

Department of Commerce • National Oceanic & Atmospheric Administration • National Weather Service

NATIONAL WEATHER SERVICE INSTRUCTION 10-2302

APRIL 27, 2014

Operations and Services

MARINE OBSERVATION PROGRAM, NWSPD 10-23

MARINE REPORTING STATIONS

NOTICE: This publication is available at: <http://www.nws.noaa.gov/directives/>.

OPR: W/OPS51 (J.Wasserman)

Certified by: W/OPS5 (H. Portmann)

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SUMMARY OF REVISIONS: This instruction supersedes NWSI 10-2302, Marine Reporting Stations dated November 2, 2009. Changes made: OPR, Certifier, Approving Official, minor revision to sentence 2 and changed address for sending observations. There are no content changes to this policy.

-signed-

Deirdre Reynolds Jones
Acting Director, Office of Operational Services

April 7, 2014

Date

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<u>Table of Contents:</u>	<u>Page</u>
1 General.....	2
2 Introduction.....	2
3 Observation Program.....	2
4 Supervising Station Responsibilities.....	3
5 NWS Regional Responsibilities.....	3
6 National Data Buoy Center Responsibilities.....	3
7 Joint NWS-Coast Guard Responsibilities.....	3

1 General. This instruction describes the MARine Reporting Stations (MARS) at coastal land stations on the immediate coast or on inland bodies of water, (i.e. lakes or rivers) primarily at U.S. Coast Guard (USCG) observation stations with a few volunteer civilian and other government operated MARS stations.

2 Introduction. The marine reporting stations program is a part of the total observation concept. The concept integrates manually observed weather observations and automated weather observations. These elements provide necessary marine observations to meet NWS mission requirements. The NWS utilizes the total observation concept to provide quality forecasts and warnings.

3 Observation Program. MARS observations consist of reports of visually observed elements (i.e., present weather, visibility, wind, and sea conditions). To improve the quality of observations, MARS should at least be equipped with a wind measuring instrument, however where not available, observers should be encouraged to report all weather elements using available equipment and visually observed elements. MARS observers record observations on "Marine Coastal Weather Log-Coastal Station" NOAA Form 72-5a at regular intervals. MARS observers are asked to make special observations when extreme conditions of wind, visibility, and wave conditions are experienced. Observations are transmitted directly to NWS collection points or to Coast Guard stations for radio relay to NWS. Completed observation logs (NOAA Form 72-5a) will be sent to the respective MARS supervising station at the end of each month.

4 Supervising Station Responsibilities. The MARS supervising station will provide limited observation training to observers by periodic visits to MARS. It supplies necessary forms and materials to MARS under its supervision. Supervising stations, with approval of respective regional headquarters, will select parameters to be observed by the MARS stations.

MARS supervising stations will review, for quality and completeness, observation logs (NOAA Form 72-5a) from MARS under their supervision. After review, the supervising station will send the completed logs to National Climatic Data Center (NCDC):

National Climatic Data Center
c/o Physical Archives
151 Patton Ave.
Asheville, NC 28801

5 NWS Regional Responsibilities. Regions provide operational support and guidance to maintain integrity of the MARS network as it pertains to regional and national data needs. Regions will establish the type of observation programs to be carried out by MARS and assign each MARS with an NWS supervising station. Where feasible, the Port Meteorological Officer will be used for this function.

6 National Data Buoy Center (NDBC) Responsibilities. NDBC coordinates the overall MARS program with the regions, USCG, and other participating agencies and updates MARS observational forms as required.

7 Joint NWS-USCG Responsibilities. The instructions to USCG MARS are covered under Weather Reporting Units in USCG Commandant Instruction (COMDTINST) 3140.3 series. COMDTINST 3140.3 is coordinated with WSH and NDBC before issuance to USCG field units. This instruction outlines observation programs for all USCG field units. Included in this instruction are Weather Observation Units (stations which make reports for station record only) which send their completed but unchecked observation forms directly to NCDC for archiving. Changes in an established station's observing program should, however, be cleared through NWS and USCG Headquarters.