



## Baltic Marine Environment Protection Commission

Expert Group on environmental risks of hazardous  
submerged objects  
Gothenburg, Sweden, 14-15 October 2015

SUBMERGED 3-2015

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<b>Document title</b>	Information from Germany
<b>Code</b>	3-1
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### Action required

The Meeting is invited to take note of the attached information and use it as appropriate.

**10.2.3.4. Baltic Sea - international waters**BKB06L BKB10L  
[DE/DK]

Baltic Sea, Little Belt and HELCOM Risk Area

Details of all known factsGeographical location

- ❖ MVG BKB06L | 54,81 °N; 10,19 °E (WGS84) | ~ 4.180 ha.
- ❖ MVF BKB10L | 54,81 °N; 10,17 °E (WGS84) | ~ 27.040 ha.

Attribute

Source	Year	Attribute
Burmeier	2010	V2
BLMP-Code BKB10L (MVF)	2011	BKB06L (MVG) bzw.

Military historyDumped MunitionsSalvages/recoveryLocal risksPrecautionary measures**10.2.3.4. Baltic Sea – Danish Territorial and/or international Waters**BKB06L BKB10L  
[DE/DK]

Baltic Sea, Little Belt and HELCOM Risk Area

Details of all known facts

Geographical location

- ❖ MVG BKB06L | 54,81 °N; 10,19 °E (WGS84) | ~ 4.180 ha.
- ❖ MVF BKB10L | 54,81 °N; 10,17 °E (WGS84) | ~ 27.040 ha.

Attribute

Source	Year	Attribute
Burmeier	2010	V2
BLMP-Code BKB10L (MVF)	2011	BKB06L (MVG) bzw.

Military historyDumped MunitionsSalvages/recoveryLocal risksPrecautionary measures**BPB17L                      Baltic Sea, routes to Bornholm Deep**Details of all known facts

The authors J. SCHULZ-Ohlberg, W. & F. Lemke TAUBER published in 2003 the article „Tracing dumped chemical munitions in Pomeranian Bay (Baltic Sea) at former transport routes to the dumping areas off Bornholm Island”.

Geographical location

- ❖ MVF BPB17L | 54,21 °N; 13,98 °E (WGS84) | ~ 20.780 ha (Area in the Baltic Sea).

Attribute

Source	Year	Attribute
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BLMP-Code	2011	BPB17L (MVF)
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Military history

Dumped Munitions

Salvages/recovery

Local risks

Precautionary measures

### 10.2.3.5. **Baltic Sea of Schleswig-Holstein**

General Description

**BFF01S** **Flensburg, Fahrensodde**

Details of all known facts

Geographical location

❖ MVF BFF01S | 54,82 °N; 9,46 °E (WGS84) | ~ 6 ha.

Attribute

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Source	Year	Attribute
Burmeier	2010	O1
BLMP-Code	2011	BFF01S (MVF)

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Military history

Dumped MunitionsSalvages/recoveryLocal risksPrecautionary measures**BKB09L****Inner Gelting Bight**Details of all known factsGeographical location

❖ MVF BKB09L | 54,79 °N; 9,82 °E (WGS84) | ~ 360 ha

Attribute

Source	Year	Attribute
Burmeier	2010	V1
BLMP-Code	2011	BKB09L (MVF)

Military historyDumped MunitionsSalvages/recoveryLocal risksPrecautionary measures**BKB01L****Angeln, north of Schleimünde, Falshöft**

Details of all known factsGeographical location

❖ MVF BKB01L | 54,73 °N; 10,05 °E (WGS84) | ~ 610 ha.

Attribute

Source	Year	Attribute
BSH / German Navy Office	-	B1001
Burmeier	2010	O2
BLMP-Code	2011	BKB01L (MVF)

Military historyDumped MunitionsSalvages/recoveryLocal risksPrecautionary measures**BSL01S****Schlei, close to Karschau**Details of all known factsGeographical location

❖ MVF BSL01S | 54,62 °N; 9,89 °E (WGS84) | ~ 21 ha.

Attribute

Source	Year	Attribute
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BSH / German Navy Office	-	DA_832114
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Burmeier	2010	O11
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BLMP-Code	2011	BSL01S (MVF)
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### Military history

### Dumped Munitions

### Salvages/recovery

### Local risks

### Precautionary measures

## **BKB02L**

## **Schwansen, Schönhagen Reef**

### Details of all known facts

### Geographical location

❖ MBF BKB02L | 54,60 °N; 10,09 °E (WGS84) | ~ 1.450 ha.

### Attribute

Source	Year	Attribute
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BSH / German Navy Office	-	B1012
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Burmeier	2010	O3
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BLMP-Code	2011	BKB02L (MBF)
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### Military history

Dumped MunitionsSalvages/recoveryLocal risksPrecautionary measures**BKB03S****Schwansen, Bookniseck**Details of all known factsGeographical location

❖ MVF BKB03S | 54,56 °N; 10,03 °E (WGS84) | ~ 9 ha.

Attribute

Source	Year	Attribute
BSH / German Navy Office	-	WA_832119
Burmeier	2010	O4
BLMP-Code	2011	BKB03S (MVF)

Military historyDumped MunitionsSalvages/recoveryLocal risksPrecautionary measures



**BKB07L****Schwedeneck, Dänisch Nienhof**Details of all known factsGeographical location

❖ MVF BKB07L | 54,50 °N; 10,13 °E (WGS84) | ~ 1.050 ha.[Attribute](#)

Source	Year	Attribute
BLMP-Code	2011	BKB07L (MVF)

Military historyDumped MunitionsSalvages/recoveryLocal risksPrecautionary measures**BKB04L****Probstei, Kolberger Heide**Details of all known factsGeographical location

❖ MVG BKB04L | 54,46 °N; 10,34 °E (WGS84) | ~ 1.260 ha.

Kolberger Heide is the name of a section of western Kiel Bight, east of Laboe, at the entrance to Kiel Fjord. It is located seaward of the villages Heidkate, Wisch, and Wendtorf (Kreis Plön) and is covered by nature conservation areas of European importance (DIRECTIVE 2009/147/EC on the conservation of wild birds and FFH-Directive).

Attribute

Source	Year	Attribute
BSH / German Navy Office	-	B1005
Burmeier	2010	%
BLMP-Code	2011	BKB04L (MVG)

### Military history

It is assumed that here both, ammunition from bunkers and depots of the Navy, as well as munitions off board of German Navy ships returning home to Kiel was dumped in the area. According to Kinder, 1984 up to 18,000 metric tons maritime munitions and depth charges could once have been dumped there. In the post war years in particular moored mines from this area have been washed up on the beach of the Kiel Fjord.

A so far unnoticed shift under water may be assumed for the vicinity of the original dumping ground.

### Dumped Munitions

According to Kinder, 1984, up to 8,000 Torpedo heads, many depth charges and up to 10,000 Mines of various types have been originally dumped after the war. From these amounts the quantities of the till 1954 recovered munitions by fishermen etc. has to be deducted. Recently some 130 German torpedo heads and submarine- and moored mines were found in very different states of corrosion. Further, there are indications that below the originally dumped mines scattered naval artillery shells might be located.

### Salvages/recovery

In the fifties, the Hamburg-based company Porr received an approval to salvage munitions from the dumping ground for the purpose of decommission and raw material recovery. Up to 15 boats Electromagnets were used for that purpose. For post-processing on land a decommission workshop at Laboe (Jägersberg) was established. In 1954 a serious accident happened and caused three dead workers. It is assumed, that a torpedo exploded by self-ignition. The work was stopped immediately.

In preparation for the 1972 Olympic Sailing Games in Kiel-Schilksee swiped ordnance-clearing service and German Navy the regatta courses systematically. At that time, a significant number of large explosive devices were detected and destroyed. The therefore used method was blasting destruction and low order blasting as an explosive technical destruction method. As a result, a relevant quantity of explosives (TNT) was floating in the water and ultimately washed ashore. At the beach of Schönberger Strand a greater cleaning action of the authorities became necessary.

In 2005 divers reported accumulations of submerged munitions under water. As a result 2006 30 mines and torpedo heads had been destroyed by blasting by German EOD teams. This destroying method was heavily criticized by the German NABU. Consequently the method has to be adapted to fulfill the German Species conservation law. Since then 20 large explosive devices were removed in an environmentally friendly way, specially

using the bubble curtain method to fulfill the task under acceptable risks for the employees of the EOD teams.

### Local risks

In 2006 it was stated, that the ammunition dumped is not safe to handle.

### Precautionary measures

Since 2006, two restricted areas are set up and since 2009 extensive EU Species protection regulations allow only blasting of dumped munition if it is unavoidable necessary to eliminate present danger. The chemical pollution of the water is monitored. On the of The state government website [www.munition-im-meer.de](http://www.munition-im-meer.de) informed about the ongoing measures and the results.

## **BKF01S**

## **Kiel, inner bight**

### Details of all known facts

### Geographical location

❖ MBF BKF01S | 54,39 °N; 10,21 °E (WGS84) | ~ 6 ha.

On the east bank of the Kiel Fjord, between the towns Laboe and Heikendorf (Kreis Plön) are the districts Jägersberg, Korügen Dänenkate. In front of Jägersberg, in the maritime area Madsenssand, a dumping ground is marked in See charts.

### Attribute

Source	Year	Attribute
BSH / German Naval Office -		DA_832077
Burmeier	2010	O6
BLMP-Code	2011	BKF01S (MBF)

### Military history

The Kiel Fjord has been a military hot spot since the "fleet policy" of the German Empire has formed the Kaiserliche Marine in the early 1900. This applies for the German Navy ships and the affiliated units and facilities on shore as well. The city of Kiel has been the target of Allied air raids. In particular the shipbuilding yards on the eastern shore of the city have been extensively bombed. A result of this use is also the load of the Kiel Fjord and adjacent land areas with explosive ordnances of various kinds.

Several military installations were located among the steeply rising hills on the east bank of the Kiel Fjord. The in direct translation so called "munitions pier" or "Navy pier" is an up to date used depot for Navy munitions.

### Dumped Munitions

Conceivable dumping includes all types of naval munitions, including lighting and alarm munitions.

### Salvages/recovery

In this area, smaller quantities of ammunition have already been cleared.

### Local risks

It can be assumed, that explosives from munitions might washed ashore and be encountered and collected by beach visitors.

### Precautionary measures

The location of the dumping ground is marked in official See charts. Due to the current use as an area of professional and recreational boating a survey for dumped munitions is recommended. Therefore The search in the deeper sediment for submerged munitions is consider of particular importance.

## **BKB08L**

## **Hohwachter Bucht**

Details of all known facts

Geographical location

- ❖ MVF BKB08L | 54,44 °N; 11,68 °E (WGS84) | ~ 47.700 ha.

Attribute

Source	Year	Attribute
Burmeier	2010	M4
BLMP-Code	2011	BKB08L (MVF)

Military history

Dumped Munitions

Salvages/recovery

Local risks

Precautionary measures

**BKB05S**

**Insel Fehmarn, Westermarkelsdorf**

Details of all known facts

Geographical location

MBF BKB05S | 54,52 °N; 11,03 °E (WGS84) | ~ 14 ha.

Attribute

Source	Year	Attribute
BSH / German Navy Office	-	B1007
Burmeier	2010	O7
BLMP-Code	2011	BKB05S (MBF)

Military history

Dumped Munitions

Salvages/recovery

Local risks

Precautionary measures

### 10.2.3.5.1. Munitionsbelastung der Lübecker Bucht

#### General Deskription

**BLB01L BLB05L BLB07L** **Lübecker Bucht, bei Neustadt/H.**

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#### Details of all known facts

#### Geographical location

- ❖ MBF BLB01L | 54,08 °N; 10,99 °E (WGS84) | ~ 600 ha.
- ❖ MBF BLB05L | 54,09 °N; 10,96 °E (WGS84) | ~ 1.030 ha.
- ❖ MVF BLB07L | 54,03 °N; 10,94 °E (WGS84) | ~ 3.850 ha.

#### Attribute

Source	Year	Attribute
BSH / German Navy Office	-	DA_B10031
Burmeier	2010	V7
BLMP-Code	2011	BLB01L (MBF)
BSH / German Navy Office	-	DA_B10031
Burmeier	2010	O8
BLMP-Code	2011	BLB05L (MBF)
BSH / German Navy Office	-	MunVFL_V6
Burmeier	2010	V6
BLMP-Code	2011	BLB07L (MVF)

#### Military history

Dumped Munitions

Salvages/recovery

Local risks

Precautionary measures

**BLB02L**

**Lübeck Bight, east of Haffkrug**

Details of all known facts

Geographical location

❖ MVF BLB02L | 54,04 °N; 10,81 °E (WGS84) | ~ 410 ha.  
Attribute

Source	Year	Attribute
BSH / German Navy Office	-	B1002
Burmeier	2010	O9
BLMP-Code	2011	BLB02L (MVF)

Military history

Dumped Munitions

Salvages/recovery

Local risks

Precautionary measures

**BLB03S BLB04L****Lübeck Bight, off Travemünde**

Details of all known facts

Geographical location

- ❖ MVF BLB03S | 54,00 °N; 10,91 °E (WGS84) | ~ 29 ha.
- ❖ MBF BLB04L | 54,00 °N; 10,93 °E (WGS84) | ~ 270 ha.

Source	Year	Attribute
BSH / German Navy Office	-	B1004
Burmeier	2010	O10
BLMP-Code	2011	BLB03S (MBF)
BSH / German Navy Office	-	DA_832362
Burmeier	2010	(teilweise überlagert von) V6
BLMP-Code	2011	BLB04L (MBF)

Military history

Dumped Munitions

Salvages/recovery

Local risks

Precautionary measures