



Agenda Item 2: **Large Height Deviation (LHD) Analysis**
b) Presentation of the most recent statistical data

Presentation of Statistical Data on the Most Recent LHDs Received by CARSAMMA

(Presented by CARSAMMA)

Summary	
This paper presents a summary of the most recent statistical data on large height deviations (LHDs) reported to CARSAMMA in 2010, associated to the SMS methodology advocated by ICAO.	
References	
<ul style="list-style-type: none">• ICAO SMS Manual• Report of large height deviations (LHDs) in 2010	
ICAO Strategic Objectives:	A - Safety

1. Background

1.1. CARSAMMA used the SMS methodology to analyse the 879 LHDs received in 2010, accounting for 892 codes, 646 of which were validated.

2. Context

2.1. Applying the previous methodology to analyse the 879 LHDs received, the GTE10 validated 466 LHDs, generating 479 codes and discarding 413 LHDs. Using the new SMS methodology to analyse the same 879 LHDs (892 codes), the 646 codes were validated, analysed, and only 243 were deleted.

3. Discussion

3.1. Most LHDs deleted with the previous methodology (167) had reasons for discarding the existence of radar coverage around neighbouring points. CARSAMMA considers that, even with radar coverage, the issue existed (code M and N) and gave rise to a risk that must be measured and mitigated. This is taken into account in the analysis of the mathematical expression contained in the new methodology.

4. Summary and conclusions

4.1. Of the 167 LHDs that would be discarded with the previous methodology, 35 had a risk value of no less than 25 points, 3 LHDs reached a maximum value of 40 points, confirming the need for mitigation measures in these cases.

5. Suggested action

5.1. The Meeting is invited to:

- a) take note of the information contained in this working paper, and States wishing to do so may use it as a reference for mitigating their LHDs; and
- b) submit that decision to the members of the GTE for their knowledge and approval.

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