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| From: ENAV | ENG6-10.38  Formerly ENAV20-14.1.27 |
| To: ENG | 17 March 2017 |

Liaison Note

Application of AIS/VHF in hot and humid climates

# Introduction

The ENG committee liaison provided data showing AIS performance in extreme heat and humid conditions asking that ENAV provide any additional information on VHF propagation in different climate conditions, for possible inclusion in the Draft Guideline on Providing Aton Services in Extremely Hot and Humid Climates.

# Discussion

The Committee found this very interesting with many questions on how the measurements were taken as the results are not consistent with known AIS performance. Unfortunately, the ENAV Committee does not have additional data to supply to the ENG committee on extreme conditions.

However, the ENG committee should note that the VDES system should be able to compensate for extreme conditions by providing flexibility through adaptive coding and modulations, adaptive service areas, and a freewheeling receiver capability.

# Action requested

The ENG Committee is requested to continue to supply additional extreme data as it becomes available as this could be material to the design of VDES.