

Inventory of regularly issued Marine Environmental

Data Products for the ICES Area - Addendum

UNITED STATES

"REAL-TIME" PRODUCTS

Compiled by
U. S. NODC



NOAA National Environmental Satellite Services (NESS)

Weekly Experimental VHRR Gulf Stream Analysis facsimile chart: The information on this chart is extracted from the NOAA-2 VHRR-IR imagery covering an area of the Western North Atlantic Ocean, from Florida to Nova Scotia. Due to their thermal contrasts, various surface characteristics such as eddies, currents, and water masses are displayed.

The purpose of this chart is to provide a periodic and graphic format with rapid and wide distribution for monitoring the Gulf Stream and surface features associated with it.

NOAA National Weather Service

"The Gulf Stream Wall Bulletin". A twice weekly telecommunicated bulletin (GSWB) which contains the geographic coordinates of the axis (Inner Wall) of the Gulf Stream off the East Coast of the United States. The bulletin is based on analysis of all available telecommunicated SST and BT data and Satellite VHRR coverage provided by NESS. The primary purpose of this product is to provide information useful for optimum ship routing purposes to vessels travelling along the East Coast of the U.S.

Naval Weather Service Command

1. Southern Ice Limit (Eastern Arctic) Chart. This chart consists of smoothed contours depicting sea ice conditions in the northern hemisphere within the area from 95°W east to 105°E. A seven day ice forecast and accumulated seasonal ice growth in inches and tenths is included. Chart is available weekly.
2. 30 Day Sea Ice Forecast Chart (Eastern Arctic). Available bi-monthly.
3. Southern Ice Limit Eastern Arctic (AXAC2) Message. This message consists of smoothed contours of hemispheric sea ice conditions for the eastern arctic and is available weekly.

4. Ice Reconnaissance Messages. These messages consist of observations encoded in the proposed WMO aerial ice observation code. Frequency of messages on an as available basis.

"NON-REAL-TIME" PRODUCTS

U.S. Coast Guard Oceanographic Unit

Airborne Radiation Thermometry Program. Flights are made along the east coast of the U.S. for the purpose of measuring sea surface temperature and producing SST charts at monthly intervals. The charts also show sightings of marine mammals and fish schools. Disseminated by mail.

NOAA NMFS Atlantic Environmental Group

Vertical sections of temperature (from XBT transects: ships-of-opportunity). Area: New York across continental shelf and Gulf Stream; New Orleans across eastern Gulf of Mexico and western Caribbean. Published in atlas form annually. (Selected sections could be made available more quickly on request.)

NOAA National Weather Service

"The Gulf Stream". This monthly summary, which now also uses available Satellite VHRR data, presents the position of the northern edge of the Gulf Stream, associated temperatures, and temperature anomalies for the western North Atlantic. Included in this publication are charts of the mean sea surface temperature, sea surface temperature anomalies, and monthly sea surface temperature change. Also provided are selected bathythermograms for specific locations during the monthly observational period and special feature analyses e.g. vertical sections of temperature and salinity.

NOAA Environmental Data Service (EDS)

Mariners Weather Log (Volume 1, 1957, to present) contains descriptions of the weather over the North Atlantic Ocean, including climatological tables on U.S.-operated ocean buoys, ocean weather stations, and ship-reported gale observations; and tracks of cyclones. The publication is issued bi-monthly and, in addition to the above climatological descriptions, contains articles on meteorology, oceanography, and hydrography.

National Ocean Survey (NOS)

"Tide Tables: high and low water predictions". Published annually in several volumes including "East Coast, North and South America including Greenland" and "Europe and West Coast of Africa including Mediterranean Sea".

"Tidal Current Tables". "Atlantic Coast of North America". Published annually and containing advance information about tidal currents including daily predictions of the times of slack water and the times and velocities of strength of flood and ebb currents.

"Surface Water Temperature and Density, Atlantic Coast, North and South America". Published irregularly, it includes monthly and yearly means and yearly maximum and minimum of daily observations of sea water temperature and density made at tide stations.