

# Object 26. A Guarda Escrita Nas Estrelas-Nuvi&Éxfico-A Guarda 2018

## Deterioration monitoring for 2 years (2018-2020)

The mural was painted in October 2018. The evolution of existing forms of alteration and the formation of new pathologies over 2 years ago was assessed during two visits (December 2019 and January 2021).

**STRUCTURE OF THE BREAKWATER :** 4 modules, one semicircular (S1, with a traffic light), all made of reinforced concrete of variable roughness. After a big storm (2017), the second module (S2) was partially reconstructed with a smoother concrete.

The intensity of the degradation forms is expressed by an \*

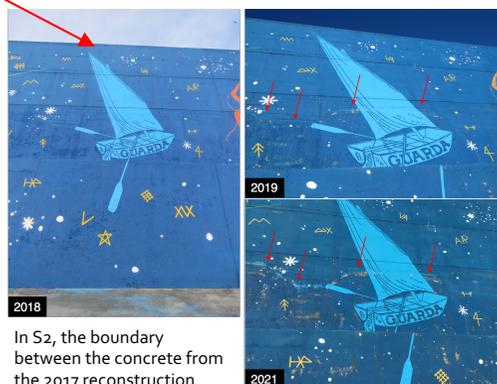


DETERIORATION FORM	2018	2019	2020
CaCO <sub>3</sub> concretion	*	*	**
Peeling (delamination)		**	**** – different depending the substrate and the paint
Corrosion	*	*	*
Figures and fractures	*	*	*
Fading and color alteration		*	*** – different depending the paint
Black patina		*	***



**Black patina**, sometimes greenish-brown, it is distributed following runoff lines that start from the steps, where water and organic matter (macroalgae) accumulate.

It is extremely hard, is highly integrated into the substrate and completely covers the pictorial layer.



In S2, the boundary between the concrete from the 2017 reconstruction and the old concrete (red arrows) is affected by CaCO<sub>3</sub> concretions (suggesting water infiltration). In the newer, smoother concrete, the paint is better preserved than in the old, rougher concrete, where the **delamination** is much more intense.



Orange and pink figures are affected by **fading** (which occurred after 1 year, whereas blue base paint suffers a **Hue Variation**). These paints are also the most affected by delamination process.

**Delamination** (loss of the pictorial layer that comes off the substrate) is, together with **black patina** and **colour changes**, the main form of alteration of the mural. It especially affects blue base paint, spray orange and spray blue paints. The areas painted yellow and green are not affected by this alteration and are much more resistant.



The **color deterioration** of the base blue paint is very clear in these images: a color protector was applied in the area of the square in 2018. In 2021, the unprotected blue paint lost its color whereas the protected area remained unaltered. Note the intense **delamination** affecting blue base paint.

This document was produced within the project ***Conservation of Art in Public Spaces (CAPuS)***.

Authors:

Teresa Rivas Brea, Enrique Alonso Villar, Santiago Pozo  
Antonio- UNIVERSIDADE DE VIGO (SPAIN)



Education, Audiovisual and  
Culture Executive Agency  
Erasmus+: Higher Education-Knowledge  
Alliances, Bologna Support, Jean Monnet

CAPuS project has received funding from the  
European Commission, Programme Erasmus+  
Knowledge Alliances 2017, Project N°  
588082-EPP-A-2017-1-IT-EPPKA2-KA

The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.