**Input paper: [[1]](#footnote-1)** ENG17-3.1.1.2

**Input paper for the following Committee(s):** **Purpose of paper:**

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ARM  ENG  PAP  Input

ENAV VTS  Information

**Agenda item** [[2]](#footnote-2) n.n

**Technical domain/ Task number** 2 Guideline 1066 Swinging Radius

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G1066 FORMULA CORRECTION[[3]](#footnote-3)

# Summary

## Purpose of the document

This input paper has the purpose of informing about an error on Guideline 1066 and explaining the expected amendment to the related formula.

## Related documents

G1066 The Design of Floating Aid To Navigation Moorings, Edition 1.2 May 2009.

# Background

The aforementioned Guideline gives the AtoN authority the recommendations and guidelines to design and calculate floating mooring system composition and performance. One of the performance parameters calculated is the swinging radius. An inconsistency in the transitional mooring swinging radius formula (Equation 7, page 15, section 3.3.1.1.5) has been detected between old and new issues of the Guideline.

This modification is not reflected in the “Document Revision” notes.

The formula in the most recent issue is wrong and gives clearly incorrect results, this is probably due to a transcription error.

# Discussion

The new formula included in the latest issue is shown on the following figure:

Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

Descripción generada automáticamente

1. New “wrong” formula.

The new formula gives clearly incorrect results (a swinging radius of hundreds of kilometres for usual mooring values).

The corrected formula (showed in Guidelines prior to the new format issue) should be the following:

**Diagrama

Descripción generada automáticamente**

# Action requested of the Committee

The Committee is requested to:

1. Review the proposal of amendment.
2. Approve the proposal.
3. Include the modifications in the next issue.

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-1)
2. Leave open if uncertain [↑](#footnote-ref-2)
3. Footer will automatically populate [↑](#footnote-ref-3)