



Regional Aviation Safety Group – Pan America (RASG-PA) Introduction

3rd RASG-PA Aviation Safety Workshop

Mexico City, Mexico, 30 – 31 January 2012

Presented by

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Regional Officer Flight Safety

ICAO

Air Transport

- Safe, secure and sustainable activity
- Safest mode of transportation
- Efficient mode of transportation
- Provides economic and social benefits





Air Transport Facts (Source ATAG 2008)

- Some 2,000 airlines in the world operate a total fleet of 23,000 aircraft
- Serve some 3,750 airports through a route network of several million kilometres managed by around 160 air navigation service providers
- Air transport industry generates 32 million jobs globally, through direct, indirect, induced and catalytic impacts
- Aviation's global economic impact (direct, indirect, induced and catalytic) is estimated at USD 3,560 billion, equivalent to 7.5% of world Gross Domestic Product (GDP)



Air Transport Today

- 2010 rate of accidents on schedule flights was one of the lowest
- Jet aircraft are 70% more fuel efficient and quieter than those in the 1960s
- 2010: 2.5 billion passengers
- ICAO expects global air traffic to grow (pax-km performed)
 - 5.3% in 2011
 - 6.2% in 2012
 - 6.1% in 2013
- ICAO Safety Objective 2011-13 is to enhance global civil aviation safety

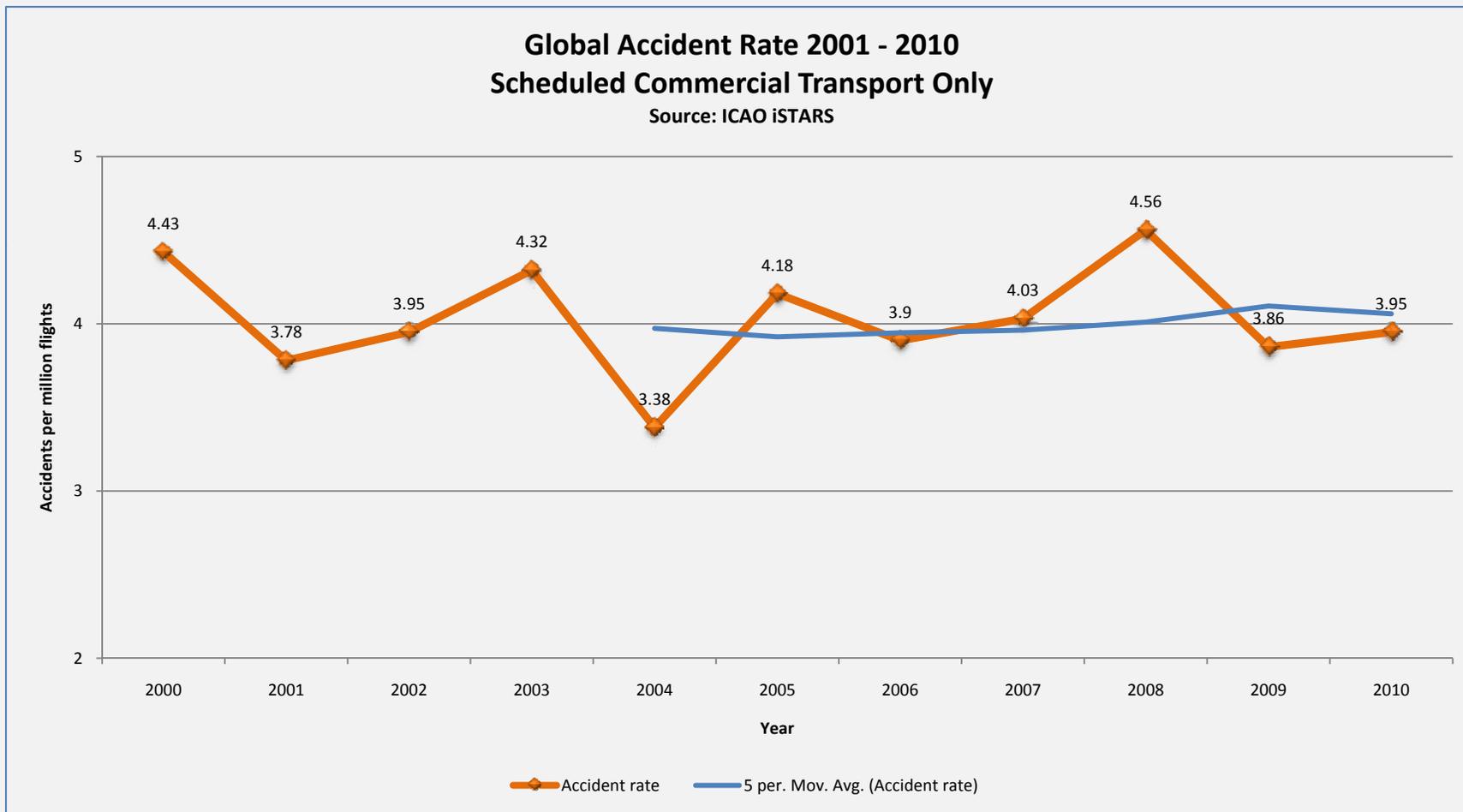
Despite all the efforts...

**Georgetown,
Guyana
30 July 2011**

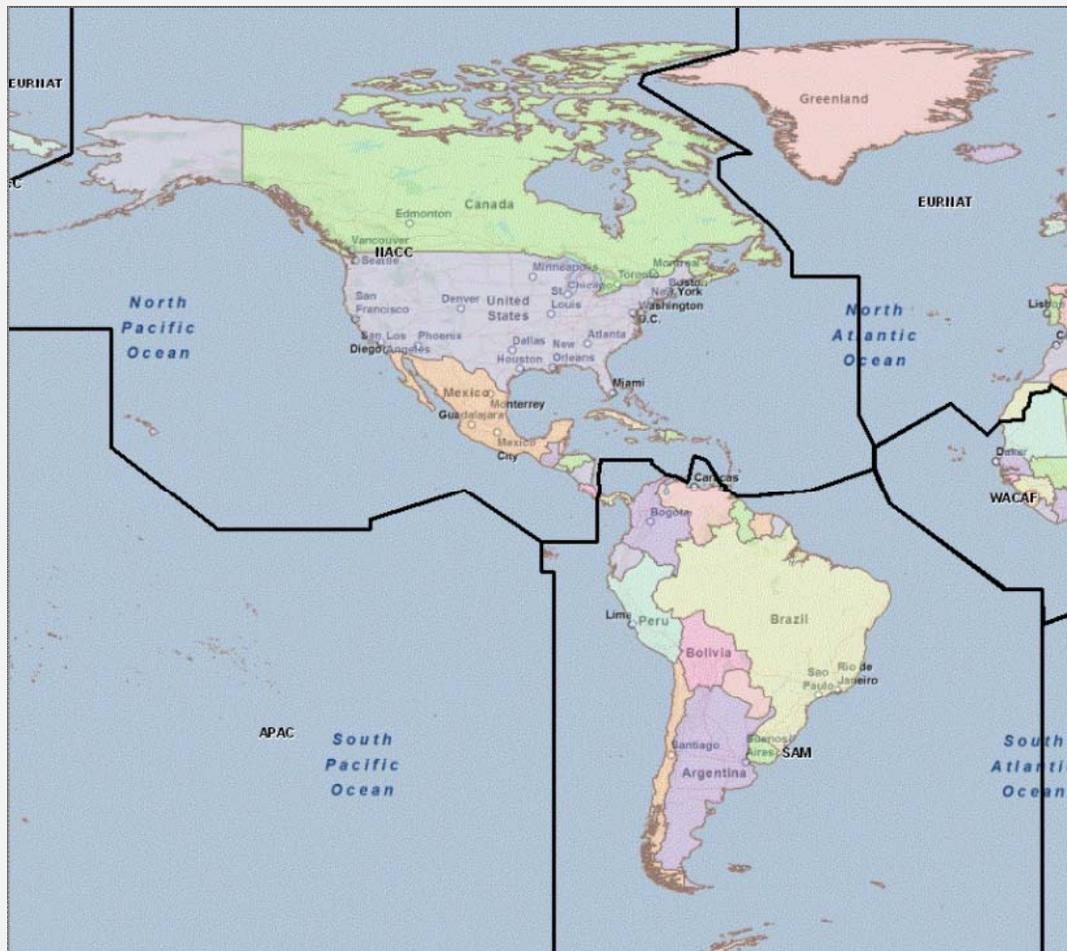


...there are accidents!

Global Accident Rate



Pan America Region



2010 Pan America Accidents

- Number of accidents in 2010
 - 34.4% below 2009
 - 46.3% below the 10 year average
- Fatalities on board in 2010
 - 5.5% below 2009
 - 41.0% below the 10 year average
 - 9 of the 53 fatal accidents involved aircraft with maximum takeoff mass above 5,700 kg
 - 2 in Colombia, 1 in Cuba, 1 in Mexico, 1 in Suriname, 2 in the United States and 2 in Venezuela

Source: RASG-PA Annual Safety Report 2010

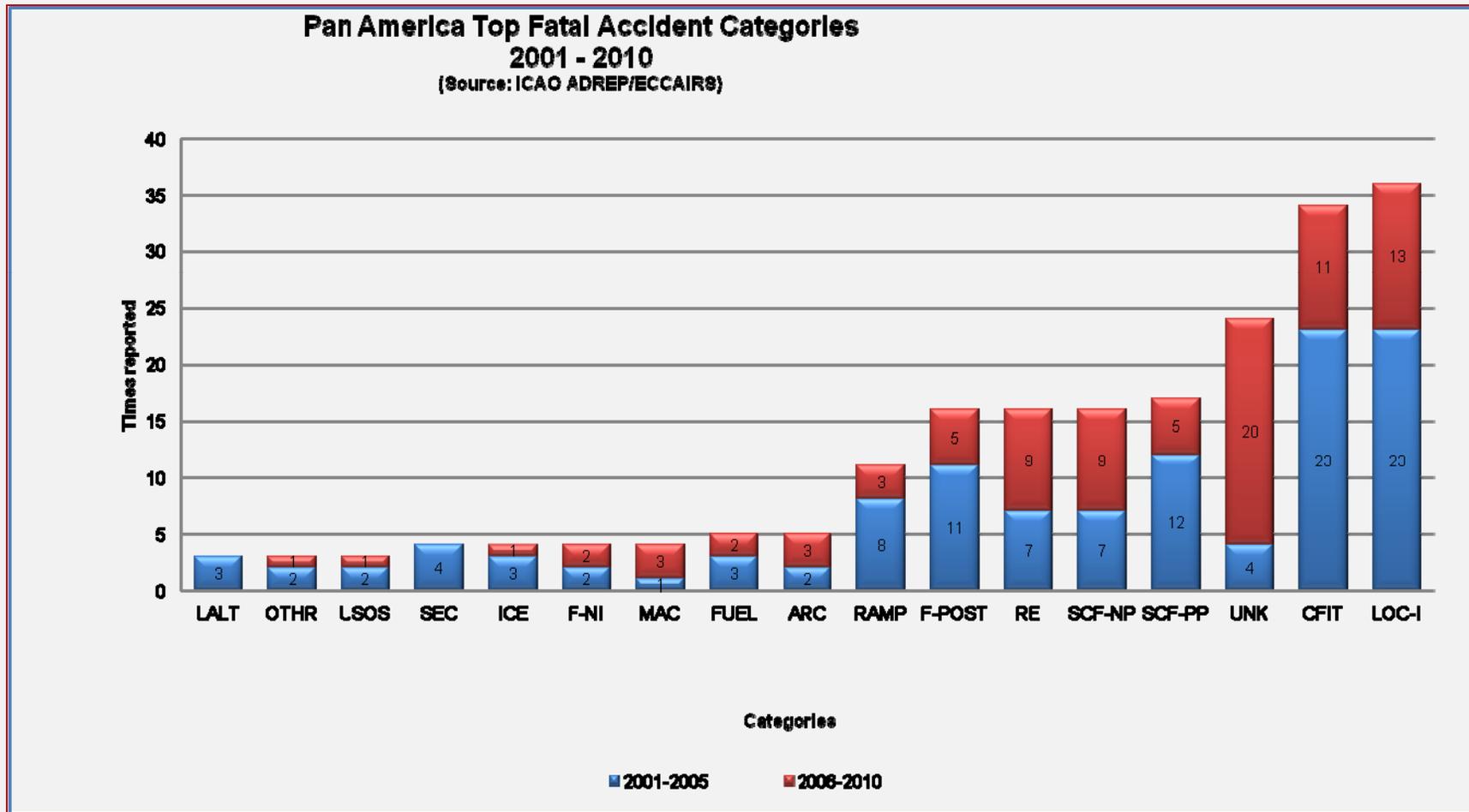
Pan America Region Accident Figures

Years	Accidents	Fatal Accidents	Fatalities on board	Fatalities on ground
2000- 2009 avg.	373,7	90,6	396,0	7,5
2009	316	60	256	2
2010	214	57	263	3

Source: RASG-PA Annual Safety Report 2010

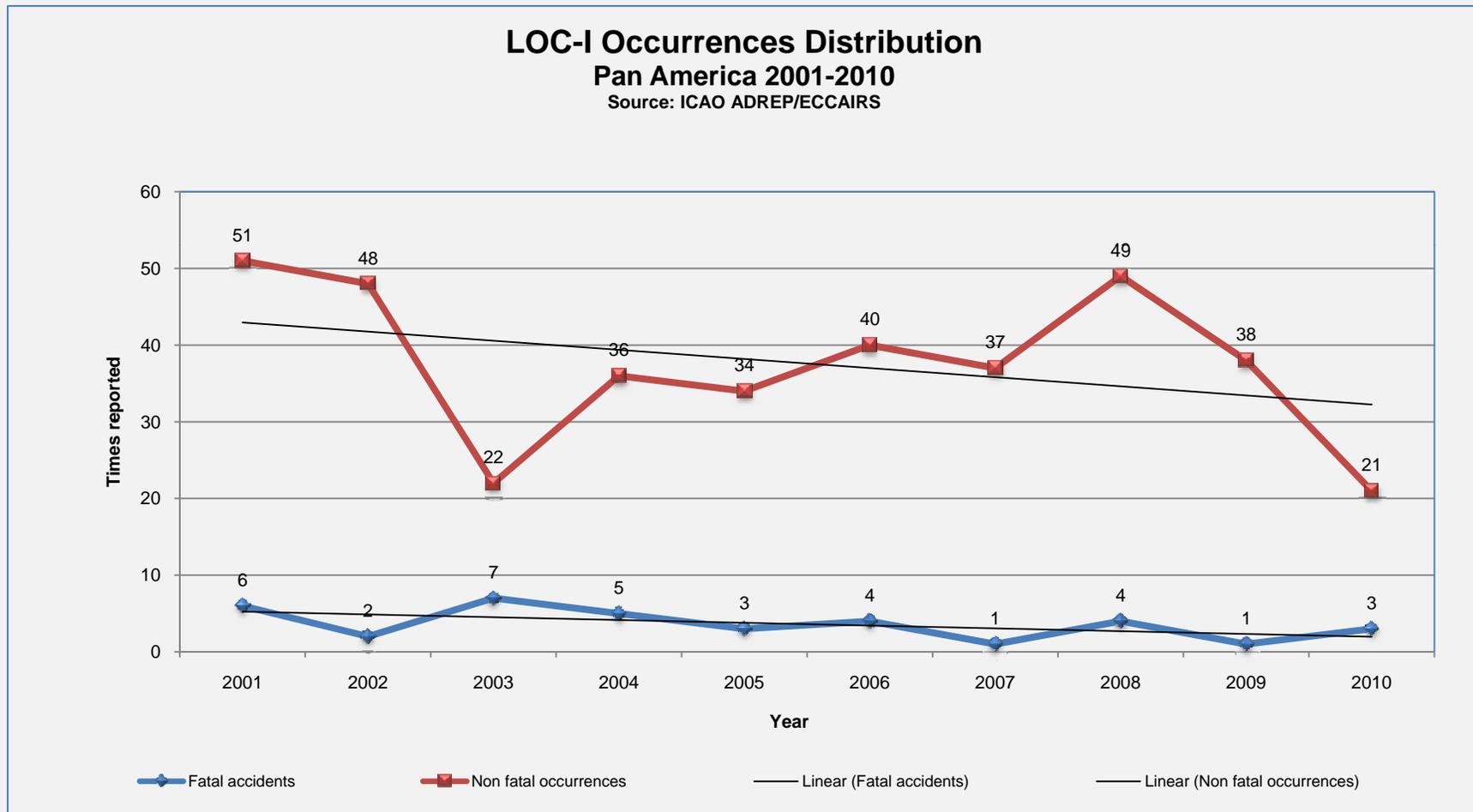
[Source: ICAO ADREP/ECCAIRS](#)

Pan America Region Top Fatal Accident Categories

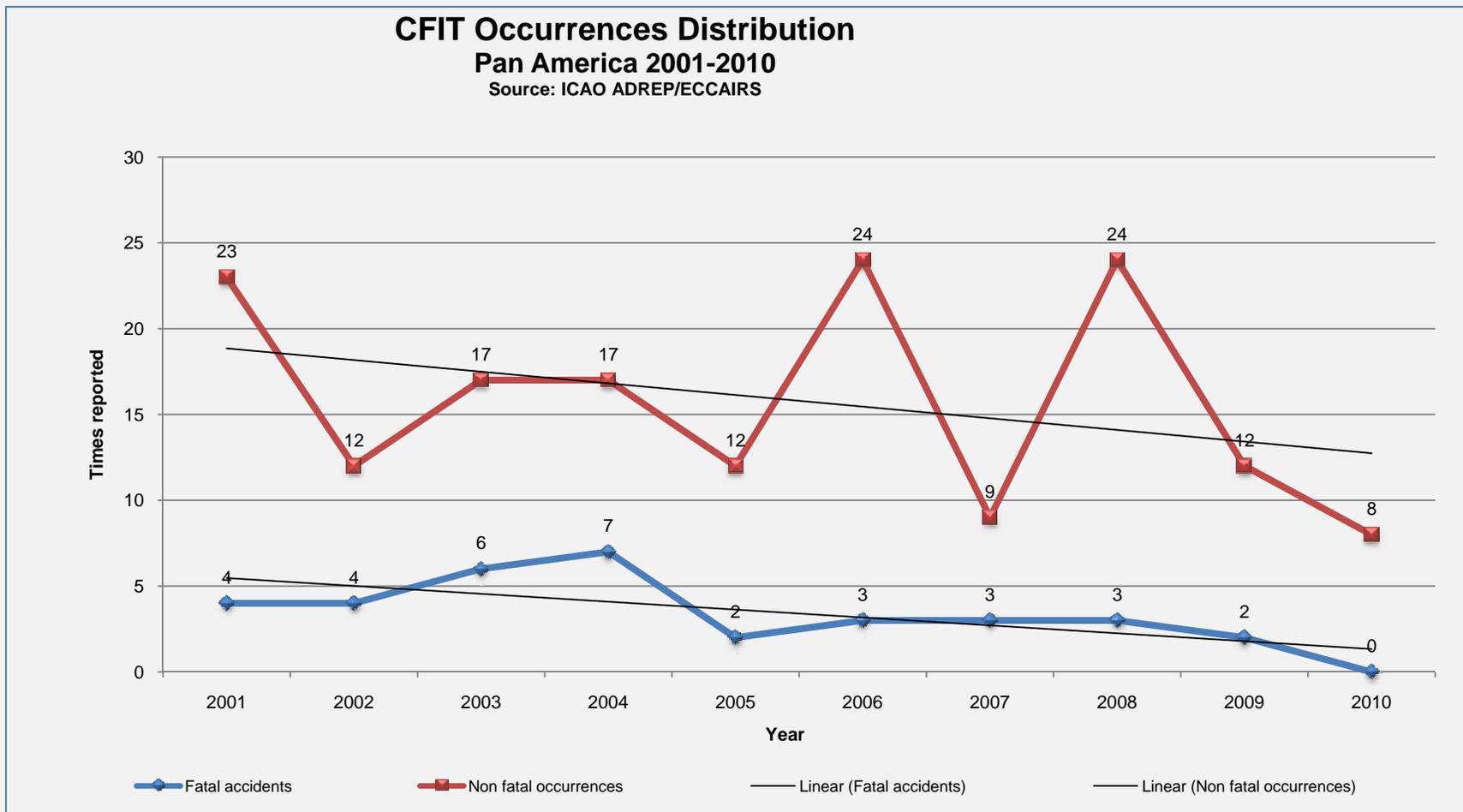


Source : RASG-PA Annual Safety Report 2010

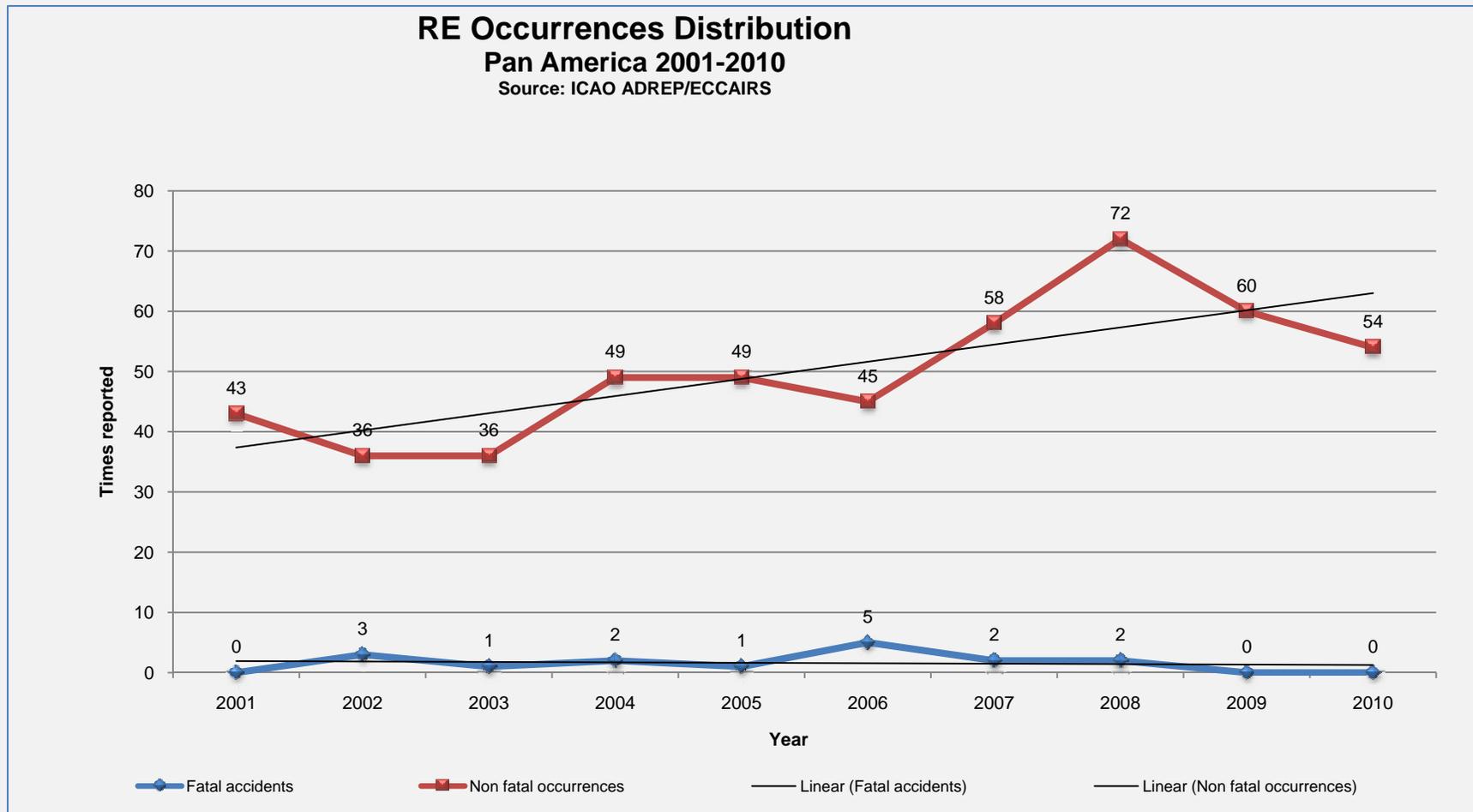
LOC-I Occurrences Distribution



CFIT Occurrences Distribution



RE Ourrences Distribution





Pan American Region Safety Challenge

- Need for improvement
 - Safety oversight, infrastructure, ANS, training, etc.
- ICAO and the industry in Pan American Region created:
 - The Regional Aviation Safety Group – Pan America (RASG-PA)
- Align with the objectives of:
 - ICAO Global Aviation Safety Plan (GASP)
 - ISSG Global Aviation Safety Roadmap (GASR)





Regional Aviation Safety Group – Pan America (RASG-PA)

- Established in November 2008
- NAM/CAR/SAM regional focal point for aviation safety
- Ensures harmonization and coordination of safety initiatives
- Avoid duplication of efforts
- Reduces the use of human and fiscal resources



RASG-PA Characteristics

- First initiative of its kind globally
- Regionalization of safety initiatives
- Combines experiences and resources of governments and industry
- Existence depends on participation commitment and members' contribution
- Recognize by ICAO



RASG-PA Safety Activities

- 2009: identified 3 top data-driven risk areas (fatalities) in NAM/CAR/SAM Regions:
 1. RE: Runway Excursion
 2. CFIT: Controlled Flight Into Terrain
 3. LOC-I: Lost of Control In-Flight
- 2010: recommended Safety Enhancement Initiatives (SEIs) to mitigate 3 top data-driven risk areas
- 2011: applying Detailed Implementation Plans (DIPs)



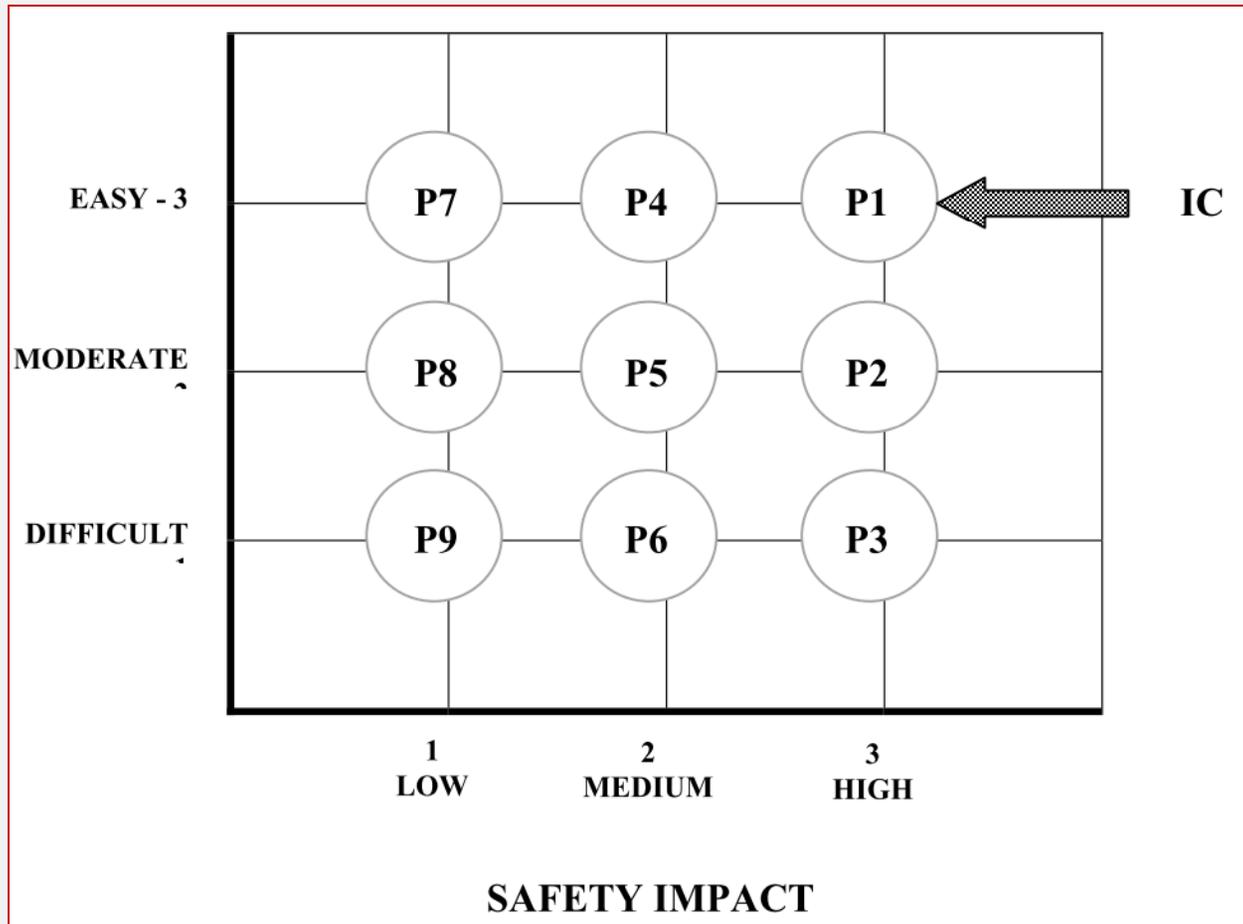
RASG-PA Safety Activities cont.



- Aviation Safety events:
 - 1st & 2nd Pan American Aviation Safety Summits: Brazil (2010), Mexico (2011)
 - 1st & 2nd Aviation Safety Workshops: Mexico (2011), Venezuela (2011)
- Establishment of 3 Teams:
 1. PA-RAST: Pan America - Regional Aviation Safety Team
 2. ASTT: Aviation Safety Training Team
 3. ASRT: Annual Safety Report Team
- Projects:
 1. Legislative Framework to Protect Safety Hazard Information
 2. FOQA Data Sharing
 3. Central America Accident & Incident Prevention Investigation Commission

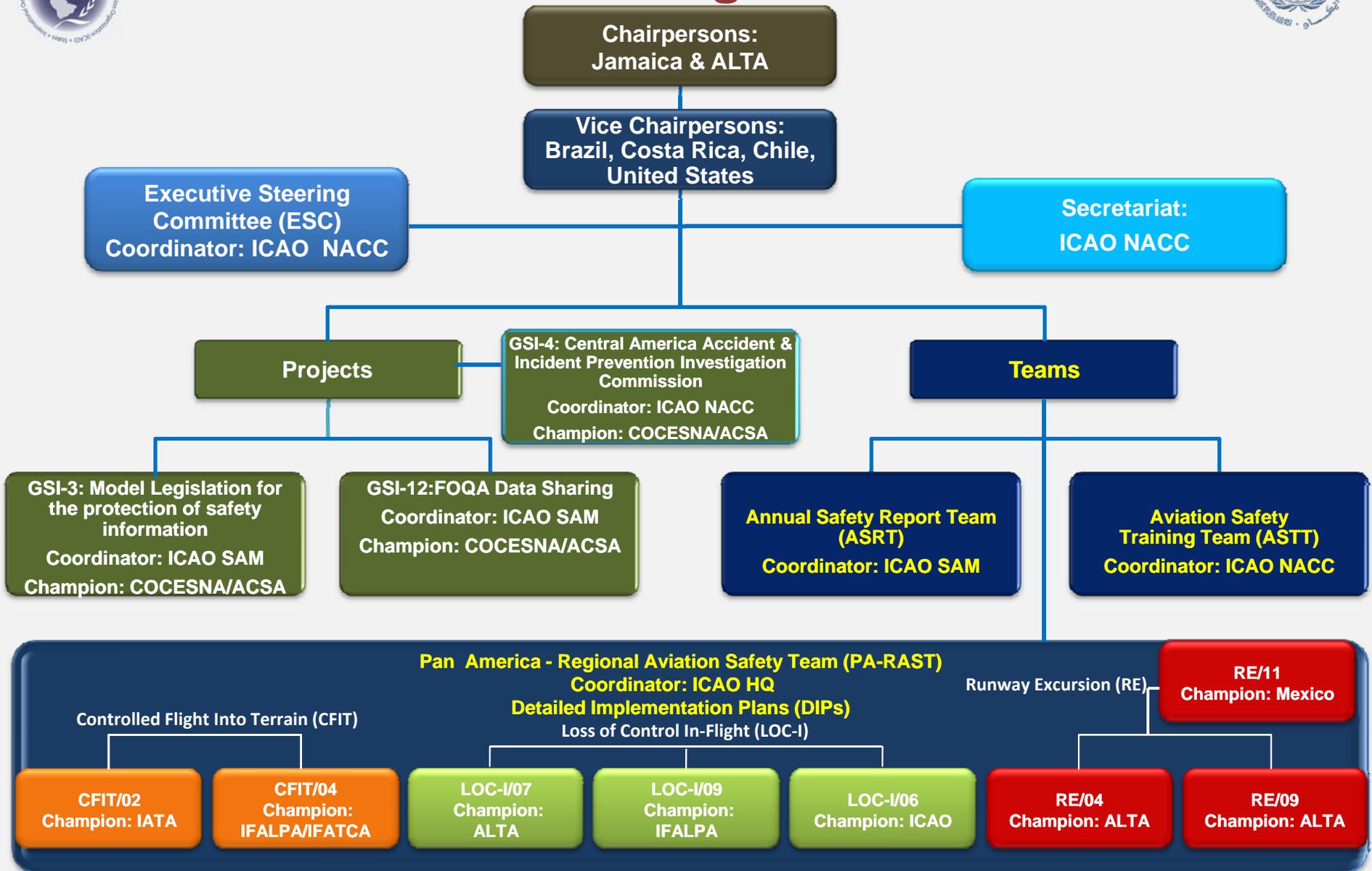
PA-RAST Safety Enhancement Initiatives Methology

Impact-changeability (IC) Level Chart Global Aviation Safety Roadmap (GASR) – Step 6





RASG-PA Organization





RASG-PA Process

ASRT

RASG-PA

**ANNUAL SAFETY
REPORT**

**SAFETY
ENHANCEMENT
INITIATIVES**

**DETAILED
IMPLEMENTATION
PLANS**

PA-RAST

1st Pan American AVIATION SAFETY SUMMIT

Working together for a safer industry



- Attendees: more than 200
- Member States: 10
- Airlines: 30
- Companies: 50
- Declaration adopted to continue enhancing aviation safety

***1st Pan American Aviation Safety Summit
a success!***

April 19-23, 2010
Sao Paulo, Brazil

30-31/01/2012

3rd RASGPA Aviation Safety Workshop, Mexico
in partnership with **ALTA**



2nd PAN AMERICAN AVIATION SAFETY SUMMIT 2011

June 15-17 Mexico City

Working together for a safer industry

in partnership with ALTA 



- Attendees: more than 250
- ICAO Member States: 32
- Airlines: 25
- Companies: 50
- Declaration adopted to continue enhancing aviation safety

***2nd Pan American Aviation Safety Summit
Fosters Strong, Regional Commitment!***



PA-RAST Regional Aviation Safety Team

Safety Enhancement Initiatives:

- **Runway Excursions (RE)** promote:
 - Pilot adherence to Standard Operating Procedures (SOPs) for approach procedures including the go-around decision making process
 - Specific training for pilots and air traffic controllers to avoid unstable approaches
 - Specific training for aerodrome personnel regarding maintenance and operations of the runway
 - Implementation of Runway Safety Teams (RSTs)



PA-RAST Regional Aviation Safety Team

Safety Enhancement Initiatives:

- **Controlled Flight into Terrain (CFIT)**
promote:
 - Specific Approach and Landing Accident Reduction (ALAR/CFIT) training for pilots
 - Crew Resource Management (CRM) / Situational Awareness training for pilots and air traffic controllers



PA-RAST Regional Aviation Safety Team

Safety Enhancement Initiatives:

- **Loss of Control In-Flight (LOC-I)** promote:
 - LOC training: advanced maneuvers
 - LOC training: pilot monitoring policies and procedures for the operator and training program for flight crews



ASTT - Aviation Safety Training Team

- Compile aviation safety training material for the data driven risk areas to be available on RASG-PA website
- Encourage RASG-PA members to provide aviation safety training material as in-kind support to RASG-PA
- Deliver RASG-PA Aviation Safety Workshops



Dedicated Website

www.mexico.icao.int/RASGPA.html



Safety Newsletters



Regional Aviation Safety Group - Pan America

RASG-PA Newsletter

A publication of the International Civil Aviation Organization
North American, Central American and Caribbean Regional Office (NACC)
South American Regional Office (SAM)
With support from RASG-PA Members



Issue 2

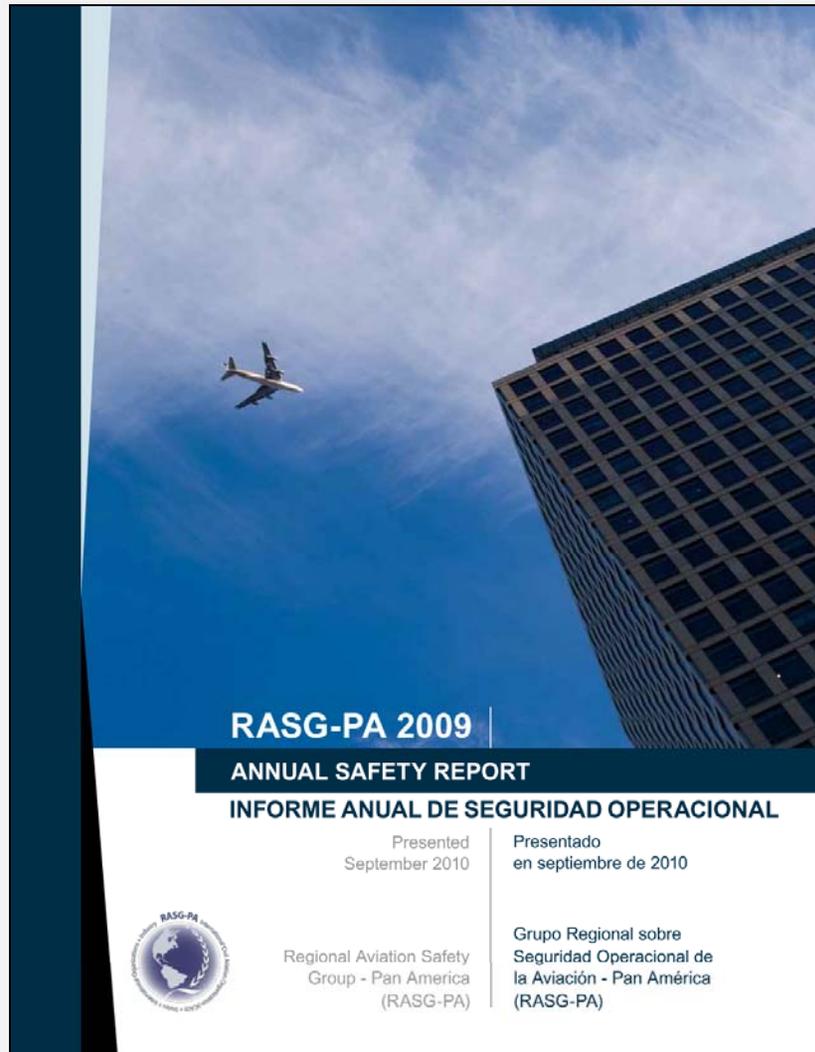
January 2011

Cooperation and Participation: Key to Successful Third Annual RASG-PA Meeting, Punta Cana, Dominican Republic

The Third Meeting of the Regional Aviation Safety Group - Pan America (RASG-PA/3) was held at the Moon Palace Hotel, Punta Cana, Dominican Republic, from 27 to 29 October 2010, hosted by the Civil Aviation Authority of Dominican Republic. The meeting was attended by 52 delegates from 14 States/Territories of the NAM/CAR/SAM Regions, 6 international organizations, 3 regional safety oversight organizations (RSOO), and 2 aircraft manufacturers.



Annual Safety Report Pan America 2009



- Bilingual (English and Spanish)
- Unique in the Region
- Reference document

Annual Safety Report Pan America 2010



- Bilingual (English and Spanish)
- Unique in the Region
- Reference document

Model Legislation for the Protection of Safety Information

2009

Proposal of amendment to the aeronautical legislation in order to protect safety information sources



Regional Aviation Safety Group-
Pan-American (RASG-PA)
Project GSI # 3.A
10/16/2009

- First in the World
- Circulated with ICAO State Letter in 2009
- Second version 2010 under revision
- Bilingual (English and Spanish)

Next RASG-PA Activities in 2012

- RASG-PA Aviation Safety Workshop
 - Mexico, Suriname, Colombia, Caribbean, Venezuela
- 3rd PA Aviation Safety Summit
 - Colombia
- RASG-PA/04
 - Chile





2001-2010 Pan America Regional Safety Summary



- Top fatal accident categories are:
 - Loss of Control In-flight (LOC-I),
 - Runway Excursions (RE)
 - Controlled Flight into Terrain (CFIT)
- LOC-I & CFIT appear to have a decreasing trend
- System-component failure/malfunction (non-powerplant) (SCF-NP) and unknown (UNK) occurrences are emerging types of accidents/incidents
- SCF-NP occurrences show an increasing trend since 2005 usually not leading to fatal accidents
- Aircraft malfunction and maintenance events were noted threats identified among the top contributing factors for Pan American accidents in 2010



RASG-PA Future

- Need for financial and in-kind support
- Participation of high-level representatives at meetings and supporting projects
- Exchanging information, experiences and tools among members
- Strategic aviation safety forum for Pan America
- Maintaining contact with similar organizations worldwide



Safety enhancement in civil aviation is everyone's responsibility...

...Be part of the Team!





For información

Contact: echacin@icao.int

Visit: www.mexico.icao.int

www.mexico.icao.int/RASGPA.html

Thank You!