



ASECNA



**ITU REGIONAL WORKSHOP Role of
Telecommunications/ICT in disaster
management for the Central African
Region**

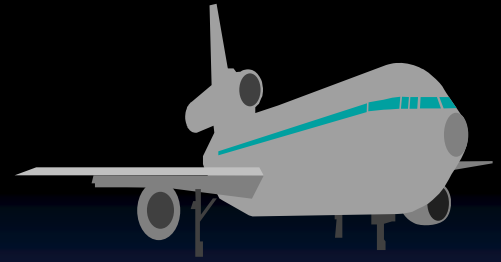
*Yaoundé, CAMEROON 30 May-1 June
2007*

*Presented by François-Xavier SALAMBANGA
ASECNA*

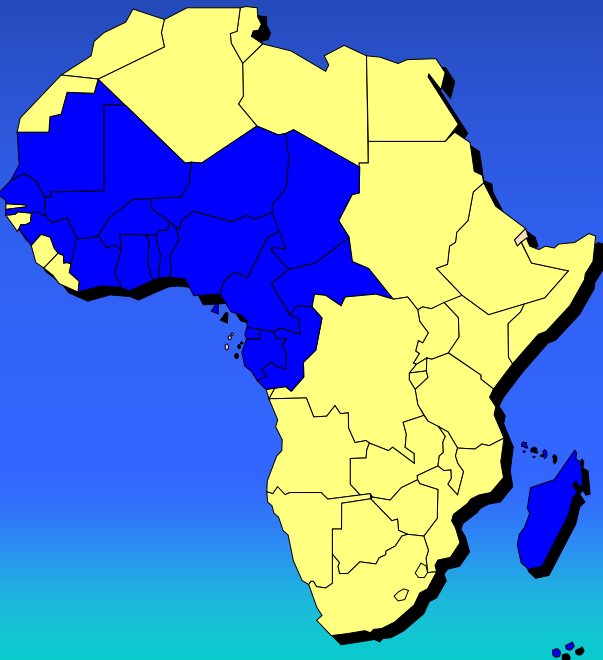
Salambangafra@asecna.org



SINCE 1959

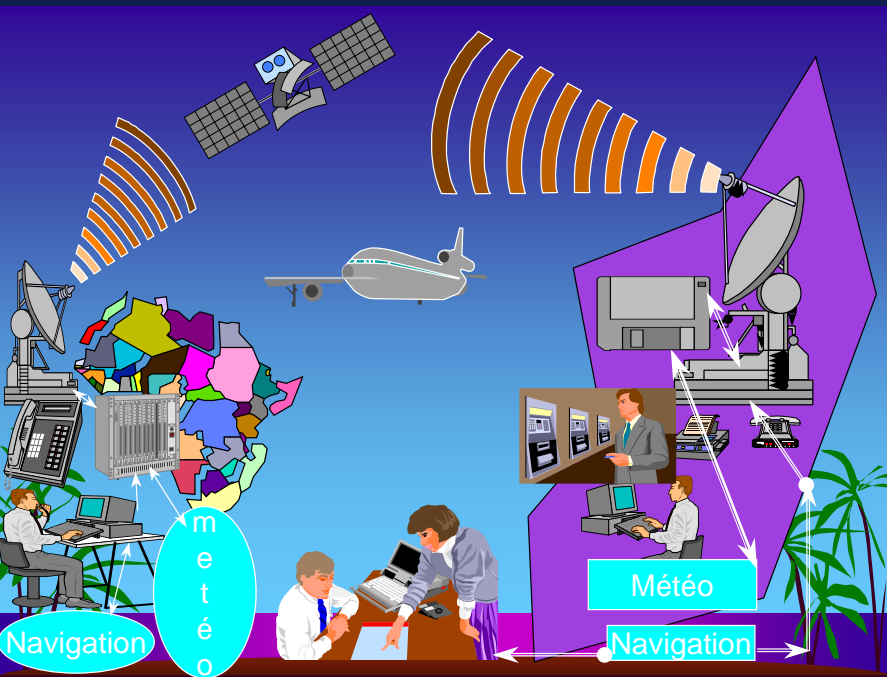


17 AFRICAN MEMBER STATES & FRANCE



- *16 000 000 Km²*
- *5 Flight information Regions*
- *Headquarter in Dakar*
- *17 Offices in Africa*
- *2 Offices in Paris and Montreal (ICAO)*

Air Navigation Safety Service Provider



ATC

- ✓ CNS
- ✓ ATM
- ✓ MET
- ✓ WARNING

FIS

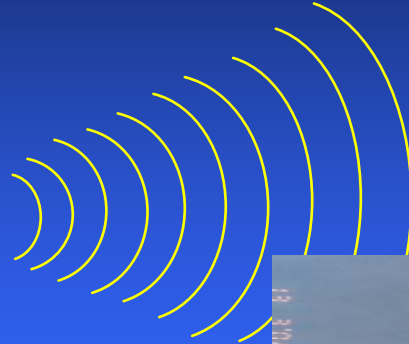
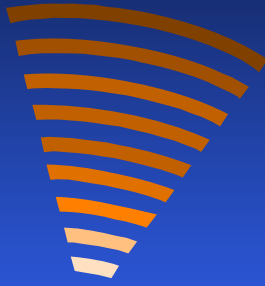
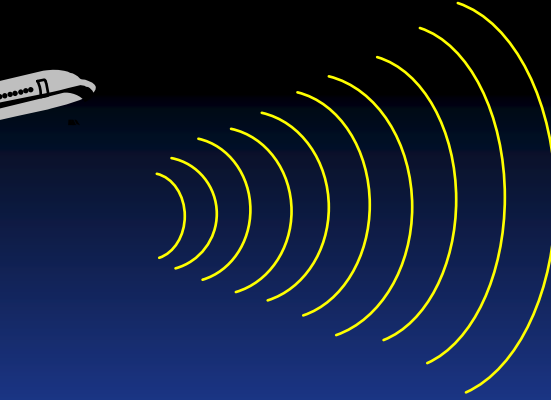
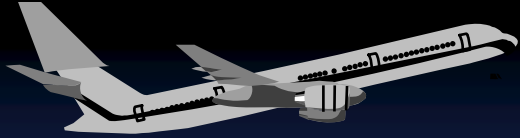
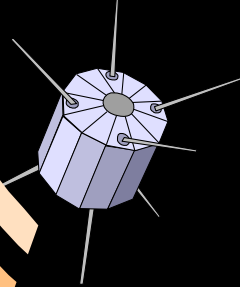


AERONAUTICAL MOBILE SERVICE (AMS)

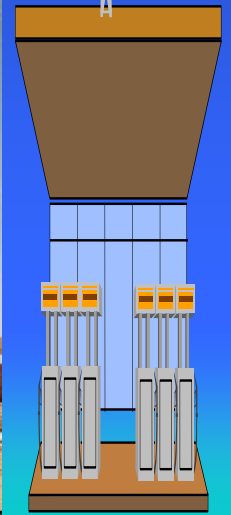
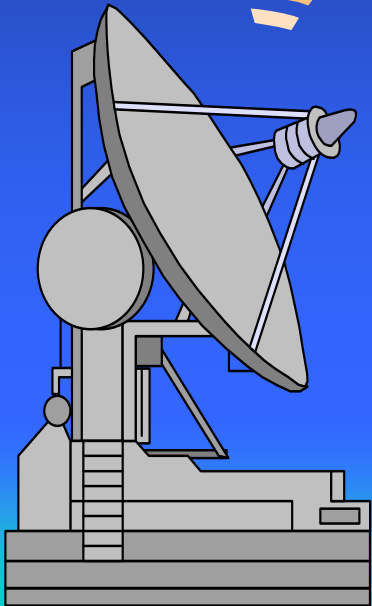


- HF Vocal COMMUNICATIONS
- VHF VOCAL COMMUNICATIONS
- Controller Pilot Data Link Communications (CPDLC)

Mobile Communications



TWR

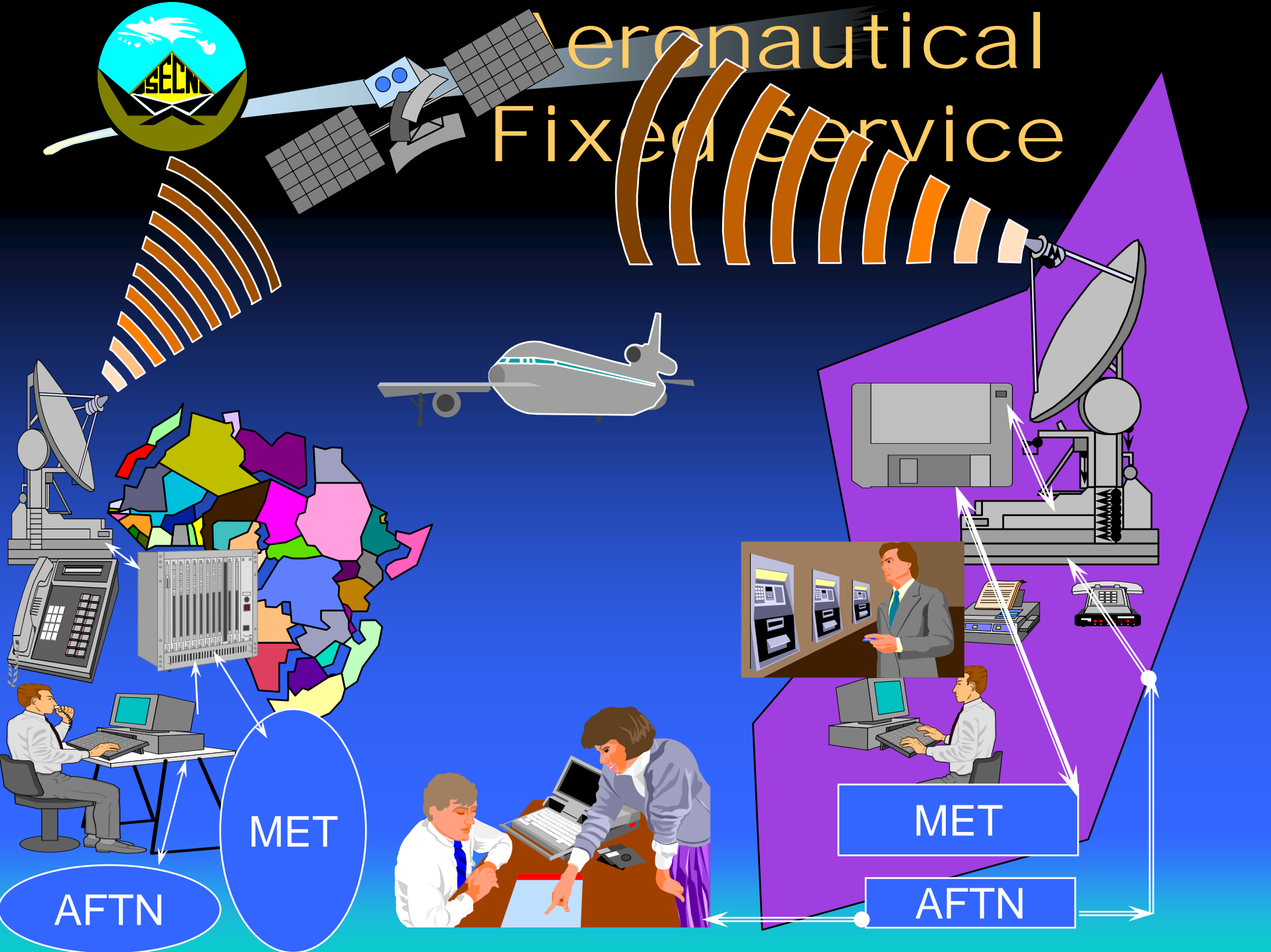


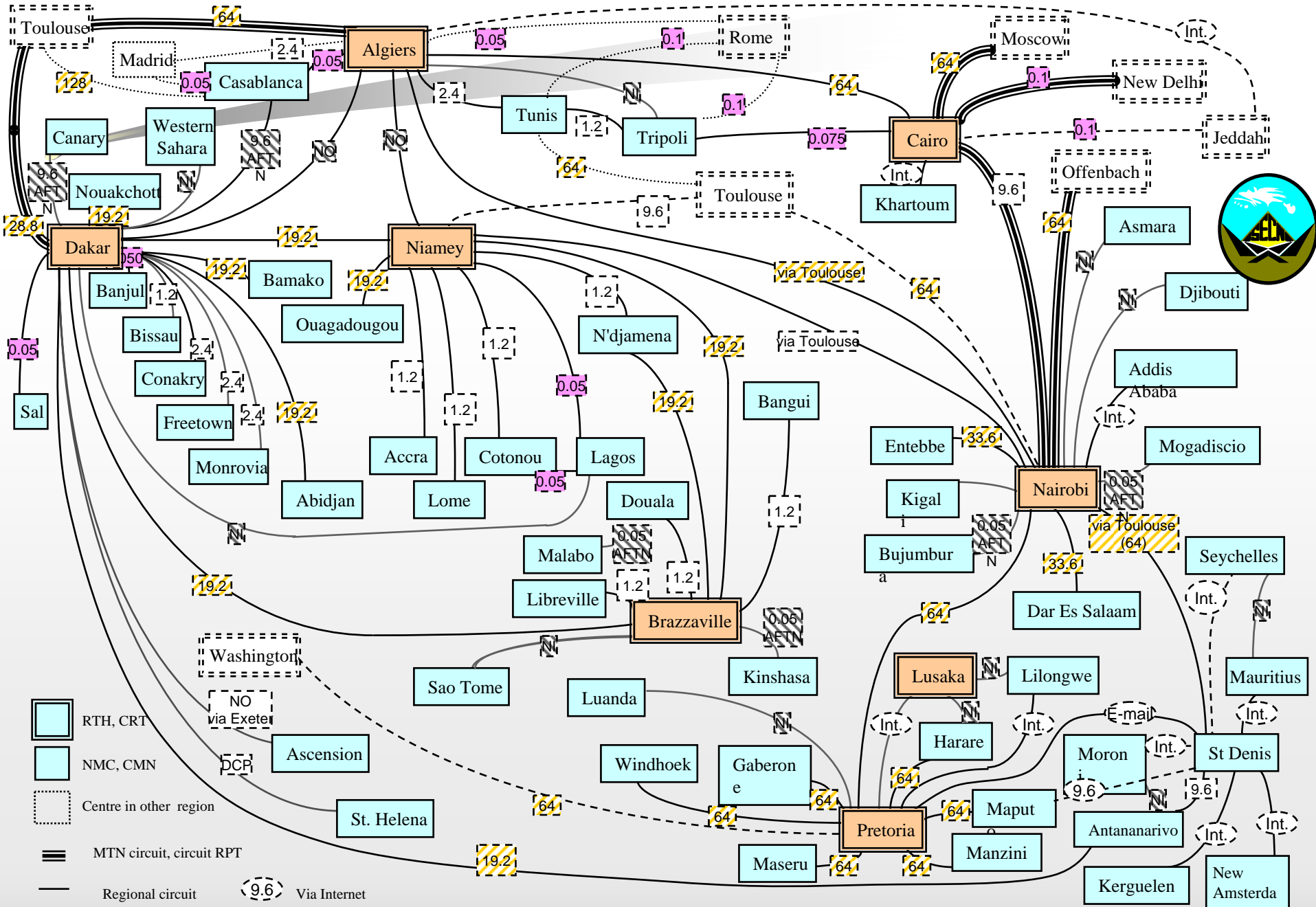
AERONAUTICAL FIXED SERVICES (AFS)



- AFTN
- GTS: MET
- ATS/DS
- Remote control & Remote Maintenance
- Navigation & Surveillance Datas
Transmission (GNSS & ADS)

Aeronautical Fixed Service





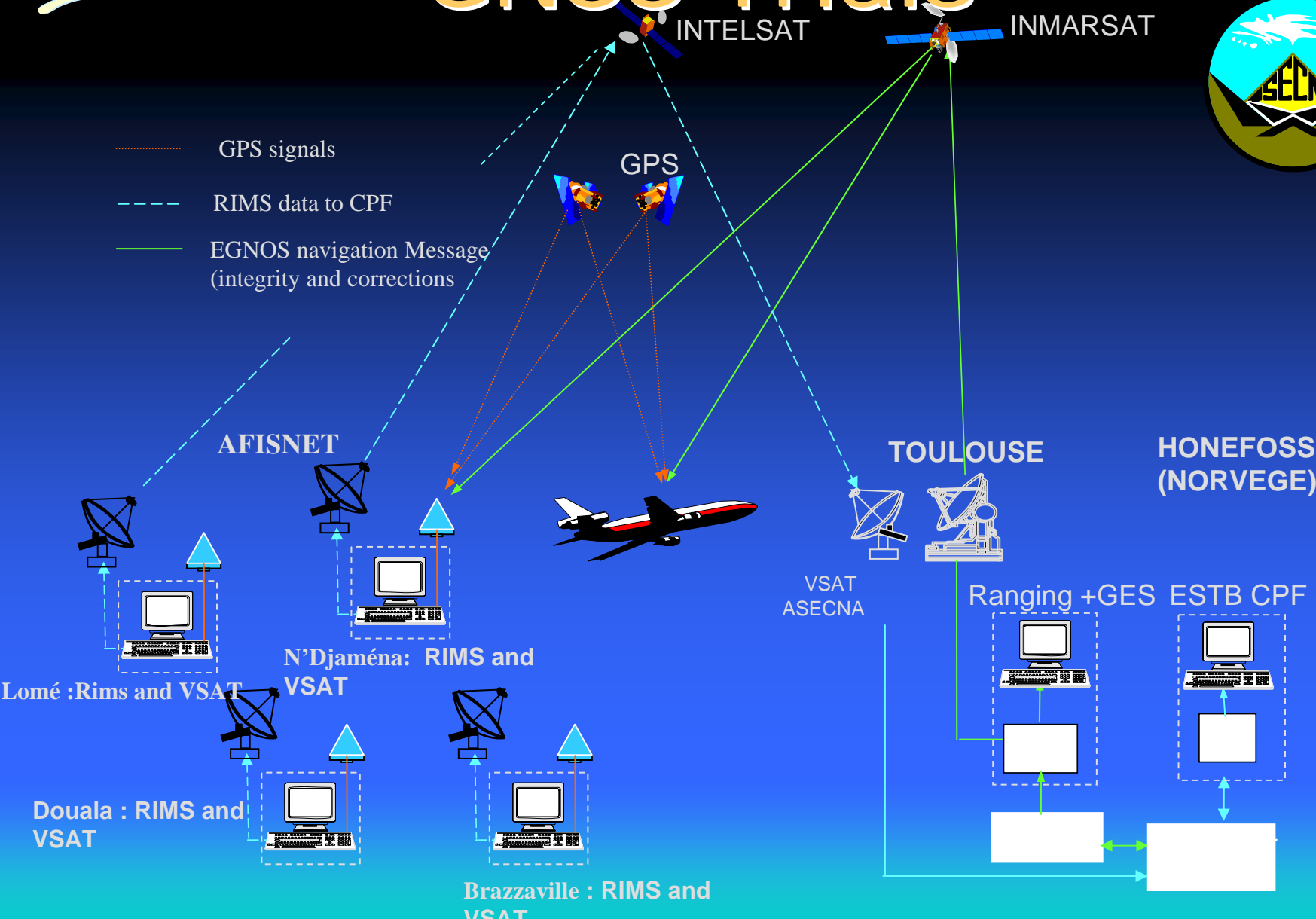
Regional Meteorological Telecommunication Network for Region I (Africa)
point-to-point circuits implementation (transmission speed in kbit/s)

AFISNET to SUPPORT Satellite Based Augmentation System (SBAS) for GNSS



- Installation of Four (04) Rims in LOME (Togo), Douala(Cameroun), Brazzaville (Congo), N'Djamena (Tchad)
- Statistical and dynamical trials with ASECNA ATR 42 flycheck aircraft
- Data transmission by AFISNET from each site to Toulouse and using a leased line between Toulouse and Honefoss

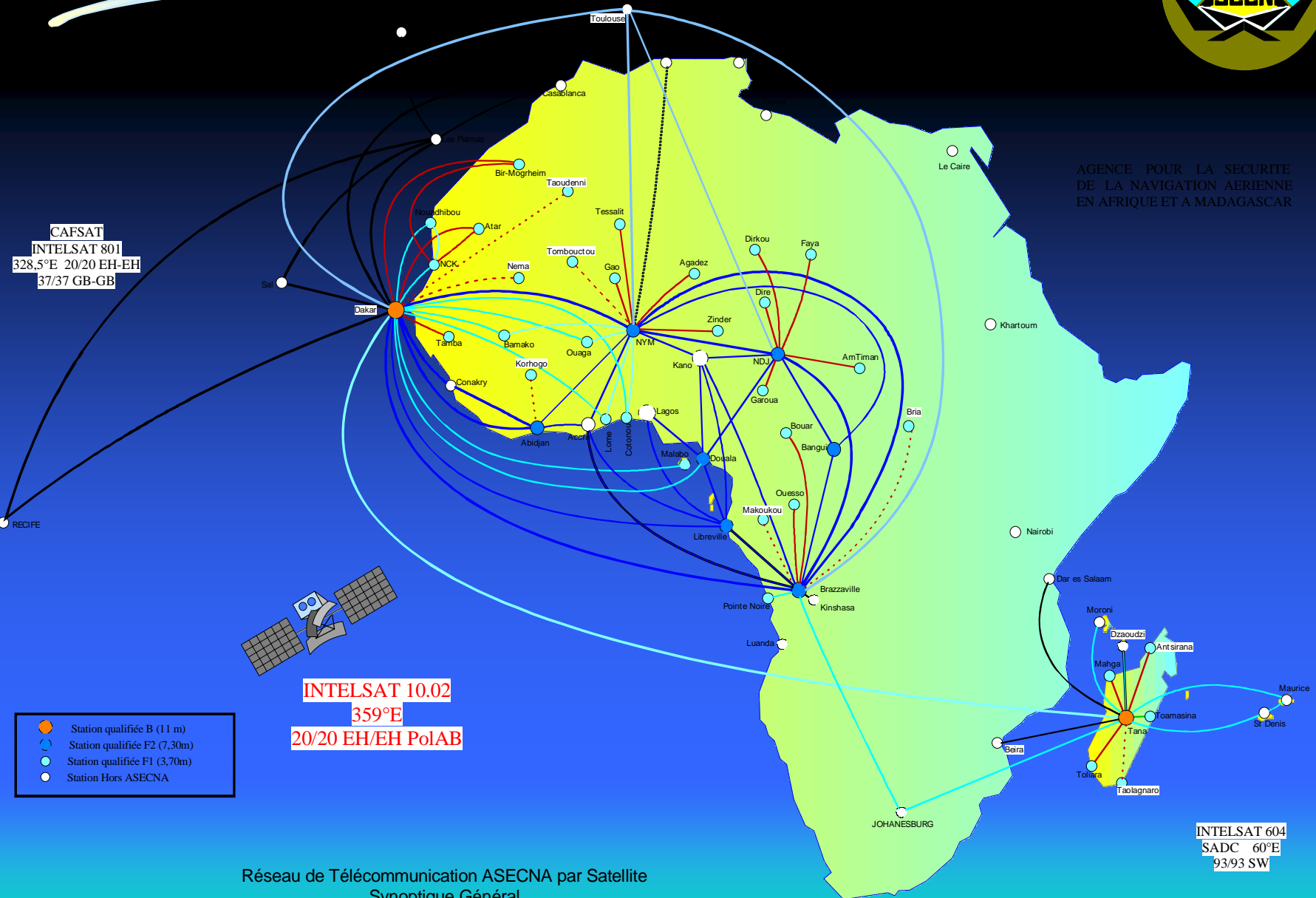
AFISNET TO SUPPORT GNSS Trials



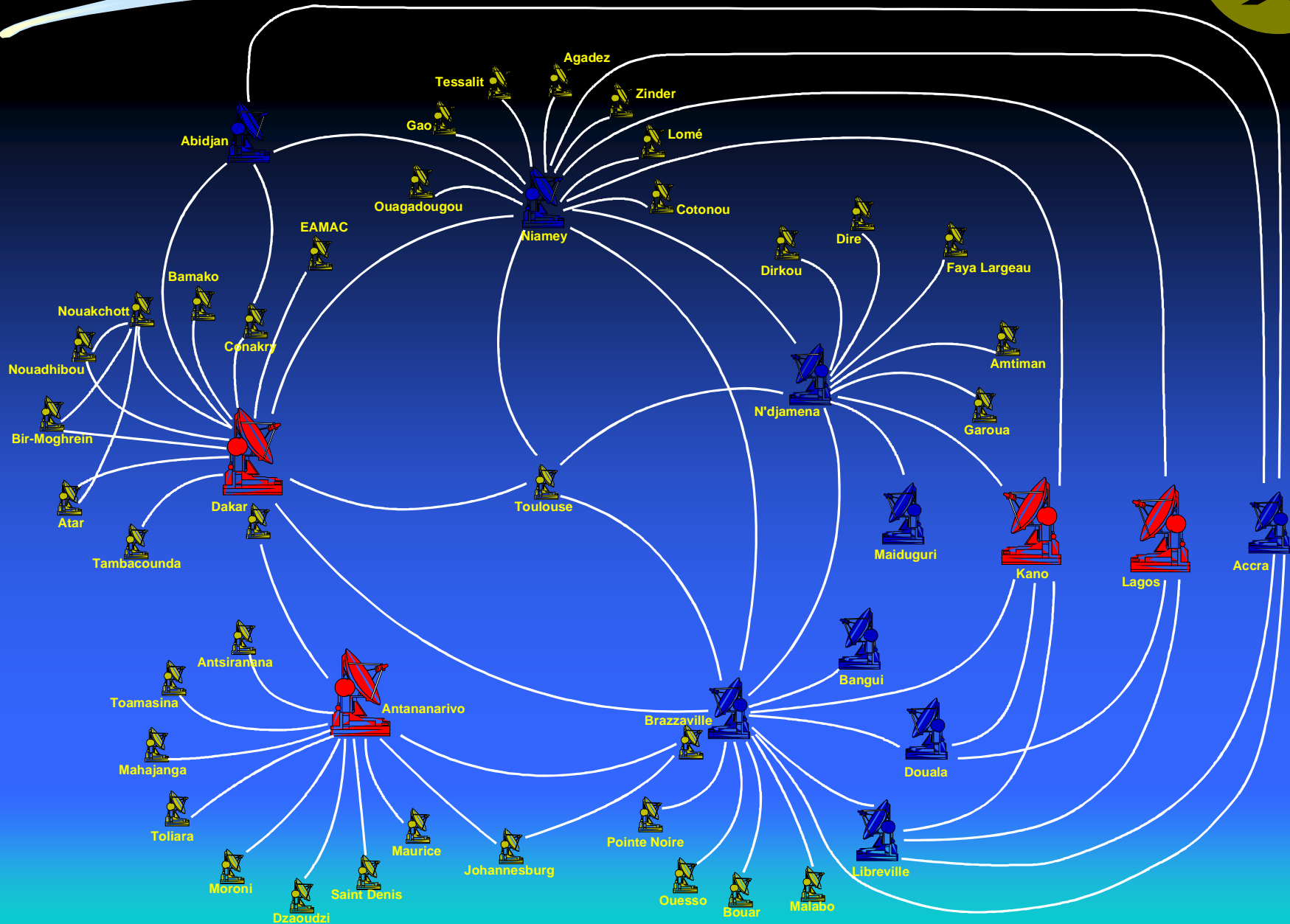
AFISNET



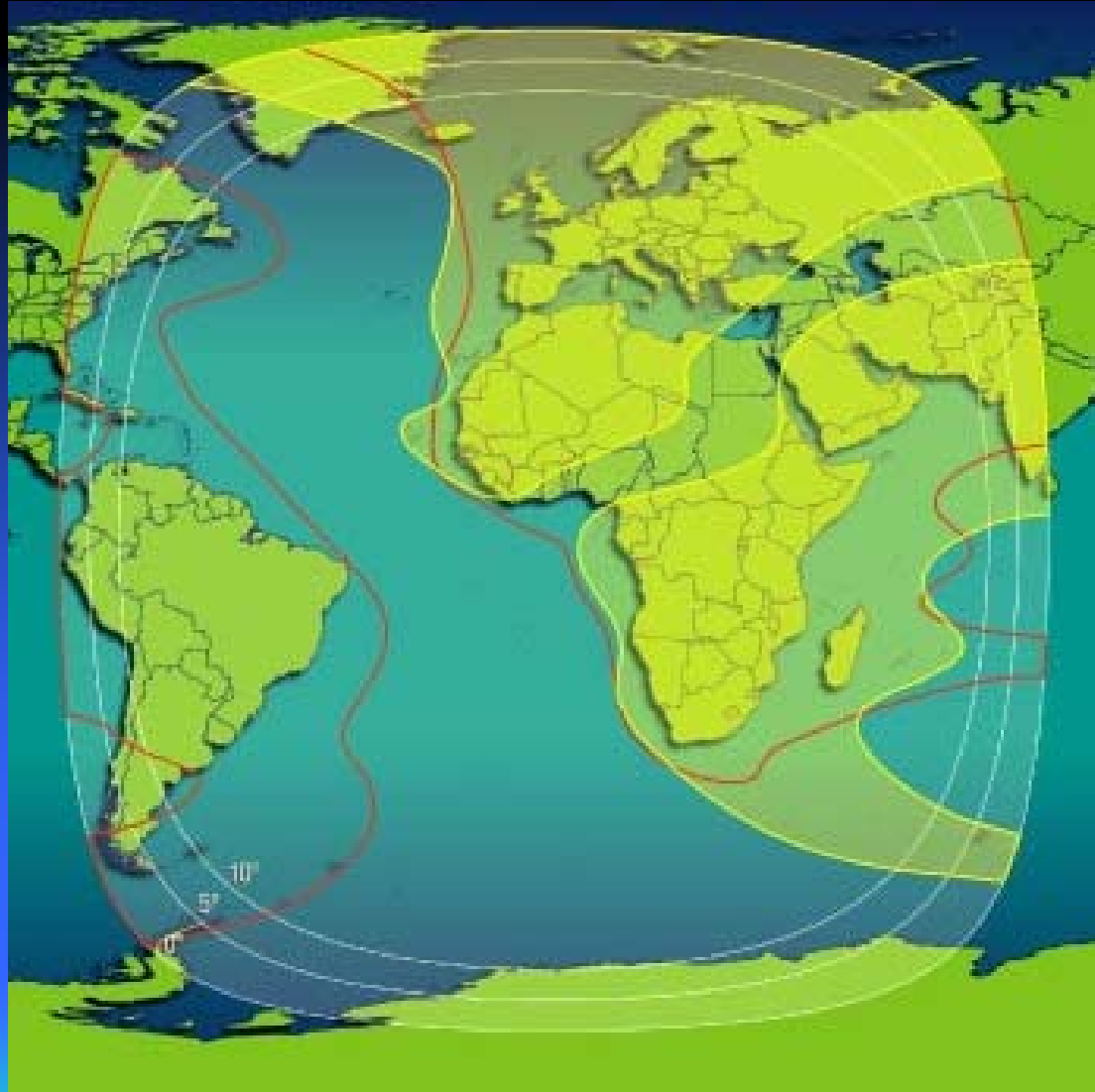
AGENCE POUR LA SECURITE
DE LA NAVIGATION AERIE
EN AFRIQUE ET A MADAGASCAR



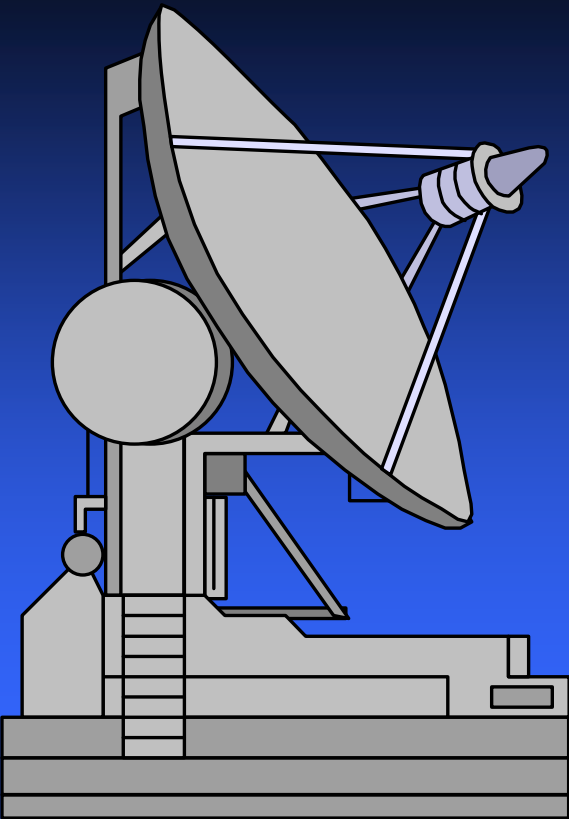
AFISNET: SYNOP



IS 10-02 @ 359°E Satellite coverage



Hub Stations in ASECNA



- **2 INTELSAT B STANDARD STATION**
 - DAKAR
 - ANTANARIVO
- **3 INTELSAT F2 STANDARD STATIONS**
 - NIMEY
 - BRAZZAVILLE
 - NDJAMENA

Exemple of ASECNA VSAT



- Digital Technology
- Antena diameter from 3m30 to 4m60
- Solar cells power supply
- Installation by internal teams





Thank you