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Corrosion of metals and alloys — Corrosivity of atmospheres — Mapping areas of increased risk of corrosion

Corrosion des métaux et alliages — Corrosivité des atmosphères — Cartographie des zones présentant un risque accru de corrosion

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Foreword

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This document was prepared by Technical Committee ISO/TC 156, *Corrosion of metals and alloys*.

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Introduction

Corrosion maps have become more frequent, and to ensure transparency and ease of comparison of corrosion maps, this work was initiated.

This document describes procedures for calculating corrosivity maps based on arrays of environmental data organised in a grid and using a dose-response function. Corrosivity maps based on dose-response functions can be very useful for illustrating geographical variations, trends in time and the relative importance of different underlying parameters (climate, pollution) and to communicate these results to those not working in the field of corrosion. The result for an individual grid cell of a corrosivity map is, however, very uncertain. If a corrosivity assessment for a single location is needed, it is recommended to also consider direct measurements of corrosion according to ISO 9223.