



# PA-RAST

## Report to ESC – May 2021

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# Pan-American Regional Aviation Safety Team

## ▶ Roles:

- ▶ Promote a collaborative safety analysis framework, through a data driven approach;
- ▶ Develop safety enhancement initiatives, with corresponding detailed implementation plans;
- ▶ Promote the development of Collaborative Safety Teams – State-level bodies of government-industry collaboration for safety.

## In summary:

- ▶ Provide assistance in the reduction of the fatality risk through:
  - ▶ Identification of Safety Enhancement Opportunities (aka “hot-spots”)
  - ▶ ESC Decision-making process – implementation priorities and use of resources
  - ▶ [Drafting of] RASG-PA Safety Advisories – Alerts and Recommended Actions

# Consolidated Working Plan

The High-Risk Categories (HRC) projects:

- ▶ Controlled Flight Into Terrain (CFIT) – Continued with 1 project
- ▶ Loss of Control In-Flight (LOC-I) – Continued with 2 projects
- ▶ Mid Air Collision (MAC) – Continued with 2 projects
- ▶ Runway Excursion (RE) – Continued with 2 projects
- ▶ Runway Incursion (RI) – Suspended until 2021

**+ Precursors  
Data Monitoring**

The Additional Risk Categories (ARC) projects:

- ▶ Post Go-Around Outcomes (LOC-I) – Suspended until 2021
- ▶ Aircraft Misconfigurations (LOC-I, RE) – Suspended until 2021
- ▶ Surface Misalignments (NAV, RI) – Suspended until 2021
- ▶ Severe Weather (TURB, WSTRW, RE, LOC-I) – Suspended until 2021

# Data

## Reactive – CICTT Taxonomy

- ▶ Accidents and Serious Incidents
- ▶ Incidents and other reported occurrences

## Proactive / Precursors – Collective / Unidentified

- ▶ Safety Enhancements (CSTs)
  - ▶ Unstable Approaches
  - ▶ TCAS-RA
  - ▶ Undesired States
  - ▶ EGPWS/TAWS
  - ▶ Other sources (voluntary reports, State-level programs, etc.)
- ▶ Safety assessments
  - ▶ Risk analysis (CAAs, CSTs, etc.) – Safety Enhancement Plans, Safety Bulletins, etc.

# Current Working Plan - Deliverables

## Full list of expected / planned deliverables

- ▶ MAC-01 – Hot Spots Validation Protocol (Internal Document)
  - ▶ In progress
- ▶ MAC-02 – Findings on MAC Precursor Scenarios (RASG-PA Safety Advisory – RSA)
  - ▶ Begins after PA-RAST/GTE Integration (Implementation of MAC-01)
- ▶ CFIT-01 – Recommendations on TAWS Database Update Schedule (RSA)
  - ▶ Based on BCAST findings (during CAST SE 184 and SE 185 implementation analysis)
- ▶ LOC-I-01 – Pan-American Safety Webinar/Panel – LOC-I (Collab. / Promotion)
- ▶ LOC-I-02 – Review of past RSAs (RSA)
- ▶ RE-01 – Pan-American Safety Webinar/Panel – RE (Collab. / Promotion)
- ▶ RE-02 – Landing performance versus touchdown zone on certain runways (RSA)
  - ▶ BCAST ongoing project – likely common scenario in the PA Region

# Other expected results for 2021

- ▶ Updated RASG-PA Safety Advisories:
  - ▶ LOC-I: Updated Awareness Guidance Material
  - ▶ RSA-006 – Industry Recovery from COVID-19 Pandemic
- ▶ PA-RAST and GTE Integration
  - ▶ MAC Hot-Spots validation – TCAS-RAs and ANS crosscheck
  - ▶ Formal protocol for safety information exchange
- ▶ Continued Promotion for CST formal establishments in the region
  - ▶ RASG-PA Safety Promotion Webinar Series
- ▶ Enhancements to the RASG-PA Decision-Making Process

# Note about CSTs

- ▶ Current RASG-PA participating organizations
  - ▶ States, Industry, CSTs, International Organizations
  - ▶ Are there gaps to be fulfilled?
- ▶ Collaborative Safety Teams are directly derived from the SSP implementation – integral part of Safety Risk Management
  - ▶ ICAO ROs (NACC and SAM) support
  - ▶ PA-RAST collaboration → RASG-PA effective participation (CAST, BCAST, ACSA, GNASO, and the list is growing)
- ▶ ESC guidance on new strategies for CST promotion is paramount not only to overcome the difficulties of the pandemic (that limited the “in place” meetings) but also to enhance the effectiveness of the CST promotional efforts of the RASG-PA.
  - ▶ Balancing Industry call for action and Government regulatory framework
  - ▶ Examples: PA-RAST implementation functions, SSP Implementation Status, etc.



Gracias!  
Thank you!  
Obrigado!