

GROW: GLOBAL and FINE



GROW GLOBAL

- ❑ 40+ Years of a Calibrated Global Hindcast
- ❑ More Accurate than Ship Report Based Products
- ❑ Better Representation of Long Term Climate Than Altimeter Measurements

GROW GLOBAL Description

A long term (40+ years) hindcast database consisting of point sorted hindcast wind and wave time series and derivative statistics including frequency of occurrence, persistence/duration and return period extremes. For applications in deep water global areas involving operability assessment, feasibility and preliminary survival estimates.

GROW FINE REGIONS

- ❑ ARABIAN SEA
- ❑ ARCTIC
- ❑ ATLANTIC BASIN
- ❑ BLACK SEA
- ❑ CARIBBEAN SEA
- ❑ SOUTH CHINA SEAS
- ❑ N.E. PACIFIC
- ❑ N.W. AUSTRALIA
- ❑ SOUTH AMERICA
- ❑ U.S. EAST COAST

GROW FINE Description

Long term hindcast databases generated on higher resolution grids nested within GROW and utilizing wave models with third-generation deep and shallow water wave physics. In relevant basins, the tracks and wind fields of tropical cyclones are modeled with greater precision and temporal resolution. In selected basins, GROW FINE includes storm driven vertically integrated currents and water level as hindcast by calibrated hydrodynamic models. For applications requiring definitive and high resolution normal and extreme metocean design data in shallow water and along continental margins.

Additional Oceanweather Hindcast Products

- ❑ GOMOS08 – Gulf of Mexico
- ❑ WANE / WANE2 – West Africa
- ❑ PERGOS – Middle Eastern Gulf
- ❑ NEXT – North Sea and Norwegian Sea
- ❑ TOWSIM – Global Tow Simulation

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