FPL Monitoring Group 2019 Data Collection

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FPL Error Data Collection

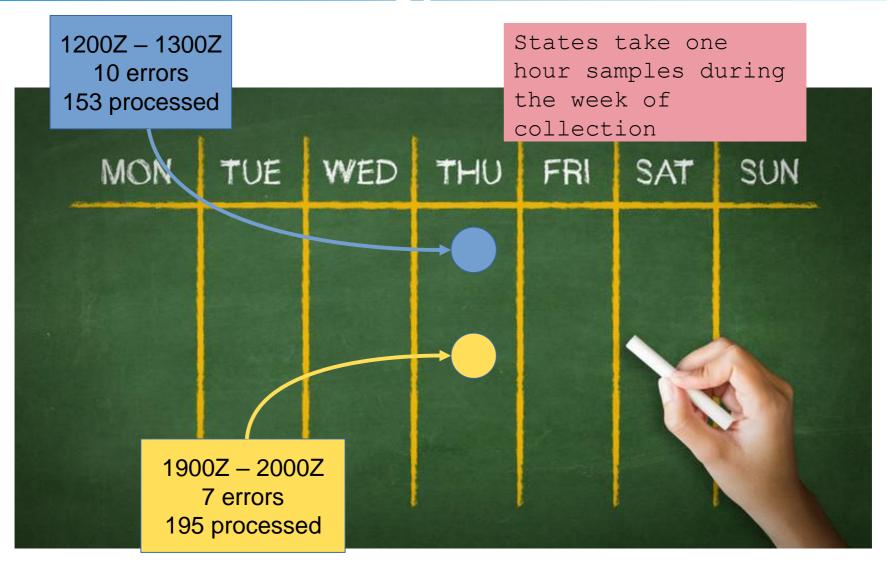
- A recurring activity
- Used to measure effectiveness of error mitigation measures



2019 Data Collection

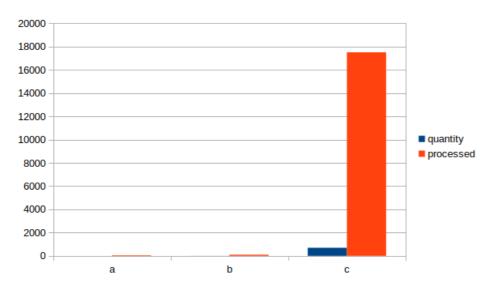
- Data has been collected from:
 - Barbados
 - Grenada
 - Guadaloupe
 - Haiti
 - Martinique
 - Mexico
 - St. Kitts
 - Trinidad and Tobago (PIARCO)
 - United States

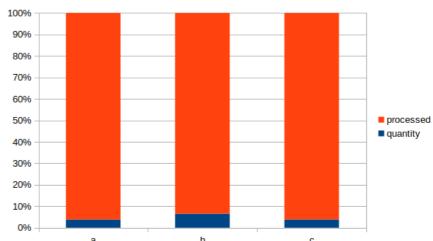
Methodology – Collection

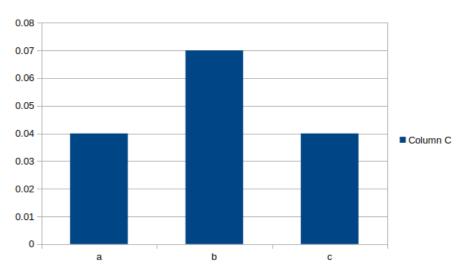


Methodology – Data Analysis

Absolute values skew results. Percentages or ratios are better.







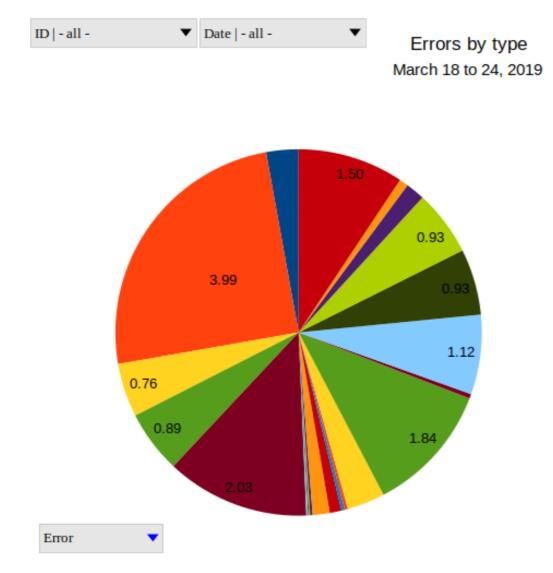
Methodology – Data Analysis

Suppose that the flight plans reported by the States totalled 100

State	Total processed	Total errors
State A	350	70
State B	1200	480

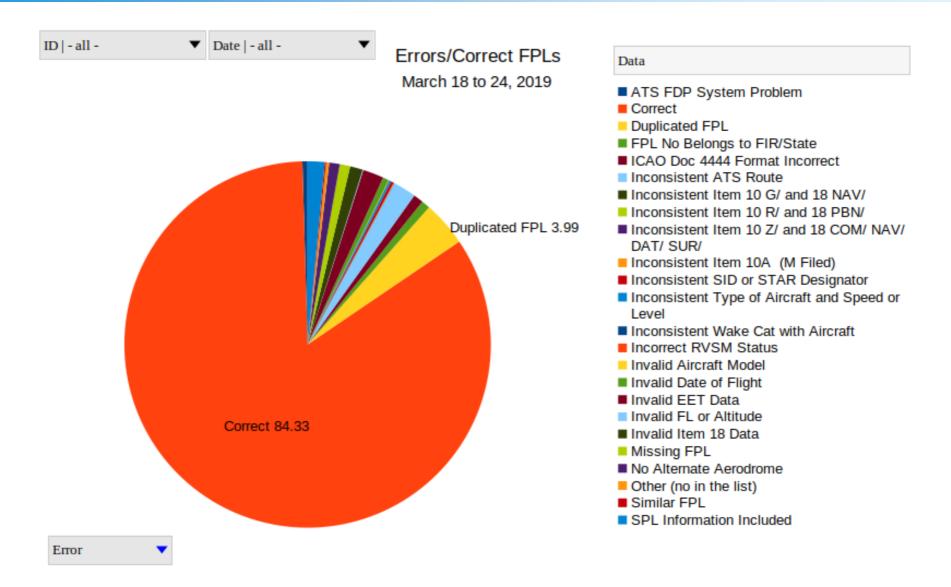


State	Ratio	Per 100 FPLs
State A	0.2	10
State B	0.4	20



Data

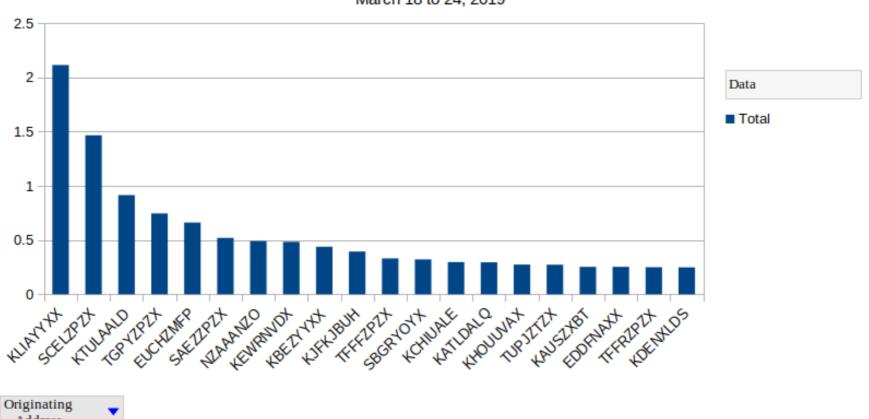
- ATS FDP System Problem
- Duplicated FPL
- FPL No Belongs to FIR/State
- ICAO Doc 4444 Format Incorrect
- Inconsistent ATS Route
- Inconsistent Item 10 G/ and 18 NAV/
- Inconsistent Item 10 R/ and 18 PBN/
- Inconsistent Item 10 Z/ and 18 COM/ NAV/ DAT/ SUR/
- Inconsistent Item 10A (M Filed)
- Inconsistent SID or STAR Designator
- Inconsistent Type of Aircraft and Speed or Level
- Inconsistent Wake Cat with Aircraft
- Incorrect RVSM Status
- Invalid Aircraft Model
- Invalid Date of Flight
- Invalid EET Data
- Invalid FL or Altitude
- Invalid Item 18 Data
- Missing FPL
- No Alternate Aerodrome
- Other (no in the list)
- Similar FPL
- SPL Information Included





Errors by Originating Address

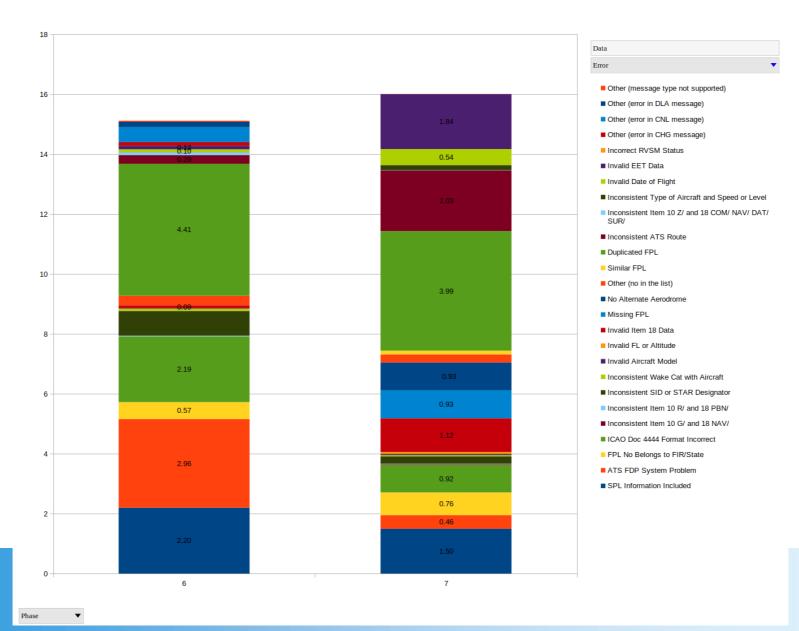
March 18 to 24, 2019





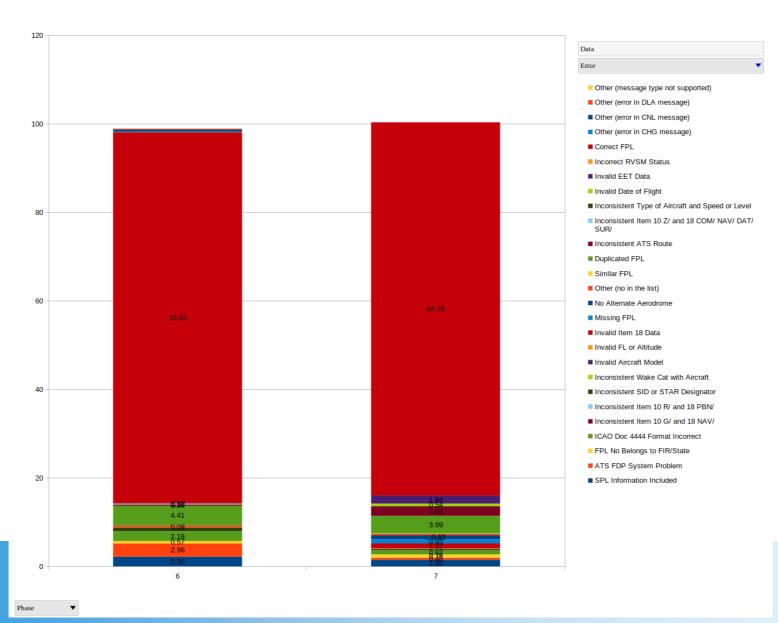


Errors Comparison
Phases 6 (2018) and 7 (2019)





Errors/Correct FPLs Comparison Phases 6 (2018) and 7 (2019)



Summary

- Data collection is necessary to discover where the problems are.
- Errors are still high.
- Duplicates have slightly gone down, but remain as the main type of error.
- Other errors have a significant share of total.
- Mitigation measures need to produce more impact.

Questions



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