ANM19 Input paper

Agenda item 8

Author Norwegian Coastal Administration

Recommended revisions to Recommendation ITU-R M.1371-4 – Issues with Message 21: Aids-to-navigation report (AtoN)

# Summary

This paper invites a discussion on issues with Message 21: Aids-to-navigation report (AtoN), and

hereunder its suitability for the marking of aquaculture farms.

An example of a typical aquaculture farm where AIS AtoN could be used for marking is given.

## Purpose of the document

The Committee is expected to discuss issues with AIS Message 21 with the view to improve its usefulness, or look into alternative ways to mitigate the limitations of this message.

# Background

Aquaculture farming is an important industry on the Norwegian coast. There are (2011) about 990 “grew out” licences for Atlantic salmon, rainbow trout and trout, and about 470 licenses for other marine species.

Aquaculture farms represent a risk for ships / vessels and other craft and vice versa. This risk compromises a hazard for the safety of man, the environment and for material damage. It is foreseen a concentration in aquaculture farming that will lead to larger farms with more bio mass.

Further, there is some competition for space in the coastal waters between marine traffic and aquaculture farming. Marine traffic uses both the “non-regulated” coastal waters and an extensive system of fairways:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Number | Distance  Nautical miles (km) | Average distance  Nautical miles (km) |
| Main fairways | 213 | 3880 nm  (7186 km) | 18,2 nm (33,7 km) |
| Secondary fairways | 862 | 6620 nm (12260 km) | 7,7 nm (14,3 km) |

Aquaculture farms are in general located so as to minimize conflict with the fairways. This is done for example by choosing locations outside of “white sectors” from the lights. In Annex 1 there is an example of an aquaculture farm, where it is intended to locate an AIS AtoN in the “corner” of the farm nearest the marine traffic.

Racons and AIS AtoNs can according to the national regulations be used for the marking of aquaculture farms in addition to a conventional marking scheme. Use of racons is not discussed further here.

# Discussion Message 21: (Aids-to-navigation report (AtoN)

## TABLE 70 – Dimension / reference for position

The dimension / reference for the position parameter should be expanded so that it would be possible to portray the orientation and extension of an aquaculture farm on the navigational screens on board.

This could be similar to that for a ship (ref. FIGURE 4 in Rec. ITU-R M.1371-4), although this may be too limited. It should be possible to portray structures with an extent of more than 1 000 meter.

It may not always be practicable to locate the AIS AtoN on the “corner” of a farm. Further a protected location would probably be preferable.

## TABLE 70 – Name of Aids-to-navigation

AIS AtoNs should have a unique name (prefix and real name and eventual number) that is concise and easy to interpret, and that at the same time does not take unnecessary space on navigational screens onboard. For that the prefix and real name shall be part of the message normally 20 + 14 characters or more will be necessary.

### Aquaculture farms

In addition to the standard prefix, appropriate national real names and eventual numbers should be used.

Example: **SEA FARM Storvika 1325**

### Installations in the petroleum sector

In addition to the standard prefix, appropriate national real names and eventual numbers should be used.

Example: **PETROLEUM 2/12 Freja**

### Wind farm installations

In addition to the standard prefix, appropriate national real names and eventual numbers should be used.

Example: **WIND ENERGY Havsul I**

### Installations on the seafloor and anchored objects

As name on installations on the seafloor and anchored objects an appropriate name should be used which preferably also can be of help for identification of type of installation and object.

Example: **Obstn Dredger 03**

The prefix ‘Obstn’ is short for Obstructions in Chart 1.

# Action requested of the Committee

The Committee is requested to discuss the above with a view to find a way to adequately mark aquaculture farms by AIS AtoN, either by:

1. Amending Message 21, or
2. Investigate other options within the AIS system framework.
3. example of aquaculture farm where ais atoN is BEING considered



Note: AIS AtoN indicated with blue pencil mark.

\* \* \*