

NAV CANADA SERVING A WORLD IN MOTION





Toronto Pearson (CYYZ): Area Navigation (RNAV) Standard Instrument Departure (SID)

- Addition of RNAV SID procedures
- The phases of a CYYZ RNAV SID procedure
- What will we be publishing on November 13th, 2014?





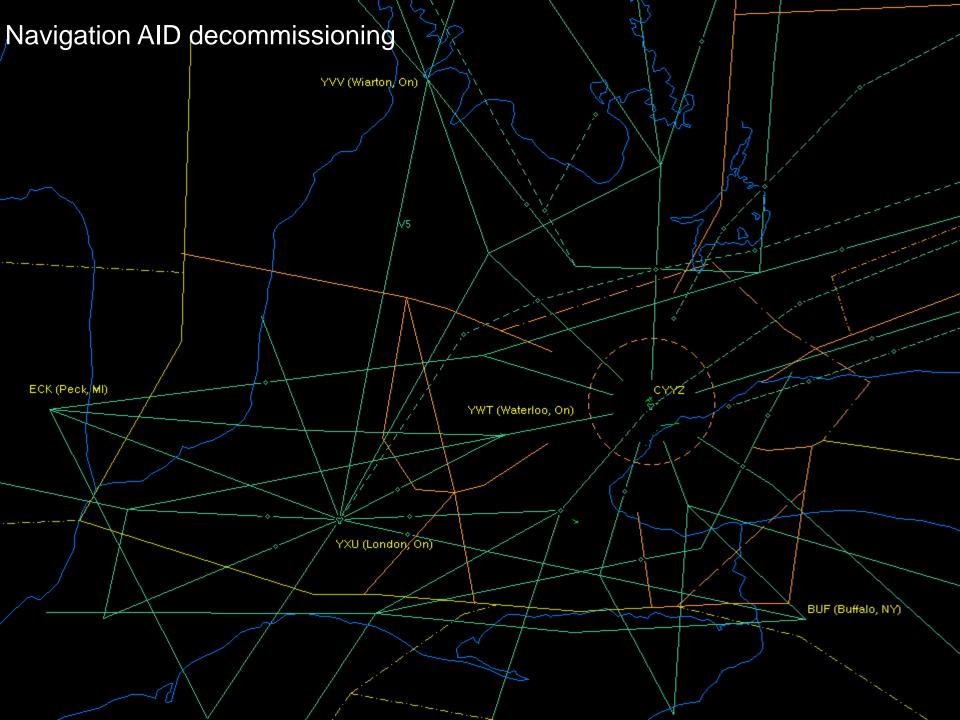


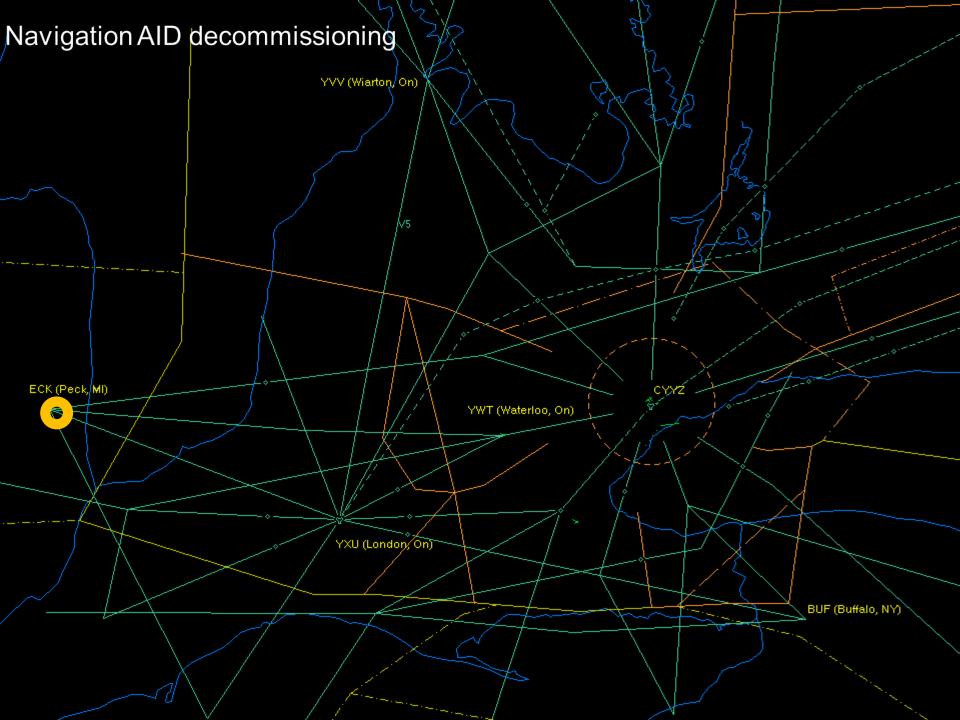
Why are we adding more RNAV SID procedures?

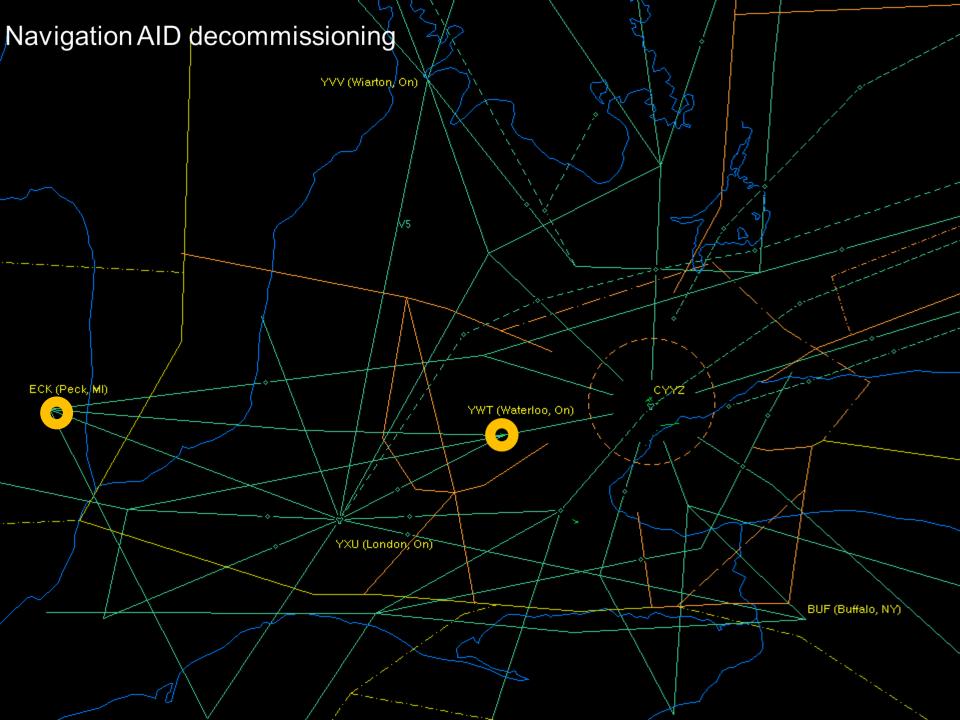
- Changes in technology
 - Flight Management System (FMS)
 - Area Navigation (RNAV)
 - Global Positioning System (GPS)
- Decommissioning of Navigation Aids (NAVAID)
 - Federal Aviation Administration (FAA)
 - NAV CANADA

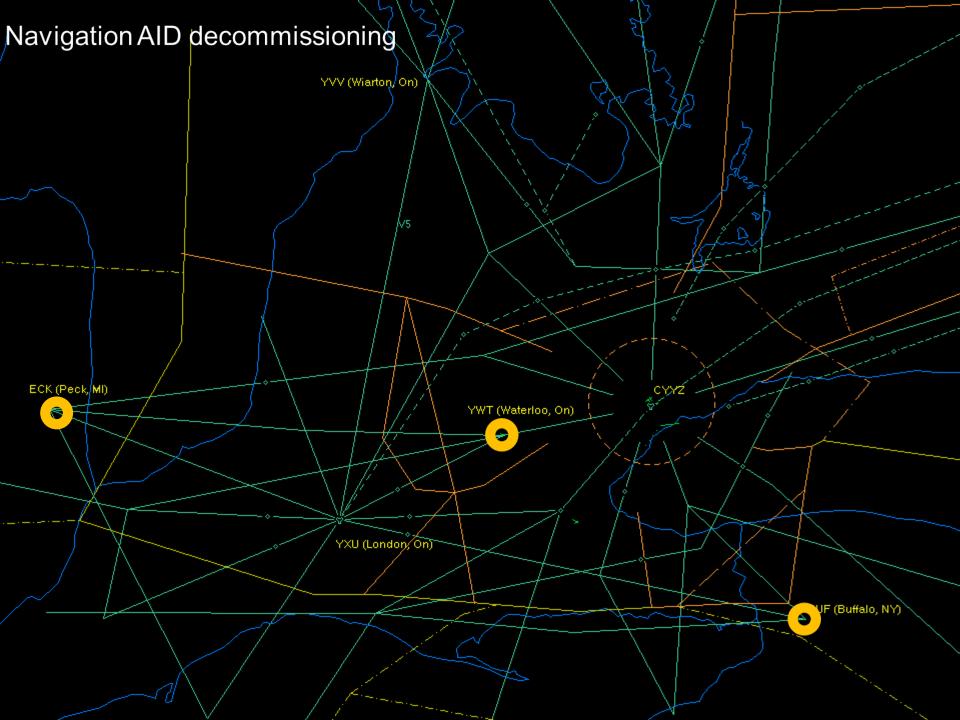


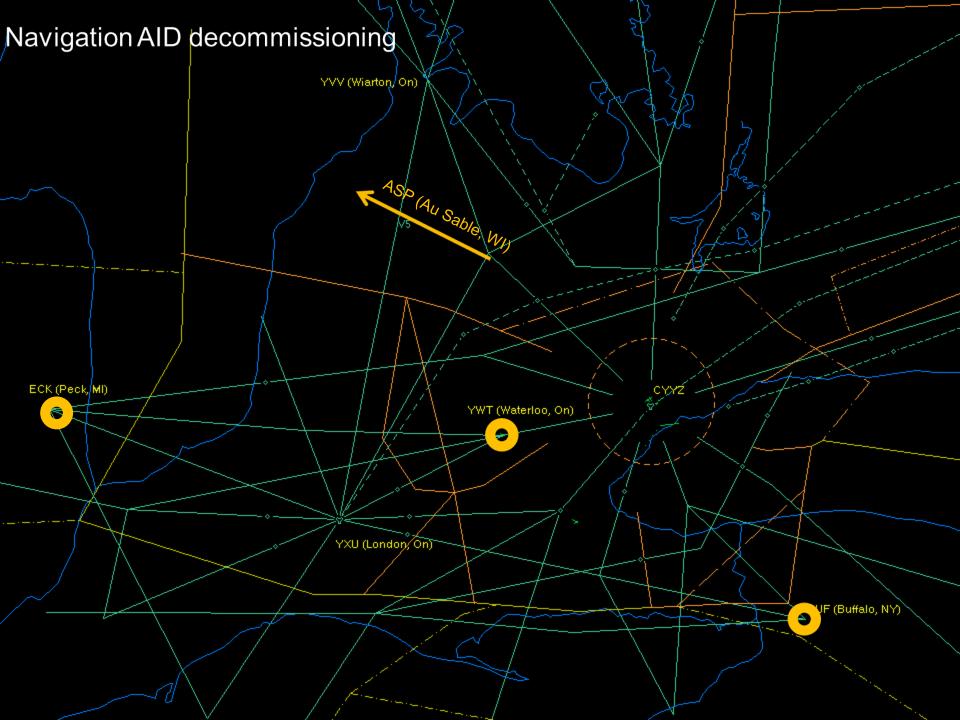


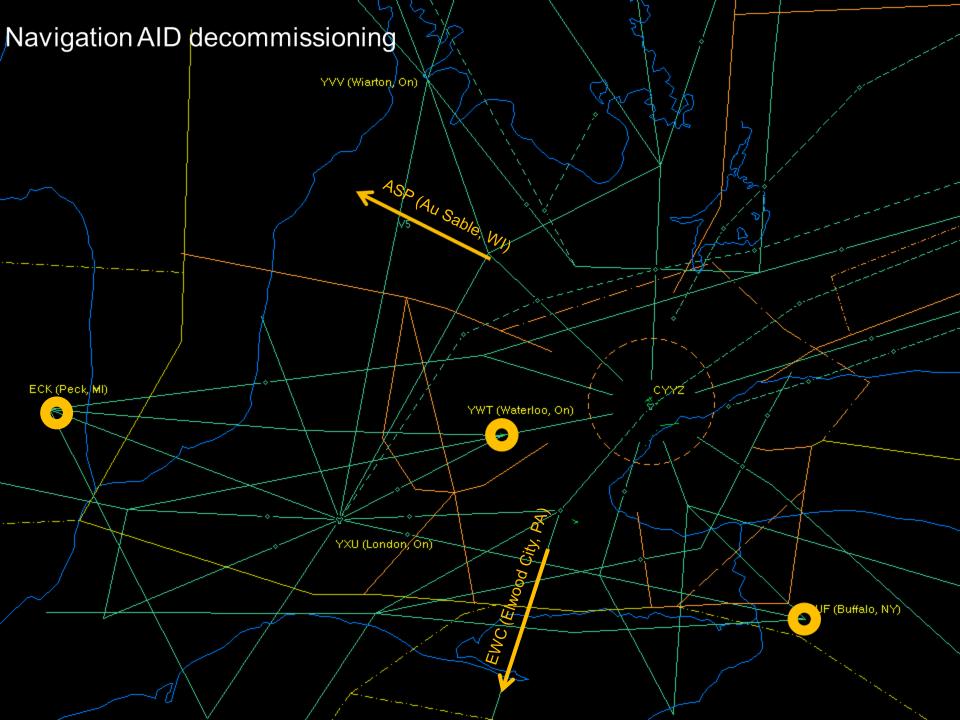


















Why are we adding more RNAV SID procedures?

- We need to create a system that is able to provide guidance without the reliance on ground based NAVAIDs
 - We need to use the new technology
 - We need to be able to adapt to future changes
 - We need to ensure that we integrate with the FAA route structure













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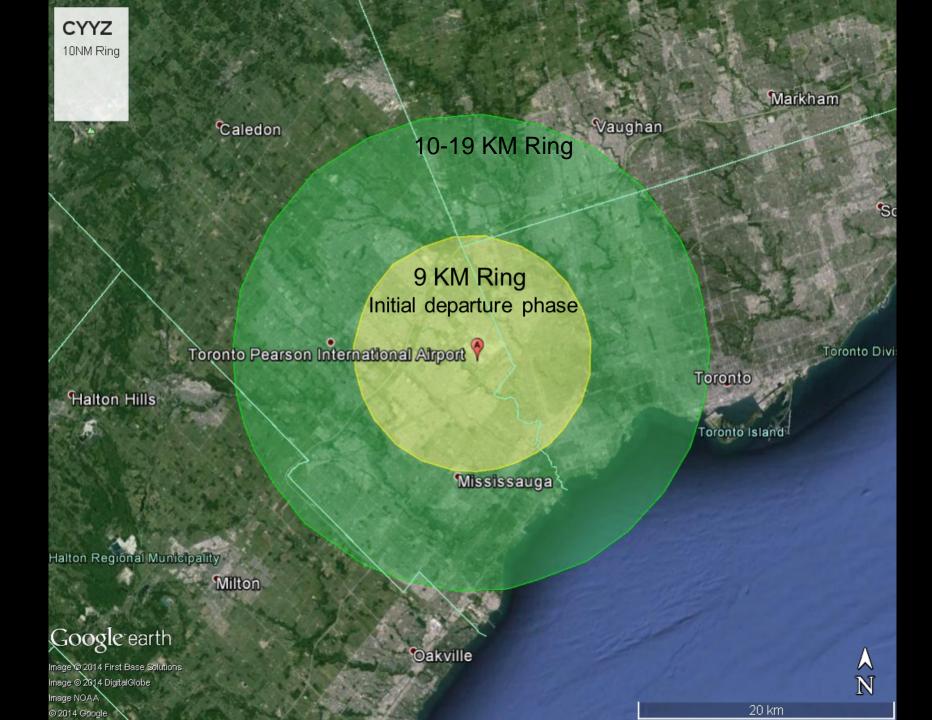


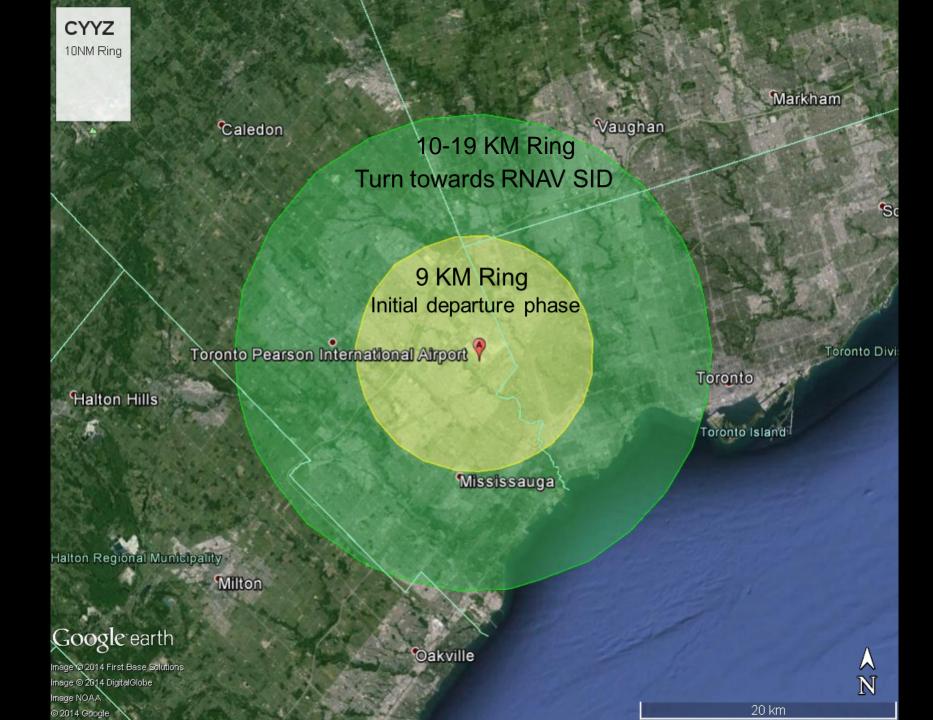
The phases of a CYYZ RNAV SID procedure

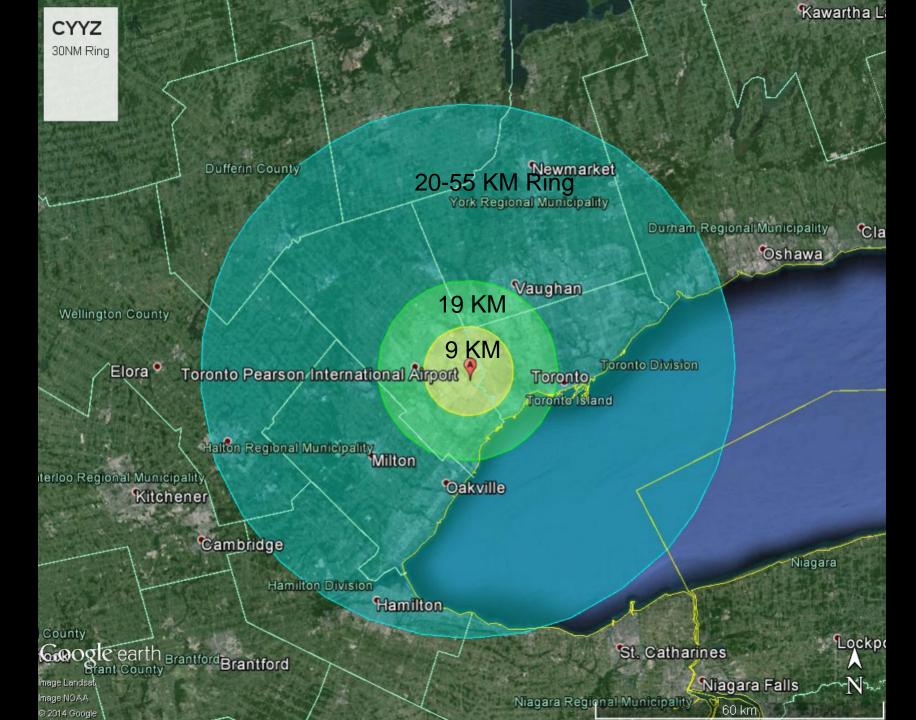
- 0-9 KM Ring
 - Initial Departure instructions as per noise abatement procedures
 - Leaving the runway
- 10-19 KM Ring
 - Turn towards RNAV SID (ATC initiated)
 - After noise abatement procedures
- 20-55 KM Ring
 - The aircraft will join the RNAV SID (FMS)
- Enroute phase of flight
 - Terminate RNAV SID and join flight planned route
 - Approximately 150KM from CYYZ

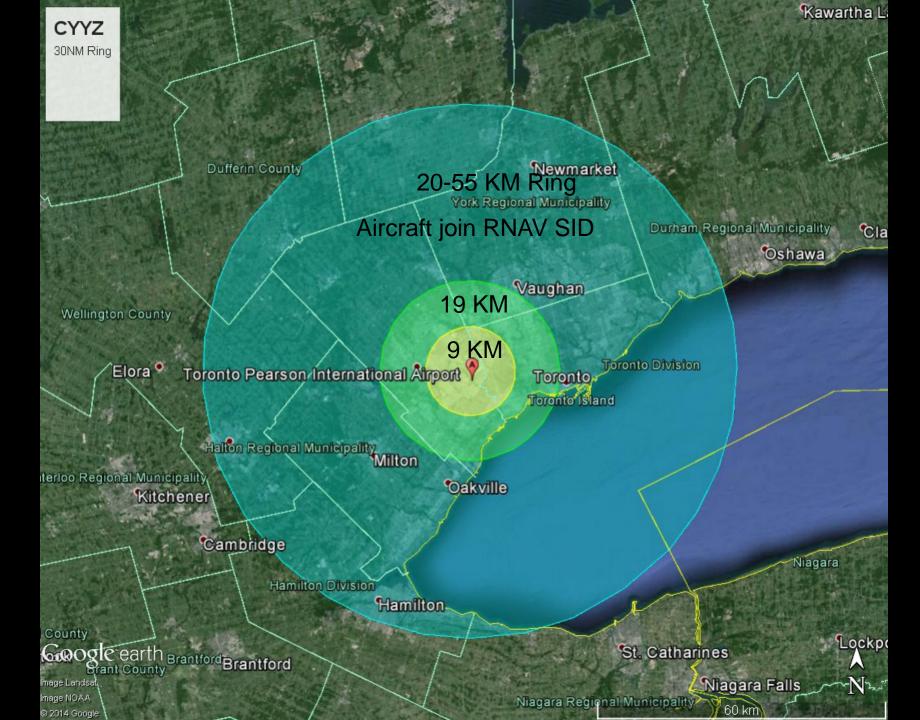


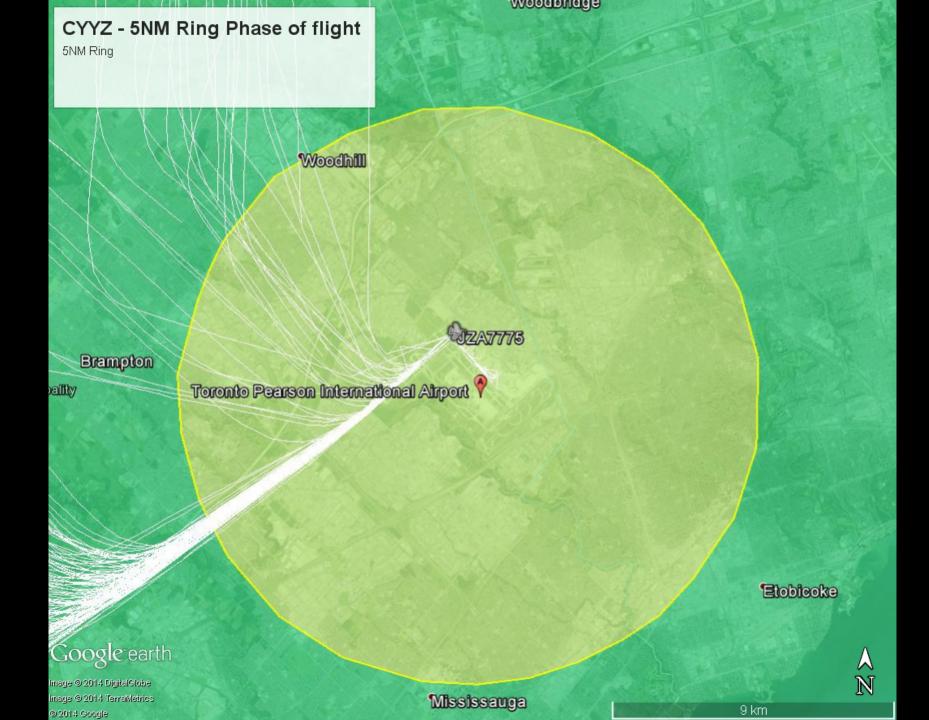


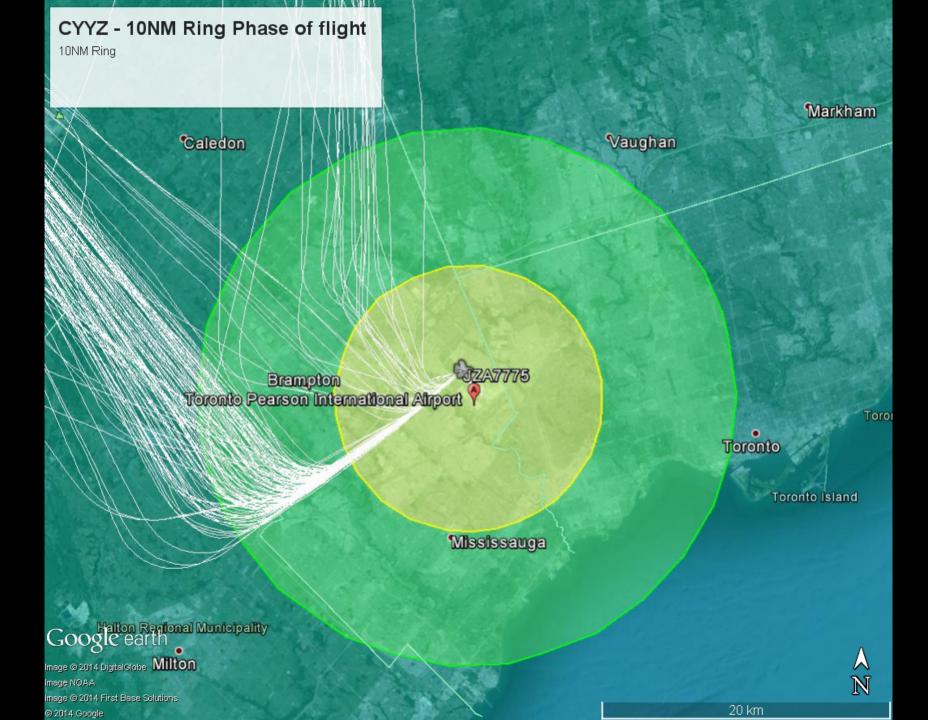


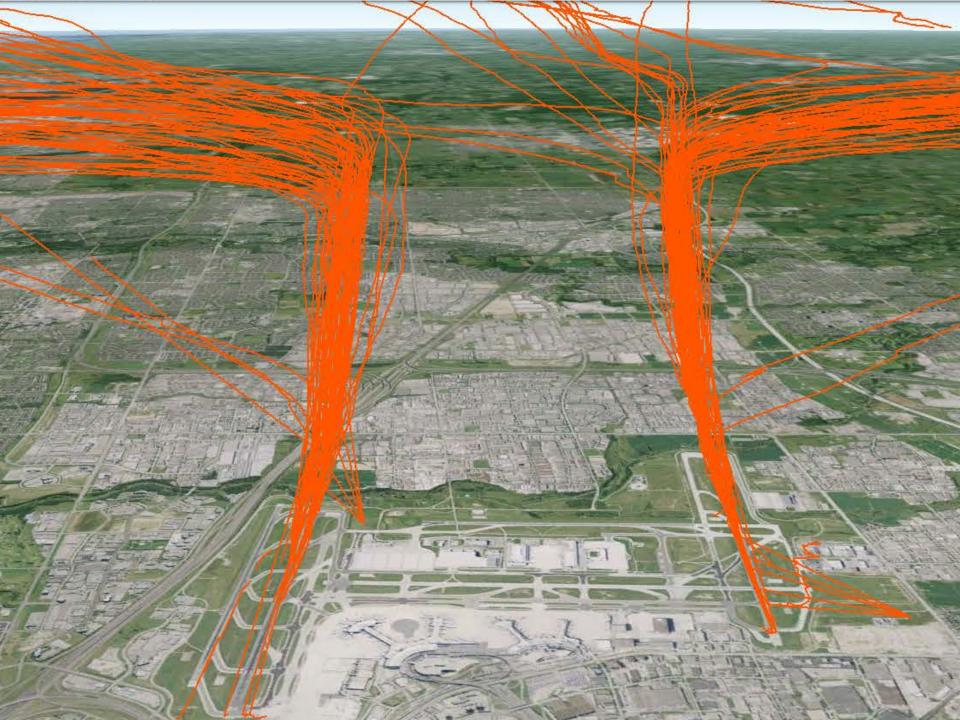




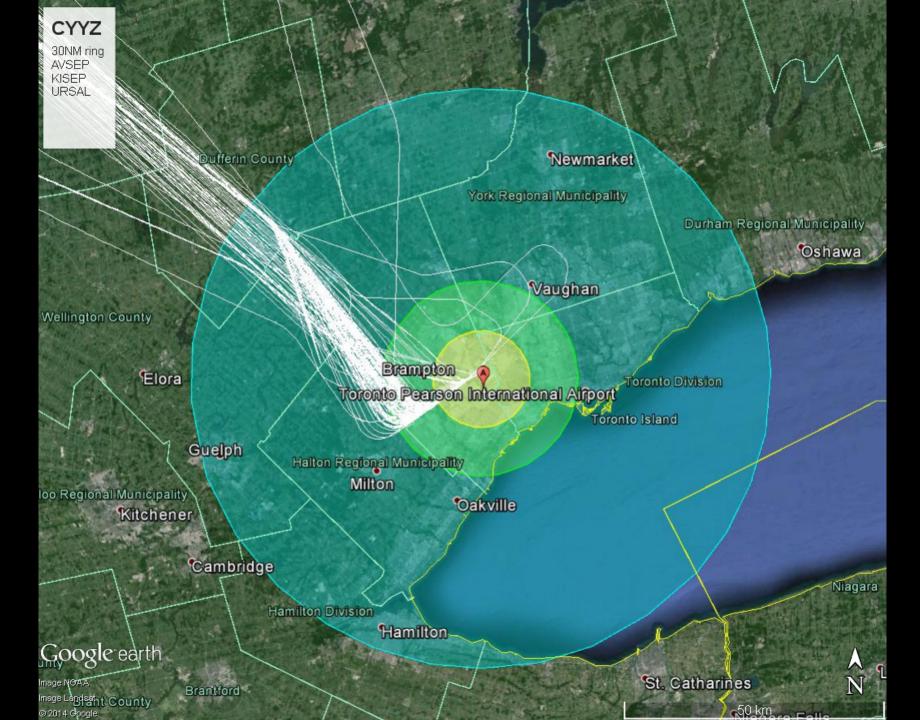


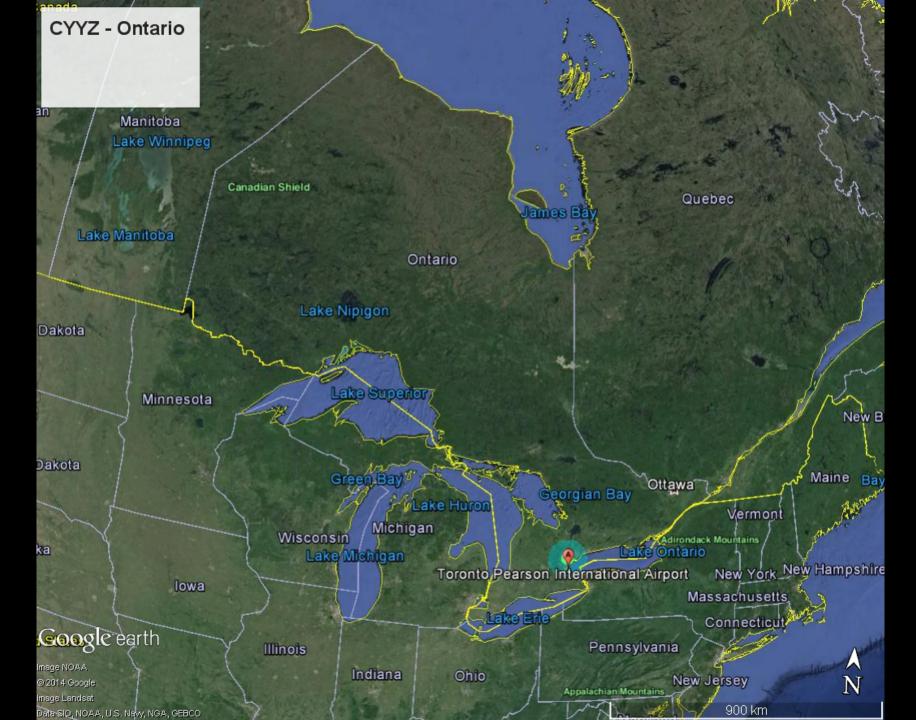
















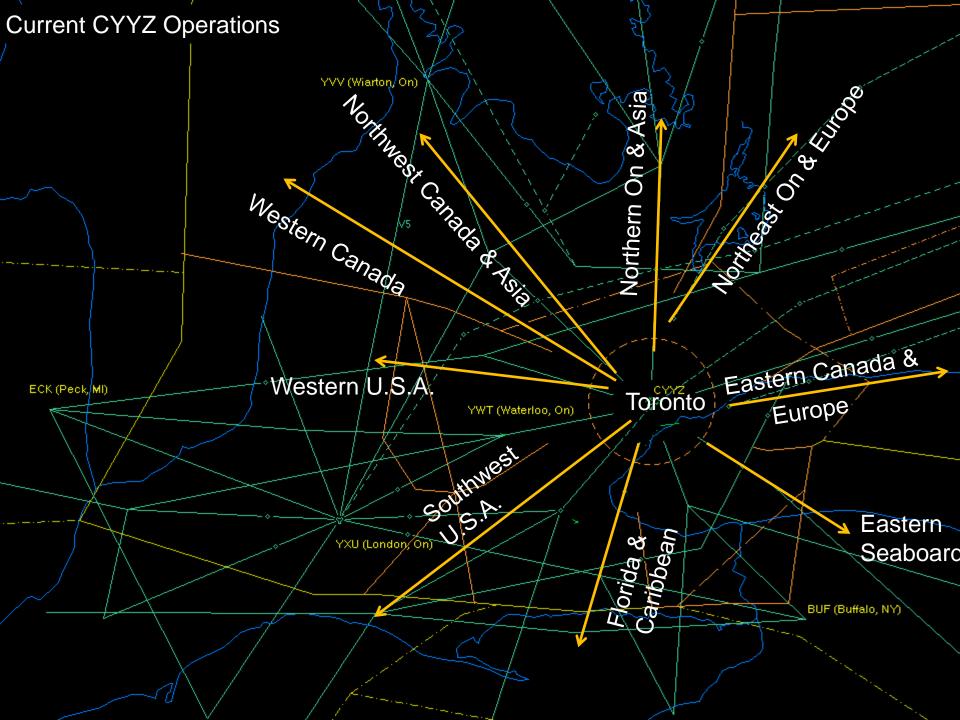


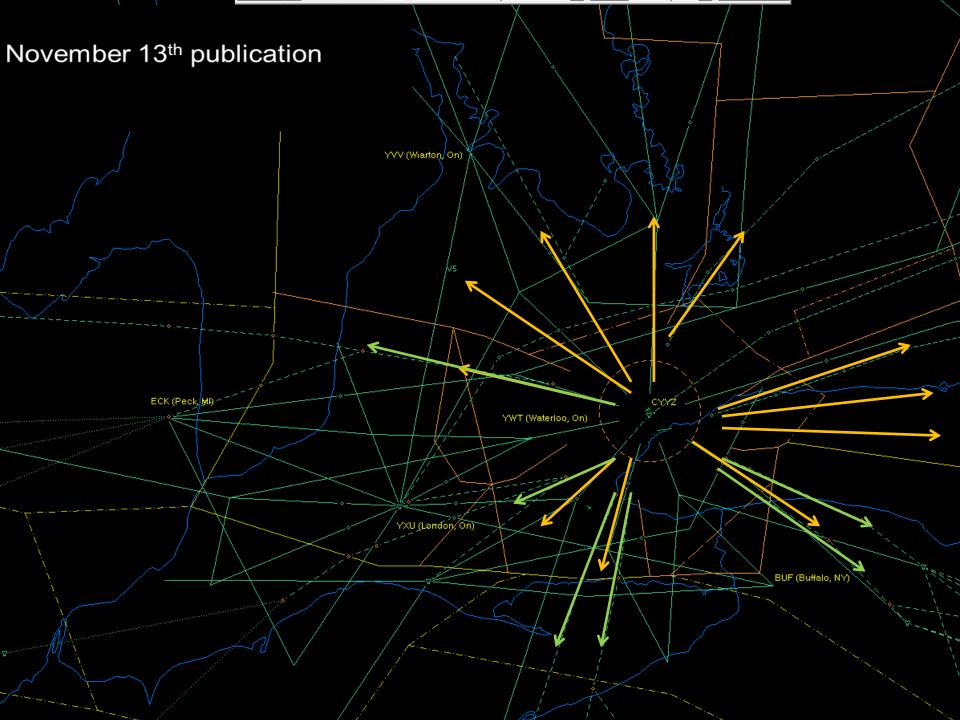


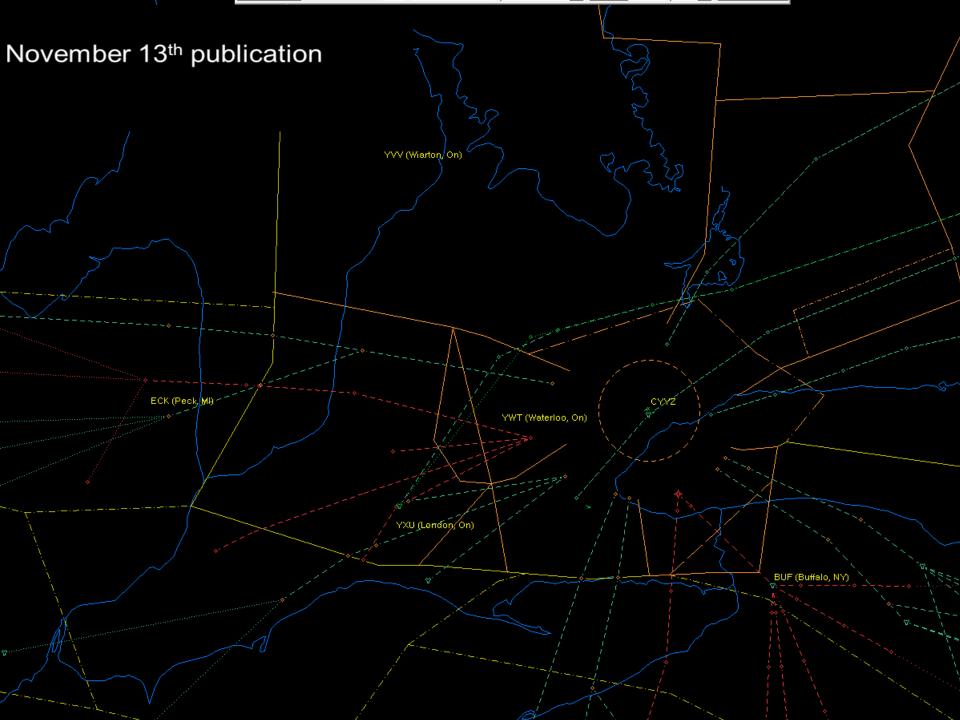


What will we be publishing on November 13th, 2014?

- RNAV SID procedures for the remaining departure routes
 - Western Canada (Vancouver and area)
 - Western U.S.A. (Los Angeles, San Diego, etc.)
 - Southwestern U.S.A. (Las Vegas, Texas, Memphis, etc.)
 - Southern destinations (Caribbean & South America)
 - Eastern Seaboard (New York, Boston, etc.)







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- Routes to reflect current practices using new technology
- Enhance our ability to keep aircraft climbing towards their destination
- Align the in-trail separation requirement entering FAA airspace with the established radar separation minimum

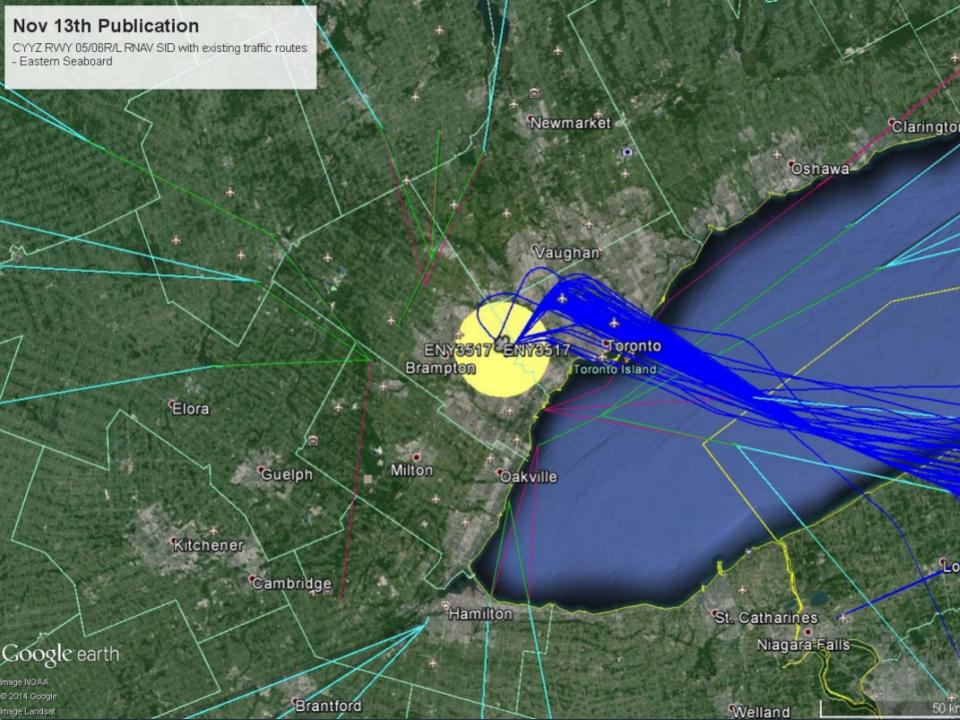


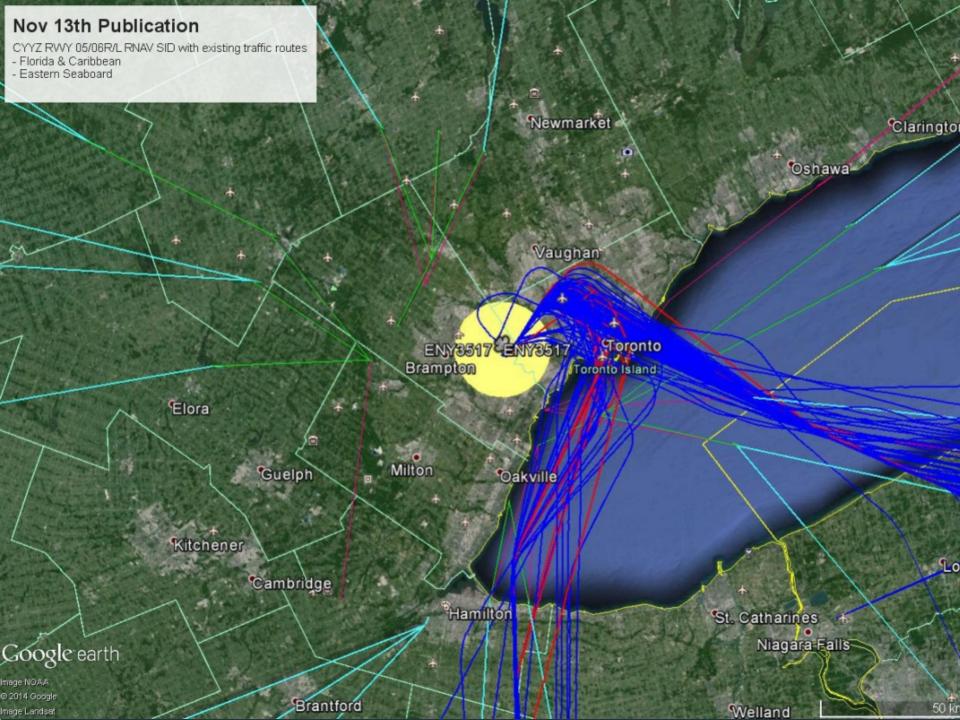


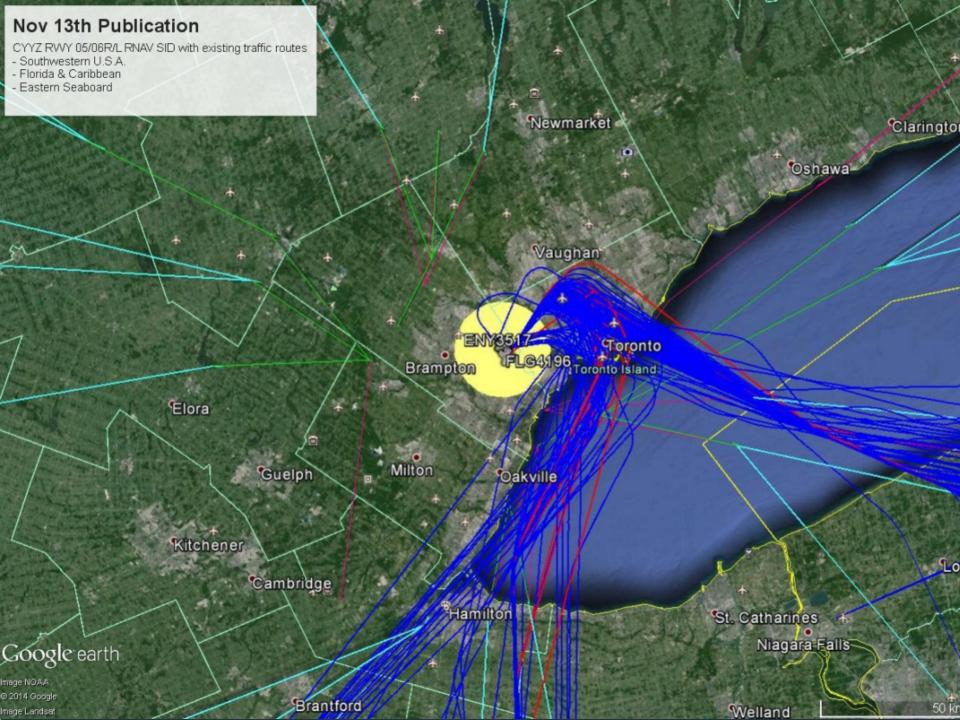


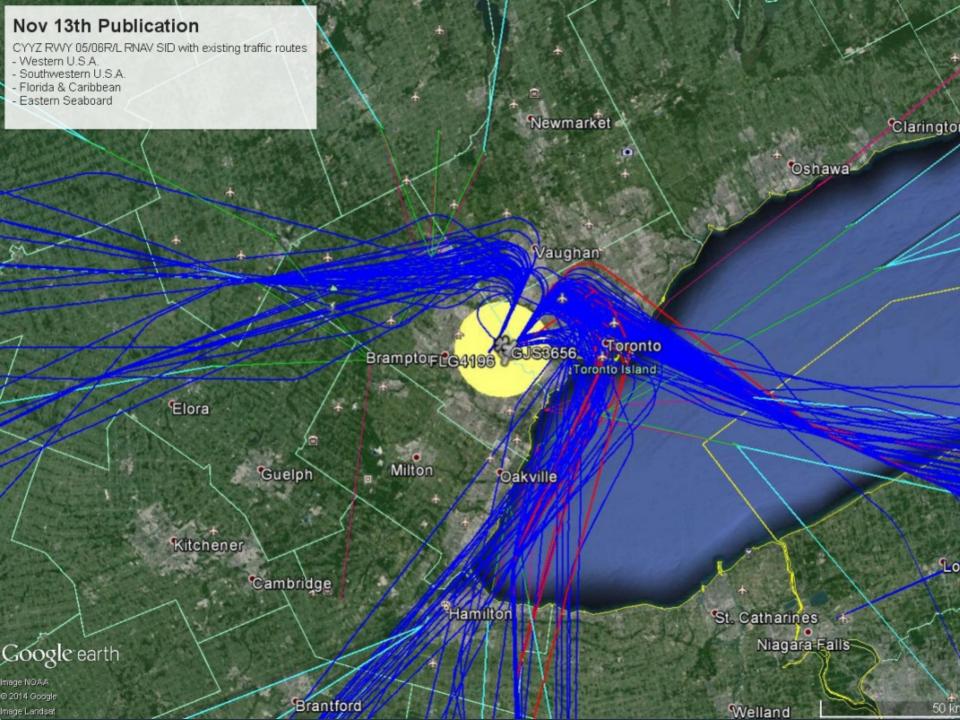
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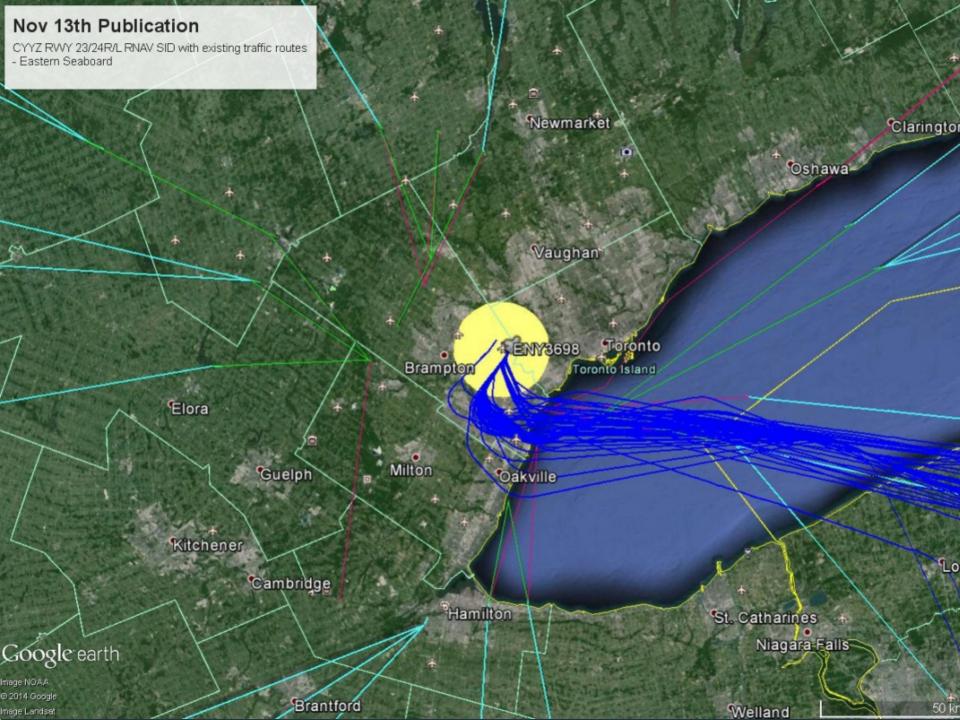
- What will this look like?
 - RWY 05/06R/L
 - RWY 23/24R/L Operation
 - RWY 15R/L
 - RWY 33R/L

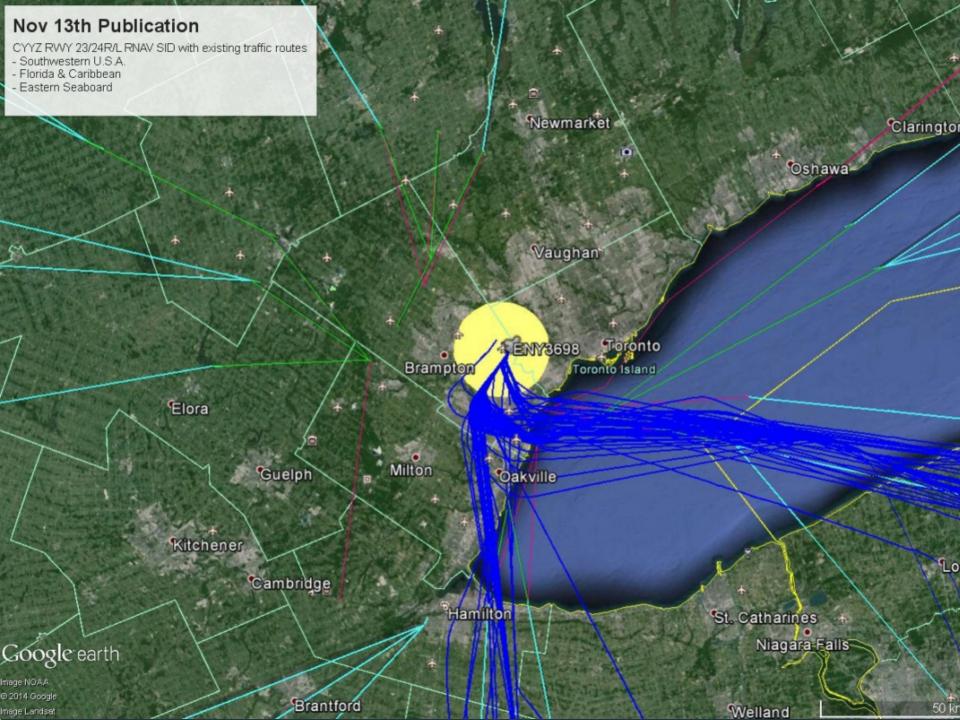


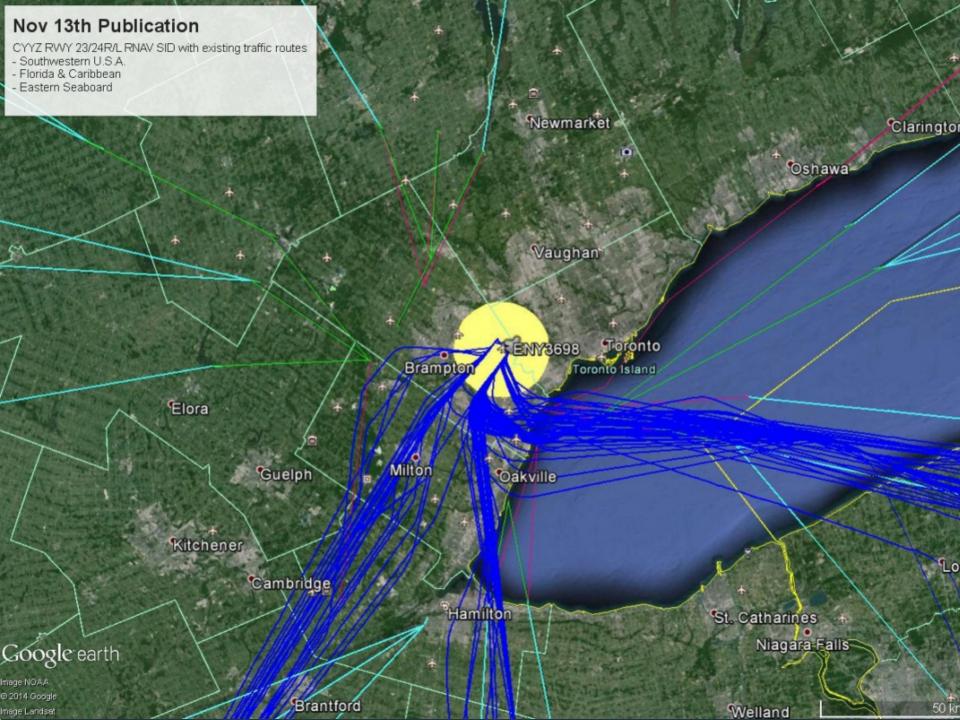


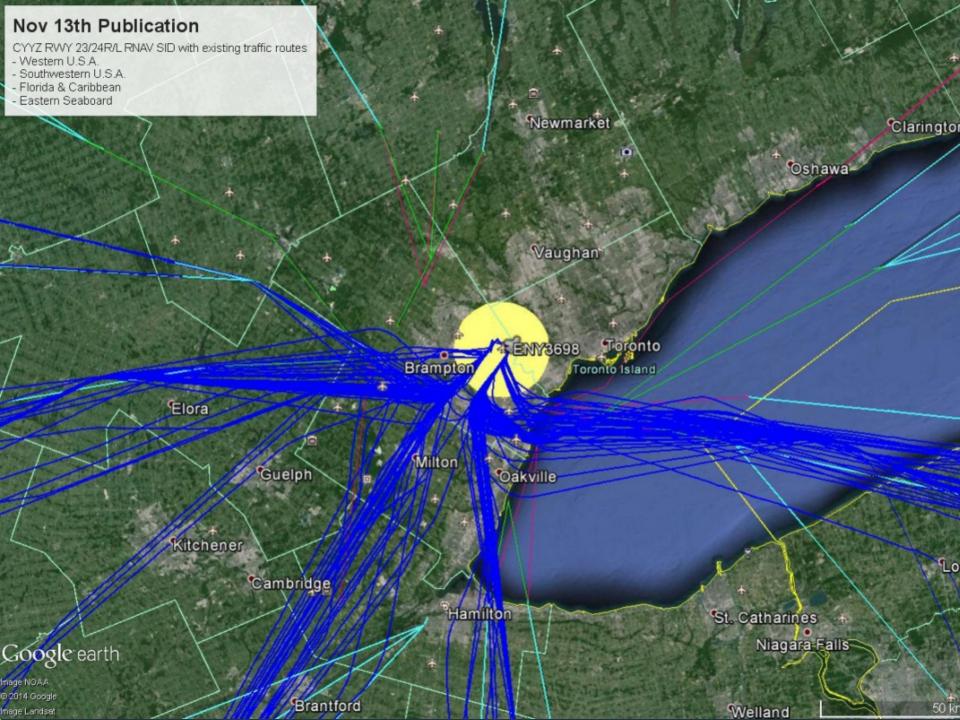


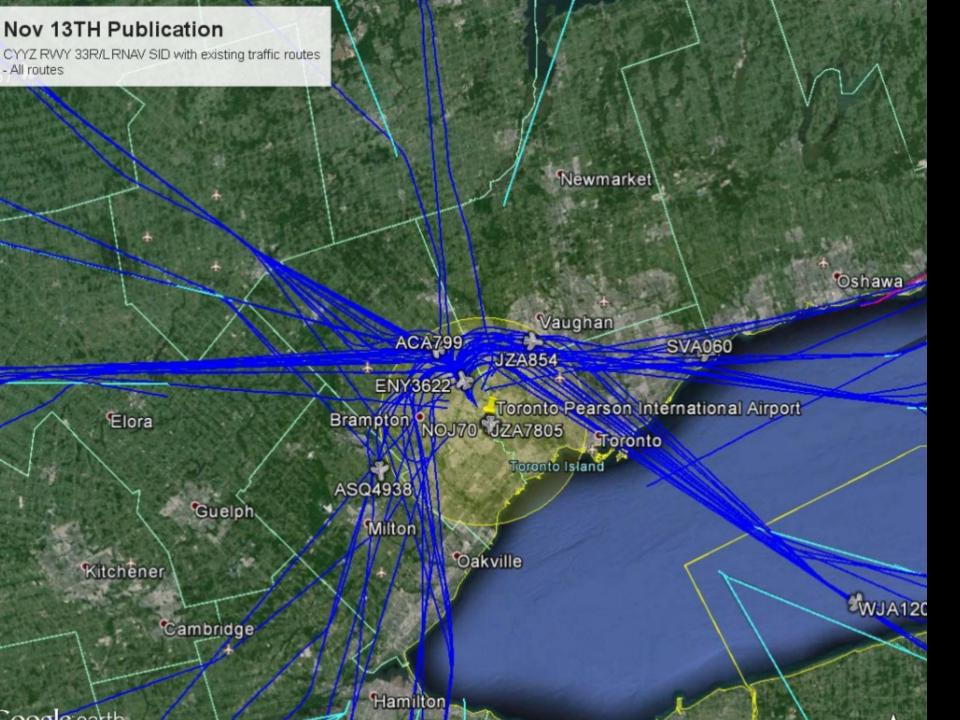


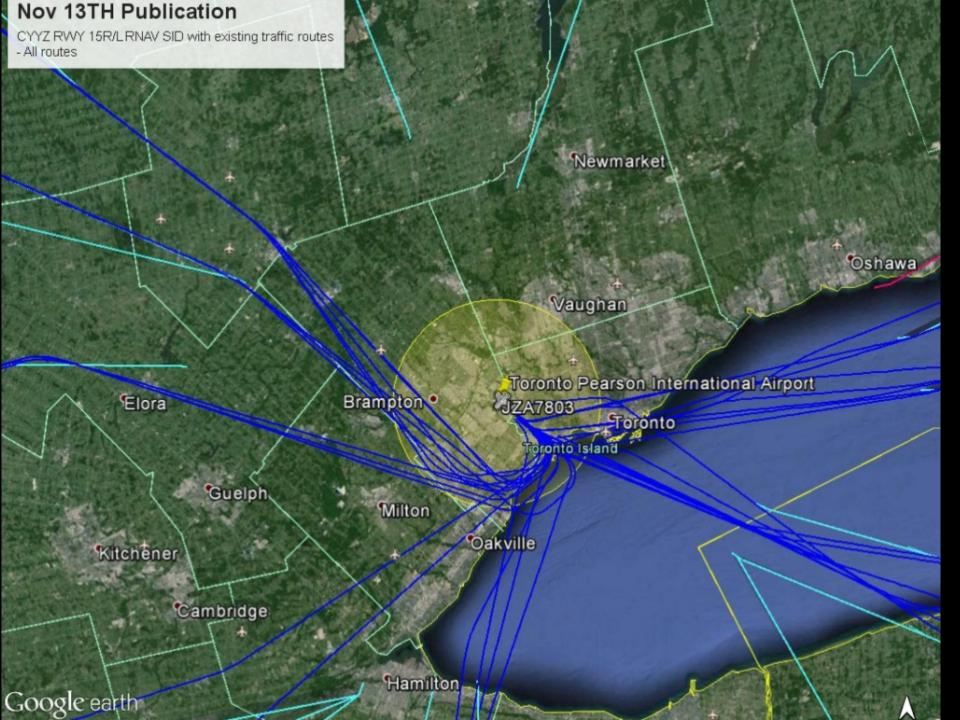


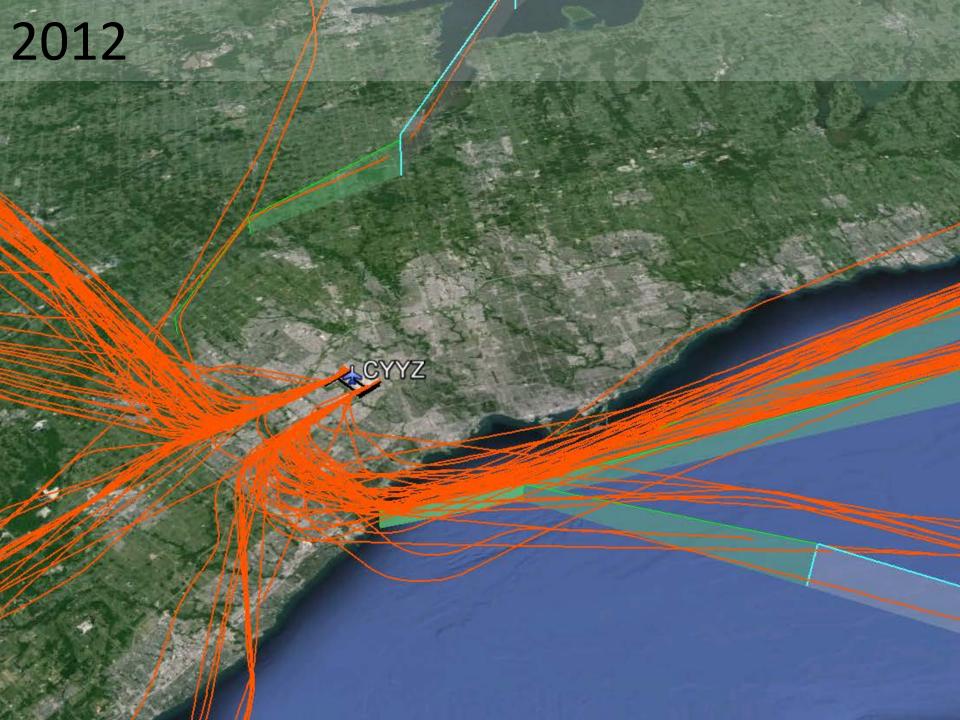












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