

# Northeast Corridor Atlantic Coast Routes (NEC ACR)

## Project Status Update

**Presented to:** Aeronautical Charting Meeting

**By:** Paul Withers, FAA Co-Lead (Management)

Joey Tinsley, FAA Co-Lead (NATCA)

**Date:** October 2021



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# What We Are Doing, Why, When

NEC ACR is one of the biggest changes to the National Airspace System (NAS) in decades

- **What**: New/amended Q Routes and Y Routes will replace the north-south high-altitude route structure along the east coast of the United States
- **Why**: Transition to a PBN-Centric NAS thus decreasing reliance on ground-based NAVAIDs
- **When**: Changes being implemented from 10/10/2019 through **11/3/2022**
  - Due to COVID-19, the implementation of the majority of the remaining routes and procedures were delayed due to inability to conduct controller training



# BEFORE

Not all central and western U.S. Routes are depicted

Q-Routes depicted in green  
Y-Routes depicted in gray  
J-Routes depicted in blue



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# FUTURE STATE 11/3/2022

Not all central and western  
U.S. Routes are depicted

Q-Routes depicted in green  
Y-Routes depicted in gray  
J-Routes depicted in blue



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# Implementation Milestones

- ✓ 10/10/2019 Publish/Implement 1 New Y-Route and 8 Waypoints
- ✓ 11/7/2019 Implement ZDC Low Altitude Sector Changes
- ✓ 1/30/2020 Delete/Amend 33 J-Routes/Q-Route (FL Metroplex)
- ✓ 1/30/2020 Delete 5 CHS STARs
- ✓ 3/26/2020 Delete/Amend 6 SIDs (BWI/IAD/DCA/HEF/ADW)
- ✓ 5/21/2020 Amend 2 Q-Routes: Q75, Q475
- ✓ 5/21/2020 Amend 1 SID (DOV)
- ✓ 7/16/2020 Delete/Amend 18 J-Routes
- ✓ 9/10/2020 Publish/Amend 8 Q-Routes
- ✓ 11/5/2020 Publish/Delete/Amend 9 STARs (PHL/EWR/TEB/LGA/DOV/WRI)
- ✓ 11/5/2020 Publish/Delete/Amend 9 SIDs/STARs/SIAPs (CHS/JZI)
- ✓ 11/5/2020 Delete/Amend 10 J-Routes, 1 Q-Route
- ✓ 2/25/2021 Publish/Delete/Amend 20 RDU SIDs/STARs/SIAPs
- ✓ 10/7/2021 Publish/Delete/Amend 28 Q-Routes/Y-Routes/AR-Routes
- ✓ 10/7/2021 Amended 1 SID (ATL), 1 STAR (WRI)

COVID-19

66 Routes Published, Amended, Deleted in 2020-2021 as of 10/7/2021

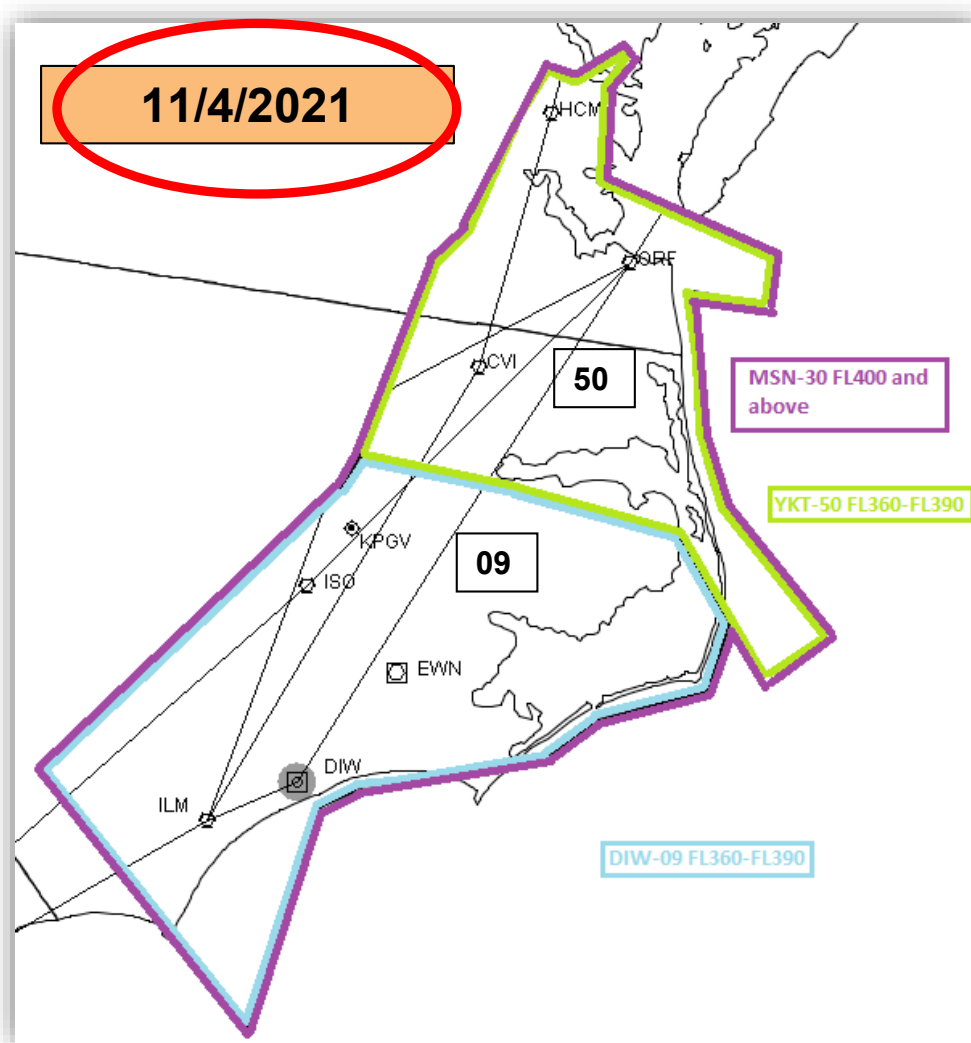


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# ZDC High Altitude Sector Changes

- **Stratify Sectors 09 & 50 to create new Sector 30**
- **Resulting 3 Sectors**
  - 09 DIW Ultra High
    - FL360-390
  - 50 YKT Ultra High
    - FL360-390
  - 30 MSN Super High
    - FL400-ABV
- **To help reduce sector workload/complexity and improve sector throughput**



# NEC ACR Changes - 2021

## ✓ 10/7/2021 (7) Q-Route Additions/Amendments

- Publish (2) New Q419, Q437
- Amend (5) Q22, Q29\*, Q34, Q54\*, Q64

## ✓ NOTAM NA Q-Routes

- 10/7/2021-12/2/2021 NOTAM NA Q22, Q34, Q419, Q437
- 10/7/2021-11/3/2022 NOTAM NA Q64 TYI./SAWED

## ✓ 10/7/2021 (20) Y-Route/AR-Route Deletions/Amendments

- Amend (9) Y289, Y291, Y299, Y307\*, Y309, Y323, Y436\*, Y438\*, Y494\*
- Amend\* (9) AR3, AR5, AR12, AR15, AR16, AR17, AR18, AR21, AR23
- Delete\* (2) AR7, AR25

## ✓ NOTAM NA Y-Routes

- 10/7/2021-9/8/2022 NOTAM NA Y291, Y309, Y319, Y323
- 10/7/2021-11/3/2022 NOTAM NA Y289, Y299

## ✓ 10/7/2021 (1) SID

- Amend ATL PHIL3 SID

- 11/4/2021 ZDC High Altitude Sector Changes (Sector 30)
- 12/2/2021 Cancel Q-Route NA NOTAMs: Implement Q419, Q22, Q437, Q34
- 12/2/2021 (6) J-Route Deletions/Amendments
  - Delete (4) J150, J193, J222, J225
  - Amend (2) J42, J191 (Delete HPW-RBV Only)

\*Note: All changes to Q29, Q54, Y307, Y436, Y438, Y494, and the AR-Routes will be implemented when published on 10/7/2021.

All 2021 Dates Subject to Change Due to COVID-19



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# Safety Alerts and Charting NOTAMs

- Safety Alert: NASR 21-15 SA
  - Q29 should have “GNSS REQUIRED” in the last two segments:
    - CABCI..EBONY and EBONY..DUNOM

Designation	Point Seq	Nav Fac Fix Name (AWY2)	Remarks Text
Q29	170	CABCI	
Q29	170		GNSS REQUIRED
Q29	180	EBONY	
Q29	180		GNSS REQUIRED
Q29	190	DUNOM	
Q29	200	U.S. CANADIAN BORDER	

- NOTAMs (details on next 2 pages):
  - Enroute High Chart H-08
  - Enroute High Chart H-09



# NOTAM: H-08, FDC 1/7555

- 1/7555 for H8
- !FDC 1/7555 FDC CHART CORRECT U.S. GOVERNMENT IFR
- ENROUTE HIGH ALTITUDE
- CHART H-8, J, EFFECTIVE 04 NOV 2021...
- EFFECTIVE 07 OCT 2021
- Y350 MISSING ROUTE SEGMENT BETWEEN WAYPOINT CILEX (BEARING148),
- WAYPOINT KNSLY (BEARING 330 ) DISTANCE 224, MAA-60000, WHICH OFF
- THIS CHART AND SHOULD BE DEPICTED AS EDGE TYPE.
- EFFECTIVE 07 OCT 2021
- Y353 MISSING ROUTE SEGMENT BETWEEN WAYPOINT KNSLY (BEARING 333) TO
- WAYPOINT SUMAC (BEARING 150) MAA-60000 DISTANCE 329 TO, WHICH OFF
- THIS CHART AND SHOULD BE DEPICTED AS EDGE TYPE
- EFFECTIVE 07 OCT 2021
- Y398 MISSING ROUTE BETWEEN WAYPOINT JAGOR (BEARING 142) TO WAYPOINT
- KNSLY (BEARING 325), DISTANCE 316, MAA-60000 TO, WHICH IS OFF THIS
- CHART.. 2110041451-PERM



# NOTAM: H-09, FDC 1/7568

- 1/7885 for H-9
- !FDC 1/7885 FDC CHART CORRECT U.S. GOVERNMENT IFR
- ENROUTE HIGH ALTITUDE
- CHART H-9, PANEL C, EFFECTIVE 09 SEP 2021...
- EFFECTIVE 07 OCT
- Y438 IS MISSING FROM BAHAA (BEARING 100) TO SNABS (BEARING 279)
- WITH A DISTANCE OF 25 AND MAA-60000
- Y438 IS MISSING FROM SNABS (BEARING 099) TO OZENA (BEARING 279)
- WITH A DISTANCE OF 9 AND MAA-60000
- Y438 IS MISSING FROM OZENA (BEARING 100) TO OHLAA (BEARING 280)
- WITH A DISTANCE OF 13 AND MAA-60000
- Y438 IS MISSING FROM OHLAA (BEARING 100) TO CARPX (BEARING 280)
- WITH A DISTANCE OF 18 AND MAA-60000
- Y438 IS MISSING FROM CARPX (BEARING 101) TO TROUT (BEARING 282)
- WITH A DISTANCE OF 39 AND MAA-60000. 2110042056-PERM



# Q-Route NA NOTAMs

Effective 10/7/2021-12/2/2021

Effective 10/7/2021-12/2/2021

- Q22, BEARI, VA TO FOXWD, CT NA
- Q34, SWAAP, TN TO ROBBINSVILLE, NJ (RBV) VORTAC NA
- Q419, BROSS, MD TO DEER PARK, NY (DPK) VOR/DME NA
- Q437, VILLS, NJ TO SLANG, VT NA

Effective 10/7/2021-11/3/2022

- Q64, TAR RIVER, NC (TYI) VORTAC TO SAWED, VA NA



# ZJX Q-Route/Y-Route NOTAMs

- **Y-Routes**: Existing “ATC ASSIGNED ONLY” NOTAMs for the following Florida Y-Routes will be cancelled on 10/7/2021 and **reissued** to be effective through **11/3/2022**:
  - Y289, Y299
- **Q/Y-Routes**: Existing “ATC ASSIGNED ONLY” NOTAMs for the following Florida Q/Y-Routes will be cancelled on 10/7/2021 and **reissued** to be effective through **9/8/2022**:
  - Q85, Q87, Q97, Q109, Q113, Q135, Q409
  - Y291, Y309, Y319, Y323
- **Q/Y-Routes**: Existing “ATC ASSIGNED ONLY” NOTAMs for the following Florida Q/Y-Routes will be cancelled on **9/8/2022** and **reissued** to be effective through **11/3/2022**:
  - Q85, Q87, Q97, Q109, Q113, Q135, Q409
  - Y291, Y309, Y319, Y323



# Preferred IFR Routes Effective 10/7/2021

## The following changes will be implemented on 10/7/2021:

- **ATL PHIIL 3 RNAV SID: HRTWL transition replaces GRD transition**
- **Q54, HRTWL waypoint replaces GRD VORTAC**
  - ASHEL waypoint added between RAYNE and NUTZE
- **Q64, HRTWL waypoint replaces GRD VORTAC**
  - DADDS and MARCL waypoints added between IDDA and TYI
- **Q29, MEMFS waypoint replaces MEM VORTAC**
  - DUNOM waypoint moved 1.26 NM east to the US/Canadian border
- **Q34, MEMFS waypoint replaces MEM VORTAC**
  - LOOSE waypoint added between TXK and WASKO

Existing Route	New Route
PHIIL (RNAV)-DP GRD	PHIIL (RNAV)-DP HRTWL
Q54 GRD	Q54 HRTWL
GRD Q54	HRTWL Q54
Q64 GRD	Q64 HRTWL
GRD Q64	HRTWL Q64
Q29 MEM	Q29 MEMFS
MEM Q29	MEMFS Q29
Q34 MEM	Q34 MEMFS
MEM Q34	MEMFS Q34

Origin	Destination	Route Type	Route Number	Revised Route String
ATL	JFK	H	1	PHIIL (RNAV)-DP HRTWL Q64 TYI ORF J121 SIE CAMRN-STAR
ATL	ORF	H	1	PHIIL (RNAV)-DP HRTWL Q54 NUTZE DRONE DRONE-STAR
ATL	PHF	H	1	PHIIL (RNAV)-DP HRTWL Q54 NUTZE DRONE DRONE-STAR
DFW	BDL	H	1	TRYTN (RNAV)-DP LOOSE MEMFS Q29 JHW Q82 MEMMS WILET STELA-STAR
DFW	JFK	H	1	FORCK (RNAV)-DP FORCK ELD SQS Q30 VUZ ATL HRTWL Q64 TYI ORF J121 SIE CAMRN-STAR
HOU	ORF	H	1	ELOCO (RNAV)-DP LLA HRV SJI J37 CATLN Q64 HRTWL Q54 NUTZE DRONE DRONE-STAR
IAH	ORF	H	1	GUMBY (RNAV)-DP GUSTI Q22 CATLN Q64 HRTWL Q54 NUTZE DRONE DRONE-STAR
IAH	ORF	H	2	MMUGS (RNAV)-DP GUSTI Q22 CATLN Q64 HRTWL Q54 NUTZE DRONE DRONE-STAR
MEM	SDF	H	2	MEMFS Q29 SIDAE CHERI CHERI-STAR

Additional changes publishing on 10/7/2021 for Q22, Q34, Q419, and Q437 will be reflected in the 12/2/2021 Preferred IFR Route amendments, concurrent with the cancellation of NA NOTAMs.



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# Preferred IFR Routes Effective 2DEC2021

- **Will distribute as soon as possible**
- **Provided for advance planning purposes only**
- **Please do not file the new routes until 12/2/2021**
- **National Playbook Routes and Coded Departure Routes are also being updated**



# How Operators Can Help

- **Share this briefing with others**
  - Share with route planners, dispatchers, & management/staff
- **Provide feedback and suggestions**
  - Help identify issues/mitigations not yet identified
  - Direct questions/comments to NEC ACR
- **Watch for additional information**
  - Flight Planners Telcon, NCF briefings, NBAA, IATA, etc.
- **Plan resources for route planning & programming**
  - Updated Preferred IFR Routes to be distributed ASAP
  - Do not file the new Q-Routes before 12/2/2021
- **Be ready to utilize the new routes**
  - File the new Q-Routes beginning on 12/2/2021



# Implementation TMs

- Utilized up to 2 weeks during the implementation period
- To provide controllers and aircrews the opportunity to become accustomed to the new routes and changes to the airspace while ensuring a safe operation
- Intended to reduce complexity and redistribute volume across all available airspace
- TMs being considered to reduce the need for AFPs
  - Reroutes to the west of ZDC i.e.J6, altitude capping or tunneling
- Voluntary actions to reduce need for TMs
  - Use of overwater routes, filing at/above FL400, filing lower altitudes on shorter routes, filing routes west or north of ZDC
- TMs to be re-evaluated on a daily basis



# NEC ACR Go Team

- **Utilize the Virtual Go-Team 12/2-12/4/2021**
  - Open conference bridge staffed by subject matter experts available to address any ATC or operator issues
  - ZoomGov meeting; **Password for all options is 252302**
    - Click to Join: <https://faavideo.zoomgov.com/j/16197088093>
    - Call 1-888-924-3239 or 1-571-302-4908; Meeting ID: 16197088093
    - Download the 'Zoom Cloud Meetings' App; Select 'Join a Meeting' and enter Meeting ID: 16197088093
  - Dates/Hours/Status Reports
    - Thursday, Friday, Saturday(if needed) 12/2-4, 0600-1600
    - Status Reports @ 0600, 1000, and 1400 EDT
- **The NEC ACR Q-Route/Y-Route NA NOTAMs will be cancelled on 12/2/2021 at 0900 GMT**
  - Please do not file the new Q-Routes until 12/2/2021



# FAA Points of Contact

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**770-363-1718**



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# Request from Boston ARTCC Flight Plans to PHL

- Please refrain from using J55 in flight plans to PHL or Philadelphia satellite airports
- Instead, utilize Q439 to the maximum extent possible
- Preferred IFR Routes are available at:
  - [NFDC Preferred Routes Database \(faa.gov\)](https://www.faa.gov/air_traffic/flight_info/nfdc/)
- If departing an airport without a published route, please improvise and try to use one of the following arrival routes
  - RIFLE Q439 BRIGS JIIMS3 PHL
  - MANTA Q439 BRIGS JIIMS3 PHL



# Preferred IFR Routes to PHL

Orig	Dest	Route String
ACK	PHL	ACK MVY JAWZZ Q220 RIFLE Q439 BRIGS JIIMS3 PHL
ACK	PHL	ACK MVY JAWZZ Q220 RIFLE Q439 BRIGS JIIMS3 PHL
BDL	PHL	BDL CSTL9 CCC MANTA Q439 BRIGS JIIMS3 PHL
BED	PHL	BED PUT CCC MANTA Q439 BRIGS JIIMS3 PHL
BGR	PHL	BGR BEEKN Q439 BRIGS JIIMS3 PHL
BOS	PHL	BOS SSOXS5 SSOXS BUZRD SEY ORCHA RIFLE Q439 BRIGS JIIMS3 PHL
MHT	PHL	MHT PPORT3 CCC MANTA Q439 BRIGS JIIMS3 PHL
PVD	PHL	PVD JUMPR RIFLE Q439 BRIGS JIIMS3 PHL
PWM	PHL	PWM NUBLE4 CCC MANTA Q439 BRIGS JIIMS3 PHL
ALLEX	PHL	ALLEX LARIE Q220 RIFLE Q439 BRIGS JIIMS3 PHL
BRADD	PHL	BRADD LARIE Q220 RIFLE Q439 BRIGS JIIMS3 PHL
DOVEY	PHL	DOVEY ACK JAWZZ Q220 RIFLE Q439 BRIGS JIIMS3 PHL
EBONY	PHL	EBONY BEEKN Q439 BRIGS JIIMS3 PHL
KANNI	PHL	KANNI LARIE Q220 RIFLE Q439 BRIGS JIIMS3 PHL
QUBIS	PHL	QUBIS PQI Q439 BRIGS JIIMS3 PHL
SAILE	PHL	SAILE ACK JAWZZ Q220 RIFLE Q439 BRIGS JIIMS3 PHL
TAFFY	PHL	TAFFY PQI Q439 BRIGS JIIMS3 PHL
TOPPS	PHL	TOPPS BEEKN Q439 BRIGS JIIMS3 PHL
TUSKY	PHL	TUSKY LARIE Q220 RIFLE Q439 BRIGS JIIMS3 PHL
VITOL	PHL	VITOL ACK JAWZZ Q220 RIFLE Q439 BRIGS JIIMS3 PHL
WHALE	PHL	WHALE LARIE Q220 RIFLE Q439 BRIGS JIIMS3 PHL



# NEC ACR Changes – 2022

- **9/8/2022 (19) Q-Route Additions/Amendments**
  - Publish (9) New Q101, Q107, Q111, Q117, Q131, Q133, Q167, Q445, Q481
  - Amend (10) Q22, Q60, Q85, Q87, Q97, Q99, Q109, Q113, Q135, Q409
- **9/8/2022 Amend ATL PLMMR3 SID**
- **9/8/2022 (4) Y-Route Additions/Amendments**
  - Amend (4) Y291, Y309, Y319, Y323
- **9/8/2022 NOTAM NA the above Q-Routes/Y-Routes (except Q22)**
- **11/3/2022 Cancel NA NOTAMs and Implement Q/Y-Routes**
  - Includes cancellation of NA NOTAMs for Y289, Y299
- **11/3/2022 (19) J-Route Deletions/Amendments**
  - Delete (15) J37, J55, J79, J121, J165, J174, J191, J207, J209, J506, J561, J563, J573, J582, J585
  - Amend (4) J14, J24, J52, J68
- **11/3/2022 (9) AR-Route Additions/Amendments**
  - Amend (9) AR15, AR16, AR17, AR18, AR19, AR21, AR22, AR23, AR24
- **11/3/2022 (5) STARs**
  - Amend (4) STARs: PHL (JIIMS4, PAATS4), EWR (PHLBO4), TEB (JAIKE4)
  - Publish New LGA PROUD1 STAR
- **12/29/2022 (2) STARs**
  - Delete (2) STARs: LGA (KORRY4), EWR (DYLIN4)

10/7/2021

Q22 Amend

BEARI, VA TO FOXWD, CT

FOXWD

BAYYS

ZBW

ZNY

RBV

LLUND

LAURN

**NEW SEGMENT(S) to be NOTAM'd NA  
for 56 days 10/7/2021-12/2/2021**

BRAND

JOEPO

BESSI

PYTHN

DANGR

SYFER

ZDC

SHTGN

BBOBO

UMBRE

BEARI

OMENS

Implement on 12/2/2021



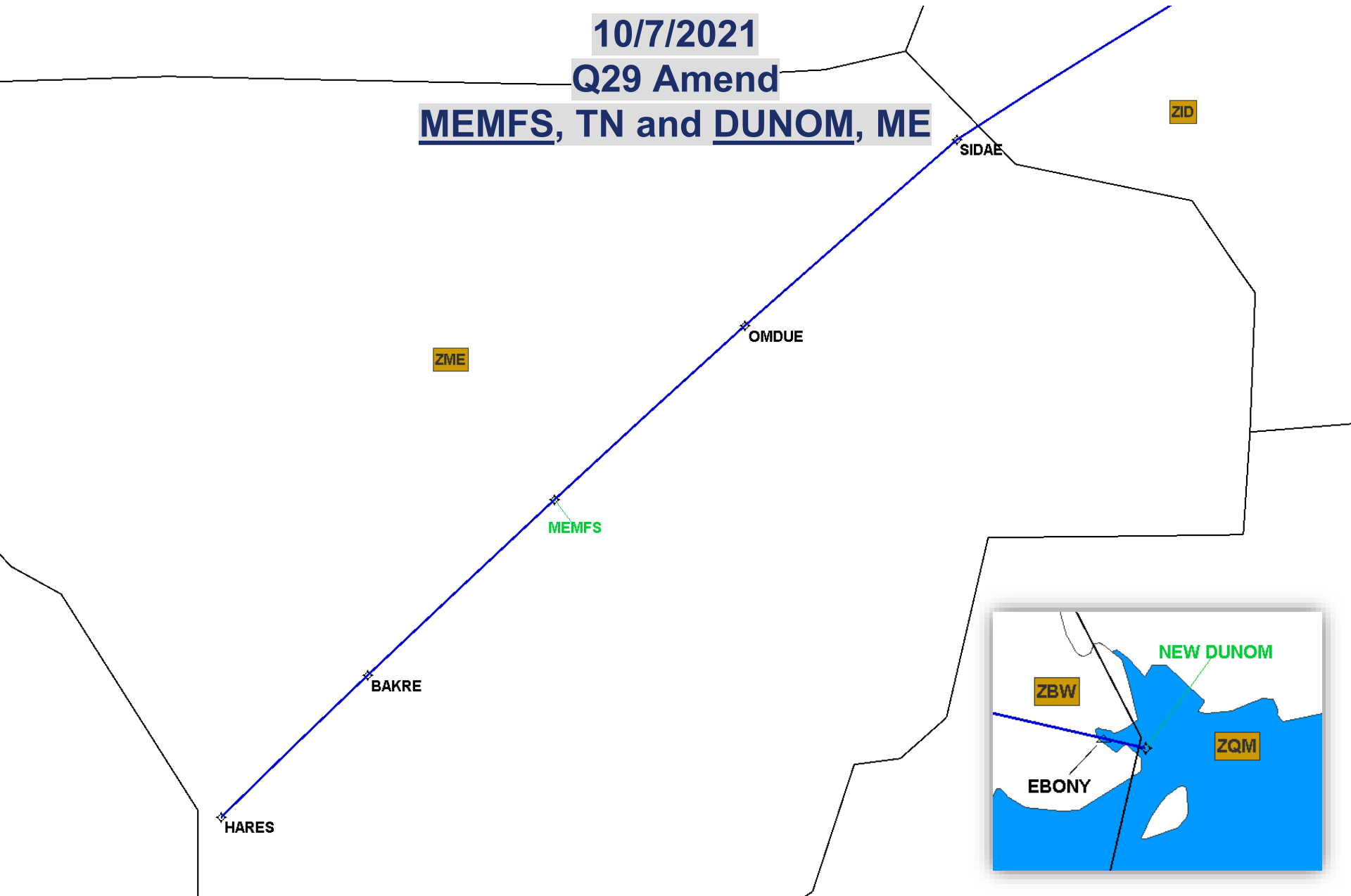
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10/7/2021

Q29 Amend

MEMFS, TN and DUNOM, ME



Implement on 10/7/2021



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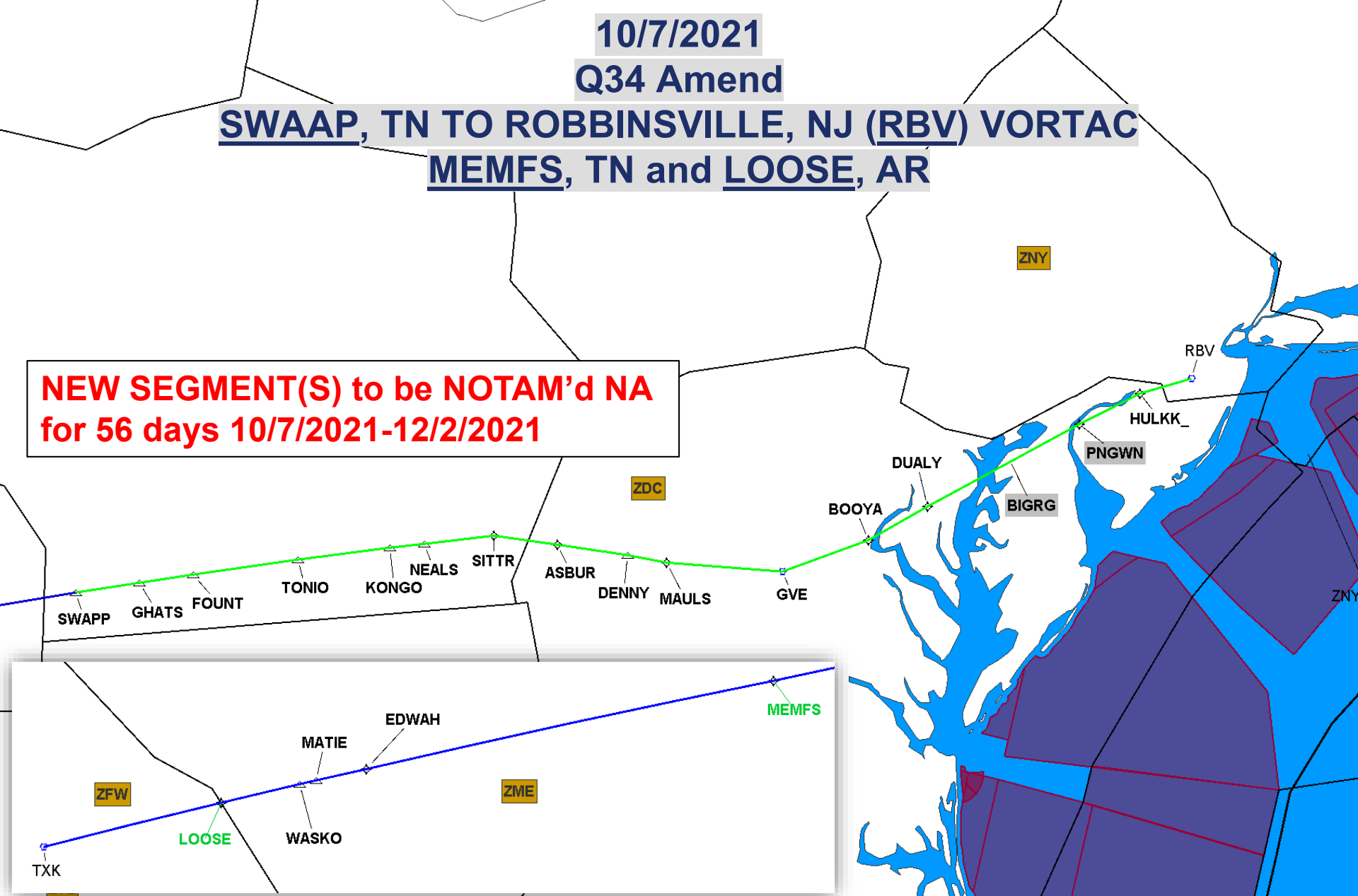


10/7/2021

Q34 Amend

**SWAAP, TN TO ROBBINSVILLE, NJ (RBV) VORTAC**  
**MEMFS, TN and LOOSE, AR**

**NEW SEGMENT(S) to be NOTAM'd NA**  
**for 56 days 10/7/2021-12/2/2021**



Implement on 12/2/2021



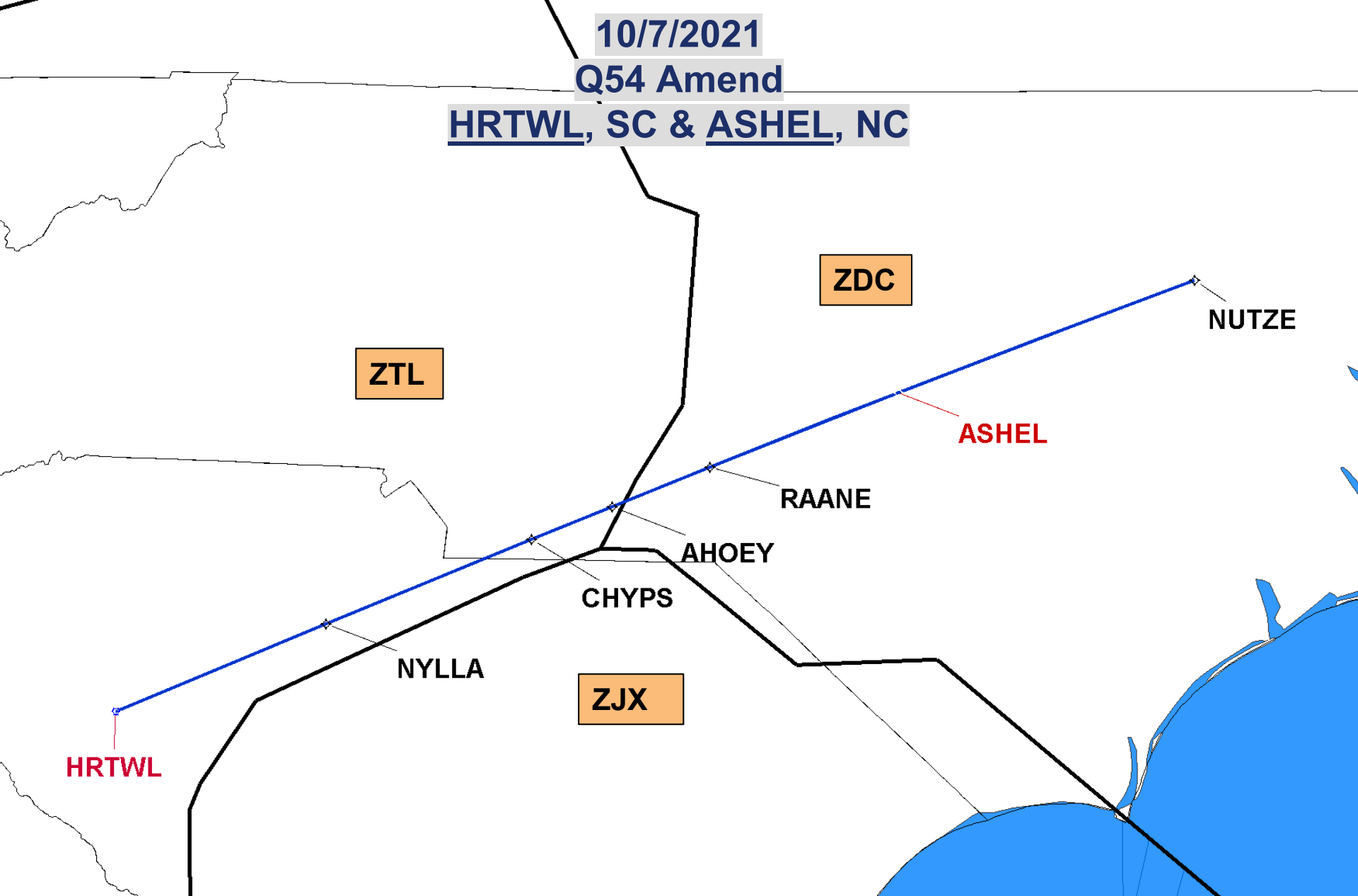
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10/7/2021

Q54 Amend

HRTWL, SC & ASHEL, NC



Implement on 10/7/2021



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10/7/2021

Q64 Amend

**TAR RIVER, NC (TYI) VORTAC TO SAWED, VA  
HRTWL, SC, DADDS, NC and MARCL, NC**

**NEW SEGMENT(S) to be NOTAM'd NA  
from 10/7/2021-11/3/2022**



Implement TYI-SAWED on 11/3/2022



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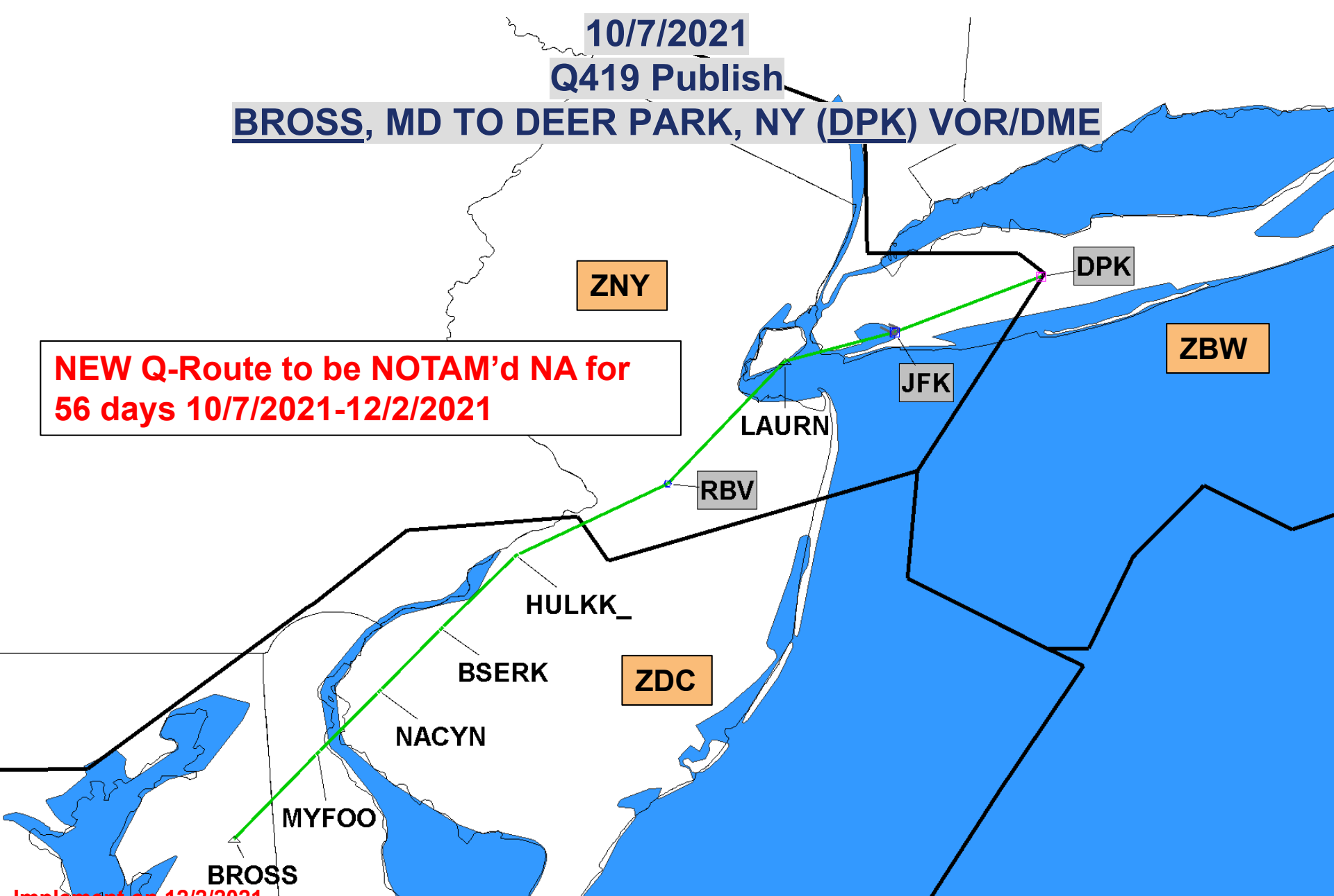


10/7/2021

Q419 Publish

**BROSS, MD TO DEER PARK, NY (DPK) VOR/DME**

**NEW Q-Route to be NOTAM'd NA for 56 days 10/7/2021-12/2/2021**



Implement on 12/2/2021



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10/7/2021

Q437 Publish

VILLS, NJ TO SLANG, VT

SLANG

WARUV

ZBW

BINGS

BIZEX

LLUND

HNAH

LUIGI

DITCH

ZDC

VILLS

ZNY

Changes made per ZBW:

New Docket#: 20-AEA-19

**NEW Q-Route to be NOTAM'd NA for  
56 days 10/7/2021-12/2/2021**

Implement on 12/2/2021



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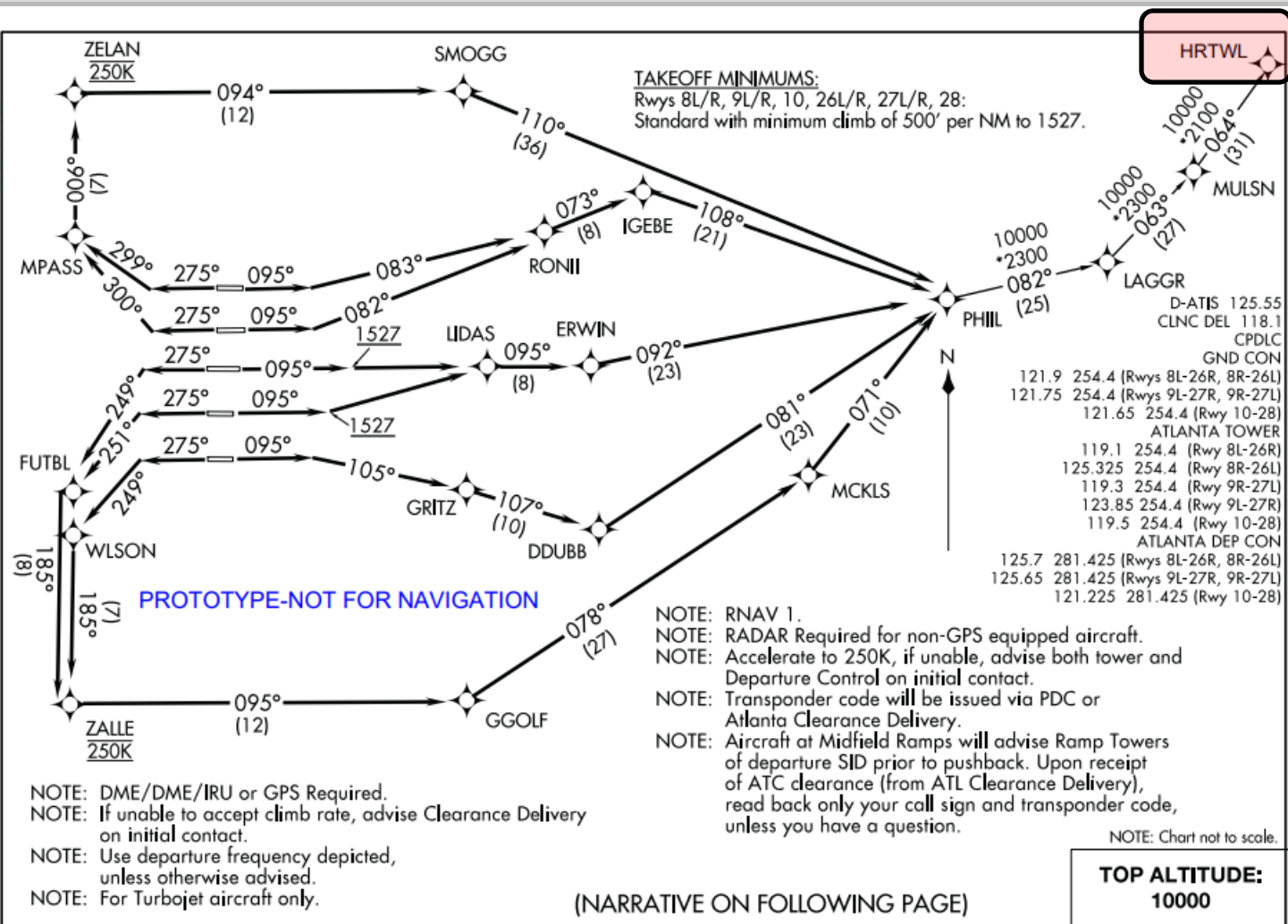
10/7/2021

# ATL PHIL 3 SID

## REPLACE GRD with HTRWL waypoint

PHIL THREE DEPARTURE (RNAV)  
(PHIL3.PHIL) FIG

HARTSFIELD-JACKSON ATLANTA INTL (ATL)  
ATLANTA, GEORGIA



(PHIL3.PHIL)  
PHIL THREE DEPARTURE (RNAV)

FIG

ARTSFIELD-JACKSON ATLANTA INTL (ATL)  
ATLANTA, GEORGIA

Implement on 10/7/2021



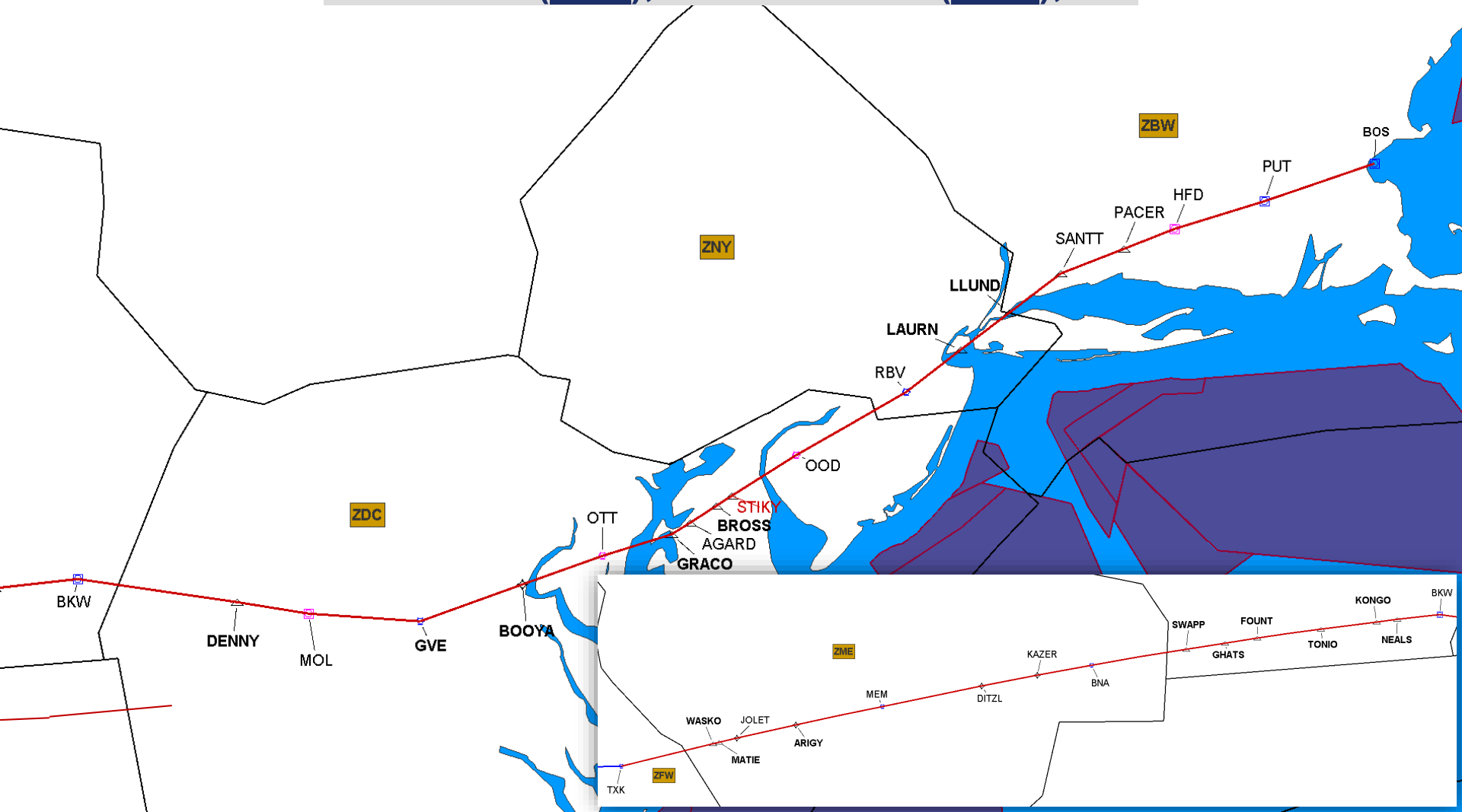
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12/2/2021

# J42 Cancel Segment

## Texarkana (TXK), AR to Boston (BOS), MA



Red Segment Being Deleted

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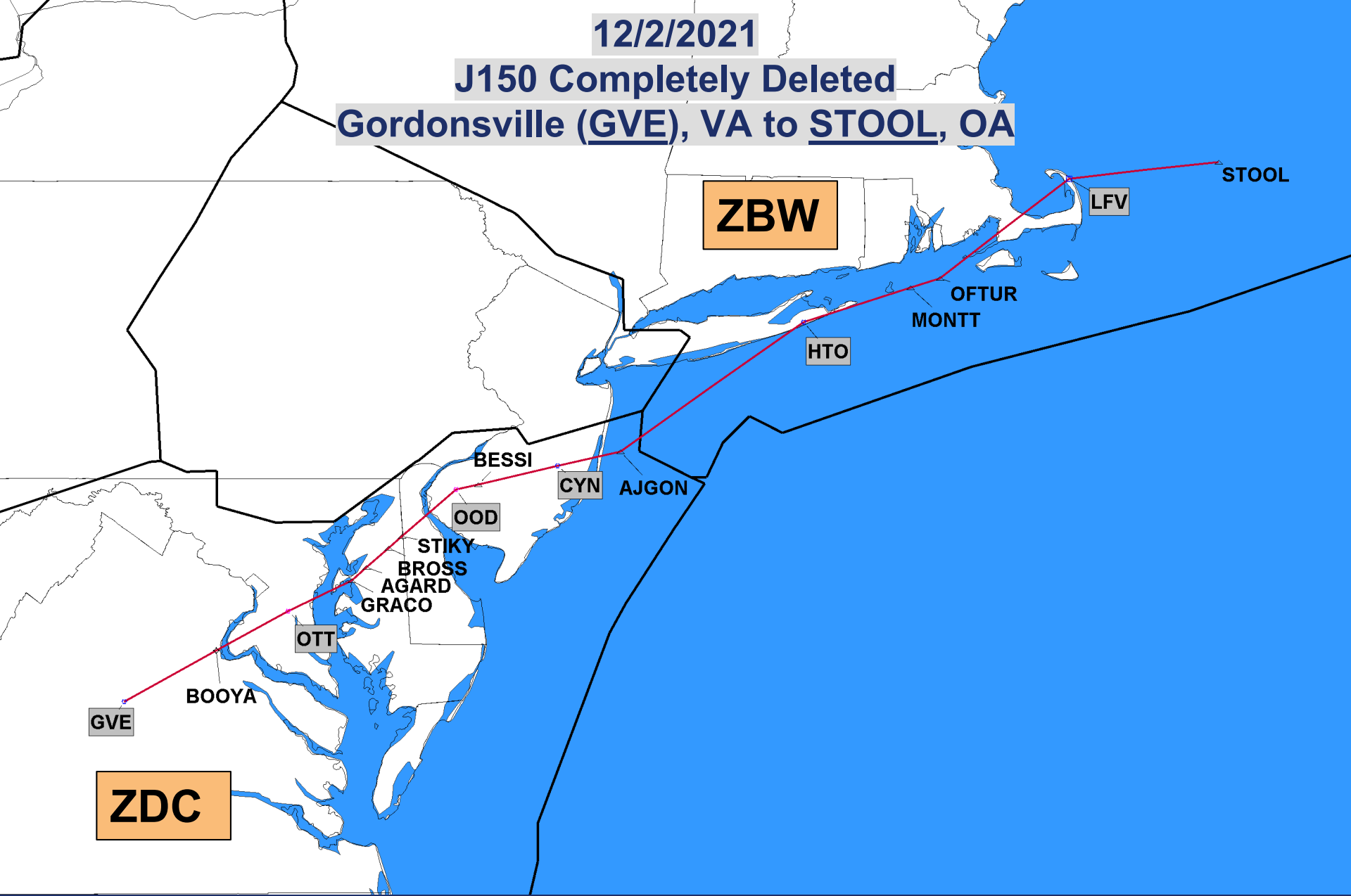


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12/2/2021

# J150 Completely Deleted Gordonsville (GVE), VA to STOOL, OA



J-Route Deleted in its Entirety

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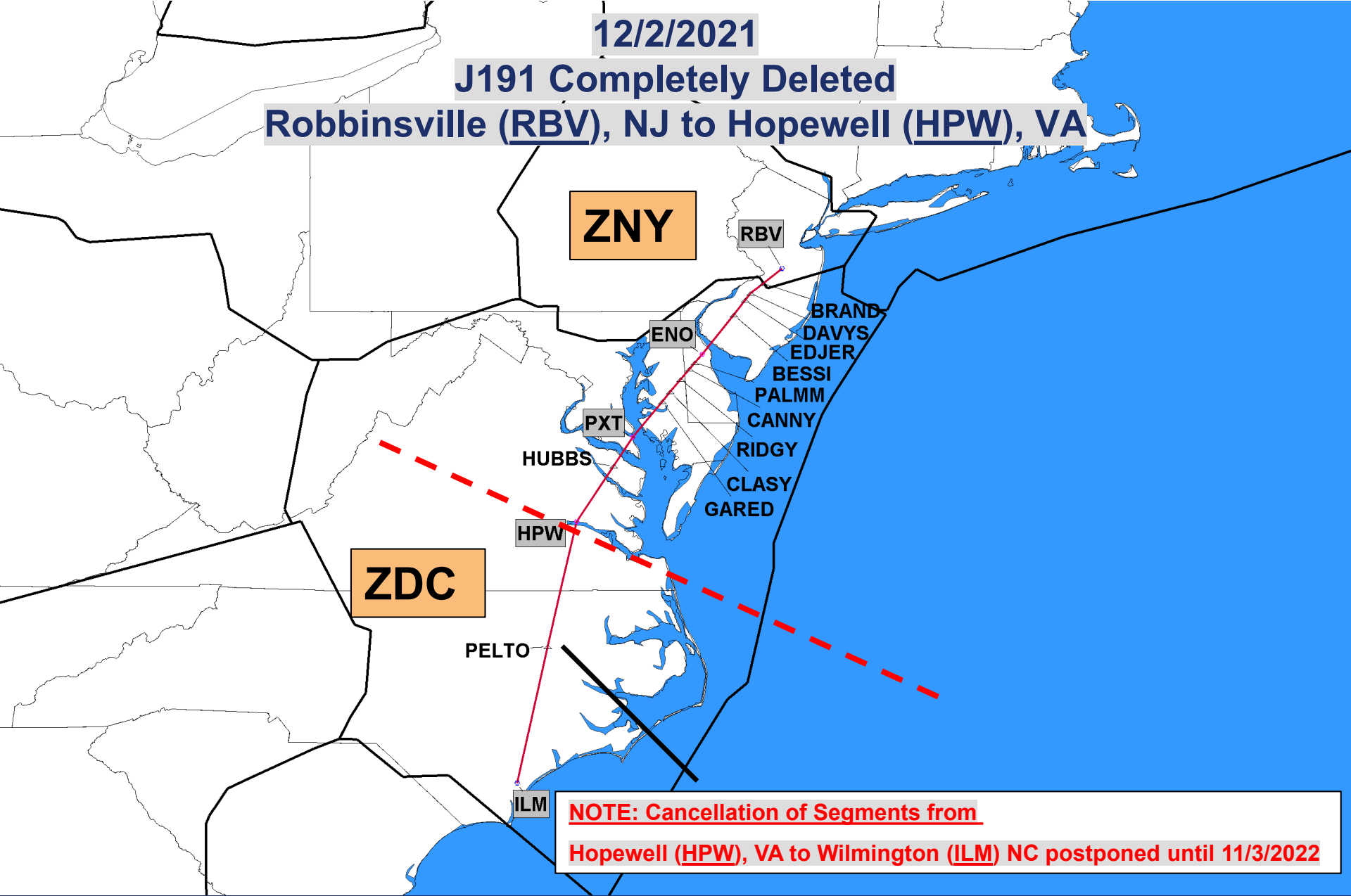


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12/2/2021

# J191 Completely Deleted Robbinsville (RBV), NJ to Hopewell (HPW), VA



**NOTE: Cancellation of Segments from Hopewell (HPW), VA to Wilmington (ILM) NC postponed until 11/3/2022**

J-Route Deleted in its Entirety

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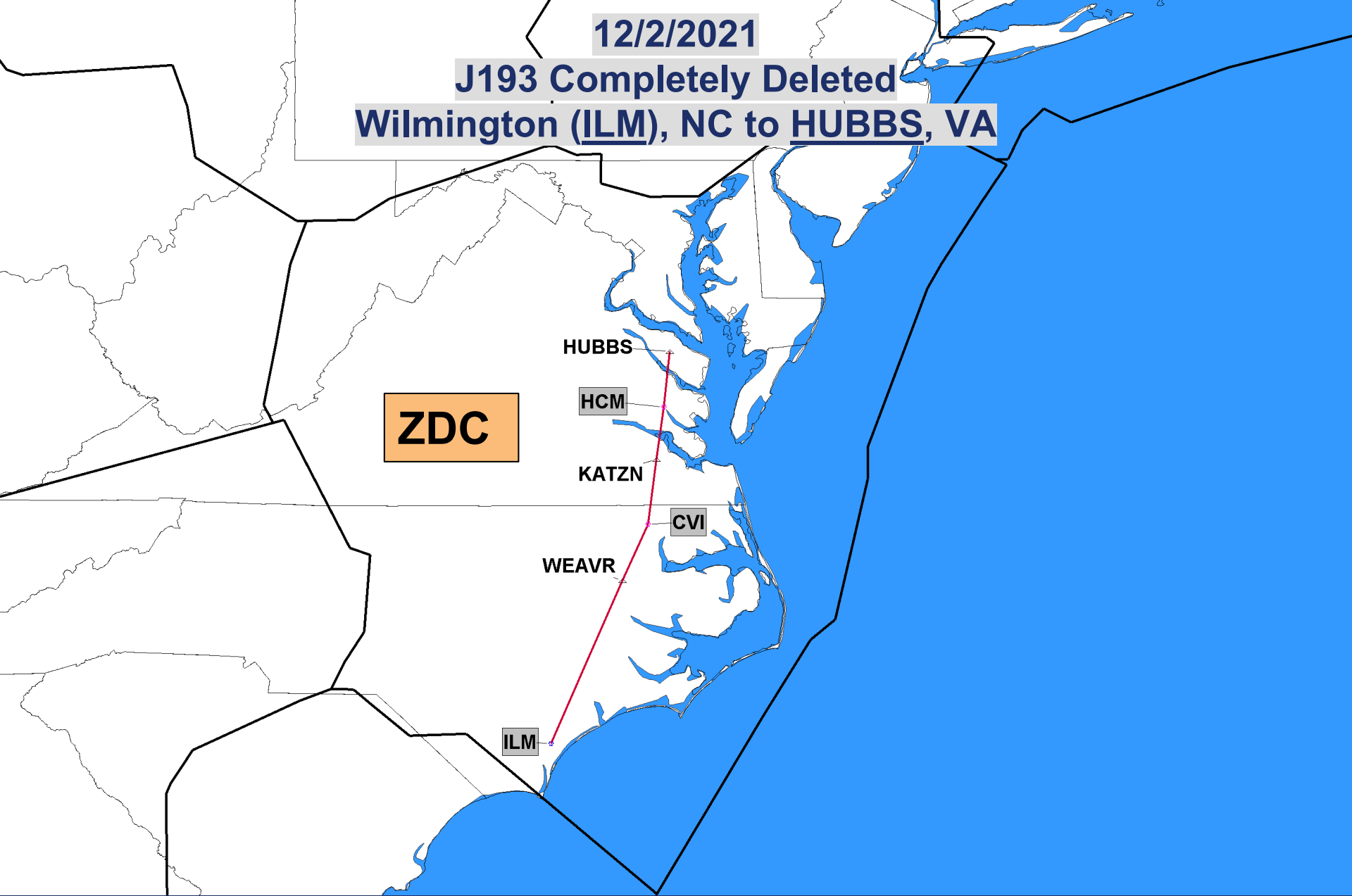


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# J193 Completely Deleted Wilmington (ILM), NC to HUBBS, VA



J-Route Deleted in its Entirety

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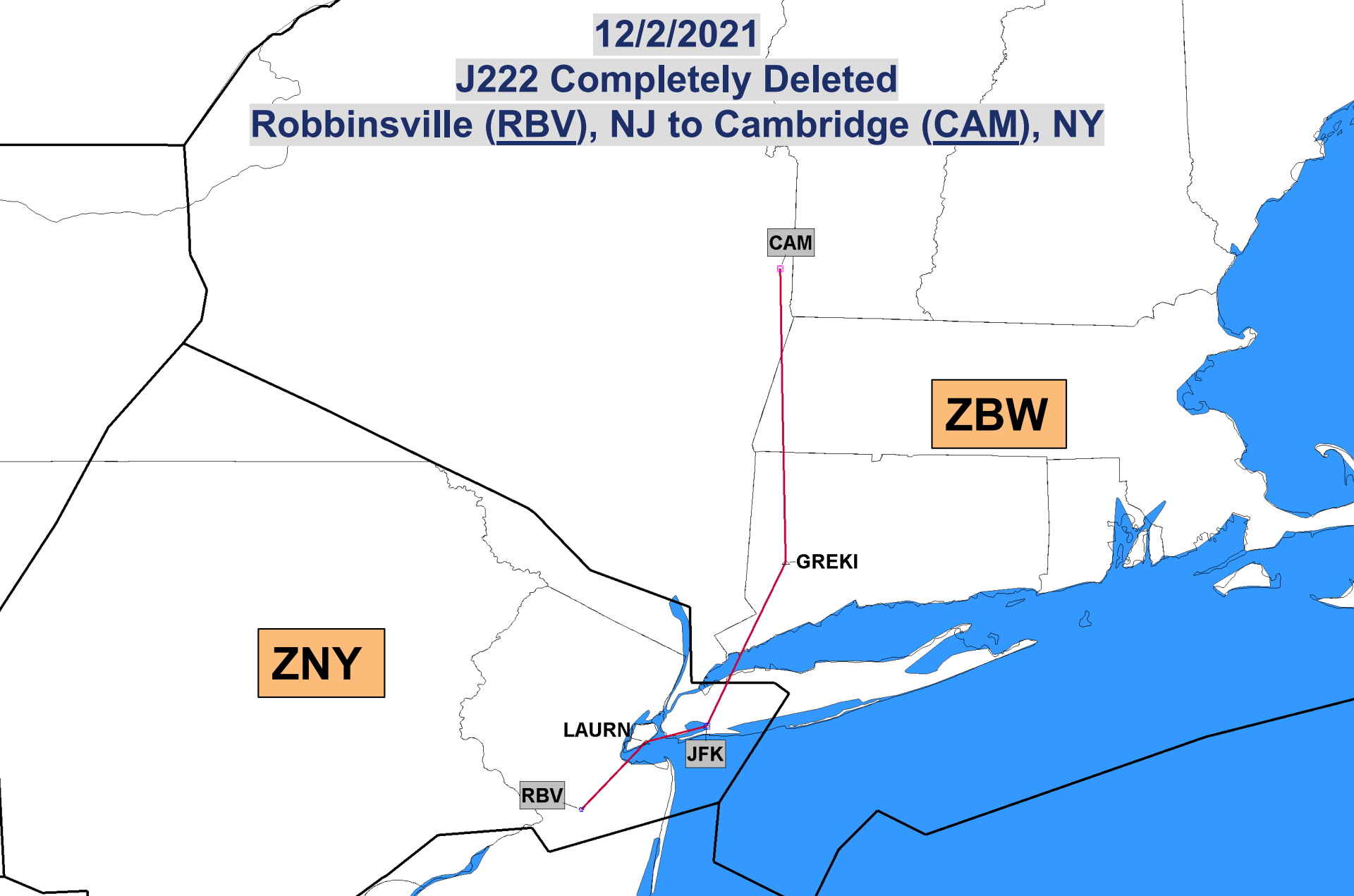


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12/2/2021

# J222 Completely Deleted Robbinsville (RBV), NJ to Cambridge (CAM), NY



J-Route Deleted in its Entirety

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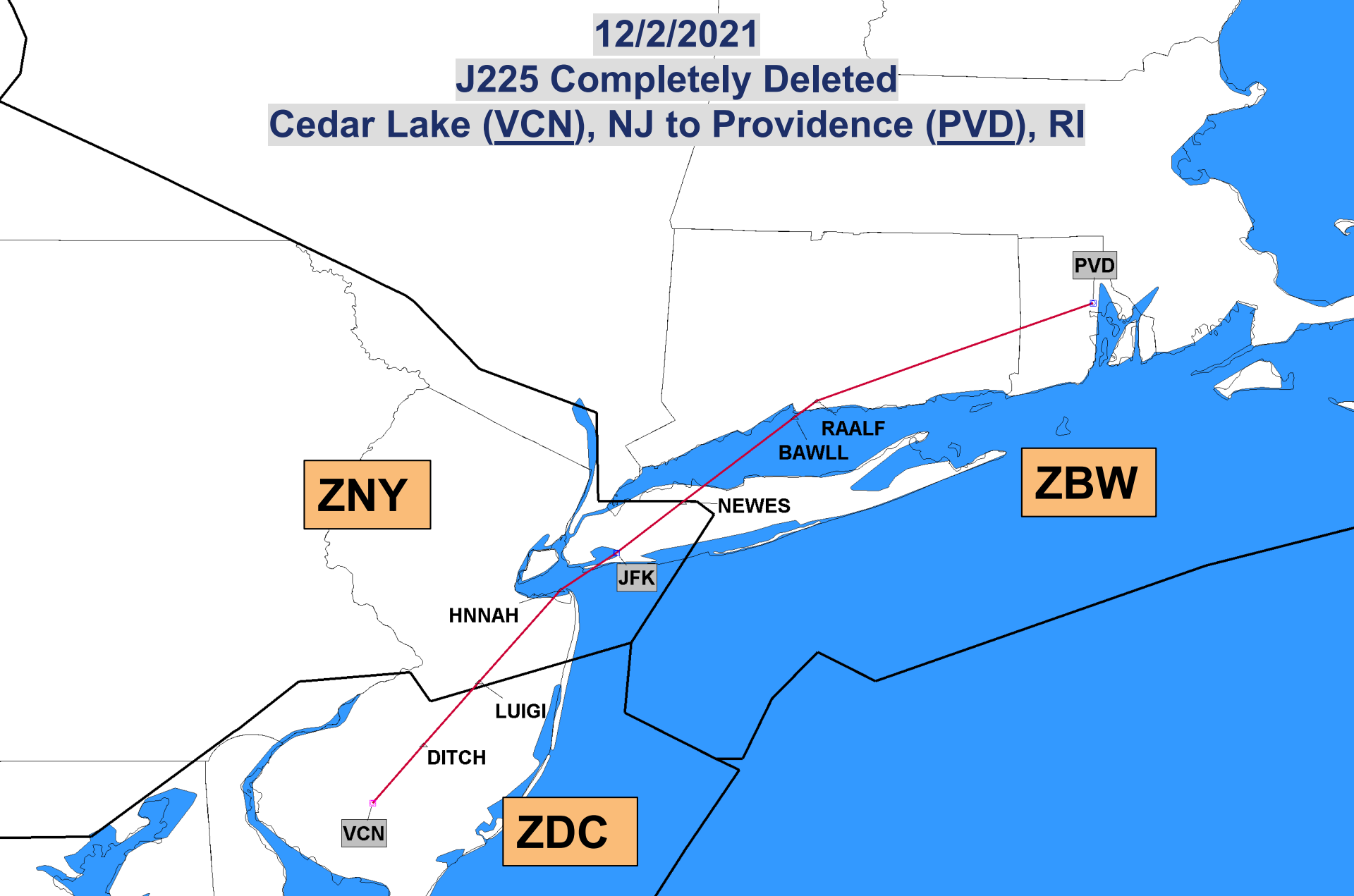


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12/2/2021

# J225 Completely Deleted Cedar Lake (VCN), NJ to Providence (PVD), RI



J-Route Deleted in its Entirety

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