE
- DEVIATIONS
- CLOSURE

...SWAP IS POSSIBLE...

SW-NE AREA OF SCT TS MV SEWD THRU LAKE ERIE AND WRN NY PSBLY IMPACT Q818/Q436...BUT WKNNG BEFORE REACHING NW ZNY. CLUSTERS OF HIGH TOP TS IN NORTH CAROLINA IMPACTING WHITE/WAVEY AND PSBLY J48/J75.

CWSU UPDATES/CHANGES 2024

- CWSU SWAP STATEMENT ISSUED FOR Morning and Afternoon
 - Updates WX
 - Provides current CWSU forecast via Weblink



NY AIR ROUTE TRAFFIC CONTROL CENTER - SWAP STATEMENT



MORNING

TO BE ISSUED BY 14Z

WEDNESDAY, FEBRUARY 28, 2024

...SWAP IS PROBABLE...

**ANYTIME AFT 15Z FOR EMBDD TS FM NRN ZNY SWD INTO ZOB/ZDC
IMPACTS PSBL ON Q818 THRU J6...IMPACTS TO J48/J75 PSBL LATER.
SHRA/RA MOV EAST OF NYC TERMINALS AROUND 03Z-05Z.**

ADDT'L INFO:

OFFSHORE (Y493/Y494/Y485/Y488): IMPACTS POSSIBLE AFT 00Z.

DITCH: IMPACTS POSSIBLE.

GREKI/EAST GATES: OCNL IMPACTS POSSIBLE.

SWAP STATEMENT AVAILABLE AT: www.weather.gov/zny/zny_swap



NY AIR ROUTE TRAFFIC CONTROL CENTER - SWAP STATEMENT



AFTERNOON

TO BE ISSUED BY 18Z

WEDNESDAY, FEBRUARY 28, 2024

...SWAP IS PROBABLE...

**ZNY IS CURRENTLY IN SWAP FOR EMBDD TS FM NRN ZNY SWD INTO
ZOB/ZDC WITH IMPACTS ON Q818 THRU J6. IMPACTS TO J48/J75 PSBL
AFTER 23Z. SHRA/RA MOV EAST OF NYC TERMINALS AROUND 03Z-05Z.**

ADDT'L INFO:

OFFSHORE (Y493/Y494/Y485/Y488): IMPACTS POSSIBLE AFT 00Z.

DITCH: IMPACTS POSSIBLE.

GREKI/EAST GATES: OCNL IMPACTS POSSIBLE.

SWAP OUTLOOK FOR TOMORROW MORNING: SWAP IS NOT EXPECTED.

SWAP STATEMENT AVAILABLE AT: www.weather.gov/zny/zny_swap

CWSU UPDATES/CHANGES 2024

Decision Support Imagery

Use this page to find the URLs for static imagery.

This page was designed for Center Weather Service Unit meteorologists who build information packages on desktop computers. To view an interactive display that has been optimized for mobile devices, [click here](#).

Select a product

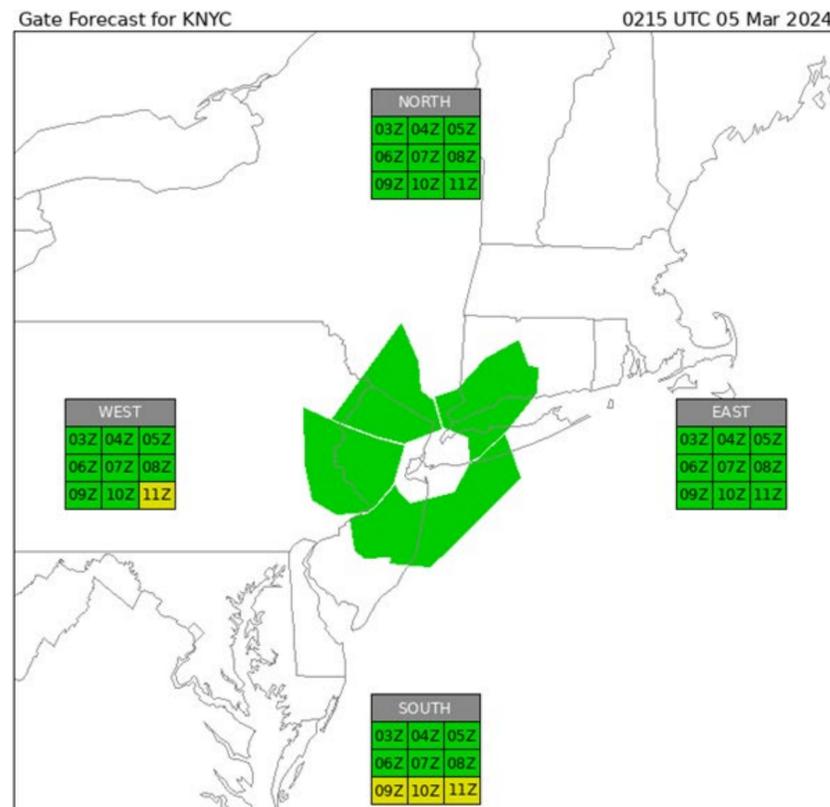
- GAIRMET
- SIGMET
- WPC prog chart
- SigWx - low level
- SigWx - mid level
- SigWx - high level
- Turbulence
- Icing
- GFA
- TFM gate forecast**
- TCF
- ETCF

Airport

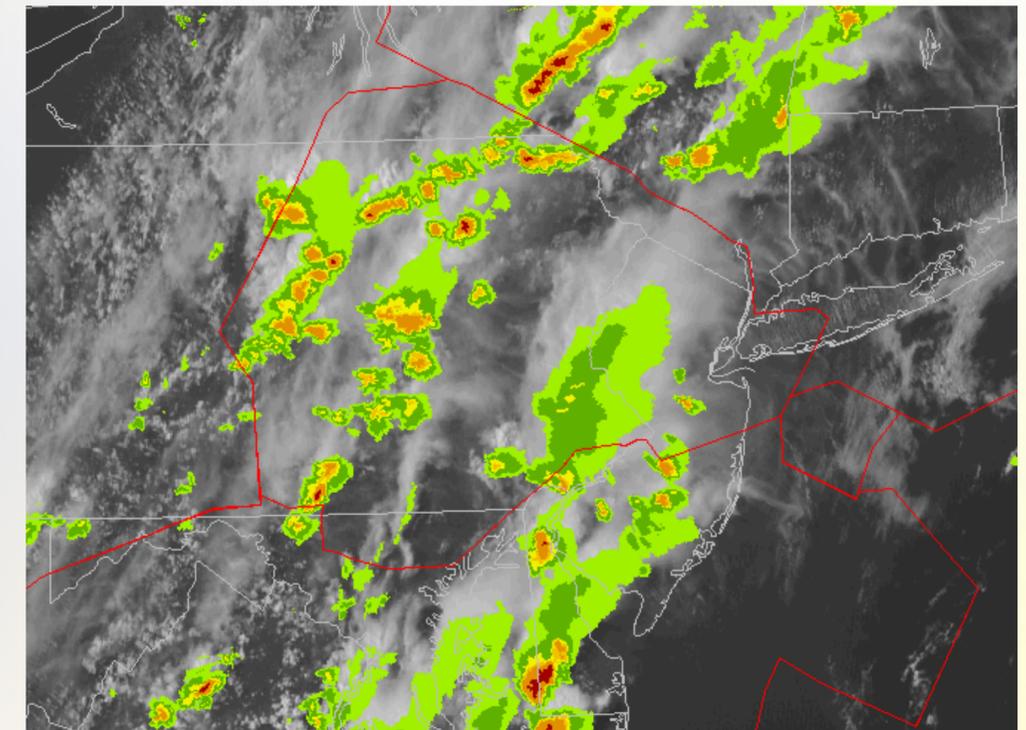
- KATL - Atlanta
- KCLT - Charlotte
- KORD - Chicago
- KDFW - Dallas/Fort Worth
- KDEN - Denver
- KDTW - Detroit
- KIAH - Houston
- KLAS - Las Vegas
- KMEM - Memphis
- KMIA - Miami
- KMSP - Minneapolis
- KNYC - New York City**
- KPHX - Phoenix
- KDCA - Potomac

Clear selections for this product

Image preview



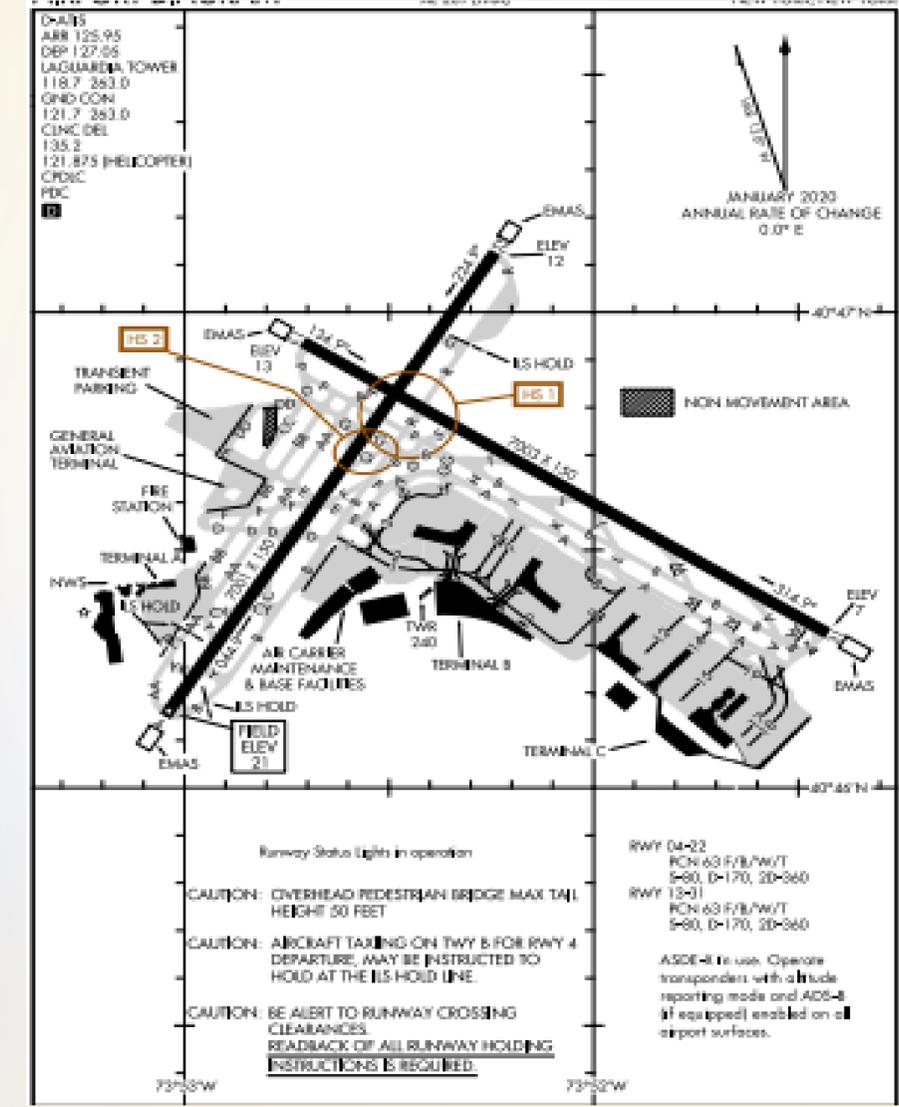
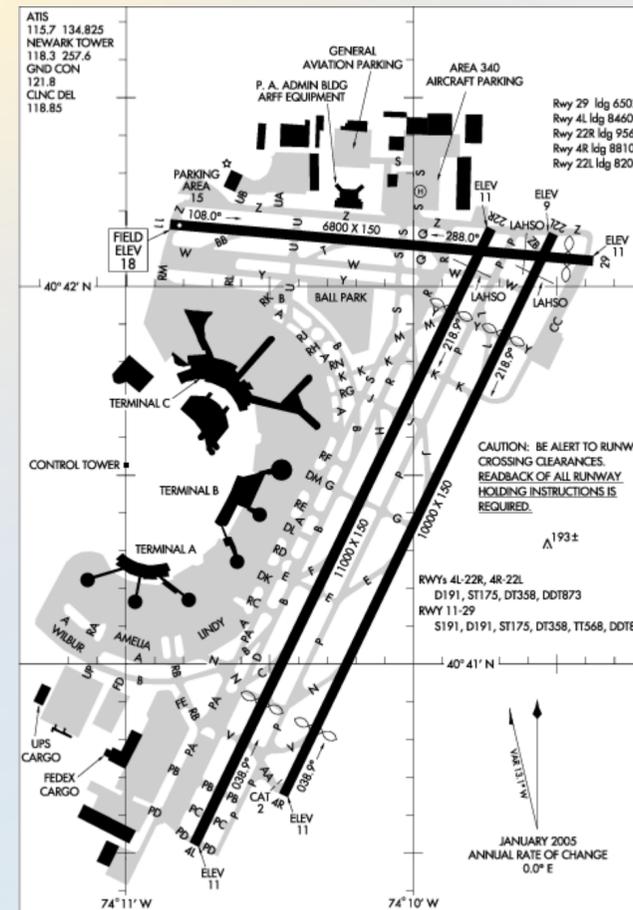
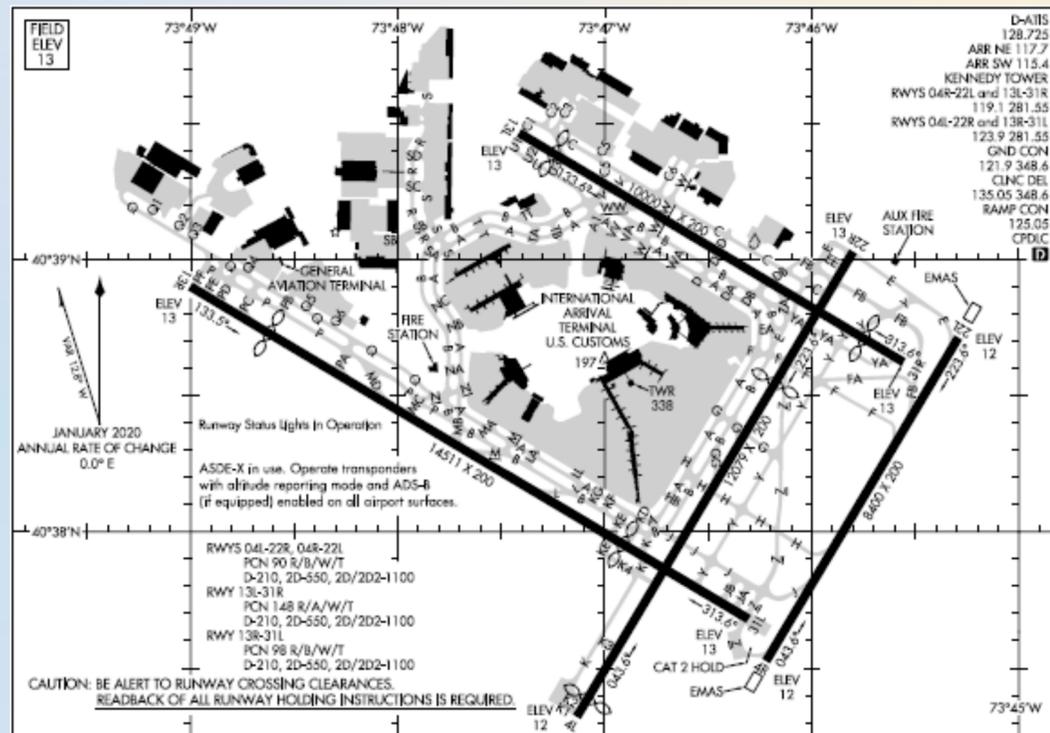
- Utilizing traditional tools such as gate forecast



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Surface Prioritization

- Identify airports with additional risks and recovery challenges.
 - Existing surface constraints, construction and international departures.

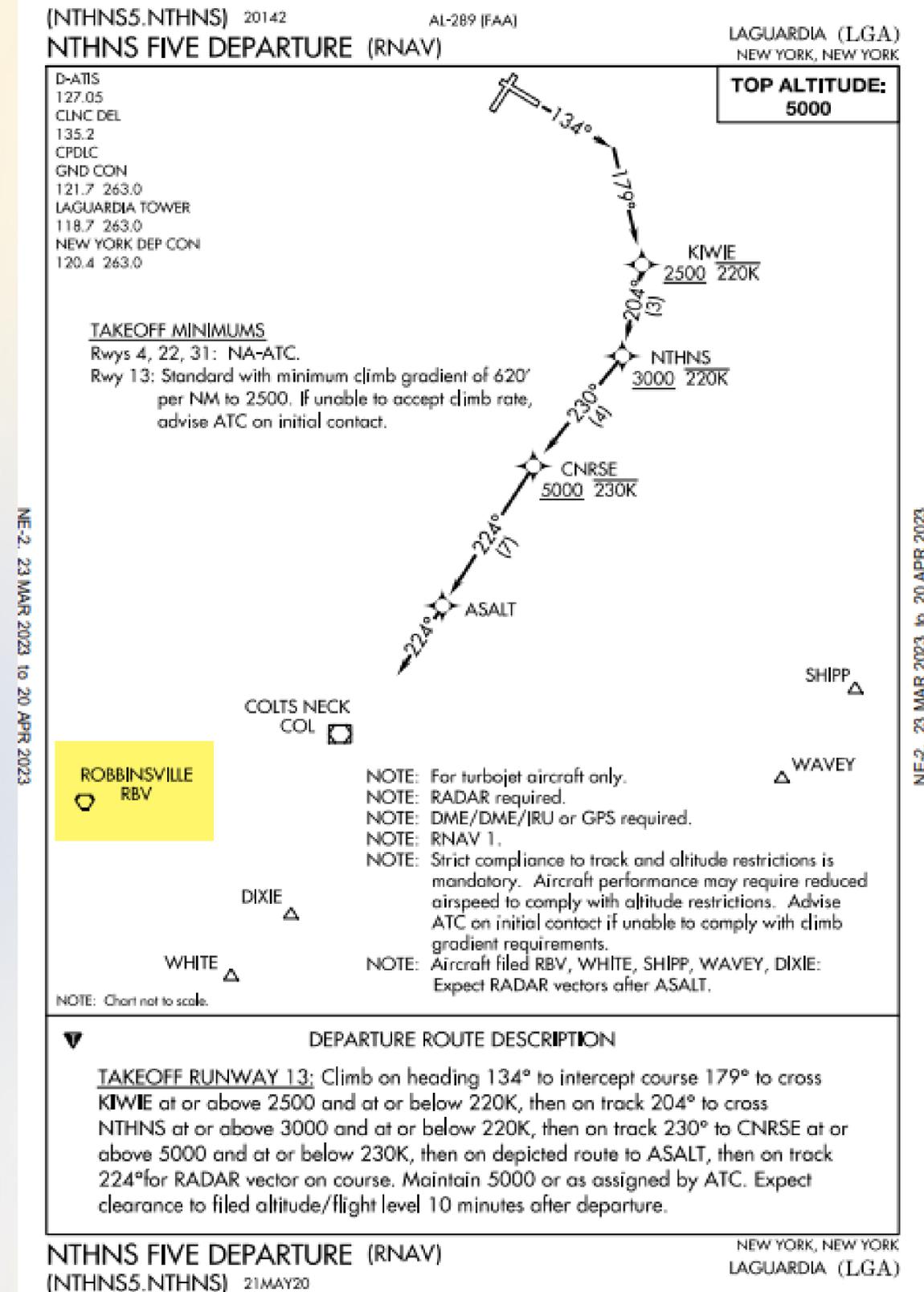
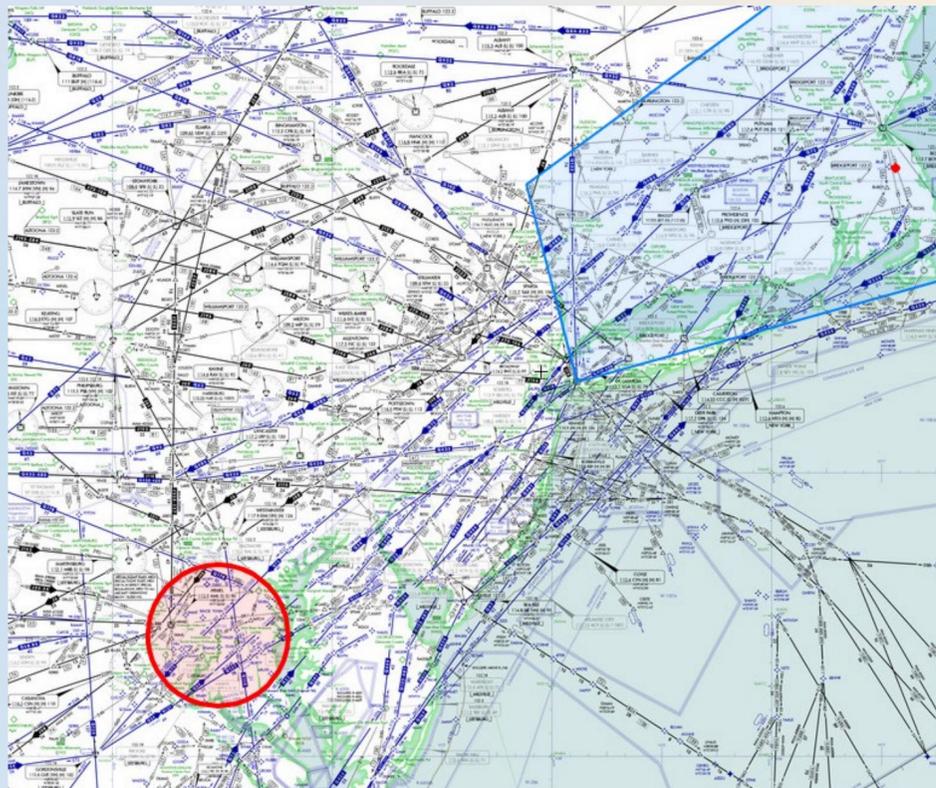


Fix Balance / Gate Swaps

Short periods as conditions allow

- WAVEY Shuffle
- Reduce WHITE
- Reduce WAVEY / RBV
- Utilize North gates to go WEST

Coordinate thru ATCSCC

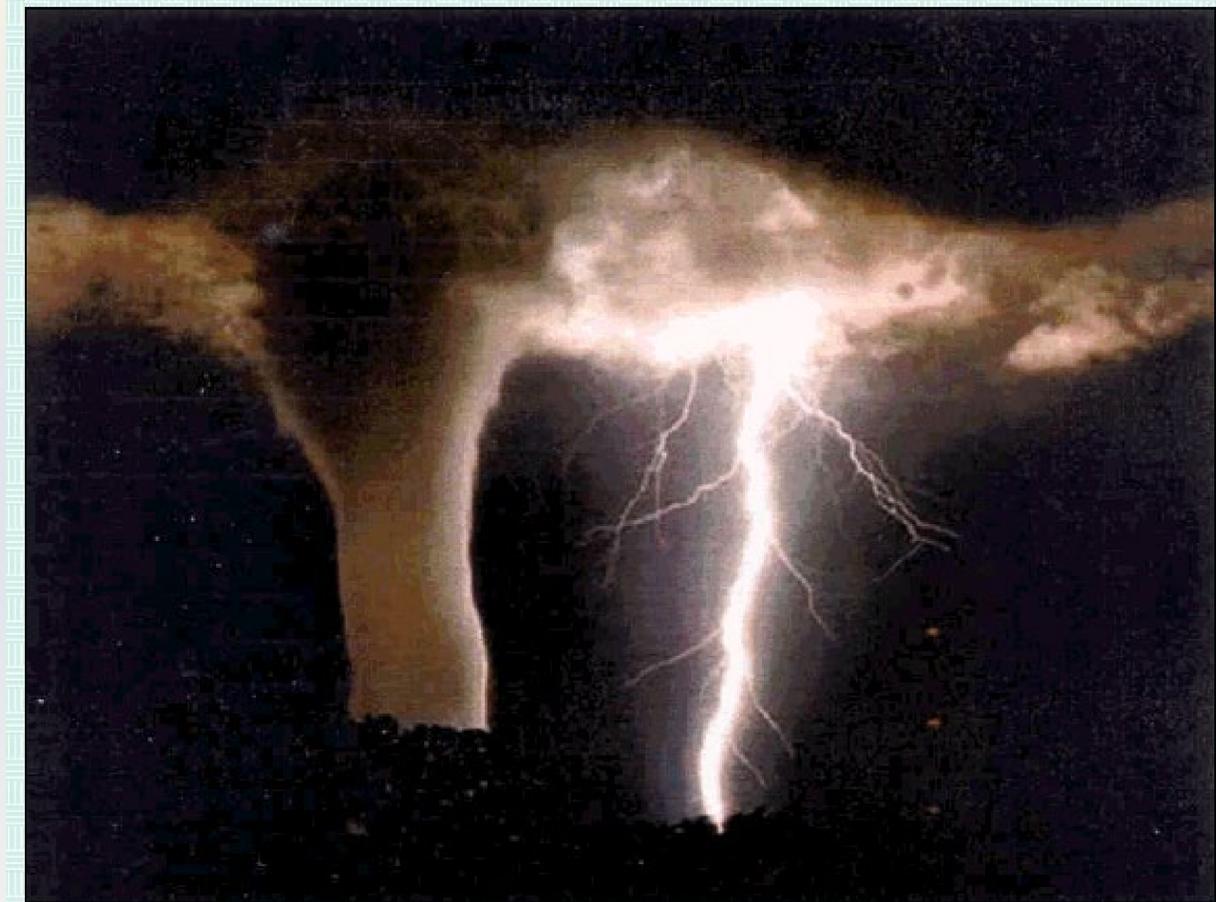


COMMON SUMMMER PLAYBOOK “PLAYS” FOR N90/PHL

- TRANSCON (CAN) ROUTES- EAST/WEST & WEST/EAST
- Regional Routes
- GREKI Escape Routes
- SERMN Escape Routes
- PHLYER Escape routes
- Duct Routes
- CAP / Tunneling

Additional Playbooks/Plays can be found in the Area Guidebooks or at <http://www.atcsc.faa.gov/PLAYBOOK/pbindex.html>

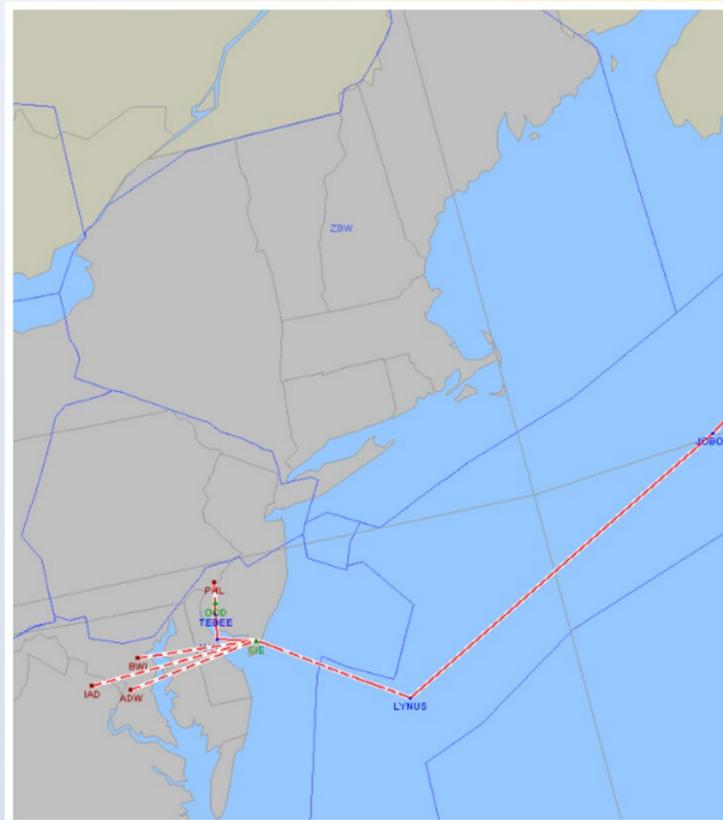
Air Traffic Control System
Command Center



National Severe Weather
Playbook

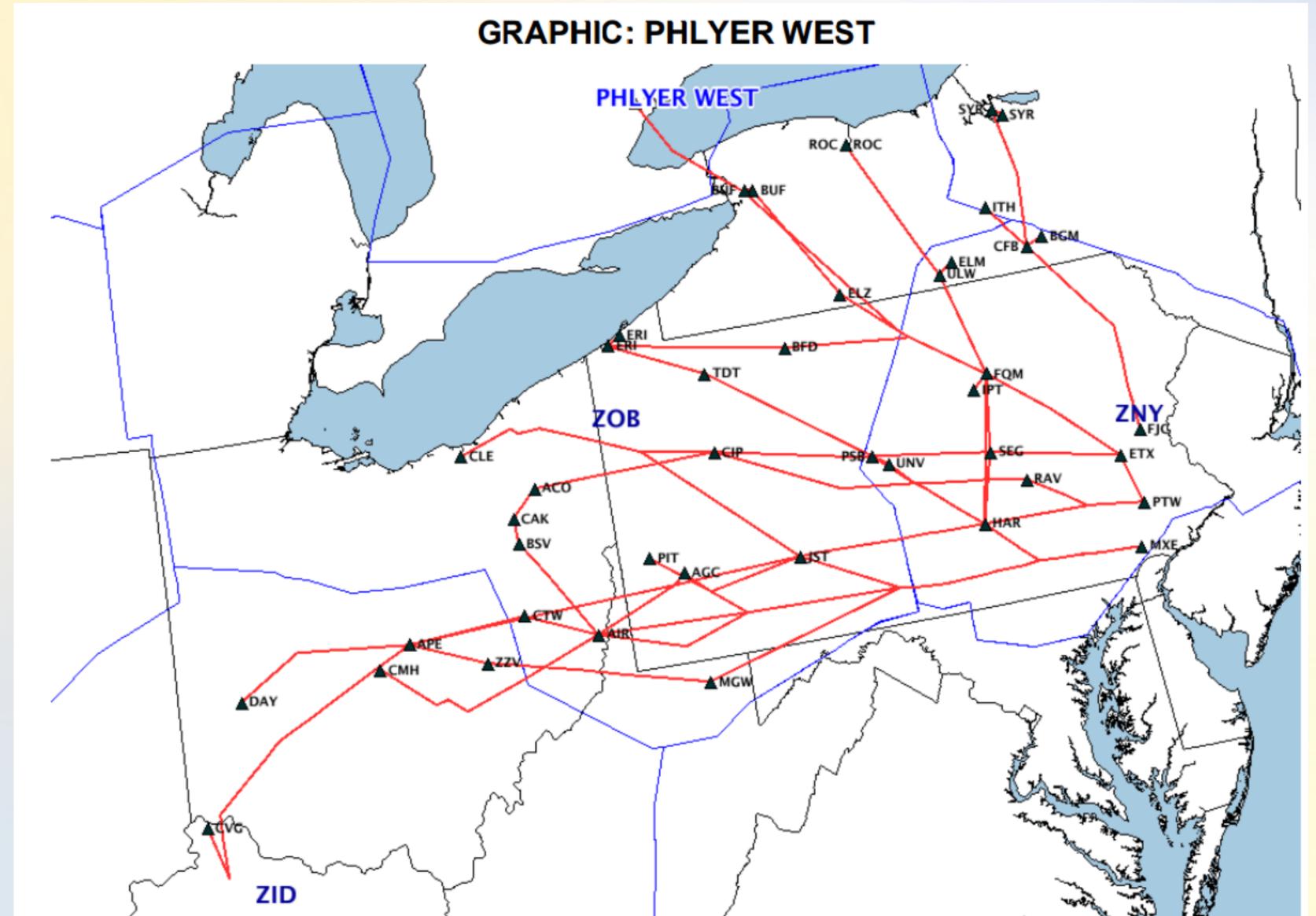
ESCAPE ROUTES

PHL ZEU Escape Playbook
published March 21, 2024



ROUTE

| Origin | Filters | Route | Destination | Remarks |
|-------------------|---------|----------------------------------------------------|-------------|---------|
| KPHL | | OOD TEBEE HAYDO SIE B24 LYNUS JOBOC NOVOK CARAC | ZEU | |
| KIAD KBWI KADW | | SIE B24 LYNUS JOBOC NOVOK CARAC | ZEU | |



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NY Low Altitude Options

Routes

| DESTINATION | ROUTING | ALTITUDE |
|-------------|---------------------------------------------------------|---------------------------|
| SYR | HAAYS.V252.CFB.V29.SYR..KSYR | 10000/CAP FL220 WHEN ABLE |
| BUF | HAAYS.V252.CFB..KBUF | 10000/CAP FL220 WHEN ABLE |
| CYYZ | HAAYS.V252.CFB..WOZEE..LINNG..CYYZ | 10000/CAP FL220 WHEN ABLE |
| ROC | HAAYS.V252.GIBBE..KROC | 10000/CAP FL220 WHEN ABLE |
| PIT | HAAYS.V252.RAGER.T216.LAAYK.T218.SFK..SLT.HAYNE7.KPIT | 10000/CAP FL220 WHEN ABLE |
| CLE | HAAYS.V252.RAGER.T216.LAAYK.T218.SFK..THOME.TRYBE4.KCLE | 10000/CAP FL220 WHEN ABLE |



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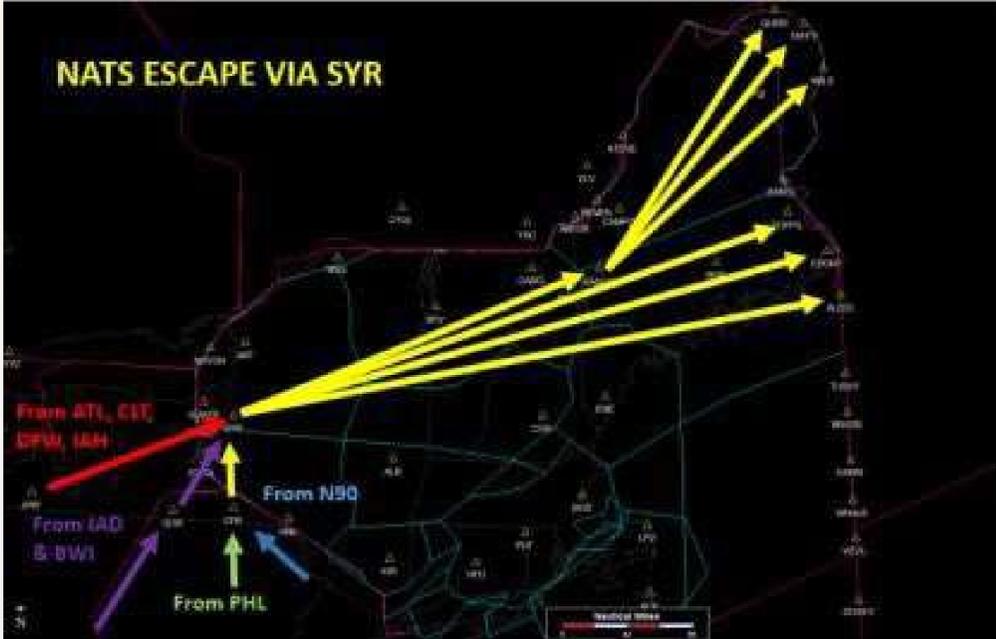
Route Closures and Openings

- Reduce re-routes based on input from meteorologist.
 - Limit effect of increasing MIT before route closes
- Project fix openings based on forecast weather by ZNY/ZDC/ZBW meteorologist
 - If weather is forecast to clear a route before the arrival time of the aircraft utilize the route.
- Use airborne inventory to re-open routes when practical.
- Consider proximity and flexibility when choosing candidates for reroutes.



International Traffic Increases Summer 2024

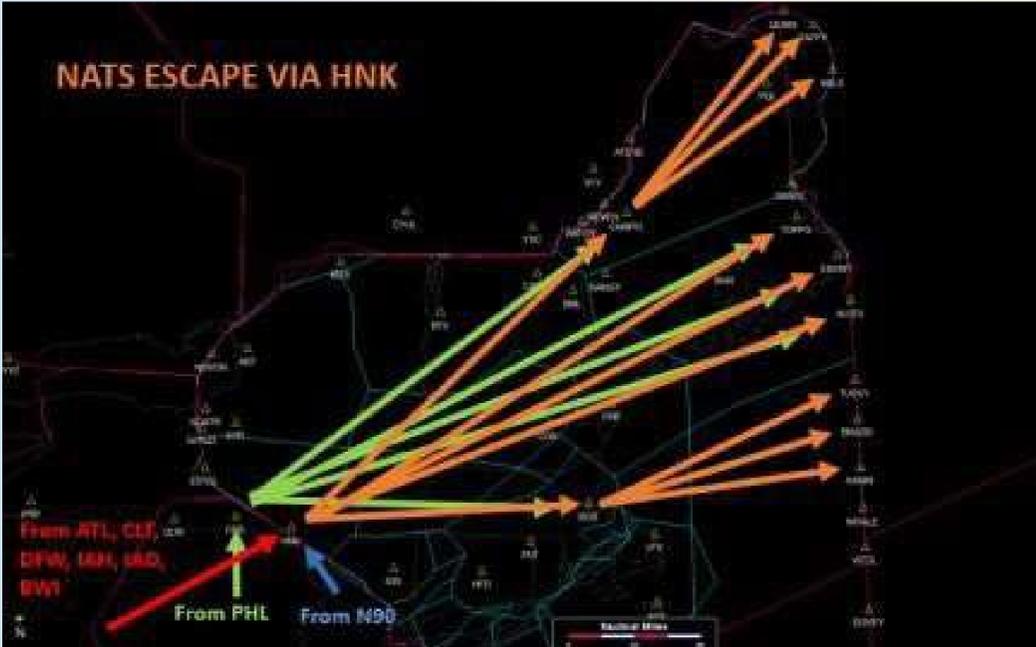
2023 saw 82% of 2019 demand
2024 projects 92% of 2019 demand



International flights are high priority

Utilize the ZBW NATOT conference to advise of impacts

Utilize the ZBW International SWAP statement



Parking Lot Items

- **TWR Route Coordination**
Implement TWR approved offload routes during peak demand/weather periods..

Collaborate and coordinate with other facilities (ATCSCC, N90, NY area towers) and stakeholders

Discontinue tower reroutes as needed

- **CDR Coordination**
Reduce communication by allowing more CDR routes without required coordination



CDM Coded Departure Routes Query Results

Effective 01/25/2024 until 03/21/2024

| # | Route Code | Orig | Dest | Dept. Fix | Route String | DEPT ARTCC | ARR ARTCC | Traversed ARTCC | Coord Req | Nav Eqp | Associated Play |
|---|------------|------|------|-----------|------------------------------------------------------------------|------------|-----------|------------------------|-----------|---------|-----------------|
| 1 | JFKPBI48 | KJFK | KPBI | RBV | KJFK RBV Q430 BYRDD J48 MOL FLASK COREX SPA ENEME VUUDU1 KPBI | ZNY | ZMA | ZDC ZJX ZMA ZNY ZTL | Y | 2 | |



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Seasonal Events



- **Copa America – 2024**

- Jun 20th – Jul 14th
- MetLife Stadium

- May will be extremely busy with events surrounding the holiday weekend.

- May 22-27 Fleet Week
- NY Yankees Flyover – May 23
- NY Mets – TBD
- May 22-26 Jones Beach Airshow
 - (Angle 7 arrives 22)
- May 25 Flyover Danbury
- May 27 Flyover New Milford, CT
- May 27 Flyover Ridgefield, CT
- May 27 Flyover East Hamdam, Ct
- Sept 23-28
 - Ryder Cup 2025 (Overlaps with UNGA High-Level General Debate will be Tuesday 23)

Macy's 4th of July Fireworks Show



- **Airshows**

May 2024 hide

| Date | Event | Location [map] |
|-----------|----------------------------------|-------------------------------------|
| 25-26 May | Bethpage Air Show at Jones Beach | Jones Beach State Park, Wantagh, NY |

June 2024 hide

| Date | Event | Location [map] |
|-----------|-------------------------|------------------------------------------|
| 14-16 Jun | Greenwood Lake Air Show | Greenwood Lake Airport, West Milford, NJ |

July 2024 hide

| Date | Event | Location [map] |
|-----------|--------------------------------------------|----------------------------------------------|
| 06-07 Jul | Greater Binghamton Air Show | Greater Binghamton Airport, Johnson City, NY |
| 13-14 Jul | National Warplane Museum - Geneseo Airshow | Geneseo Airport, Geneseo, NY |

August 2024 hide

| Date | Event | Location [map] |
|-----------------|----------------------------------|------------------------------------------------|
| 03-04 Aug | Rochester International Air Show | Greater Rochester Int'l Airport, Rochester, NY |
| 10-11 Aug | New York Air Show | Orange County Airport, Montgomery, NY |
| 31 Aug / 01 Sep | Wings Over Batavia Air Show | Genesee County Airport, Batavia, NY |

September 2024 hide

| Date | Event | Location [map] |
|-----------------|-----------------------------|-------------------------------------|
| 31 Aug / 01 Sep | Wings Over Batavia Air Show | Genesee County Airport, Batavia, NY |

QUESTIONS



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