

**3<sup>rd</sup> NCWG MEETING**  
**ESRI HQ, Redlands, California, USA 16-19 May 2017**

**Paper for Consideration by NCWG3**  
**Aids to Navigation Changes in ENC and Paper Chart**

<b>Submitted by:</b>	Germany (BSH)
<b>Executive Summary:</b>	More AtoN changes in ENCs than in paper charts
<b>Related Documents:</b>	S-4 B-600
<b>Related Projects:</b>	None

**Introduction / Background**

Recently a decision was made in the German Hydrographic Office to include more buoyage changes in the ENC than in the paper chart.

The Federal Waterway and Shipping Authorities produce Announcements for Mariners which are the basis for BSH to produce NtMs. In very changeable fairways only the approach buoyage is published via NtM. The additional buoyage changes usually wait to be published with the annual NE of the chart.

To organize the survey and other works in these areas better the Authorities asked BSH about the possibility to publish all the information of the above Announcements as ENC updates.

**Analysis / Discussion**

B-600 Chart Maintenance says that “the ENC may contain information which needs updating, which is not included in the paper chart.” The following is a good example:

The Announcement for Mariner includes detailed information:

## Deutschland.Nordsee.Ostfriesische Inseln.Accumer Ee, Änderung der Schifffahrtszeichen

<b>aktuell gültig:</b>	ja
<b>Karte(n):</b>	(21) 89
<b>Geografische Angabe in:</b>	WGS 84
<b>Frühere BfS:</b>	49/16, 153/16, 184/16, 8/17, 20/17
<b>Zeit der Ausführung:</b>	sofort
<b>Gültig von:</b>	13.03.17
<b>Gültig bis (einschl.):</b>	auf Widerruf
<b>Angaben:</b>	

Folgende Tonnen wurden verlegt:

Anst. **Accumer Ee** nach Pos.: 53°47,094' N, 007°26,621' E  
 grüne Spitztonne **A1** nach Pos.: 53°46,068' N, 007°26,190' E  
 rote Spierentonne **A2** nach Pos.: 53°46,254' N, 007°26,472' E  
 rote Leuchttonne **A4** nach Pos.: 53°45,828' N, 007°26,292' E  
 rote Spierentonne **A6** nach Pos.: 53°45,432' N, 007°26,124' E  
 rote Spierentonne **A8** nach Pos.: 53°45,072' N, 007°25,974' E  
 grüne Spitztonne **A3** vorübergehend eingezogen

**Aushang bis:** 13.04.2017

Usually only the change of the approach buoy is published via NtM:

★ (21) 89 **Accumer Ee. N-lich Dovetief**

3015

Letzte NfS: 05/17

Verlege  
Relocate



Iso.8s  
Accumer Ee

nach

to 53° 47,09' N 007° 26,62' E

The additional buoyage changes are only included in the next NE of paper and electronic chart.

Chart before NtM:





the buoyage, e.g. it seems to be too shallow to navigate through. This could happen in the time when the survey data which led to the buoyage change did not reach BSH.

But this compromise is well considered by the Authorities as they need the correct buoyage coordinates for their work.

### **Action required of NCWG**

The NCWG is invited to note and discuss this solution.

If an example for inclusion in B-600 is wished BSH could provide it.