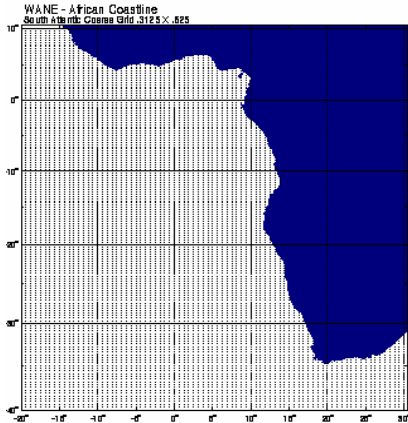


WANE: WEST AFRICA (MET OCEAN) NORMALS AND EXTREMES



South Atlantic Wind, Wave and Current Database

- A WANE Summary Report
- Statistics
- Model Generated Time Series

Description

We call this product WANE for West Africa (Met-Ocean) Normals and Extremes. WANE takes advantage of certain elements of WAX/WAX2 such as the proven wind, wave and ocean current hindcasting technologies but takes advantage of significant developments in aid of accurate very long term continuous hindcasts which have emerged within the past decade, many of which were implemented in Oceanweather's recently completed AES 40-year North Atlantic hindcast. WANE is an Oceanweather product with a significant contribution by Ocean Numerics, a joint venture company between GEOS Inc. and Nansen Environmental and Remote Sensing Center.

I. WANE Summary Report

- Introduction
- Data Sources Assembly
- Hindcast Methodology
- Wave Hindcast Validation
- Storm Hindcast (including storm selection)
- Continuous Hindcast
- Ocean Current Model Adaptation and Validation
- Derivation of Normals and Extremes
- General Climatology

II. Statistics

Extremes are computed from the hindcast results for return periods of 1, 5, 25, 50, 100, 200, 1000 years for:

- Wind speed: 1-hour, 1 minute, peak gust at 10 m height
- Significant wave height
- Maximum wave height
- Maximum crest height
- Associated wave period
- Near surface, mid-depth, near bottom layer current speed

III. Model Generated Time Series

The CD-ROM also includes wind, wave, and current (180 months) time series of "fields" variables at each licensed grid point in either ASCII or OSMOSIS format (utilization of OSMOSIS format requires a separate OSMOSIS site-license).

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