

**Paper for Consideration by ENCWG****Inclusion of encoding guidance for Bird Nesting Structures in the S-57 UOC**

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| <b>Submitted by:</b>      | UK Hydrographic Office   |
| <b>Executive Summary:</b> | Inclusion of encoding guidance for bird nesting structures (roosting platforms) within the S-57 UOC. |
| <b>Related Documents:</b> |  |
| <b>Related Projects:</b>  | S-101  |

**Introduction / Background:**

This year the UK Offshore Wind Industry has started installing artificial nesting structures which are features that don't currently exist within the current S-57 UOC. Whilst these features are extremely rare in the UK they could become more prevalent in the near future and across other areas of the world. Currently the UKHO is unsure of any standardised encoding guidance and is unsure how these should be captured.

**Analysis / Discussion:**

- Due to their rarity and unknown encoding the UKHO is unsure how prevalent these features are in other areas of the world and how other HOs have encoded these.
- These relatively large features could be mistaken for mooring structures from a distance.
- These could potentially also be mapped to S-101 as a new feature.

**Conclusions:**

- Lack of encoding guidance and not knowing how many of these features exist worldwide is a problem for hydrographic offices.

**Recommendations:**

- Encoding guidance is provided in the S-57 UOC for this new feature for HOs to follow.

**Justification and Impacts:**

- Currently I would expect HOs are all following their own encoding principles and if these structures exist worldwide, it would be good to have an encoding standard. By adding these as new features it will prevent all chance of possible confusion for these features being mistaken for mooring structures from afar.

**Action required of ENCWG:**

The ENCWG is invited to:

- a. Note this paper and ongoing discussion.
- b. Explore and discuss whether these exist in other areas of the world and how are they captured.
- c. Consider adding encoding guidance to the S-57 UOC and ensure it exists for S-101.

### Bird Nesting structure.



Red7Marine has recently completed the installation of three nearshore artificial nesting structures

### Currently how the UKHO has encoded bird nesting structures.

[Pile: Bird roosting platform](#) ...  
53°42'860N 0°19'780W WGS84

[Light](#) ...  
[Fl\(2\) R 10s](#)



[Topmark](#) (viewing group is hidden) ...  
[red, cylinder \(can\)](#)



ENC Approach  
Cell GB40344B

Compilation scale 1:22,000

540 0006115039 00001 Pile

Object class: PILPNT Pile

OBJNAM (Object name) = Bird roosting platform

Slave 1 is 540 0006115062 00001 Point Topmark

Slave 2 is 540 0006115049 00001 Point Light