

# Daily circulation pattern German Bight Zirkulationskalender Deutsche Bucht 1997



BUNDESAMT FÜR  
SEESCHIFFFAHRT  
UND  
HYDROGRAPHIE

Die Zirkulationskalender der Jahre 1997 -1999 basieren auf der Version BSHcmod 2 mit einem größeren Gitter und einem längeren Zeitschritt.  
The circulation calendars 1997 – 1999 are basing on version 2 of BSHcmod with a coarser grid and a larger time step.

1997	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	V	C	C	V	C	V	C	C	C	S	V	N
2	V	C	C	C	C	V	C	C	C	A	W	W
3	W	C	S	S	NW	N	C	NW	C	SE	NW	NW
4	V	C	V	V	C	C	C	NW	C	SE	N	C
5	V	S	V	V	C	C	V	NW	C	V	C	E
6	V	C	N	W	A	C	A	N	NW	N	C	C
7	V	SE	C	C	C	C	C	N	NW	C	C	C
8	V	SE	NW	V	C	C	NW	C	S	C	C	C
9	V	SE	N	V	C	NW	NW	N	A	V	C	C
10	V	SE	V	S	C	NW	NW	N	A	V	C	C
11	N	C	N	A	C	C	N	C	C	V	C	W
12	C	C	V	V	C	C	N	C	C	A	C	W
13	C	C	C	A	N	C	C	SE	SE	A	C	A
14	C	C	A	A	NW	V	C	V	V	W	C	NW
15	C	V	NW	A	NW	A	C	V	C	NW	N	NW
16	N	NW	N	V	N	A	C	V	C	C	N	NW
17	C	C	C	W	C	V	C	C	W	C	N	C
18	N	C	C	W	C	V	NW	C	A	N	N	C
19	V	C	NW	C	C	C	NW	N	A	W	C	C
20	V	C	C	V	C	C	V	C	N	W	C	NW
21	N	E	NW	A	NW	C	N	C	V	V	C	NW
22	C	C	C	C	NW	V	C	C	V	A	C	C
23	N	C	C	V	NW	A	C	C	V	A	N	C
24	N	C	C	V	NW	V	C	C	V	A	N	C
25	N	C	C	NW	V	NW	C	C	V	A	N	C
26	C	NW	N	N	A	NW	C	C	V	V	C	C
27	A	C	SE	C	A	C	V	C	C	V	C	C
28	A	C	S	C	V	C	V	C	C	A	C	C
29	V	C	A	W	W	NW	C	C	V	V	C	C
30	A	C	V	NW	NW	C	C	C	C	V	NW	C
31	A	C	V	N	N	C	C	C	C	V	NW	C

C = cyclonic ↻, A = anticyclonic ↺, V = variable

N = ↑, S = ↓, E = →, W = ←, NW = ↖, SE = ↘

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1998	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		C	V	NW	NW	V	V	V	N	NW	V	V
2		S			W	C	V	V			C	V
3		V	C		A		A	C		N	C	C
4					E	NW	S	V	C	NW	V	V
5		C	V	C						W	E	A
6			NW		C	C	A		N		A	
7		V	C				A	N		MW	N	V
8	C	C	V		C	C	V	V		N	C	C
9		C	W	NW				NW		C	C	
10			NW		NW		C	N	C	S	V	N
11		NW	V			A	E	C		V	W	
12					N		C				N	
13		C	A	C			V			C	C	
14					V	C	SE	C	V	SE		C
15			V		NW	C	W	V		S	NW	
16	S	V	S	NW	NW	S	N	C	C	C	W	
17	C					A	C		A	SE	V	
18		V	A	V	V	C	V	V	V	V		
19	V	C				N	N	C			NW	V
20	W			C		C	C		NW		V	A
21	V		NW	N	A	C	V					NW
22		V		N	A	V	N	A		C		
23	A	SE	N	C			C	NW			C	
24		V		C	V		V	V	N		C	
25	V	C	C		C	C	NW			E		C
26				N				A	NW	V		
27	A			V	N	C	N			C	NW	
28	W	S		NW	NW				N		C	
29	A		N	W	C		C	W		V	N	N
30	NW		C	N					NW	V	W	C
31	N		V		N		V	NW				

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BSH

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1999	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		A	V	N		NW	V		V			
2		V					NW		N	C		C
3		SE	C		NW		C		V			
4	C			C					N	V	C	
5		A	N				NW			A		
6		NW	C	A		C	V	C	C	W		
7										C	N	
8	NW	V	NW	C						V	V	
9	W	C	V	C	C				V	V	A	
10	NW	NW	NW				NW	A	N			
11	V	V	N	V		N				S	V	
12	C		C	C			N	W	C	A	A	
13		C		V			C				A	
14	E		V	A	A	V	E	C	N	W	V	
15				C	E					NE		
16		V	C	N	NW	C	C	V	C		C	
17	C	A	C		W	W		N		V		
18		V		A	NW	V	N	C	V		NW	
19		SE	A		C	C				W	A	
20		C	C	N			C	V				
21	V		V		SE						C	
22		V		C		A	S	W				
23		A	N				A	V		C	N	
24					C		V	NW				
25	C	E	C	N		V	W	N	C			
26				NW		NW		C		V		
27		C	V	W	N		NW			C	C	
28	NW		N	A	C			V		N		
29	V		C	V	W							
30					NW		N			C		
31	A		N									

no data

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2000	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	C	C	C	V		C	A		C			
2	SE	SE	V	C			V	C	C			
3		A	C		V	W	W		A		C	
4			V	V			NW					
5	C			A	W	C	W	V	V			
6					V		A		C		NW	
7			C					A		C		
8		C		V	NW	N	V			C		C
9	V		V	W	N			V	V			
10	A			V			C	C				
11			E	NW	W	C						
12			V		NW		V	V				
13	C		C	C	V		S					
14		A	SE			V						
15	W	E		W		S			C	W		
16	S	C	A	C		A	V					V
17					C			C				W
18	A										C	V
19		V		N			A		N			NW
20	S	A						V	NW	V		
21	A	V	V	C	V	C				C		V
22	C	C					W		C	V		C
23		N	W		C		V	A				V
24	V	C	NW	V				S	NW			NW
25		SE		N	V	S	W	A				A
26	S	V		C				NW				V
27	SE		NW	V	C	A			C	C		
28	C	C		C			V	C				C
29			A									
30	V			V	V	S		V				V
31	E		V		C		A					

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2001	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	C	W	W	C	A	V	V	A	C	C	A	C
2	C	W	W	C	A	S	V	V	C	C	S	V
3	C	NW	W	C	A	S	V	C	E	C	SE	C
4	C	W	V	C	A	A	V	V	C	C	A	V
5	C	C	V	C	A	V	V	C	V	C	E	W
6	C	C	N	C	W	C	N	V	S	C	V	V
7	C	C	N	C	V	C	C	C	SE	C	A	V
8	V	A	C	V	NW	V	V	V	C	C	V	V
9	W	N	C	V	V	V	C	A	V	V	V	A
10	A	C	C	A	V	V	C	V	C	C	S	W
11	A	A	C	V	V	V	C	C	C	C	A	V
12	A	A	C	V	V	V	C	C	V	C	V	V
13	V	V	V	C	NW	V	V	V	C	C	S	W
14	V	V	V	V	C	C	V	C	C	C	A	A
15	NW	A	A	S	C	W	V	V	C	W	A	A
16	C	S	A	V	A	A	C	W	C	C	A	S
17	C	A	A	C	V	C	C	C	NW	N	V	A
18	N	S	V	W	A	C	C	N	V	C	E	V
19	NW	S	V	V	V	V	V	V	C	C	V	N
20	C	V	N	V	V	V	V	N	NW	C	A	V
21	C	V	N	V	V	V	V	W	W	C	V	C
22	C	C	W	C	A	V	V	V	C	C	V	C
23	C	C	W	C	V	V	V	C	C	C	A	A
24	C	N	NW	V	C	C	V	S	C	C	V	V
25	C	W	N	C	C	C	V	A	C	C	C	C
26	V	W	N	C	W	C	A	S	S	V	C	C
27	V	W	N	C	W	C	A	S	S	SE	C	C
28	V	W	N	C	W	C	A	S	S	SE	C	C
29	V	W	N	C	W	C	A	S	S	SE	C	C
30	V	W	N	C	V	C	S	V	C	C	C	V
31	A	W	N	C	V	C	A	C	C	C	C	V

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2002	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
1	SE	C	C	C	C	V	C	V	A	V	V	C			
2	A		S	N	V	V		C	C	V	V		C		
3	N		V	NW	C	N		V	V	C	S			N	
4	V		E	W	W	NW							V		V
5	C		C	A	V	C		C	V	C	A		C	A	
6	A		E	V	V	NW		C							V
7	V		V	V	V	C			C	C	NW		NW	V	
8	C		E	W	NW	V		C							C
9	A		C	N	V	V		E	V	A	V		N	C	N
10	C		A	A	V	C		V	V	V	V		V		
11	S	V	C	V	W	V	A	V	C	V	V	A			
12	C	SE	V	V	V	V	A	A	V	V			W	V	
13	V	C	A	C	C	C	S	C	W	C	NW	NW			
14	A	C	V	V	C	E	V	V	A	V			C	C	
15	C	V	V	V	V	S	V	V	A	V	C	N			
16	C	A	C	C	C	V	V	W	A	V			C	C	
17	C	V	V	V	V	V	V	V	V	V	C	C			
18	C	V	V	V	V	V	V	V	V	V			C	C	
19	C	V	V	V	V	V	V	V	V	V	C	C			
20	C	V	V	V	V	V	V	V	V	V			C	C	
21	C	V	V	V	V	V	V	V	V	V	C	C			
22	C	V	V	V	V	V	V	V	V	V			C	C	
23	C	V	V	V	V	V	V	V	V	V	C	C			
24	C	V	V	V	V	V	V	V	V	V			C	C	
25	C	V	V	V	V	V	V	V	V	V	C	C			
26	C	V	V	V	V	V	V	V	V	V			C	C	
27	C	V	V	V	V	V	V	V	V	V	C	C			
28	C	V	V	V	V	V	V	V	V	V			C	C	
29	C	V	V	V	V	V	V	V	V	V	C	C			
30	C	V	V	V	V	V	V	V	V	V			C	C	
31	C	V	V	V	V	V	V	V	V	V	C	C			

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2003	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	V			C		V	C					N
2	C	C	C	V		C		V	A		C	NW
3				A	C	C	V			V		C
4	W		N	S		N	S					A
5	V	V	C	A			A	W	V		V	S
6	A			A		V				C	N	A
7		C	V				V	V			NW	
8	V	V		V	V		C		C		W	V
9				W		E	A			V		
10	C	C	C	NW		V	V	C		SE	C	C
11				C		E	C		V		N	
12	V				C	V	S	W	S			N
13				V		S	A	SE	A			C
14	E			NW						A	C	SE
15	C		V	N	A	V	V	A	V			A
16	E	V			V							
17				V	N						V	
18				W		C		V				
19	C		A	A				SE	C	V		C
20			V			SE		S	V	A	C	
21		C	N	N		A		C				
22		N	V	C	C	V	C	E	C	N		V
23	V			V		C			V	A		
24		C	C			S			A	C	A	
25	C	V	N			C			V	V	C	
26			V					A	C	W	N	
27	SE	C	C	C					A	SE	C	C
28	E		V		V	V	V				V	
29	C		C		V			W	V	C		
30			S			NW	C	C	N		C	
31	A		A					S		NW		W

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2004	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	NW		A	NW	V	C		V	A	N	V	
2				N		NW	C				A	V
3	C		V		C			W			C	
4		C	N	C		C		V		C		C
5	N				V	NW	V	NW			SE	SE
6	C		C		A	V					A	A
7			V	V		C	A	N	A			V
8	N			W	NW	NW					C	A
9		A	A		W		C	NW	V	A	V	V
10		V		A	A	C	C				E	
11		C			V			C			C	C
12		V	NW		A	V	S	V		V		V
13	C			V	W	A		C	C		A	
14					V	SE	SE			C		
15		V			S	S	V	V			SE	
16				C	A	A			A		A	C
17	NW	S			V	C	C			V	C	
18	V		C	N		V		C		S		
19	C	A		C	SE		V		C	NW	A	A
20	A						NW					
21	V	V		V				V				
22		S		C		C	V	A			C	
23	C	A	V	A			C	N		C	A	
24					A		S				V	
25			A	V			SE				C	
26		C				A	V		V			
27	V			W		C	A			NW	V	
28			C			E		SE		N	C	
29	C	A		NW	V	V	V			C	V	
30			A		N	C	C					
31			NW		C		V	V		V		

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2005	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1			C	N	NW	A		V	C	C		C
2	C	A	NW		C	C			NW	V		N
3	A		A			C	C	C	V	W		
4	C		C		S			V	N	V		
5	E		N	C	C	V						C
6			A				NW	S	C	NW	C	
7		C				A	C					
8			V		V		NW	V		C		V
9	C			V		V			NW			C
10				C		A	W	S	W	V		
11		V	E			A	A		V			SE
12		C	C		A	V	V	A	A	C		
13	V	V		V		C			A		V	A
14	A	A	V				C	C	E	A	SE	
15	V	A			W	V	V	A	V	V		S
16			C	NW	S	C	A		A	W	V	V
17	C	V		W	A			V		V		
18		C		NW	V	A			V		W	A
19			NW	NW		V		C			A	A
20	SE			A		C		C	C	N		
21	V	NW	N	V		V	V	NW	NW			SE
22		A			C	W		V	N	C	V	A
23		N	C	NW		V		W	C	A		SE
24	A	V	NW			NW	A		W			S
25			C	W			V	C	V	C		
26		NW		NW		A	A				C	A
27	V	A		C	NW					V		
28	C	V	NW	V	C		V	V	C			
29	V			C	V	W		C		C		
30				V		N	C	NW			V	N
31	S				S			N				C

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2006	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	C				N	C					V	
2	NW	V		C	C	V	V	C	C	C		
3	V						C				A	
4	NW		C	S		A	V	W	V	V		
5	W	C		A	N			V	A		S	
6									C	C		
7	NW	V	V	C	NW		C	A	S		SE	C
8		E	N			V			A	V	C	
9		V	C					V	A	C	S	
10	C	A	NW	A	V				V	V	A	
11		V				N	V			NW	C	
12	V		A	C		C		C	C	C	V	
13			V				A			N	SE	E
14		C			W	A		V		V	V	C
15	C		W		V				NW			
16				V	C	C		V				V
17			A		V	V						
18	V	V					V					
19	C		V	C				C				
20		A		N		C				C		A
21	V		A	V		C			C			
22				N				V			C	
23	C	V	V				C	V			C	
24			NW			V						
25						W		N		N		
26		A		V	V	V		V		C		V
27		V					V	E	V			
28	A	C	C		E	A				V		
29				W	S	V		V	C			C
30				V	A		C			C		
31	V				V			C				

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2007	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	C	V	C	V	V	NW	C	V	A	A	V	C
2	V	S	C	V			C	V	C	A	V	C
3	C	A	V	A	W			W		V	S	
4			NW			V		C		C	A	V
5	V	S		S			V	N		A	C	
6		V		A	E		C	C	A	V		C
7		C	C	V	V						V	
8		N		SE		NW	V			A		V
9	C	A			A		V	A				C
10		W	V		C				SE	V	A	NW
11			C	V	V	V	SE				V	W
12						V	V	V	A	A	A	
13	V	C	V	NW	C	C	C			V	V	
14				V		W			E	C	A	V
15			C	C	V	W	W		A			
16		N	SE	V	A	C	C	C	C	C		
17		C	V	A		C	C	C		V		
18	C	V	C	A		V			A	A	V	A
19			A	SE	C	NW	V			A		V
20			V	A		C	A		C			W
21					A		C	W		V	C	V
22	V	C		V		V		A	V	C	C	C
23			A		V		V	V		A	A	V
24	A			C		C			C		V	
25								SE		V	SE	
26	SE	V			W			S	V			C
27	A	A	V	W		V	C		A	A	C	
28	SE	C						A		C		
29	C		C	V	C	C	S		V		C	
30	S		V	A				SE		A		V
31	SE		NW				A			V		C

# Daily circulation pattern German Bight Zirkulationskalender Deutsche Bucht 2008



BUNDESAMT FÜR  
SEESCHIFFFAHRT  
UND  
HYDROGRAPHIE

2008	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	W	C	C	C	C	V	NW			C	A	
2		V	V				C	C				C
3	NW		C	A	NW	C				V	V	
4	N	C	A	C	V		V	SE		C		C
5						NW		A			W	
6					W			C	C	A	C	V
7		A	C	V	V					C	V	A
8	C	C						S				C
9			N				C	V		A		
10		V	C	N	NW	SE					C	V
11				NW								
12				C	W	V		C	N	C		N
13	N				NW				NW			NW
14		W	V	V			V					V
15		A		A	A	C					E	NW
16	C	V				V	SE			E	A	
17		SE		W			V	V		A	V	V
18		A	A		V				V	E	E	
19		V			A	C	C	C			SE	C
20	V	C	C	A						C		SE
21	A		A		W	V	V		W	V	V	
22		V				C	A					
23		C	C			A	V	V	A	C		A
24	C	V		C	A	C				V	A	
25		C	V			V		C	V	C	SE	
26		V	V	N			NW					
27	V	A	N	C	V	C		E	A	V	C	V
28		C	C		N		C	V				
29	C		C	N	V	V	V		SE	C	V	A
30							NW	N	C	A		V
31			V							V		

# Daily circulation pattern German Bight Zirkulationskalender Deutsche Bucht 2009



BUNDESAMT FÜR  
SEESCHIFFFAHRT  
UND  
HYDROGRAPHIE

2009	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	W	A	V	V	NW	A	V	V	C	S	C	A
2	V	V	C	V	C	S	V	C	C	S	C	NW
3	S	C	C	V	V	A	V	C	C	C	N	C
4	NW	C	N	C	E	S	C	V	V	V	C	C
5	A	C	C	V	C	A	V	V	V	C	C	C
6	V	C	V	V	C	W	C	C	C	C	C	C
7	A	V	C	C	C	NW	C	NW	C	C	C	C
8	V	C	C	N	C	NW	C	C	N	V	N	N
9	C	C	C	N	C	NW	C	A	V	A	A	C
10	C	A	V	NW	V	C	V	V	V	V	V	C
11	C	A	C	C	A	A	V	V	C	C	C	A
12	C	V	C	N	C	SE	C	SE	A	A	C	A
13	V	V	V	V	A	A	V	A	A	A	C	V
14	V	A	C	W	A	V	V	C	A	A	C	V
15	C	C	V	W	C	A	C	E	V	V	C	C
16	C	NW	A	A	C	V	C	E	V	V	C	C
17	C	V	V	V	C	C	C	V	N	C	C	A
18	C	V	W	A	C	C	C	N	V	C	C	V
19	V	S	V	V	C	V	V	C	V	C	C	C
20	V	E	SE	V	C	V	V	C	V	NW	N	C
21	C	SE	SE	SE	E	A	C	C	C	NW	N	C
22	C	A	E	A	V	V	C	NW	E	C	C	C
23	C	V	C	NW	V	A	C	C	SE	N	C	N
24	NW	E	C	NW	W	A	C	C	SE	N	C	V
25	V	V	C	V	C	W	V	C	V	C	C	C
26	V	A	C	C	C	NW	C	C	V	V	C	C
27	V	C	C	NW	V	V	C	C	SE	C	C	V
28	NW	C	V	N	A	V	V	C	A	V	C	V
29	NW	C	V	N	A	V	V	C	A	V	C	V
30	V	C	C	V	A	C	C	V	V	V	C	A
31	A	C	V	C	A	C	V	C	C	C	C	A

C = cyclonic ↻, A = anticyclonic ↺, V = variable

N = ↑, S = ↓, E = →, W = ←, NW = ↖, SE = ↘

# Daily circulation pattern German Bight Zirkulationskalender Deutsche Bucht 2010



BUNDESAMT FÜR  
SEESCHIFFFAHRT  
UND  
HYDROGRAPHIE

2010	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	A	V		C	C		NW			N	V	A
2	W	C	V	C	W		C			C		
3	A	V				V	V	C	A	N	C	V
4	V									C		C
5	C	NW	C	N	A							
6		C	A	V			A	V		C		
7	V			C		C	C	C	V	V	A	V
8		V		V	V	V	C		NW		W	
9	A		V	V		C	V			W	V	S
10						V	V			V		SE
11		A		A	A	C		C			C	S
12	V		SE			SE	C		C	A		
13				V		A	C			V	V	A
14	C	V	V	W	V	V	N	V			C	
15				V			C	A				
16	NW			A	V	A	V		V	A	W	C
17	C	C		E			C	C	SE		A	NW
18			C	V	A		V		A	C		
19				A	A	S	C	E		V	C	V
20	NW			C			V		C	A		C
21		V	V			V	C			SE	NW	
22		C			V		V	C	V	V		W
23	C	A	C	V		C	C			C	A	A
24		V	V			C	S		C	V		
25	NW				A	V	A	V		A		
26	V	C	C	C			C				W	V
27	E			V	V	NW	N	A	A		N	
28	V		V		C	C	V			C		NW
29				C		V	S	C	NW		A	
30			C	C			SE	A	N			V
31	C				A		C			NW		

C = cyclonic ↻, A = anticyclonic ↺, V = variable

N = ↑, S = ↓, E = →, W = ←, NW = ↖, SE = ↘