

ANCHORING AREA

WITH

RESTRICTIONS

V.0.1

10/10/17

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1 Introduction

The objective of this document is to raise a portrayal conflict on the anchorage area symbols instructions.

A S57 feature encoded as follows :

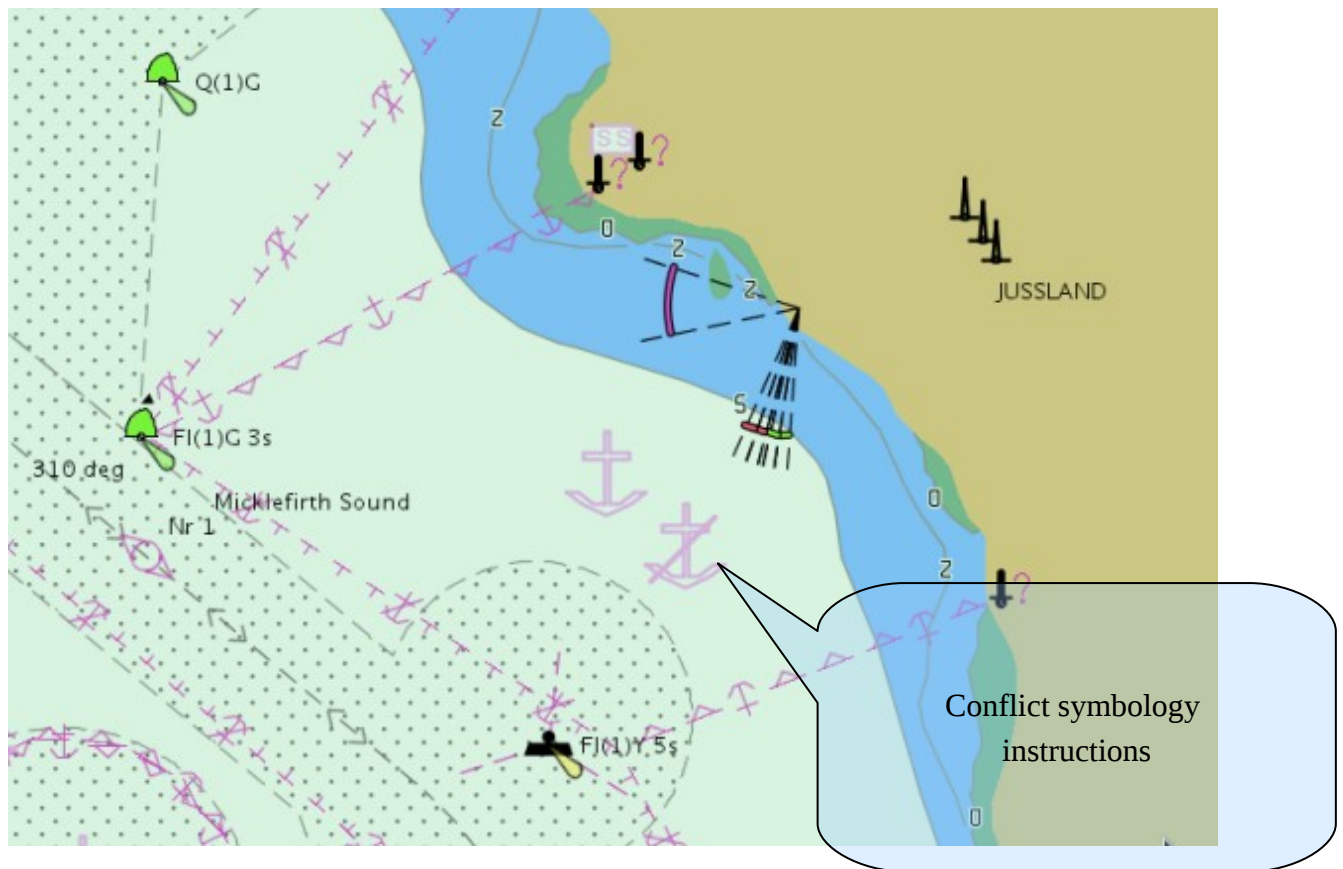
- OBJL : ACHARE
- PRIM : AREA
- ATTL/ATTV : RESTRN/Anchoring Restricted (2)

generates the following conflicts centred symbol instructions :

- SY(ACHARE51);



- SY(ACHRES51);



2 Existing Portrayal Rules

The lookup table “SYMBOLIZED BOUNDARIES” defines the following records for ACHARE feature types :

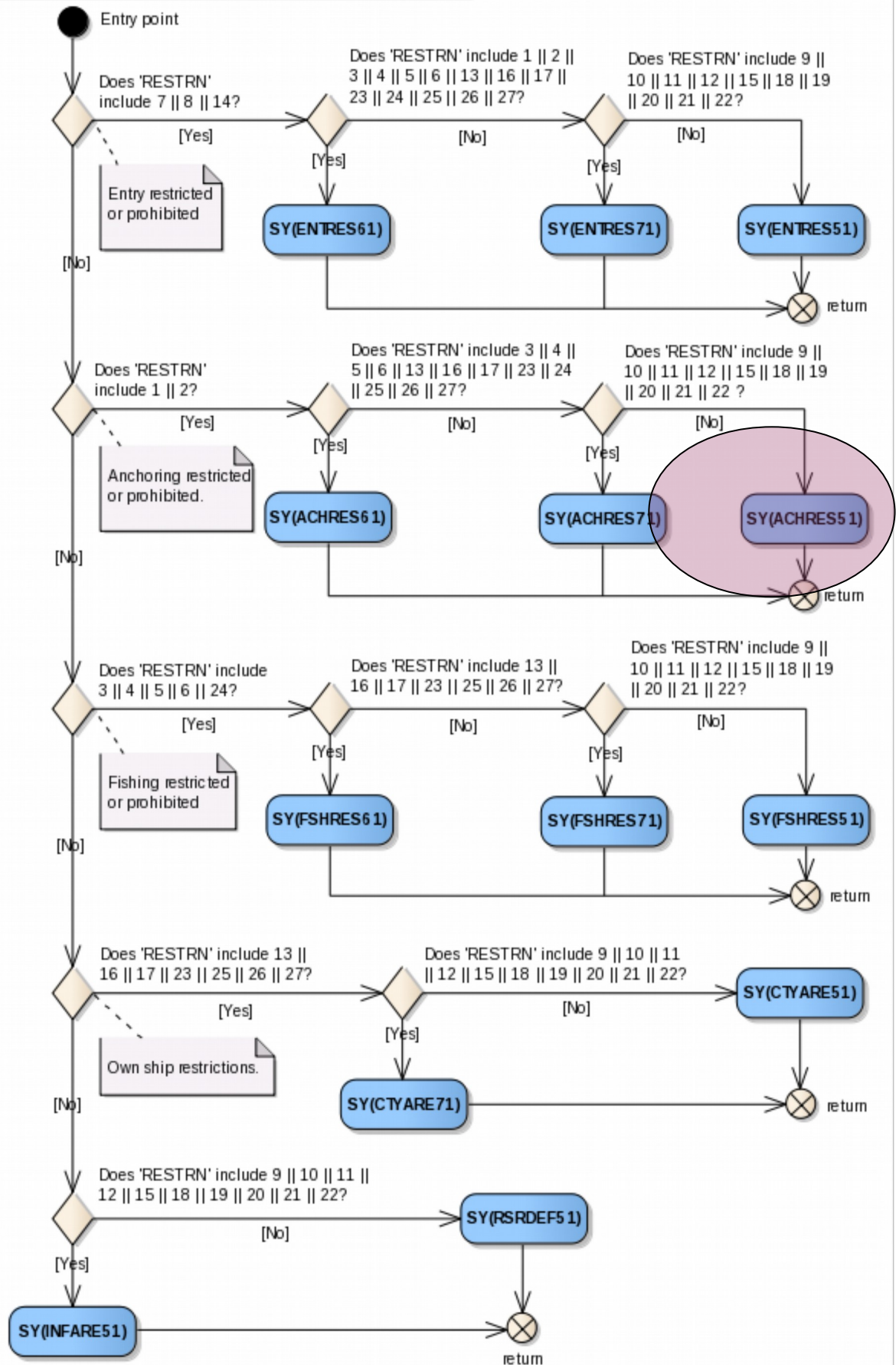
```
....
0001 500006
LUPT 40LU00006NILACHAREA00003SPLAIN_BOUNDARIES
ATTC 1
INST
82SY(ACHARE51);TX(OBJNAM,2,1,2,'15110',-1,2,CHBLK,26);LS(DASH,2,CHMGF);
CS(RESTRN01)
DISC 9STANDARD
LUCM 626220
**** 0
0001 500007
LUPT 40LU00007NILACHAREA00003SPLAIN_BOUNDARIES
ATTC 8CATACH8
INST
82SY(ACHARE02);TX(OBJNAM,2,1,2,'15110',-1,2,CHBLK,26);LS(DASH,2,CHMGF);CS(RESTRN01)
DISC 9STANDARD
LUCM 626220
**** 0
```

The default rule is applied on S57 feature instances encoded as follows :

- OBJL : ACHARE
- PRIM : AREA
- ATTL/ATTV : RESTRN/Anchoring Restricted (2)

In addition to the centred symbol instructions ACHARE51, the conditional procedure RESTRN01 add a second centred symbol instructions ACHRES51, not coherent with the first one.

actRESCSP03 (RES TRN) conditional symbology sub-procedure



3 Proposals

Here are two proposals to avoid this portrayal conflict.

Each proposal relies on a new centred symbol **ACHARE52** to display anchoring areas. (see the definition new symbol in annex).

This new symbol is based on the existing anchoring symbol **ACHARE51** from which we have added an exclamation point to underline the restriction aspect.



3.1 First proposal

By the fact that anchoring areas are rarely without restrictions we propose here a default symbolisation with restriction aspect (== call the new symbol ACHARE52).

In turn , This symbol instructions will be called for any encoded anchoring areas in which the producer doesn't have specifically that it is not an unrestricted anchoring areas (CATACH=1).

Look up table records

```
0001 500006
LUPT 40LU00006NILACHAREA00003SPLAIN_BOUNDARIES
ATTC 1
INST
82SY(ACHARE52);TX(OBJNAM,2,1,2,'15110',-1,2,CHBLK,26);LS(DASH,2,CHMGF);CS(RESTRN01)
DISC 9STANDARD
LUCM 626220
**** 0
0001 500007
LUPT 40LU00007NILACHAREA00003SPLAIN_BOUNDARIES
ATTC 8CATACH8
INST
82SY(ACHARE02);TX(OBJNAM,2,1,2,'15110',-1,2,CHBLK,26);LS(DASH,2,CHMGF);CS(RESTRN01)
DISC 9STANDARD
LUCM 626220
**** 0
0001 500006
LUPT 40LU00006NILACHAREA00003SPLAIN_BOUNDARIES
ATTC 8CATACH1
INST 82SY(ACHARE51);TX(OBJNAM,2,1,2,'15110',-1,2,CHBLK,26);LS(DASH,2,CHMGF);
DISC 9STANDARD
LUCM 626220
**** 0
```

3.2 Second proposal

This second proposal is based on the current portrayal rules at which we add a new one to deal with ACHARE/RESTRN2 , source of the problem detected.

Look up table records

```
0001 500006
LUPT 40LU00006NILACHAREA00003SPLAIN_BOUNDARIES
ATTC 1
INST
82SY(ACHARE51);TX(OBJNAM,2,1,2,'15110',-1,2,CHBLK,26);LS(DASH,2,CHMGF);CS(RESTRN01)
DISC 9STANDARD
LUCM 626220
**** 0
0001 500007
LUPT 40LU00007NILACHAREA00003SPLAIN_BOUNDARIES
ATTC 8CATACH8
INST
82SY(ACHARE02);TX(OBJNAM,2,1,2,'15110',-1,2,CHBLK,26);LS(DASH,2,CHMGF);CS(RESTRN01)
DISC 9STANDARD
LUCM 626220
**** 0
0001 500006
LUPT 40LU00006NILACHAREA00003SPLAIN_BOUNDARIES
ATTC 8RESTRN2
INST 82SY(ACHARE52);TX(OBJNAM,2,1,2,'15110',-1,2,CHBLK,26);LS(DASH,2,CHMGF);
DISC 9STANDARD
LUCM 626220
**** 0
```

but RESTRN is list attribute !!!

4 Annexe A new symbol ACHARE52

that indicates the restricted anchoring (the same as ACHARE51 with a exclamation point)



```
0001 501427
SYMB 10SY01427NIL
SYMD 39ACHARE52V022500225001435013040162101471
SXPO 70area where restricted anchoring
SCRF 12ACHMGFCCHMGD
SVCT
273SPA;SW1;PU2193,1471;PD2193,1800;PD1875,1800;PD1875,1912;PD2193,1912;PD21
93,2596;PD1987,2550;PD1800,2409;PD1621,2409;PD1875,2596;PD2250,2775;PD2596,
2596;PD2850,2409;PD2700,2409;PD2475,2550;PD2268,2596;PD2268,1912;PD2596,191
2;PD2596,1800;PD2268,1800;PD2268,1471;PD2193,1471;
SVCT 33SPC;SW1;PU3019,2325;PD3019,2671;
SVCT 33SPC;SW2;PU3000,2775;PD3038,2775;
**** 0
```

