

## List of Acronyms and Abbreviations

ACT	Alliance for Coastal Technologies (a NOAA-funded partnership of research institutions, resource managers, and private sector companies)
ADCP	Acoustic Doppler Current Profiler
AERONET	AERosol ROBotic NETwork
AGL	Above Ground Level
AIS	Automatic Identification System
APL	Above Platform Level
ARES	Acquisition and Reporting Environmental System
AUV	Autonomous Underwater Vehicle
B	Bias
BC	Boundary Condition
BC Hydro	British Columbia Hydro and Power Authority, a Canadian electric utility
BLS	Beach Landing Site
BOEMRE	Bureau of Ocean Energy Management, Regulation and Enforcement
C	Celerity
C	Centigrade
C90™	Cray supercomputer
CC	Correlation Coefficient
CDT	Central Daylight Time
CHC	Canadian Hydraulic Centre
CICE	Los Alamos Sea Ice Model
C-MAN	Coastal Marine Automated Network
COAMPS	Coupled Ocean/Atmosphere Mesoscale Prediction System
COR	Contracting Officers Representative
Cpl	Corporal
CRRC	Combat Rubber Raiding Craft
CSI	Coastal Studies Institute (Louisiana State University)
CTD	Conductivity-Temperature-Depth
DC	Direct Current
DO	Dissolved Oxygen
E	Energy
EU	Europe
FFT	Fast Fourier Transform
FNMOCC	Fleet Numerical Meteorology and Oceanography Center
FSG	Field Support Group (Louisiana State University)
ft	foot
g	grams
g	gravity
GCOOS	Gulf of Mexico Coastal Ocean Observing System
GIS	Geographic Information Systems
GLCFS	Great Lakes Coastal Forecasting System
GLERL	Great Lakes Environmental Research Laboratory
GLOS	Great Lakes Observing System
GoM	Gulf of Mexico
GPRS	General Packet Radio Service
GPS	Global Positioning System
GSM	Global System for Mobile Communications
h	water depth

$H_{1/3}$	Significant wave height (observation based)
$H_{1/10}$	Highest ten percent of waves
HAB	Harmful Algal Blooms
HD	High Definition
$H_m$	Mean wave height
$H_{max}$	Maximum wave height
$H_{m0}$	Significant wave height (Energy Based)
HMPE	High Modulus PolyEthylene
HMPP	High Modulus PolyPropylene
$H_s$	Significant wave height
HYCOM	HYbrid Coordinate Ocean Model
Hz	Hertz
IMO	International Maritime Organization
IOOS	Integrated Ocean Observing System
IWS	Inertial Wave Sensor
J	Wave power transport
JHUAPL	Johns Hopkins University Applied Physics Laboratory
JONSWAP	Joint North Sea Wave Project
JPD	Joint Probability Distribution
kg	kilogram
KHz	Kilohertz
km	kilometers
KvH	Kuik—van Vledder—Holthuijsen
kW	kilowatts
LA	Louisiana
lbs	pounds
LEAP	Littoral Expeditionary Autonomous PowerBuoy®
LDNR	Louisiana Department of Natural Resources
LIDAR	Light Detection and Ranging
LPD	Landing Platform Deck
LUMCON	Louisiana Universities Marine Consortium
m	meters
MAREC	Michigan Alternative Renewable Energy Center
MaxWave	A European Commission project focused on rogue waves and their risk of encounter.
MEM	Maximum Entropy Method
METOC	Meteorological and Oceanographic
MHz	megahertz
MLH	Mixed Layer Height
m/s	meter/second
MSC	Meteorological Service of Canada
MSL	Mean Sea Level
MTRC	Michigan Tech Research Center
MTS/IEEE	Marine Technology Society/Institute of Electrical and Electronics Engineers
NA	North America
NASA	National Aeronautics and Space Administration
NASDAQ	National Association of Securities Dealers Automated Quotations
NAVD88	North American Vertical Datum of 1988
NAVO	Naval Oceanographic Office
NAVOCEANO	Naval Oceanographic Office
NCEP	National Centers for Environmental Prediction

NDBC	National Data Buoy Center
netCDF	network Common Data Form
NGOMEX	NOAA's Northern Gulf of Mexico Program addressing issues of HABs and hypoxia
NJ	New Jersey
NOAA	National Oceanic and Atmospheric Administration
NOGAPS	Navy Operational Global Atmospheric Prediction System
NOMAD	Naval Oceanographic Meteorological Automatic Device
NRC	National Research Council (Canadian)
NRL	Naval Research Laboratory
NUWC	Naval Undersea Warfare Center
NYHOPS	New York Harbor Observation and Prediction System
OCPR	Office of Coastal Protection and Restoration (Louisiana)
ODAS	Ocean Data Acquisition System
OEL	Ocean Engineering Laboratory (University of Michigan)
OPT	Ocean Power Technologies
OrcaFlex	Software package for the dynamic analysis of offshore marine systems.
PORTS <sup>®</sup>	Physical Oceanographic Real Time Systems
PB	PowerBuoy <sup>®</sup>
PIPS	Polar Ice Prediction System
PTO	Power Take Off
QARTOD	Quality Assurance of Real-Time Oceanographic Data
r	Correlation coefficient
RDCP	Recording Doppler Current Profiler
RH	Relative Humidity
ROV	Remotely Operated Vehicle
R/V	Research Vessel
S	Salinity
s	seconds
S	Slope
S	Variance density
SBD	Short Burst Data
SD	Standard deviation
SI	scatter index
SMS	Short Message Service
SSC	Stennis Space Center
SST	Sea Surface Temperature
SWAN	Simulating Waves Nearshore
SWH	Significant Wave Height
T	Temperature
t	time
T <sub>a</sub>	Average period
TAU	forecast time
T <sub>e</sub>	Wave energy period (all the crests)
TEMPER	Tropospheric Electromagnetic Parabolic Equation Routine
TIN	Triangulated Irregular Network
T <sub>p</sub>	Peak period
T <sub>s</sub>	Significant wave period
T <sub>z</sub>	Mean spectral wave period or zero-crossing period
U	Flow speed
UGLOS	Upper-Great Lakes Observing System

UNO	University of New Orleans
USACE	United States Army Corps of Engineers
UTC	Coordinated Universal Time
V	Voltage
VHF	Very High Frequency (30 MHz to 300 MHz)
W	Watts
WAFO	Wave Analysis for Fatigue and Oceanography
WAM	Wave Model
WAMIT <sup>®</sup>	A model used to understand the interaction of surface waves with structures.
WAVCIS	Wave-Current-Surge Information System
WCWCP	West Coast Wave Collaboration Project
WEC	Wave Energy Conversion
WHOI	Woods Hole Oceanographic Institution
WiFi	Brand name for IEEE 802.11 standards for implementing wireless local area network
WMO	World Meteorological Organization
WWII	World War II
WW3	WaveWatch III