



- Agenda Item 3: Mitigating actions to ensure the target level of safety (TLS)**  
b) Identification of air navigation risks based on recurrent LHD reports

**Presentation of Recurrent Items Reported in the LHDs Received by CARSAMMA and their Impact on Air Navigation**

(Presented by CARSAMMA)

<b>Summary</b>	
This paper presents a summary of the items most frequently identified in large height deviation (LHD) reports received by CARSAMMA in 2009, 2010 and 2011.	
<b>References</b>	
• Report of large height deviations (LHD) in 2009, 2010 and 2011.	
<b>ICAO Strategic Objectives:</b>	A - Safety

**1. Background**

1.1. The purpose of this working paper presented by CARSAMMA is to identify the items most frequently mentioned in LHD reports submitted in 2009, 2010 and the first half of 2011.

**2. Discussion**

2.1. The methodology applied in this working paper has been to first separate LHDs by semester (first and second), and to take into account only those items appearing 5 times or more in each period.

2.2. Since approximately 90% of the reports are related to codes "M" and "N", items were not classified by code.

2.3. Since the main interest of CARSAMMA is safety in the CAR/SAM Regions, and given the confidential nature of the information contained in LHD reports, the names of the most frequently reported items were replaced by letters of the alphabet, as shown in Table 1 of **Appendix A** to this working paper.

**3. Suggested action**

3.1. The Meeting is invited to:

- a) take note of the information contained in this working paper; and
- b) convey to States the importance of addressing LHD occurrences in order to mitigate risks in CAR/SAM airspace.

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## APPENDIX A

**TABLE 1 – ITEMS MOST FREQUENTLY REPORTED IN CAR/SAM REGIONS**

ITEMS	SEM1_2009	SEM2_2009	SEM1_2010	SEM2_2010	SEM1_2011	OBS
A	+	+	+	+	+	121
B	+	+	+	+	+	67
C	-	+	+	+	-	40
D	-	+	+	+	+	40
E	+	+	-	+	-	38
F	+	+	-	-	-	37
G	-	-	+	+	+	35
H	+	+	+	+	+	34
I	+	+	+	-	-	30
J	-	-	+	+	+	28
K	-	+	-	-	+	28
L	+	+	-	-	-	27
M	+	-	-	+	-	26
N	-	+	+	-	-	25
O	-	-	+	-	+	24
P	+	-	-	-	-	22
Q	-	-	-	-	+	21
R	-	+	+	-	-	19
S	-	-	-	-	+	18
T	+	+	-	-	-	17
U	-	-	-	+	-	15
V	-	+	-	-	-	14
W	+	-	-	-	-	13
X	-	-	-	-	+	13
Y	-	+	-	-	-	11
Z	+	-	-	-	-	10

Legend:

+ SIGN MEANS THAT THE ITEM APPEARS 5 TIMES OR MORE

- SIGN MEANS THAT THE ITEM APPEARS 4 TIMES OR LESS

OBS = TOTAL REPORTS IN 5 SEMESTERS - 2009, 2010 and 2011