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METEOROLOGICAL BOUY

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DEPARTMENT OF SCIENCE AND TECHNOLOGY
METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER



The following are the benefits for the system:

- Improving ocean observation and forecast (wind, waves, current, storm surge/coastal inundation).
- Enhance data observation.
- Support emergency management for search and rescue.
- Aid in coastal planning, support environmental management, conservation and restoration.
- Data management made available to stakeholder through data repository and web distribution vehicles.
- Cheap alternative to foreign made meteorological buoy devices.

Many lives and properties are lost and destroyed every year especially at coastal areas and at seas due to destructive waves, strong winds, and storm surges brought about by the inclement weather conditions.

To improve the maritime safety in the country, and enhance the ocean observation and weather forecasting capability of the Philippines, Meteorological Buoys are needed in critical areas especially in shipping ports, sea highways, and residential areas near the shorelines/coastal areas which are often affected by bad weather. Meteorological Buoys are instruments used to warn of impending dangers brought about by bad weather at sea. These are equipped with sophisticated communication system and sensors which collect and measure real time ocean weather data in sustained manner.

In support to DOST-PAGASA's efforts to modernize its ocean observation and weather forecasting facilities, the development of an effective low cost and sustainable buoy system was implemented. The meteorological buoy system will monitor the changes at sea especially during extreme bad weather conditions, and provide accurate and timely information to help prevent sea accidents and tragedies.



Priority Area

Addressing Pressing National Concern

Research Program

Disaster Risk and Management System

R&D Partners

Project Management and Engineering Design Services Office (PMEDSO)
 Philippine Atmospheric Geophysical & Astronomical Services Administration (PAGASA)
 Advanced Science and Technology Institute (ASTI)
 Philippine Coast Guard (PCG)