CIIFRA-T/05— IP/03 **Rev.** 08/08/22

5th Meeting of the CIIFRA Team (CIIFRA-T/05)

Miami, United States, and on-line 2 to 4 August 2022

Agenda Item 7: Optimization CIIFRA

AIRSPACE OPTIMIZATION AND CIIFRA

(Presented by the Secretariat)

EXECUTIVE SUMMARY

Airspace Optimization Team and CIIFRA have been working over a year on the optimization of the airspace in the region. This Information Paper will discuss the progress, where we are now and the future of the optimization.

Strategic • Safety

• Air Navigation Capacity and Efficiency

1. Introduction

1.1 As seen earlier, the optimization of the region's airspace has been continuing for some time. This briefing will provide an update.

2. Discussion

2.1 The Secretariat will brief the Task Force on the progress of the optimization. The two-pronged attack will be discussed.

Airspace Optimization CAR Region

North American, Central American and Caribbean Working Group (NACC/WG)

Air Space Optimization Task Force

Two Pronged Attack

- · End to End route Optimization
- · User Preferred Route
- · Free Route Airspace



2.3 Results of both tracks will be discussed.

Results Track 1

Estimated 1-year savings of the 6 completed PASA Optimized Routes

KATL⇔SPJC KATL⇔SBGR TTPP⇔KMIA KIAH⇔MMPR SAEZ ⇔KATL KATL ⇔SAEZ

Savings	
Flight min:	13,126
Fuel (lb):	2,583,088
CO2 (kg):	3,702,477
Cost (\$):	2,107,410

- CIIFRA initiative created for Regional FRA
- Airlines select a city pair route for UPR trials and ANSPs do their best to accommodate
- Small steps

✓ Step 0: one northbound and one southbound legs

✓ Step 1: one round trip

✓ Step 2: three consecutive round trips

✓ Step 3: seven consecutive round trips

☐ Step 4: 30 consecutive round trips (initiated on July 15, 2022)

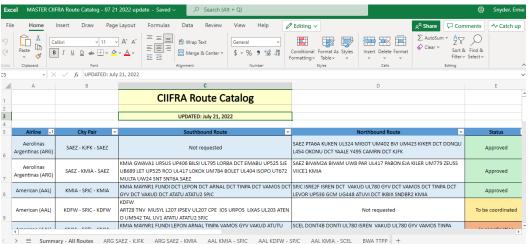
☐ Step 5: 90 consecutive round trips
☐ Goal: continued use of CIIFRA UPR

KATL-SPJC-KATL DAL151/DAL150

	Baseline vs UPR	
Savings	12 Day	1 Year
Flight min:	116	3,528
Fuel (lb):	12,479	379,570
CO2 (kg):	17,887	544,057
Cost (\$):	15,325	466,138

Estimation of 1-year savings based on 12 days of data obtained from Steps 0, 1, 2, and 3

- 2.4 Also discussed will be the metrics of each path, and the "rule of 20". This rule stipulates that the team will entertain 20 "path 1" routes at a time. This will require assistance from the States in getting Aeronautical information Publications (AIPs) updated as route trials are completed. We are approaching that number quickly.
- 2.5 An excel spreadsheet has been developed that shows all the routes and their coordination status.



2.5 CIIFRA is also working on an addition to the ICAO Airspace Optimization Task Force website that will provide information as well as allow new route requests for optimization.



2.6 A chart was show explain the relationships between the Task Force and other groups.

