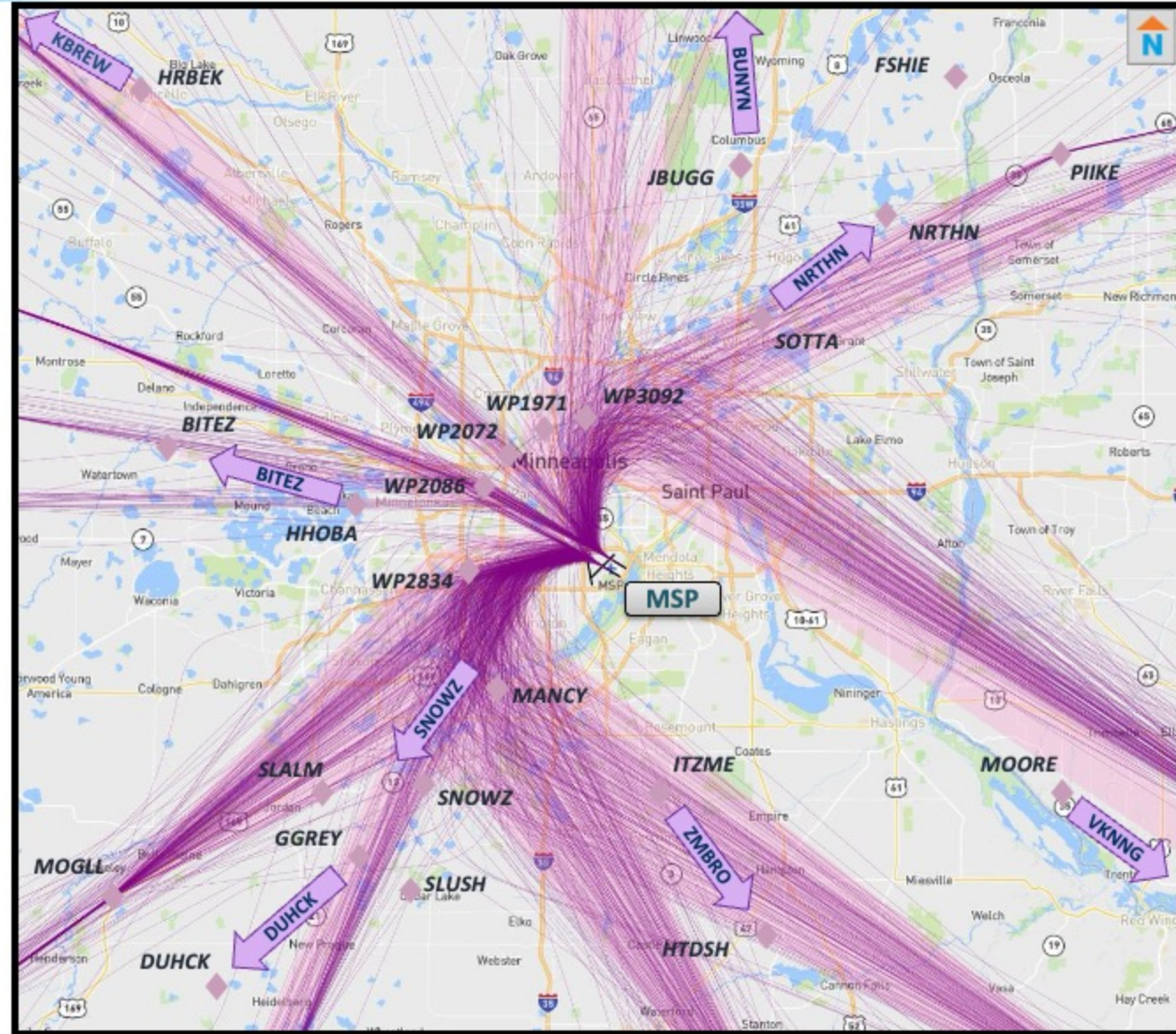





# Procedure Board Overview





**NRTN**  **Procedure** – All procedures use a five-letter designation. This procedure is pronounced “Northern”. The arrow indicates the direction of travel for departing or arriving procedures.


**TORG**  **Arrivals**

 **Waypoint** – Represents a latitude/longitude point on a procedure. Waypoints also use five-letter designations. This waypoint is pronounced “Slush”

**SLUSH**

 **7 DME** – Represents the existing area seven miles from the on-airport navigation equipment

 **Departures** **Flight Path Area** – Represents the area that aircraft will fly in the future when Air Traffic Controllers give pilots dispersed headings to follow, called vectors.

 **Arrivals**

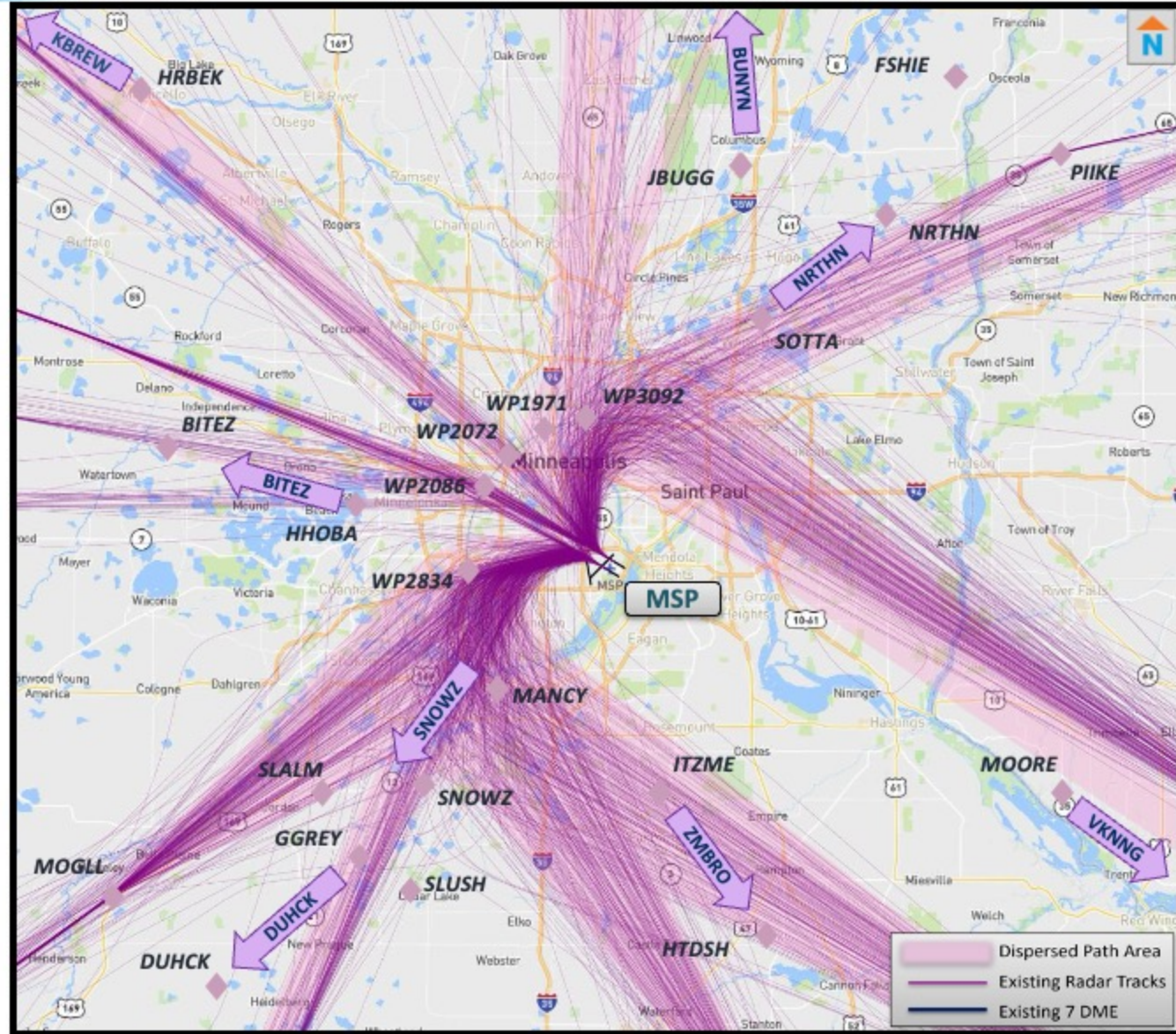
**STAR** Standard Terminal Arrival Route  
**SID** Standard Instrument Departure  
**ATC** Air Traffic Control  
**RNAV** Area Navigation







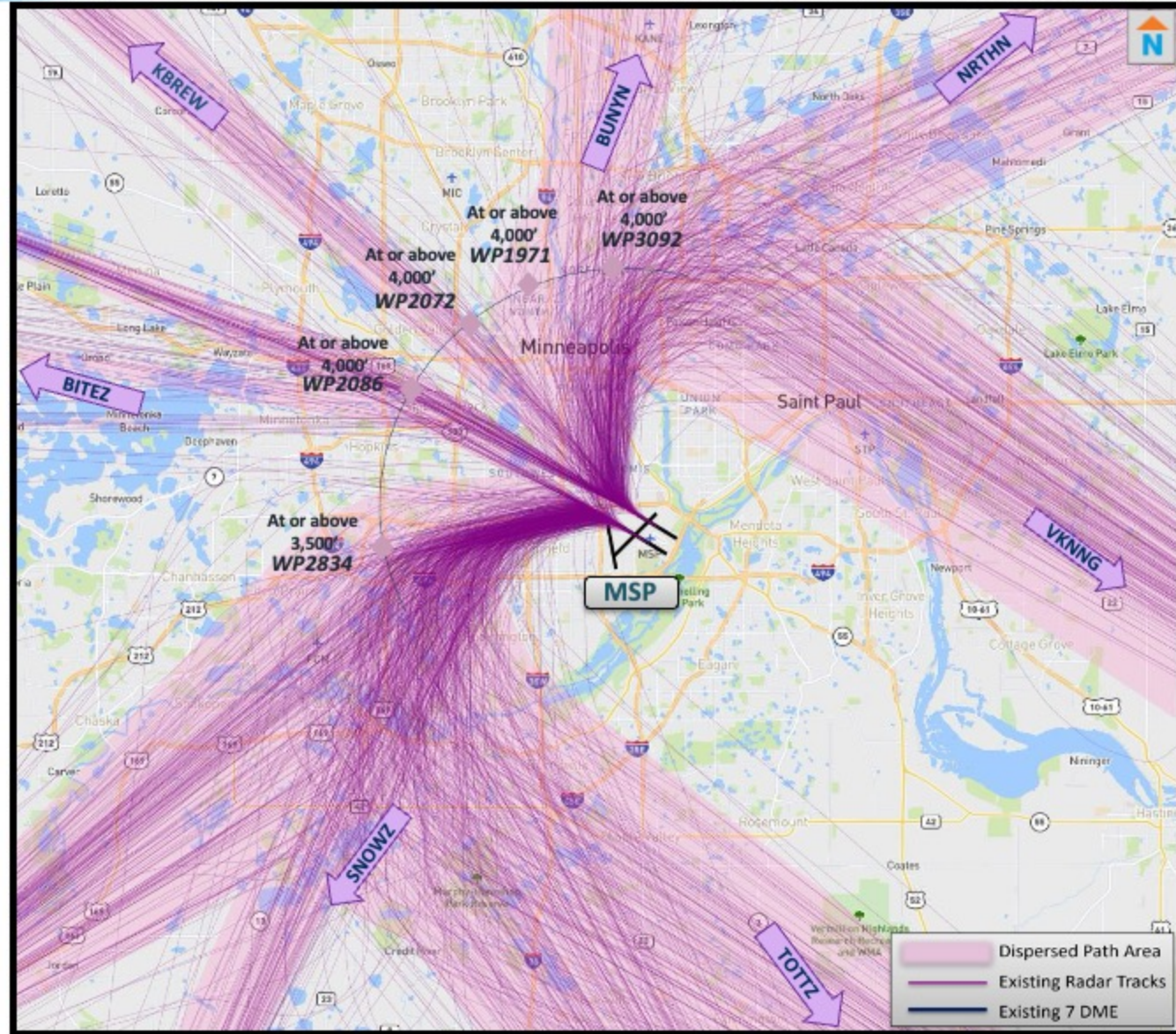




## North Flow Departures Runway 30R & 30L

- This board shows a zoomed-out view of the proposed SIDs for north flow
- The new procedures include existing voluntary noise abatement
- The following boards are more zoomed-in and provide additional details

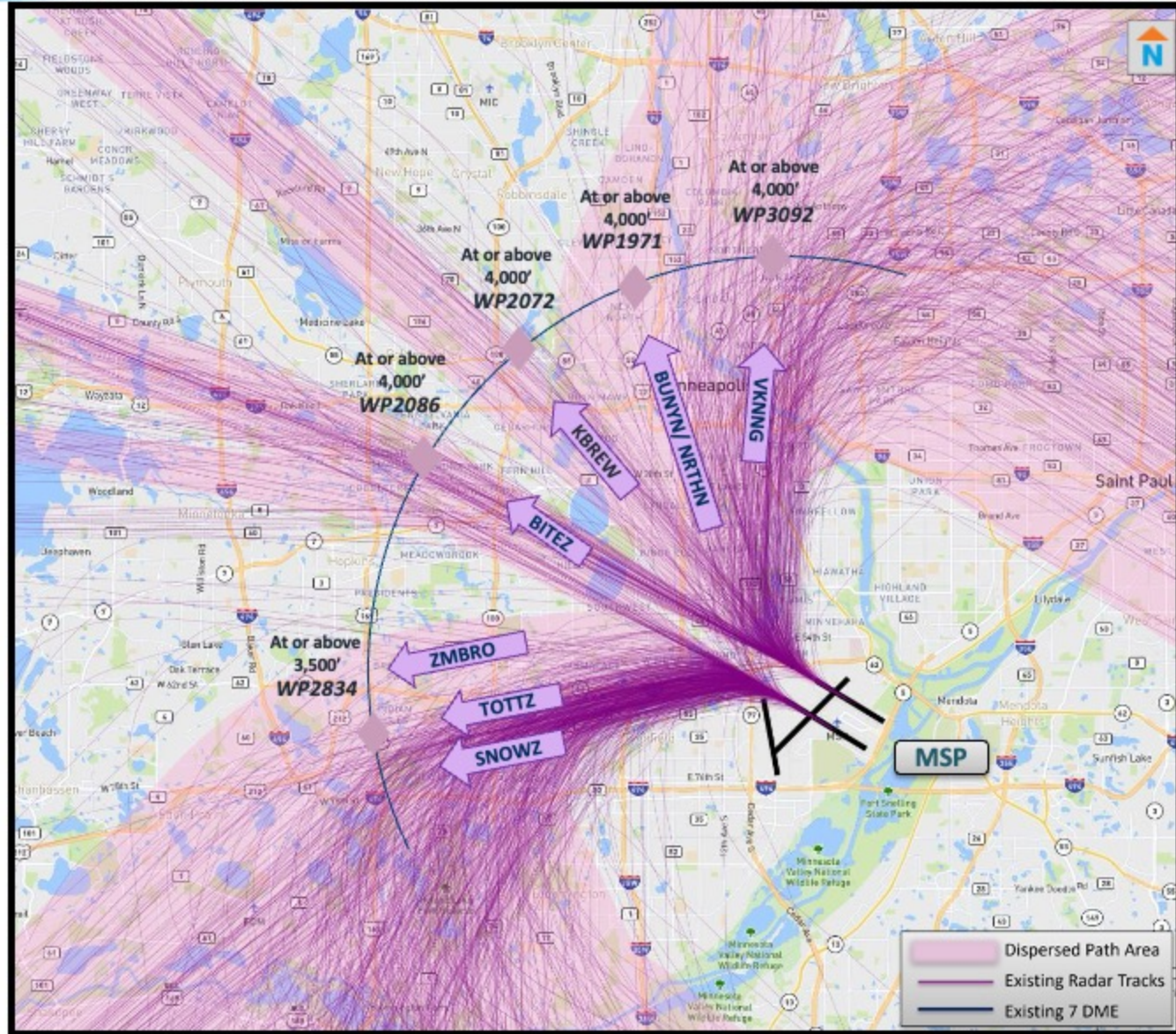




## North Flow Departures Runway 30R & 30L

- This board shows a zoomed-in view of the proposed departures in north flow
- ATC normally assigns a departure procedure based on the most efficient route to the aircraft's destination
- The proposed departure procedures are designed to replicate the current procedures as close as possible, including aircraft dispersed on initial headings

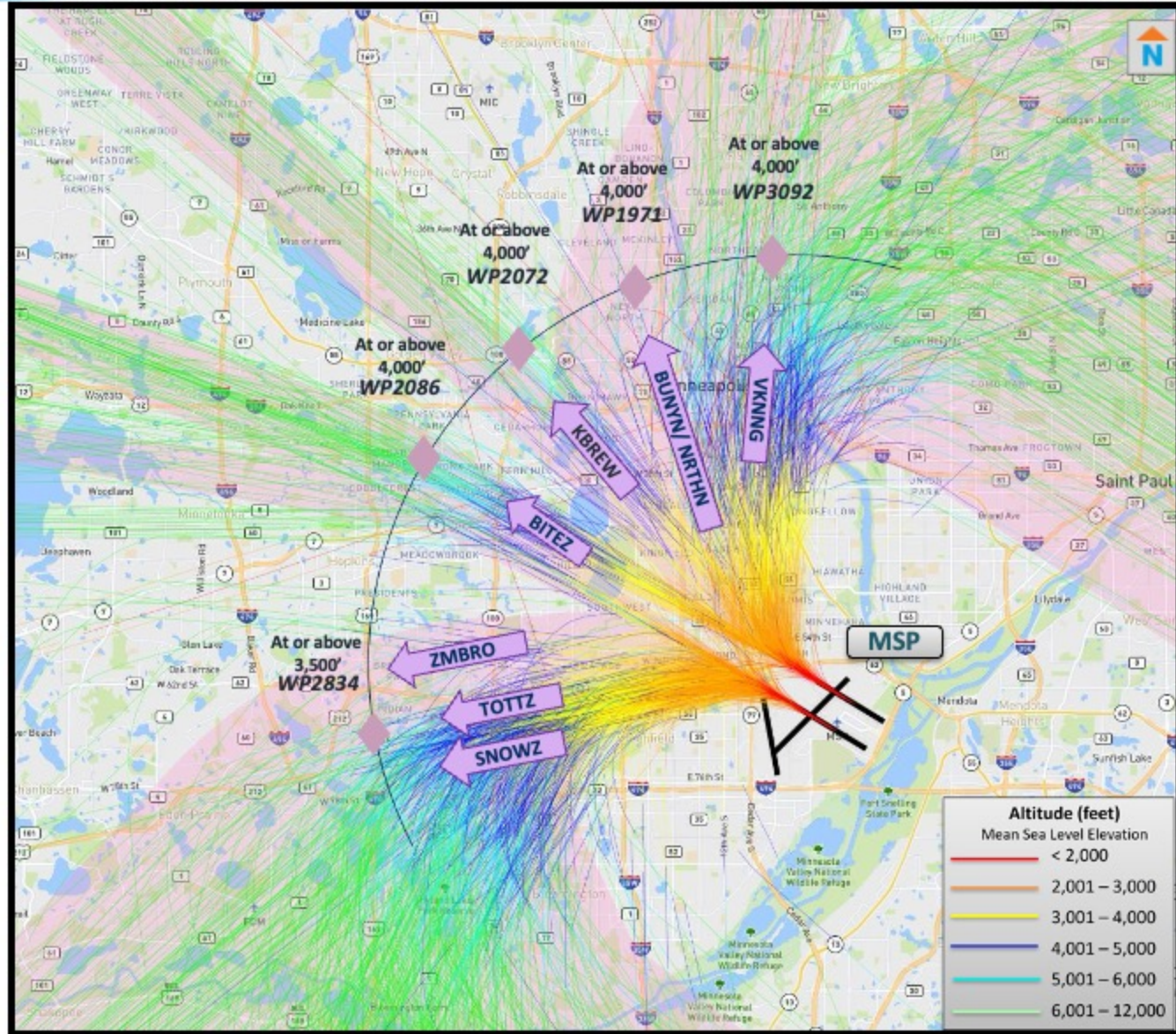




## North Flow Departures Runway 30R & 30L

- This board shows a close-in version of proposed north flow departure procedures
- Aircraft will be issued a departure procedure based on destination
- Once aircraft take off and are at a safe altitude, ATC may turn aircraft on course, before reaching the initial waypoints, when it is operationally safe
- The waypoints are in the approximate area of the existing 7 DME arc, shown in blue
- The proposed procedures will mimic how aircraft depart MSP today, providing dispersion of flight tracks

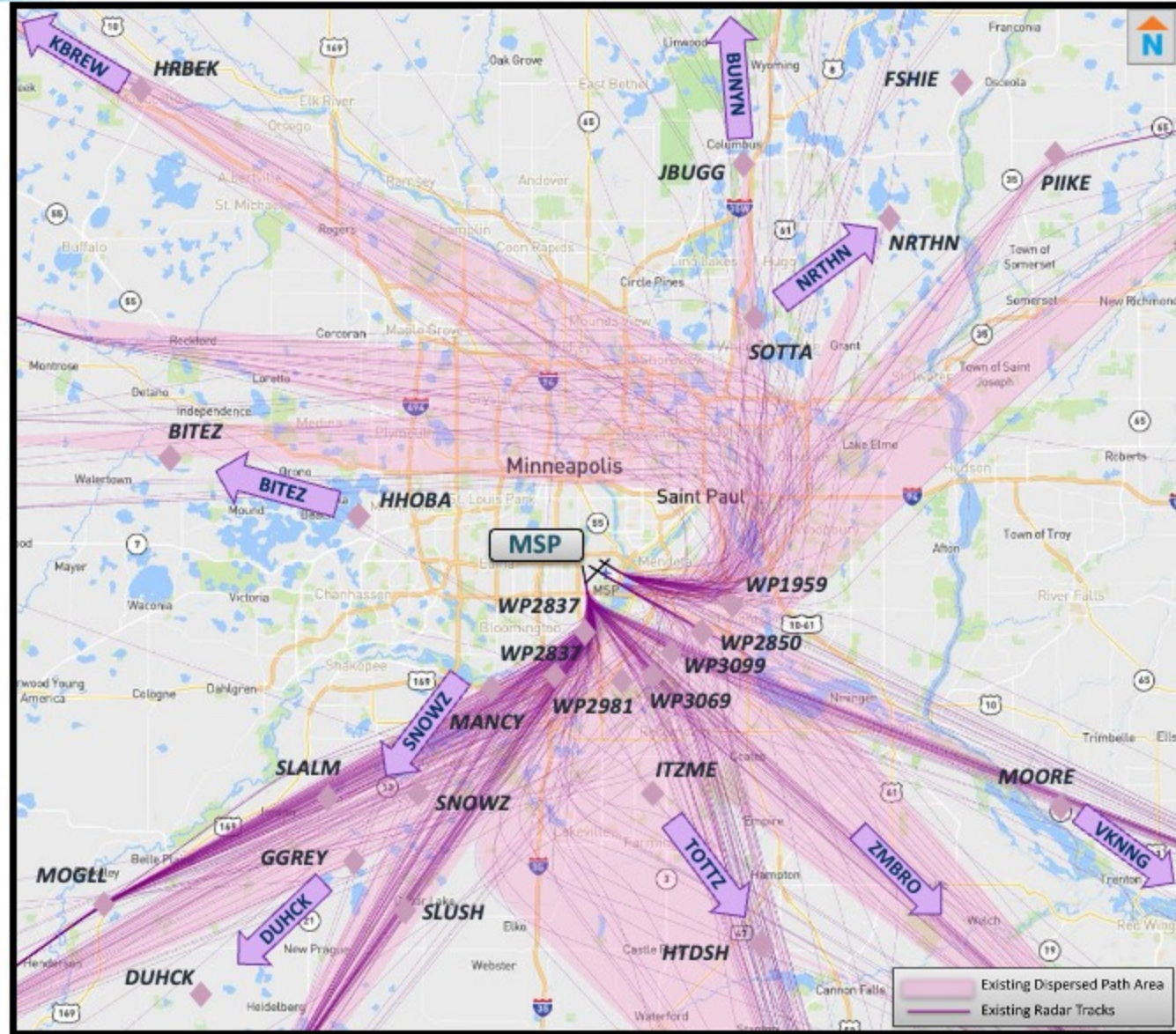




## North Flow Departures Runway 30R & 30L

- This board shows a close-in view of proposed RNAV vector SIDs with existing flight tracks
- Existing aircraft flight tracks are shown color coded by altitude
- The proposed procedures reduce/eliminate the need to keep aircraft lower on departure, they may climb unrestricted
- The proposed procedures allow ATC to give an aircraft a heading and altitude to follow, reducing the need for progressive instructions

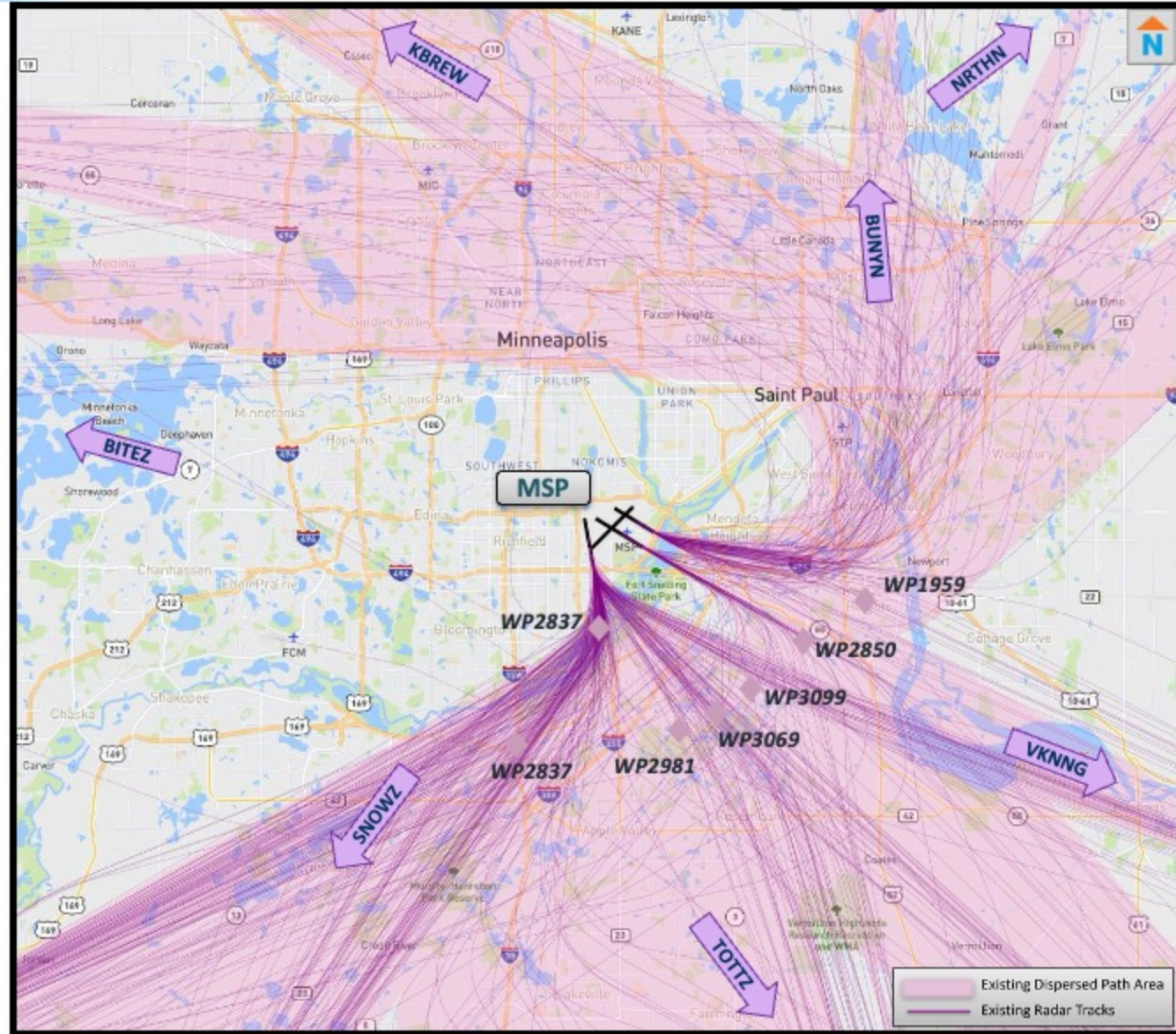




## South Flow Departures Runway 12R & 12L, 17

- This board shows aircraft departing on SIDs from Runway 12R and 12L and Runway 17
- Aircraft departing Runway 12R and 12L will continue to use the Eagan-Mendota Heights Corridor
- Use of the Eagan-Mendota Heights Corridor maintains the Crossing-in-the-Corridor noise abatement procedure

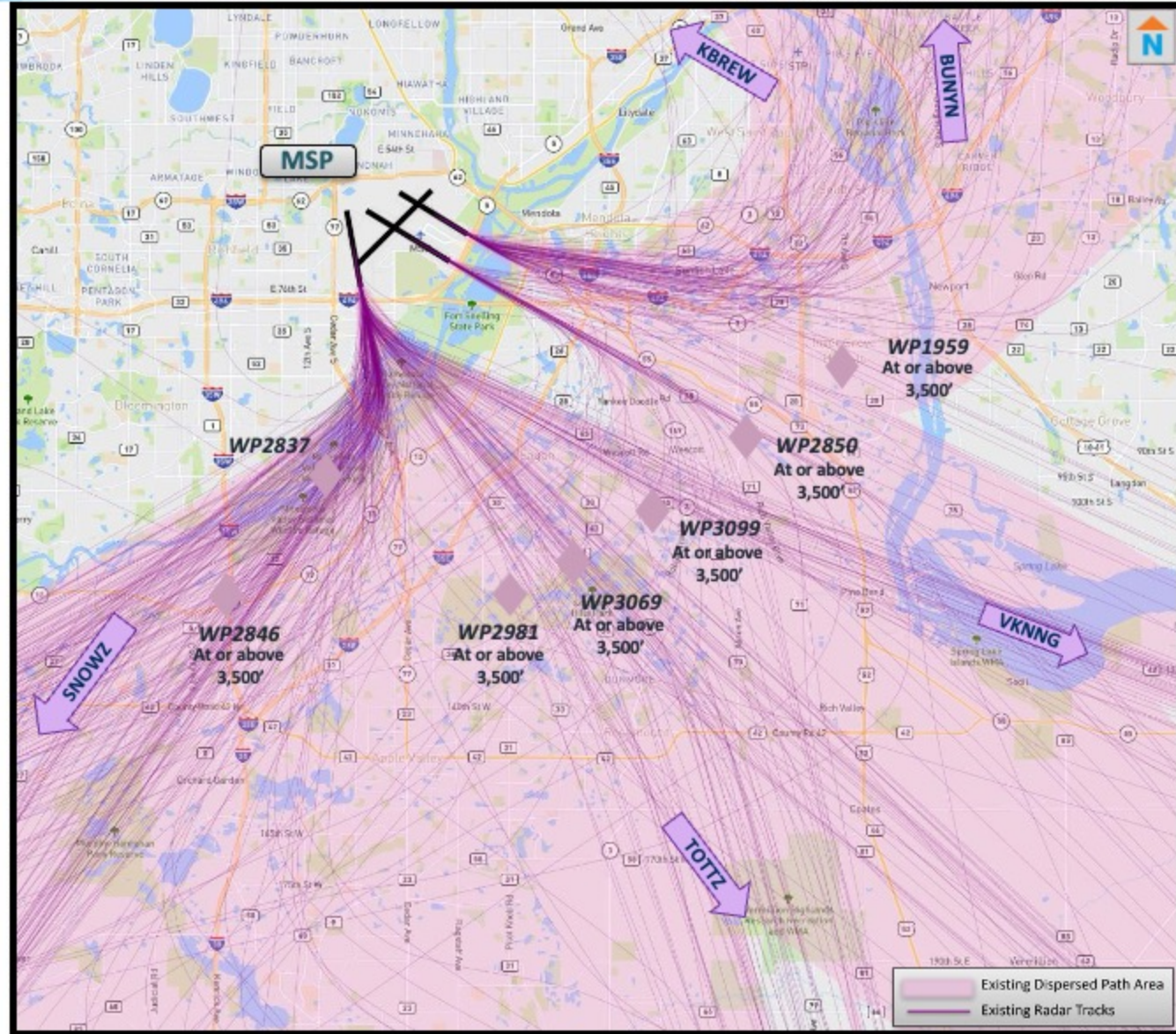




## South Flow Departures Runway 12R & 12L, 17

- Aircraft are assigned an initial heading based on the aircraft destination, operational need, and sequencing of aircraft to maintain required separation
- The proposed initial headings replicate the VOR-based headings currently used to disperse departures
- The proposed procedures were designed to give ATC flexibility to manage air traffic for safety and efficiency, which inherently increases dispersion
- ATC normally assigns a departure procedure based on the most efficient route to the aircraft's destination

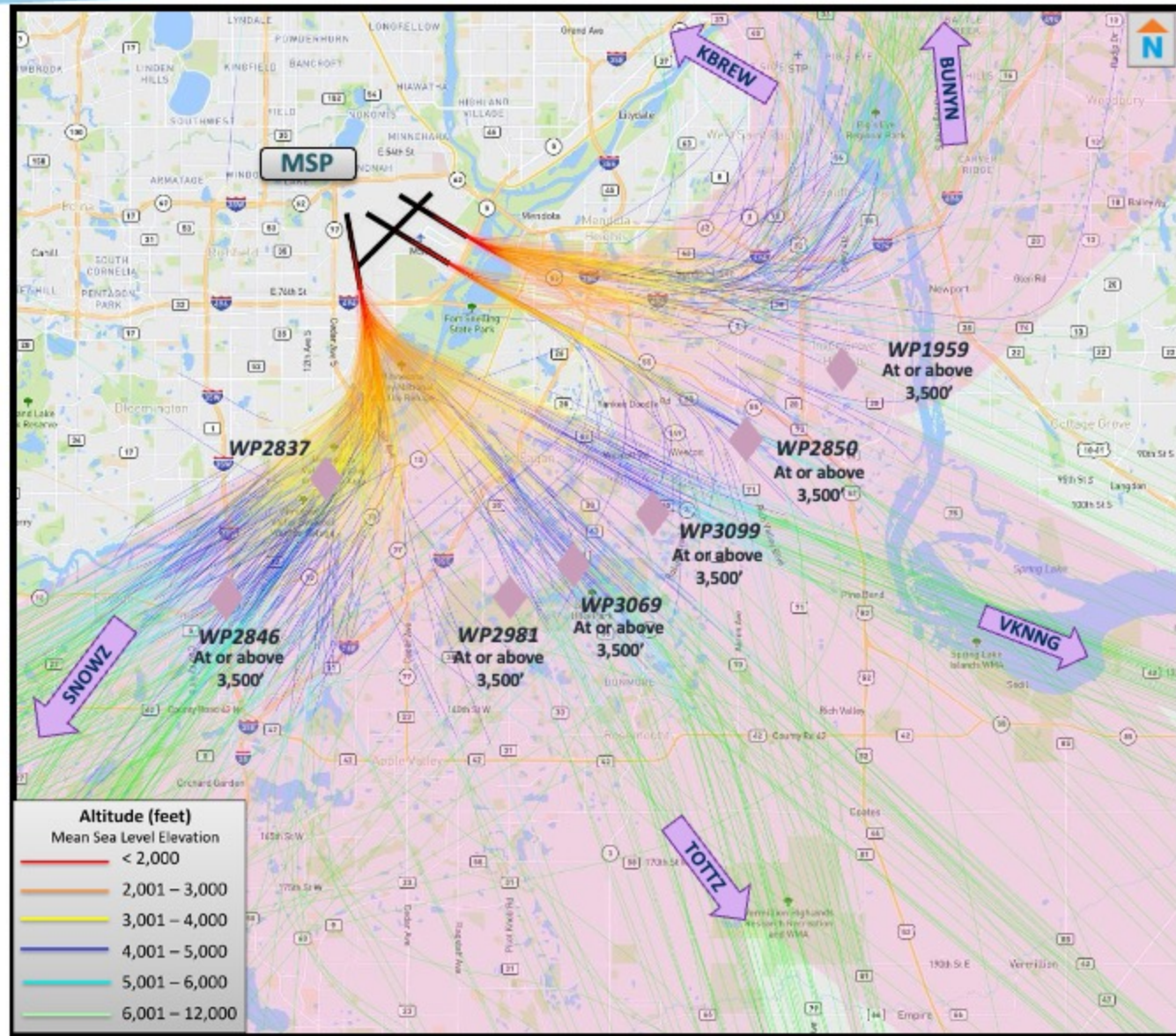




## South Flow Departures Runway 12R & 12L, 17

- This board shows a close-in version of proposed south flow departure procedures and existing flight tracks.
- Once aircraft take off and are at a safe altitude, ATC may turn aircraft on course when it is operational safe
- For aircraft flying to the southwest, the proposed procedures include following the Minnesota River
- The proposed SIDs will provide the necessary separation from arriving aircraft





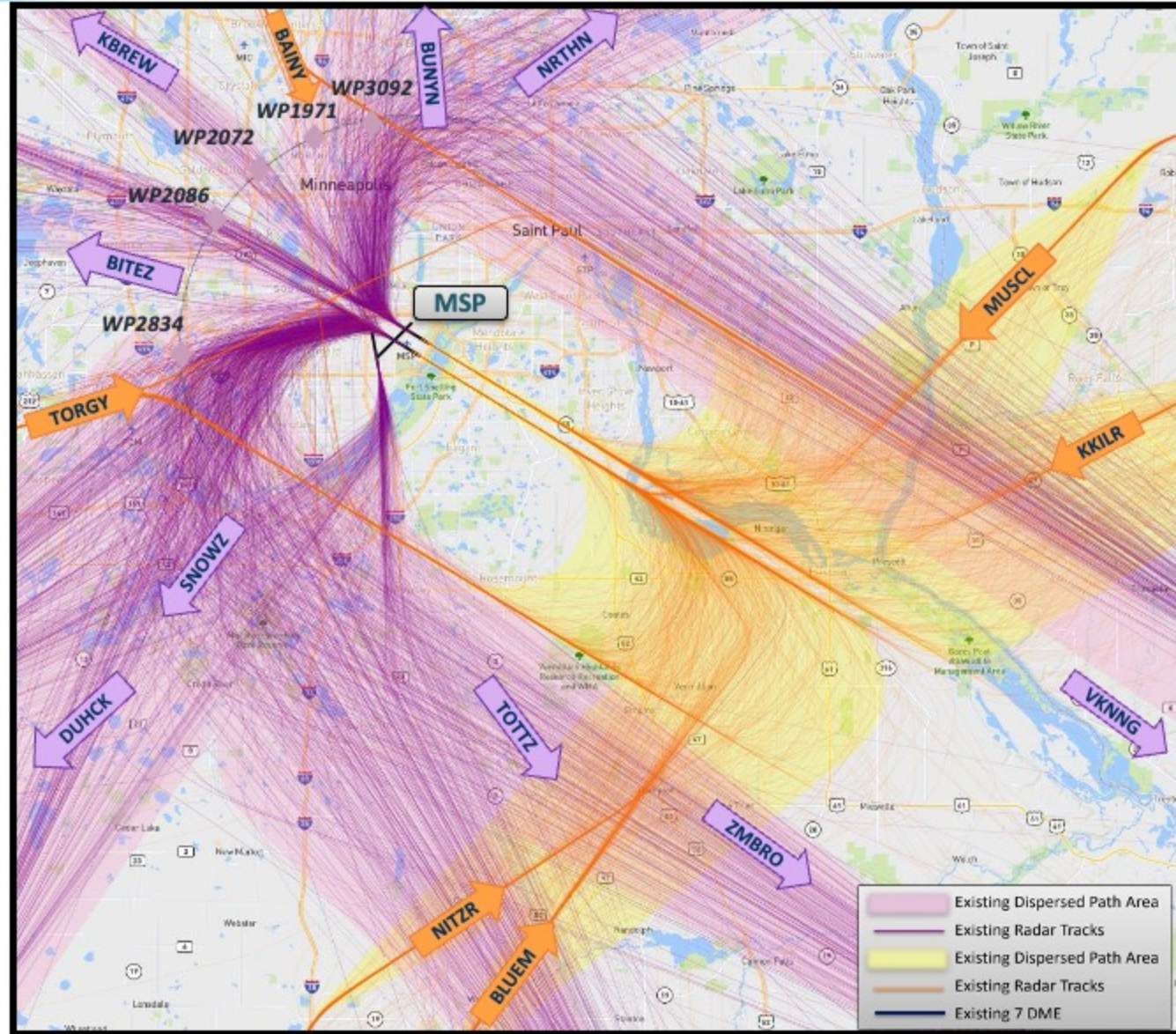
## South Flow Departures Runway 12R & 12L, 17

- This board shows a close-in view of proposed RNAV vector SIDs with existing flight tracks.
- Existing aircraft flight tracks are shown color coded by altitude.
- The proposed procedures reduce/eliminate the need to keep aircraft lower on departure, they may climb unrestricted
- The proposed procedures allow ATC to give an aircraft a heading and altitude to follow, reducing the need for progressive instructions.





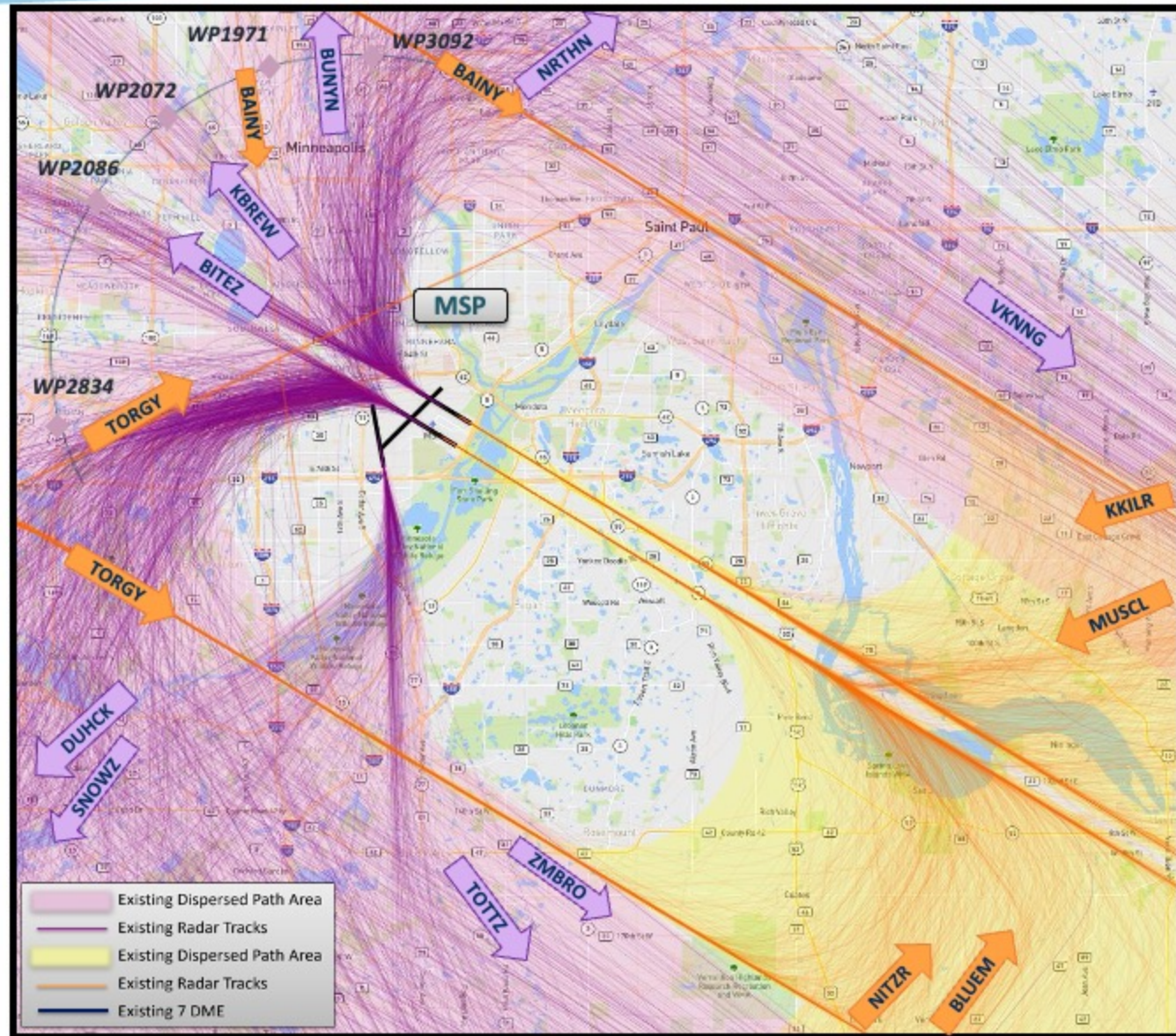




## Mixed Flow Arrivals & Departures Runway 30L & 30R Departures Runway 17

- This board shows a zoomed in view of Mixed A flow
- In this operational flow, aircraft will land to the north and take off to the southwest and north
- Aircraft will also use the Eagan Mendota Heights corridor to land





## Mixed Flow Arrivals & Departures Runway 30L & 30R Departures Runway 17

- This board shows the operational flow called Mixed A.
- In this operational flow, aircraft will land to the north and take off to the southwest and north
- Aircraft departing to the southwest will fly over the river