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## ATS/AIS/SAR/SG/10

May, 13-15 2009

Agenda Item 11:

**Outcome of IATA Regional Survey on Air-Ground Communications**

**(WP/21)**

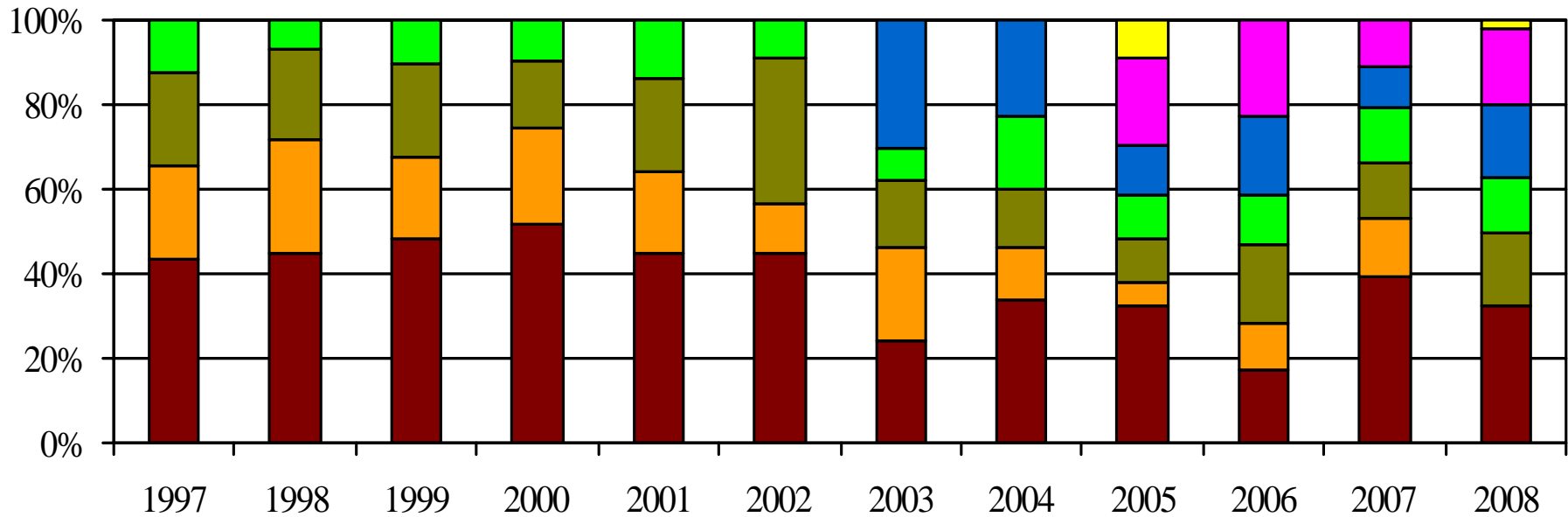


# AFI ATS Incidents Analysis Group (AIAG)

## ➤ Supports

- Infrastructure Development
  - AFISNET - SADC VSAT I & II - NAFISAT
- ATM Efficiency
  - RVSM Operations
- Air Navigation Safety
  - Safety Recommendations (from lessons learnt)

# AIAG/6 – AIRPROX Contributing Factors



■ Contribution of Controller Proficiency

■ Contribution of Co-ordination between ATS Units

■ Poor Discipline on board

■ ATS freq not used

■ Contribution of Airspace Organisation and ATC Procedures

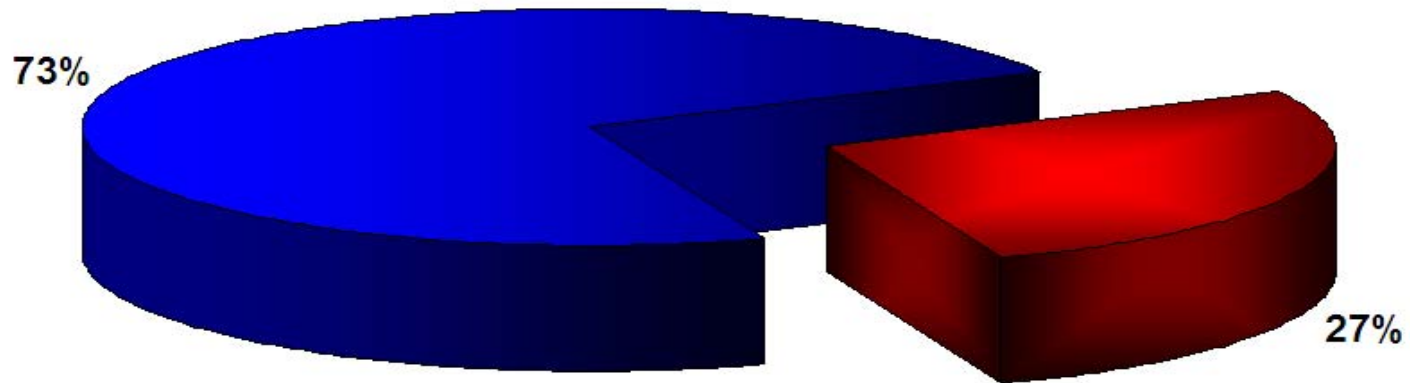
■ Contribution of Mobile Communications

■ IFBP not used

## IATA Regional VHF/HF Survey: 3-23 Feb 09

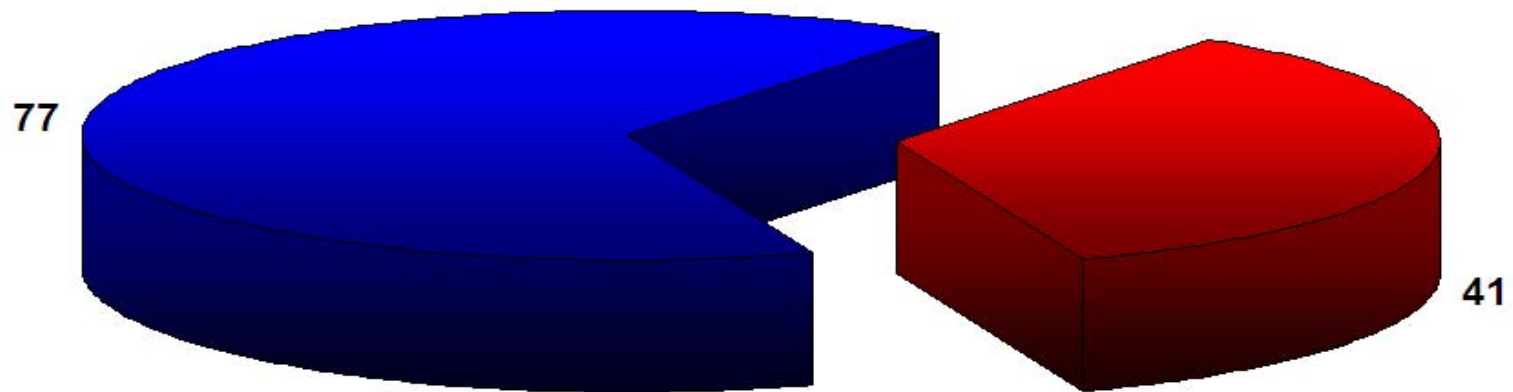
- APIRG/16 (November 2007)
  - Conclusion 16/20 & Decision 16/19.
  - Support to IATA surveys (every 18 months) + ICAO Coordination.
- Objective
  - To determine VHF/HF coverage within the region in order **to identify deficiencies in communications** and arrive at corrective action plans
- Participation
  - **Airlines: 11 (only 3 AFI based)**
    - AF (Air France), BA (British Airways), EK (Emirates), KLM (Royal Dutch Airlines) LX (Swiss Airlines), VK (Virgin Nigeria), LH (Lufthansa), ET (Ethiopian Airlines), SN (Brussels Airlines), KQ (Kenya Airways) and TP (Air Portugal).
  - **States: 19 (out of 53) = 34%**
    - Tunisia (Tunis FIR), Zimbabwe (Harare FIR) and ASECNA (Antananarivo, Brazzaville, Ndjamena, Niamey and Dakar FIRs).

## Air Ground Communications Survey Feb 09 - Summary.ppt



■ Use of VHF ■ Use of HF.

## Air Ground Communications Survey Feb 09 - Summary.ppt

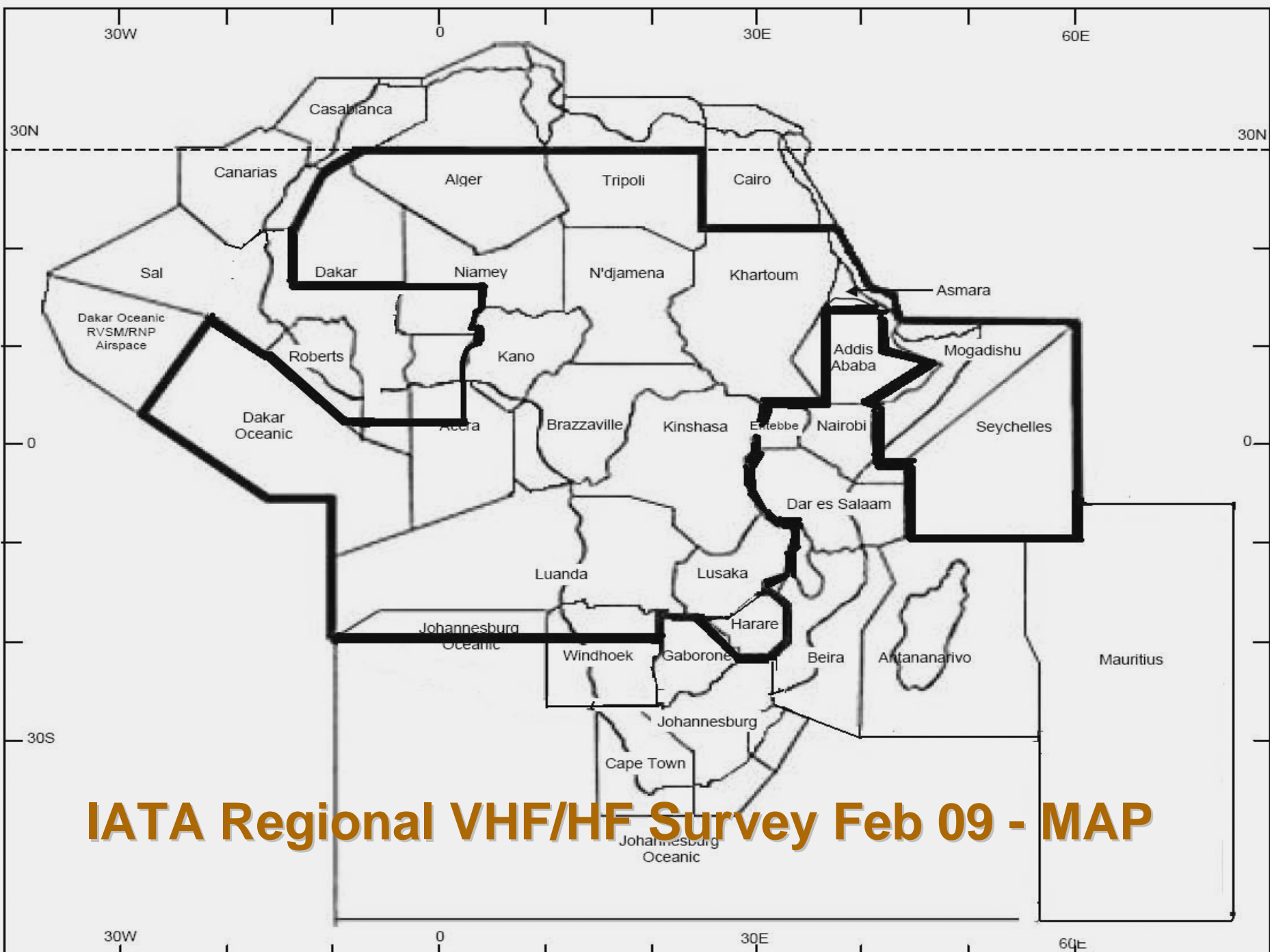


■ % Successful VHF Usage ■ % Successful HF Usage

# Overview of VHF & HF Survey – Feb 09

➤ [Air Ground Communications Survey Feb 09 - VHF.ppt](#)

➤ [Air Ground Communications Survey Feb 09 - HF.ppt](#)



# IATA Regional VHF/HF Survey Feb 09 - MAP



# Conclusion (1/2)

## ➤ Participation

- Low level (34% of AFI States)
- Few data received from pilots in most cases
  - No or few reports for mandatory reporting points

## ➤ Improvements noted:

- Ex: Accra, Addis, Dakar, Niamey FIRs

## ➤ Degradation noted as compared to :

- Last Survey (3-23 September 2007) and RVSM Switchover preparations
- Ex: Brazzaville (NE), Harare (SW), Kano, Khartoum, Kinshasa, Luanda, Mogadishu, Seychelles, Tripoli FIRs

## Conclusion 2/2

### ➤ VHF

- Low availability (77%)
- Problems noted with remote stations
- Extension potential exhausted
- Densification versus Climax limitations

### ➤ HF

- Low availability (41%)
- Low performance (solar physics)

### ➤ CPDLC

- AFI ANP requirement (APIRG/13, June 2001)
- Low level of implementation (trials)
- Support to Air-Ground Communications improvements
- Support to Remote Airspace Concept (PBN) – Continental en-route.