

RADIO NAVIGATION AIDS, Pub 117

searchable electronic version distributed by starpath school of navigation

Chapter 1 RADIO DIRECTION FINDER AND RADAR STATIONS

PART I RADIO DIRECTION FINDER STATIONS

- 100A. General.
- 100B. Accuracy of Bearings Furnished by Direction Finding Stations
- 100C. Obligations of Administrations Operating Direction Finding Stations
- 100D. Procedure to Obtain Radio Direction Finder Bearings and Positions
- 100E. Plotting Radio Bearings.
- 100F. Radio Bearing Conversion.
- 100G. Direction Finding Station List

PART II RADAR STATIONS

- 110A. Coast and Port Radar Station List

Chapter 2 RADIO TIME SIGNALS

- 200A. General.
- 200B. The United States System
- 200C. The Old International (ONOGO) System
- 200D. The New International (Modified ONOGO) System
- 200E. The English System
- 200F. The BBC System
- 200G. Codes for the Transmission of UTC Adjustments.
- 200H. Shortwave Services Provided by the NIST WWV-WVH Broadcasts
- Station List.

Chapter 3 RADIO NAVIGATIONAL WARNINGS

- 300A. General.
- 300B. Coastal and Local Warnings
- 300C. Long Range Warnings
- 300D. Worldwide Warnings.
- 300E. Worldwide Warnings Message Content
- 300F. Warning Message Format
- 300G. SPECIAL WARNINGS and Broadcast Stations.
- 300H. NAVTEX.
- 300I. U.S. NAVTEX Transmitting Stations
- 300J. Worldwide NAVTEX Transmitting Stations
- 300K. Ice Information
- 300L. Navigational Warning Station List
- 300M. WorldWide Navigational Warning Service NAVAREA Coordinators

Chapter 4 DISTRESS, EMERGENCY, AND SAFETY TRAFFIC

PART I

- 400A. General.
- 400B. Obligations and Responsibilities of U.S. Vessels
- 400C. Reporting Navigational Safety Information to Shore Establishments.
- 400D. Assistance by SAR Aircraft and Helicopters.
- 400E. Reports of Hostile Activities
- 400F. Emergency Position Indicating Radio Beacons (EPIRBs)
- 400G. Global Maritime Distress and Safety System (GMDSS)
- 400H. The Inmarsat System
- 400I. The SafetyNET System
- 400J. Digital Selective Calling (DSC)
- 400K. Instructions for Canceling Inadvertent Distress Alerts

List of Operational VHF DSC Coast Stations for Sea Areas A1.

List of Operational MF DSC Stations for Sea Areas A2

List of Operational HF DSC Stations for Sea Areas A3 and A4

PART II

410A. Requests for U.S. Navy Assistance in Emergency Situations

APPENDIX A Ocean Areas and Command Centers/Communications Facilities

APPENDIX B High Frequencies Guarded by Air Force, Navy, Coast Guard, and Commercial Stations

.

List of Inmarsat Coast Earth Stations

List of Rescue Co-ordination Centers using Ship Earth Stations

Chapter 5 STATIONS TRANSMITTING MEDICAL ADVICE

500A. General

500B. Station List

Chapter 6 LONG RANGE NAVIGATIONAL AIDS

PART I LORAN-C

600A. General.

600B. Operation

600C. Receivers

600D. Station List.

PART II DECCA

610A. General.

610B. Chain Numbers

610C. Accuracy

610D. Fixed Errors

610E. Variable Errors.

610F. Notes

610G. Station List.

PART III SATELLITE NAVIGATION

620A. General.

620B. GPS

620C. DGPS.

620D. GLONASS.

Chapter 7 AUTOMATED MUTUAL-ASSISTANCE VESSEL RESCUE SYSTEM (AMVER)

700A. AMVER Participation Instructions

700B. Communication Methods for Filing AMVER Reports

700C. Special Warnings to Mariners

700D. AMVER Voyage Report Types.

Chapter 8 INTERIM EMERGENCY PROCEDURES AND COMMUNICATION INSTRUCTIONS FOR U.S. MERCHANT SHIPS IN TIMES OF CRISIS, CONFLICT, NATIONAL EMERGENCY OR WAR

PART I

U.S. NAVAL COORDINATION AND PROTECTION OF SHIPPING (NCAPS)

800A. General.

800B. Concept of NCAPS and Naval Control of Shipping (NCS)

800C. Regional Naval Control of Shipping (RNCS)

800D. Full Naval Control of Shipping (FNCS)

800E. Allied Naval Control of Shipping

800F. Interface Between NCSORG and Civil Shipping Authorities Under FNCS.

800F. Questions and Comments

PART II NAVAL CONTROL OF SHIPPING PROCEDURES

- 810A. General.
- 810B. SPECIAL WARNING TO MARINERS and MARAD ADVISORY Messages
- 810C. Instructions for Ships in Friendly or Neutral Ports
- 810D. Instructions for Ships in Enemy Ports or Enemy Waters
- 810E. Instructions for Ships at Sea

PART III COMMUNICATION FACILITIES AND PROCEDURES

- 820A. General.
- 820B. MERCOMMS Implementation
- 820C. Standard Naval Messages and Procedures
- 820D. General Messages to Merchant Ships
- 820E. Watchkeeping on Ships
- 820F. Transmission of Traffic
- 820G. Coastal Shipping Communications
- 820H. Transmission Security
- 820I. Radio Silence
- 820J. Electronic Emission Control (EMCON)
- 820K. Satellite Communications (Inmarsat)
- 820L. Fishing Vessel Communications

PART IV

NUCLEAR FALLOUT WARNING SYSTEM FOR MERCHANT SHIPS AT SEA

- 830A. Significance of NBC Warnings
- 830B. The MERWARN System, Warnings to Merchant Ships at Sea
- 830C. MERWARN Originating and Diversion Authorities
- 830D. Precedence of NBC Messages
- 830E. Method of Promulgation
- 830F. Relay Responsibilities
- 830G. Danger Zones.
- 830H. MERWARN EDM.
- 830I. MERWARN NBC 3 NUC, Standard Format
- 830J. MERWARN NBC 3 NUC, Plain Language Format
- 830K. DIVERTORD Messages
- 830L. Other Warnings
- 830M. Ground Zero.
- 830N. Effective Downwind Direction and Downwind Speed
- 830O. Fallout Pattern Criteria
- 830P. Fallout Plotting in Merchant Ships
- 830Q. Plotting from MERWARN NBC 3 NUC
- APPENDIX A MERCOMMS Area Organization
- APPENDIX B Signal Messages' Addresses and Routing Indicators of Focal Points
- APPENDIX C General Message Organization
- APPENDIX D Instruction to Masters in an Emergency on Defense Against Nuclear Fallout.