

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: April 26-28, 2022

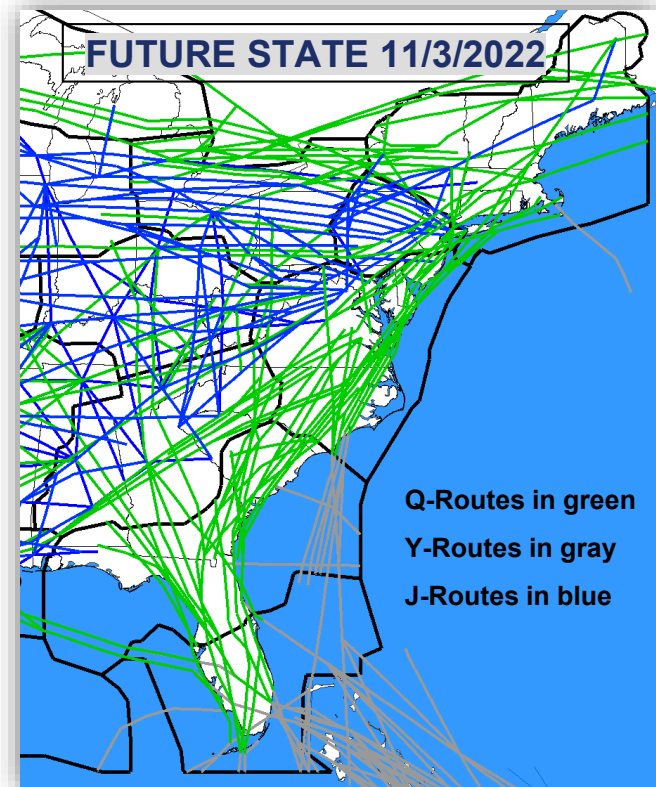


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NEC ACR Summary

- Implemented 106 route changes 2019-2021 (66% of 161 total)
- Implementation of remaining 55 routes on track for 11/3/2022
 - Includes realignment for ZJX Y-Routes and AR-Routes south ILM
 - Preferred IFR Routes, CDRs, and Playbook routes under development
 - Requested a test-NASD for evaluation of the 11/3/2022 configuration
 - Increasing stakeholder outreach; NIWG, NCF, DIM, FP filers
 - New routes to be published on 9/8/2022, but NOTAM'd Not Authorized (NA) until 11/3/2022, concurrent with J-Route deletions
 - Traffic Management Initiatives (TMIs) to be developed with ATCSCC
 - Go-Teams to be used on 9/8/2022 and 11/3/2022 (3-4 days as needed)
- ZDC Ultra-High Sector 30, not currently in use
 - Issues encountered during initial implementation



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



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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 Published/Implemented 1 New Y-Route and 8 Waypoints
 - ✓ 11/7/2019 Implemented ZDC Low Altitude Sector Changes
 - ✓ 1/30/2020 Deleted/Amended 33 J-Routes/Q-Route (FL Metroplex)
 - ✓ 1/30/2020 Deleted 5 CHS STARs
 - ✓ 3/26/2020 Deleted/Amended 6 SIDs (BWI/IAD/DCA/HEF/ADW)
 - ✓ 5/21/2020 Amended 2 Q-Routes: Q75, Q475
 - ✓ 5/21/2020 Amended 1 SID (DOV)
 - ✓ 7/16/2020 Deleted/Amended 18 J-Routes
 - ✓ 9/10/2020 Published/Amended 8 Q-Routes
 - ✓ 11/5/2020 Published/Deleted/Amended 9 STARs (PHL/EWR/TEB/LGA/DOV/WRI)
 - ✓ 11/5/2020 Published/Deleted/Amended 9 SIDs/STARs/SIAPs (CHS/JZI)
 - ✓ 11/5/2020 Deleted/Amended 10 J-Routes, 1 Q-Route
 - ✓ 2/25/2021 Published/Deleted/Amended 20 RDU SIDs/STARs/SIAPs
 - ✓ 10/7/2021 Published/Deleted/Amended 28 Q-Routes/Y-Routes/AR-Routes
 - ✓ 10/7/2021 Amended 1 SID (ATL), 1 STAR (WRI)
 - ✓ 12/2/2021 Deleted/Amended 6 Jet Routes
- COVID-19

107 Routes Published, Amended, Deleted in 2020-2021



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NEC ACR Changes - 2021

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

- Published (2) New Q419, Q437
- Amended (5) Q22, Q29*, Q34, Q54*, Q64

✓ NOTAM NA Q-Routes

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

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

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

✓ NOTAM NA Y-Routes

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

✓ 10/7/2021 (1) SID

- Amended ATL PHIL3 SID

✓ 12/2/2021 Canceled Q-Route NA NOTAMs: Implemented Q419, Q22, Q437, Q34

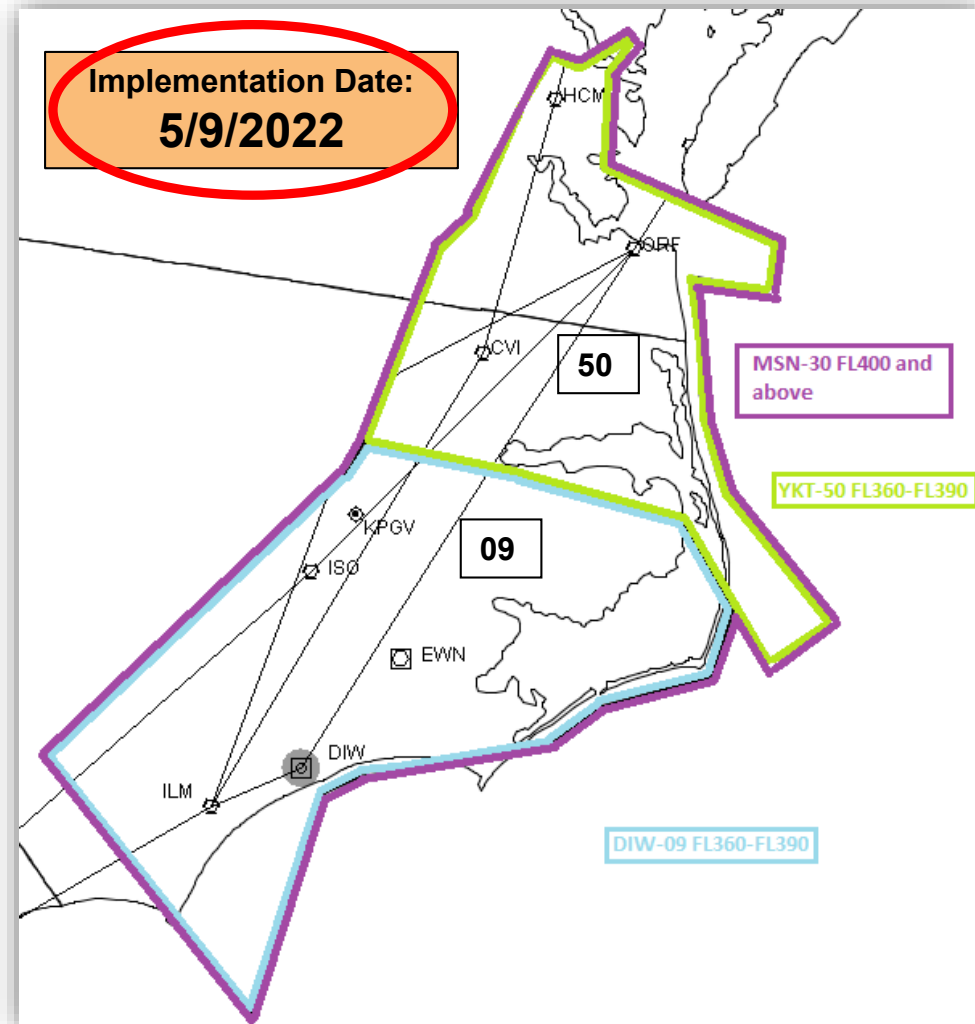
✓ 12/2/2021 (6) J-Route Deletions/Amendments

- Deleted (4) J150, J193, J222, J225
- Amended (2) J42, J191 (Delete HPW-RBV Only)



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 – 2022

- **TBD/2022 ZDC High Altitude Sector Changes (Sector 30)**
- **9/8/2022 (22) 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
 - Amend (2) Q34, Q419 (recently added, post-implementation)
 - Amend Q75 (recently added, post-implementation)
- **9/8/2022 Amend ATL PLMMR3 SID**
- **9/8/2022 (4) Y-Route Additions/Amendments**
 - Amend (4) Y291, Y309, Y319, Y323
 - Amend (2) Y299, Y307 (added 3/9/2022)
 - Publish (2) New Y313, Y327 (added 3/9/2022)
- **9/8/2022 NOTAM NA the above Q-Routes/Y-Routes (except Q22, Q34, Q75, Q419)**
- **11/3/2022 Cancel NA NOTAMs and Implement Q/Y-Routes**
 - Includes auto-cancellation of NA NOTAMs for Y289, Y299, and Q64 issued in 2021
- **11/3/2022 (19) J-Route/Q-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
 - Delete Q947 (recently added)
 - Amend Q81 (recently added, Florida Metroplex post-implementation)
- **11/3/2022 (9) AR-Route Additions/Amendments**
 - Amend (8) AR15, AR16, AR17, AR18, AR19, AR22, AR23, AR24
 - Delete (1) AR21
- **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)

NEC ACR Changes – 2023

- **2/23/2023**
 - Amend (1) Q437
 - Publish (1) New Q141
- **4/20/2023**
 - Amend (1) Q101



Q-Route NA NOTAMs

Effective 9/8/2022-11/3/2022

The following 9 NEW Q-Routes will be NOTAM'd NA in their entirety

- Q101, SKARP, NC TUGGR,
- Q107, GARIC, NC TO HURTS, VA
- Q111, ZORDO, NC TO ALXEA, VA
- Q117, YLEEE, NC TO SAWED, VA
- Q131, ZILLS, NC TO ZJAAY, MD
- Q133, CHIEZ, NC TO PONCT, NY
- Q167, ZJAAY, MD TO SSOXS, MA
- Q445, PAACK, NC TO KYSKY, NY
- Q481, CONFR, MD TO DEER PARK, NY (DPK)
VOR/DME

Segments being added to 9 existing Q-Routes will be NOTAM'd NA; *Segments currently NOTAM by ZJX to be incorporated

- Q60, JAXSN, VA TO HURTS, VA
- *Q85, IGARY, SC TO CRPLR, VA
 - ZJX 1/0019 IGARY to SMPRR
- *Q87, JROSS, SC TO HURTS, VA
 - ZJX 1/0021 JROSS to LCAPE
- *Q97, CAKET, SC TO PRESQUE ISLE, ME (PQI) VOR/DME
 - ZJX 1/0023 CAKET to ELLDE
- Q99, POLYY, NC TO HURLE, VA
- *Q109, PANDY, SC TO DFENC, NC
 - ZJX 1/0024 PANDY to LAANA
- *Q113, RAYVO, SC TO RIDDN, VA
 - ZJX 1/0022 RAYVO to SARKY
- *Q135, JROSS, SC TO CUDLE, NC
 - ZJX 1/0020 JROSS to RAPZZ
- *Q409, JROSS, SC TO WHITE, NJ
 - ZJX 1/0017 JROSS to MRPIT

- Existing NOTAM for Q64 (ZDC 1/2274 TYI to SAWED) is effective until 11/3/2022
- Q22, Q34, Q75, Q419 will not be NOTAM'd NA and changes will be implemented when published on 9/8/2022



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 in September
- **Be ready to utilize the new routes**
 - File the new Q-Routes beginning on [11/3/2022](#)



Preferred IFR Routes Effective 3NOV2022

- **500+ amended Preferred IFR Routes expected**
- **Amendments to be distributed in September**
 - Machine readable file to be provided in mid-October
- **Provided for advance planning purposes only**
- **Please do not file the new routes until **11/3/2022****
- **National Playbook Routes and Coded Departure Routes are also being updated**



Implementation TMIs

- 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
- TMIs being considered to reduce the need for AFPs
 - Miles-in-Trail possible for new Q-Routes
- TMIs to be re-evaluated on a daily basis



NEC ACR Go Team

- **Utilize the Virtual Go-Team 11/3/2022-11/5/2022**
 - Open conference bridge staffed by subject matter experts available to address any ATC or operator issues
 - Dates/Hours/Status Reports
 - Thursday, Friday, Saturday(if needed) 11/3-5, 0600-1600
 - Status Reports @ 0600, 1000, and 1400 EDT
- **The NEC ACR Q-Route/Y-Route NA NOTAMs will be cancelled on 11/3/2022 at 0900 GMT**
 - Please do not file the new Q-Routes until **11/3/2022**



NEC ACR ROUTE INFO

If you have specific questions for FAA Enroute Centers (ARTCCs), please feel free to contact the following directly:

ARTCC	Name	Phone	Email
Boston Center	Terry Drew	(603) 879-6808	terrence.drew@faa.gov
	Dennis Tennett	(603) 879-6668	dtennett@natca.net
New York Center	John Coppola	(631) 468-1013	john.coppola@faa.gov
	John Higgins	(631) 468-1373	john.higgins@faa.gov
Washington Center	Adam Searcy	(386) 235-5220	adam.searcy@natca.net
	Chris Porta	(703) 771-3443	christopher.l.porta@faa.gov
Atlanta Center	Dwayne Copley	(770) 210-7707	billy.d.copley@faa.gov
	Kevin Condon	(770) 210-7960	kevin.w.condon@faa.gov
Jacksonville Center	Andrew Day	(904) 477-7305	zjxoapm@gmail.com
	Ross Gibson	(904) 845-1768	ross.gibson@faa.gov
Miami Center	Dave Petersen	(305) 716-1782	dpetersen13@hotmail.com
	Andre Ferguson	(305) 716-1783	andre.a.ferguson@faa.gov



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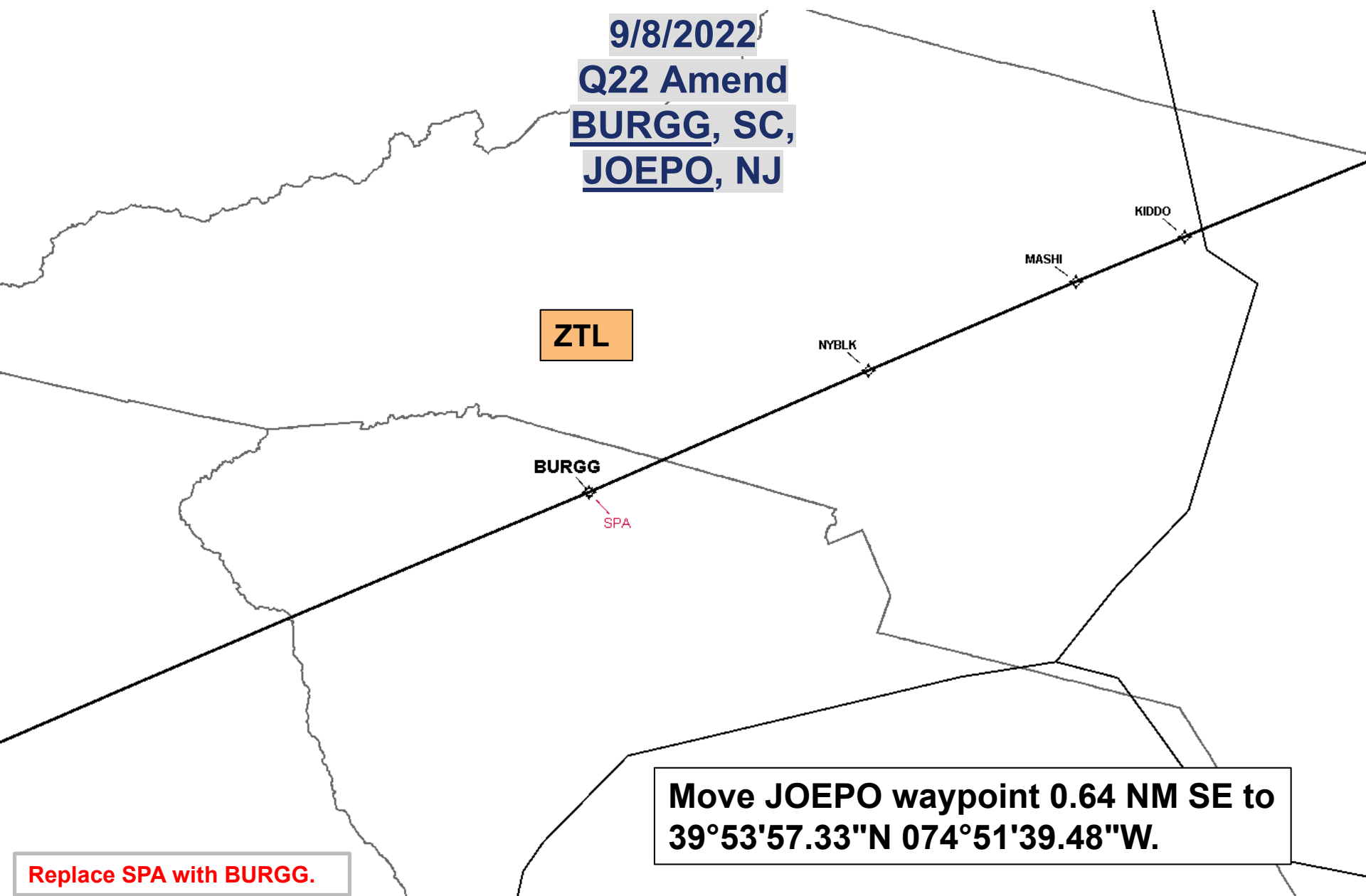


Changes Effective 9/8/2022

- **22 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
 - Amend (2) Q34, Q419 (recently added, post-implementation)
 - Amend Q75 (recently added, post-implementation)
- **4 Y-Route Additions/Amendments**
 - Amend (4) Y291, Y309, Y319, Y323
 - Amend (2) Y299, Y307 (added 3/9/2022)
 - Publish (2) New Y313, Y327 (added 3/9/2022)
- **NOTAM NA the above Q-Routes, Y-Routes until 11/3/2022**
 - EXCEPT Q22, Q34, Q75, and Q419 will not be NOTAM'd NA
- **Amend ATL PLMMR3 SID**



9/8/2022
Q22 Amend
BURGG, SC,
JOEPO, NJ



**Move JOEPO waypoint 0.64 NM SE to
39°53'57.33"N 074°51'39.48"W.**

Replace SPA with BURGG.

Implement on 9/8/2022



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9/8/2022
Q34 Amend
HITMN, TN
HULKK, NJ

ZME

HENSY

DITZL

WAKOL

HITMN

BNA

SWAPP

GHATS

FOUNT

HULKK_

HULKK_NEW

Move HULKK 2.36 NM SE.

Add HITMN between WAKOL and SWAPP.

Implement on 9/8/2022



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9/8/2022

Q60 Amend

JAXSN, VA TO HURTS, VA
BURGG, SC

ZDC

HURTS

SHIRY

JAXSN

LOOEY

EVING

ZTL

BYJAC

BURGG

Replace SPA with BURGG.

Add segment(s) JAXSN to HURTS.

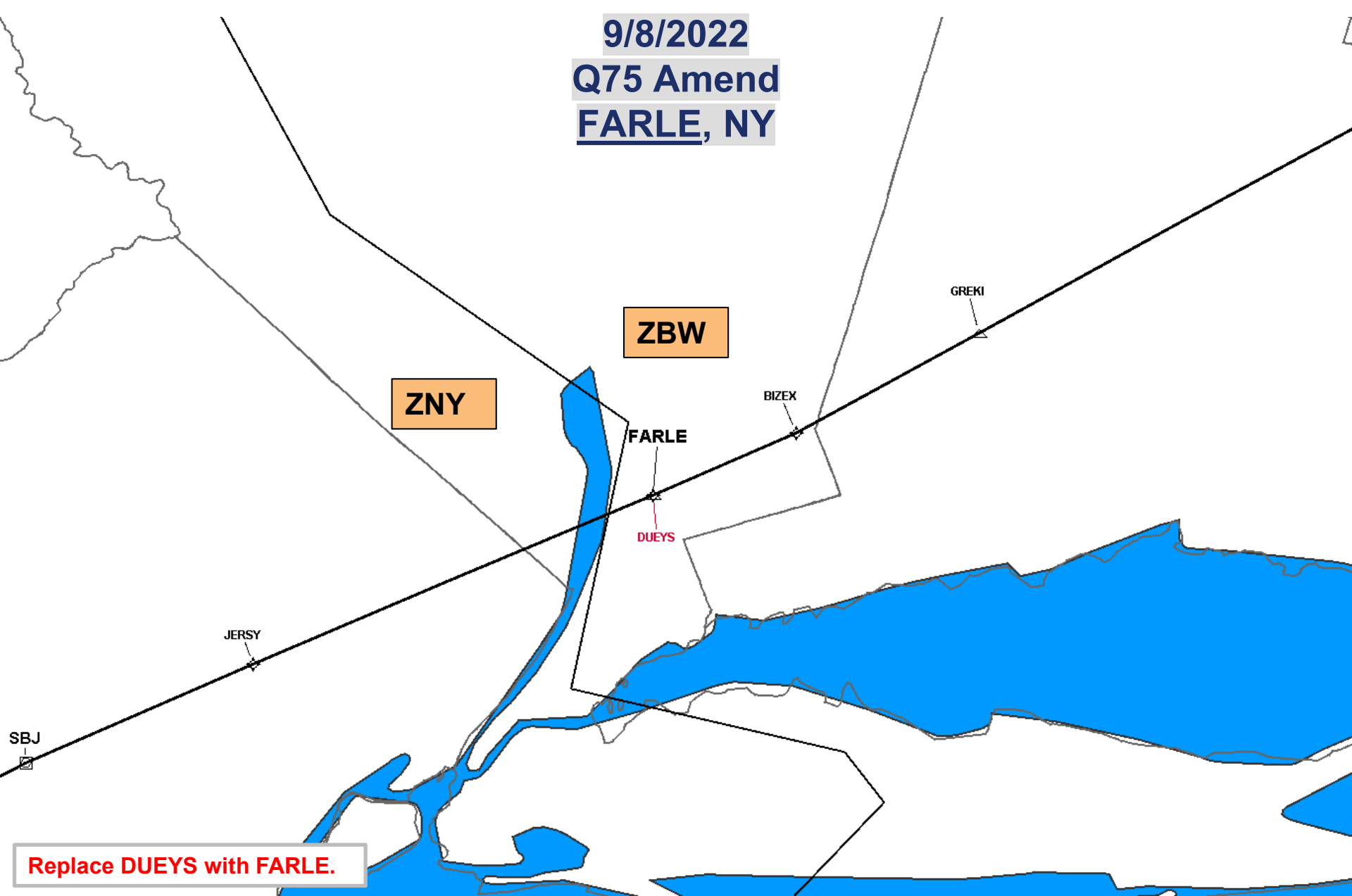
Implement on 11/3/2022



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9/8/2022
Q75 Amend
FARLE, NY



Replace DUEYS with FARLE.

Implement on 9/8/2022



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9/8/2022
Q85 Amend
SMPRR, NC TO CRPLR, VA



Implement on 11/3/2022



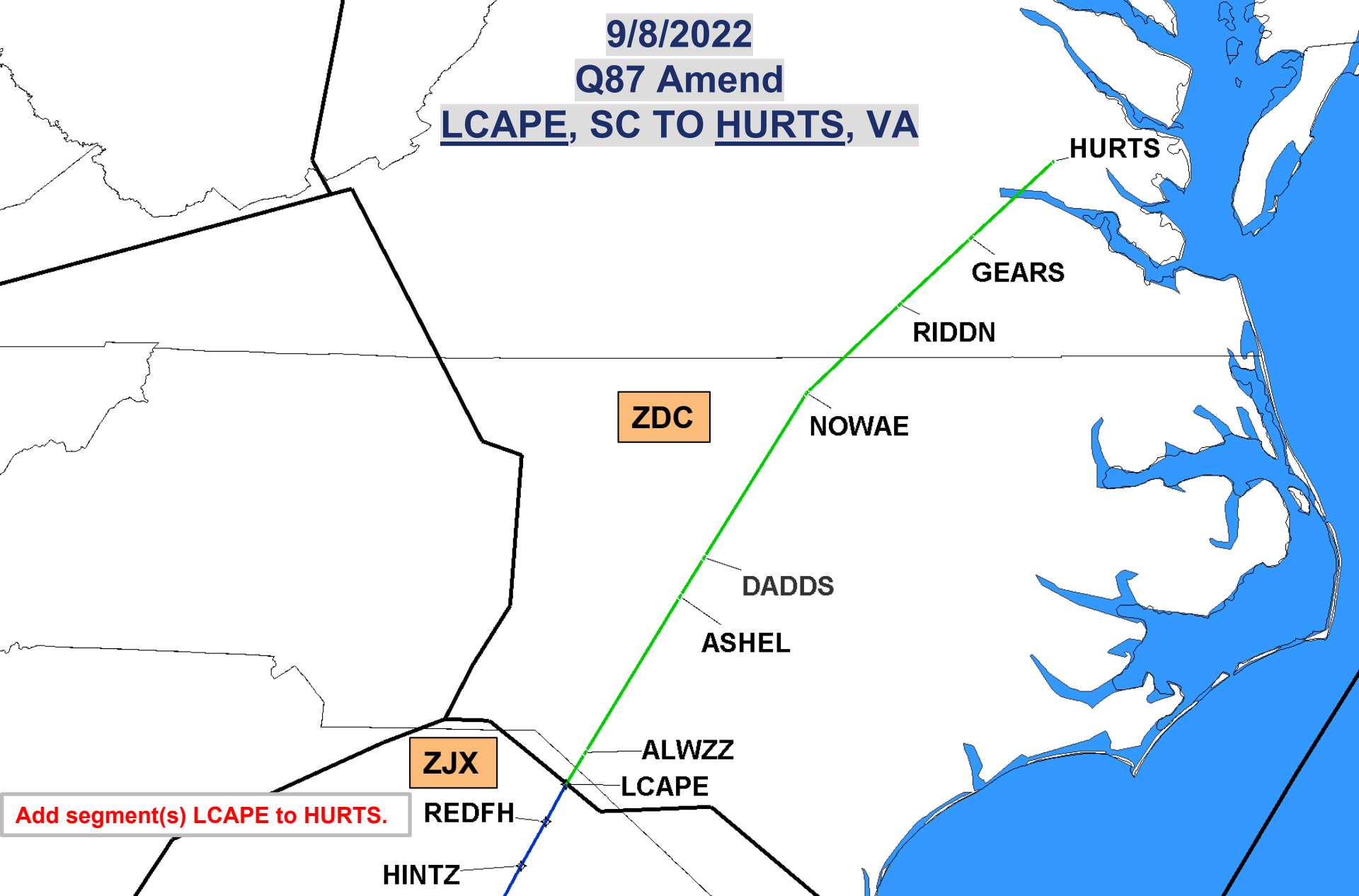
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Q87 Amend

LCAPE, SC TO HURTS, VA



Add segment(s) LCAPE to HURTS.

Implement on 11/3/2022



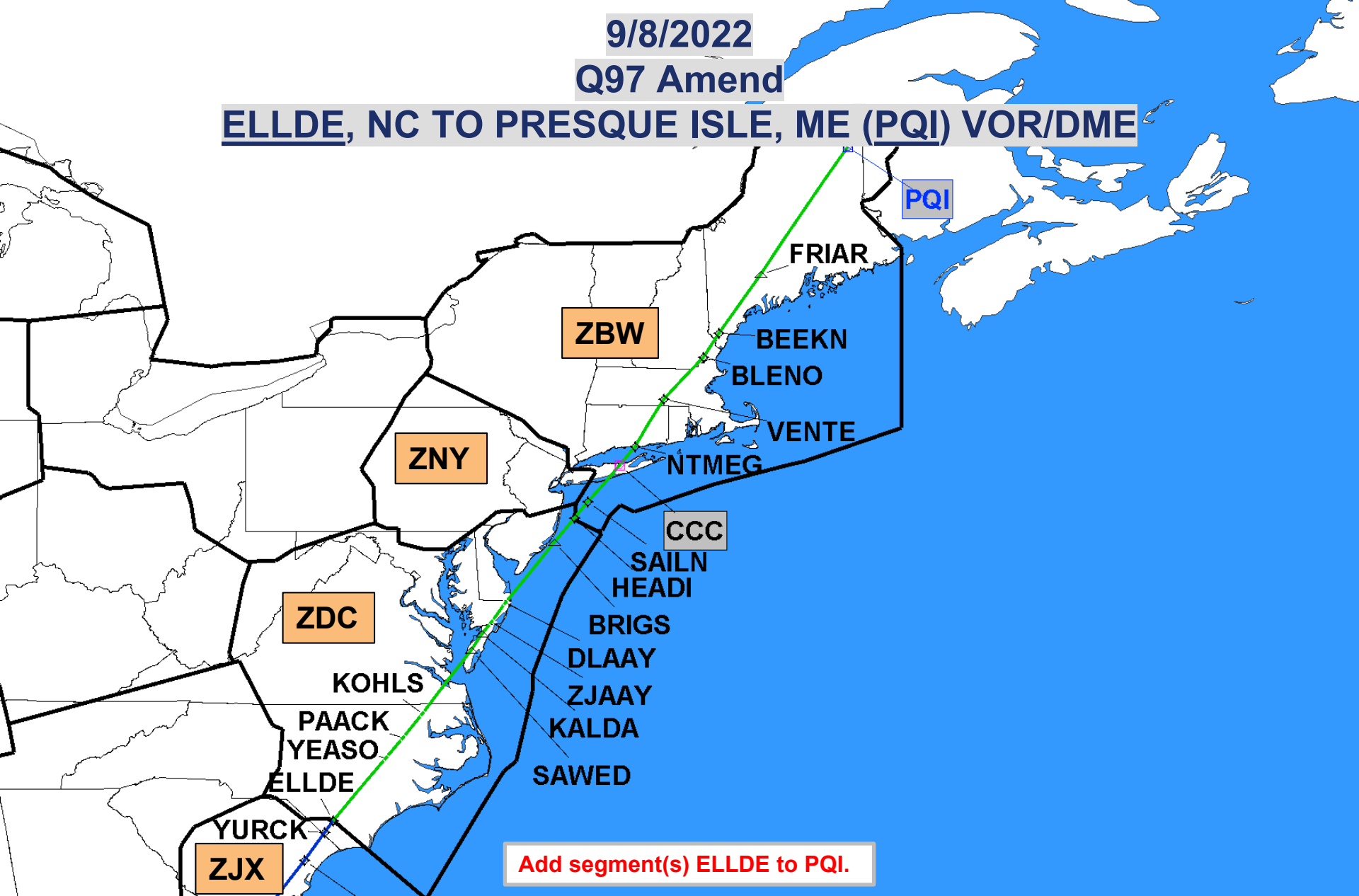
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Q97 Amend

ELLDE, NC TO PRESQUE ISLE, ME (PQI) VOR/DME



Add segment(s) ELLDE to PQI.

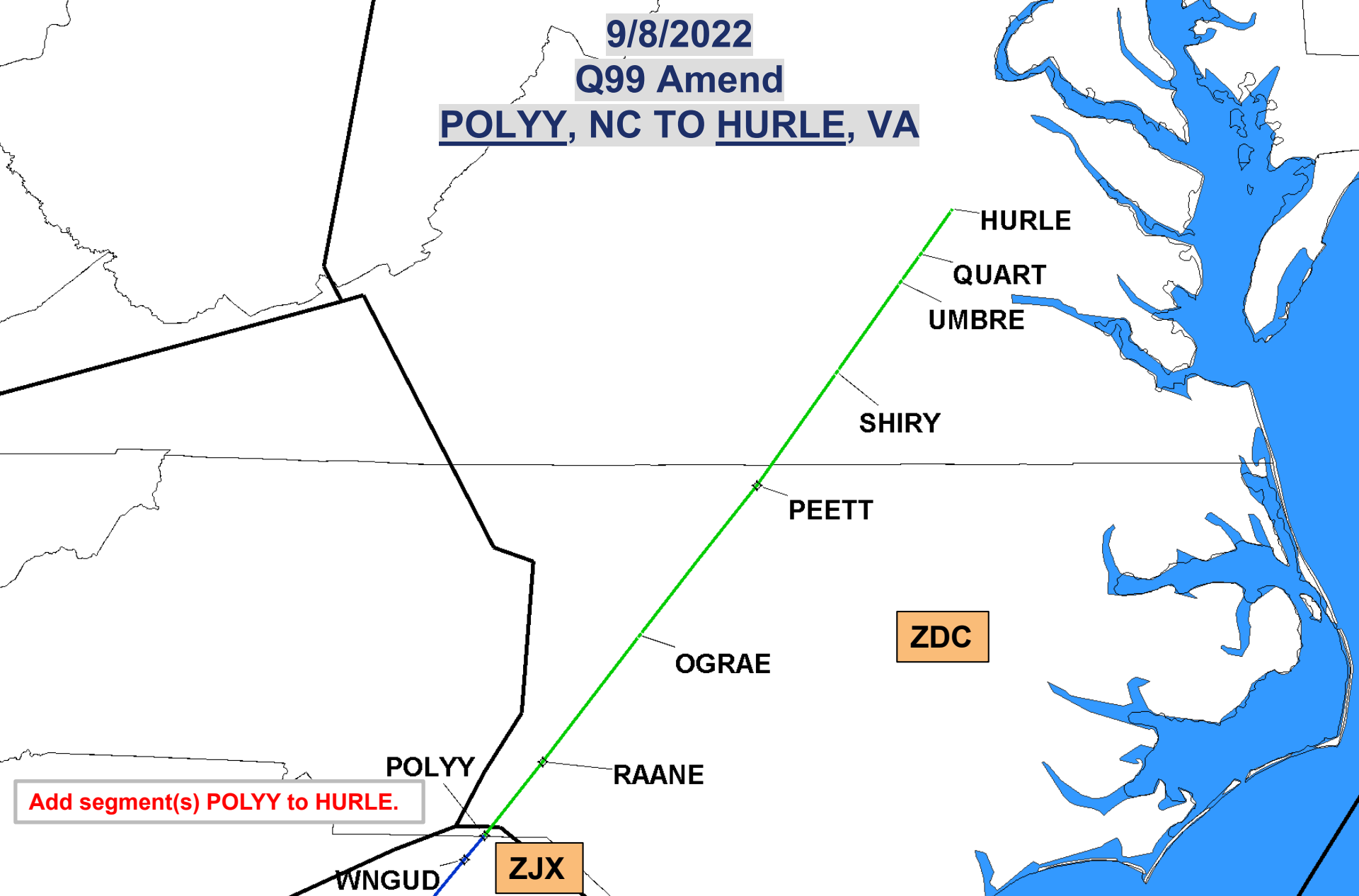
Implement on 11/3/2022



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9/8/2022
Q99 Amend
POLYY, NC TO HURLE, VA



Implement on 11/3/2022



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9/8/2022

Q101 Publish
SKARP, NC TO TUGGR, VA

**Changed to
end at
TUGGR**

ZDC

TUGGR

HYPAL

BGBRD

PRANK

SKARP

Add segment(s) SKARP to TUGGR.

Implement on 11/3/2022



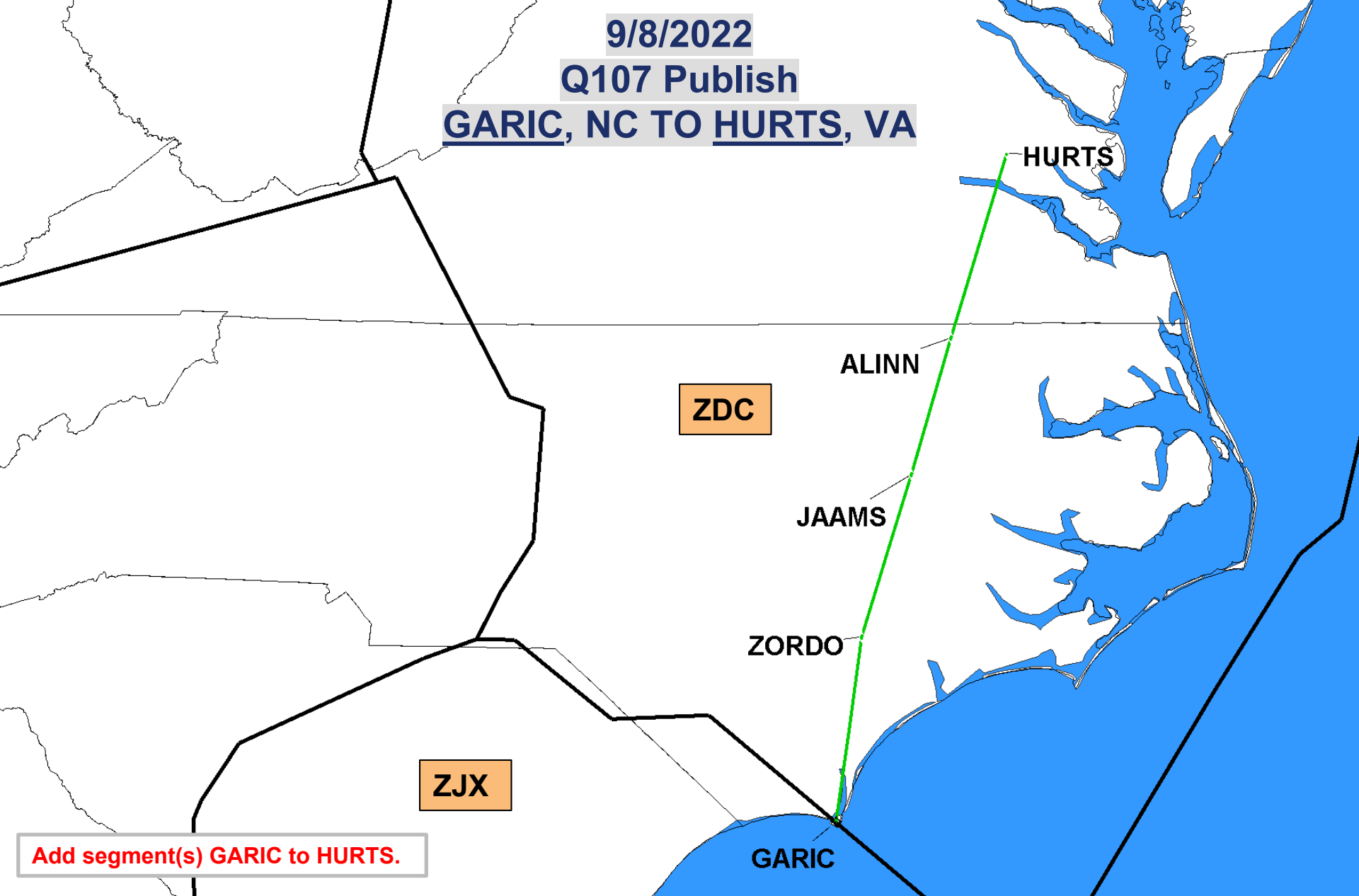
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Q107 Publish

GARIC, NC TO HURTS, VA



Add segment(s) GARIC to HURTS.

Implement on 11/3/2022



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9/8/2022

Q109 Amend

LAANA, NC DFENC, NC

DFENC

ZDC

TINKK

ZJX

Add segment(s) LAANA to DFENC.

LAANA

YURCK

Implement on 11/3/2022



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9/8/2022

Q111 Publish

ZORDO, NC TO ALXEA, VA

ZDC

ALXEA

SWNGR

GEARS

RUKRR

LARKE

ZORDO

Add segment(s) ZORDO to ALXEA.

BUDWY replaced by SWNGR on 3/8/2022.

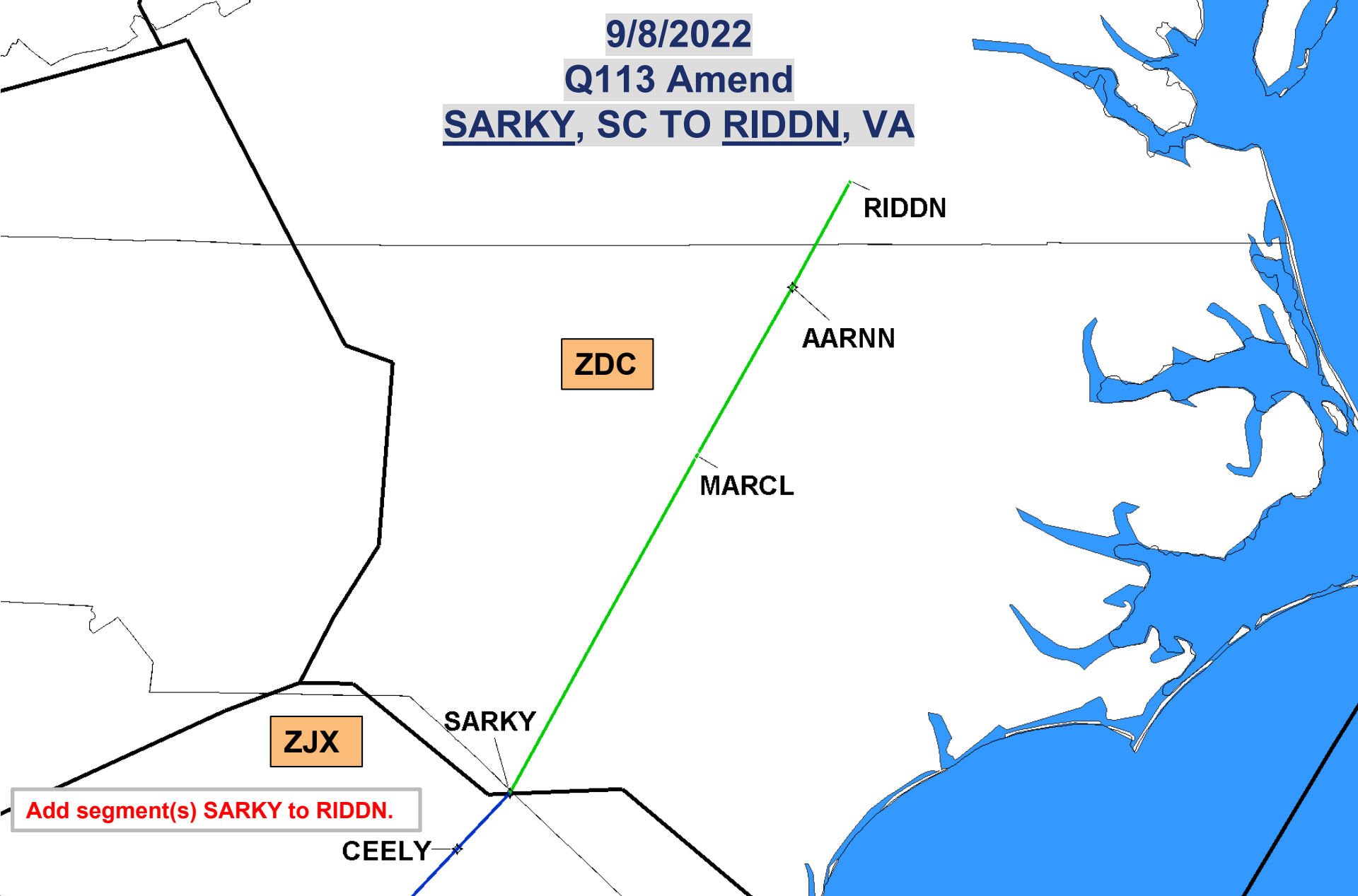
Implement on 11/3/2022



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9/8/2022
Q113 Amend
SARKY, SC TO RIDDN, VA



Implement on 11/3/2022



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9/8/2022

Q117 Publish

YLEEE, NC TO SAWED, VA

SAWED

ZDC

KTEEE

SUSSA

CUDLE

YLEEE

Add segment(s) YLEEE to SAWED.

Implement on 11/3/2022



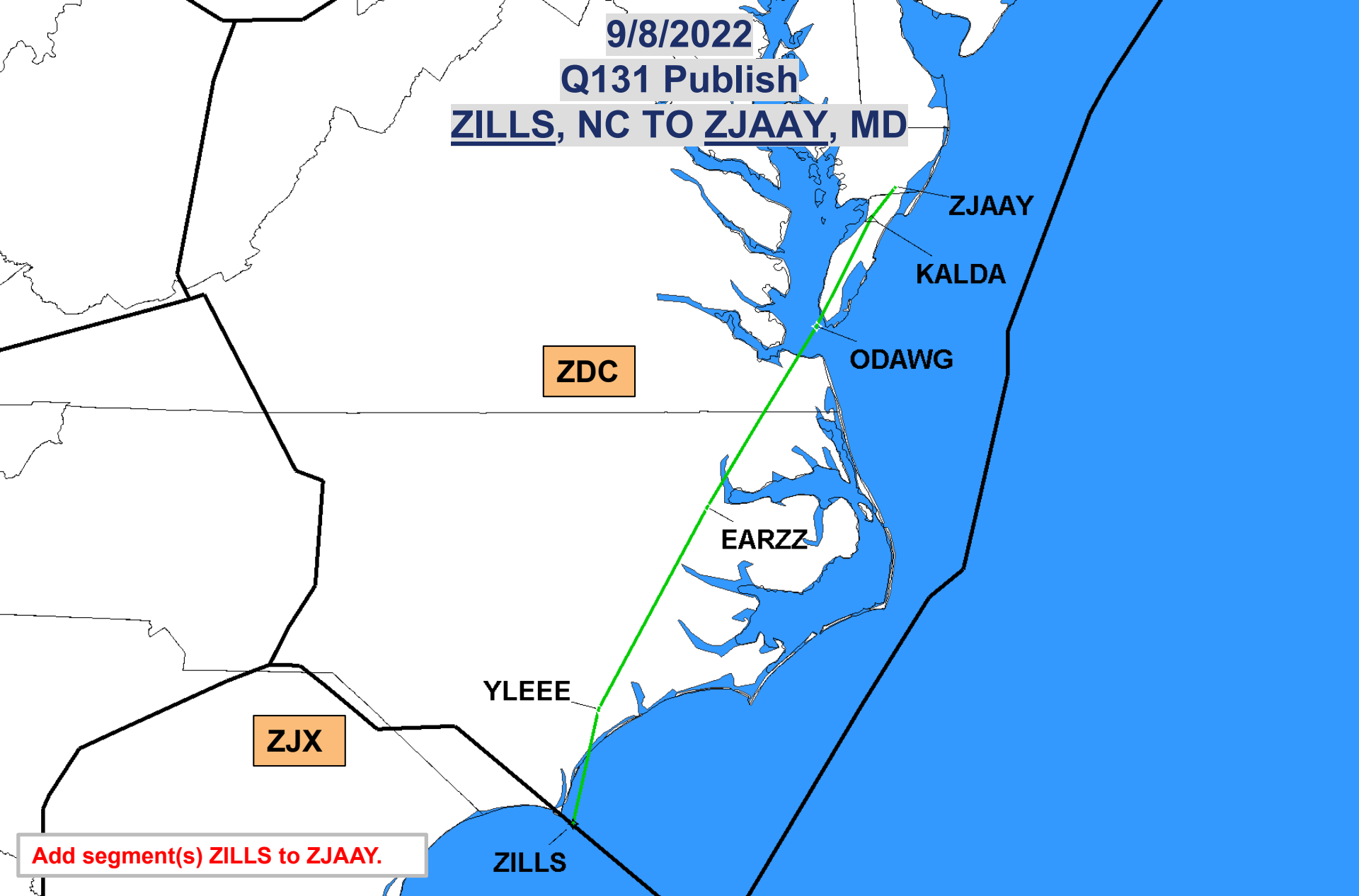
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Q131 Publish

ZILLS, NC TO ZJAAY, MD



Add segment(s) ZILLS to ZJAAY.

Implement on 11/3/2022



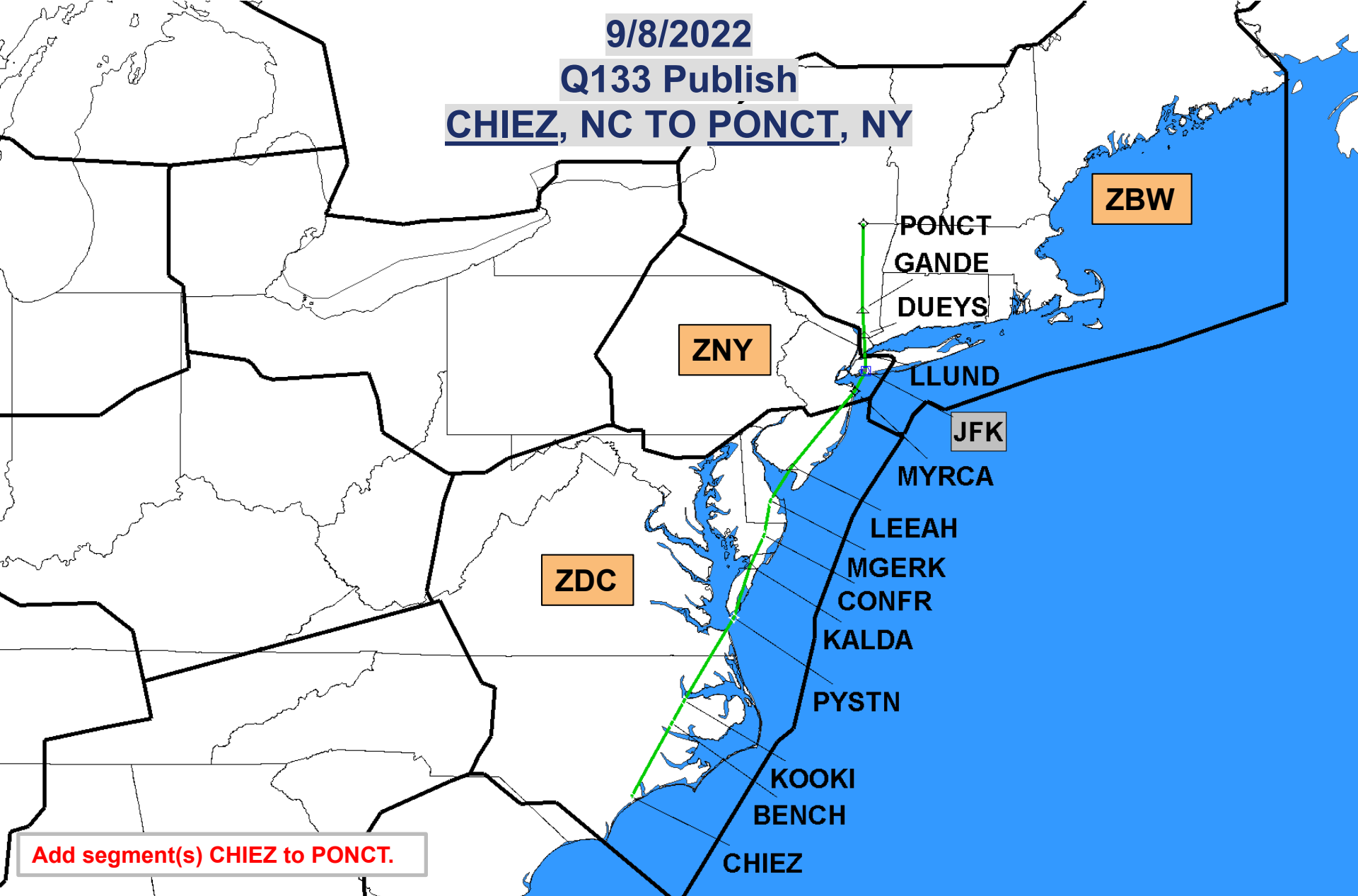
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Q133 Publish

CHIEZ, NC TO PONCT, NY



Add segment(s) CHIEZ to PONCT.

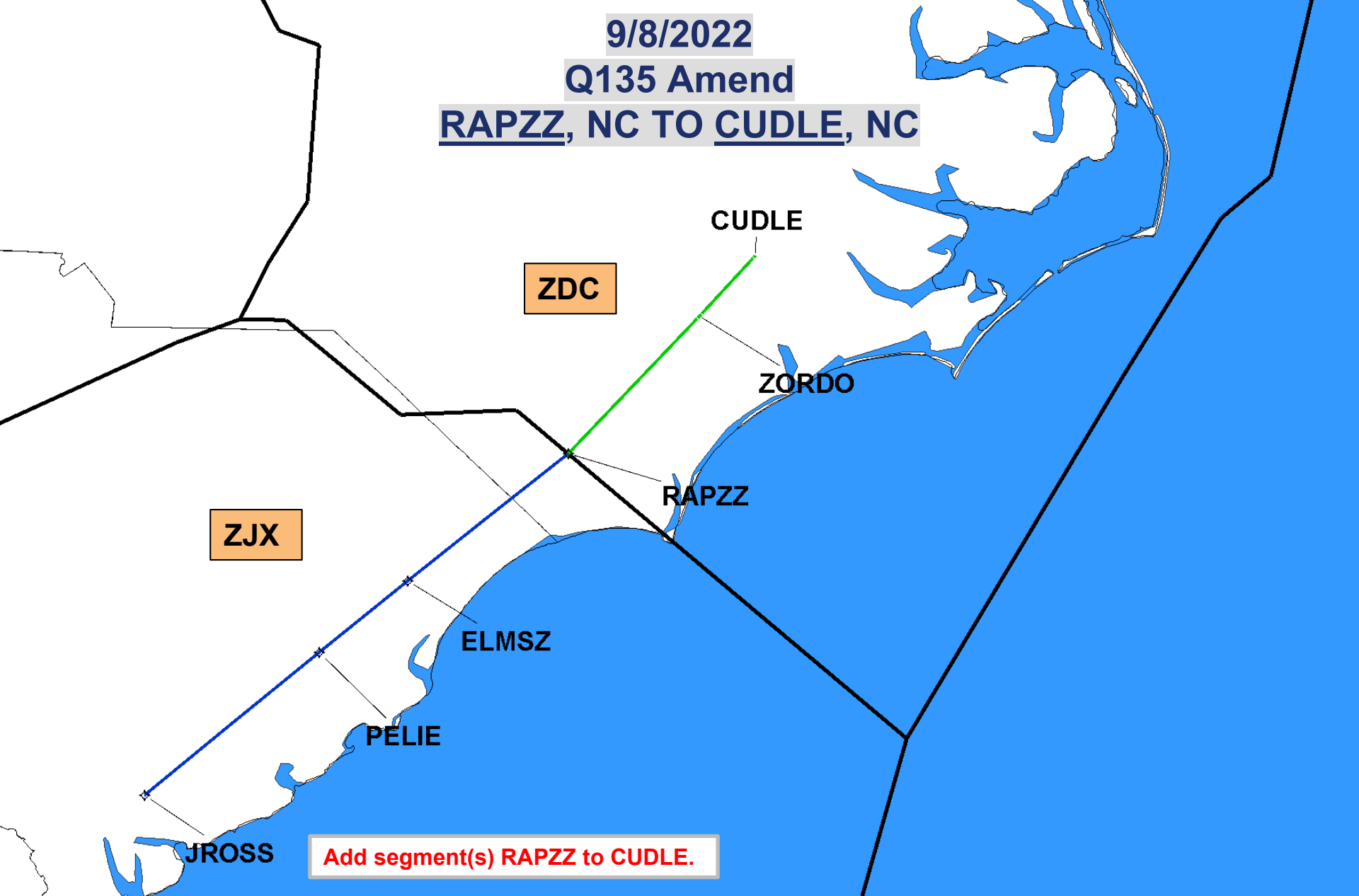
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9/8/2022
Q135 Amend
RAPZZ, NC TO CUDLE, NC



Add segment(s) RAPZZ to CUDLE.

Implement on 11/3/2022



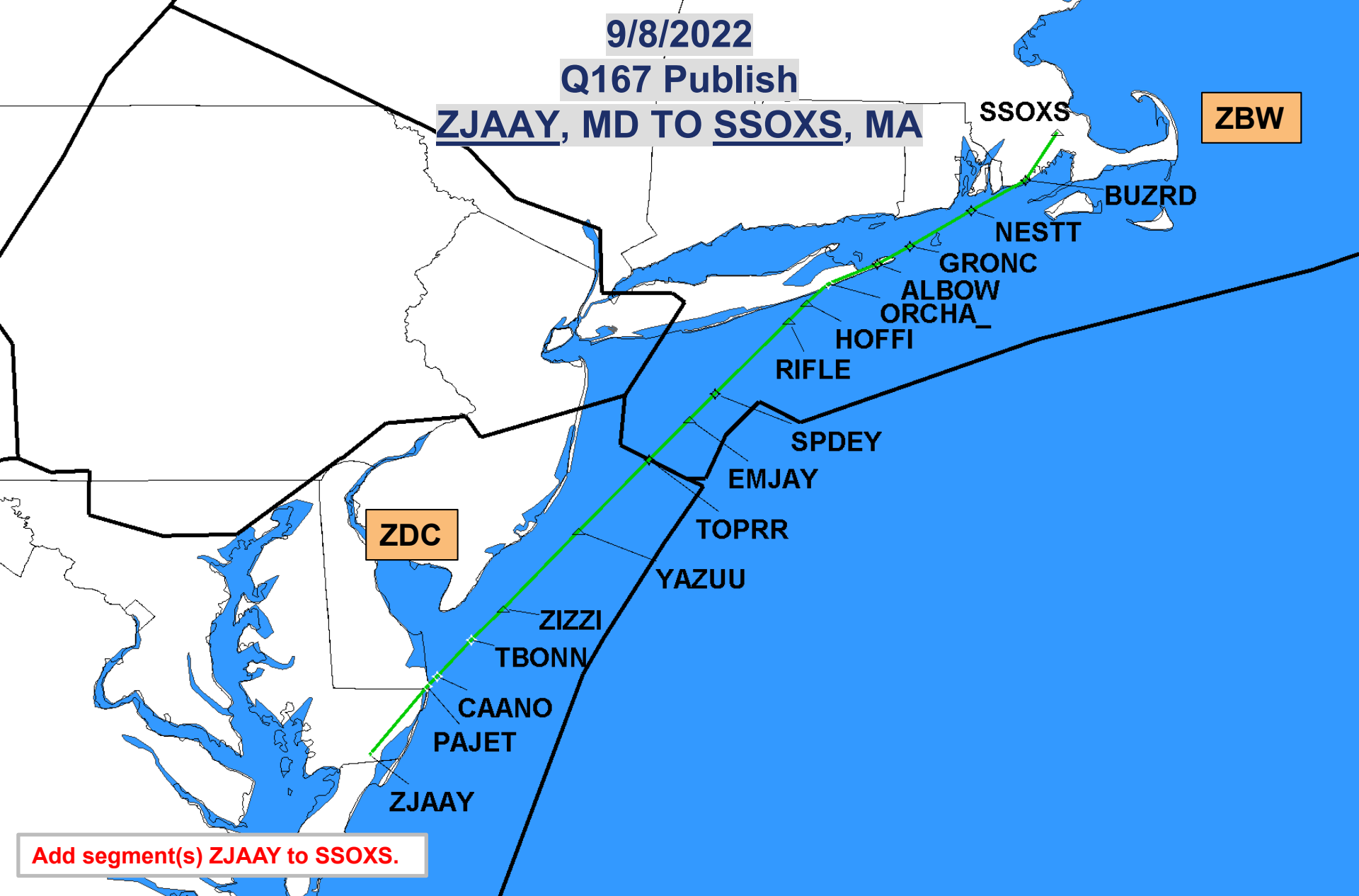
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9/8/2022

Q167 Publish

ZJAAY, MD TO SSOXS, MA



Add segment(s) ZJAAY to SSOXS.

Implement on 11/3/2022



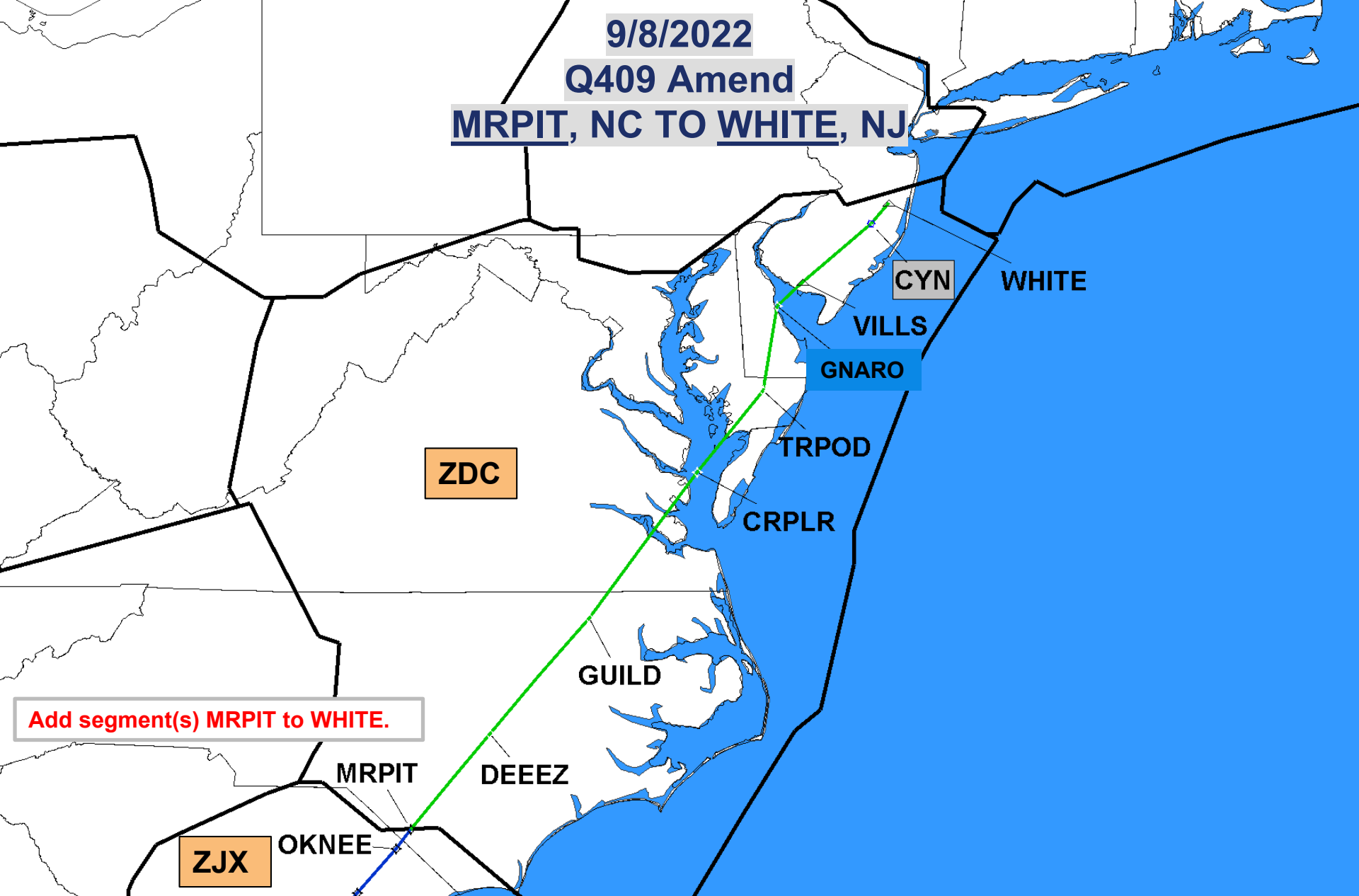
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9/8/2022

Q409 Amend

MRPIT, NC TO WHITE, NJ



Add segment(s) MRPIT to WHITE.

ZDC

ZJX

OKNEE

MRPIT

DEEEZ

GUILD

CRPLR

TRPOD

GNARO

VILLS

CYN

WHITE

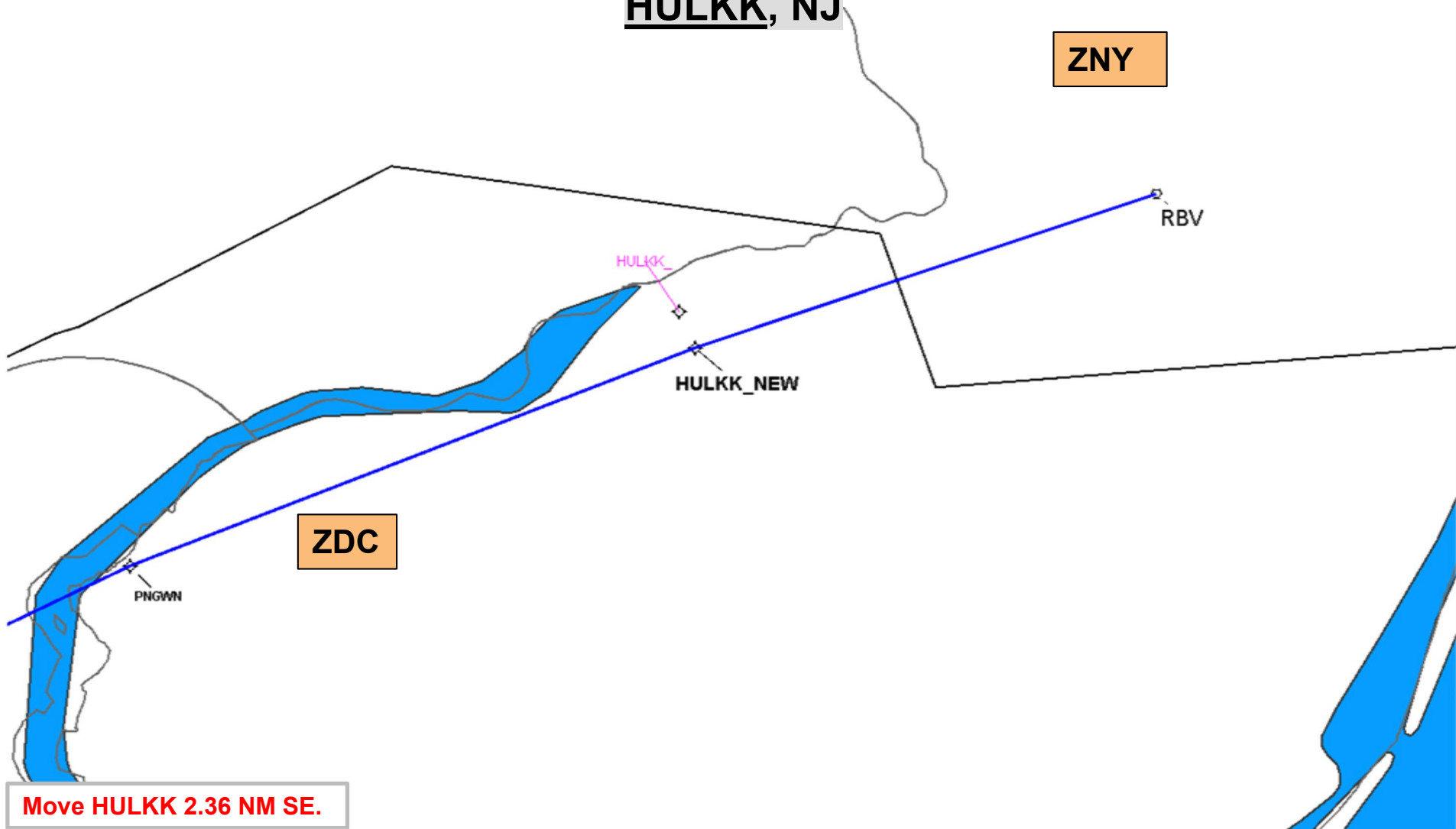
Implement on 11/3/2022



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9/8/2022
Q419 Amend
HULKK, NJ



Move HULKK 2.36 NM SE.

Implement on 9/8/2022



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9/8/2022
Q34 Amend
HITMN, TN
HULKK, NJ

ZME

HENSY

DITZL

WAKOL

HITMN

BNA

SWAPP

GHATS

FOUNT

HULKK_

HULKK_NEW

Move HULKK 2.36 NM SE.

Add HITMN between WAKOL and SWAPP.

Implement on 9/8/2022



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9/8/2022

Q445 Publish

PAACK, NC TO KYSKY, NY

ZBW

KYSKY

VALCO

SHAUP

BRIGS

AVALO

WNSTN

RADDS

CONFR

JAMIE

ZDC

PAACK

Add segment(s) PAACK to KYSKY.

Implement on 11/3/2022



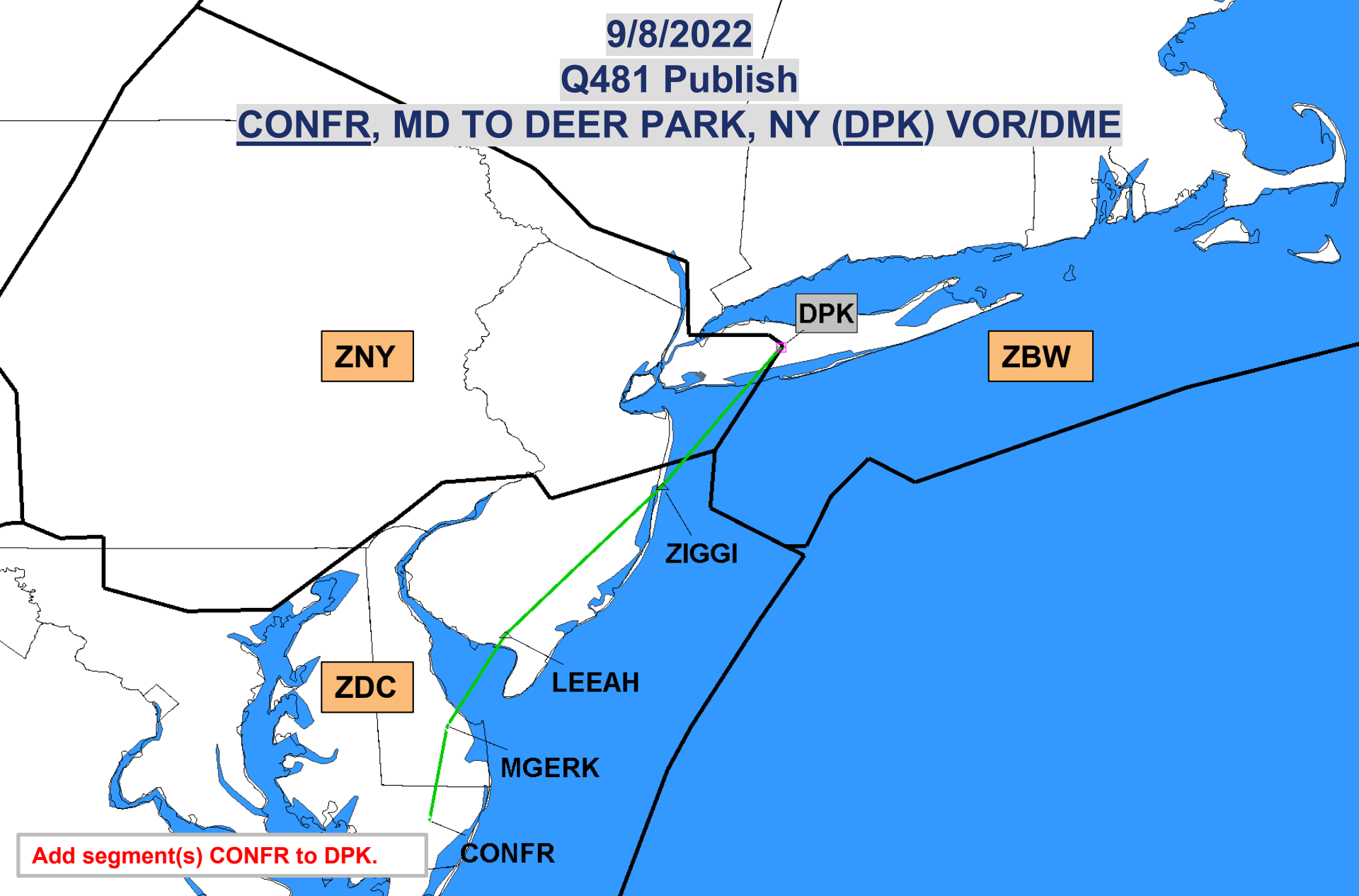
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9/8/2022

Q481 Publish

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



Add segment(s) CONFR to DPK.

Implement on 11/3/2022



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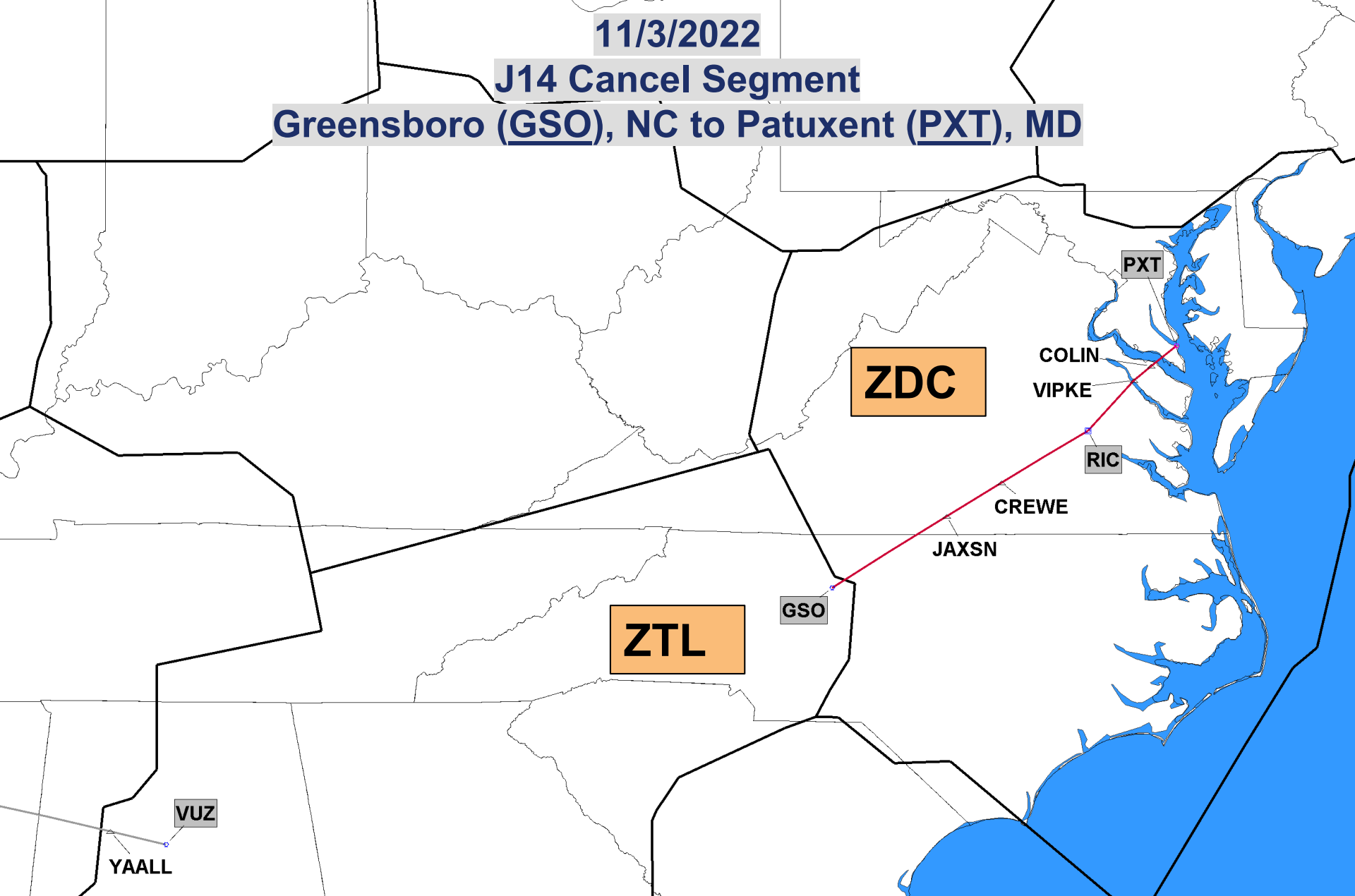
Changes Effective 11/3/2022

- **11/3/2022 Cancel NA NOTAMs & Implement Q/Y-Routes**
 - Includes cancellation of NA NOTAMs for Y289, Y299
- **11/3/2022 (21) J-Route/Q-Route Deletions/Amendments**
 - Delete (15) J37, J55, J79, J121, J165, J174, J191, J207, J209, J506, J561, J563, J573, J582, J585
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 - Publish New LGA PROUD1 STAR
- **12/29/2022 (2) STARs**
 - Delete (2) STARs: LGA (KORRY4), EWR (DYLIN4)



11/3/2022

J14 Cancel Segment Greensboro (GSO), NC to Patuxent (PXT), MD



Red Segment Being Deleted

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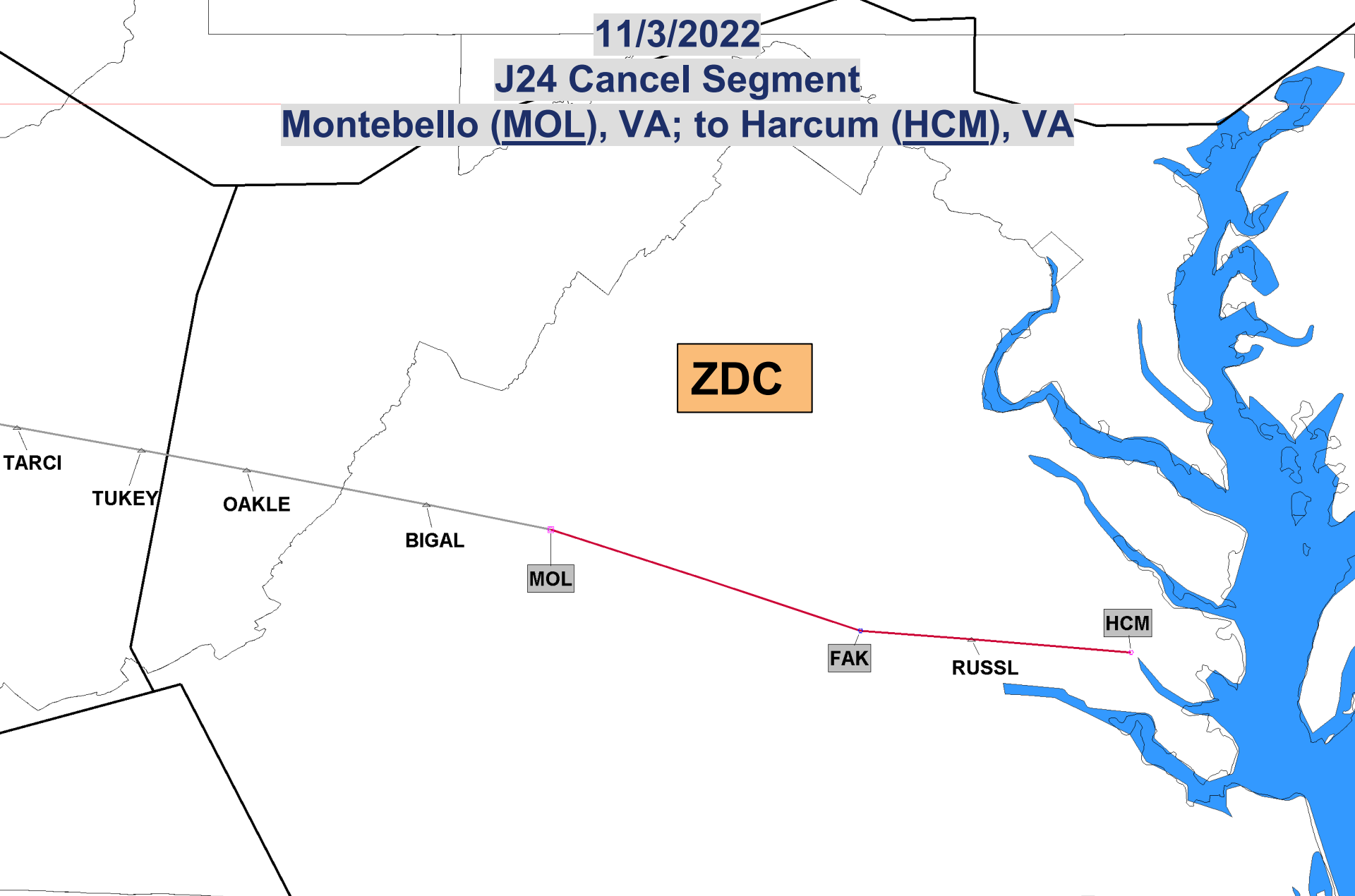


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11/3/2022

J24 Cancel Segment
Montebello (MOL), VA; to Harcum (HCM), VA



Red Segment Being Deleted

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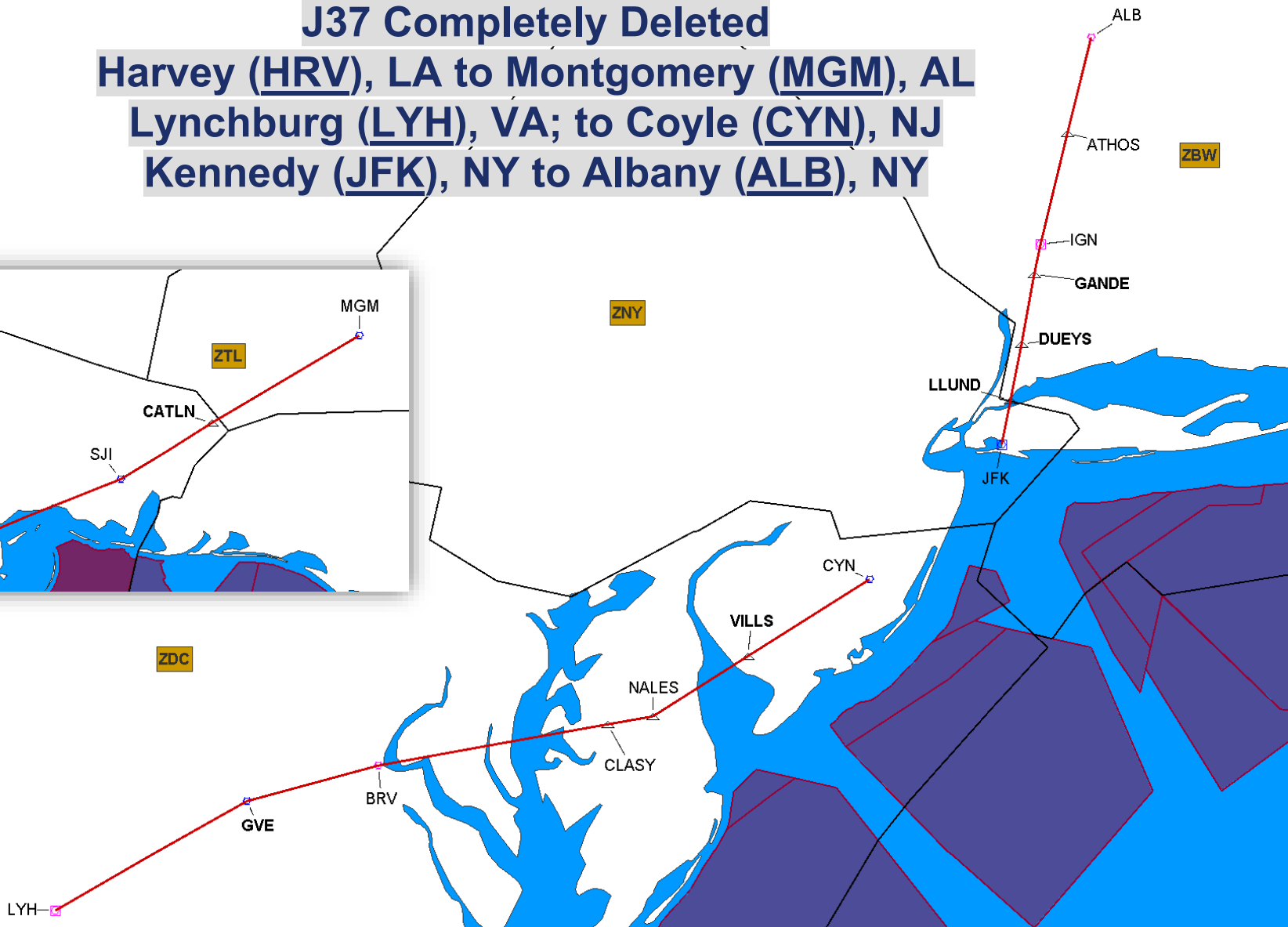
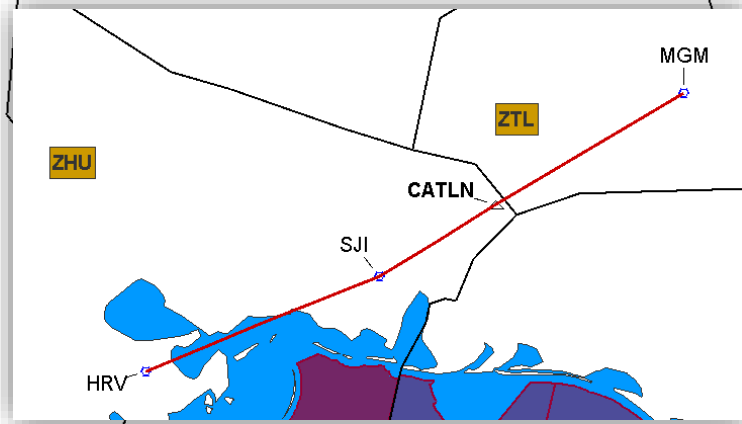
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11/3/2022

J37 Completely Deleted

Harvey (HRV), LA to Montgomery (MGM), AL
Lynchburg (LYH), VA; to Coyle (CYN), NJ
Kennedy (JFK), NY to Albany (ALB), NY



J-Route Deleted in its Entirety

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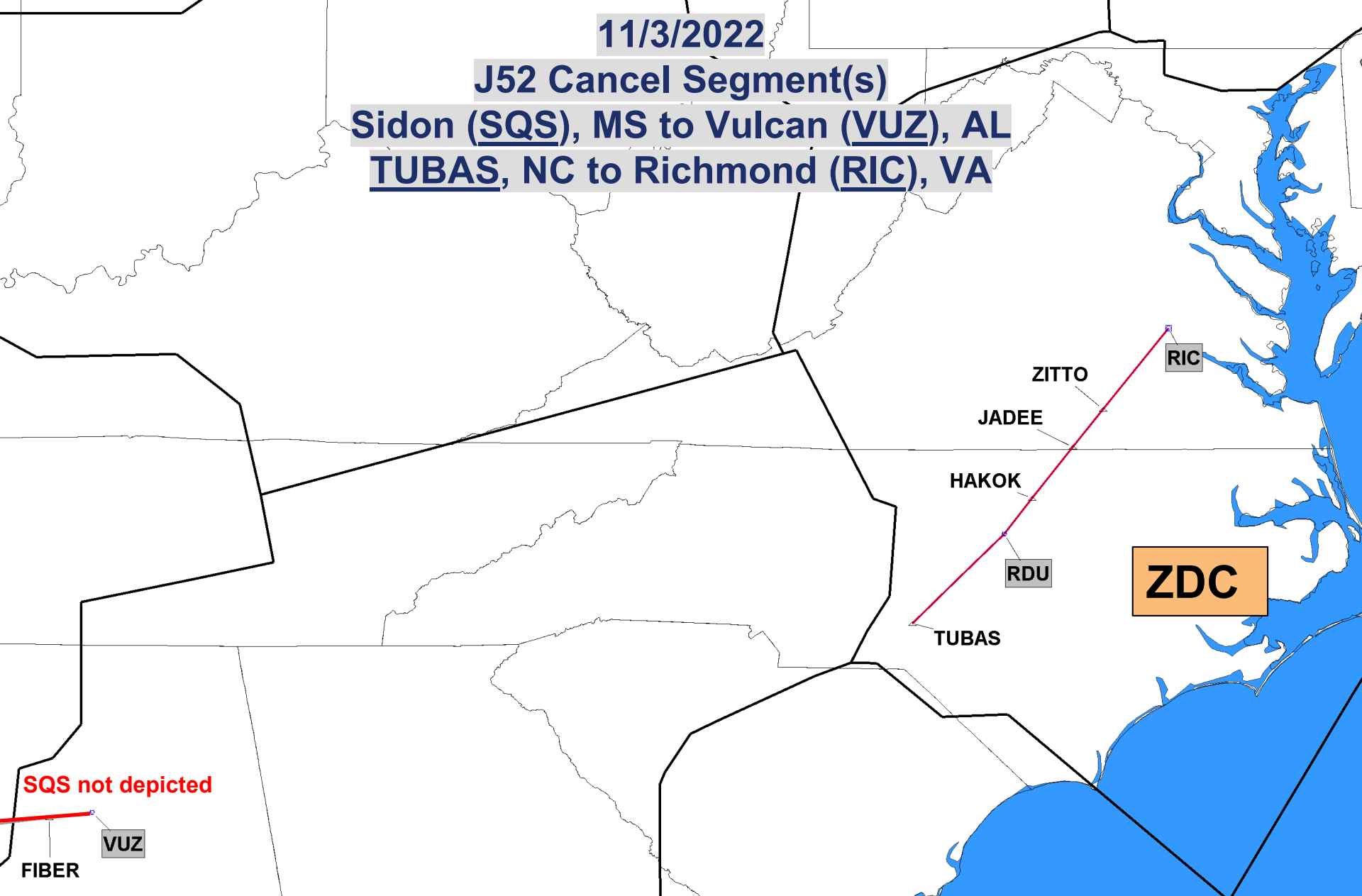


Federal Aviation
Administration



11/3/2022

J52 Cancel Segment(s)
Sidon (SQS), MS to Vulcan (VUZ), AL
TUBAS, NC to Richmond (RIC), VA



SQS not depicted

FIBER

VUZ

ZDC

RIC

ZITTO

JADEE

HAKOK

RDU

TUBAS

Red Segment Being Deleted

Click to Return to Index

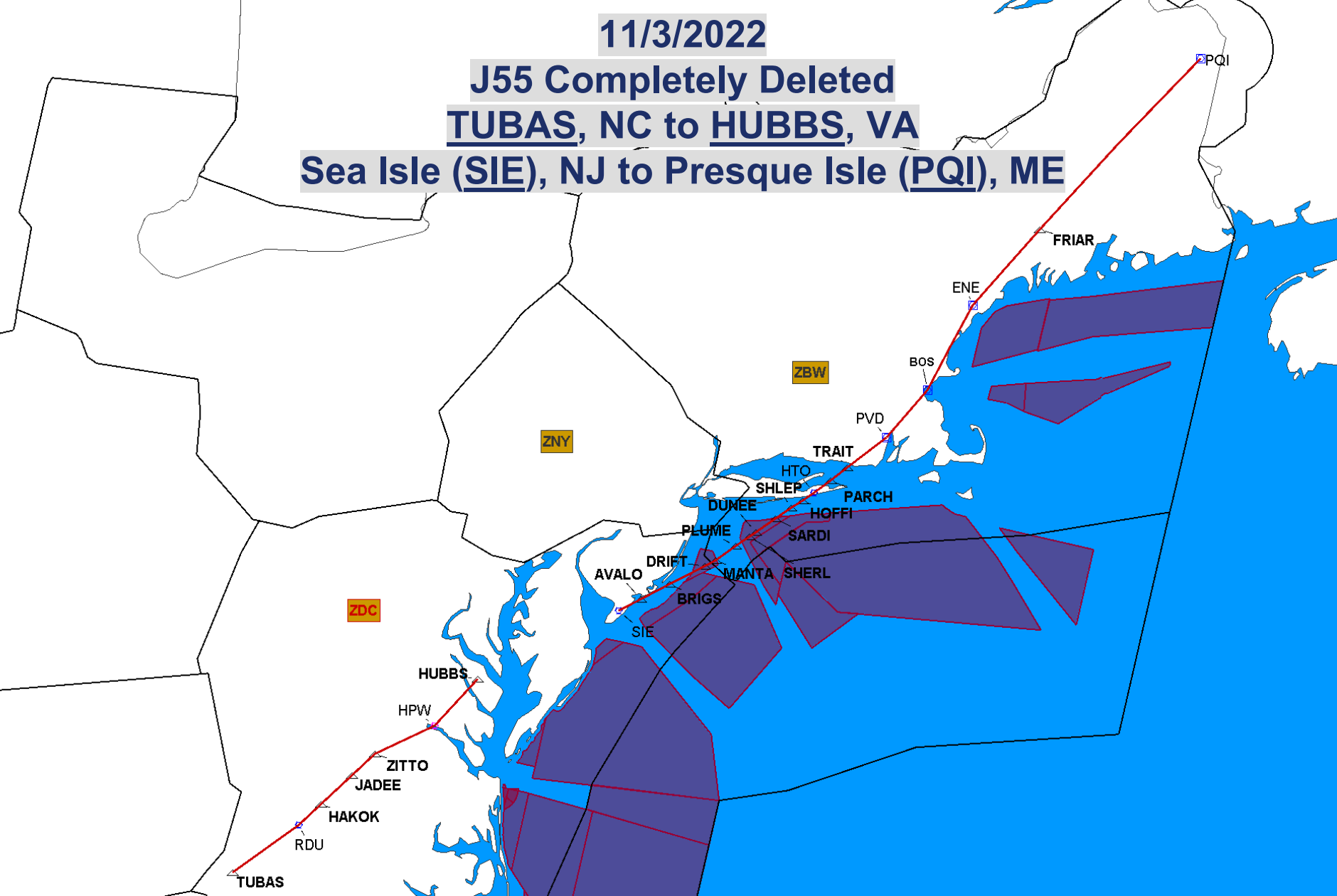


**Federal Aviation
Administration**



11/3/2022

J55 Completely Deleted
TUBAS, NC to HUBBS, VA
Sea Isle (SIE), NJ to Presque Isle (PQI), ME



J-Route Deleted in its Entirety

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Federal Aviation
Administration



11/3/2022

J68 Cancel Segment

Hancock (HNK), NY to Nantucket (ACK), MA



Red Segment Being Deleted

Click to Return to Index

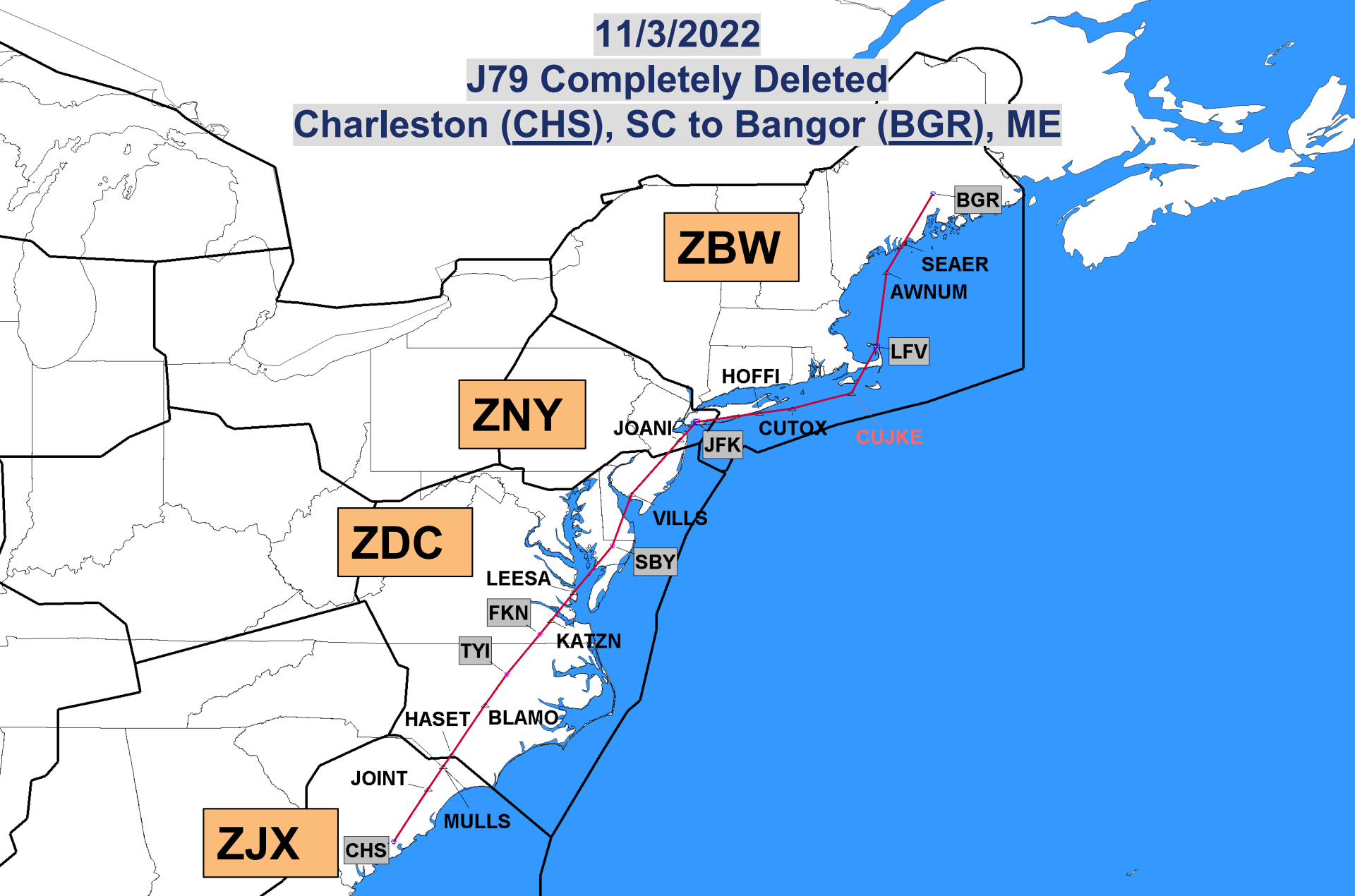


Federal Aviation
Administration



11/3/2022

J79 Completely Deleted Charleston (CHS), SC to Bangor (BGR), ME



J-Route Deleted in its Entirety

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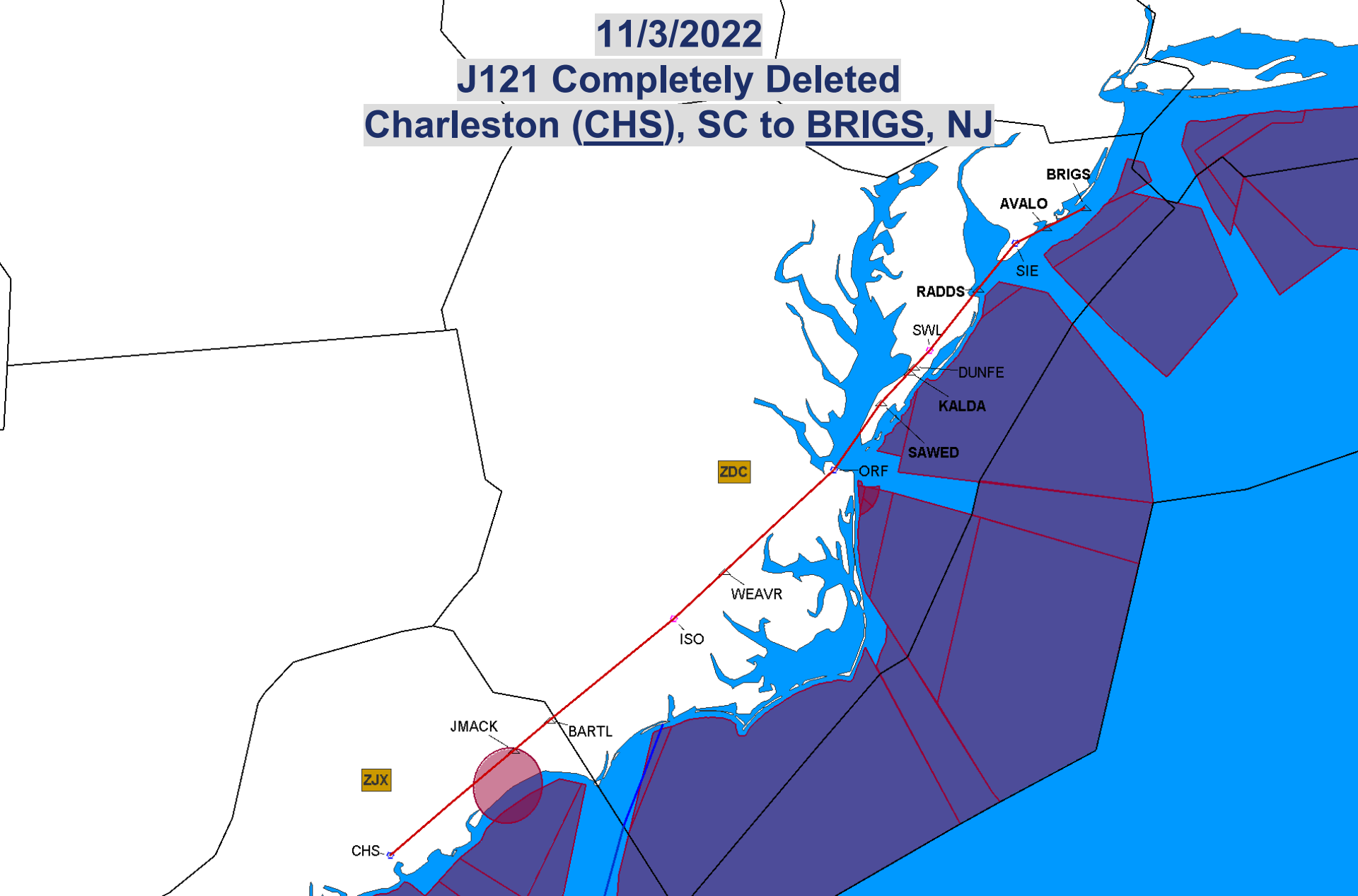


Federal Aviation
Administration



11/3/2022

J121 Completely Deleted Charleston (CHS), SC to BRIGS, NJ



J-Route Deleted in its Entirety

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Federal Aviation
Administration



11/3/2022

J165 Completely Deleted
DWYTE, SC to Richmond (RIC), VA

ZDC

RIC

NKKIE

DWYTE

ZJX

Delete entire route.

J-Route Deleted in its Entirety

Click to Return to Index

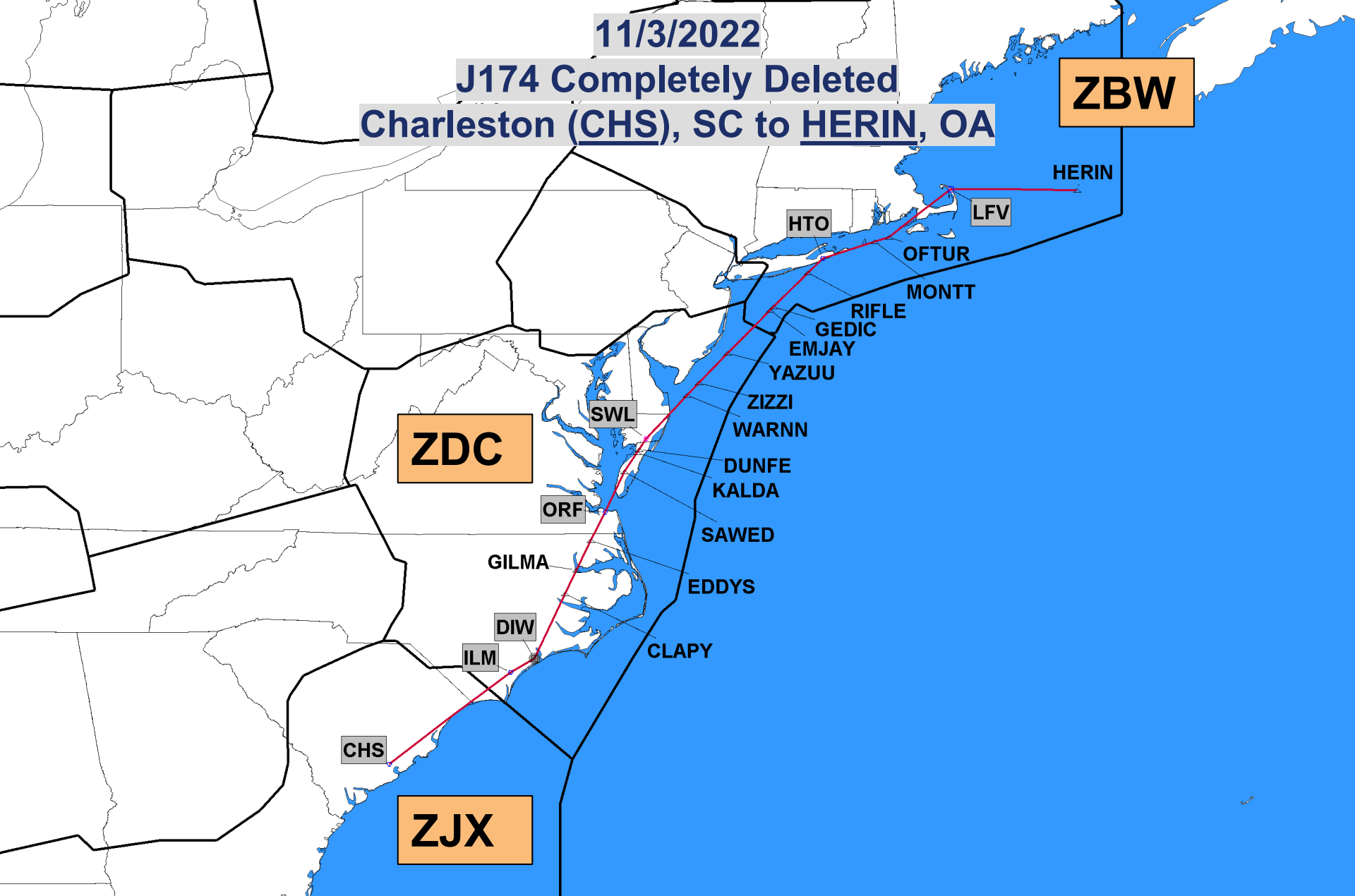


Federal Aviation
Administration



11/3/2022

J174 Completely Deleted Charleston (CHS), SC to HERIN, OA



J-Route Deleted in its Entirety

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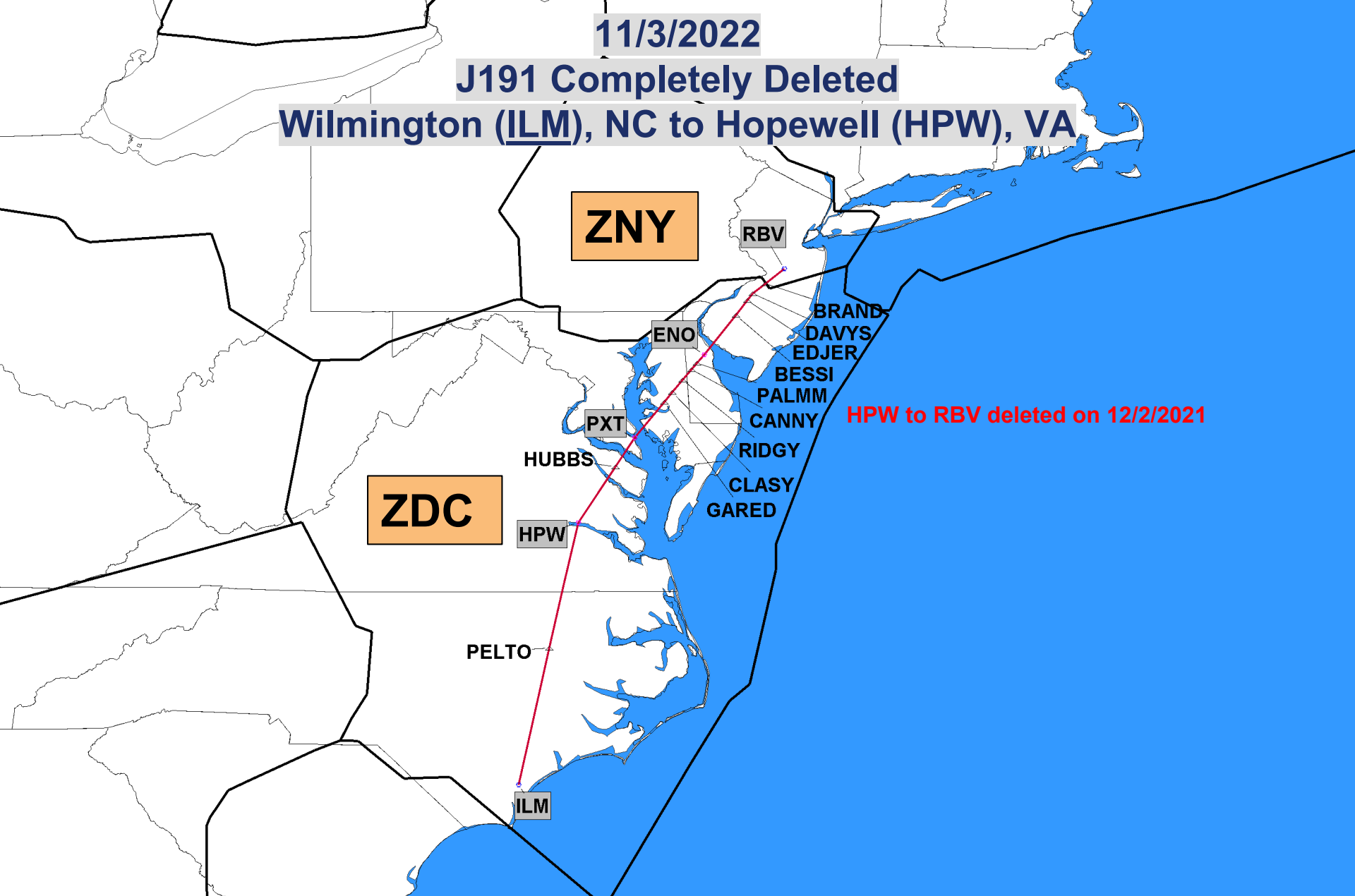


Federal Aviation
Administration



11/3/2022

J191 Completely Deleted Wilmington (ILM), NC to Hopewell (HPW), VA



J-Route Deleted in its Entirety

[Click to Return to Index](#)

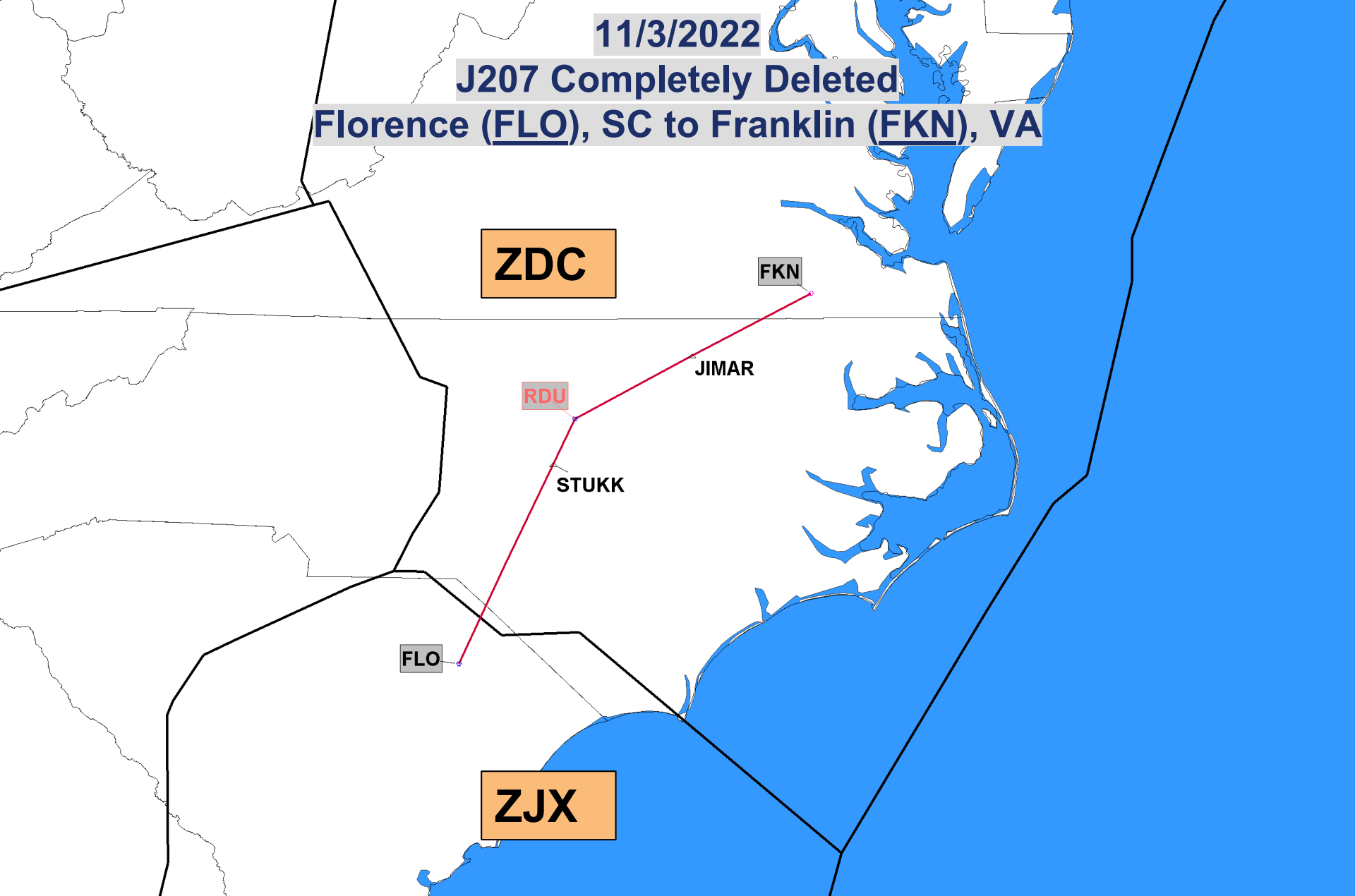


Federal Aviation
Administration



11/3/2022

J207 Completely Deleted Florence (FLO), SC to Franklin (FKN), VA



J-Route Deleted in its Entirety

[Click to Return to Index](#)

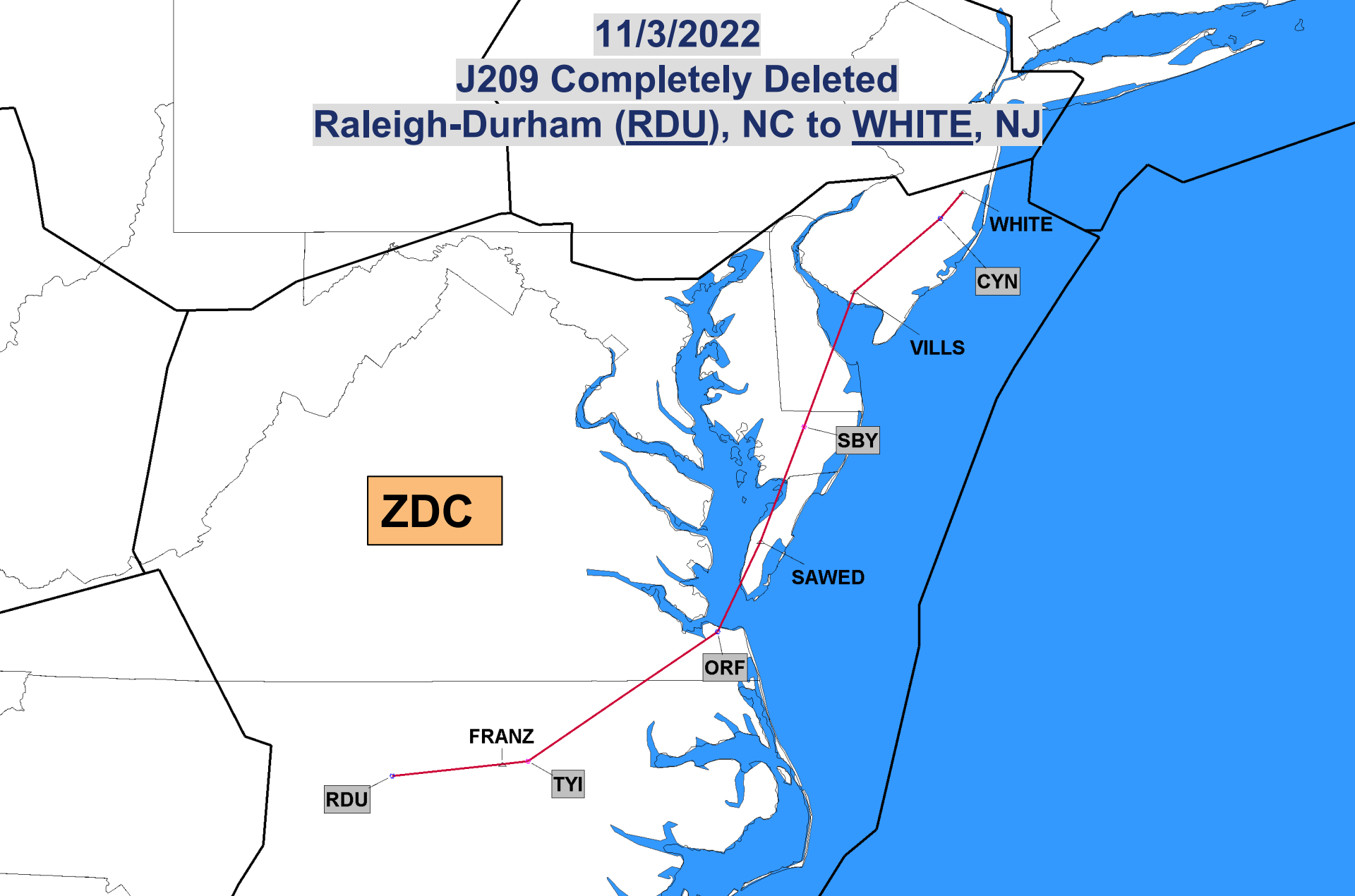


Federal Aviation
Administration



11/3/2022

J209 Completely Deleted
Raleigh-Durham (RDU), NC to WHITE, NJ



J-Route Deleted in its Entirety

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Federal Aviation
Administration



11/3/2022

J506 Completely Deleted
Millinocket (MLT), to ME TOPPS, ME/AJGUB

ZBW

MLT

TOPPS

AJGUB

J-Route Deleted in its Entirety

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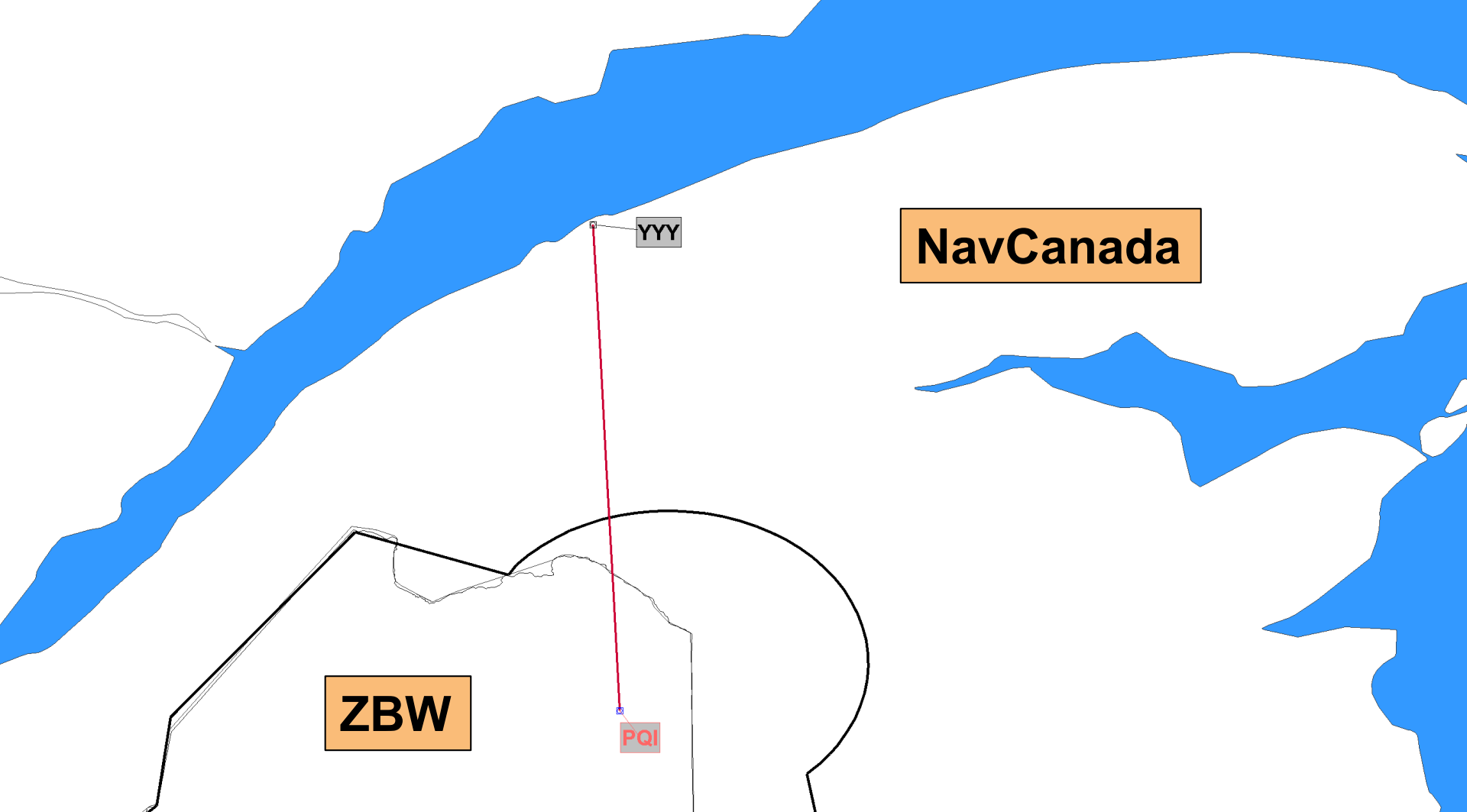
Federal Aviation
Administration



11/3/2022

J561 Completely Deleted

Presque Isle (PQI), ME to Mont Joli (YYY), PQ, Canada



J-Route Deleted in its Entirety

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Federal Aviation
Administration



11/3/3022

J563 Completely Deleted Albany (ALB), NY to Sherbrook (YSC), PQ, Canada

NavCanada

YSC

COVAN

ZBW

LAMED

ALB

J-Route Deleted in its Entirety

Click to Return to Index

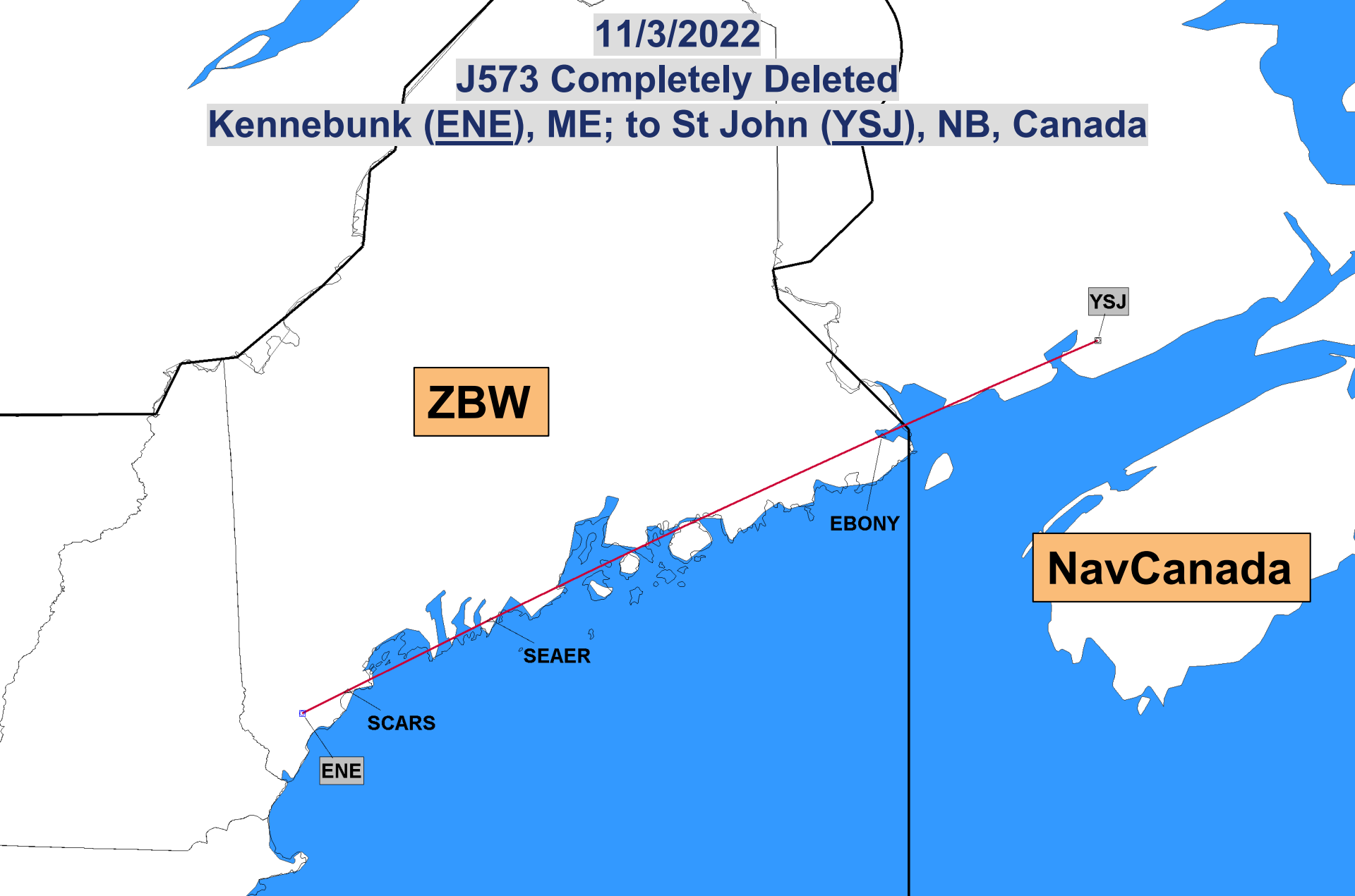


Federal Aviation
Administration



11/3/2022

J573 Completely Deleted Kennebunk (ENE), ME; to St John (YSJ), NB, Canada



J-Route Deleted in its Entirety

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Federal Aviation
Administration



11/3/2022

J582 Completely Deleted

Presque Isle (PQI), ME to Sept Isle (YZV), PQ, Canada

NavCanada

YZV

PQI

ZBW

J-Route Deleted in its Entirety

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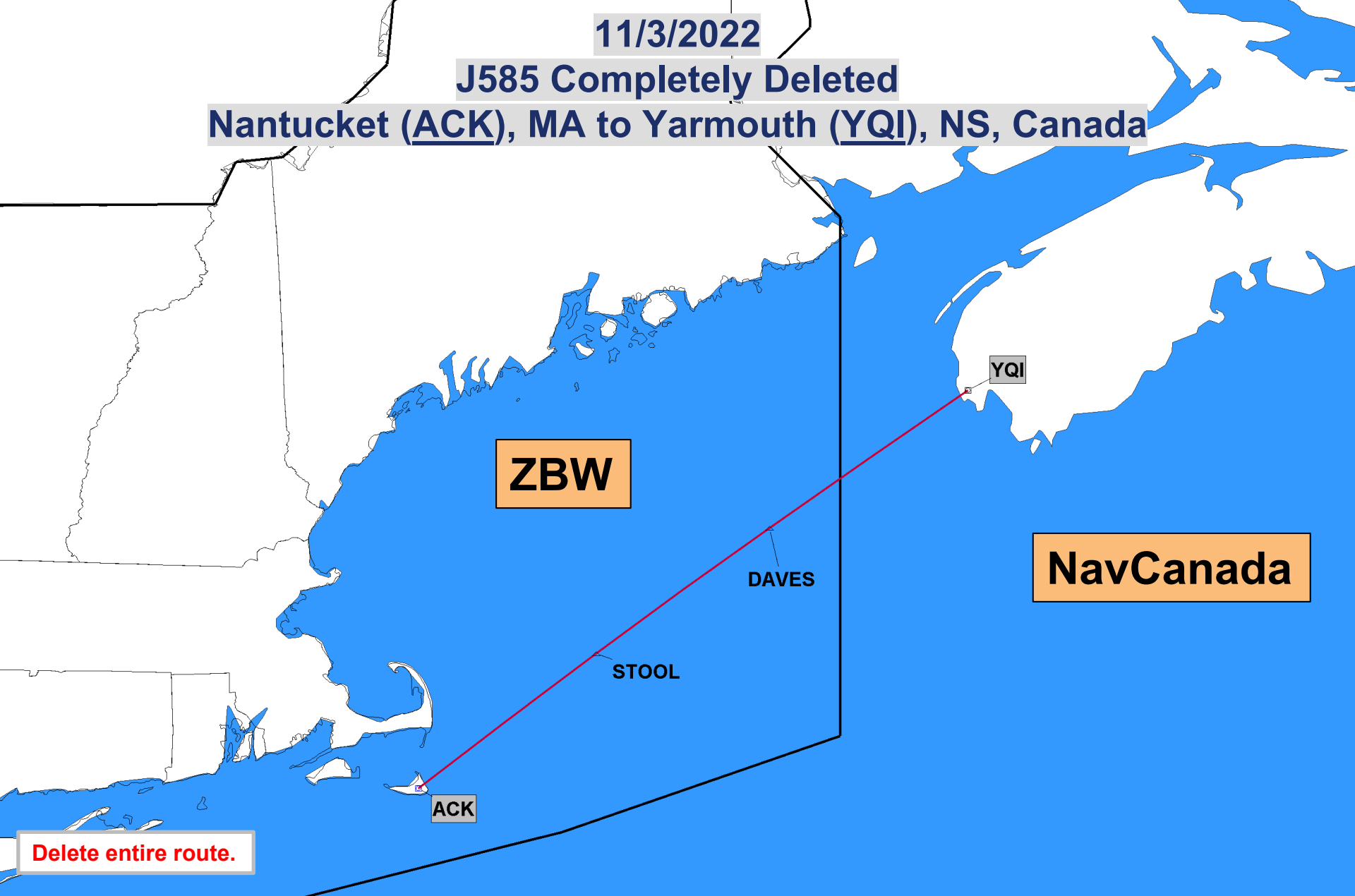


Federal Aviation
Administration



11/3/2022

J585 Completely Deleted Nantucket (ACK), MA to Yarmouth (YQI), NS, Canada



Delete entire route.

J-Route Deleted in its Entirety

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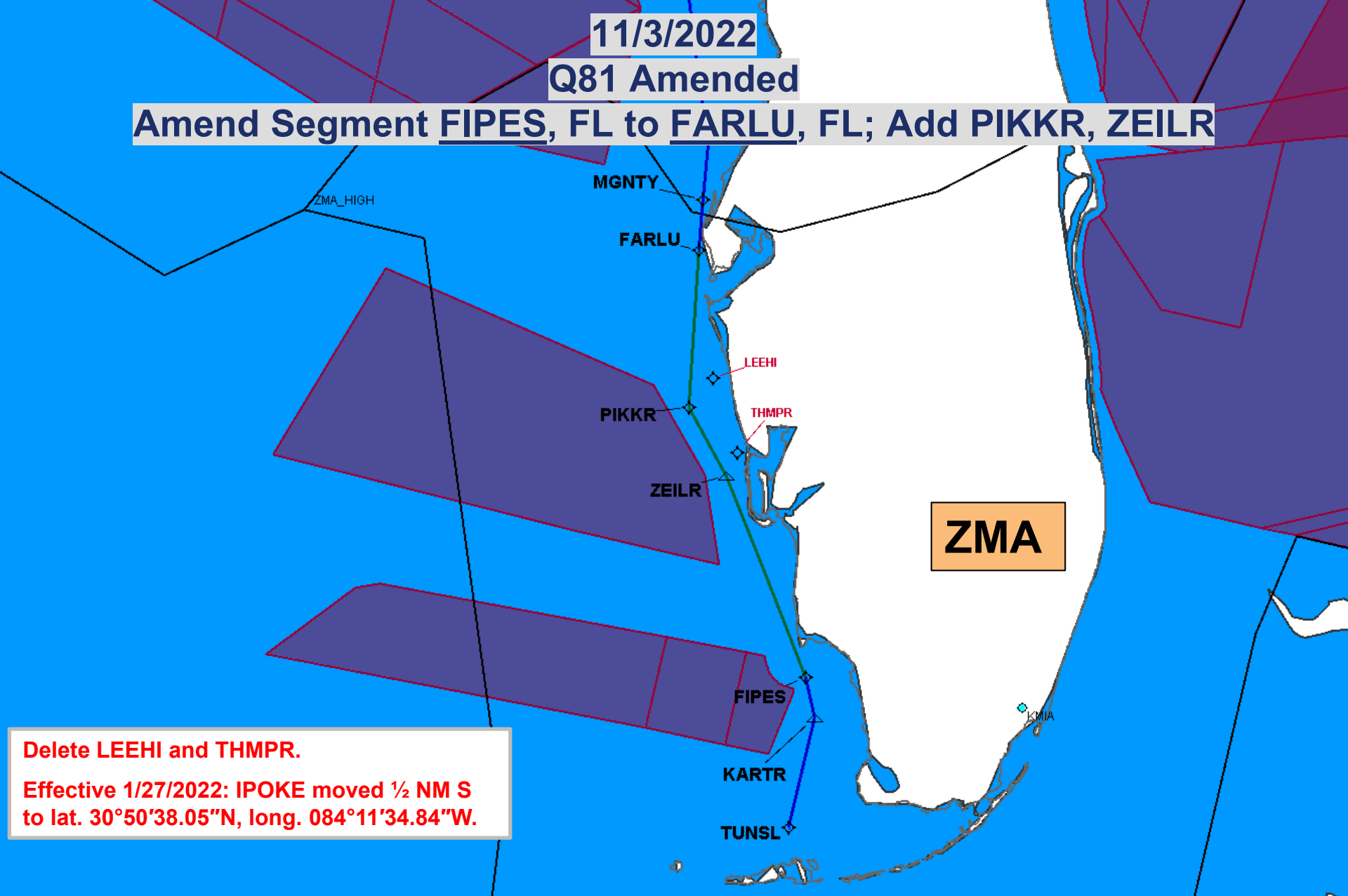
Federal Aviation
Administration



11/3/2022

Q81 Amended

Amend Segment FIPES, FL to FARLU, FL; Add PIKKR, ZEILR



Delete LEEHI and THMPR.

Effective 1/27/2022: IPOKE moved ½ NM S
to lat. 30°50'38.05"N, long. 084°11'34.84"W.

Implement on 11/3/2022

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Federal Aviation
Administration



11/3/2022

Q947 Completely Deleted CFQDV, ME to CUZWA, ME



Q-Route Deleted in its Entirety

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Federal Aviation
Administration



Post-Implementation Changes Effective 2023

- **2/23/2023**
 - Amend (1) Q437
 - Publish (1) New Q141
- **4/20/2023**
 - Amend (1) Q101



Federal Aviation
Administration



2/23/2023
Q141 Publish
HOUKY, TO GNARO,

NEW ROUTE: HOUKY TAPPA HYTRA BLNTN NALES GNARO

Add segment(s) HOUKY to GNARO



Federal Aviation
Administration



2/23/2023

Q437 Amend

Delete LLUND, TO SLANG,

NEW ROUTE: VILLS DITCH LUIGI HNNAH LLUND

Delete segment(s) LLUND to SLANG



Federal Aviation
Administration



4/20/2023
Q101 Amend
TUGGR, TO KALDA,

NEW ROUTE: SKARP PRANK BGBRD HYPAL TUGGR KALDA

Add segment(s) TUGGR to KALDA



Federal Aviation
Administration

