

II/0

5BG/3-0
5 Cdn Inf Bde
24 Oct 44

R H C
R de Mais
Calg Highrs

16

TIDE TABLES

1. Herewith a/m document for which Amendment No. 1 was sent you this morning. The amendment cancels, and will be substituted for, page 1 of the Tide Tables att.

POST/DRLS
G/JW


(G.H. Hees) Major
BM 3 Cdn Inf Bde

SECRET

TIDE TABLES

COST ACCOUNTING

No information available on which to base tide tables.

It is safe to assume, however, that timings at any point are within plus or minus 10 mins of timings at a corresponding point of like CASTING given in CASTING TABLES attached. This assumption is based on the fact that COST ACCOUNTING does NOT differ much in shape and size from CASTING.

Time of high tide at YL 344 will be same time as high tide at YL 344.

CASTING POINTS

COST ACCOUNTING

COST ACCOUNTING

COST ACCOUNTING

COST ACCOUNTING

YL 344

YL 344

CASTING POINTS

CASTING POINTS

CASTING POINTS

CASTING POINTS

CASTING POINTS

CASTING POINTS



TIDE TABLE

WESTERSCHELDE

TERNEUZEN

RODEKERENSKENKE

Average time interval water over
 1 m 3 m 2 m 1 m
 2 hrs 4 hrs 6 hrs 8 hrs
 5 mins 0 mins 10 mins 30 mins

Average time interval water over
 4 m 3 m 2 m 1 m
 2 hrs 4 hrs 6 hrs 8 hrs
 10 mins 5 mins 20 mins 40 mins

Dates	High Water		Low Water		High Water		Low Water	
	Time	Height	Time	Height	Time	Height	Time	Height
8	0808 2040	3.97 3.92	0144 1419	0.54 0.60	0826 2058	4.01 3.96	0158 1433	0.45 0.51
9	0924 2205	3.87 3.88	0254 1533	0.64 0.66	0942 2234	3.91 3.92	0308 1547	0.55 0.57
10	1049 2324	3.92 4.02	0411 1653	0.67 0.63	1107 2342	3.96 4.06	0425 1707	0.58 0.54
11	1152	4.09	0533 1806	0.59 0.56	1210	4.13	0547 1820	0.55 0.47
12	0017 1240	4.17 4.27	0635 1903	0.50 0.43	0035 1258	4.21 4.31	0649 1917	0.41 0.34
13	0059 1316	4.33 4.41	0725 1937	0.39 0.33	0117 1334	4.37 4.45	0739 1951	0.30 0.24
14	0130 1343	4.43 4.50	0800 2018	0.33 0.32	0148 1401	4.47 4.54	0814 2032	0.24 0.23
15	0152 1410	4.56 4.63	0836 2052	0.30 0.28	0216 1428	4.60 4.67	0850 2106	0.21 0.19
16	0225 0438	4.68 4.72	0909 2123	0.26 0.24	0243 1456	4.72 4.76	0923 2137	0.17 0.15

EXPLANATORY NOTES:

- Heights are given in metres, times are BST or "A" time.
- To find time during which water is over 3 m at TERNEUZEN on 28 Oct 44
 High tide 1138 hrs
 Interval 4 hrs 0 mins; divide by 2 equals 2 hrs.
 Time 1138 minus 2 to 1138 plus 2 equals 0938 to 1338
- WEST and RODEKERENSKENKE show the levels of the water in the sloughs of the tide, EAST shows the levels.
- All times are interpolated; limit of error plus or minus 5 mins.
- Zero height taken from steel rod on sluice at KATTENDIJK, ANTWERP.

SLIPPERY ROCK

TURN MOUNT

ROCKY MOUNTAIN

water

Average time interval water over
 3 m 2 m 1 m
 4 hrs 6 hrs 8 hrs
 0 mins 10 mins 30 mins

Average time interval water over
 4 m 3 m 2 m 1 m
 2 hrs 4 hrs 6 hrs 8 hrs
 10 mins 5 mins 20 mins 40 mins

Dates	High Water		Low Water		High Water		Low Water	
	Time	Height	Time	Height	Time	Height	Time	Height
22	0506 1726	4.62 4.54			0524 1744	4.66 4.58	1159	0.09
23	0545 1808	4.50 4.40	0000 1217	0.20 0.25	0603 1826	4.54 4.44	0014 1231	0.13 0.16
24	0632 1900	4.33 4.20	0036 1256	0.31 0.34	0650 1918	4.37 4.24	0050 1310	0.22 0.25
25	0729 2006	4.11 3.97	0118 1345	0.42 0.47	0747 2024	4.15 4.01	0132 1359	0.33 0.38
26	0849 2139	3.93 3.91	0222 1509	0.49 0.47	0907 2157	3.97 3.95	0236 1523	0.40 0.38
27	1019 2300	3.97 4.06	0354 1645	0.46 0.36	1037 2318	4.01 4.10	0408 1659	0.37 0.27
28	1138	4.17	0535 1817	0.28 0.18	1156	4.21	0549 1831	0.19 0.09
29	0013 1238	4.30 4.42	0654 1920	0.11 0.03	0031 1256	4.34 4.46	0708 1934	-0.02 -0.06
30	0100 1322	4.52 4.62	0747 2012	0.01 -0.02	0118 1340	4.56 4.66	0801 2026	-0.08 -0.11
31	0141 1400	4.75 4.83	0836 2058	-0.03 -0.02	0159 1418	4.79 4.87	0850 2112	-0.12 -0.11
1	0216 1431	4.92 5.00	0918 2131	-0.02 0.15	0234 1449	4.96 5.04	0932 2155	-0.11 0.06
2	0253 1514	4.99 5.03	0954 2212	0.17 0.18	0311 1532	5.03 5.07	1008 2226	0.08 0.09
3	0342 1602	4.97 4.96	1035 2254	0.22 0.25	0400 1620	5.01 5.00	1049 2308	0.13 0.16
4	0427 1650	4.87 4.82	1113 2331	0.28 0.31	0445 1708	4.91 4.86	1127 2345	0.19 0.22
5	0516 1741	4.70 4.61	1151	0.34	0534 1759	4.74 4.65	1205	0.25
6	0606 1835	4.46 4.35	0011 1230	0.30 0.42	0626 1853	4.50 4.39	0025 1244	0.27 0.33
7	0703 1933	4.23 4.13	0052 1316	0.45 0.50	0721 1951	4.27 4.17	0106 1330	0.36 0.41

TIDE TABLE

WOSTERSCHIEDL

HANSWEERT

MAARDE

Average time interval water over
 4 m 3 m 2 m 1 m
 2 hrs 4 hrs 6 hrs 8 hrs
 20 mins 10 mins 15 mins 12 mins

Average time interval water over
 4 m 3 m 2 m 1 m
 2 hrs 4 hrs 6 hrs 8 hrs
 30 mins 14 mins 22 mins 50 mins

Date	Time	High Water		Time	Low Water		Date	Time	High Water		Low Water	
		Time	Height		Time	Height			Time	Height	Time	Height
22	0541	4.70					22	0550	4.79			
	1801	4.62		1213	0.00			1810	4.71		1229	0.17
23	0620	4.58		0028	0.04			0029	4.67		0044	0.21
	1843	4.48		1245	0.07			1852	4.57		1301	0.24
24	0707	4.41		0104	0.13			0716	4.50		0120	0.30
	1935	4.28		1324	0.16			1944	4.37		1340	0.33
25	0804	4.19		0146	0.24			0813	4.28		0202	0.41
	2041	4.05		1413	0.29			2050	4.14		1429	0.46
26	0924	4.01		0250	0.31			0933	4.10		0306	0.48
	2214	3.99		1737	0.29			2223	4.08		1753	0.46
27	1054	4.05		0422	0.28			1063	4.14		0438	0.45
	2335	4.14		1713	0.18			2344	4.23		1729	0.35
28				0603	0.10						0619	0.27
	1213	4.25		1845	0.00			1222	4.34		1901	0.17
29	0048	4.38		0722	-0.07			0057	4.47		0738	0.10
	1313	4.50		1948	-0.15			1322	4.59		1004	0.02
30	0135	4.60		0815	-0.17			0144	4.69		0831	0.00
	1357	4.70		2040	-0.20			1406	4.79		2056	-0.03
31	0216	4.83		0904	-0.21			0225	4.92		0920	-0.04
	1435	4.91		2126	-0.20			1444	5.00		2142	-0.03
1	0251	5.00		0946	-0.20			0300	5.09		1002	-0.03
	1506	5.08		2159	-0.03			1515	5.17		2215	0.14
2	0328	5.07		1022	-0.01			0337	5.16		1038	0.16
	1549	5.11		2240	0.00			1558	5.20		2256	0.17
3	0417	5.05		1103	0.04			0426	5.14		1119	0.21
	1637	5.04		2322	0.07			1646	5.13		2338	0.24
4	0502	4.95		1141	0.10			0511	5.04		1157	0.27
	1725	4.90		2359	0.13			1734	4.99			
5	0551	4.78		1219	0.16			0600	4.87		0015	0.30
	1816	4.69						1825	4.78		1235	0.33
6	0643	4.54		0039	0.18			0652	4.63		0055	0.35
	1910	4.43		1258	0.24			1919	4.52		1314	0.41
7	0738	4.31		0129	0.27			0747	4.40		0136	0.44
	2008	4.21		1344	0.32			2017	4.30		1400	0.49
8	0843	4.05		0212	0.36			0852	4.14		0228	0.53
	2115	4.00		1447	0.42			2124	4.09		1503	0.59

HANSLOERT

WAARDE

Average time interval water over
 1 m 3 m 2 m 1 m
 2 hrs 4 hrs 6 hrs 8 hrs
 20 mins 10 mins 15 mins 40 mins

Average time interval water over
 4 m 3 m 2 m 1 m
 2 hrs 4 hrs 6 hrs 8 hrs
 20 mins 14 mins 22 mins 50 mins

DATE	High Water		Low Water		High Water		Low Water	
	Time	Height	Time	Height	Time	Height	Time	Height
NOV 9	0959 2240	3.95 3.96	0522 1601	0.46 0.48	1008 2249	4.04 4.05	0338 1617	0.63 0.65
10	1124 2359	4.00 4.10	0439 1721	0.47 0.45	1133 -	4.09 -	0455 1737	0.64 0.62
11	- 1227	- 4.17	0601 1824	0.41 0.38	0008 1236	4.19 4.26	0617 1840	0.58 0.55
12	0052 1315	4.25 4.35	0703 1921	0.32 0.25	0101 1324	4.34 4.44	0719 1937	0.49 0.42
13	0134 1351	4.41 4.49	0753 2005	0.21 0.15	0143 1400	4.50 4.58	0809 2021	0.38 0.36
14	0205 1418	4.51 4.58	0828 2046	0.15 0.14	0214 1427	4.60 4.67	0844 2102	0.32 0.31
15	0233 1445	4.64 4.71	0904 2150	0.12 0.10	1242 1454	4.73 4.80	0920 2206	0.29 0.17
16	0300 1513	4.76 4.80	0937 2231	0.08 0.06	0309 1522	4.85 4.89	0953 2237	0.25 0.23

EXPLANATORY NOTES:

1. Heights are given in metres, times are BST or "A" time.
2. To find time during which ^{water} is over 3 m at TERNEUZEN on 28 Oct 44:
 High Tide 1138 hrs
 Interval 4 hrs 0 mins; divide by 2 equals 2 hrs.
 Time 1138 hrs minus 2 to 1138 plus 2 equals 0938 to 1338
3. WEST and NORTH-WEST winds raise the levels of the water at all times stages of the tide; EAST winds lower the levels.
4. All times are interpolated; limit of error plus or minus 5 mins.
5. Zero height taken from steel rod on sluice at KATTENDIJK, ANTWERP

T I D E T A B L E S

WESTERSCHELDE

BATH

Average time interval water over

4 m 3 m 2 m 1 m
2 hrs 40 mins 4 hrs 20 mins 6 hrs 35 mins 9 hrs 5 mins

DATE	High Water		Low Water		DATE	High Water		Low Water	
	Time	Height	Time	Height		Time	Height	Time	Height
OCT 22	0603 1823	4.95 4.87	0036 1253	0.05 0.08	NOV 4	0524 1747	5.20 5.15	0002 1221	0.15 0.18
23	0642 1905	4.83 4.73	0108 1325	0.12 0.15	5	0613 1838	5.03 4.94	0039 1259	0.21 0.24
24	0729 1957	4.66 4.53	0144 1404	0.21 0.24	6	0705 1932	4.79 4.68	0119 1338	0.26 0.32
25	0832 2103	4.44 4.30	0226 1453	0.32 0.37	7	0800 2030	4.56 4.46	0200 1424	0.35 0.40
26	0956 2236	4.26 4.24	0330 1617	0.39 0.37	8	0905 2137	4.30 4.25	0252 1527	0.44 0.50
27	1116 2357	4.30 4.39	0502 1753	0.36 0.26	9	1021 2302	4.20 4.21	0402 1641	0.54 0.56
28	- 1235	- 4.50	0643 1925	0.18 0.08	10	1146 -	4.25 -	0519 1801	0.57 0.53
29	0110 1335	4.63 4.75	0802 2028	0.01 -0.07	11	0021 1249	4.35 4.42	0641 1914	0.49 0.46
30	0157 1419	4.85 4.95	0855 2120	-0.09 -0.12	12	0114 1337	4.50 4.60	0743 2011	0.40 0.33
31	0238 1457	5.08 5.16	0944 2206	-0.13 -0.12	13	0156 1413	4.66 4.74	0833 2045	0.29 0.23
NOV 1	0313 1528	5.25 5.33	1026 2239	-0.12 0.05	14	0227 1440	4.76 4.83	0908 2126	0.23 0.22
2	0350 1611	5.32 5.36	1102 2320	0.07 0.08	15	0255 1507	4.89 4.96	0944 2200	0.20 0.18
3	0439 1659	5.30 5.29	1143 -	0.12 -	16	0316 1535	5.01 5.05	1017 2231	0.16 0.14

RHC
II/O
16
SECRET

2DB(G) 5-0
G3 2 Can Inf Div
14 Oct 44

TIDE TABLE
SCHIELDE ESTUARY

9/11/14

1. The hrs are given in legal time (Greenwich Mean Time) the graduation in metres (1 metre equals 1.094 yds or 3.28 ft).
2. The water levels are related to a comparative plan which runs at 2.978 metres above the busk of the Kattendijk lock at ANTWERP. This level coincides closely with the level of the low water tide (spring tide) at OSTEND: such as has been determined by the Belgian General Staff.
3. The wind may have an influence on the level of the tides and consequently upset the present forecast of tide levels. The difference will be important when the winds are high. Generally, the WESTERLY and more especially NW winds raise the levels at high tide and low tide, while the EASTERLY winds cause a lowering.

<u>HIGH TIDE</u>		<u>OCT</u>	<u>LOW TIDE</u>	
<u>Time</u>	<u>Height</u>	<u>Date</u>	<u>Time</u>	<u>Height</u>
2.08	4.85	15	9.19	0.13
14.24	4.91		21.38	0.10
2.38	4.98	16	9.56	0.09
14.51	5.05		22.11	0.06
3.04	5.14	17	10.26	0.06
15.15	5.21		22.40	0.05
3.24	5.29	18	10.54	0.04
15.42	5.33		23.09	0.03
3.55	5.34	19	11.25	0.03
16.11	5.33		23.40	0.03

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