



**Nineteenth Meeting of the CAR/SAM Regional Planning and Implementation Group
 (GREPECAS/19)
 Online, 27 – 29 October 2021**

Agenda Item 4: Global and Interregional Activities

ACTIVITIES CARRIED OUT BY BRAZIL TO IMPROVE NOTAM

(Presented by Brazil)

EXECUTIVE SUMMARY	
<p>This Information Paper presents the activities carried out by Brazil for the global ICAO NOTAM improvement campaign. Since the work began in Brazil, in January 2020, the total number of NOTAMs in force has decreased by more than 40%, as well as the percentage of NOTAMs older than 90 days has gone from more than 55% to less of 15%, with a goal that Brazil no longer have NOTAMs with more than 90 days of validity as of March 2022.</p>	
<i>Strategic Objectives:</i>	<ul style="list-style-type: none"> • Safety • Air Navigation Capacity and Efficiency
<i>References:</i>	<ul style="list-style-type: none"> • SAM/AIM/13 final report • ICAO Annex 15 • GREPECAS/18 Meeting Report • Doc 8126

1. Introduction

1.1 On 8 April 2021, ICAO launched a global campaign to improve the quality of NOTAM information, in particular, the elimination of old NOTAMs, those older than 90 days.

1.2 According to ICAO, there are approximately 35,000 active NOTAMs and, in 2020, more than 1.7 million NOTAMs were issued. The analyzes carried out show that 20% of these exceed the maximum period described in Annex 15 - Aeronautical Information Services.

1.3 In Brazil, specific work to improve the quality of NOTAMs began in January 2020, at the Aeronautical Cartography Institute (ICA), through internal restructuring actions, process improvement, and personnel training.

1.4 Since the beginning of this work, the total number of NOTAMs in force has decreased by more than 40%, as well as the percentage of NOTAMs older than 90 days has gone from more than 55% to less than 15%, with a goal that Brazil no longer have NOTAMs with more than 90 days of validity as of March 2022.

2. Discussion

2.1 The Aeronautical Cartography Institute (ICA), subordinate to the Airspace Control Department (DECEA), is the office responsible, in Brazil, for aeronautical cartography, design of air navigation procedures, airspace conception and provision of aeronautical information.

2.2 Among the products provided by ICA we can list: visual charts (WAC, PDC, ADC, VAC), instrument procedure charts (SID, STAR, IAC), route charts, AIP, AIP Supplement and NOTAM.

2.3 These products are available free of charge through the website www.aisweb.decea.mil.br, FPL EFB BR application (available for tablets with IOS or ANDROID operating systems), or also through API (Application Programming Interface) on the website.

2.4 In addition to its work in Brazil, ICA has also provided support to some South American countries in the development of instrument procedures.

2.5 Currently in Brazil, covering the 5 Flight Information Regions (FIR) and 4472 aerodromes, there are 2803 published charts, 236 AIP supplements and 1454 NOTAMs in force.

2.6 Around 1500 NOTAMs are generated monthly (including the cancellation NOTAM) in ICA.

2.7 As of January 2020, the work of eliminating NOTAM older than 90 days began, especially permanent NOTAMs sustained by the difficulty of incorporating information in publications and permanent products such as AIP and charts.

2.8 To work on this difficulty, a planning and control sector was created, which began to carry out integration work between the cartography, procedure development and aeronautical information management sectors.

2.9 Based on the analysis of the current permanent NOTAMs, work packages were created to incorporate these NOTAMs in publications and charts with coordination between the different sectors, taking into account the defined AIRAC date for the entry into force of the corresponding products.

2.10 In addition, procedure design capacity was expanded through staff training and the creation of a procedure design assistant job. The number of charts published went from 285 in 2019 to 634 in 2020 and 1,481 by December 2021 (Fig. 1).

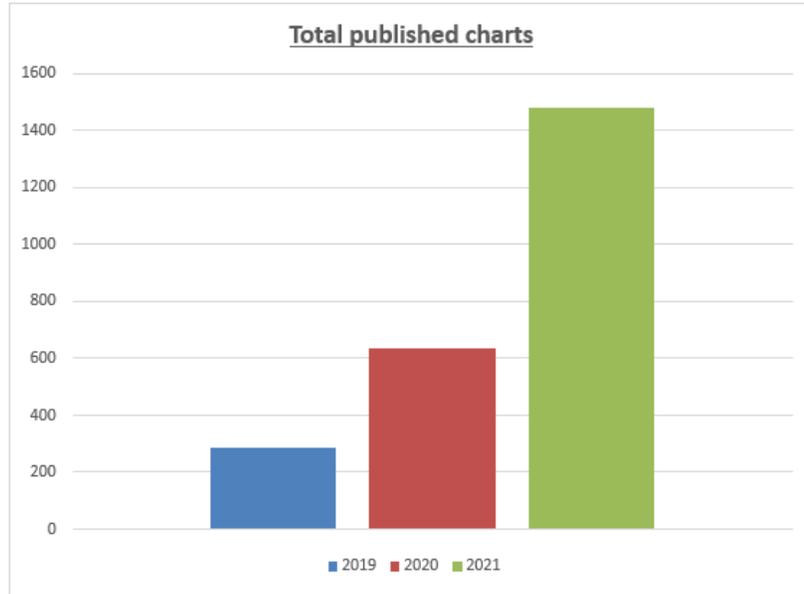


Fig. 1 – Total charts published by ICA annually

2.11 These actions allowed both a decrease in the total number of NOTAMs in force (Fig. 2) and a reduction in the number of NOTAMs with more than 90 days (Fig. 3).

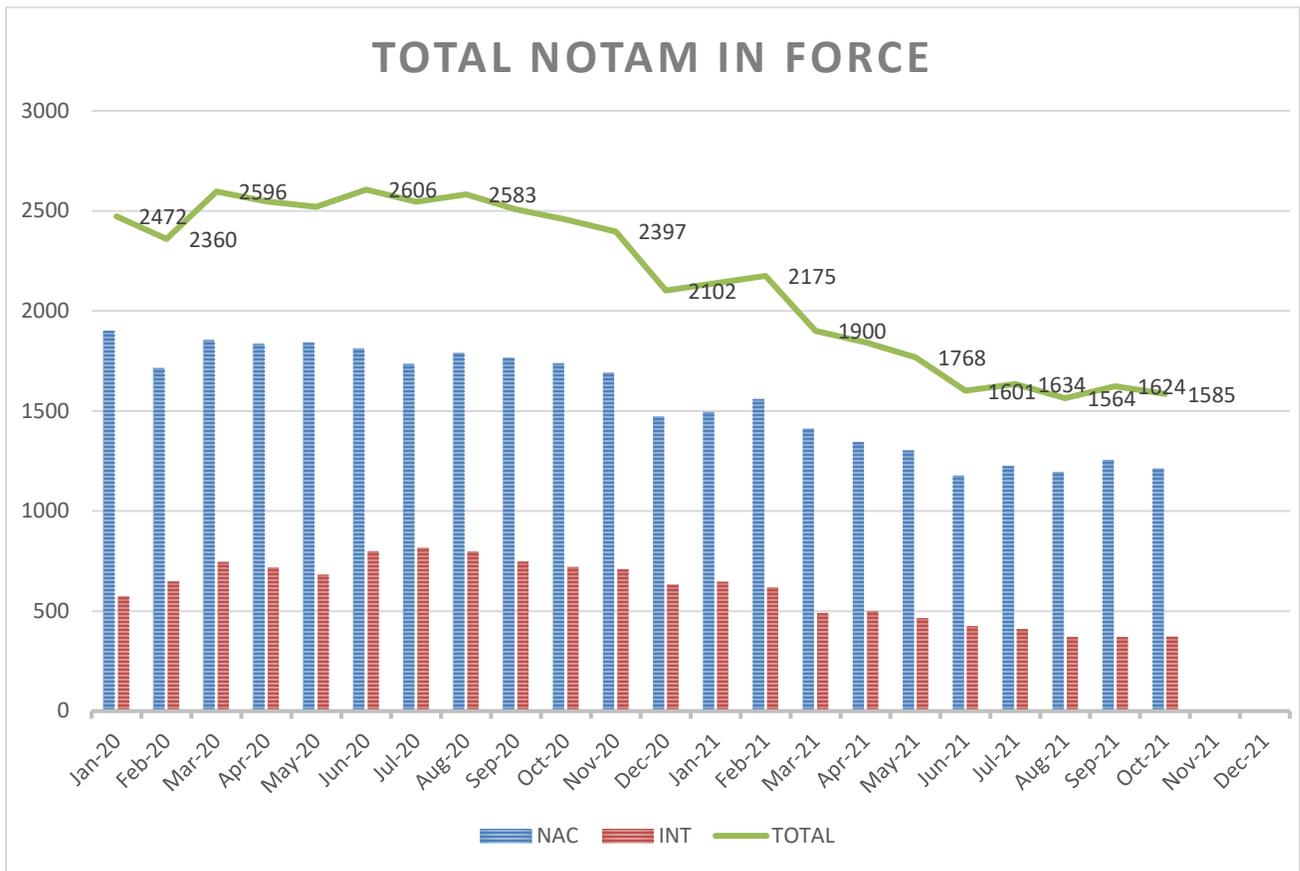


Fig. 2 – Total NOTAM in force

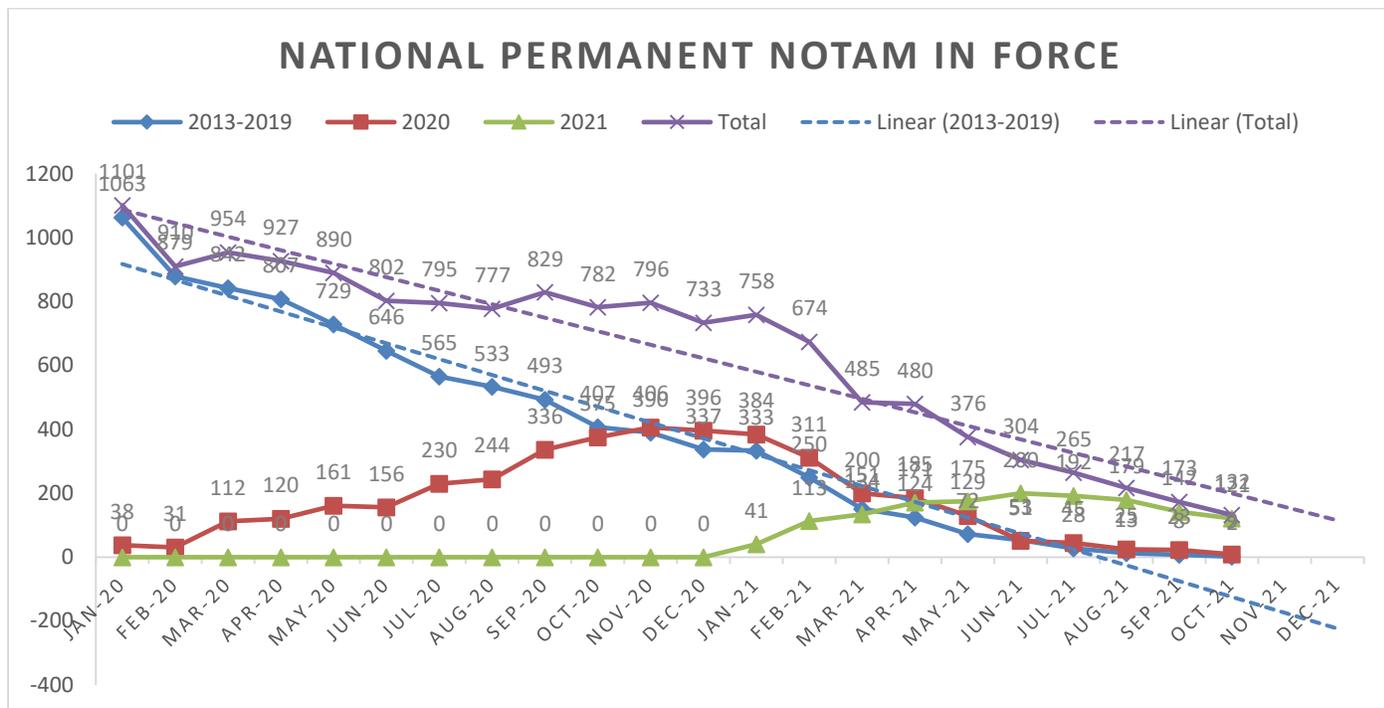


Fig. 3 – Permanent NOTAM in force since January 2020

2.12 In addition to efforts to improve processes, internal restructuring and training of personnel, work is also being done on modernizing the aeronautical information database and integrating it with tools for the procedures design and route charts, which will increase production capacity and, consequently, allow the incorporation of information into permanent products faster.

2.13 Currently, the number of NOTAMs with more than 90 days in Brazil is 119 National and 50 International, which represents 15% of the NOTAM in force.

2.14 The planning was made so that, by March 2022, there will no longer be NOTAMs in force in Brazil with more than 90 days of validity.