JWA and NextGen

Newport Beach City Council – Study Session Tuesday, September 26, 2017

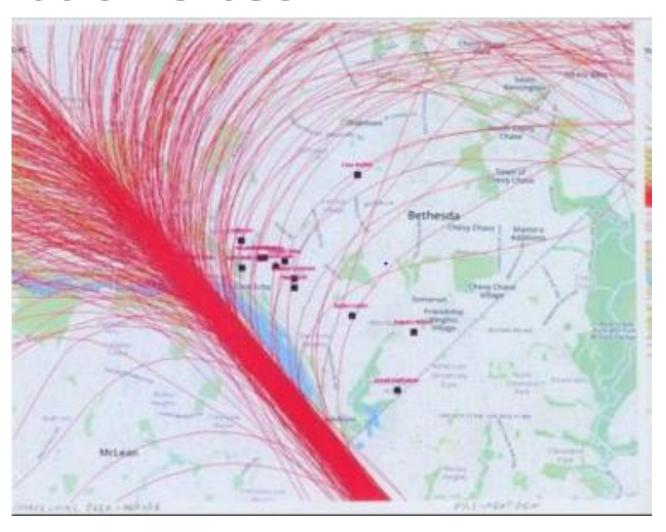
City's GOALS

- Protect our quality of life
- Protect the Settlement Agreement
- •Get flights down the middle of the Upper Bay.
- Continue to pursue via FAA litigation
- Take a new look at noise, altitudes
- Involve the community more
- Get complaints to the FAA
- •Follow our Airport Policy (A-17)

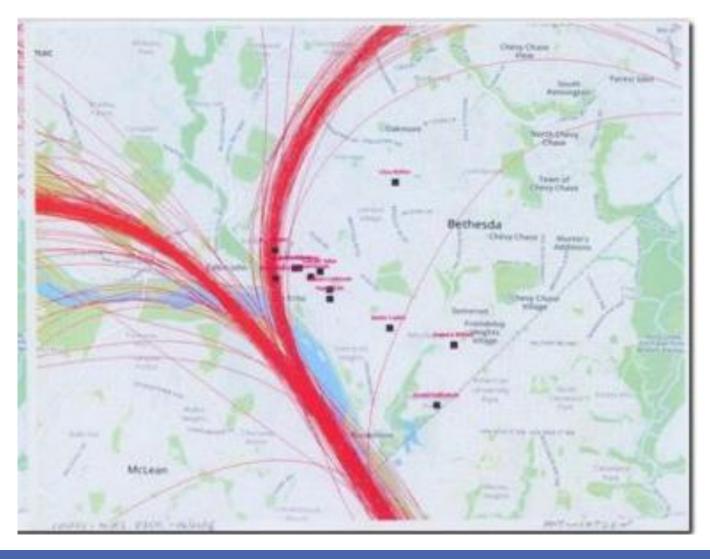
What is NextGen?

- •An FAA Modernization Program (to which we objected!)
- Happening Nationwide
- "Area Navigation" or RNAV
 - Less fanning, more narrowing
 - Per FAA: More safety, predictability, repeatability, efficiency
- •JWA one of 21 Airports w/changes just in Southern CA

What is NextGen?



What is NextGen?

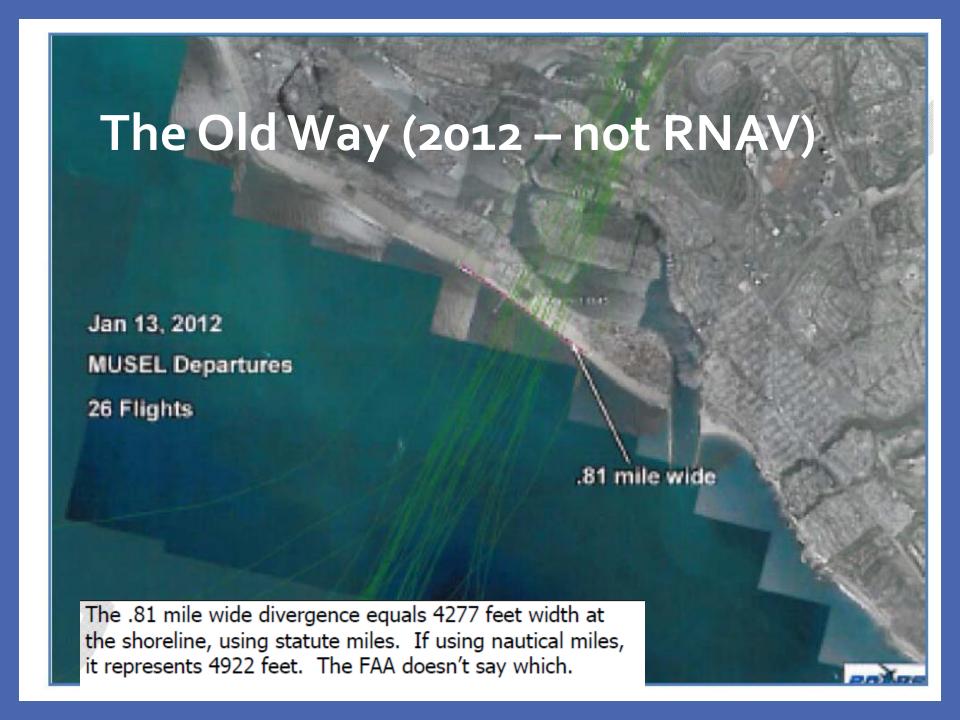


Some Common NextGen/JWA Questions

- Current NextGen Routes
 - When did they change, and why?
 - Can the problems with PIGGN, HHERO, and FINNZ be fixed? If so, how and how fast?
 - What's with the mysterious STAYY procedure?
- Noise and the Noise Abatement Departure Procedures
 - Are they used anymore? If not, why not?
 - Are the new routes hitting the noise monitoring stations?
 - How do we know that the NMSs are accurate?
- Why did the City file suit against the FAA in October 2016?
- How can things be sped up?

JWA Settlement Agreement

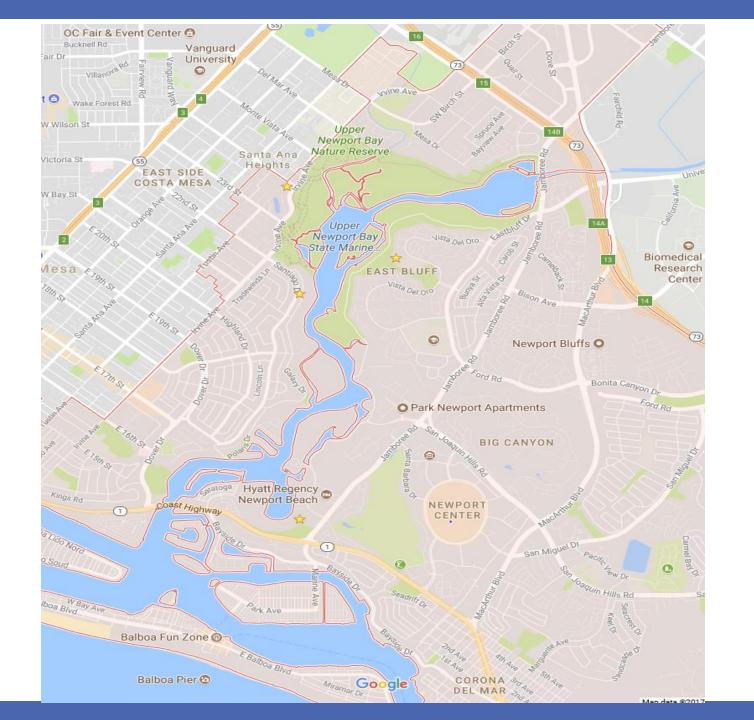
- Four parties County, City, AWG, SPON
- Started in 1985. ANCA enacted 1990.
- Curfew. No changes to curfew through 2035
 - Commercial carrier departures only 7:00 a.m. to 10:00 p.m. (8 on Sun)
 - No arrivals after 11:00 p.m.
- Cap on passengers
 - Right now, 10.8 MAP through 2020;
 - Goes to 11.8 MAP in 2021-2025, then 12.2/12.5 MAP in 2026-2030
- Cap on Loudest Commercial Flights/Day (Class A)
 - Right now, 85 "average daily departures" per day.
 - Goes to 95 per day in 2021
- Noise limits first set in 1985 are set in dB at each of 10 Stations.
 - Class A limits higher than Class E limits



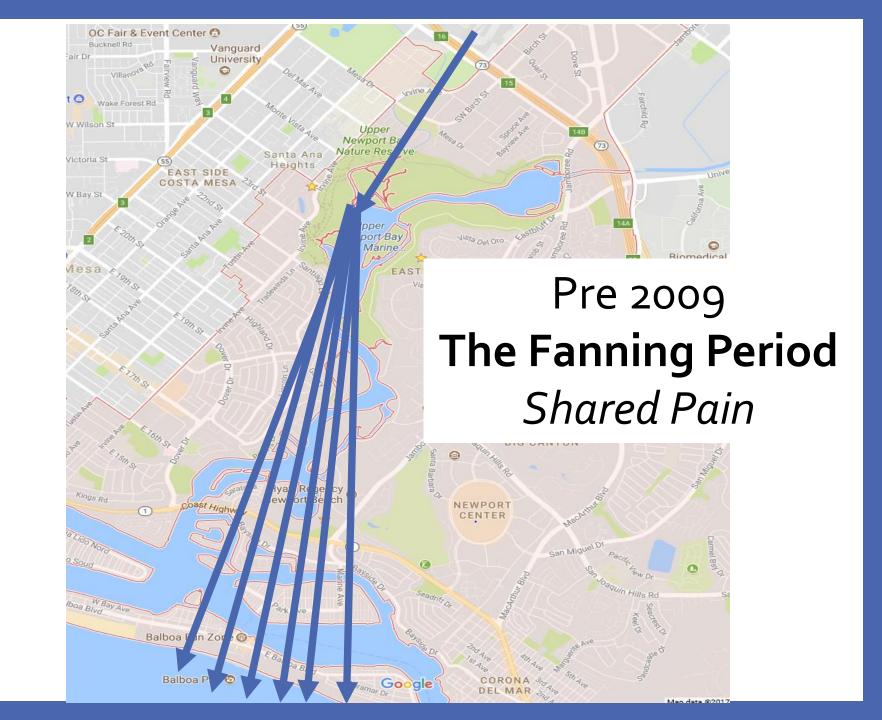


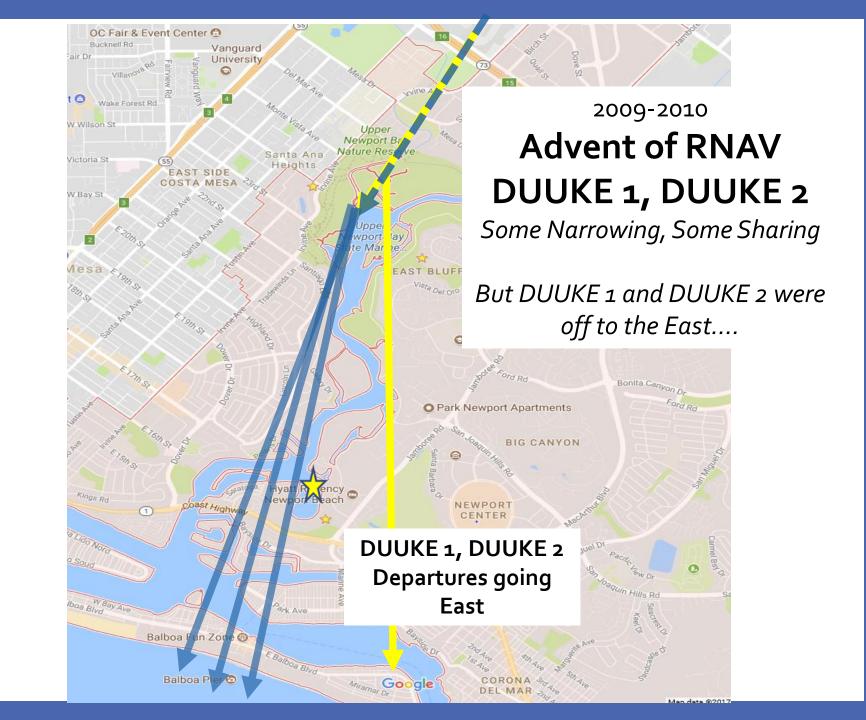
WHAT HAPPENED?

Short history of NextGen at JWA

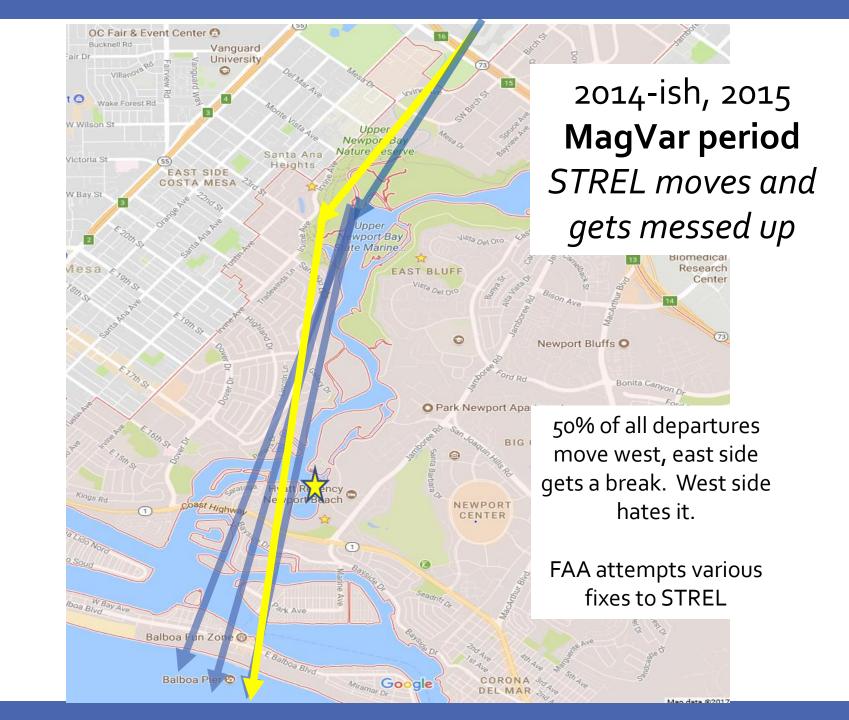






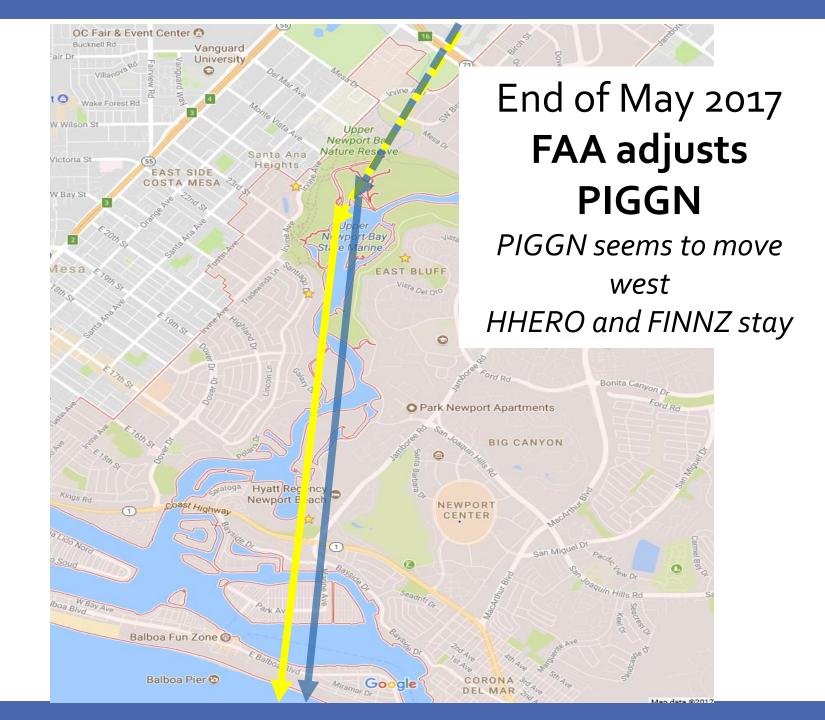


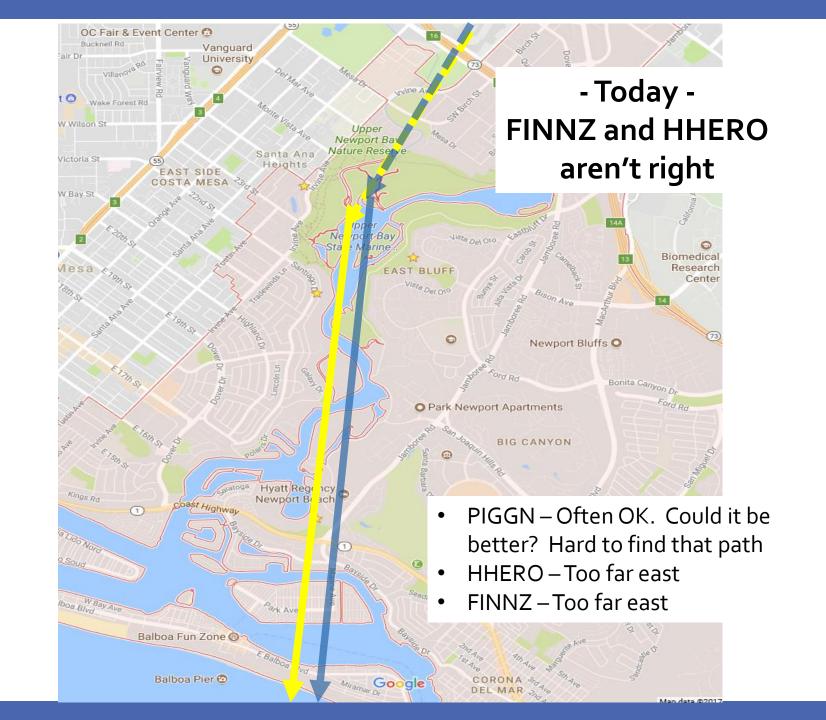












WHAT'S COMING







Our Takeaways

- •October 12, 2017
 - FAA adjusts HHERO could still be delayed. Need to watch it.
- December 7, 2017
 - FAA adjusts FINNZ.
- Also December 2017
 - Possible implementation of the STAYY
 - Will it work? Will turns be noisy?
 - Will pilots use it?
- City's Goals: get FAA to fix FINNZ and HHERO. Watch STAYY carefully.

ABOUT NOISE AND THE NADPS

7 Noise monitoring stations (on the departure corridor)

NMS-1S: Golf Course, 3100 Irvine Ave., Newport Beach

NMS-2S: 20162 S.W. Birch St., Newport Beach

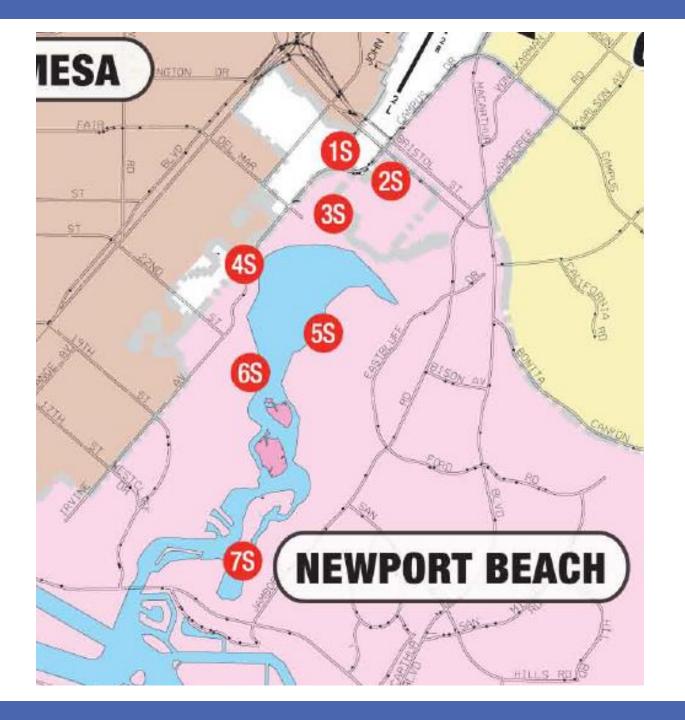
NMS-3S: 2139 Anniversary Lane, Newport Beach

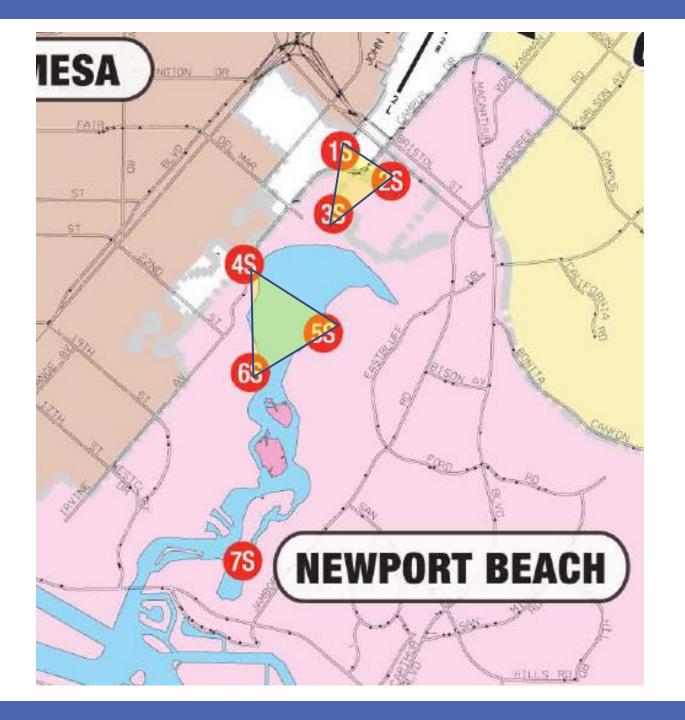
NMS-4S: 2338 Tustin Ave., Newport Beach

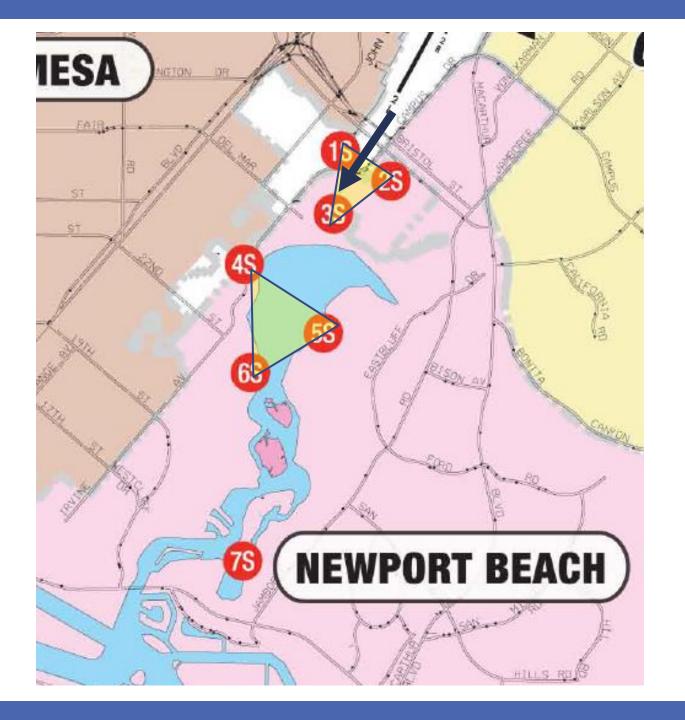
NMS-5S: 324 ½ Vista Madera, Newport Beach

NMS-6S: 1912 Santiago, Newport Beach

NMS-7S: 1131 Back Bay Drive, Newport Beach

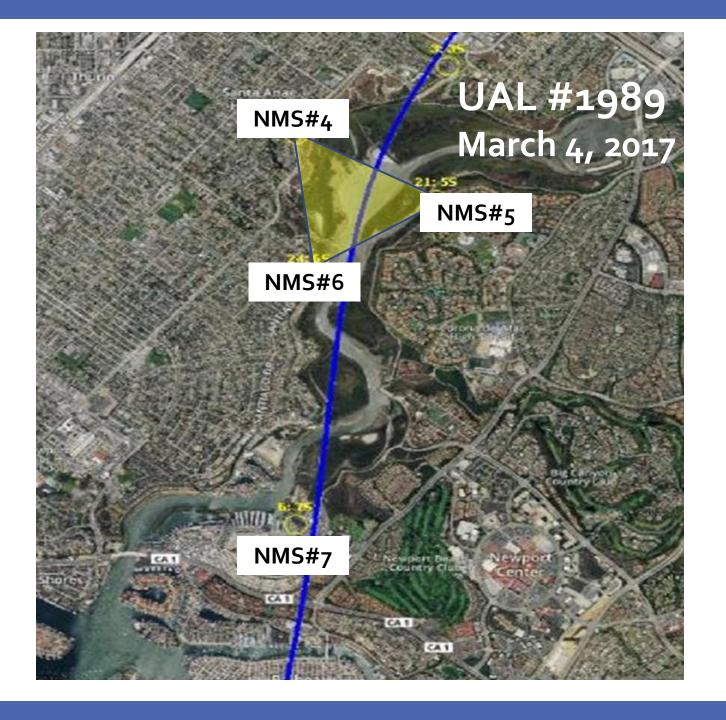


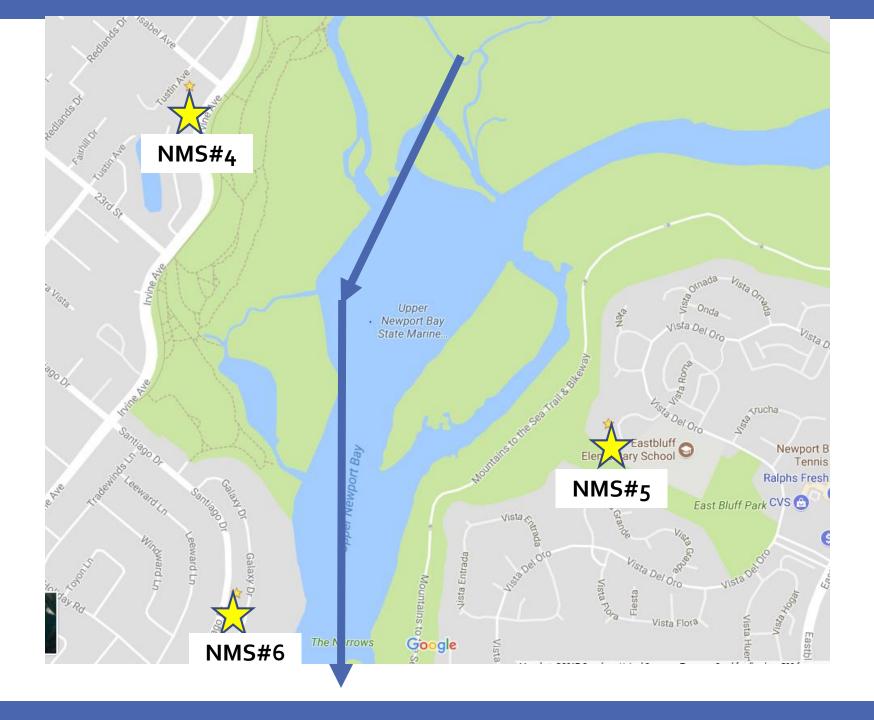


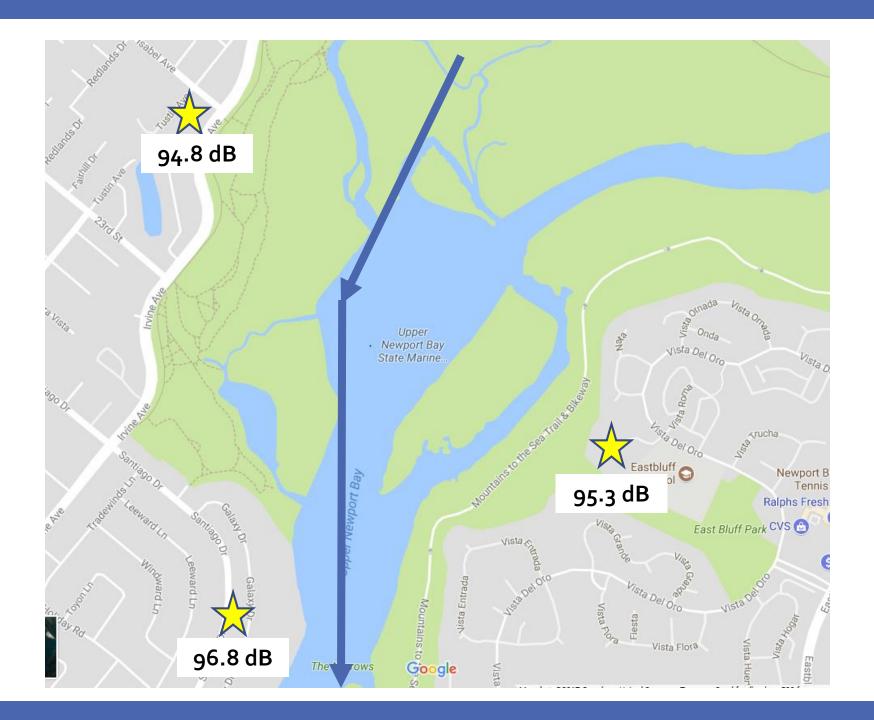


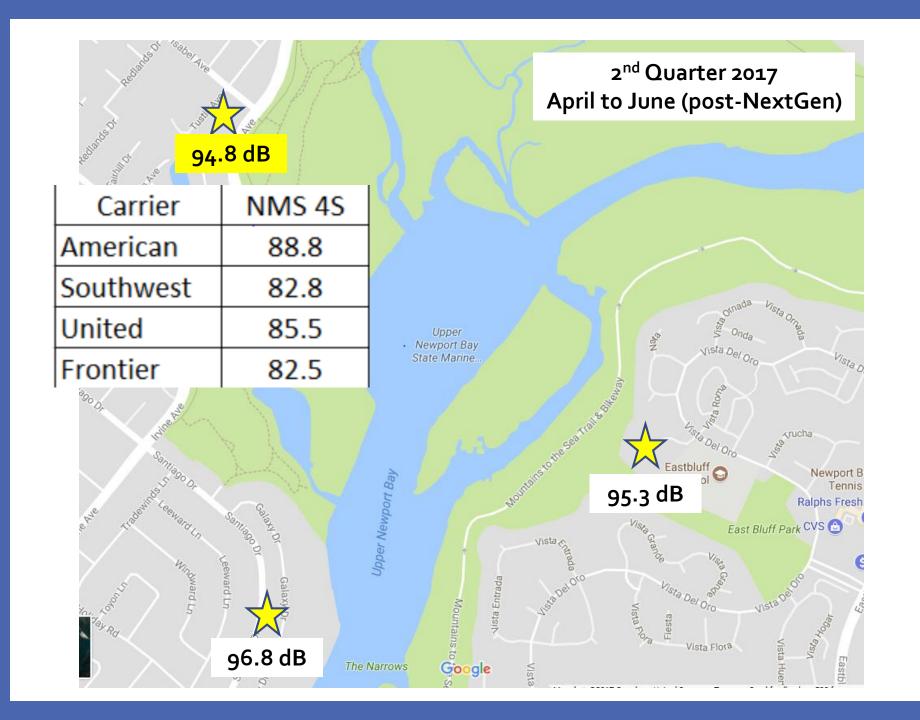


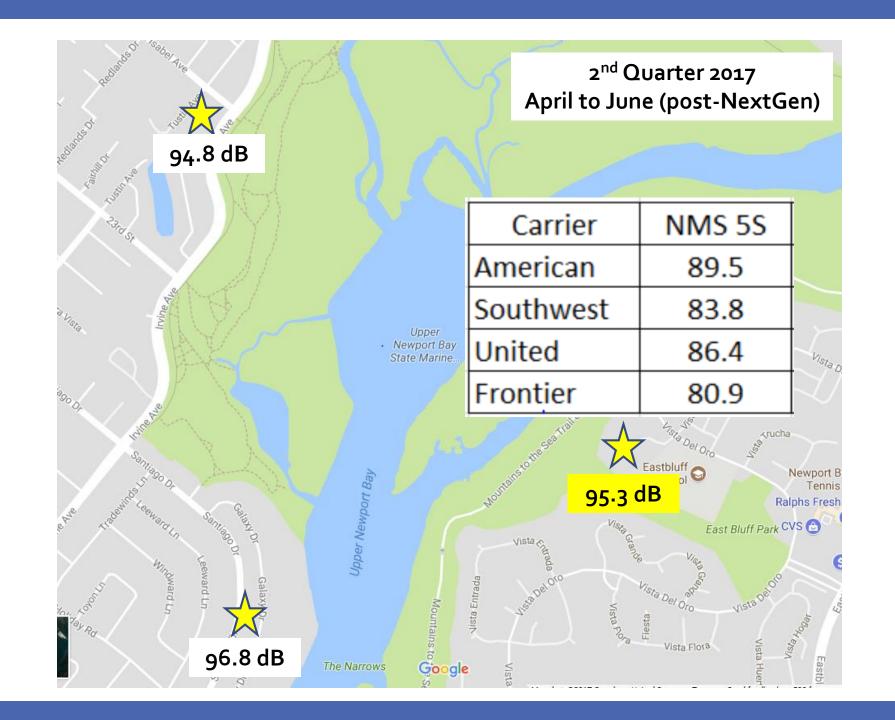


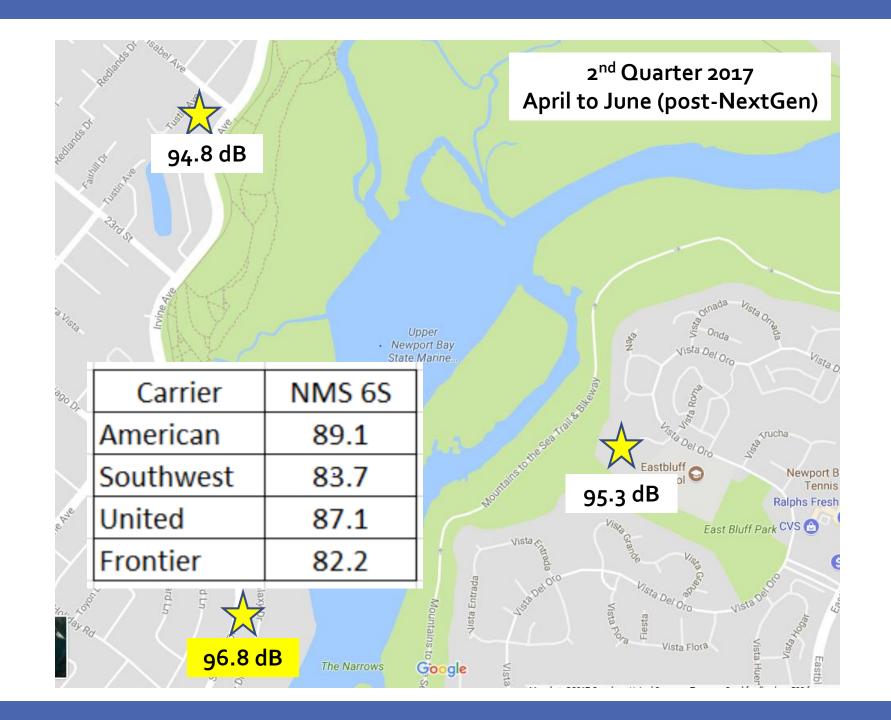


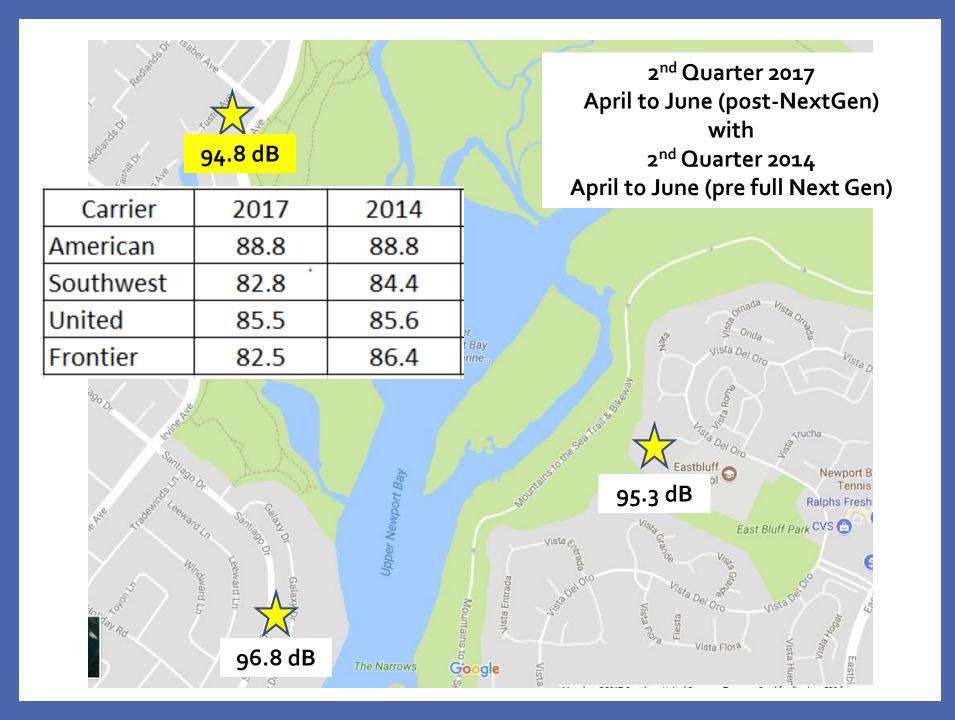


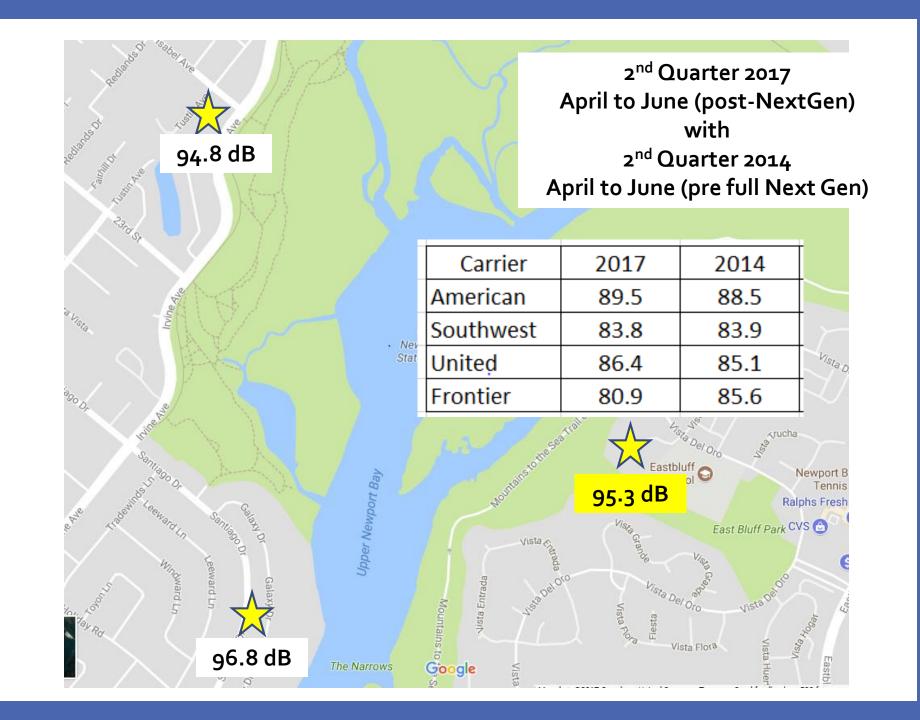


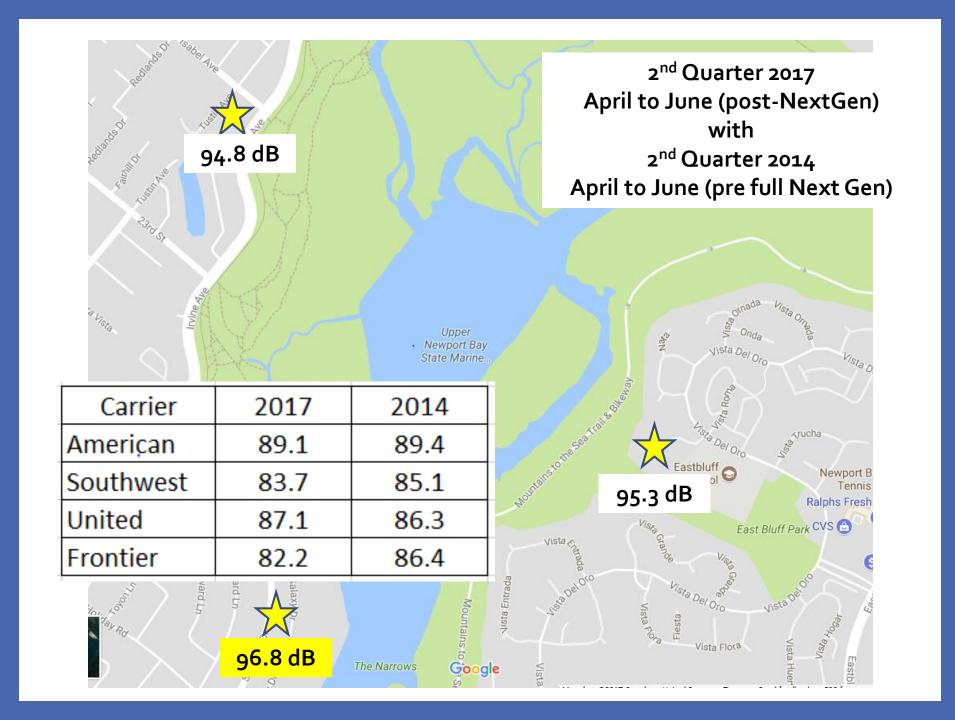


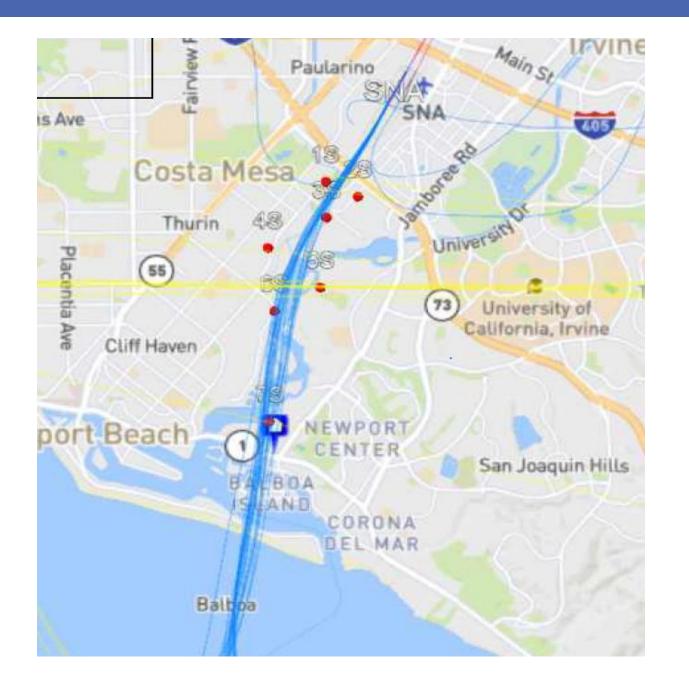








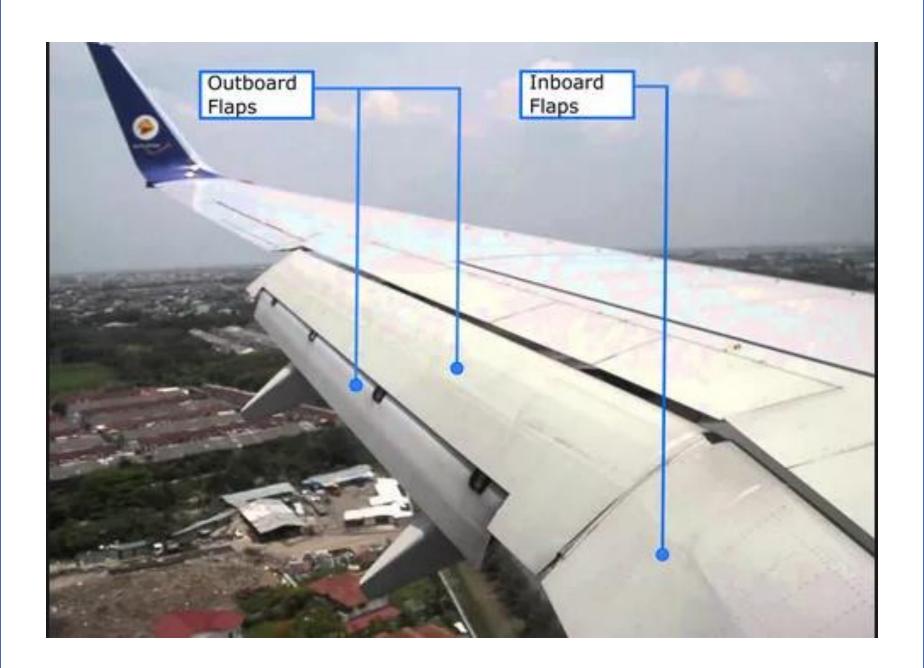




NADPS

About the Noise Abatement Departure Procedures (NADPs)

They are FAA guidance, and not required



There are two NADPs (!)

Close-In

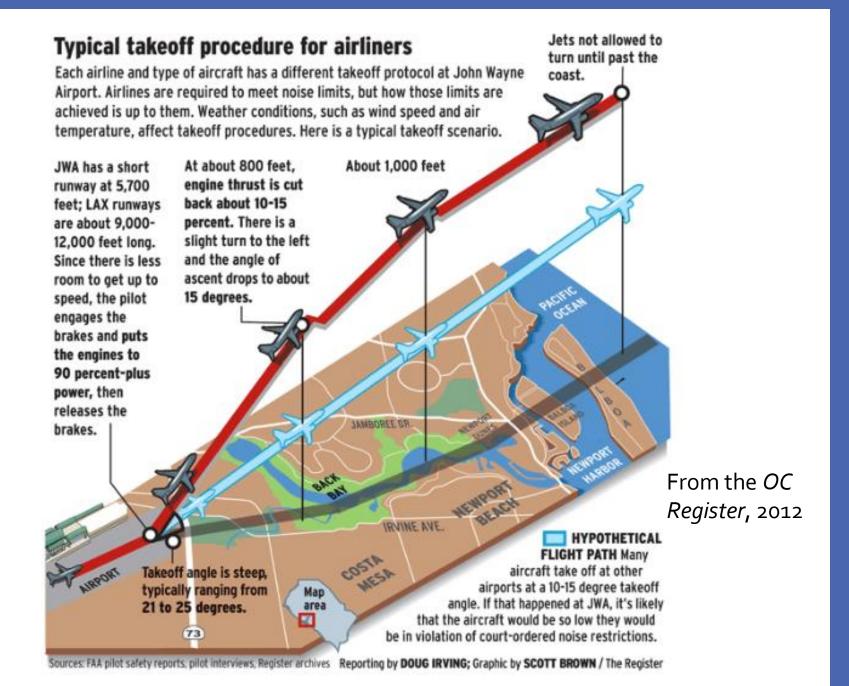
- 1. Cut back the Power
- 2. Retract (pull in) Flaps

Faster Climb near runway area

Distant

- 1. Pull in Flaps
- 2. Cut back the Power

Less steep climb near Runway, can be higher later



Why Use One v. the Other?

Close-In

- Flying out as Class E
- Older plane
- Heavier plane

Distant

- More modern engine, modern plane body
- Lighter plane

Both are acceptable and approved by the FAA (in 1991). Airlines develop own procedures based on aircraft performance. In 2008 (ARTS study), all major carriers reported using Close-In NADP, as tailored to their aircraft type at the time.

Who's Using what NADP now?

Carrier	Туре	Close In	Distant
American	737-800		V
Southwest	737-700, 800	$\overline{\checkmark}$	
United	A320		$\overline{\checkmark}$
Frontier	A320n	$\overline{\checkmark}$	

Our Takeaways on Noise and NADPs Facts:

- Stations' dB limits set in 1985 cannot be adjusted downward (ANCA)
- Stations cannot be moved (also ANCA can be perceived as a further restriction based on noise)
- Carriers can choose Close-in or Distant NADP.
- Distant NADP is being used more often than in 2008.
- Future hope the **Airbus A320 neo** is a significantly quieter plane. We expect the Boeing 737-800 MAX to perform similarly.

Our Takeaways (noise/nadps) City's Goals:

- •Planes should be higher, when still safe.
- •To that end, update the 2008 ARTS Study to see what options we have, if any.
- •Fix FINNZ and HHERO.
- •Monitor the monitors 3rd party review of County's September 2017 annual calibration of NMSs.

LITIGATION

Why we sued the FAA – Oct '16

- Inadequate environmental review
- Didn't look at Air Quality, Noise and GHG in detail.
- Way too vague descriptions of impact areas
- Didn't involve the community in departure corridors
- Wasn't clear about the role of the Settlement Agreement, especially in relation to noise.

From the FAA's MetroPlex EA



WRAP-UP (AND SPEED UP)

What can we do to speed up the changes?

City's GOALS

- Protect our quality of life
- Protect the Settlement Agreement
- •Get flights down the middle of the Upper Bay.
- Continue to pursue via FAA litigation
- Take a new look at noise, altitudes
- Involve the community more
- Get complaints to the FAA
- •Follow our Airport Policy (A-17)

Implementing the Goals

- Tonight's resolution sent to FAA
- Continue to let your concerns be known (we'll help):
 - City website then TRENDING then "NexGen Departures..."
- October 12, 2017 changes to HHERO
- Watch those changes, along with December '17 changes to FINNZ
- Implementation of the STAYY who'll use it? Will it work?
- Update the 2008 ARTS study more noise knowledge
- Update County's JWA Altitude Study (Fall 2017)
- Aviation Committee
- Council will be updated on the FAA litigation regularly.

Our Staff & Consultants

Legal

- Aaron Harp, City Attorney
- Andrea Leisy, Remy Moose & Manley Environmental Law

Noise

- Harris, Miller, Miller & Hansen (HMMH)
- ASRC Research and Technology Solutions (ARTS, 2008)

Departure Profiles

- HMMH
- GE/Naverus
- Wayne MacKenzie, ATMCI

Ombudsperson

- Thomas C. Edwards
- Air Quality & Environmental Effects
 - Dr. Karleen A. Boyle (2009)
 - RAMBOL Environ (2016)
- Overall Policy
 - Newport Beach City Council
 - Dave Kiff, City Manager

Contact Information

- Learning more:
 - <u>www.newportbeachca.gov/jwa</u>
 - FAA So Cal MetroPlex site: (use Google)
- Expressing your concerns to the FAA:
 - Website then "TRENDING" then Next Gen Departure Concerns
 - http://www.newportbeachca.gov/trending/nextgen-departure-concerns
- JWA Noise and Access Office
 - NoiseInfo@ocair.com or 949-252-5185
- Call or e-mail the City Manager
 - Dkiff@newportbeachca.gov
 - 949-644-3001
- Contact the City Council
 - <u>CityCouncil@newportbeachca.gov</u>