

# NOPAC ORIGINAL ROUTES

## NOPAC Redesign Project

R-228

R-280

R-290

R-295

R-298

# NOPAC REDESIGN PHASE 2

Implemented January 25, 2024

- R220, M523 and R580 From FL340 through FL400 requires:
- RNP4
- RCP240
- RSP180

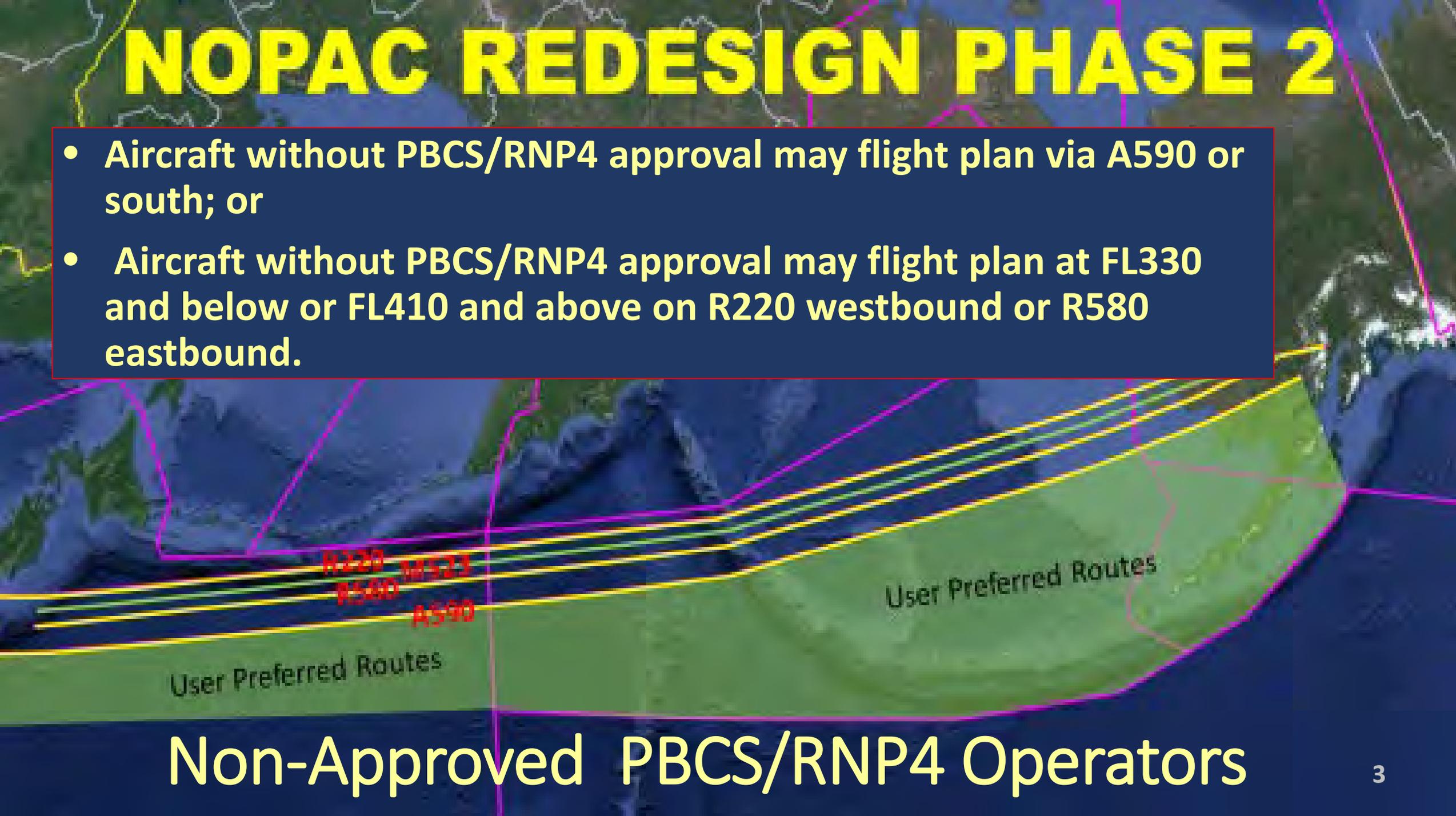
R220 M523  
R580 A590

User Preferred Routes

User Preferred Routes

# NOPAC REDESIGN PHASE 2

- Aircraft without PBCS/RNP4 approval may flight plan via A590 or south; or
- Aircraft without PBCS/RNP4 approval may flight plan at FL330 and below or FL410 and above on R220 westbound or R580 eastbound.



User Preferred Routes

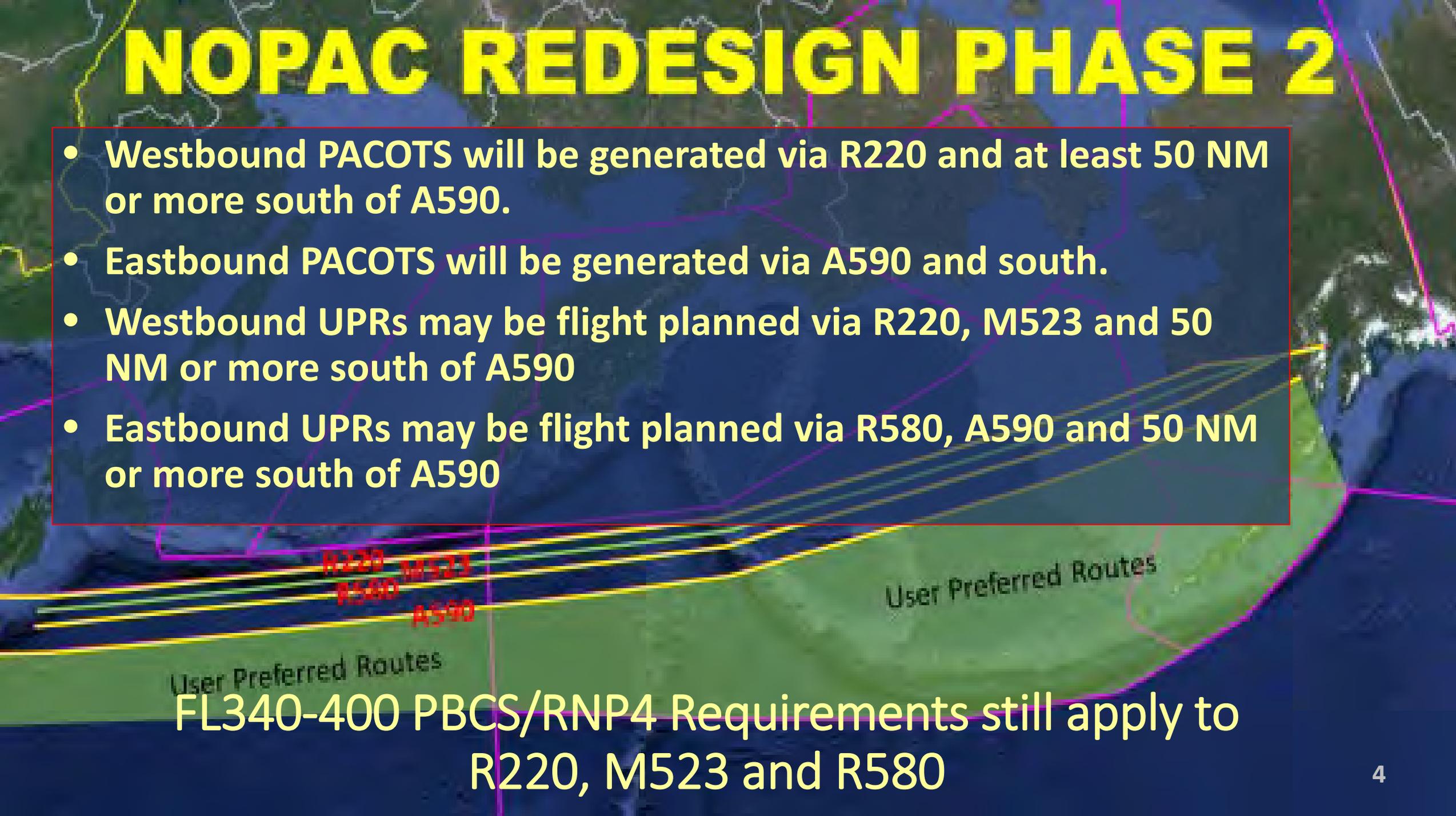
R220 R523  
R580 A590

User Preferred Routes

Non-Approved PBCS/RNP4 Operators

# NOPAC REDESIGN PHASE 2

- Westbound PACOTS will be generated via R220 and at least 50 NM or more south of A590.
- Eastbound PACOTS will be generated via A590 and south.
- Westbound UPRs may be flight planned via R220, M523 and 50 NM or more south of A590
- Eastbound UPRs may be flight planned via R580, A590 and 50 NM or more south of A590

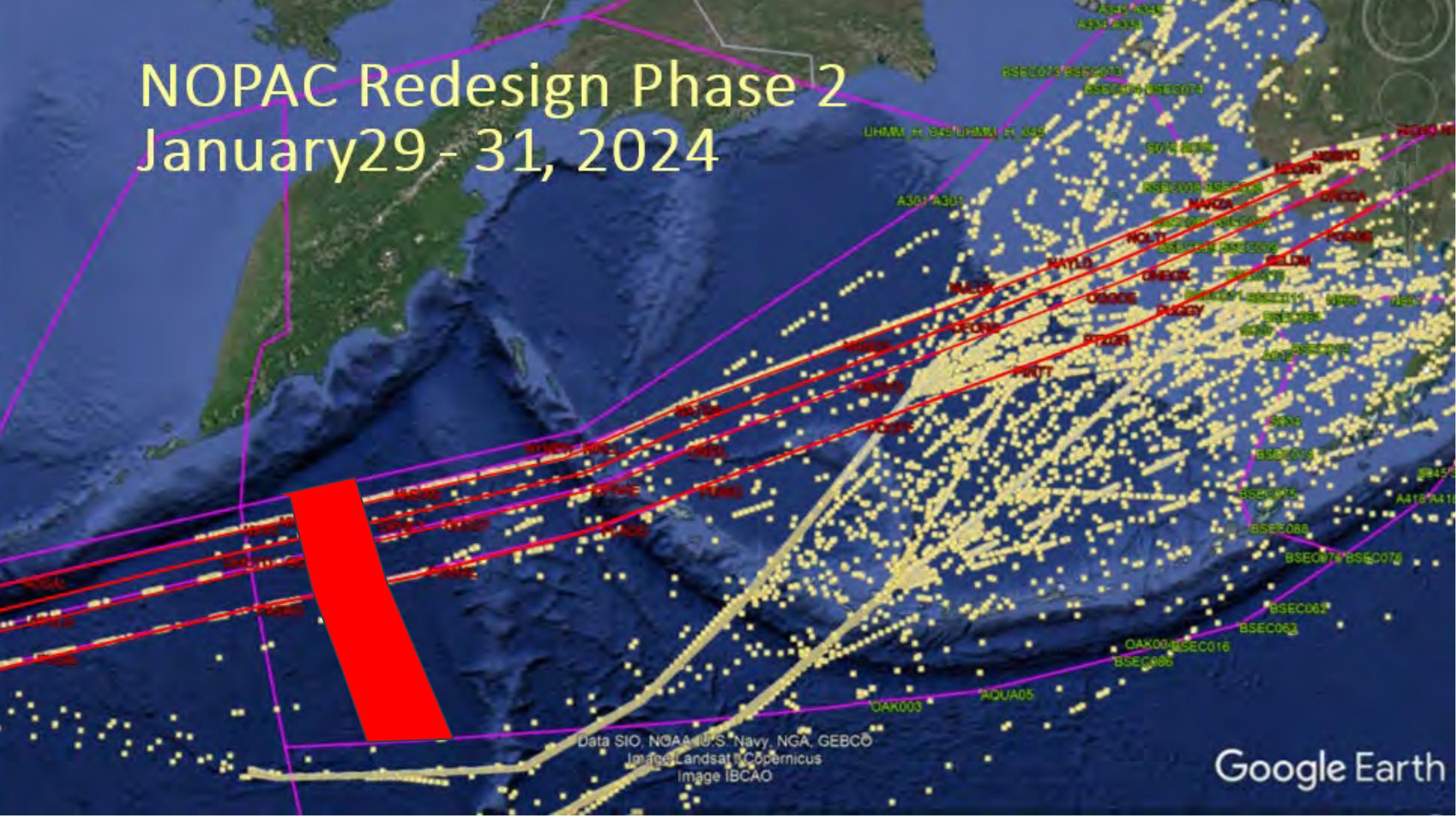


FL340-400 PBCS/RNP4 Requirements still apply to  
R220, M523 and R580



# NOPAC Redesign Phase 2

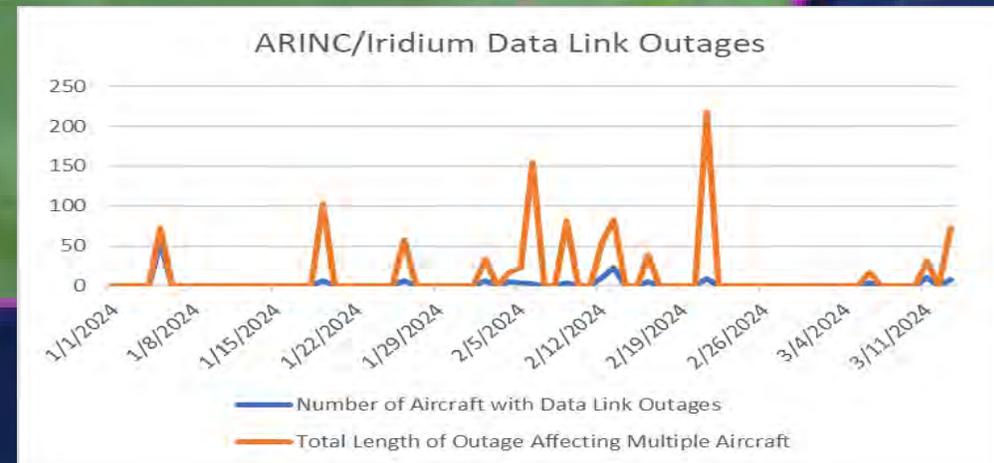
## January 29 - 31, 2024



# NOPAC REDESIGN PHASE 2

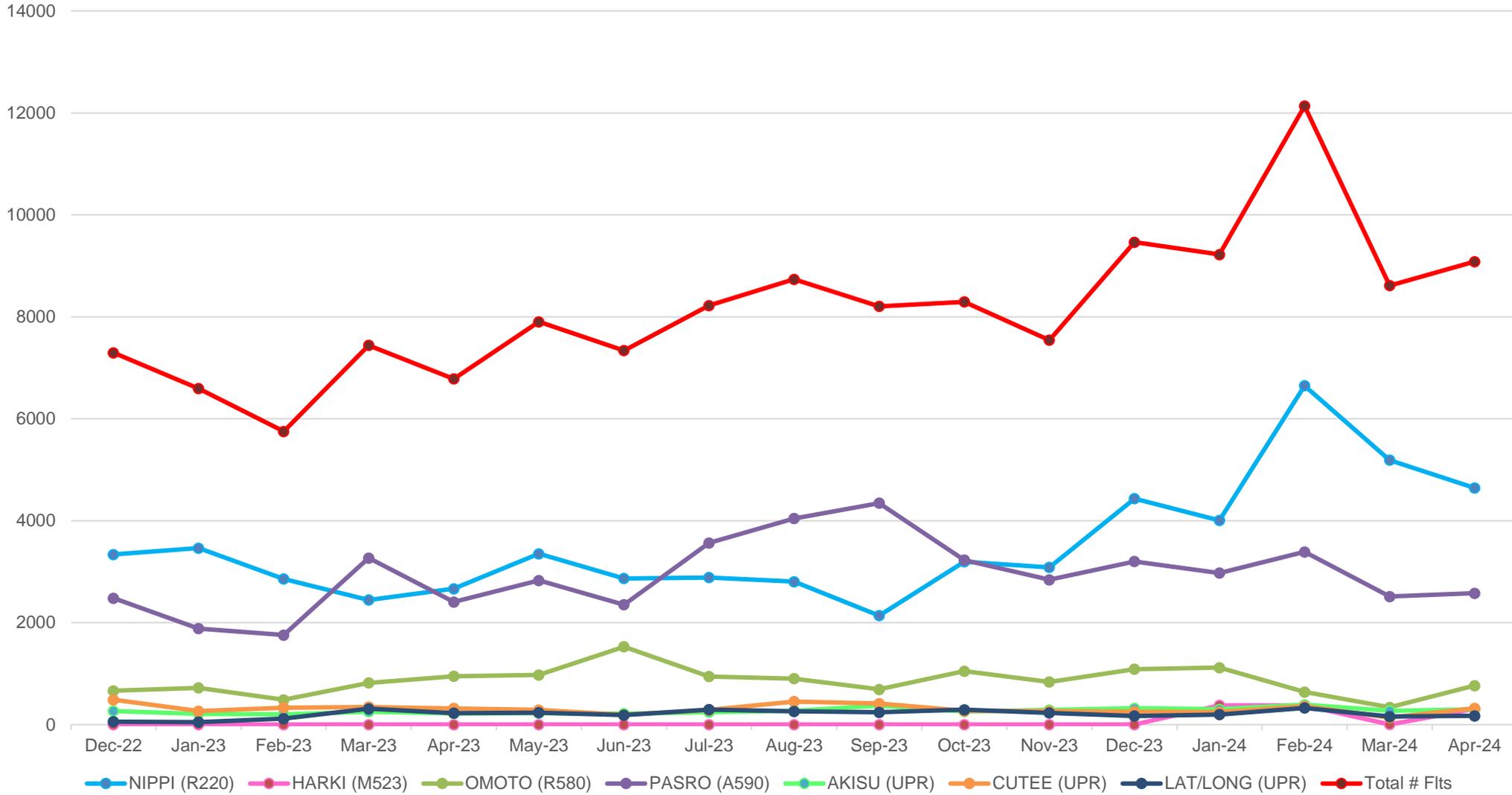
- In the event of a significant long term PBCS network outage, procedure allow for M523 to be closed until the outage is restored.
- The Collins (ARINC)/Iridium Network developed a problem in February 2024.
- M523 was closed on February 19, 2024 and R580 was available westbound at FL340 and above.
- Collins advised the issue had been corrected on February 26, 2024.
- Phase 2 Normal Operations resumed on April 1, 2024.

User Preferred Routes



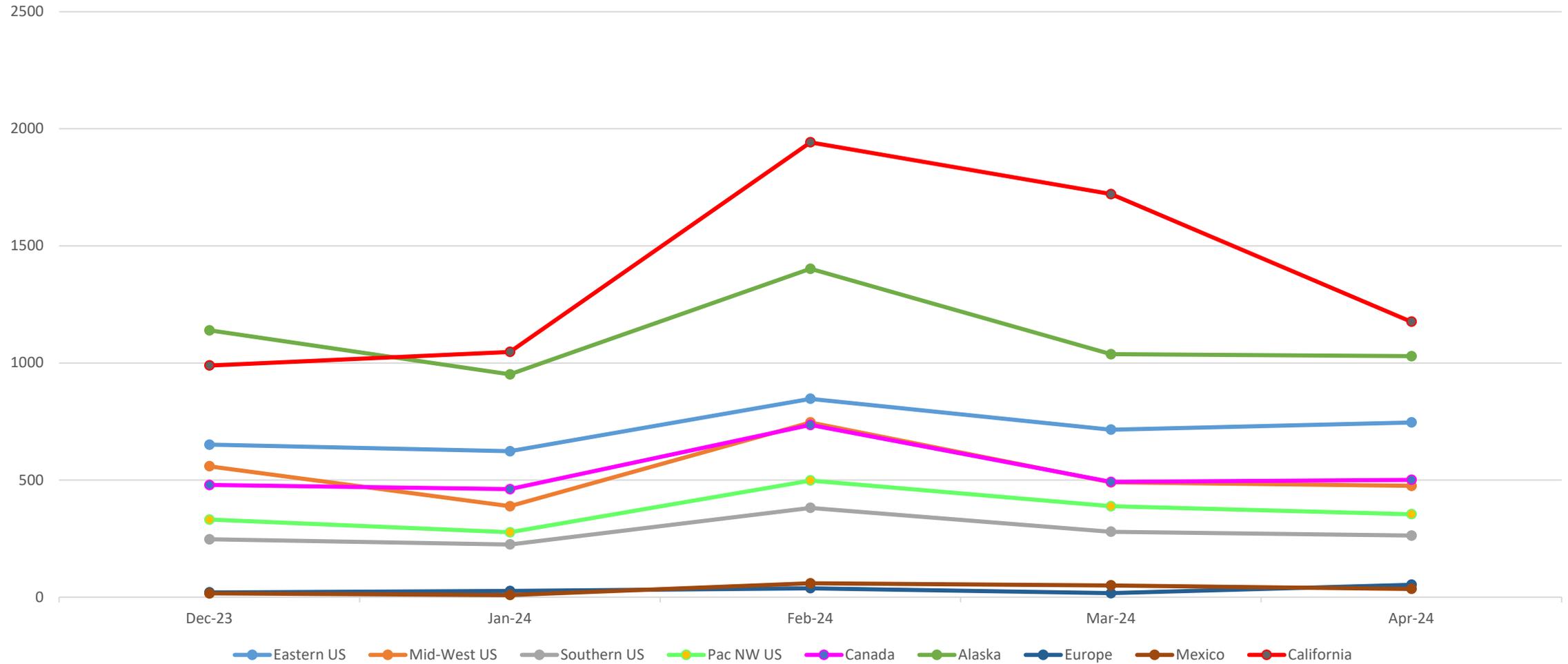
# NOPAC REDESIGN PHASE 2

NOPAC RJJJ/PAZN Crossing Point

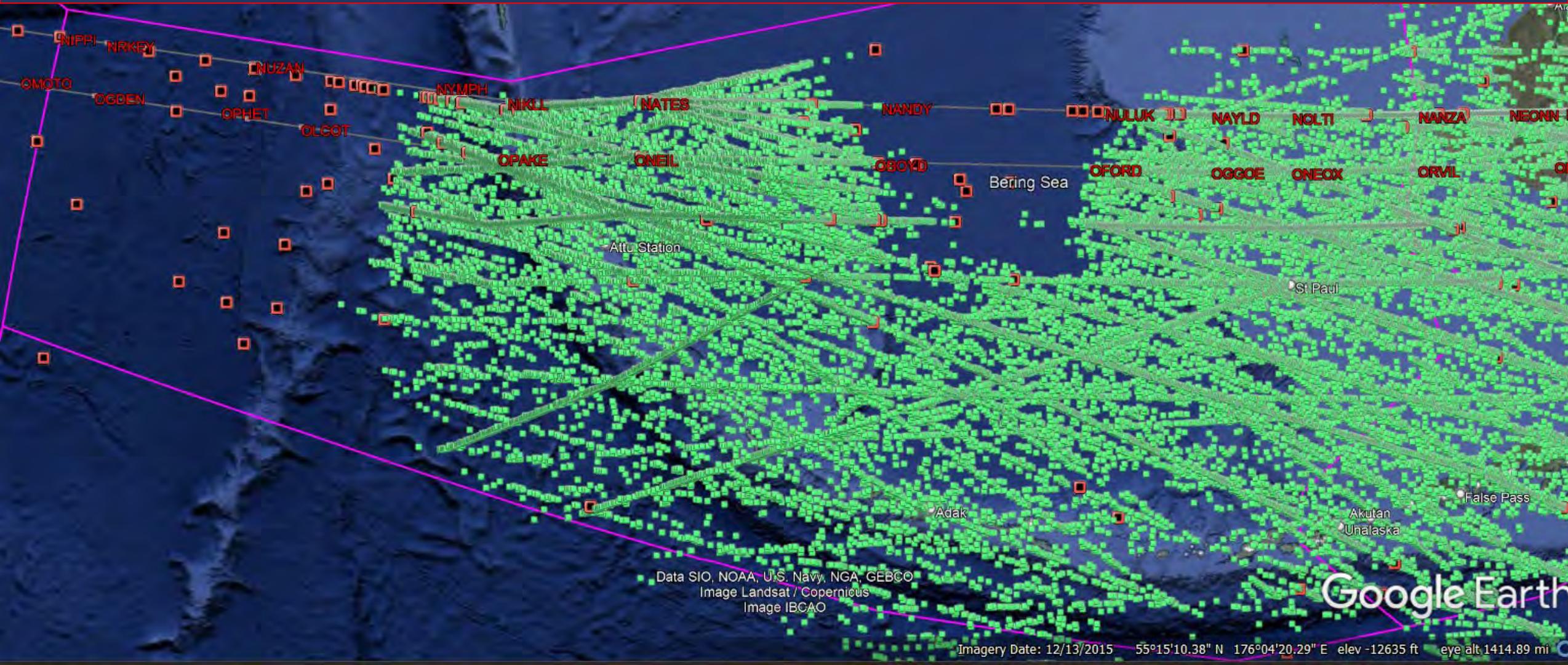


# NOPAC REDESIGN PHASE 2

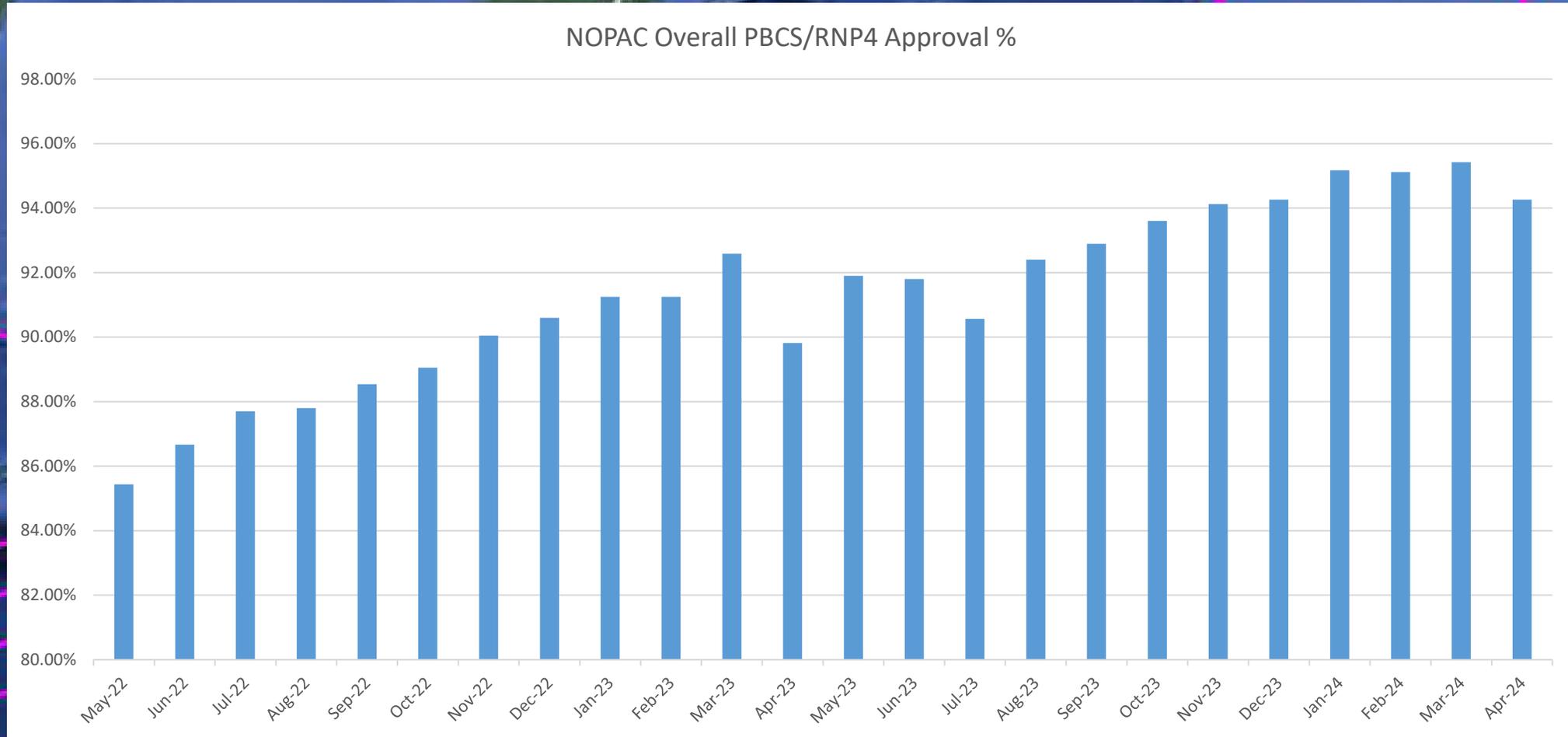
R220 Departure Region Traffic Makeup



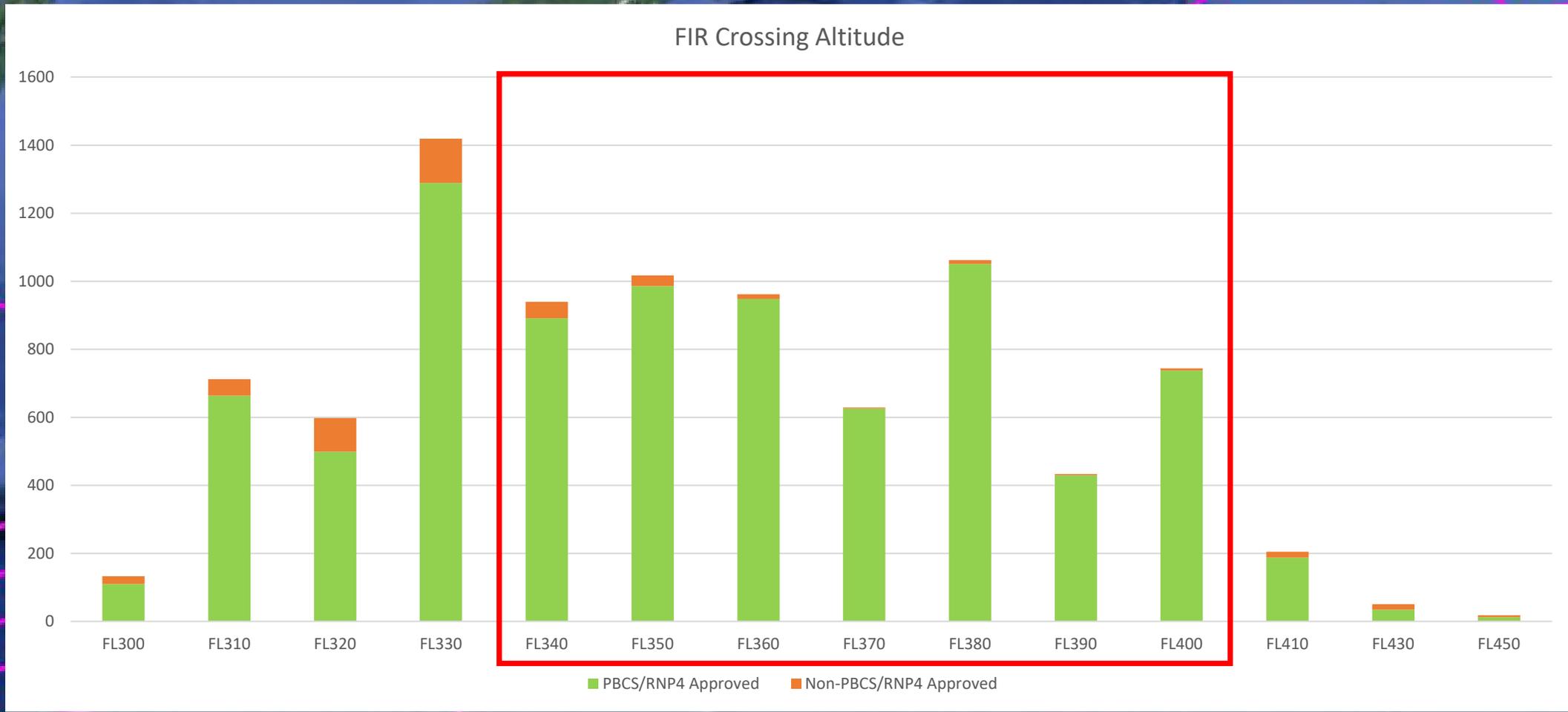
- Data Link issues have been a challenge.
- Many VDL/Satellite Transition issues
- Investigating the causes of the issues



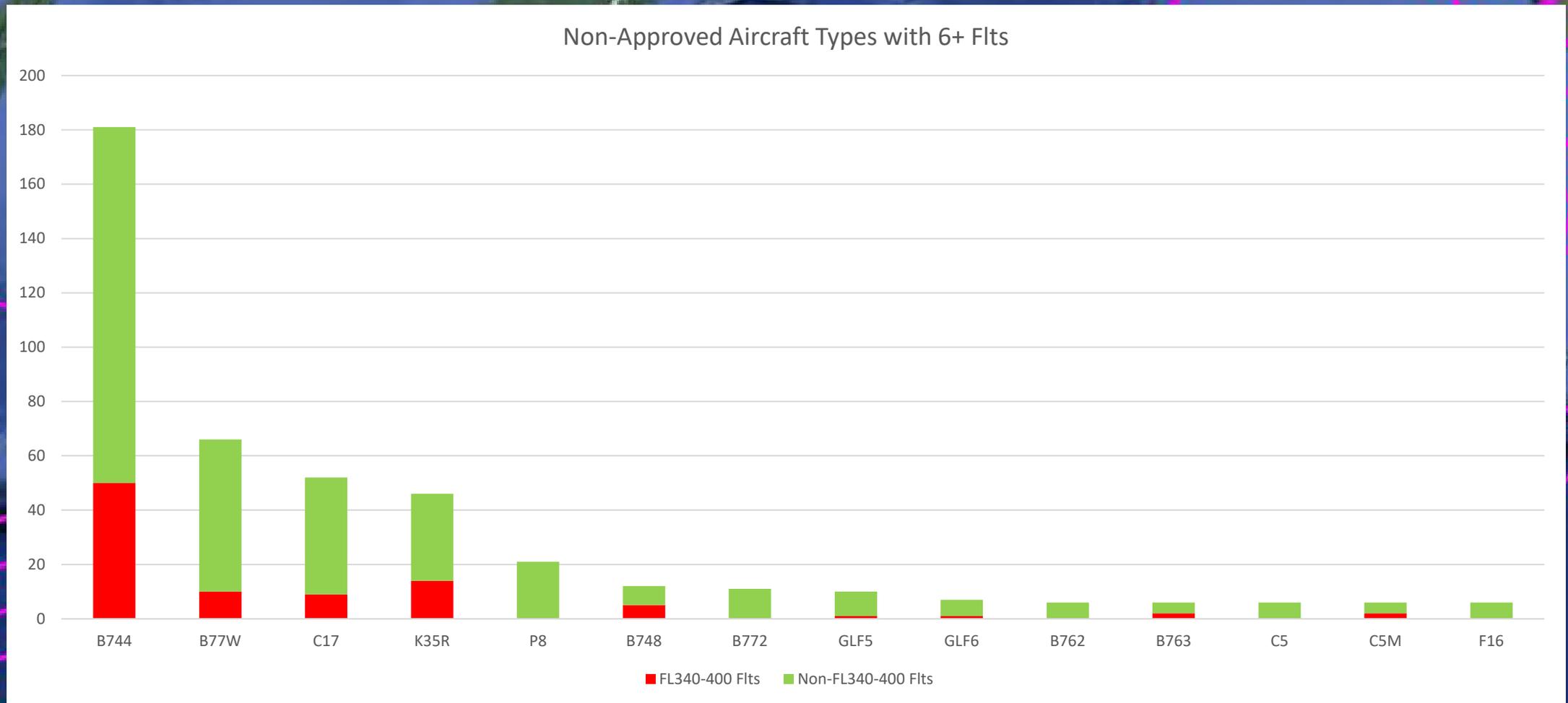
# NOPAC PBCS/RNP4 Approved Flights %



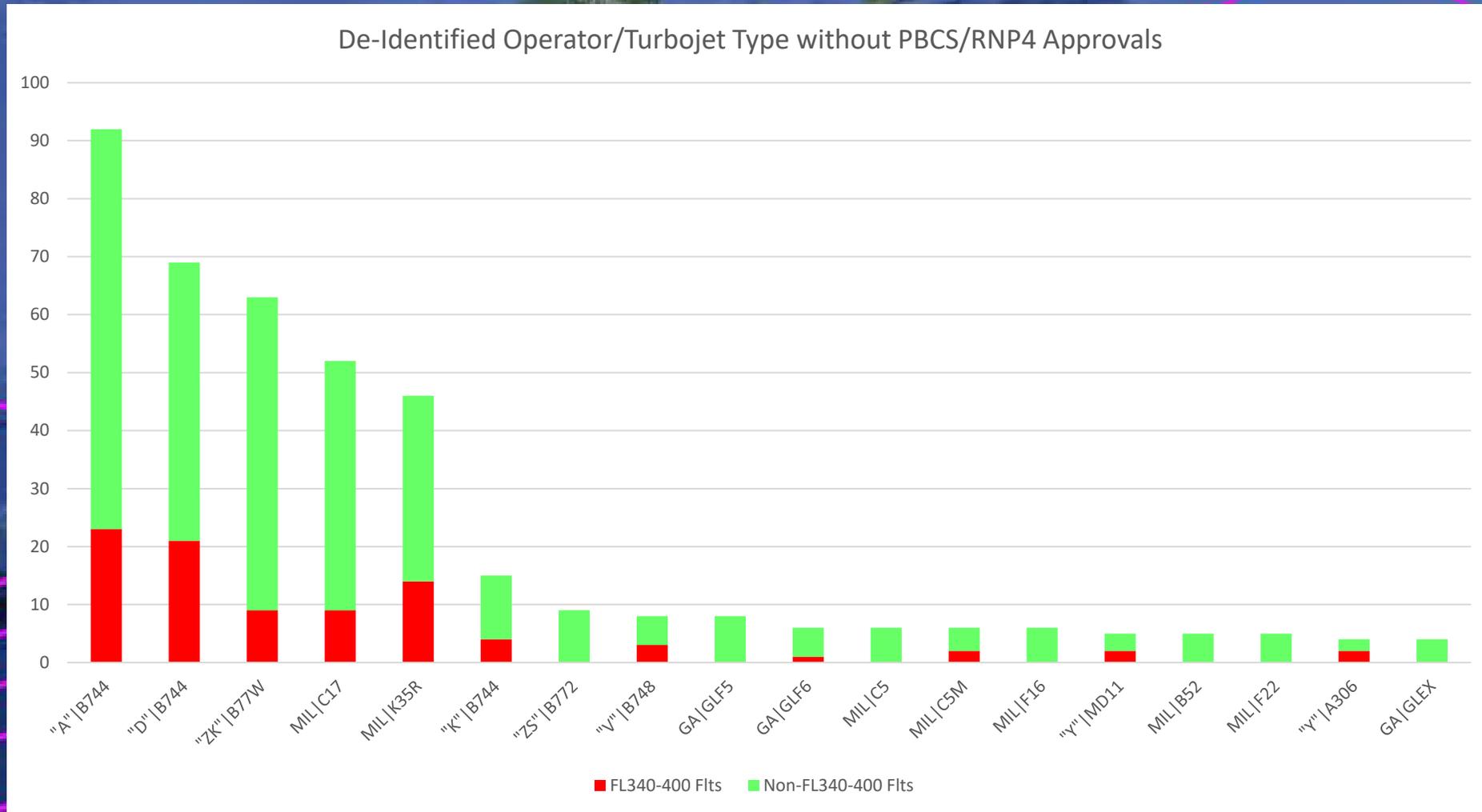
# NOPAC PBCS/RNP4 Approved Flights %



# NOPAC Non-Approved Aircraft Types



# NOPAC Altitude Use and PBCS/RNP4 approvals



# NOPAC REDESIGN PHASE 3

Tentatively End of 2024 or later

- R220, M523, R580, N507 and A590 From FL340 through FL400 requires:
- RNP4
- RCP240
- RSP180

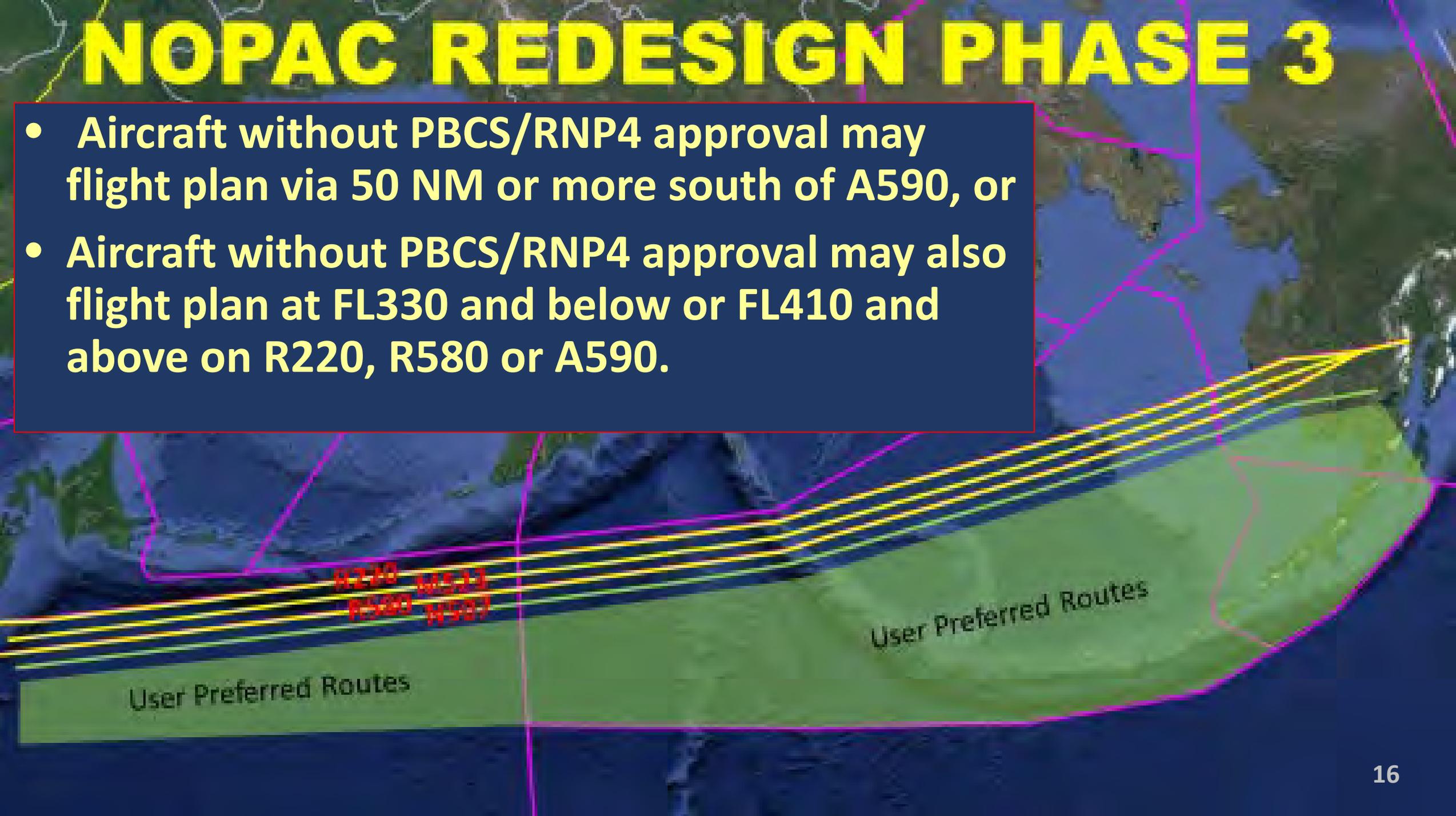
R220 M523  
R580 N507  
A590

User Preferred Routes

- NOPAC PBCS/RNP4 requirements are enforced by ATC.
- Route A590 may be removed but the Waypoints would be retained

# NOPAC REDESIGN PHASE 3

- Aircraft without PBCS/RNP4 approval may flight plan via 50 NM or more south of A590, or
- Aircraft without PBCS/RNP4 approval may also flight plan at FL330 and below or FL410 and above on R220, R580 or A590.



# NOPAC REDESIGN PHASE 3

- Westbound PACOTS will be generated via R220 and at least 50 NM or more south of N507.
- Eastbound PACOTS will be generated via R580 and south.
- Westbound UPRs may be flight planned via R220, M523 and 50 NM or more south of A590
- Eastbound UPRs may be flight planned via R580, N507 and A590 and south

User Preferred Routes

User Preferred Routes

FL340-400 PBCS/RNP4 Requirements still apply to  
R220, M523, R580, A590 and N507

# NOPAC Redesign Phase 3

(Cross-sectional chart)

