

NOPAC ORIGINAL ROUTES

NOPAC Redesign Project

R120

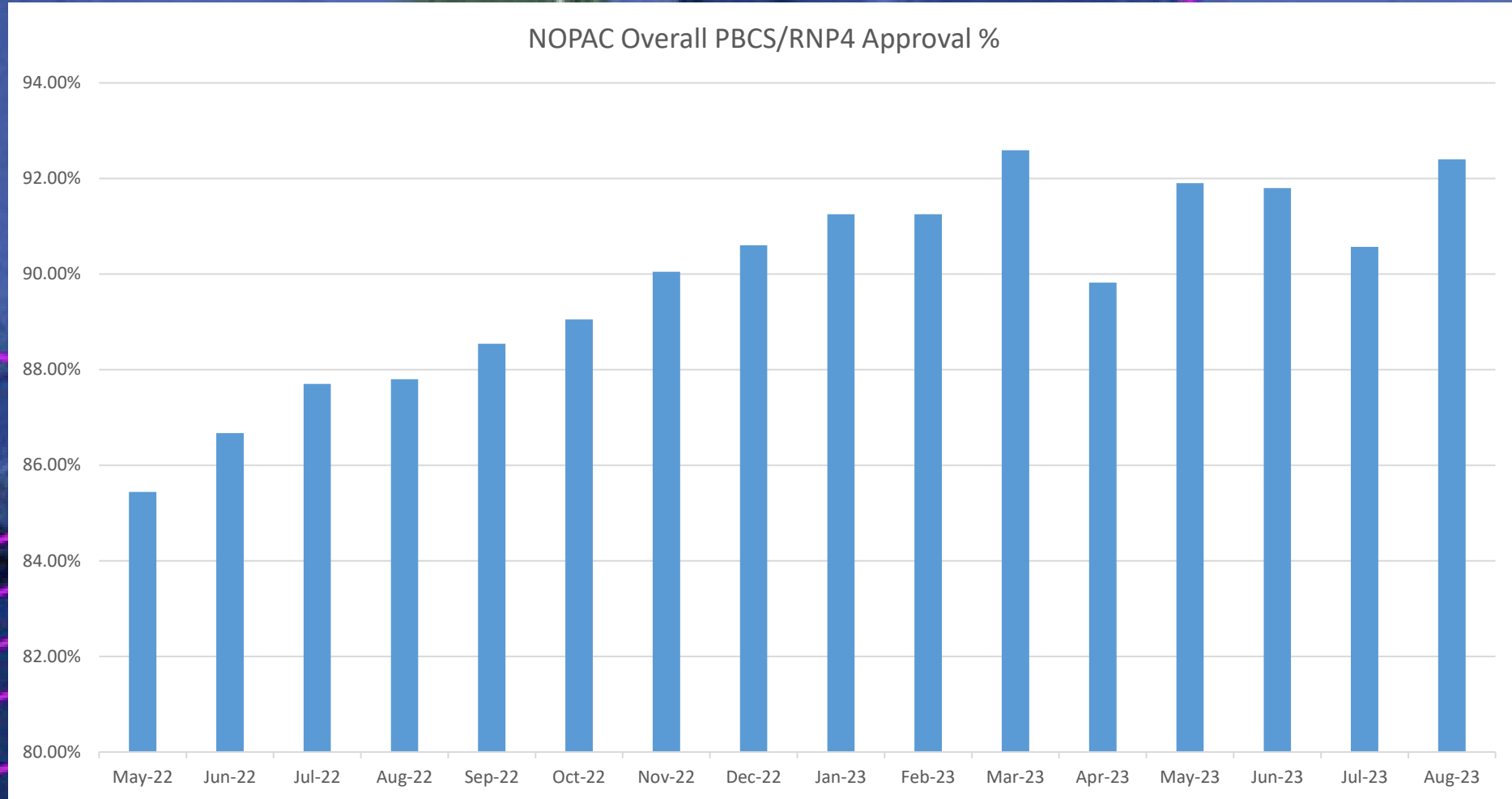
R180

A590

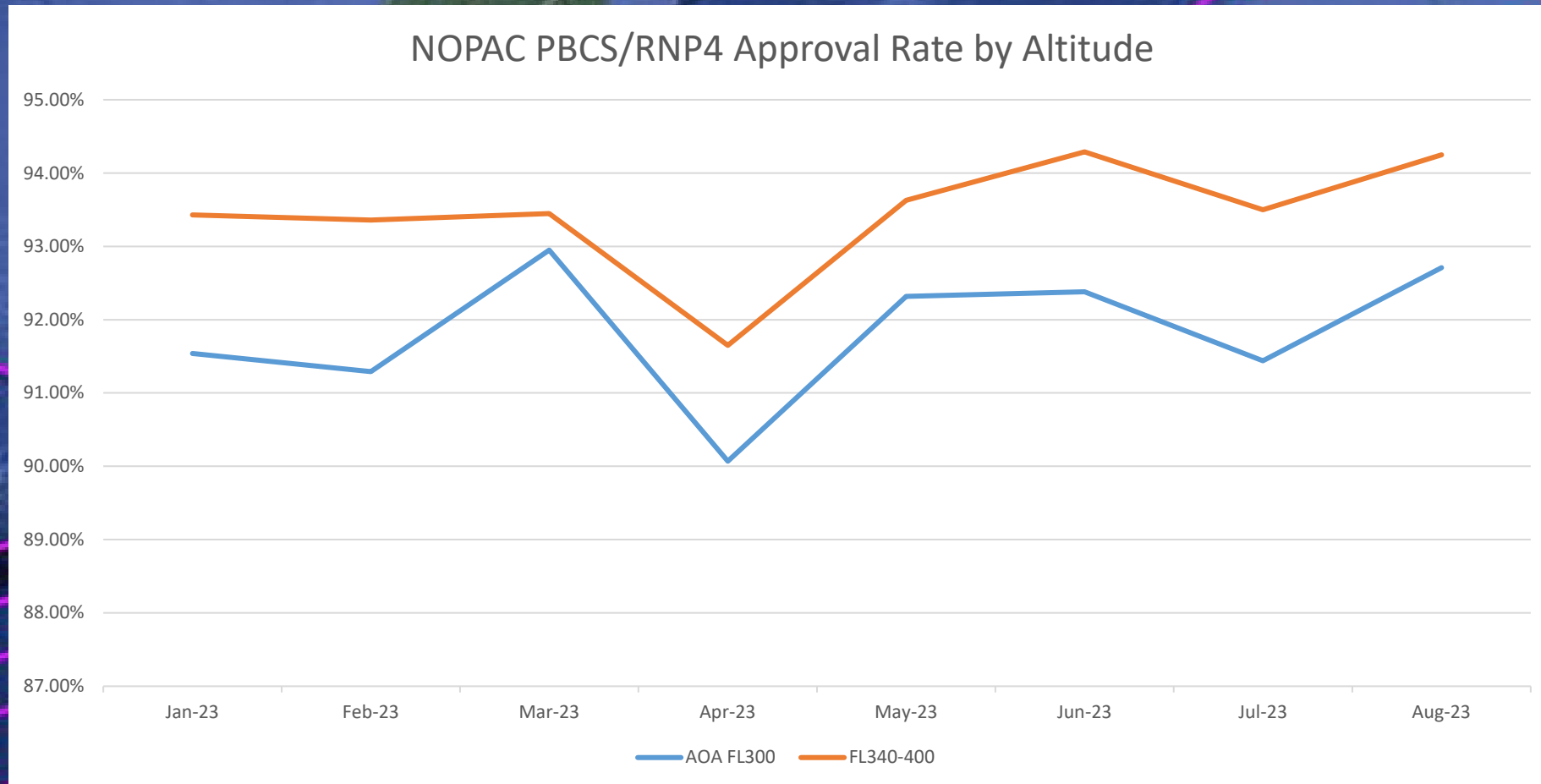
R591

G344

NOPAC PBCS/RNP4 Approved Flights %

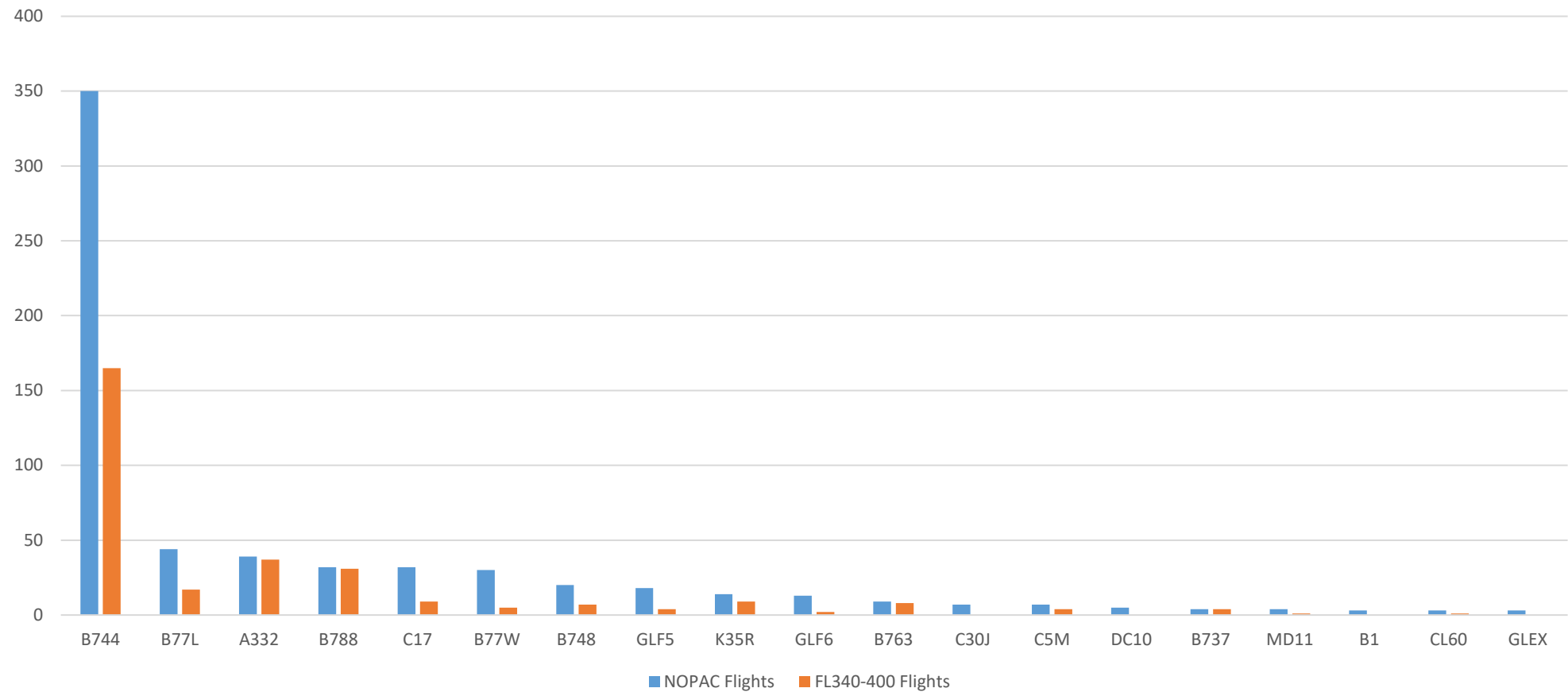


NOPAC PBCS/RNP4 Approved Flights %

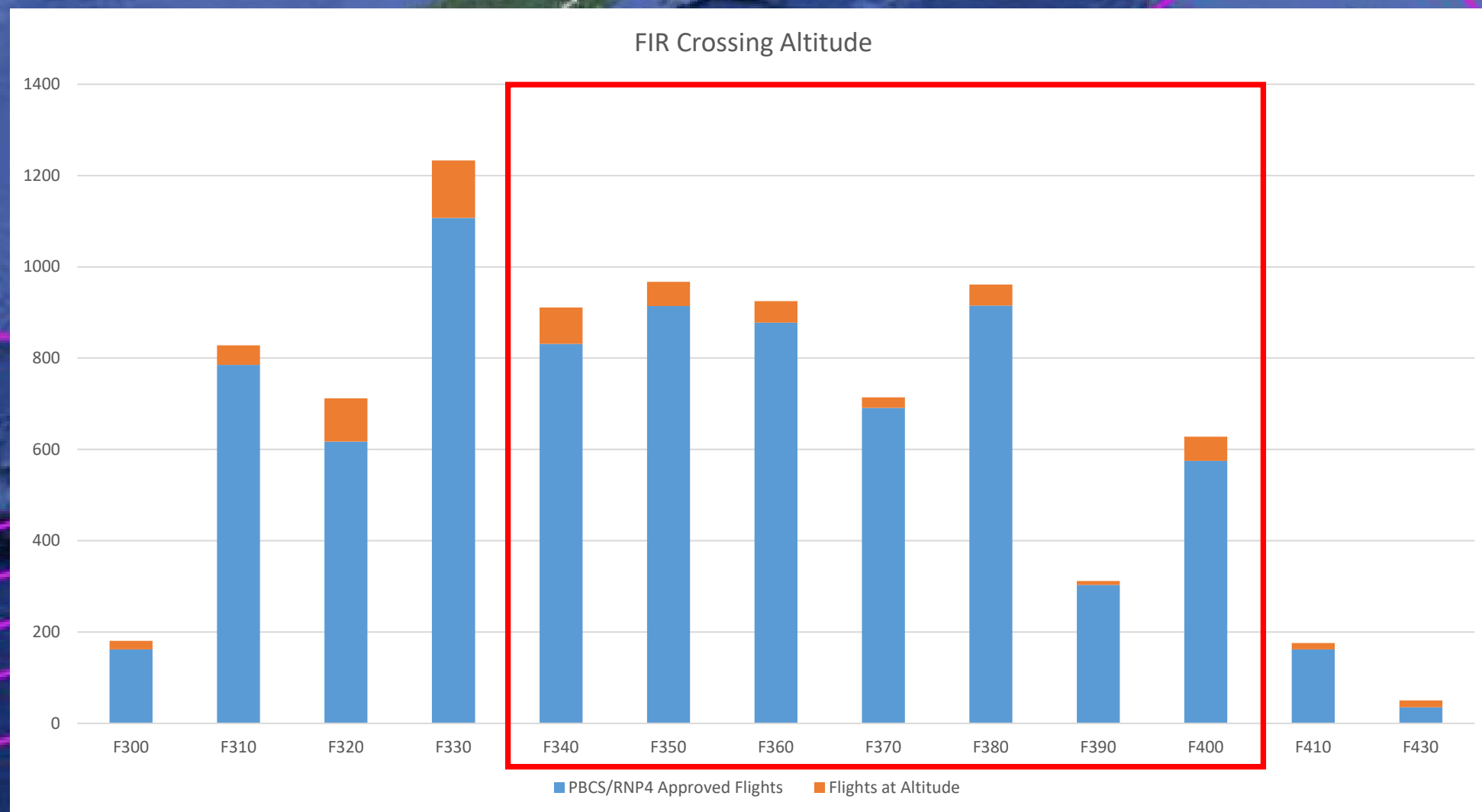


NOPAC Non-Approved Aircraft Types

August 2023 Non-PBCS/RNP4 Approved NOPAC Aircraft Type



NOPAC Altitude Use and PBCS/RNP4 approvals



NOPAC REDESIGN PHASE 1b

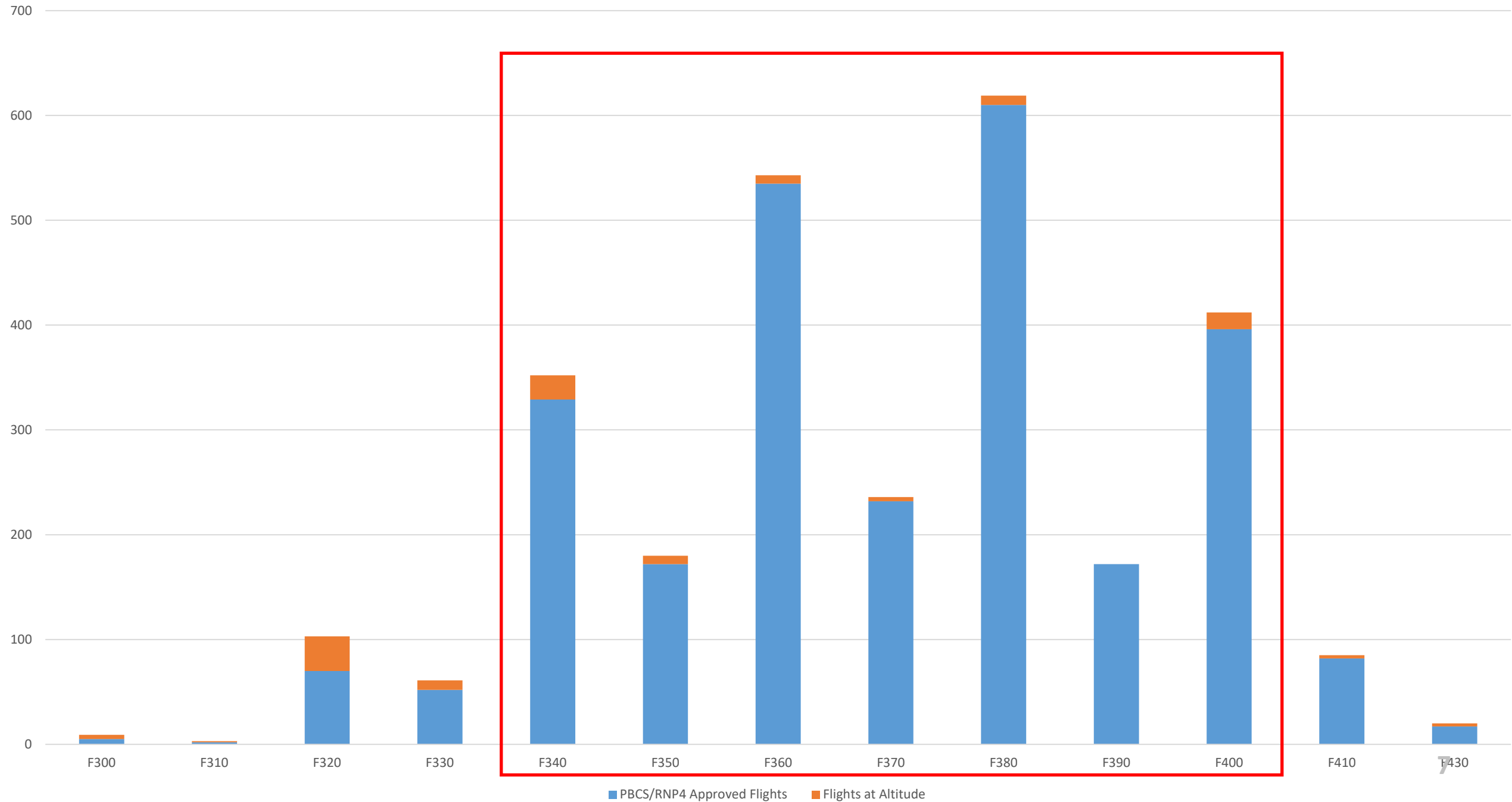
- R220 From FL340 through FL400 requires:
- RNP4
- RCP240
- RSP180

R220
R500
A500

User Preferred Routes

User Preferred Routes

July 2023 R220 FIR Crossing Altitude



NOPAC Redesign Phase 1b Flight Planning South of A590

Operators wishing to fly a route that followed one of the deleted routes (R591 & G344) may just flight plan via the waypoints of the deleted route.

Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image IBCAO
Image Landsat / Copernicus

Google Earth

8

NOPAC Redesign Phase 1b Flight Planning South of A590

Operators wishing to fly a route that followed one of the deleted routes (R591 & G344) may just flight plan via the waypoints of the deleted route.

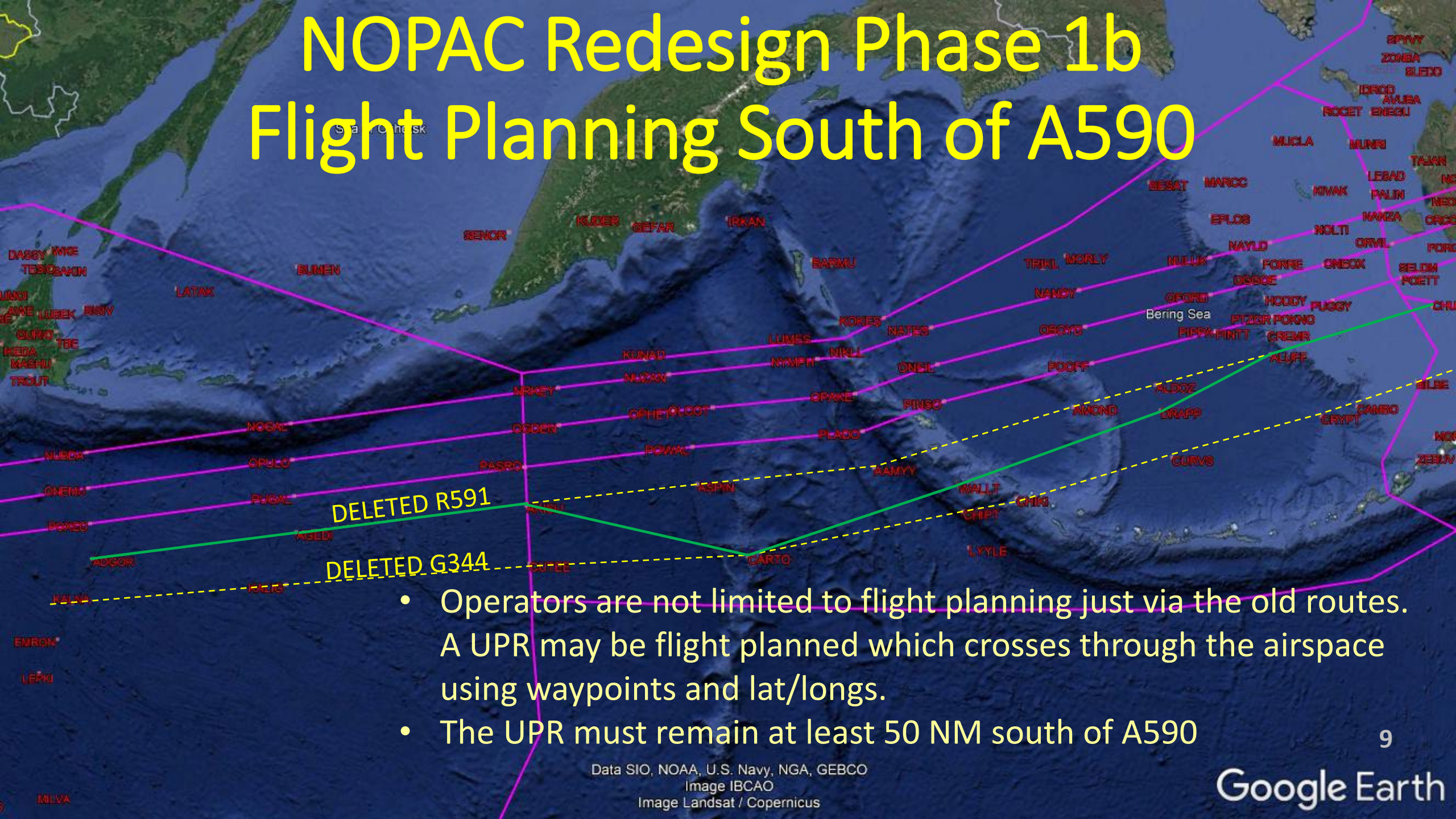
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image IBCAO
Image Landsat / Copernicus

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Google Earth

NOPAC Redesign Phase 1b

Flight Planning South of A590

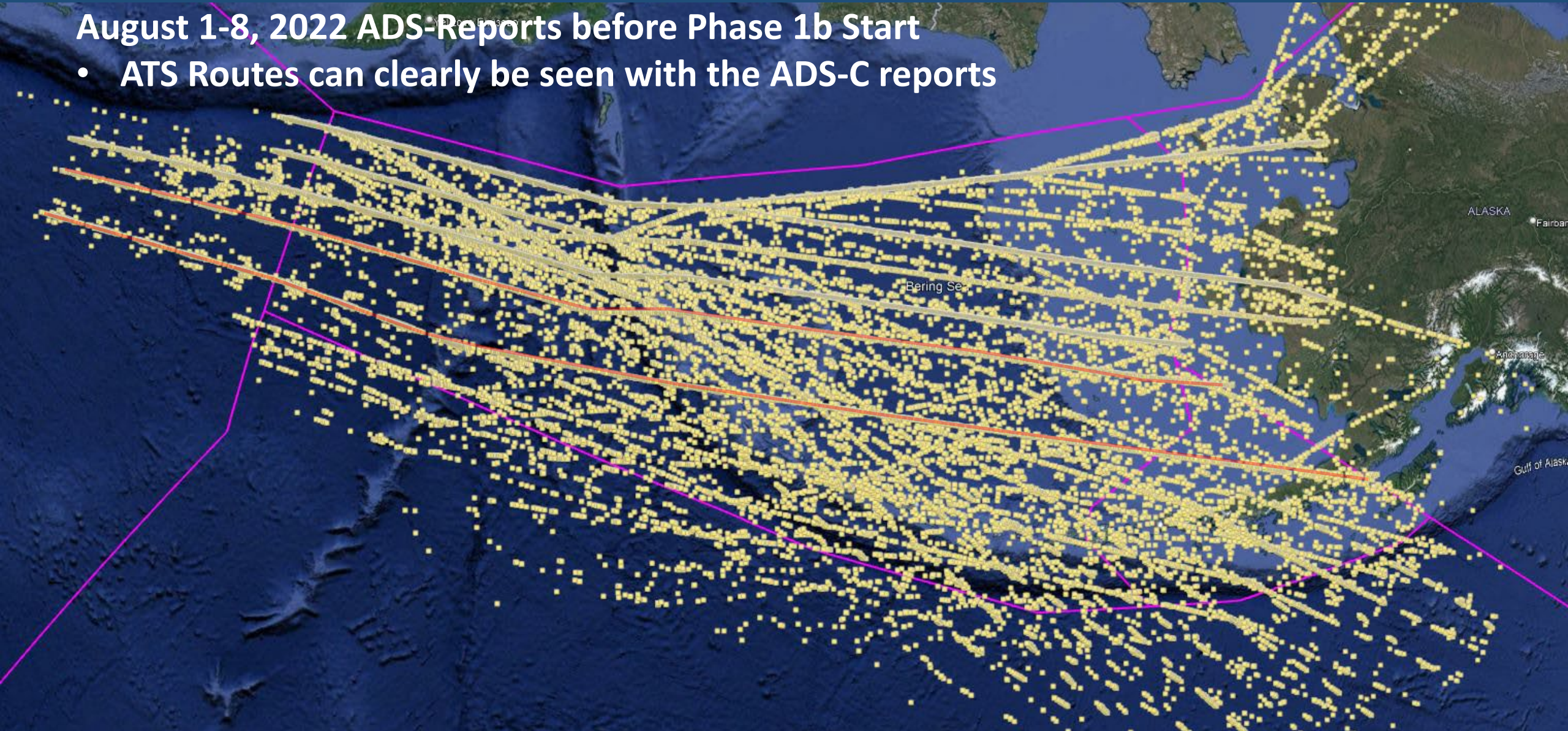


- Operators are not limited to flight planning just via the old routes. A UPR may be flight planned which crosses through the airspace using waypoints and lat/longs.
- The UPR must remain at least 50 NM south of A590

NOPAC Redesign Phase 1b User Preferred Routes

August 1-8, 2022 ADS-Reports before Phase 1b Start

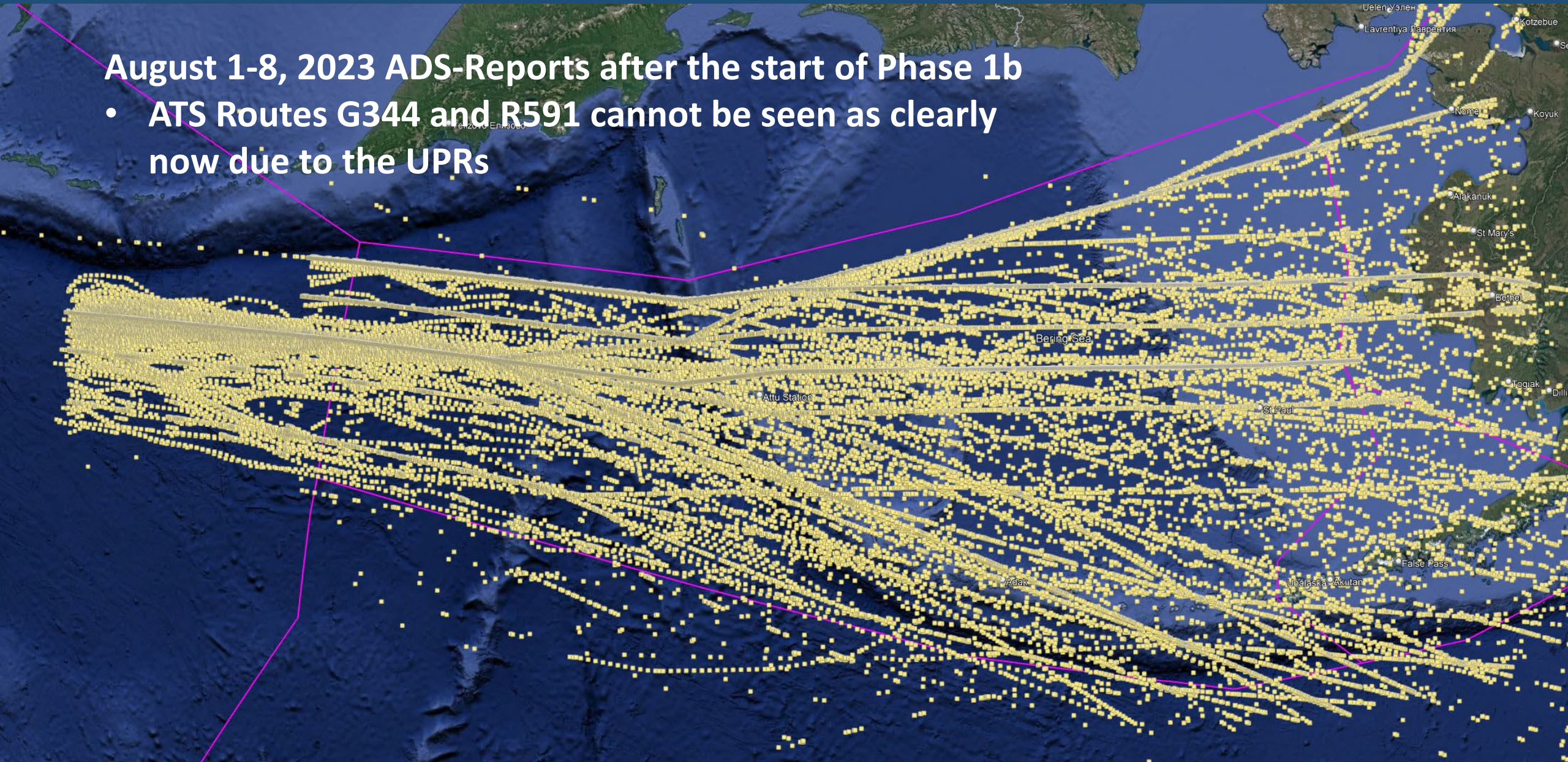
- ATS Routes can clearly be seen with the ADS-C reports



NOPAC Redesign Phase 1b User Preferred Routes

August 1-8, 2023 ADS-Reports after the start of Phase 1b

- ATS Routes G344 and R591 cannot be seen as clearly now due to the UPRs



NOPAC REDESIGN PHASE 2

Planned January 25, 2024

- **R220, M523 and R580** From FL340 through FL400 requires:

- RNP4
- RCP240
- RSP180

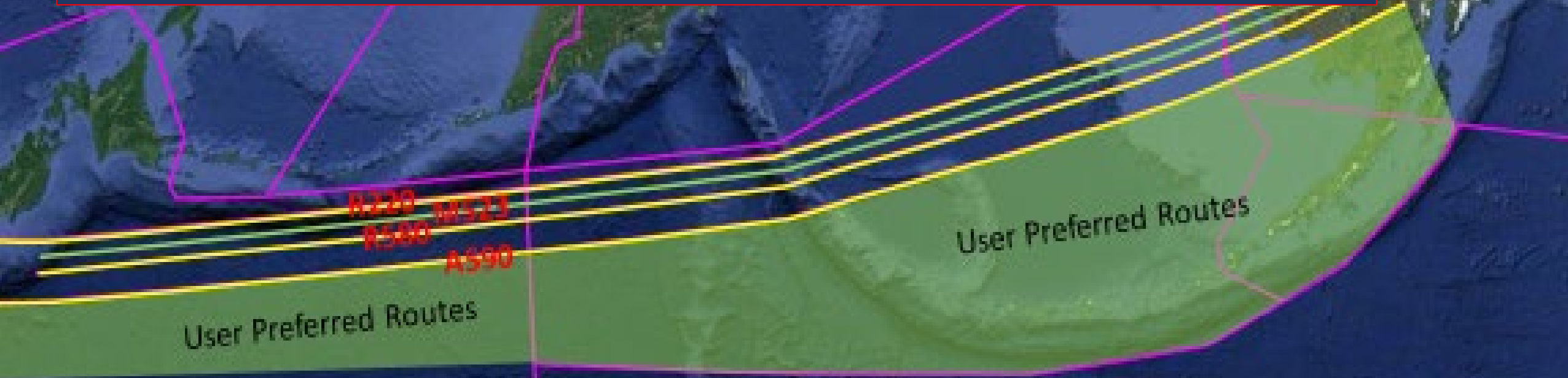
R220 M523
R580 A590

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.



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 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, A590 and 50 NM or more south of A590

User Preferred Routes

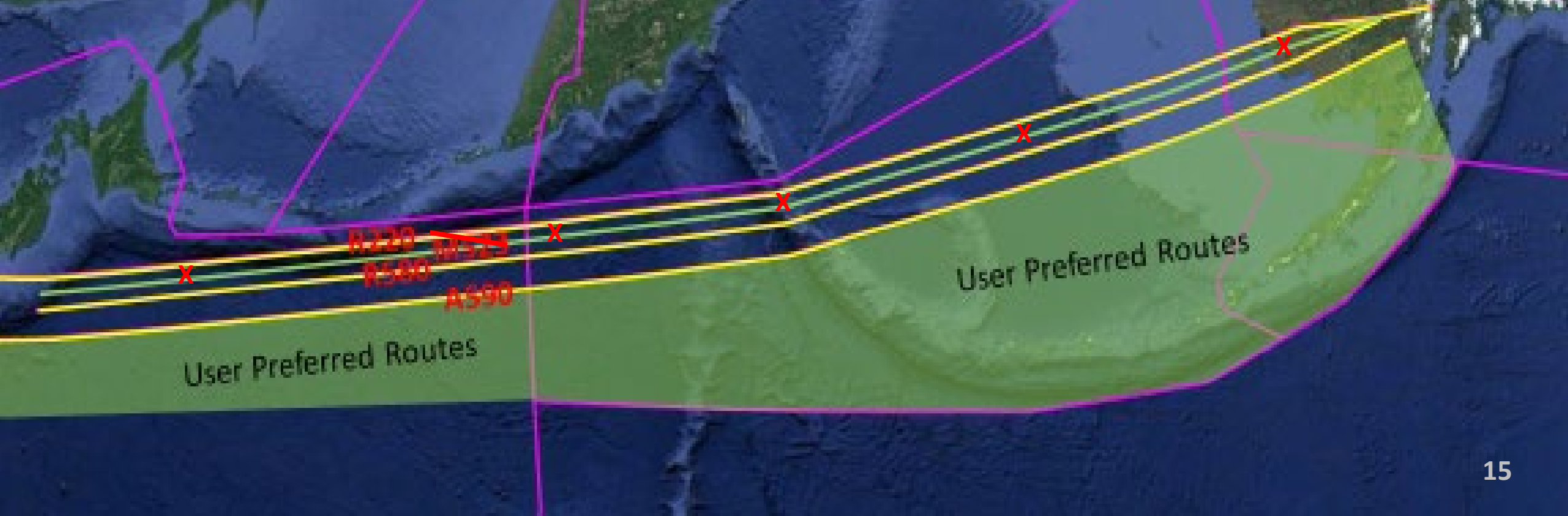
R220 M523
R580 A590

User Preferred Routes

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

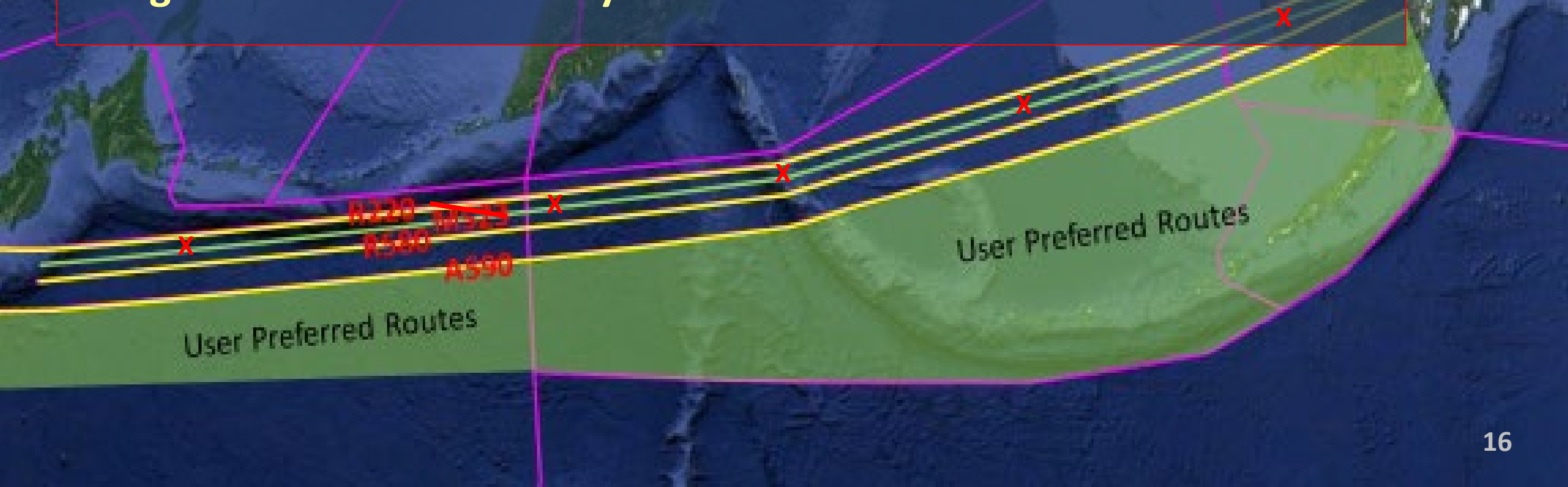
NOPAC REDESIGN PHASE 2

- In the event of a significant long term PBCS network outage, M523 will be closed until the outage is restored.



NOPAC REDESIGN PHASE 2

- In the event of turbulence, icing or aircraft equipment failures, ATC will tactically manage these events when an aircraft can not continue to operate in the FL340-FL400 stratum on M523.
- Operators may coordinate new aircraft or equipment failure ferry flights with the ATC facility



NOPAC REDESIGN PHASE 3

Second half of 2024

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

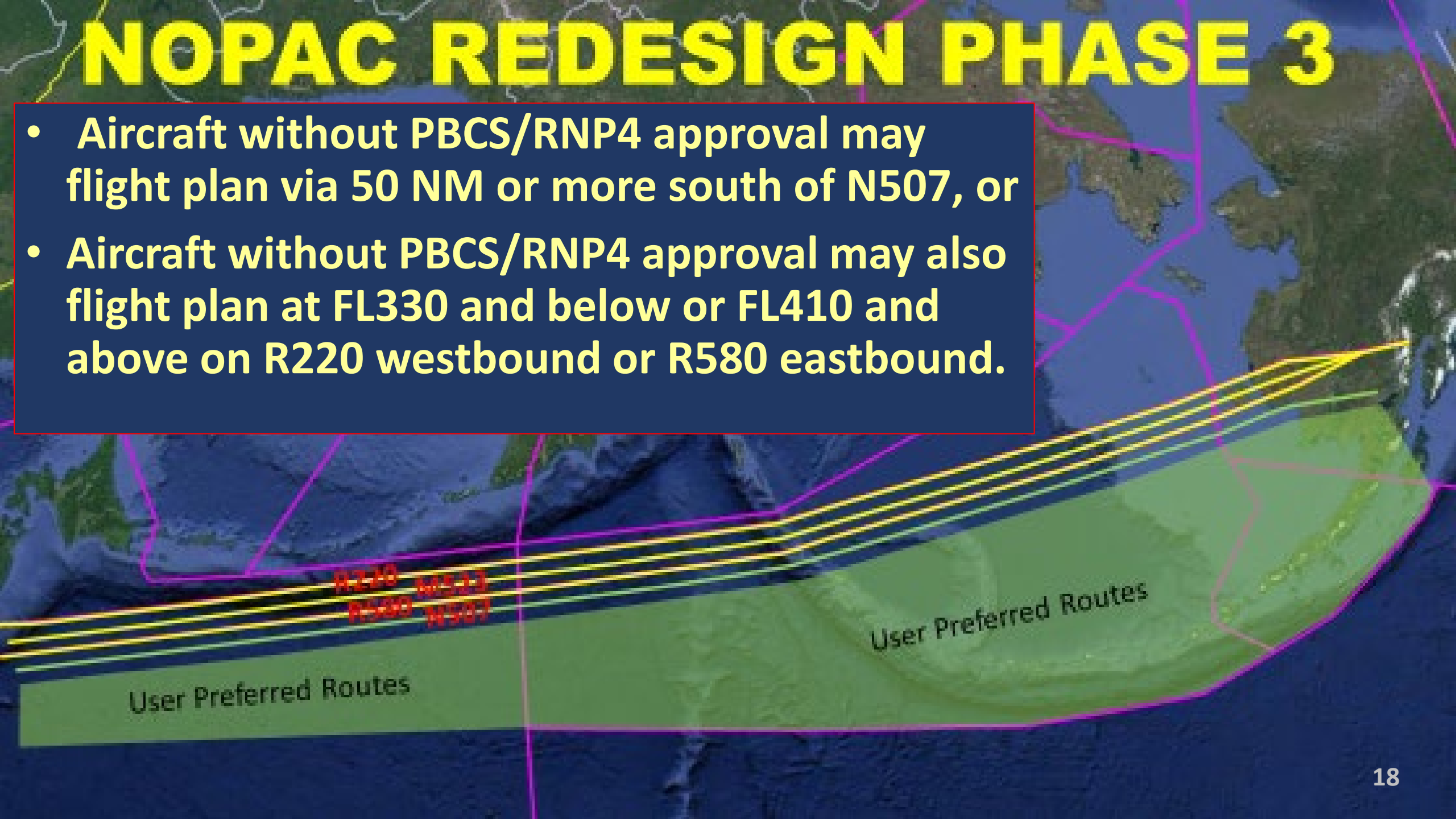
R220 M523
R580 N507

User Preferred Routes

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

NOPAC REDESIGN PHASE 3

- Aircraft without PBCS/RNP4 approval may flight plan via 50 NM or more south of N507, or
- Aircraft without PBCS/RNP4 approval may also flight plan at FL330 and below or FL410 and above on R220 westbound or R580 eastbound.



NOPAC REDESIGN PHASE 3

- Westbound PACOTS will be generated via R220, M523 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 N507
- Eastbound UPRs may be flight planned via R580, N507 and 25 NM or more south of N507

User Preferred Routes

User Preferred Routes

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

NOPAC Redesign Phase 3

(Cross-sectional chart)

