



Communications/Navigation/Surveillance



INTRODUCTION

This present note illustrates the situation of the availability in terms of CNS in Antananarivo
FIR



INTRODUCTION

ASECNA provides aeronautical telecommunications services using AFTN and ATS / DS links for Aeronautical Fixed Service as well as VHF, HF and CPDLC for the Aeronautical Mobile Service means.



NETWORK OF FIXED AERONAUTICAL TELECOMMUNICATIONS SERVICE

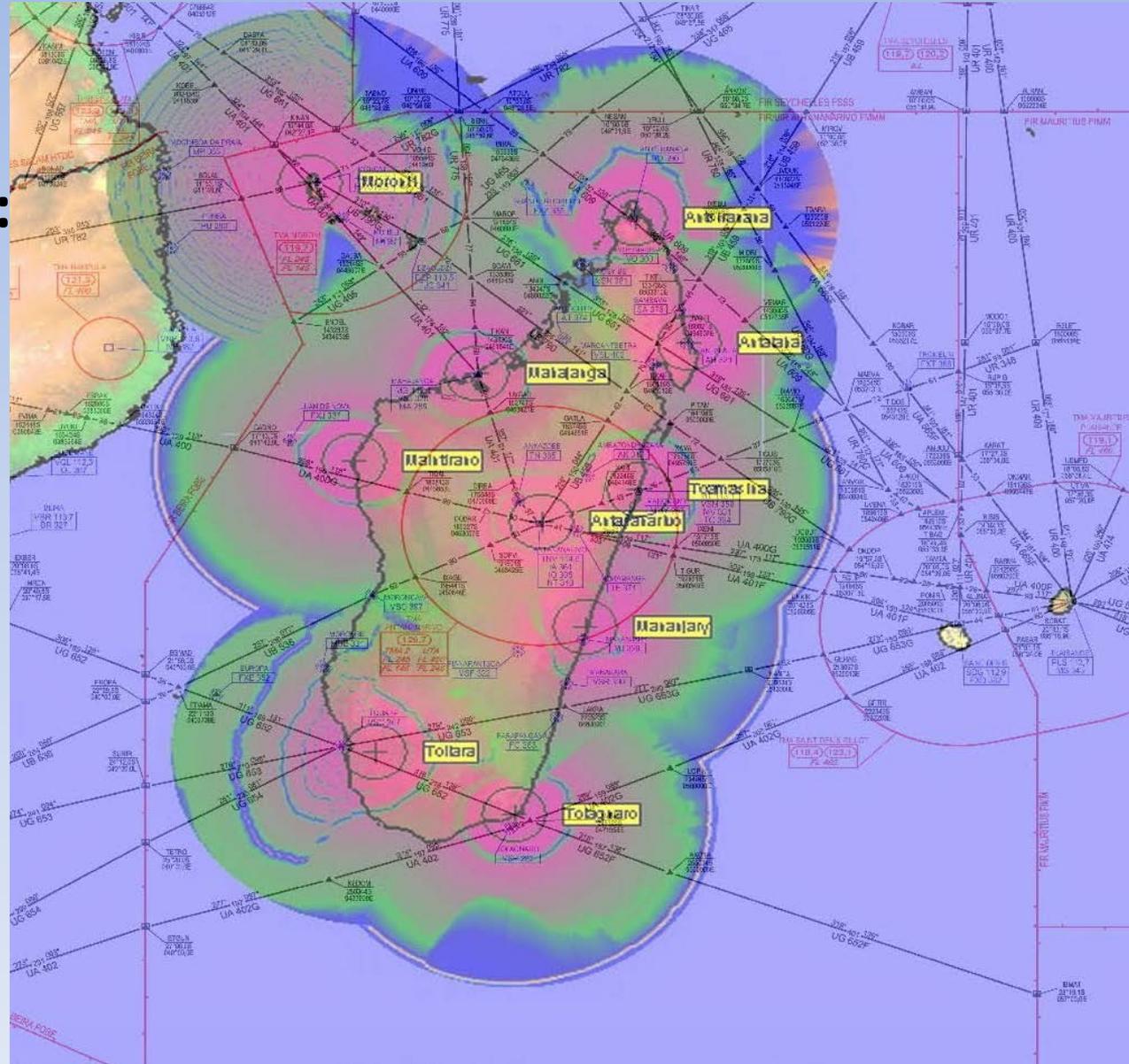
7 AFTN via AFISNET or SADC2 using V24 protocols
and ETHERNET :

Dakar - La Réunion - Plaisance - Moroni -Brazzaville
- Johannesburg - Dzaoudzi.



VERY HIGH FREQUENCY

**10 remote stations:
Covering 75% of
the FIR**



**Project: 3 new
stations in La
Réunion, at
Morondava and
Nosy Be**



HIGH FREQUENCIES

4 HF frequencies (8879 KHz, 5634 KHz, 3476 KHz and 13306 KHz) used as secondary or third mean of communication



CPDLC

Primary aircraft/ATC mean of communication for equipped aircrafts



SURVEILLANCE

- ADS-C since 2003
- ADS-B: a station at Antsiranana, in experimentation in collaboration with La Réunion and Seychelles Centers in 2012. Operational soon
- SSR: one at Ivato and one at Moroni set in 2014 operational in 2015



FOLLOW UP

The assistance is invited to consider:

- The extension and intensification of VHF coverage in the Tana FIR,
- The formalization of data exchange and interconnection for the visualization between centers,
- The improvement of communications between centers.

THANK YOU FOR YOUR ATTENTION