PUGSLEY'S DEAD RECKONING INCLUDING THE VARIOUS METHODS OF FINDING COURSE AND DISTANCE

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649515301

Pugsley's Dead Reckoning Including the Various Methods of Finding Course and Distance by R. M. Pugsley

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

R. M. PUGSLEY

PUGSLEY'S DEAD RECKONING INCLUDING THE VARIOUS METHODS OF FINDING COURSE AND DISTANCE

Trieste

PUGSLEY'S DEAD RECKONING

INCLUDING

THE VARIOUS METHODS OF FINDING

COURSE AND DISTANCE

BY

MERCATOR AND MIDDLE LATITUDE

SAILINGS

AN EXAMINATION SPECIALTY

BY

CAPT. R. M. PUGSLEY

Author of "The Pilot," "How to Do the Work," "The Navigator," "Mariner's Guide," "Current-Course Projector," "Course-Protractor," "Learner's Compass Card," "Course Corrector," "Guide to U. S. Local Inspectors Examination of Masters and Mates of Ocean-Going Steam and Sail Vessels," "Pugsley's Tides," etc.

EXPERT INSTRUCTOR IN NAVIGATION

PRICE, $2.00

PUBLISHED BY

R. M. PUGSLEY

17 SOUTH STREET

NEW YORK, U. S. A.

Copyright, 1916, by R. M. PUGSLEY

PREFACE

Usually the separate subjects covered by the term "navigation and nautical astronomy" are too roughly generalized for one to readily understand, the result being a constantly increasing demand for a special work for the use of those wishing to study navigation with the intention of obtaining a U. S. Local Inspectors license.

The selection and arrangement of the various methods and explanations in detail of keeping track of a ship by "dead reckoning" or "account," including Mercator and middle latitude sailings, and use of logarithms are not written from theory alone, but from actual practice, and several years' experience as a nautical instructor, which makes possible the production of this volume for the beginner.

The matter in this volume is arranged in the proper order for study and should not be deviated from as the nature of the problems in the last part is such that they cannot be managed by those without that knowledge contained in the first part. For that reason it is suggested that the usual custom of beginning study in spots in the advanced portion of a book should not be followed.

Bowditch tables have been used throughout and those are referred to where table numbers are mentioned.

R. M. PUGSLEY.

321173

EXPLANATION

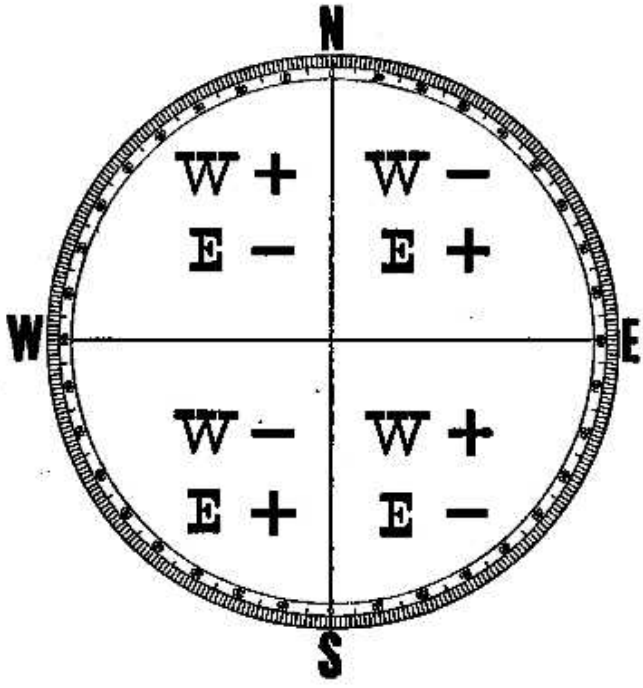
When the compass course is between north and west, it is in the north-west quadrant, the signs indicating that the variation, deviation or compass error, if west, are to be added to the compass course. If east, they are subtractive.

When the compass course is between south and west, it is in the south-west quadrant, the signs indicating that the variation, deviation or compass error, if west, are to be subtracted from the compass course. If east, they are additive.

When the compass course is between south and east, it is in the south-east quadrant, the signs indicating that the variation, deviation or compass error, if west, are to be added to the compass course. If east, they are subtractive.

When the compass course is between north and east, it is in the north-east quadrant, the signs indicating that the variation, deviation or compass error, if west, are to be subtracted from the compass course. If east, they are additive.

The result in any case will be the true course.


N
W
E
S
W +
E −
W −
E +
W −
E +
W +
E −

Examination Specialties

by

CAPT. R. M. PUGSLEY

FOR SALE BY ALL DEALERS

PUGSLEY'S GUIDE, with complete instructions for those who wish to learn navigation and save the expense of attending school by preparing themselves for the U. S. Local Inspectors Examination of Masters and Mates of Ocean-Going Steam and Sailing Ships. **Price, $.200.**

PUGSLEY'S NEW YORK PILOT and Guide to the U. S. Local Inspectors examination of masters and pilots for New York Bay and Harbor, with complete sailing directions from Sandy Hook to Yonkers and Great Captain Island. Covers inland examinations generally. **Price, $2.00.**

PUGSLEY'S TIDES. A special work on computation of times of tides for applicants for U. S. Local Inspectors licenses. Contains full set of problems covering every known condition with detailed explanation for each one. **Price, $2.00.**

PUGSLEY'S DEAD RECKONING. A book specially for the beginner. Contains every step in detail with a great number of problems covering every step in the computation of courses and distances and keeping account of a ship's track. An examination specialty. **Price, $2.00.**

PUGSLEY'S LOG BOOK for yachts and other small vessels; also for ship's officers to record their voyages. Every officer should have one. **Price, $1.00.**

PUGSLEY'S LEARNER'S COMPASS CARD for those who wish to learn the compass. Printed name at every quarter point. **Price, 50 Cents.**

PUGSLEY'S SEAMEN'S RECEIPT BOOK. A proper receipt for money paid for services to a ship by seamen and others. **Price, 25 Cents.**

Any of the above books sent to any address on receipt of price by

CAPT. R. M. PUGSLEY
17 South Street **New York**

MATHEMATICAL SIGNS

+ PLUS. The sign of addition: indicates that the quantity is to be added, as

Lat. left		27°	09′	25″	N.	Long. left	68° 53′ 45″	W.
Dif.	+	2	53	45	N.	Dif.	+ 2 17 45	W.
Lat. ship		30	03	10	N.	Long. ship	71 11 30	W.

— MINUS. The sign of subtraction: indicates that the quantity is to be subtracted, as

Lat. left.		38°	16′	15″	S.	Long. left	35° 22′ 15″	E.
Lat. ship	—	32	28	30	S.	Long. ship	— 33 46 45	E.
Dif.		5	47	45	N.	Dif.	1 35 30	W.

× MULTIPLY. The sign of multiplication: indicates that the quantities are to be multiplied, as

Hourly drift of a current 1¾ mile	= 1′.75
Throughout the day	= × 24h
	700
	350
Drift in one day	= 42′.00

and

	7°	42′	45″				8°	22′	31″		
			× 2						× 3		
Ans.	15	25	30			*Ans.*	25	07	33		

÷ DIVIDE. The sign of division: indicates that the quantity is to be divided, as 63° 15′ 30″ ÷ 2, and is usually written thus:

$$\frac{63^\circ\ 15'\ 30''}{2} \qquad 2\overline{)63^\circ\ 15'\ 30''}$$

Ans. 31 37 45

= EQUALITY. The sign of equality: indicates that the quantities between which it is placed are equal, as in latitude 30°, departure 60′ = difference of longitude 120′.