

IALA Recommendation O-116

On

The Marking of Aquaculture Farms

Edition 2

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Document Revisions

Revisions to the IALA Document are to be noted in the table prior to the issue of a revised document.

Date	Page / Section Revised	Requirement for Revision
April 2007	Entire Document	<u>Title and symbology altered</u> , to reflect the more widespread use of such farms

IALA Recommendation on the Marking of Aquaculture Farms

THE COUNCIL

RECOGNISING the increase in number and size of aquaculture farms being established and the potential danger posed to shipping,

RECOGNISING ALSO that it is a matter for a national authority to decide on whether an aquaculture farm needs to be marked, depending on the risk involved,

RECOGNISING FURTHER that marking is to improve the safety of navigation and protect the aquaculture farm itself,

HAVING CONSIDERED the proposals by the IALA ANM Committee,

1 RECOMMENDS

1. That when an aquaculture farm/s is considered to represent a danger to navigation, it should be marked in accordance with the IALA Maritime Buoyage System, using special marks, lateral or cardinal marks, or a combination thereof. The use of electronic AtoNs such as racons or AIS may also be considered. The farm (or group of farms) should be marked depending on their size, extent and location. In some cases, it may be sufficient to mark only part of the perimeter or the centre.

Administrations should bear in mind that the marking recommendations herein may be adjusted considering traffic density, proximity to ports, proximity to dangers, tidal considerations and other factors.

- 1.1 Aquaculture farms are normally marked by special marks.
- 1.2 If there is a requirement for vessel traffic between aquaculture farms, then such a channel should normally be marked with lateral marks.
- 1.3 If the prevailing situation warrants it, cardinal marking alone may be used to direct mariners away from the aquaculture farm.
- 1.4 To improve the effectiveness of the lighting, and taking into consideration background lighting, synchronisation of the various lights should be considered.
- 1.5 To improve the radar target and the visibility of the aquaculture farm, radar reflectors and reflective material should be considered.

Examples can be found in Section 2.

2 EXAMPLES

Note: *The marking denoted in the following examples is the minimum recommended marking arrangement with special marks*

Aquaculture farms can be various regular and irregular shapes and sizes but are usually:

- Rectangular or
- Circular

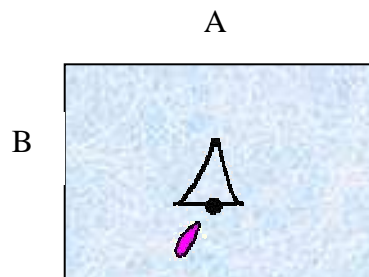
2.1 Rectangular aquaculture farms should be marked according to the length of the sides.

2.1.1 Example 1:

Size: side A and side B \leq 500 metres.

Minimum Marking Arrangement:

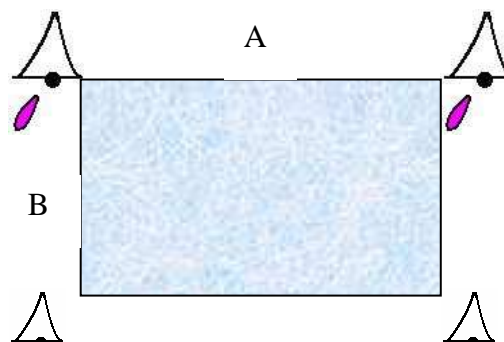
A light in the middle of the aquaculture farm.



2.1.2 Example 2a:

Size: side A (sea side and coast side) \leq 2500 metres
side B (lateral side) \leq 500 metres.

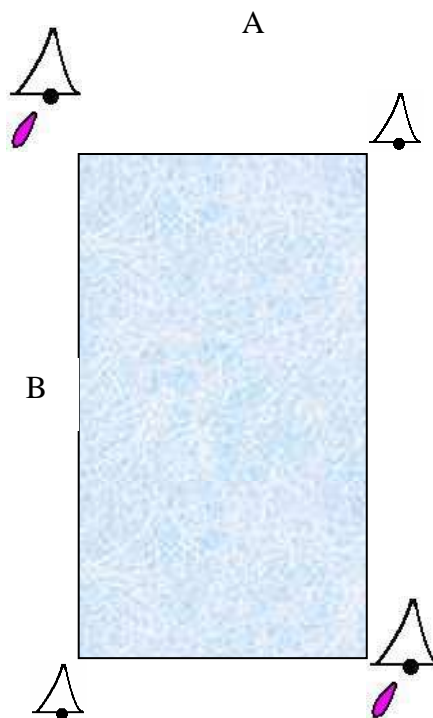
Minimum Marking Arrangement: A light on each sea corner and a daymark on each coast corner.



2.1.3 Example 2b:

Size: side A (sea side and coast side) \leq 500 metres
side B (lateral side) \leq 2500 metres.

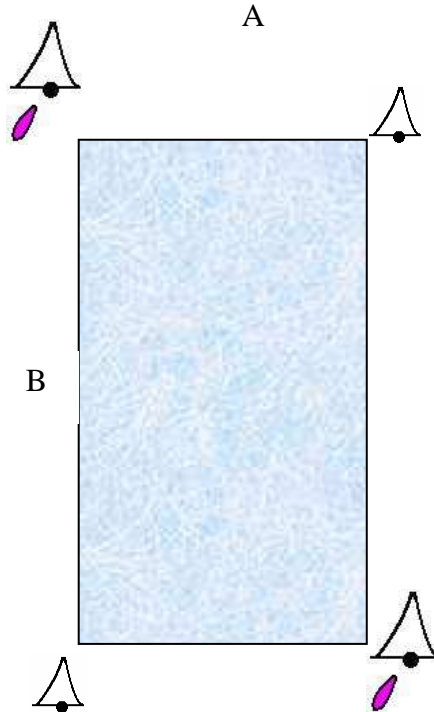
Minimum Marking Arrangement: A light on one of the sea corners, a light on the diagonally opposite coast corner and daymarks on the other two corners.



2.1.4 Example 3:

Size: side A and side B $>$ 500 and \leq 2500 metres
such as $A \times B \leq 2.250.000$ metres²

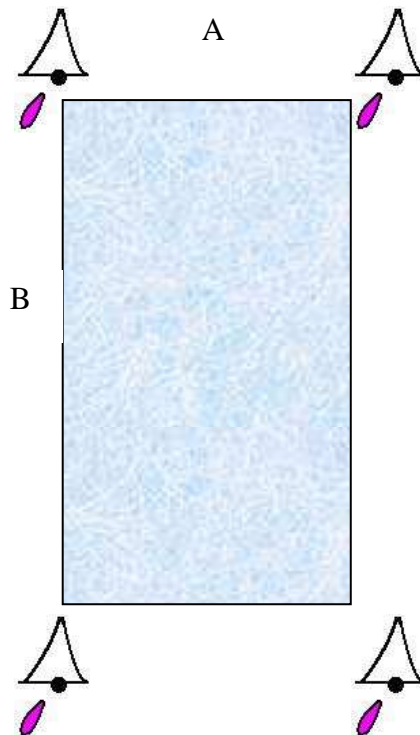
Minimum Marking Arrangement: Lights on diagonally opposite corners and daymarks on the other two corners.



2.1.5 Example 4:

Size: side A and side B > 900 and ≤ 2.500 metres
such as $A \times B > 2.250.000 \text{ metres}^2$ and $\leq 6.250.000 \text{ metres}^2$

Minimum Marking Arrangement: A light at each corner of the aquaculture farm.



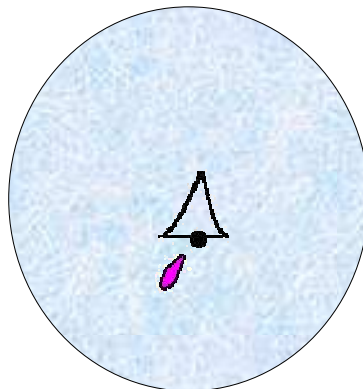
2.2 Circular aquaculture farms should be marked according to the length of their radius.

2.2.1 Type 1:

Size: radius \leq 250 metres.

Minimum Marking Arrangement:

A light in the centre of the aquaculture farm.

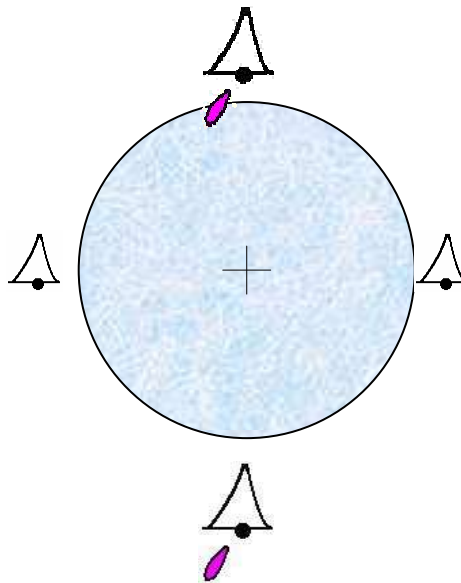


2.2.2 Type 2:

Size: radius > 250 and ≤ 1000 metres.

Minimum Marking Arrangement:

Two lights, 180 degrees apart on the circumference of the aquaculture farm and two daymarks on the circumference positioned 90 degrees to the lights.

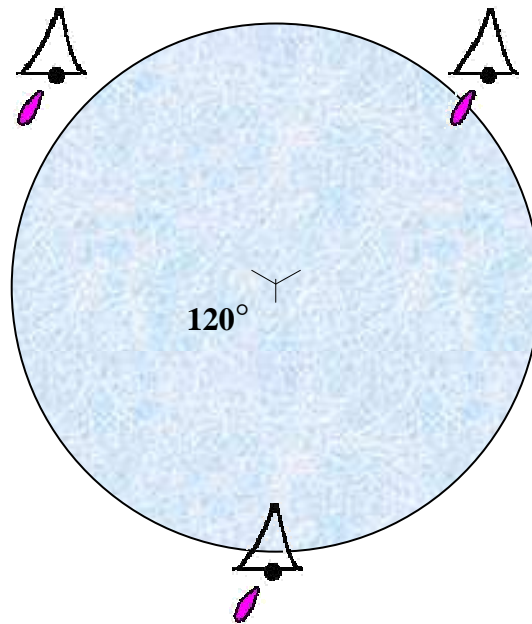


2.2.3 Type 3:

Size: radius > 1000 and ≤ 2000 metres.

Minimum Marking Arrangement:

Three lights, 120 degrees apart on the circumference of the aquaculture farm.



2.2.4 Type 4:

Size: radius > 2000 metres.

Minimum Marking Arrangement:

Three lights, 120 degrees apart on the circumference of the aquaculture farm and three daymarks on the circumference positioned 60 degrees to the lights.

