VK 639 B75

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TABLES

SHOWING THE APPROXIMATE

MAGNETIC DIRECTION

AND ORDINARY RATE (AT SPRINGS & NEAPS)

OF THE

TIDAL STREAMS

IN THE DOVER STRAITS,

AND FROM

AN OFFING OF FROM 3' TO 20' OFF 27 POSITIONS

SOUTH COAST OF ENGLAND,

FOR EVERY HALF-HOUR OF THE TIDE AT DOVER;

ALSO

A TABLE TO BE USED FOR CORRECTION, TO BE APPLIED TO SOUNDINGS.

COMPILED BY

S. H. BROWN,

Trinity Youse Pilot, Fondon.

LONDON:

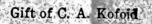
PUBLISHED BY J. D. POTTER,

Sole Agent for the Sale of the Admiralty Charts,

31, POULTRY, E.C., AND 11, KING STREET, TOWER HILL, E.

1894.

PRICE ONE SHILLING.



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REMARKS AND GENERAL DIRECTIONS.

From Beachy Head to Land's End the GENERAL direction is given, and the rate marked in the columns is the rate at Springs and Neaps as a rule; but this rule is subject to alteration by several disturbing causes—such as winds, barometrical pressure, etc.

The velocity is worked out by placing the greatest strength at from 2 to 4 hours after High Water, and also from 2 to 4 hours before High Water, and then graduated down to Slack Water.

At page II will be found Table B, for finding the Height of the Tide at any intermediate hour between High and Low Water, which correction is to be applied to Soundings.

Anywhere between the Lizard and Portland the time of High Water (full and change) is from 5 to 6 o'clock. Whilst East of St. Catherine's it is everywhere High Water between 11 and 12 o'clock, yet in the fairway of the Channel from Start Point to Beachy Head the Tidal Stream turns everywhere almost simultaneously with the time of High and Low Water at Dover; i.e., at about 11 hours it turns Westerly, and at 5 hours it turns Easterly.

Anywhere South of the Shambles, 2' outside of St. Alban's Head, 2' South of St. Catherine's Point, or 4' to 5' South of Owers Lightship, a vessel is not materially affected by indraught on either tide.

There is generally an indraught to all Bays and Bights, and in them the stream turns earlier than in the offing, sometimes as much as two hours earlier.

Each end of Dover Strait (W. of Beachy Head and N. of North Foreland) the stream sets uniformly towards the Strait whilst the water is rising at Dover, and away from it when it is falling.

Strong winds accelerate and prolong the stream running in the same direction, retard the opposing stream, and also affect the height of tides. The atmospheric pressure also affects the tides, especially the rising and falling.

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AFTER HIGH WATER at DOVER.

	1 H	our.	1 н	our.	11 H	ours	2 Hours.		
Names of Places.	DIRECTION.	RATE IN KNOTS.	DIRECTION.	RATE IN KNOTS.	DIRECTION.	RATE IN KNOTS.	DIRECTION.	RATE IN KNOTS.	
Tongue Lt. V	NW byW	TO $\frac{1}{2}$ $-2\frac{1}{4}$	NW	TO 12	NW	TO O-1½	N	TO 0-1½	
E. Margate Buoy	NW by N	o- ½	N	Slack	Ebb	Begins	ΝE	1/2I	
No. Sd. Hd. Lt. V	N NE	$\frac{1}{2}$ - 2	N NE	3 —3	N NE	1—3	N NE	13	
Elbow Buoy	N NE	1-2	N NE	$\frac{3}{4}$ - 3	N NE	1-3	N NE	т—3	
E. Goodwin Lt. V	ΝE	1 -3	ΝE	1 2-4	ΝE	1-41/2	ΝE	1-54	
Gull Lt. V	NE ĮN	$\frac{3}{4}$ $-2\frac{1}{4}$	NE ₫N	1-21	NE ½N	11-21	NE ½N	14-3	
So. Sd. Hd. Lt. V	ΝE	$1\frac{1}{2}$ —3	ΝE	1 3 —3	ΝE	1 3 —3	ΝE	$1\frac{3}{4}-2\frac{1}{2}$	
Off S. Foreland, 1'S SE	NE by E	ı 1 — 3	NE by E	1 3 —3	NE by E	13-3	NE by E	$1\frac{3}{4}$ — $2\frac{1}{2}$	
Varne Lt. V	ENE	1—2	E NE	11-3	ENE	14-3	ENE	I 1 -2 1	
Dungeness to 15' offing	ENE	2-3	E NE	2—3	E NE	$1\frac{1}{2}$ $-2\frac{1}{2}$	ENE	1-2	
Hastings to 15' offing	E	1/2-I	E	1/2-I	Slack	0-0	Separate	00	
Royal Sovereign Lt. V.	Slack	00	W	1-1	W	1-3	W	3-14	
Beachey Hd. to 15' offing	W	$0-\frac{1}{2}$	W	$\frac{3}{4}$ —1 $\frac{1}{2}$	W	1-13	W	1-2	
Brighton 3' to 15' offing	W	0-1	W	II 3	W	1-1	W	1—2	
Owers Lt. V. 5' to 15' offg.	W by S	0-1/2	W by S	$\frac{1}{2}$ — $1\frac{1}{2}$	W by S	1-2	W by S	$1\frac{1}{2}-2\frac{1}{2}$	
St. Cath. bear. NW by W 8	W by N	1-2	W by N	2—3	W by N	2-4	W by N	2-4	
St Cath. bear. E by N 5	NW byW	1-1	NW byW	1—2	NW byW	1-2	NW by W	2-3	
St. Catherine's 5' to 15'off.	WNW	0-1	W NW	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WNW	1-2	W NW	$1\frac{1}{2}$ — $2\frac{1}{2}$	
Anvil Pt. 2' to 15' offing	WNW	$0 - \frac{1}{2}$	WNW	$\frac{1}{2}$ — $1\frac{1}{2}$	W NW	1-2	WNW	$1\frac{1}{2}-2\frac{1}{2}$	
Portland 2' to 15' offing	WNW	0-1/2	WNW	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WNW)-2	w nw	$1\frac{1}{2}-2\frac{1}{2}$	
Start Pt. bear.W NW 20'	W	o—1	W	0-1	W	1 2 1	W	1-1½	
Start Pt. 4' off shore	W	$1\frac{1}{4}$ 2 $\frac{1}{2}$	w	11-22	- W	11-21	W	1-2	
Start Pt. 5' to 15' offing	W	0—1	W	0-1	W	1/2 J	W	11 ¹ / ₂	
Eddystone bear. E by N 7	WNW	$\frac{1}{4} - \frac{1}{2}$	w nw	1-1	W N W	1-1	W NW	1-1	
Eddystone to 15' offing	W	1-12	W	1-1	W	1-1	W	1-1	
Lizard to 20' SE offing	w	1 - I	Ŵ	1 - I	W	1	WNW	<u>1</u> → 1	
Lands End to 20' offing	W	1-12	W by N	1-1	WNW	Slack	Turning	0-0	
		1	<u>.</u>	1	<u> </u>		· , · · · · ·		

AFTER HIGH WATER at DOVER.

	2₺ н	lours.	3 н	ours.	31 H	ours.	4 Hours.		
Names of Places.	DIRECTION	KNOTS.	DIRECTION	KNOTS.	DIRECTION:	KNOTS	DIRECTION.	RATE IN KNOTS.	
Tongue Lt. V	NE by E	TO 0-1 1/2	ENE	TO 1 2 - 1 3	E by N	TO 1-2	E by N	TO 1—2	
E. Margate Buoy	ENE	1 -1 1 2	Е	3-2	E SE	12	SE by E	I2	
No. Sd. Hd. Lt. V	N NE	1-3	NNE	1-23	N NE	12	NNE	1 1	
Elbow Buoy	NNE	1—3	N NE	1-23	NNE	1-2	NNE	1 I	
E. Goodwin Lt. V	ΝE	1-41	ΝĒ	1-41	ΝE	1-33	ΝE	1—3	
Gull Lt. V	NE ½N	11-3	NE ½N	11-23	NE ½N	3-21	NE ½N	<u></u> }—2	
So. Sd. Hd. Lt. V	ΝE	1-2	ΝE	I2	ENE	1 <u>2</u> —1	E NE	1 I	
Off S. Foreland, 1'S SE	NE by E	I-2	NE by E	I-2	NE by E	1 <u>2</u> —1	W SW	Turnin	
Varne Lt. V	ENE	1-2	ENE	$\frac{3}{4}$ — I $\frac{1}{2}$	E NE	1/2-I	ENE	0-1	
Dungeness to 15' offing	ENE	1 I	ENE	Slack	w sw	begins	w sw	1 1 1	
Hastings to 15' offing	Slack	0-0	W	1 1 1	W	1 - I	W	3-I	
Royal Severeign Lt. V.	W	$\frac{3}{4}$ — $1\frac{1}{2}$	W	$\frac{3}{4}$ — $1\frac{3}{4}$	W	$\frac{3}{4}$ —1 $\frac{1}{2}$	W	3-1	
Beachey Hd. to 15' offing	W	1—2	W	1-2	W	1—2	W	1—2	
Brighton 3' to 15' offing	W	1-2	W	1-2	W	1-13	W	1-1	
Owers Lt. V. 5' to 15' offg.	W by S	$1\frac{1}{2}-2\frac{1}{2}$	W by S	$1\frac{1}{2}$ — $2\frac{1}{2}$	W by S	113	W by S	11	
St. Cath. bear. NW by W 8'	W by N	3-5	W by N	35	W by N	2-4	W by N	13	
St Cath. bear. E by N 5'	${ m NW}$ by ${ m W}$	2-4	NW by W	2—4	NW by W	2-4	${ m NW}$ by ${ m W}$	2-3	
St. Catherine's 5' to 15'off.	W NW	I 1/2 2 1/2	WNW	$1\frac{1}{2}-2\frac{1}{2}$	W NW	I-1 1 1 2	WNW	I—I	
Anvil Pt. 2' to 15' offing	WNW	I ½-2½	WNW	$1\frac{1}{2}-2\frac{1}{2}$	W NW	I I ½	W NW	1—1	
Portland 2' to 15' offing	WNW	$1\frac{1}{2}$ — $2\frac{1}{2}$	WNW	112-21	WNW	I I 1/2	WNW	II	
Start Pt. bear.W NW 20'	W	11 ½	W	J — I ½	W	1-112	W	1 I	
Start Pt. 4' off shore	W	I—2	W	1-2	W	I-2	W	1/2-1	
Start Pt. 5' to 15' offing	W	I—I ½	W	1-11	W	1-13	W	<u>1</u> -1	
Eddystone bear. E by N 7'	WNW	Weak	E SE	begins	E SE	Weak	E SE	1-1	
Eddystone to 15' offing	W	1-1	W by S	1-1	SW	Weak	Slack	0-0	
Lizard to 20' SE offing	W	1-1	W	1-1	W	Weak	Slack	0-0	
Lands End to 20' offing	NW	Slack	N	1-1	NE	1-1	Е	1-1	

AFTER HIGH WATER at DOVER.

	. 4 ½ н	ours.	5 н	ours.	5 ½ H	ours.	6 Hours.		
Names of Places.	DIRECTION.	RATE IN KNOTS.	DIRECTION,	RATE IN KNOTS.	DIRECTION.	RATE IN KNOTS.	DIRECTION.	RATE IN KNOTS.	
Tongue Lt. V	E	то 1—3	E	TO I—2½	E by S	TO 3/4-21	E by S	TO 3 2	
E. Margate Buoy	SE	1-2	SE	$\frac{3}{4}$ - 2	S SE	1 1 ½	SSE	<u>1</u> —1	
No. Sd. Hd. Lt. V	N NE	$\frac{1}{2}$ $-1\frac{1}{2}$	NNE	<u>}</u> —I	Slack	00	SSW	1 —-1 1	
Elbow Buoy	N NE	$\frac{1}{2}$ — $1\frac{1}{2}$	N NE	1 1	Slack	о—о	ssw	4 1 4	
E. Goodwin Lt. V	NΕ	1 3	ΝE	0-2	Slack	о—о	sw	o—1 ½	
Gull Lt. V	NE ½N	ļ—I	Turning	о—о	SW	1I	sw	1-11	
So. Sd. Hd. Lt. V	Slack	0-0	s sw	1-3	SW	<u>1</u> —1	sw	I1 }	
Off S. Foreland, 1' S SE	W SW	$\frac{1}{2} - \frac{3}{4}$	wsw	$\frac{1}{2} - \frac{3}{4}$	w sw	$\frac{1}{2}$ —I	w sw	I—I 3	
Varne Lt. V	Turning	00	w sw	0 -1	w sw	$\frac{1}{2}$ — $r_{\hat{4}}$	wsw	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Dungeness to 15' offing	W SW	1/2-I	w sw	1—2	w sw	$1\frac{1}{2}-2\frac{1}{2}$	w sw	23	
Hastings to 15' offing	W	1-2	W	1-2	W	$\frac{3}{4}$ $-1\frac{1}{2}$	w	1 - r	
Royal Sovereign Lt. V.	W	3 I 1	W	31 1	W	<u>1</u> r	w	0-3	
Beachey Hd. to 15' offing	W	I — I $\frac{3}{4}$	W	312	W	0-1	E	begins	
Brighton 3' to 15' offing	W	$\frac{1}{2}$ —I	W	1 1	W	1-3	w	Slack	
Owers Lt. V. 5' to 15' offg.	W by S	1 I	W by S	<u>1</u> —1	W by S	Slack	E	begins	
St. Cath. bear. NW by W8	W by N	1-2	Slack	0-0	W	finishe	E	begins	
St Cath. bear. E by N 5	${ m NW}$ by ${ m W}$	1-2	${ m NW}$ by ${ m W}$	1/2I	Slack	0-0	SE by E	begins	
St. Catherine's 5' to 15'off.	WNW	<u>1</u> —1	WNW	1/2-I	Slack	0—0	Е	begins	
Anvil Pt. 2' to 15' offing	WNW	<u>1</u> 1	W NW	1 - I	Slack	0-0	Е	begins	
Portland 2' to 15' offing	WNW	1 1	w nw	1/2-I	Slack	0-0	E	begins	
Start Pt. bear. W NW 20'	W	OI	W	Weak	Slack	00	Ę	begins	
Start Pt. 4' off shore	W	Slack	Е	Making	Е	12	E	12	
Start Pt. 5' to 15' offing	W	o—I	W	Weak	Slack	0-0	Е	begins	
Eddystone bear. E by N 7	E SE	1-1	E SE	112	E SE	<u>‡ }</u>	E SE	1-1	
Eddystone to 15' offing	Turning	0-0	SE	Weak	E SE	1 1	E SE	1-1	
Lizard to 20'SE offing	E	Weak	Е	$\frac{1}{4} - \frac{1}{2}$	Е	1-12	E	1-12	
Lands End to 20 offing.	E	1 1 1 1	E	1 I	Е	1/2 I	E	1 1	

BEFORE HIGH WATER at DOVER.

,	5 ¹ ₂ H	ours.	5 Ho	ours.	4 ½ H	ours.	4 Hours.		
Names of Places.	DIRECTION.	RATE IN KNOTS.	DIRECTION.	RATE IN KNOTS.	DIRECTION.	RATE IN KNOTS.	DIRECTION.	RATE IN KNOTS.	
Tongue Lt. V	E SE	TO 1/2 -2	E SE	TO 1 1/2	SE	TO O-1½	S	TO 0-1	
E. Margate Buoy	S by E	1 I	S by E	1-1	S	Slack	S by W	1 - r	
No. Sd. Hd. Lt. V	ssw	1I	S SW	$\frac{3}{4}$ $-2\frac{1}{2}$	SSW	I21/2	S SW	1-3	
Elbow Buoy	SSW	<u>1</u> —1	s sw	$\frac{3}{4}$ $-2\frac{1}{2}$	S SW	I-21/2	S SW	1—3	
E. Goodwin Lt. V	SW	1 <u>-</u> 1	SW	1-23	SW	14	SW	11-5	
Gull Lt. V	SW	1/2-2	SW ½W	1-23	SW ½W	1—4	SW ½W	11-3	
So. Sd. Hd. Lt. V	SW	112-2	SW	I 1 2 2	SW	11-21	SW	1 1-2	
Off S. Foreland, 1'S SE	w sw	$1\frac{1}{2}$ —2	w sw	I ½-2	w sw	11-21	W SW	11-2	
Varne Lt. V	wsw	$\frac{1}{2}$ —I $\frac{1}{2}$	w sw	3-21	W SW	3 2 1	w sw	1-2	
Dungeness to 15' offing	w sw	2-3	w sw	2—3	w sw	$1\frac{1}{2}$ $-2\frac{1}{2}$	w sw	1-2	
Hastings to 15' offing	W	1I	W	1/2-I	SW	Easy	S	Meeting	
Royal Sovereign Lt. V.	Slack	0-0	Е	1-3	Е	<u>1</u> -1 1	E	1-2	
Beachey Hd. to 15' offing	E	0-1/2	E	$\frac{3}{4}$ $-1\frac{1}{2}$	Е	I—I34	E	1—2	
Brighton 3' to 15' offing	E by S	0-1	E by S	$\frac{3}{4}$ $-1\frac{1}{2}$	E by S	I—13/4	E by S	1-2	
Owers Lt. V. 5' to 15' offg.	E by N	0— <u>1</u>	E by N	$\frac{1}{2}$ —1 $\frac{1}{2}$	E by N	$\frac{1}{2}$ — $1\frac{1}{2}$	E by N	I ½—2	
St. Cath. bear. NW by W 8'	E	1—2	Е	2—4	E	35	E	3-5	
St Cath. bear. E by N 5'	SE by E	<u>1</u> —1	SE by E	1—2	SE by E	1—3	SE by E	2—4	
St. Catherine's 5' to 15'off.	E SE	O-1/2	E SE	$\frac{1}{2}$ — $1\frac{1}{2}$	E SE	1 1 1 1 2	E SE	1 ½ — 2 ½	
Anvil Pt. 2' to 15' offing	E SE	0—1	E SE	$\frac{1}{2}$ — $1\frac{1}{2}$	E SE	$\frac{1}{2}$ —1 $\frac{1}{2}$	E SE	I ½2	
Portland 2' to 15' offing	E SE	$0 - \frac{1}{2}$	E SE	$\frac{1}{2}$ — $I\frac{1}{2}$	E SE	$\frac{1}{2}$ — $1\frac{1}{2}$	E SE	I 1 2 2 1	
Start Pt. bear.W NW 20'	Е	$0 - \frac{1}{2}$	E	<u>1</u> —1	Е	1 1	E	1 I	
Start Pt. 4' off shore	Е	1-2	Е	1—2	Е	I—2½	Е	1—2	
Start Pt. 5' to 15' offing	E	0-1	Е	0-1/2	E	<u>1</u> —1	Е	<u>1</u> —1	
Eddystone bear. E by N 7'	E SE	1-12	E SE	1-12	E SE	1-12	E SE	1-1	
Eddystone to 15' offing	E	1-1	Е	1-1	Е	1-1	Е	1-1	
Lizard to 20' SE offing	E.	<u>1</u> — I	Е	1/2-I	Е	1 1	E by S	11	
Lands End to 20' offing	E by S	1 1/2	E by S	$\frac{1}{4} - \frac{1}{2}$	E by S	$\frac{1}{2}$	Slack	0-0	

BEFORE HIGH WATER at DOVER.

	21 -		9		01 -		2 Hours.		
Names of Places.	3½ H		3 н		2½ H		2 H		
	DIRECTION.	IN KNOTS.	DIRECTION.	IN KNOTS.	DIRECTION.	IN KNOTS.	DIRECTION.	IN KNOTS.	
Tongue Lt. V	w sw	TO O—I,1	W _. SW	TO 1 1 2	W by S	TO 34-2	W by S	$\frac{\text{TO}}{\frac{3}{4}-2}$	
E. Margate Buoy	SSW	1 1 1 1 2	SW	3-2	w sw	1-2	W	I21/2	
No. Sd. Hd. Lt. V	SSW	1-3	S SW	1-21	S SW	1 22	SSW	1-2	
Elbow Buoy	s sw	13	S SW	I21/4	S SW	<u>1</u> -2	SSW	1-2	
E. Goodwin Lt. V	SW	1151	SW	114-4	SW	14-4	SW	1-31/2	
Gull Lt. V	SW ½W	11-3	SW ½W	11-23	SW ½W	I — 2 ½	SW ‡W	1-21	
So. Sd. Hd. Lt. V	SW	1-2	SWbyW	I-2	W by S	$\frac{1}{2}$ — I $\frac{1}{2}$	W by N	1-11	
Off S. Foreland, 1' S SE	W SW	I2	w sw	1—2	w sw	$\frac{1}{2}$ — $I\frac{1}{2}$	w sw	1-14	
Varne Lt. V	w sw	$\frac{1}{2}$ — $I\frac{1}{2}$	w sw	$\frac{1}{2}$ $\frac{3}{4}$	Turning	0-0	ENE	1 3	
Dungeness to 15' offing	W SW	1-2	w sw	<u>1</u> —1	w sw	<u>1</u> —1	ENE	begins	
Hastings to 15' offing	SE	Easy	E SE	1 1 1 4	. E	II ½	Е	I-2	
Royal Sovereign Lt. V.	Е	$1-2\frac{1}{2}$	Е	r3	E	1—3	E	1-21/2	
Beachey Hd. to 15' offing	Е	1—2	Е	1—2	E	1—2	E	1-2	
Brighton 3' to 15' offing	E by S	1-2	E by S	1-2	E by S	1—2	E by S	I2	
Owers Lt. V. 5' to 15' offg.	E by N	$1\frac{1}{2}$ $2\frac{1}{2}$	E by N	$1\frac{1}{2}$ 2 $\frac{1}{2}$	E by N	$\frac{1}{2}$ — I $\frac{1}{2}$	E by N	$\frac{1}{2}$ — $1\frac{1}{2}$	
St. Cath. bear. NW by W 8	Е	3-5	Е	3—5	E	2-4	Е	1—3	
St Cath. bear. E by N 5'	SE by E	2-4	SE by E	2-4	SE by E	2-4	SE by E	2-3	
St. Catherine's 5' to 15'off.	E SE	$1\frac{1}{2}$ $-2\frac{1}{2}$	E SE	$1\frac{1}{2}-2\frac{1}{2}$	E SE	$\frac{1}{2}$ —1 $\frac{1}{2}$	E SE .	$\frac{1}{2}$ — $1\frac{1}{2}$	
Anvil Pt. 2' to 15' offing	E SE	$1\frac{1}{2}$ $-2\frac{1}{2}$	E SE	$1\frac{1}{2}$ — $2\frac{1}{2}$	E SE	$\frac{1}{2}$ $-1\frac{1}{2}$	E SE	½-1½	
Portland 2' to 15' offing	E SE	$1\frac{1}{2}$ — $2\frac{1}{2}$	E SE	$1\frac{1}{2}-2\frac{1}{2}$	E SE	$\frac{1}{2}$ — I $\frac{1}{2}$	E SE	$\frac{1}{2}$ — $1\frac{1}{2}$	
Start Pt. bear.W NW 20'	Е	I-12	E	$1-1\frac{1}{2}$	E	I — I ½	E	$1-1\frac{1}{2}$	
Start Pt. 4' off shore	Е	I21/2	Е	1-2	E	Weak	W	makes	
Start Pt. 5' to 15' offing	E	$\frac{1}{2}$ —I	Ε.	1/2-I	Е	<u>1</u> —1	Е	½—I	
Eddystone bear. E by N 7	E SE	Weak	Slack	0—0	w nw	Weak	WNW	$\frac{1}{4} - \frac{1}{2}$.	
Eddystone to 15' offing	Е	Weak	Slack	o—o	Slack	00	W	begins	
Lizard to 20 SE offing	E by S	Weak	Slack	о—о	Slack	00	W	weak	
Lands End to 26' offing	Slack	00	Turning	00	W by N	Weak	W by N	1-12	

BEFORE HIGH WATER at DOVER.

Name of Process	11 1	Hours.	1 H	our.	1 Ho	our.	At High Water DOVER.		
. Names of Places.	DIRECTIO	KNOTS.	DIRECTION.	RATE IN KNOTS.	DIRECTION.	RATE / IN KNOTS	DIRECTION.	RATE IN KNOTS.	
Tongue Lt. V	W	TO 1-2	W	TO 1-2½	WNW	то 1—3	WNW	$\frac{3}{4} - 2\frac{1}{2}$	
E. Margate Buoy	·· W by N	J 1—2	W NW	3-2	NW by W	$\frac{1}{3}$ — I $\frac{1}{2}$	NW	$\frac{1}{2}$ —1	
No. Sd. Hd. Lt. V.	ssw	1-1	Turning	0-0	NNE	$\frac{1}{2}$ — I	NNE	$\frac{1}{4}$ —1 $\frac{3}{4}$	
Elbow Buoy	ssw	1 -1	Turning	0-0	N NE	} I	N NE	$\frac{1}{2}$ - $1\frac{3}{4}$	
E. Goodwin Lt. V.	sw	1-21	SW	0-2	Turning	00	ΝE	$0-2\frac{3}{4}$	
Gull Lt. V	Turning	g о—о	NE ½N	1-2	NE IN	1-2	NE ½N	1 2 2	
So. Sd. Hd. Lt. V.	Turnin	g o-o	NNE	3 <u>-</u> 1	NE by N	1-2	ΝE	$1\frac{1}{2}$ — $2\frac{3}{4}$	
Off S. Foreland, 1' S S	E Begin	ns o—o	Е	3 <u>-</u> 1	Е	I2	NE by E	$1\frac{1}{2}-2\frac{3}{4}$	
Varne Lt. V	E NE	1 1 1	E NE	3-14	ENE	1-14	ENE	1-1	
Dungeness to 15' offin	g E NE	$\frac{1}{2}$ —I	ENE	1-2	ENE	$1\frac{1}{2}-2\frac{1}{2}$	ENE	23	
Hastings to 15' offing.	E	1—2	Е	I—I ½	E	3-14	E	3-14	
Royal Sovereign Lt.	7. E	1-2	Е	3 <u>-1</u> 1	Е	$\frac{1}{2} - \frac{3}{4}$	Е	$\frac{1}{2} - \frac{3}{4}$	
Beachey Hd. to 15' offin	g E	1-13	Е	$\frac{3}{4}$ — $1\frac{1}{2}$	Е	0-1	W	begin	
Brighton 3' to 15' offin	g E by S	5 1-13	E by S	3-11	Е	Slack	Slack	0-0	
Owers Lt. V. 5' to 15' of	g. E by N	N 1/2-1	E by N	1 - I	Slack	0-0	W	begins	
St. Cath. bear. NW by W	78' E	1-2	E	Weak	Slack	0-0	W by N	1 1 2 I	
St Cath. bear. E by N	5' SE by	E 1-2	SE by E	1 1 1	Slack	0-0	NW byW	begins	
St. Catherine's 5' to 15'	off. ESE	E 1-1	E SE	1 - I	Slack	0-0	W	begins	
Anvil Pt. 2' to 15' offin	g ESE	E 1 1 1	E SE	1 <u>-</u> 1	Slack	0-0	W	begins	
Portland 2' to 15' offin	g ESE	E 1 1-1	E SE	<u>1</u> —1	Slack	0-0	W	begins	
Start Pt. bear.W NW	20' E	1/2-1	Е	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Slack	0-0	W	begins	
Start Pt. 4' off shore	w	1—2	W	1-2	W	1-2	W	11-21	
Start Pt. 5' to 15' offin	g E	1/2-1	Е	0-1	Slack	0-0	W	begins	
Eddystone bear. E by I	17' W NV	V 1-1	w nw	1-1	WNW	1-1	W NW	1-1	
Eddystone to 15' offin	g W	1-1	W	1-1	W	1-1	W	1-1	
Lizard to 20' SE offic	ng W	1-1	W	1-1	W	1-1	W	}—ı	
Lands End to 20' offin	ng W by	S 1-1	W by S	$\frac{1}{2}$ —I	W	1 1 1 1	W	1 - I	

CORRECTION FOR SOUNDINGS.

	To	D0.	VER	RISE OF TIDE-	F	ULL & C	HANGE.
	r	ide	8.	Names of Nearest Place.		SPRINGS.	NEAPS.
Tongue Lt. V	. +	н.	м. 38	Margate	•••	FEET.	FEET.
E. Margate By	. +	o	38	Margate	•••	15	13
No. Sd. Hd. Lt	. +	o	32	Ramsgate		15	12
Elbow By	+	О	32	Ramsgate		15	12
E. Goodwin Lt	. +	o	32	Ramsgate	•••	15	12
Gull Lt	+	О	32	Ramsgate	•••	15	1 2
So. Sd. Hd			0	Dover		19	15
So. Foreland			0	Dover	•••	19	15
Varne Lt		0	5	Folkestone	•••	20	16
Dungeness		О	27	Dungeness	•••	22	19
Hastings		0	19	Hastings	•••	24	17
Royl. Sov. Lt			0	Hastings		24	17
Beachy Hd	. +	0	8	Beachy Hd.		• 20	15
Brighton	. +	О	3	Newhaven	•••	20	15
Owers Lt., V			0	Littlehampton	•••	16	12
St. Catherines		0	52	Atherfield Pt.		8	7
St. Catherines		o	52	Atherfield Pt.		8	7
St. Catherines		О	52	Atherfield	•••	8	7
Anvil Pt		3	0	Needles		7	5
Portland		4	37	Portland	•••	ģ	6
Start Pt. WNW 20'	-	5	4	Start Pt		15	11
Start Pt. 4' off		5	32	Start Pt	•••	15	11
Start Pt. 5' to 15'	-	5	32	Start Pt	•••	15	11
Eddystone W by N $7'$		6	0	Bigbury Bay	•••	16	11
Eddystone 5' to 15'		6	0	Eddystone	•••	16	12
Lizard		6	12	Lizard	•••	14	10
Land's End		6	4 2	Penzance	•••	16	72

TABLE B.—For finding the Height of the Tide at any intermediate hour between High and Low Water.

half level a.		TIME FROM HIGH WATER.																							
bove lean le e Sea.	н.	м.	н.	М.	н.	М.	.11	М.	н.	M.		M. H	1	11.	M.	н.	M.	H.		н.	м.	H.	м.	-	М.
nt ab	0	00	0	30	I	0	I	30	2	0	2	3013	0	3	30	4	0	4	30	5	0	5	30	6	O
Height above half tide or mean level of the Sea.		ADD.									SU:	вт	RA	СT											
Feet.	ít.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.ff	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in,
3	3	O	2	II	2	7	2	1	I	6	0	90	0	0	9	I	6	2	1	2	7	2	11	3	0
4	4	О	3	10	3	6	2	10	2	0	I	00	0	I	0	2	0	2	10	3	6	3	IO	4	О
5	5	0	4	10	4	4	3	6	2	6	I	30	0	I	3	2	6	3	6	4	4	4	10	5	0
6	6	0	5	10	5	2.	4	3	3	0	I	70	0	1	7	3	O	4	3	5	2	5	10	6	0
7	7	0	6	9	6	I	4	11	3	6	I	100	0	I	10	3	6	4	II	6	I	6	9	7	0
8	8	0	7	9	6	II,	5	8	4	0	2	10	O	2	I	4	0	5	8	6	II	7	- 9	8	O
9	9	О	8	8	7	9	6	4	4	6	2	40	0	2	4	4	6.	6	4	7	9	8	8	9	O
10	IO	0	9	8	8	8,	7	1	5	0	2	70	0	2	7	5	0	7	I	8	8	9	- 8	ю	O
11	ΙI	o	10	8	9	6	7	9	5	6	2	10.0	0	2	10	5	6	7	$-\mathbf{q}^{\parallel}$	9	6	10	8	ΙI	0
12	12	0	ΙI	7	10	5	8	6	6	0	3	10	o	3	I	6	0	8	-	10	5		7	12	0
13	13	0	12	7	ΙI	3	9	2	6	6	3	40	o	3	4	6	6	Q		II		12	7	13	0
14	14	О	13	6	12	I	9	11	7	0	3	70	Ο,	3	7	7	O	9	II	12	I	13	6	14	o

RULE.—Find the time of High Water at the Ship by applying the corrections of the nearest place according to the sign, making Dover the standard Port of reference and using Greenwich mean time.

From the height of the rise of tide at the nearest place to the Ship (deciding whether it be Spring Tide or Neap, or something between the two), SUBTRACT half the height of the Spring Tide at the place. The remainder will be the Height above Half-tide, with which enter Table B, 1st column, and under Time from High Water take out the corresponding correction, and, as directed, add it to or subtract it from half the height of Spring Tide at the place. The result will be the approximate Height of the Tide, at that time, above ordinary Low Water Spring Tide soundings marked on the Channel Charts, and to which sounding the correction must be added.

EXAMPLES.

Required-The Correction off the Eddystone at 2 o'clock Greenwich mean time.

HRS. MIN.

Correction for Eddystone6 o Time of H.W. at Ship o o Time of H.W. at Ship o o Time from H.W 2 o RISE OF TIDE AT THE NEAREST PLACE (p. 10) NEAPS 12 FT. Height of Rise of Tide at nearest place	H.W. at Dover (say)	6			e at Ship				0
RISE OF TIDE AT THE NEAREST PLACE (p. 10) NEAPS 12 FT. Height of Rise of Tide at nearest place	Correction for Eddystone	6	0	Time of 1	H.W. at Ship		• •	0	О
Height of Rise of Tide at nearest place	Time of H.W. at Ship	0	0	Time fro	om H.W.	••		2	0
Height of Rise of Tide at nearest place	RISE OF TIDE	AT THE	NEARES	T PLACE	(p. 10) NE	APS	12 FT.		
Half the height of Spring Tide (16 ft.)8 o 1st column of Table B and under									
Half the height of Spring Tide (16 ft.)8 o 1st column of Table B and under	Height of Rise of Tide at ne	earest place		12 0					
1st column of Table B and under	Half the height of Spring Ti	de (16 ft.)		- 8 0					
2 hours from H.W gives Correction + 2 0 Half the height of Spring Tide (16)	The state of the s	(33 311)	**						
10 O Correction to be added to the	2 hours from H.W	gives	Correction	+ 2 0	height abo	ve E	Ialf-ti	de.	
	· · · · · · · · · · · · · · · · · · ·	40 (20)		**	Correction	to b		d 40	tho
sounding marked on the Chart.				10 0					
					sounding	marke	ea on t	ne C	nart.

Required-The Correction off Beachy Head at 1 o'clock Greenwich mean time,

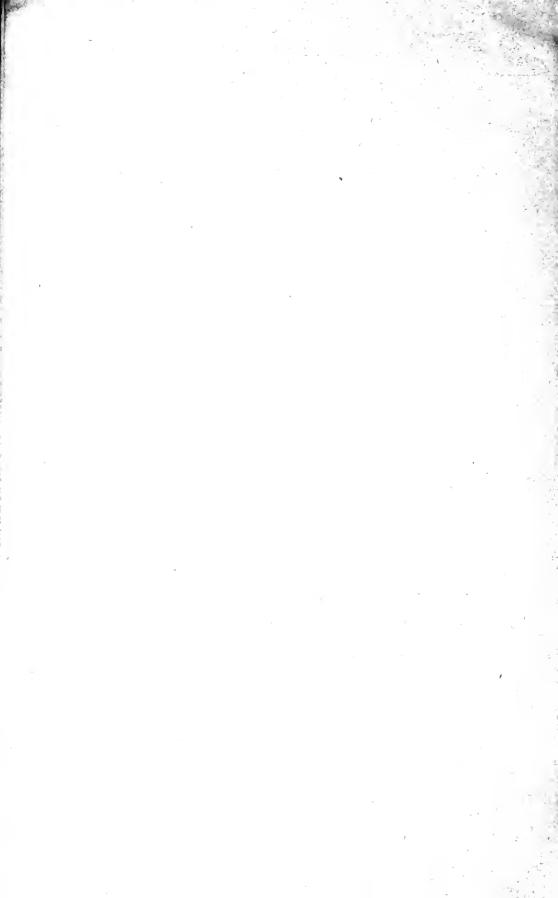
H.W. at Dover (say) Correction for Beachy (p. 10)		HRS. II + o	0	Mean time at Ship Time of H.W. at Ship	••	HRS.	0
Time of H.W. at Ship	••	11	8	Time from H.W	••	I	52

RISE OF TIDE AT THE NEAREST PLACE (p. 10) SPRINGS 20 FT.

2 hours from H.W gives Corre	ction	+ 5	0	
1st column of Table B and under		IO	0	height above Half-tide.
Half the height of Spring Tide (20 ft.)	••	-10	0	
Height of Rise of Tide at nearest place		20	0	

This being the Correction to add to the sounding marked on the Chart.

HRS. MIN.



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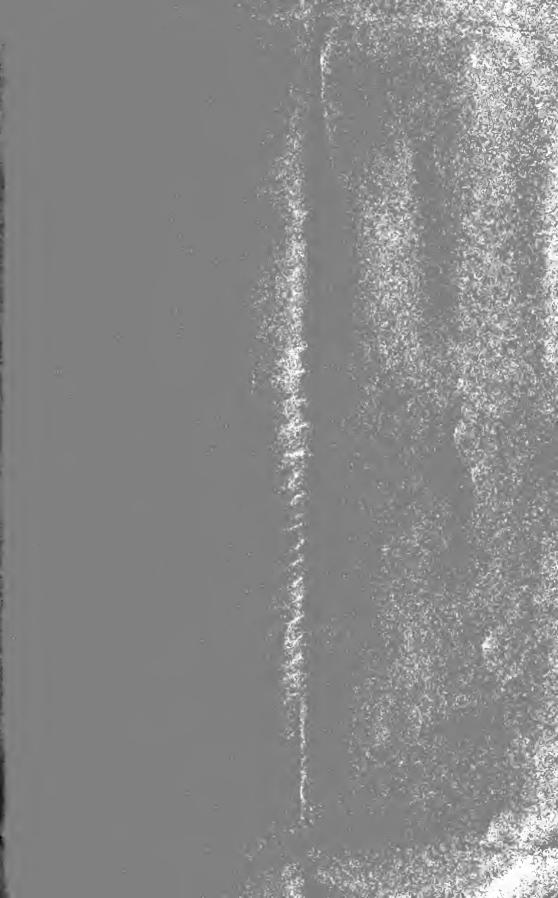
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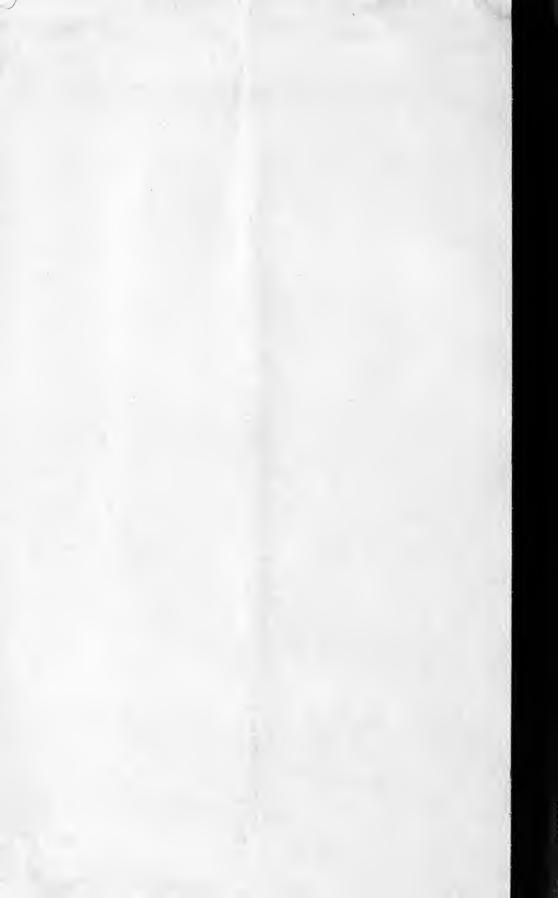
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