



International Civil Aviation Organization
Twenty First Meeting on the improvement of Air Traffic Services over the
South Atlantic (SAT/21)

Lisbon, Portugal 6-10 June 2016

Agenda Item 3: Communications, navigation and surveillance (CNS)

3.1 Follow up of SAT/19 Conclusions pertaining to the CNS field

Mitigation of missing Flight Plans

(Presented by ASECNA)

This working paper presents the result of compilation on missing flight plan received from some center of SAT area in according to the conclusion 20/12 of SAT/20.

1. Background

- 1.1. In compliance of conclusion 19/14, the SAT Group has appointed ASECNA as Head of Group 3 team of the SAT program CNS / WG work on the results of the mitigation actions taken to minimize loss of flight plans.
- 1.2. The conclusion 20/12 of meeting SAT/20 indicates the necessity of all centers in SAT members to send to ASECNA team leader of task 3 their data on missing Flight Plans for compilation and in according to template of missing flight plan adopted on SAT/19 by the conclusion 19/14.
- 1.3. Till May 2016, we have received only five reports on missing flight plan, from Lisbon center (LPPO), Madrid center (LPPT), Dakar center (GOOY), Abidjan center (DIAP) and Nouakchott center (GQNN).

2. Discussion

- 2.1. The table below recapitulates the distribution of flight plan message data received during the first quarter 2016 from Lisbon (LPPO), Madrid (LPPT), Dakar (GOOY), Abidjan (DIAP) and Nouakchott (GQNN) centers. For each center, it is defined the total number of FPL treated that are divided into FPL received, received with delay, received with the wrong address and the number of FPL not received. We note a good global rate of availability of FPL at each center with a global average of 99%.

General	Total traffic	Received		Delay	With wrong address	Not received
		Number	rate			
LPPO	22 382	22 129	98,87%	5	49	199
LPPT	119 690	116 539	97,37%	44	3 098	9
GOOY	19 500	19 499	99,99%			1
DIAP	10 707	10 637	99,35%			70
GQNN	10 156	10 132	99,76%			24
Total/average	182 435	168 804	99,07%	49	3 147	303

- 2.2. Luanda informed that they have not statistics on actual loss or lack of flights plans. However, they reported that ATC LUANDA notes several times that aircraft from Kinshasa and Ethiopia, entering their FIR without FPL.
- 2.3. Amongst 303 missing FPL: 65.68% have been identified by Lisbon and 2.97% by Madrid. For ASECNA center, this is in Abidjan that has many of missing FPL with 23.10%. The remains are for Nouakchott 7.92% and Dakar 0.33%.
- 2.4. By original area, the most number of missing FPL is from K area with thirty percent nineteen (30,19%), S area with twenty five percent ninety fourth (25,94%), L and M areas with eleven percent (11%) for each of them.
- 2.5. By original center, we note the high number of missing FPL from Washington Dulles International (KIAD) with 21 missing FPL, from Accra (DGAA) 12 missing FPL and from Cali International at Columbia (SKCL) 14 missing FPL.
- 2.6. By airlines, the most significant are:
- 33 SAA flights : 21 from Washington Dulles International (KIAD) and 12 from Accra (DGAA);
 - 21 AVA flights : 13 from Cali International (SKCL), 6 from Rionegro international in Colombia (SKRG) and 2 from Bogota International (SKBO);
 - The remains are in annex.
- 2.7. 3147 FPL received by Madrid (LPPT) and by Lisbon (LPPO) with wrong address. However these wrong addresses are not listed by Madrid nor Lisbon. For Madrid, there are more than 400 FPL received with wrong address from (SAEZ) and 300 from Bogota International (SKBO).
- 2.8. Also, 49 FPL received by Madrid and Lisbon are received with a delay more than five (5) minutes. Among these messages, there was five FPL received by LPPO including two (2) from LPLA and one of each from Rio (SBGL), Shaw (KSSC) and Madrid (LEMD). For LPPT there was five from Sao Paulo (SBGR) and four of each from Frankfurt (EDDF), (KJFK) and Miami (KMIA).
- 2.9. The causes could be identified are:
- The misunderstanding of the organization of the ASECNA air space in particularity the existence of UTA inside of Dakar FIR by the users and the operators flight plans;
 - The omission RSFTA addresses of the certain organism of control in charge of the flights;
 - The failure to respect the procedures of exploitation concerning the routing and ignorance of recipient addresses;
 - Unstable operation of certain circuits;
 - Human factor like Lack of vigilance of certain FPL operator.
- 2.10. For improving the availability of FPL data in each center, the solutions that we can propose are:
- Utilization of collective address GOZZZQZX for over flight of Dakar FIR included Dakar ACC, Nouakchott ACC, Bamako ACC and Abidjan ACC AFTN Addresses, according to:
 - AIC N°03/A/13GO;
 - Letter transmitted to IATA and ICAO.
 - Sensitization of information local staff on routing of FPL procedure;
 - diffusion of addresses specific recipient at FPL by the centers concerned with wrong address and check regularly the routing table of each center;
 - collaboration between centers to determine the causes of the delay of certain messages and take the appropriate measures necessary
 - Strengthening cooperation on trade data on missing flight plans between different centers concerned in accordance with the 20/12 conclusion of SAT/20 ;
 - Notify the original center by AFTN message on missing FPL;
 - Notify the local representing of airline in conformity of conclusion 20/13.

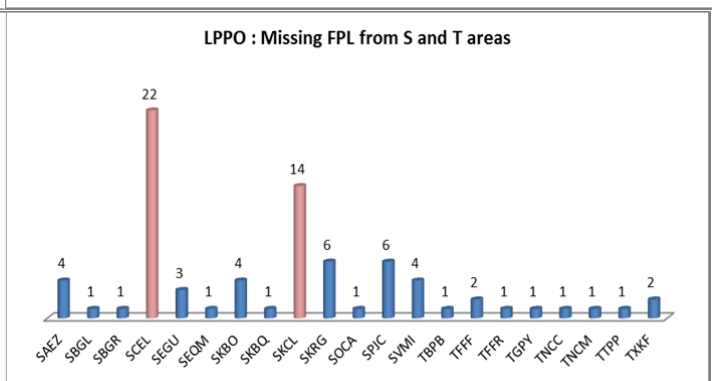
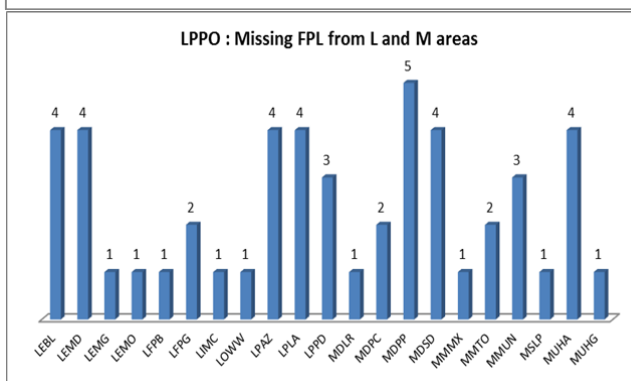
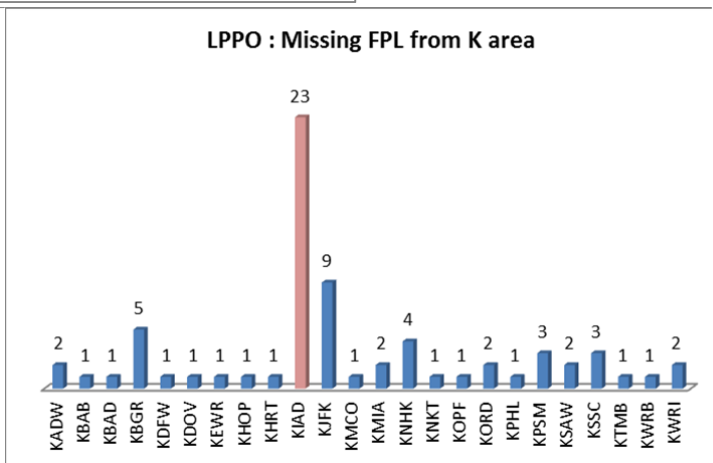
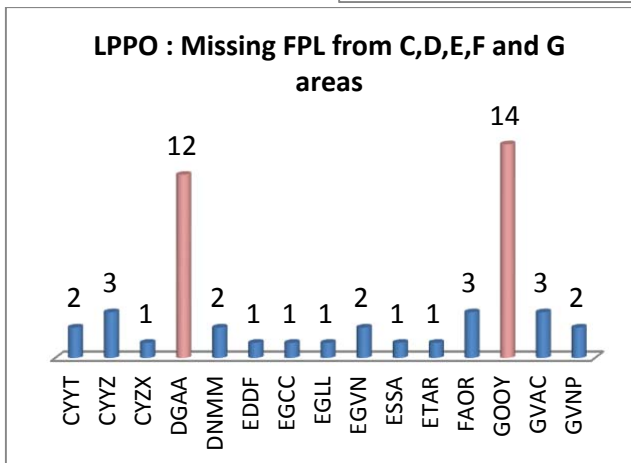
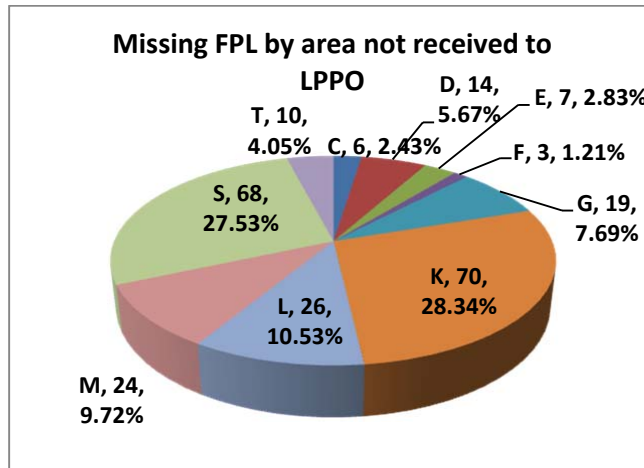
3. Action by meeting

The meeting is invited to:

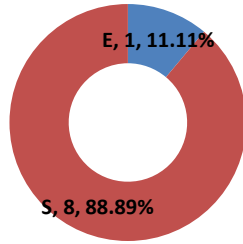
- ✚ Take note the information and efforts to reduce the flight plan losses contained in this working paper;
- ✚ Encourage different centers in sensitization of agents on compliance procedures;
- ✚ Encourage the establishment of local investigation group of FPL missing;
- ✚ Encourage regular exchange of missing flight plan data between centers for investigation;
- ✚ Encourage collaboration between centers for improving the availability of FPL with a respectable time.

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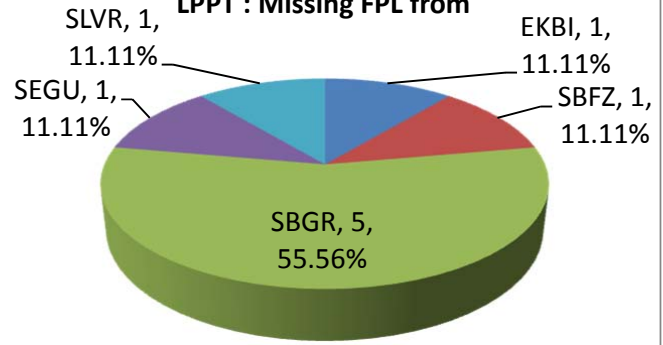
ANNEX



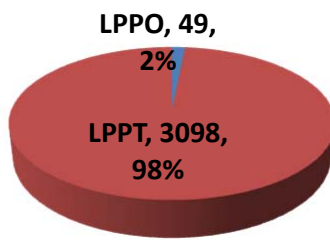
Missing FPL by area, not received to LPPT



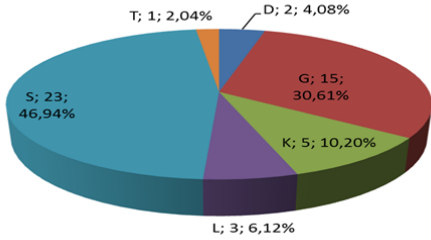
LPPT : Missing FPL from



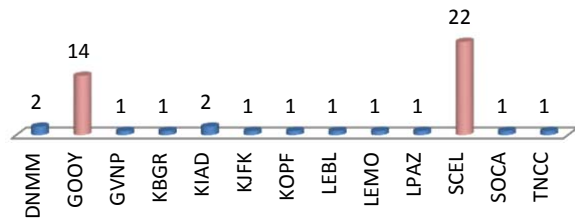
Total number of FPL with wrong address received by



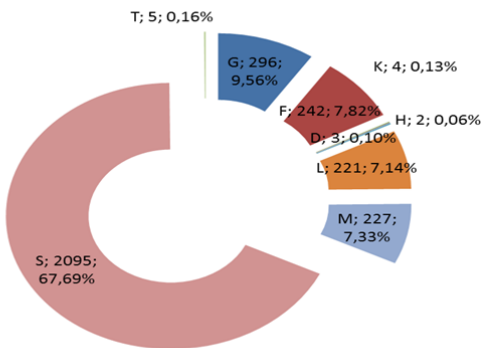
FPL received to LPPO by area with wrong address



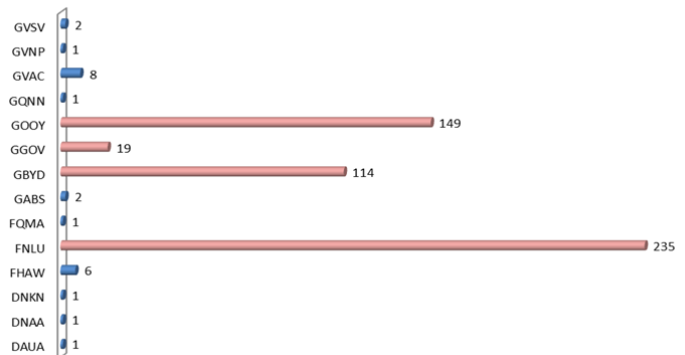
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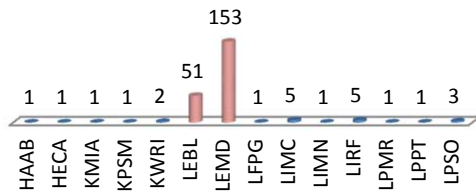
FPL received to LPPT by area with wrong address



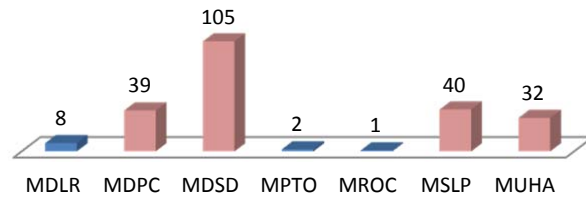
FPL received to LPPT with wrong address



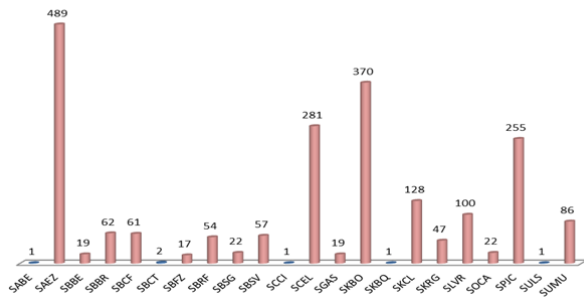
FPL received to LPPT with wrong address



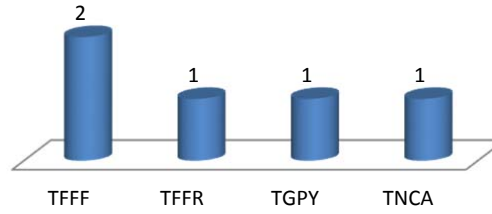
FPL received to LPPT with wrong address



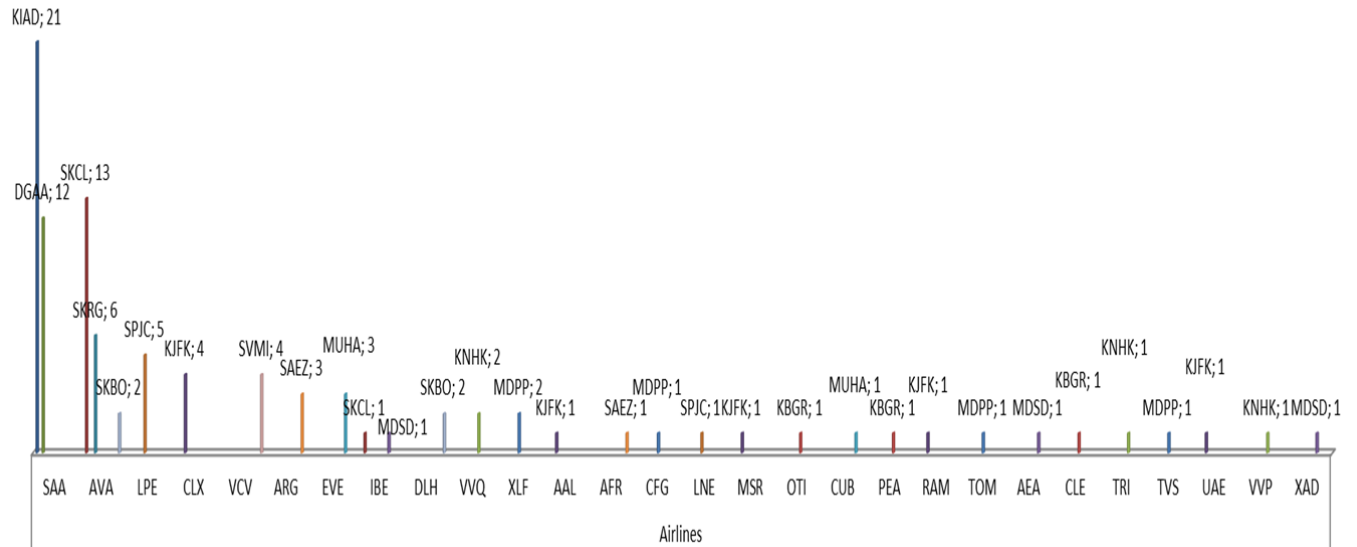
FPL received to LPPT with wrong address



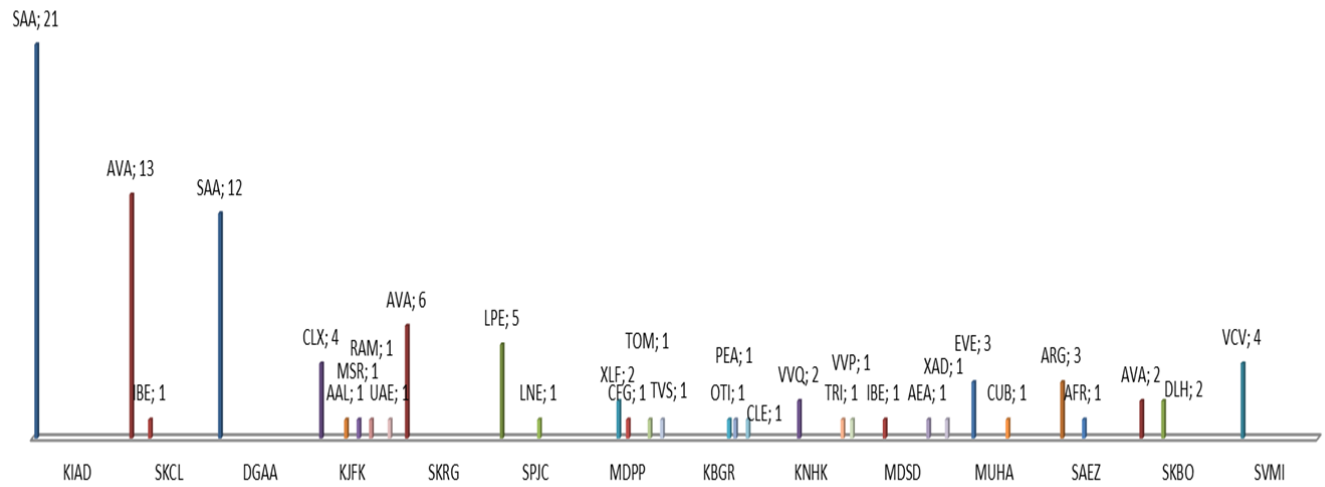
FPL received to LPPT with wrong address



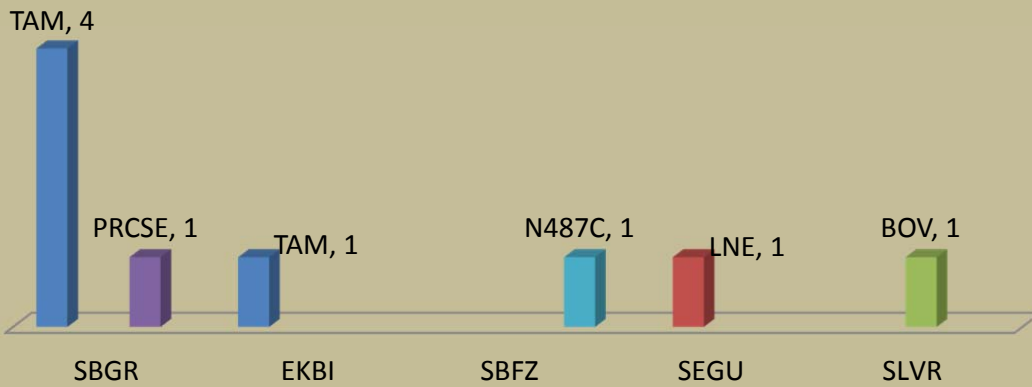
LPPO : Number of missing FPL original center in function of airlines

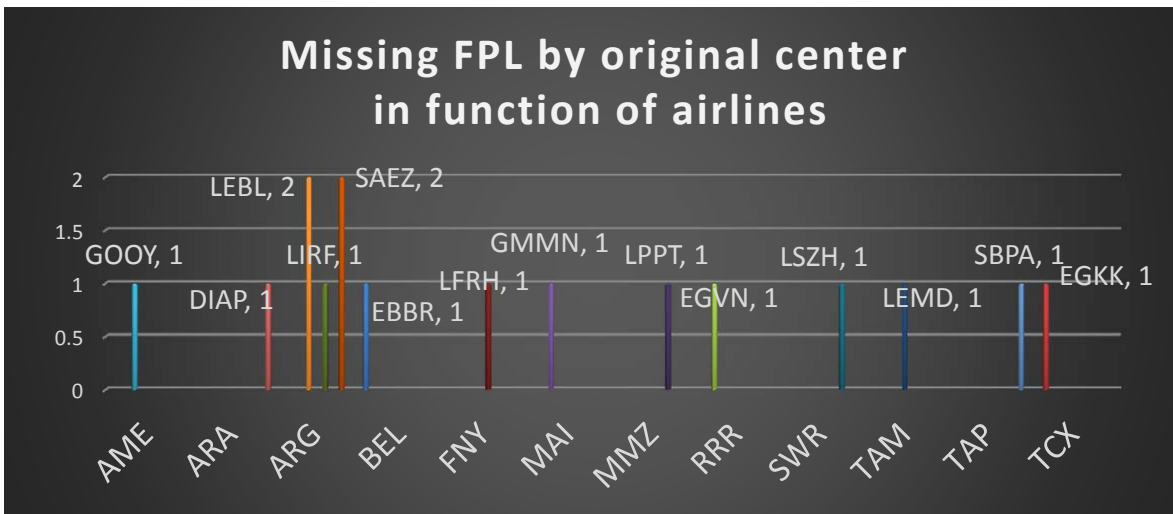
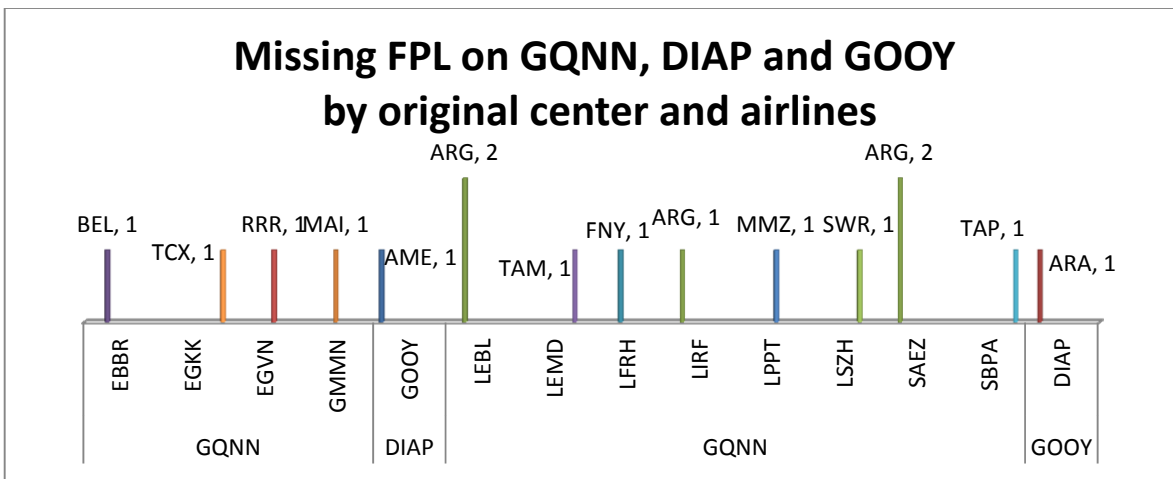
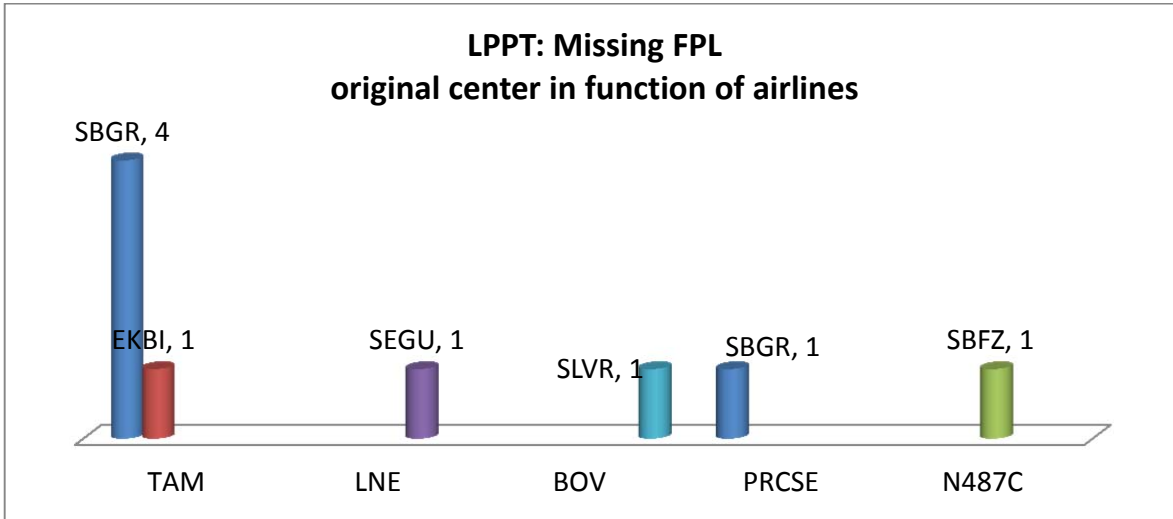


LPPO : Number of missing FPL airlines in function of original center

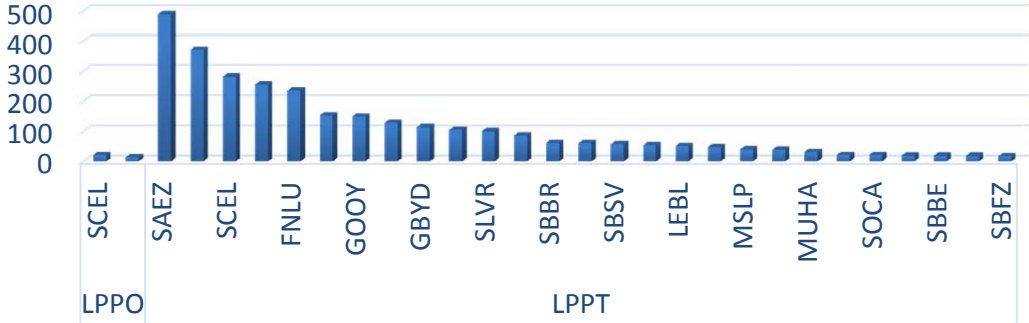


LPPT: Missing FPL airlines in function of original center





FPL received with wrong address by original center



FPL received with more 5 mn of delay

