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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

ON THE

## 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 House Pilot, London.

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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.

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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 11 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.

B

## AFTER HIGH WATER at DOVER.

| NAMES OF PLACES.               | $\frac{1}{2}$ Hour. |                                 | 1 Hour.            |                                 | $1\frac{1}{2}$ Hours |                                 | 2 Hours.           |                                 |
|--------------------------------|---------------------|---------------------------------|--------------------|---------------------------------|----------------------|---------------------------------|--------------------|---------------------------------|
|                                | DIRECTION.          | RATE IN KNOTS.                  | DIRECTION.         | RATE IN KNOTS.                  | DIRECTION.           | RATE IN KNOTS.                  | DIRECTION.         | RATE IN KNOTS.                  |
| Tongue Lt. V. ...              | NW by W             | $\frac{1}{2}$ — $2\frac{1}{4}$  | NW                 | $\frac{1}{2}$ — $1\frac{1}{2}$  | NW                   | 0— $1\frac{1}{2}$               | N                  | 0— $1\frac{1}{2}$               |
| E. Margate Buoy ...            | NW by N             | 0— $\frac{1}{2}$                | N                  | Slack                           | Ebb Begins           |                                 | N E                | $\frac{1}{2}$ —1                |
| No. Sd. Hd. Lt. V. ...         | N NE                | $\frac{1}{2}$ —2                | N NE               | $\frac{3}{4}$ —3                | N NE                 | 1—3                             | N NE               | 1—3                             |
| Elbow Buoy ...                 | N NE                | $\frac{1}{2}$ —2                | N NE               | $\frac{3}{4}$ —3                | N NE                 | 1—3                             | N NE               | 1—3                             |
| E. Goodwin Lt. V. ...          | NE                  | $\frac{1}{2}$ —3                | NE                 | $\frac{1}{2}$ —4                | NE                   | 1— $4\frac{1}{2}$               | NE                 | 1— $5\frac{1}{4}$               |
| Gull Lt. V. ...                | NE $\frac{1}{2}$ N  | $\frac{3}{4}$ — $2\frac{1}{4}$  | NE $\frac{1}{2}$ N | 1— $2\frac{1}{2}$               | NE $\frac{1}{2}$ N   | $1\frac{1}{4}$ — $2\frac{1}{2}$ | NE $\frac{1}{2}$ N | $1\frac{1}{4}$ —3               |
| So. Sd. Hd. Lt. V. ...         | NE                  | $1\frac{1}{2}$ —3               | NE                 | $1\frac{1}{4}$ —3               | NE                   | $1\frac{3}{4}$ —3               | NE                 | $1\frac{3}{4}$ — $2\frac{1}{2}$ |
| Off S. Foreland, 1' S SE       | NE by E             | $1\frac{1}{4}$ —3               | NE by E            | $1\frac{3}{4}$ —3               | NE by E              | $1\frac{3}{4}$ —3               | NE by E            | $1\frac{3}{4}$ — $2\frac{1}{2}$ |
| Varne Lt. V. ...               | E NE                | 1—2                             | E NE               | $1\frac{1}{4}$ —3               | E NE                 | $1\frac{1}{4}$ —3               | E NE               | $1\frac{1}{4}$ — $2\frac{1}{4}$ |
| Dungeness to 15' offing        | E NE                | 2—3                             | E NE               | 2—3                             | E NE                 | $1\frac{1}{2}$ — $2\frac{1}{2}$ | E NE               | 1—2                             |
| Hastings to 15' offing...      | E                   | $\frac{1}{2}$ —1                | E                  | $\frac{1}{2}$ —1                | Slack                | 0—0                             | Separate           | 0—0                             |
| Royal Sovereign Lt. V.         | Slack               | 0—0                             | W                  | $\frac{1}{4}$ — $\frac{1}{2}$   | W                    | $\frac{1}{4}$ — $\frac{3}{4}$   | W                  | $\frac{3}{4}$ — $1\frac{1}{4}$  |
| Beachey Hd. to 15' offing      | W                   | 0— $\frac{1}{2}$                | W                  | $\frac{3}{4}$ — $1\frac{1}{2}$  | W                    | 1— $1\frac{3}{4}$               | W                  | 1—2                             |
| Brighton 3' to 15' offing      | W                   | 0— $\frac{1}{2}$                | W                  | 1— $1\frac{3}{4}$               | W                    | 1— $1\frac{1}{4}$               | W                  | 1—2                             |
| Owers Lt. V. 5' to 15' offg.   | W by S              | 0— $\frac{1}{2}$                | 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 by W             | $\frac{1}{2}$ —1                | NW by W            | 1—2                             | NW by W              | 1—2                             | NW by W            | 2—3                             |
| St. Catherine's 5' to 15' off. | W NW                | 0— $\frac{1}{2}$                | W NW               | $\frac{1}{2}$ — $1\frac{1}{2}$  | W NW                 | 1—2                             | W NW               | $1\frac{1}{2}$ — $2\frac{1}{4}$ |
| Anvil Pt. 2' to 15' offing     | W NW                | 0— $\frac{1}{2}$                | W NW               | $\frac{1}{2}$ — $1\frac{1}{2}$  | W NW                 | 1—2                             | W NW               | $1\frac{1}{2}$ — $2\frac{1}{2}$ |
| Portland 2' to 15' offing      | W NW                | 0— $\frac{1}{2}$                | W NW               | $\frac{1}{2}$ — $1\frac{1}{2}$  | W NW                 | 1—2                             | W NW               | $1\frac{1}{2}$ — $2\frac{1}{2}$ |
| Start Pt. bear. W NW 20'       | W                   | 0—1                             | W                  | 0—1                             | W                    | $\frac{1}{4}$ —1                | W                  | 1— $1\frac{1}{2}$               |
| Start Pt. 4' off shore ...     | W                   | $1\frac{1}{4}$ — $2\frac{1}{2}$ | W                  | $1\frac{1}{4}$ — $2\frac{1}{2}$ | W                    | $1\frac{1}{4}$ — $2\frac{1}{2}$ | W                  | 1—2                             |
| Start Pt. 5' to 15' offing     | W                   | 0—1                             | W                  | 0—1                             | W                    | $\frac{1}{2}$ —1                | W                  | 1— $1\frac{1}{2}$               |
| Eddystone bear. E by N 7'      | W NW                | $\frac{1}{4}$ — $\frac{1}{2}$   | W NW               | $\frac{1}{4}$ — $\frac{1}{2}$   | W NW                 | $\frac{1}{4}$ — $\frac{1}{2}$   | W NW               | $\frac{1}{4}$ — $\frac{1}{2}$   |
| Eddystone to 15' offing        | W                   | $\frac{1}{4}$ — $\frac{1}{2}$   | W                  | $\frac{1}{4}$ — $\frac{1}{2}$   | W                    | $\frac{1}{4}$ — $\frac{1}{2}$   | W                  | $\frac{1}{4}$ — $\frac{1}{2}$   |
| Lizard to 20' SE offing        | W                   | $\frac{1}{2}$ —1                | W                  | $\frac{1}{2}$ —1                | W                    | $\frac{1}{2}$ —1                | W NW               | $\frac{1}{2}$ —1                |
| Lands End to 20' offing        | W                   | $\frac{1}{4}$ — $\frac{1}{2}$   | W by N             | $\frac{1}{4}$ — $\frac{1}{2}$   | W NW                 | Slack                           | Turning            | 0—0                             |



## AFTER HIGH WATER at DOVER.

| NAMES OF PLACES                | 2½ Hours.  |                | 3 Hours.   |                | 3½ Hours.  |                | 4 Hours.   |                |
|--------------------------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
|                                | DIRECTION. | RATE IN KNOTS. | DIRECTION. | RATE IN KNOTS. | DIRECTION. | RATE IN KNOTS. | DIRECTION. | RATE IN KNOTS. |
| Tongue Lt. V. ...              | NE by E    | 0—1½           | E NE       | ½—1½           | E by N     | 1—2            | E by N     | 1—2½           |
| E. Margate Buoy ...            | E NE       | ½—1½           | E          | ¾—2            | E SE       | 1—2            | SE by E    | 1—2½           |
| No. Sd. Hd. Lt. V. ...         | N NE       | 1—3            | N NE       | 1—2¾           | N NE       | 1—2            | N NE       | ½—1¾           |
| Elbow Buoy ...                 | N NE       | 1—3            | N NE       | 1—2¾           | N NE       | 1—2            | N NE       | ½—1¾           |
| E. Goodwin Lt. V. ...          | NE         | 1—4½           | NE         | 1—4½           | NE         | 1—3½           | NE         | 1—3½           |
| Gull Lt. V. ...                | NE ½ N     | 1¼—3           | NE ½ N     | 1¼—2¾          | NE ½ N     | ¾—2½           | NE ½ N     | ¼—2            |
| So. Sd. Hd. Lt. V. ...         | NE         | 1—2            | NE         | 1—2            | E NE       | ½—1            | E NE       | ½—1¼           |
| Off S. Foreland, 1' S SE       | NE by E    | 1—2            | NE by E    | 1—2            | NE by E    | ½—1            | W SW       | Turning        |
| Varne Lt. V. ...               | E NE       | 1—2            | E NE       | ¾—1½           | E NE       | ½—1            | E NE       | 0—1            |
| Dungeness to 15' offing        | E NE       | ¼—1            | E NE       | Slack          | W SW       | begins         | W SW       | ½—1            |
| Hastings to 15' offing...      | Slack      | 0—0            | W          | ½—1            | W          | ½—1            | W          | ¾—1¼           |
| Royal Sovereign Lt. V.         | W          | ¾—1½           | W          | ¾—1¾           | W          | ¾—1½           | W          | ¾—1½           |
| 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—1¾           | W          | 1—1¾           |
| Owers Lt. V. 5' to 15' offg.   | W by S     | 1¼—2½          | W by S     | 1½—2½          | W by S     | 1—1½           | W by S     | 1—1½           |
| St. Cath. bear. NW by W 8'     | W by N     | 3—5            | W by N     | 3—5            | W by N     | 2—4            | W by N     | 1—3            |
| St Cath. bear. E by N 5'       | NW by W    | 2—4            | NW by W    | 2—4            | NW by W    | 2—4            | NW by W    | 2—3            |
| St. Catherine's 5' to 15' off. | W NW       | 1½—2½          | W NW       | 1½—2½          | W NW       | 1—1½           | W NW       | 1—1½           |
| Anvil Pt. 2' to 15' offing     | W NW       | 1½—2½          | W NW       | 1½—2½          | W NW       | 1—1½           | W NW       | 1—1½           |
| Portland 2' to 15' offing      | W NW       | 1½—2½          | W NW       | 1½—2½          | W NW       | 1—1½           | W NW       | 1—1½           |
| Start Pt. bear. W NW 20'       | W          | 1—1½           | W          | 1—1½           | W          | 1—1½           | W          | ¼—1            |
| Start Pt. 4' off shore ...     | W          | 1—2            | W          | 1—2            | W          | 1—2            | W          | ½—1            |
| Start Pt. 5' to 15' offing     | W          | 1—1½           | W          | 1—1½           | W          | 1—1½           | W          | ½—1            |
| Eddystone bear. E by N 7'      | W NW       | Weak           | E SE       | begins         | E SE       | Weak           | E SE       | ¼—½            |
| Eddystone to 15' offing        | W          | ¼—½            | W by S     | ¼—½            | SW         | Weak           | Slack      | 0—0            |
| Lizard to 20' SE offing        | W          | ¼—½            | W          | ¼—½            | W          | Weak           | Slack      | 0—0            |
| Lands End to 20' offing        | NW         | Slack          | N          | ¼—½            | NE         | ¼—½            | E          | ¼—½            |

## AFTER HIGH WATER at DOVER.

| NAMES OF PLACES.               | 4½ Hours.  |                | 5 Hours.   |                | 5½ Hours.  |                | 6 Hours.   |                |
|--------------------------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
|                                | DIRECTION. | RATE IN KNOTS. | DIRECTION. | RATE IN KNOTS. | DIRECTION. | RATE IN KNOTS. | DIRECTION. | RATE IN KNOTS. |
| Tongue Lt. V. ...              | E          | 1—3            | E          | 1—2½           | E by S     | ¾—2¼           | E by S     | ¾—2            |
| E. Margate Buoy ...            | SE         | 1—2            | SE         | ¾—2            | S SE       | ½—1½           | S SE       | ½—1            |
| No. Sd. Hd. Lt. V. ...         | N NE       | ½—1½           | N NE       | ¼—1            | Slack      | 0—0            | S SW       | ¼—1¼           |
| Elbow Buoy ...                 | N NE       | ¼—1½           | N NE       | ¼—1            | Slack      | 0—0            | S SW       | ¼—1¼           |
| E. Goodwin Lt. V. ...          | NE         | ½—3            | NE         | 0—2            | Slack      | 0—0            | SW         | 0—1½           |
| Gull Lt. V. ...                | NE ½N      | ¼—1            | Turning    | 0—0            | SW         | ¼—1            | SW         | ½—1½           |
| So. Sd. Hd. Lt. V. ...         | Slack      | 0—0            | S SW       | ¼—¾            | SW         | ½—1            | SW         | 1—1¼           |
| Off S. Foreland, 1' S SE       | W SW       | ½—¾            | W SW       | ½—¾            | W SW       | ½—1            | W SW       | 1—1½           |
| Varne Lt. V. ...               | Turning    | 0—0            | W SW       | 0—½            | W SW       | ½—1¼           | W SW       | ½—1¼           |
| Dungeness to 15' offing        | W SW       | ¼—1            | W SW       | 1—2            | W SW       | 1½—2¾          | W SW       | 2—3            |
| Hastings to 15' offing...      | W          | 1—2            | W          | 1—2            | W          | ¾—1¾           | W          | ½—1            |
| Royal Sovereign Lt. V.         | W          | ¾—1¼           | W          | ¾—1¼           | W          | ½—1            | W          | 0—¾            |
| Beachey Hd. to 15' offing      | W          | 1—1¾           | W          | ¾—1½           | W          | 0—½            | E          | begins         |
| Brighton 3' to 15' offing      | W          | ½—1            | W          | ½—1            | W          | ¼—¾            | W          | Slack          |
| Owers Lt. V. 5' to 15' offg.   | W by S     | ¼—1            | W by S     | ½—1            | W by S     | Slack          | E          | begins         |
| St. Cath. bear. NW by W 8'     | W by N     | 1—2            | Slack      | 0—0            | W          | finishes       | E          | begins         |
| St Cath. bear. E by N 5'       | NW by W    | 1—2            | NW by W    | ½—1            | Slack      | 0—0            | SE by E    | begins         |
| St. Catherine's 5' to 15' off. | W NW       | ½—1            | W NW       | ½—1            | Slack      | 0—0            | E          | begins         |
| Anvil Pt. 2' to 15' offing     | W NW       | ½—1            | W NW       | ½—1            | Slack      | 0—0            | E          | begins         |
| Portland 2' to 15' offing      | W NW       | ½—1            | W NW       | ½—1            | Slack      | 0—0            | E          | begins         |
| Start Pt. bear. WNW 20'        | W          | 0—1            | W          | Weak           | Slack      | 0—0            | E          | begins         |
| Start Pt. 4' off shore ..      | W          | Slack          | E          | Making         | E          | 1—2            | E          | 1—2            |
| Start Pt. 5' to 15' offing     | W          | 0—1            | W          | Weak           | Slack      | 0—0            | E          | begins         |
| Eddystone bear. E by N 7'      | E SE       | ¼—½            | E SE       | ¼—½            | E SE       | ¼—½            | E SE       | ¼—½            |
| Eddystone to 15' offing        | Turning    | 0—0            | S E        | Weak           | E SE       | ¼—½            | E SE       | ¼—½            |
| Lizard to 20' SE offing        | E          | Weak           | E          | ¼—½            | E          | ¼—½            | E          | ¼—½            |
| Lands End to 20' offing.       | E          | ½—1            | E          | ½—1            | E          | ½—1            | E          | ½—1            |

## BEFORE HIGH WATER at DOVER.

| NAMES OF PLACES.               | 5½ Hours.  |                | 5 Hours.   |                | 4½ Hours.  |                | 4 Hours.   |                |
|--------------------------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
|                                | DIRECTION. | RATE IN KNOTS. | DIRECTION. | RATE IN KNOTS. | DIRECTION. | RATE IN KNOTS. | DIRECTION. | RATE IN KNOTS. |
| Tongue Lt. V. ... ..           | E SE       | TO<br>½—2      | E SE       | ½—I½           | SE         | TO<br>0—I½     | S          | TO<br>0—½      |
| E. Margate Buoy ...            | S by E     | ½—I            | S by E     | ½—I            | S          | Slack          | S by W     | ½—I            |
| No. Sd. Hd. Lt. V. ...         | S SW       | ½—I            | S SW       | ¾—2½           | S SW       | I—2½           | S SW       | I—3            |
| Elbow Buoy ... ..              | S SW       | ½—I            | S SW       | ¾—2½           | S SW       | I—2½           | S SW       | I—3            |
| E. Goodwin Lt. V. ...          | SW         | ½—I            | SW         | ½—2¾           | SW         | I—4            | SW         | I¼—5¼          |
| Gull Lt. V. ... ..             | SW         | ½—2            | SW ½W      | I—2¾           | SW ½W      | I—4            | SW ½W      | I¼—3           |
| So. Sd. Hd. Lt. V. ...         | SW         | I½—2           | SW         | I½—2           | SW         | I¼—2¼          | SW         | I¼—2¼          |
| Off S. Foreland, 1' S SE       | W SW       | I½—2           | W SW       | I½—2           | W SW       | I¼—2¼          | W SW       | I¼—2¼          |
| Varne Lt. V. ... ..            | W SW       | ½—I½           | W SW       | ¾—2¼           | W SW       | ¾—2¼           | W SW       | ¾—2            |
| Dungeness to 15' offing        | W SW       | 2—3            | W SW       | 2—3            | W SW       | I½—2½          | W SW       | I—2            |
| Hastings to 15' offing...      | W          | ½—I            | W          | ½—I            | SW         | Easy           | S          | Meeting        |
| Royal Sovereign Lt. V.         | Slack      | 0—0            | E          | ¼—¾            | E          | ¼—I¼           | E          | I—2¼           |
| Beachey Hd. to 15' offing      | E          | 0—½            | E          | ¾—I½           | E          | I—I¾           | E          | I—2            |
| Brighton 3' to 15' offing      | E by S     | 0—½            | E by S     | ¾—I½           | E by S     | I—I¾           | E by S     | I—2            |
| Owers Lt. V. 5' to 15' offg.   | E by N     | 0—½            | E by N     | ½—I½           | E by N     | ½—I½           | E by N     | I½—2½          |
| St. Cath. bear. NW by W 8'     | E          | I—2            | E          | 2—4            | E          | 3—5            | E          | 3—5            |
| St Cath. bear. E by N 5'       | SE by E    | ½—I            | SE by E    | I—2            | SE by E    | I—3            | SE by E    | 2—4            |
| St. Catherine's 5' to 15' off. | E SE       | 0—½            | E SE       | ½—I½           | E SE       | ½—I½           | E SE       | I½—2½          |
| Anvil Pt. 2' to 15' offing     | E SE       | 0—½            | E SE       | ½—I½           | E SE       | ¼—I½           | E SE       | I¼—2½          |
| Portland 2' to 15' offing      | E SE       | 0—½            | E SE       | ½—I½           | E SE       | ½—I½           | E SE       | I½—2½          |
| Start Pt. bear. W NW 20'       | E          | 0—½            | E          | ½—I            | E          | ½—I            | E          | ½—I            |
| Start Pt. 4' off shore ...     | E          | I—2            | E          | I—2            | E          | I—2½           | E          | I—2½           |
| Start Pt. 5' to 15' offing     | E          | 0—½            | E          | 0—½            | E          | ¼—I            | E          | ½—I            |
| Eddystone bear. E by N 7'      | E SE       | ¼—¾            | E SE       | ¼—¾            | E SE       | ¼—¾            | E SE       | ¼—¾            |
| Eddystone to 15' offing        | E          | ¼—¾            | E          | ¼—¾            | E          | ¼—¾            | E          | ¼—¾            |
| Lizard to 20' SE offing        | E          | ¼—I            | E          | ¼—I            | E          | ¼—½            | E by S     | ¼—½            |
| Lands End to 20' offing        | E by S     | ¼—½            | E by S     | ¼—½            | E by S     | ½—½            | Slack      | 0—0            |

## BEFORE HIGH WATER at DOVER.

| NAMES OF PLACES.               | 3½ Hours.  |                | 3 Hours.   |                | 2½ Hours.  |                | 2 Hours.   |                |
|--------------------------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
|                                | DIRECTION. | RATE IN KNOTS. | DIRECTION. | RATE IN KNOTS. | DIRECTION. | RATE IN KNOTS. | DIRECTION. | RATE IN KNOTS. |
| Tongue Lt. V. ...              | W SW       | TO<br>0—I½     | W SW       | TO<br>½—I½     | W by S     | TO<br>¾—2      | W by S     | TO<br>¾—2      |
| E. Margate Buoy ...            | S SW       | ½—I½           | SW         | ¾—2            | W SW       | 1—2            | W          | 1—2½           |
| No. Sd. Hd. Lt. V. ...         | S SW       | 1—3            | S SW       | 1—2½           | S SW       | ½—2            | S SW       | ¼—2            |
| Elbow Buoy ...                 | S SW       | 1—3            | S SW       | 1—2½           | S SW       | ½—2            | S SW       | ¼—2            |
| E. Goodwin Lt. V. ...          | SW         | 1½—5½          | SW         | 1¼—4           | SW         | 1¼—4           | SW         | 1—3½           |
| Gull Lt. V. ...                | SW ½W      | 1½—3           | SW ½W      | 1¼—2¾          | SW ½W      | 1—2½           | SW ½W      | ¼—2½           |
| So. Sd. Hd. Lt. V. ...         | SW         | 1—2            | SW by W    | 1—2            | W by S     | ½—1½           | W by N     | ¼—1¼           |
| Off S. Foreland, 1' S SE       | W SW       | 1—2            | W SW       | 1—2            | W SW       | ½—1½           | W SW       | ¼—1¼           |
| Varne Lt. V. ...               | W SW       | ½—1½           | W SW       | ½—¾            | Turning    | 0—0            | E NE       | ½—¾            |
| Dungeness to 15' offing        | W SW       | 1—2            | W SW       | ½—1            | W SW       | ½—1            | E NE       | begins         |
| Hastings to 15' offing...      | SE         | Easy           | E SE       | ¼—1¼           | E          | 1—1½           | E          | 1—2            |
| Royal Sovereign Lt. V.         | E          | 1—2½           | E          | 1—3            | E          | 1—3            | E          | 1—2½           |
| Beachey Hd. to 15' offing      | E          | 1—2            | E          | 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     | 1—2            |
| Owers Lt. V. 5' to 15' offg.   | E by N     | 1½—2½          | E by N     | 1½—2½          | E by N     | ½—1½           | E by N     | ½—1½           |
| St. Cath. bear. NW by W 8      | E          | 3—5            | E          | 3—5            | E          | 2—4            | E          | 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       | 1½—2½          | E SE       | 1½—2½          | E SE       | ½—1½           | E SE       | ½—1½           |
| Anvil Pt. 2' to 15' offing     | E SE       | 1½—2½          | E SE       | 1½—2½          | E SE       | ½—1½           | E SE       | ½—1½           |
| Portland 2' to 15' offing      | E SE       | 1½—2½          | E SE       | 1½—2½          | E SE       | ½—1½           | E SE       | ½—1½           |
| Start Pt. bear. W NW 20'       | E          | 1—1½           | E          | 1—1½           | E          | 1—1½           | E          | 1—1½           |
| Start Pt. 4' off shore ...     | E          | 1—2½           | E          | 1—2            | E          | Weak           | W          | makes          |
| Start Pt. 5' to 15' offing     | E          | ½—1            | E          | ½—1            | E          | ½—1            | E          | ½—1            |
| Eddystone bear. E by N 7       | E SE       | Weak           | Slack      | 0—0            | W NW       | Weak           | W NW       | ¼—½            |
| Eddystone to 15' offing        | E          | Weak           | Slack      | 0—0            | Slack      | 0—0            | W          | begins         |
| Lizard to 20' SE offing        | E by S     | Weak           | Slack      | 0—0            | Slack      | 0—0            | W          | weak           |
| Lands End to 20' offing        | Slack      | 0—0            | Turning    | 0—0            | W by N     | Weak           | W by N     | ¼—½            |

## BEFORE HIGH WATER at DOVER.

| NAMES OF PLACES.               | $1\frac{1}{2}$ Hours. |                                | 1 Hour.            |                                | $\frac{1}{2}$ Hour. |                                  | At High Water.<br>DOVER. |                                      |
|--------------------------------|-----------------------|--------------------------------|--------------------|--------------------------------|---------------------|----------------------------------|--------------------------|--------------------------------------|
|                                | DIRECTION.            | RATE<br>IN<br>KNOTS.           | DIRECTION.         | RATE<br>IN<br>KNOTS.           | DIRECTION.          | RATE<br>IN<br>KNOTS.             | DIRECTION.               | RATE<br>IN<br>KNOTS.                 |
| Tongue Lt. V. ...              | W                     | TO<br>1-2                      | W                  | TO<br>1-2 $\frac{1}{2}$        | W NW                | TO<br>1-3                        | W NW                     | TO<br>$\frac{3}{4}$ -2 $\frac{1}{4}$ |
| E. Margate Buoy ...            | W by N                | 1-2                            | W NW               | $\frac{3}{4}$ -2               | NW by W             | $\frac{1}{2}$ -1 $\frac{1}{2}$   | NW                       | $\frac{1}{2}$ -1                     |
| No. Sd. Hd. Lt. V. ...         | S SW                  | $\frac{1}{4}$ -1               | Turning            | 0-0                            | N NE                | $\frac{1}{2}$ -1                 | N NE                     | $\frac{1}{4}$ -1 $\frac{3}{4}$       |
| Elbow Buoy ...                 | S SW                  | $\frac{1}{4}$ -1               | Turning            | 0-0                            | N NE                | $\frac{1}{4}$ -1                 | N NE                     | $\frac{1}{2}$ -1 $\frac{3}{4}$       |
| E. Goodwin Lt. V. ...          | SW                    | $\frac{1}{2}$ -2 $\frac{1}{4}$ | SW                 | 0-2 $\frac{1}{4}$              | Turning             | 0-0                              | NE                       | 0-2 $\frac{3}{4}$                    |
| Gull Lt. V. ...                | Turning               | 0-0                            | NE $\frac{1}{2}$ N | $\frac{1}{4}$ -2               | NE $\frac{1}{4}$ N  | $\frac{1}{4}$ -2                 | NE $\frac{1}{2}$ N       | $\frac{1}{2}$ -2                     |
| So. Sd. Hd. Lt. V. ...         | Turning               | 0-0                            | N NE               | $\frac{3}{4}$ -1               | NE by N             | 1-2                              | NE                       | 1 $\frac{1}{2}$ -2 $\frac{3}{4}$     |
| Off S. Foreland, 1' S SE       | E Begins              | 0-0                            | E                  | $\frac{3}{4}$ -1               | E                   | 1-2                              | NE by E                  | 1 $\frac{1}{2}$ -2 $\frac{3}{4}$     |
| Varne Lt. V. ...               | E NE                  | $\frac{1}{2}$ -1               | E NE               | $\frac{3}{4}$ -1 $\frac{1}{4}$ | E NE                | 1-1 $\frac{1}{4}$                | E NE                     | 1-1 $\frac{1}{4}$                    |
| Dungeness to 15' offing        | E NE                  | $\frac{1}{2}$ -1               | E NE               | 1-2                            | E NE                | 1 $\frac{1}{2}$ -2 $\frac{1}{2}$ | E NE                     | 2-3                                  |
| Hastings to 15' offing...      | E                     | 1-2                            | E                  | 1-1 $\frac{1}{2}$              | E                   | $\frac{3}{4}$ -1 $\frac{1}{4}$   | E                        | $\frac{3}{4}$ -1 $\frac{1}{4}$       |
| Royal Sovereign Lt. V.         | E                     | 1-2                            | E                  | $\frac{3}{4}$ -1 $\frac{1}{4}$ | E                   | $\frac{1}{2}$ - $\frac{3}{4}$    | E                        | $\frac{1}{2}$ - $\frac{3}{4}$        |
| Beachey Hd. to 15' offing      | E                     | 1-1 $\frac{3}{4}$              | E                  | $\frac{3}{4}$ -1 $\frac{1}{2}$ | E                   | 0- $\frac{1}{2}$                 | W                        | begins                               |
| Brighton 3' to 15' offing      | E by S                | 1-1 $\frac{3}{4}$              | E by S             | $\frac{3}{4}$ -1 $\frac{1}{2}$ | E                   | Slack                            | Slack                    | 0-0                                  |
| Owers Lt. V. 5' to 15' offg.   | E by N                | $\frac{1}{2}$ -1               | E by N             | $\frac{1}{2}$ -1               | Slack               | 0-0                              | W                        | begins                               |
| St. Cath. bear. NW by W 8'     | E                     | 1-2                            | E                  | Weak                           | Slack               | 0-0                              | W by N                   | $\frac{1}{4}$ -1                     |
| St Cath. bear. E by N 5'       | SE by E               | 1-2                            | SE by E            | $\frac{1}{2}$ -1               | Slack               | 0-0                              | NW by W                  | begins                               |
| St. Catherine's 5' to 15' off. | E SE                  | $\frac{1}{4}$ -1               | E SE               | $\frac{1}{2}$ -1               | Slack               | 0-0                              | W                        | begins                               |
| Anvil Pt. 2' to 15' offing     | E SE                  | $\frac{1}{4}$ -1               | E SE               | $\frac{1}{2}$ -1               | Slack               | 0-0                              | W                        | begins                               |
| Portland 2' to 15' offing      | E SE                  | $\frac{1}{2}$ -1               | E SE               | $\frac{1}{4}$ -1               | Slack               | 0-0                              | W                        | begins                               |
| Start Pt. bear. W NW 20'       | E                     | $\frac{1}{2}$ -1               | E                  | $\frac{1}{4}$ -1               | Slack               | 0-0                              | W                        | begins                               |
| Start Pt. 4' off shore ...     | W                     | 1-2                            | W                  | 1-2                            | W                   | 1-2                              | W                        | 1 $\frac{1}{4}$ -2 $\frac{1}{4}$     |
| Start Pt. 5' to 15' offing     | E                     | $\frac{1}{2}$ -1               | E                  | 0- $\frac{1}{2}$               | Slack               | 0-0                              | W                        | begins                               |
| Eddystone bear. E by N 7'      | W NW                  | $\frac{1}{4}$ - $\frac{1}{4}$  | W NW               | $\frac{1}{4}$ - $\frac{1}{4}$  | W NW                | $\frac{1}{4}$ - $\frac{1}{2}$    | W NW                     | $\frac{1}{4}$ - $\frac{1}{2}$        |
| Eddystone to 15' offing        | W                     | $\frac{1}{4}$ - $\frac{1}{2}$  | W                  | $\frac{1}{4}$ - $\frac{1}{2}$  | W                   | $\frac{1}{4}$ - $\frac{1}{2}$    | W                        | $\frac{1}{4}$ - $\frac{1}{4}$        |
| Lizard to 20' SE offing        | W                     | $\frac{1}{4}$ - $\frac{1}{2}$  | W                  | $\frac{1}{4}$ - $\frac{1}{2}$  | W                   | $\frac{1}{4}$ - $\frac{1}{4}$    | W                        | $\frac{1}{4}$ -1                     |
| Lands End to 20' offing        | W by S                | $\frac{1}{4}$ - $\frac{1}{2}$  | W by S             | $\frac{1}{2}$ -1               | W                   | $\frac{1}{2}$ -1                 | W                        | $\frac{1}{2}$ -1                     |

## CORRECTION FOR SOUNDINGS.

|                            | To DOVER |      | RISE OF TIDE—FULL & CHANGE. |          |        |
|----------------------------|----------|------|-----------------------------|----------|--------|
|                            | Tides.   |      | NAMES OF NEAREST PLACE.     | SPRINGS. | NEAPS. |
|                            | H.       | M.   |                             | FEET.    | FEET.  |
| Tongue Lt. V. ... ..       | +        | 0 38 | Margate ... ..              | 15       | 13     |
| E. Margate By. ... ..      | +        | 0 38 | Margate ... ..              | 15       | 13     |
| No. Sd. Hd. Lt. ... ..     | +        | 0 32 | Ramsgate ... ..             | 15       | 12     |
| Elbow By. ... ..           | +        | 0 32 | Ramsgate ... ..             | 15       | 12     |
| E. Goodwin Lt. ... ..      | +        | 0 32 | Ramsgate ... ..             | 15       | 12     |
| Gull Lt. ... ..            | +        | 0 32 | Ramsgate ... ..             | 15       | 12     |
| So. Sd. Hd. ... ..         | —        | 0    | Dover ... ..                | 19       | 15     |
| So. Foreland ... ..        | —        | 0    | Dover ... ..                | 19       | 15     |
| Varne Lt. ... ..           | —        | 0 5  | Folkestone ... ..           | 20       | 16     |
| Dungeness ... ..           | —        | 0 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 ... ..            | +        | 0 3  | Newhaven ... ..             | 20       | 15     |
| Owers Lt., V. ... ..       |          | 0    | Littlehampton ... ..        | 16       | 12     |
| St. Catherines ... ..      | —        | 0 52 | Atherfield Pt. ..           | 8        | 7      |
| St. Catherines ... ..      | —        | 0 52 | Atherfield Pt. ..           | 8        | 7      |
| St. Catherines ... ..      | —        | 0 52 | Atherfield ..               | 8        | 7      |
| Anvil Pt. ... ..           | —        | 3 0  | Needles ..                  | 7        | 5      |
| Portland ... ..            | —        | 4 37 | Portland ... ..             | 9        | 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 42 | Penzance ... ..             | 16       | 12     |

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

| Height above half<br>Tide or mean level<br>of the Sea. |     | TIME FROM HIGH WATER. |      |       |      |       |      |       |           |       |      |       |      |       |     |       |     |     |    |    |    |    |    |    |   |   |
|--|-----|-----------------------|------|-------|------|-------|------|-------|-----------|-------|------|-------|------|-------|-----|-------|-----|-----|----|----|----|----|----|----|---|---|
|  |     | H. M.                 |      | H. M. |      | H. M. |      | H. M. |           | H. M. |      | H. M. |      | H. M. |     | H. M. |     |     |    |    |    |    |    |    |   |   |
|  |     | 0 00                  | 0 30 | 1 0   | 1 30 | 2 0   | 2 30 | 3 0   | 3 30      | 4 0   | 4 30 | 5 0   | 5 30 | 6 0   |     |       |     |     |    |    |    |    |    |    |   |   |
|  |     | ADD.                  |      |       |      |       |      |       | SUBTRACT. |       |      |       |      |       |     |       |     |     |    |    |    |    |    |    |   |   |
| Feet.  | ft. | in.                   | ft.  | in.   | ft.  | in.   | ft.  | in.   | ft.       | in.   | ft.  | in.   | ft.  | in.   | ft. | in.   | ft. | in. |    |    |    |    |    |    |   |   |
| 3  | 3   | 0                     | 2    | 11    | 2    | 7     | 2    | 1     | 1         | 6     | 0    | 9     | 0    | 0     | 9   | 1     | 6   | 2   | 1  | 2  | 7  | 2  | 11 | 3  | 0 |   |
| 4  | 4   | 0                     | 3    | 10    | 3    | 6     | 2    | 10    | 2         | 0     | 1    | 0     | 0    | 1     | 0   | 2     | 0   | 2   | 10 | 3  | 6  | 3  | 10 | 4  | 0 |   |
| 5  | 5   | 0                     | 4    | 10    | 4    | 4     | 3    | 6     | 2         | 6     | 1    | 3     | 0    | 1     | 3   | 2     | 6   | 3   | 6  | 4  | 4  | 4  | 10 | 5  | 0 |   |
| 6  | 6   | 0                     | 5    | 10    | 5    | 2     | 4    | 3     | 3         | 0     | 1    | 7     | 0    | 0     | 1   | 7     | 3   | 0   | 4  | 3  | 5  | 2  | 5  | 10 | 6 | 0 |
| 7  | 7   | 0                     | 6    | 9     | 6    | 1     | 4    | 11    | 3         | 6     | 1    | 10    | 0    | 0     | 1   | 10    | 3   | 6   | 4  | 11 | 6  | 1  | 6  | 9  | 7 | 0 |
| 8  | 8   | 0                     | 7    | 9     | 6    | 11    | 5    | 8     | 4         | 0     | 2    | 10    | 0    | 2     | 1   | 4     | 0   | 5   | 8  | 6  | 11 | 7  | 9  | 8  | 0 |   |
| 9  | 9   | 0                     | 8    | 8     | 7    | 9     | 6    | 4     | 4         | 6     | 2    | 4     | 0    | 2     | 4   | 4     | 6   | 6   | 4  | 7  | 9  | 8  | 8  | 9  | 0 |   |
| 10   | 10  | 0                     | 9    | 8     | 8    | 8     | 7    | 1     | 5         | 0     | 2    | 7     | 0    | 2     | 7   | 5     | 0   | 7   | 1  | 8  | 8  | 9  | 8  | 10 | 0 |   |
| 11   | 11  | 0                     | 10   | 8     | 9    | 6     | 7    | 9     | 5         | 6     | 2    | 10    | 0    | 2     | 10  | 5     | 6   | 7   | 9  | 9  | 6  | 10 | 8  | 11 | 0 |   |
| 12   | 12  | 0                     | 11   | 7     | 10   | 5     | 8    | 6     | 6         | 0     | 3    | 10    | 0    | 3     | 1   | 6     | 0   | 8   | 6  | 10 | 5  | 11 | 7  | 12 | 0 |   |
| 13   | 13  | 0                     | 12   | 7     | 11   | 3     | 9    | 2     | 6         | 6     | 3    | 4     | 0    | 3     | 4   | 6     | 6   | 9   | 2  | 11 | 3  | 12 | 7  | 13 | 0 |   |
| 14   | 14  | 0                     | 13   | 6     | 12   | 1     | 9    | 11    | 7         | 0     | 3    | 7     | 0    | 3     | 7   | 7     | 0   | 9   | 11 | 12 | 1  | 13 | 6  | 14 | 0 |   |

**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. |   |                      | HRS. | MIN. |   |
| H.W. at Dover (say)      | .. | ..   | 6    | 0 | Mean time at Ship    | ..   | 2    | 0 |
| Correction for Eddystone | .. | ..   | —6   | 0 | Time of H.W. at Ship | ..   | 0    | 0 |
| Time of H.W. at Ship     | .. | ..   | 0    | 0 | Time from H.W.       | ..   | 2    | 0 |

**RISE OF TIDE AT THE NEAREST PLACE (p. 10) NEAPS 12 FT.**

|   |    |    |    |     |     |                               |  |
|---|----|----|----|-----|-----|-------------------------------|--|
|   |    |    |    | FT. | IN. |                               |  |
| Height of Rise of Tide at nearest place | .. | .. | .. | 12  | 0   |                               |  |
| Half the height of Spring Tide (16 ft.) | .. | .. | .. | —8  | 0   |                               |  |
| 1st column of Table B and under         | .. | .. | .. | 4   | 0   | height above Half-tide.       |  |
| 2 hours from H.W.                       | .. | .. | .. | + 2 | 0   |                               |  |
| Half the height of Spring Tide (16)     | .. | .. | .. | 8   | 0   |                               |  |
|   |    |    |    | 10  | 0   | Correction to be added to the |  |
|   |    |    |    |     |     | sounding marked on the Chart. |  |

**Required—The Correction off Beachy Head at 1 o'clock Greenwich mean time.**

|                               |    |      |      |   |                      |      |      |    |
|-------------------------------|----|------|------|---|----------------------|------|------|----|
|                               |    | HRS. | MIN. |   |                      | HRS. | MIN. |    |
| H.W. at Dover (say)           | .. | ..   | 11   | 0 | Mean time at Ship    | ..   | 1    | 0  |
| Correction for Beachy (p. 10) | .. | ..   | + 0  | 8 | Time of H.W. at Ship | ..   | —11  | 8  |
| Time of H.W. at Ship          | .. | ..   | 11   | 8 | Time from H.W.       | ..   | 1    | 52 |

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

|   |    |    |    |     |     |   |  |
|---|----|----|----|-----|-----|---|--|
|   |    |    |    | FT. | IN. |   |  |
| Height of Rise of Tide at nearest place | .. | .. | .. | 20  | 0   |   |  |
| Half the height of Spring Tide (20 ft.) | .. | .. | .. | —10 | 0   |   |  |
| 1st column of Table B and under         | .. | .. | .. | 10  | 0   | height above Half-tide.                 |  |
| 2 hours from H.W.                       | .. | .. | .. | + 5 | 0   |   |  |
|   |    |    |    | 15  | 0   | This being the Correction to add to the |  |
|   |    |    |    |     |     | sounding marked on the Chart.           |  |





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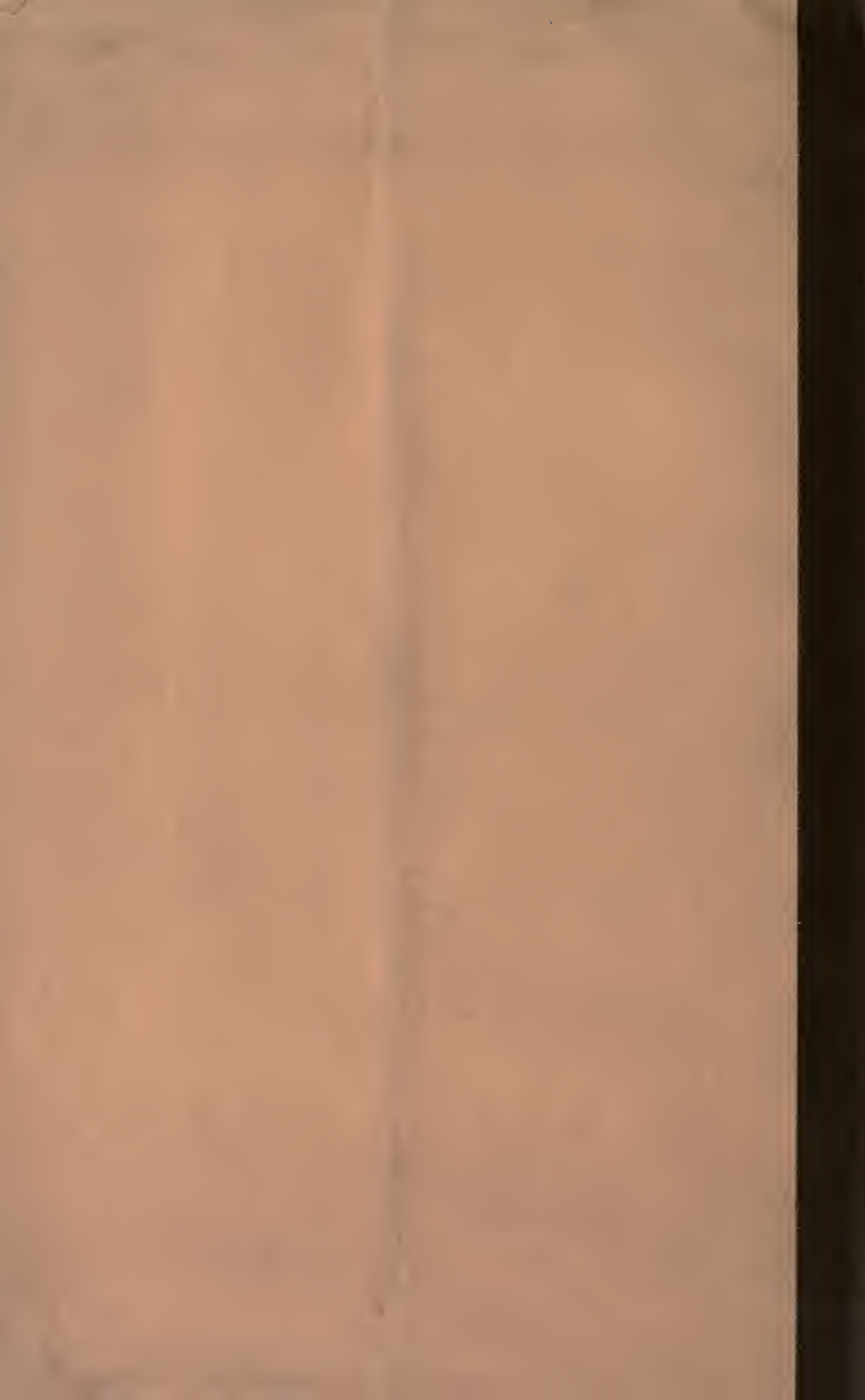
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