

GTE/21 IP/04

Horizontal Safety Monitoring Report

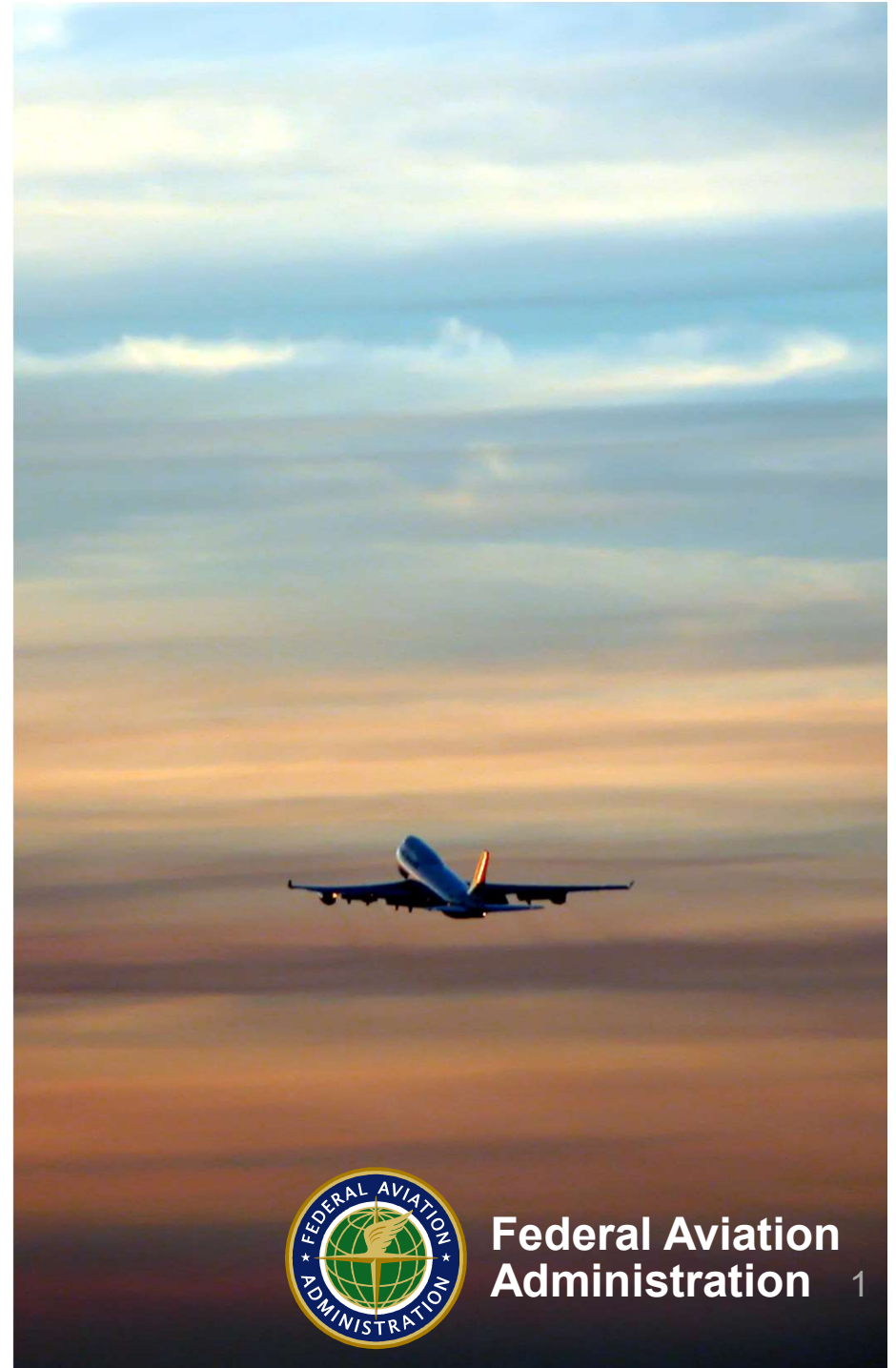
New York West FIR

CALENDAR YEAR 2020

Presented to: GTE/21

By: NAARMO

Date: 23 - 26 Aug 2021



**Federal Aviation
Administration** 1

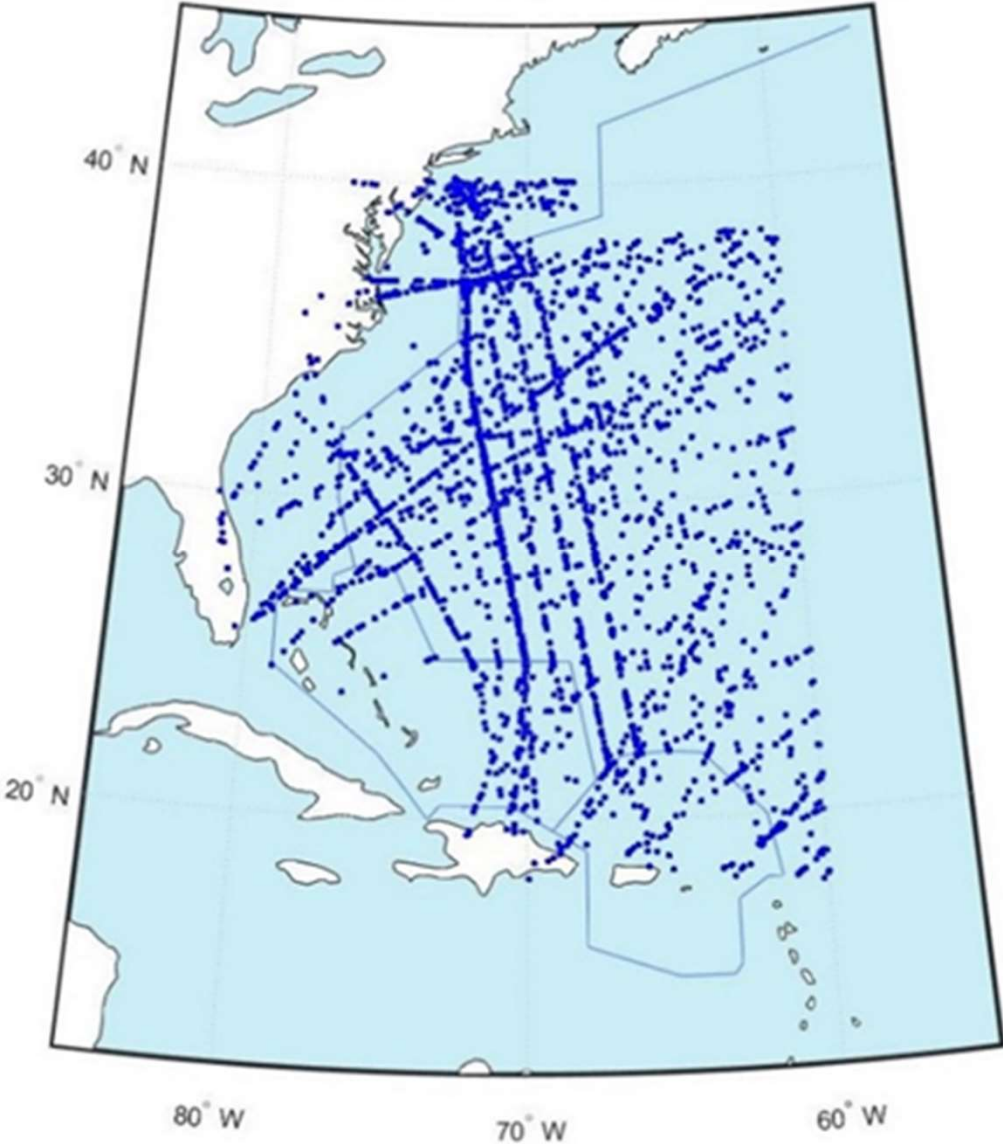
Background

- **North American Approvals Registry and Monitoring Organization (NAARMO)**
 - RMA Services provided by the U.S. Federal Aviation Administration
 - Located at the WJH Technical Center in Atlantic City, New Jersey

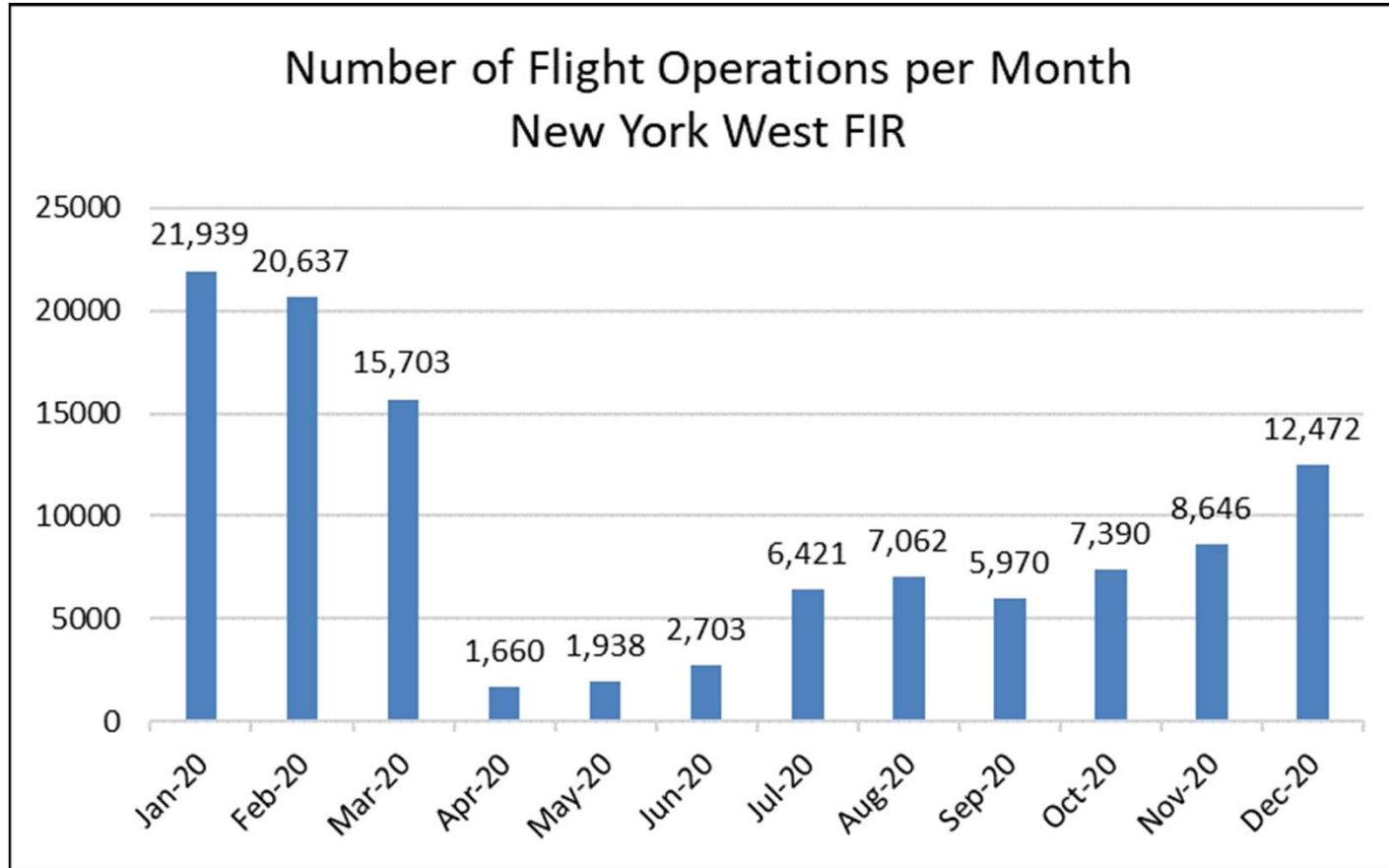


New York West FIR

New York Oceanic West Traffic - 10 Dec 2020



Number of Flight Operations per Month – Calendar Year 2020



Available Horizontal Separation Standards in New York West

Lateral / Longitudinal	Separation Standard	Minimum PBN	Minimum PBC	Minimum PBS
Lateral	50 NM	RNP 10	-	-
Lateral	30 NM	RNP 4	RCP 240	RSP 180
Longitudinal	10 minutes	-	-	-
Longitudinal	50 NM	RNP 10	RCP 240	RSP 180
Longitudinal	30 NM	RNP 4	RCP 240	RSP 180

Eligible Lateral Separation Standard for the AC Op	Lateral Infringement Distance (LID) (NM)
23NM (30NM)	15
50NM	36



Reported LLDs & LLEs by Month – 2020

Date	LLD/LLE Count	LLD Tracks Crossed	LLD/LLE Duration (min)
Jan	2	0	7
Feb	5	0	7
Mar	3	0	0
Apr	0	0	0
May	0	0	0
Jun	0	0	0
Jul	0	0	0
Aug	0	0	0
Sep	0	0	0
Oct	0	0	0
Nov	1	0	0
Dec	1	0	0
TOTAL	12	0	14

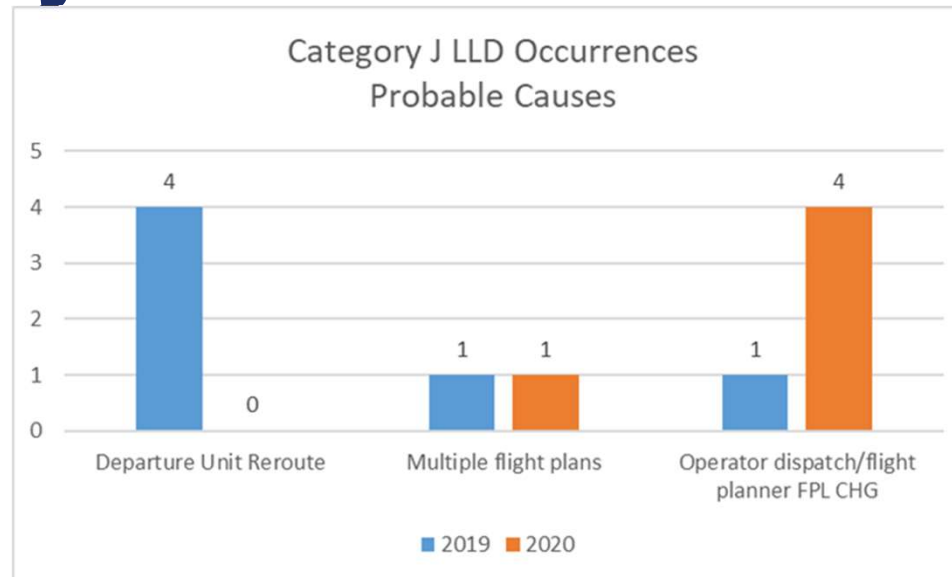


Reported LLDs & LLEs by Category - 2020

Category Code	Category Description	Number of Reports	LLD / LLE Duration (min)	Number Tracks Crossed
A	Flight crew deviate without ATC Clearance	1	4	0
B	Flight crew incorrect operation or interpretation of airborne equipment (e.g., flight plan followed rather than ATC clearance, original clearance followed instead of re-clearance etc.)	1	0	0
D	ATC system loop error	1	3	0
E	Coordination errors in the ATC-unit-to-ATC-unit transfer of control responsibility	3	7	0
J	Other	5	0	0
TOTAL		12	14	0



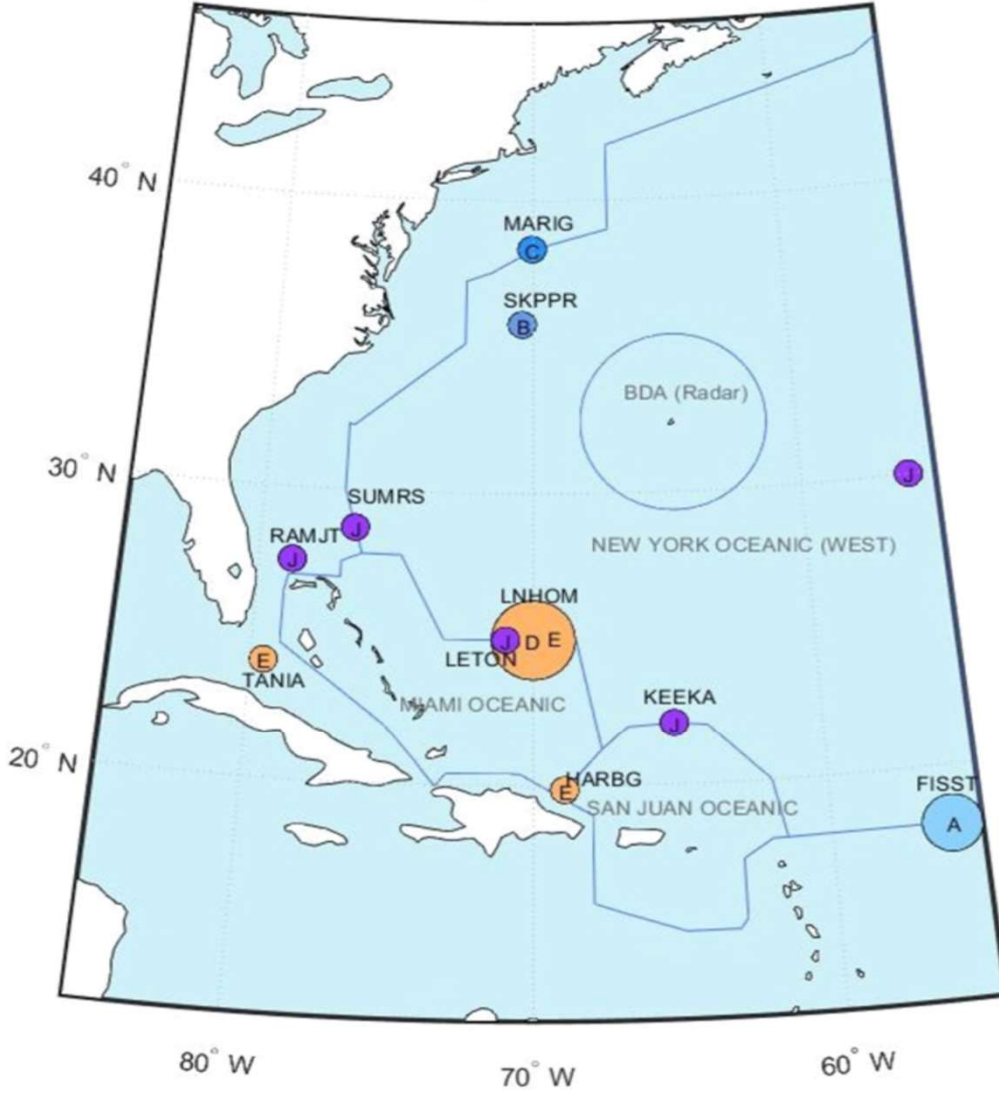
Category J – Probable Causes



- **Filed FPL Monitoring Ad hoc Group reports to the AIDC/FPL Task Force**
 - Investigates flight plan anomalies
- **US FAA maintains a website with FPL guidance**
 - https://www.faa.gov/about/office_org/headquarters_offices/ato/service_units/air_traffic_services/flight_plan_filing/
- **Monthly teleconference to discuss FPL issues and standards**



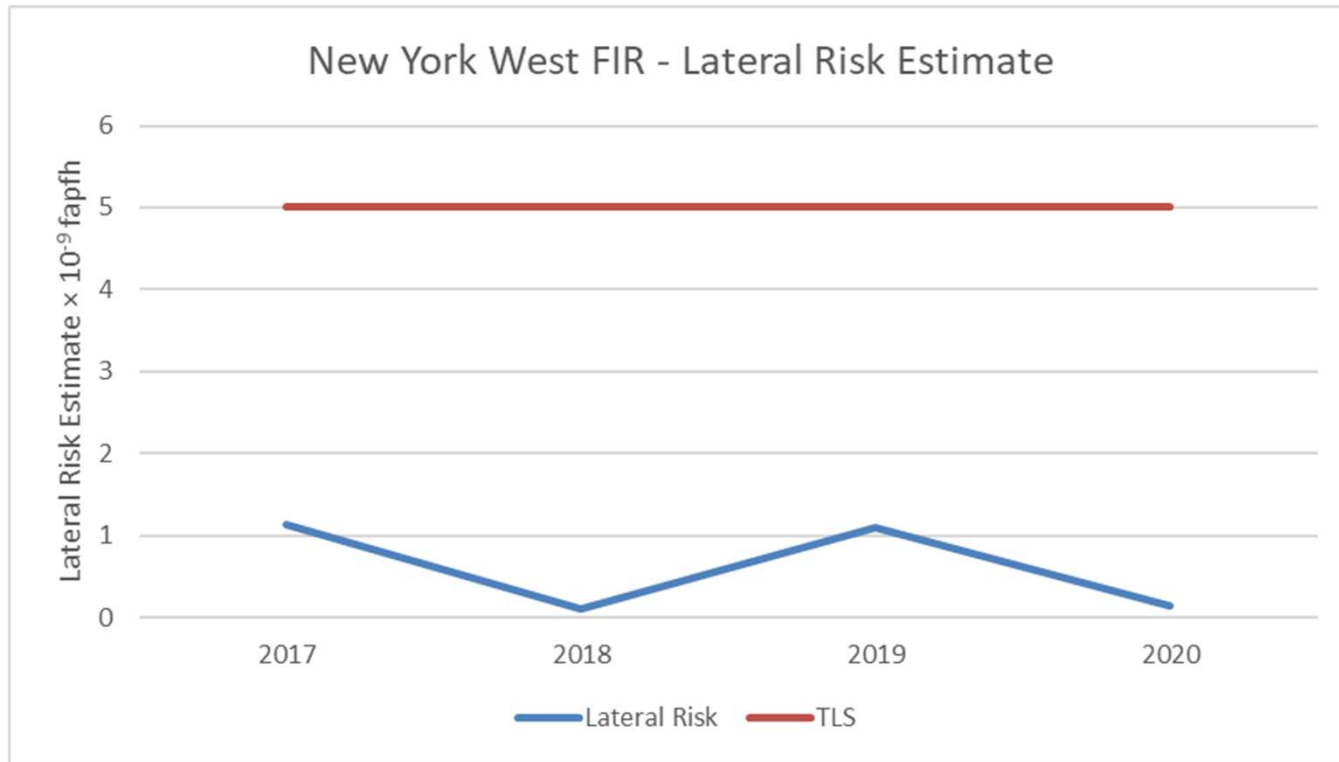
New York West Reported LLDs/LLEs - 2020



Code	LLD/LLE Description
A	Flight crew deviates without clearance
B	Flight crew incorrect operation of airborne equipment
C	Flight crew waypoint insertion error due to correct entry of incorrect position or incorrect entry of correct position
D	ATC system loop error
E	Coordination errors in ATC-to-ATC transfer due to human factors
F	Coordination errors in ATC-to-ATC transfer due to technical issues
G	Navigation errors, including equipment failure of which notification was not received by ATC or notified too late for action
H	Turbulence or other weather related cause
I	An aircraft without PBN/PBC/PBS approval
J	Other



Lateral Risk Estimates



Summary

- **The lateral risk estimate meets the overall safety goal**
- **Longitudinal risk estimate methods are being developed for the distance based separation standards**

