



US Army Corps
of Engineers®

Coastal Field Data Collection

Coastal Data Information Program (CDIP): Waves

Issue Ocean waves deliver energy to the coast and impact Corps projects and operations. Real-time wave observations are imperative for operational guidance of USACE dredging, navigation, maintenance, emergency operations, and the design of beach and navigation projects, to implement Regional Sediment Management (RSM) strategies, to ground-truth numerical wave models and as boundary conditions for coastal modeling activities. Inaccurate and insufficient coastal wave data can result in operation and design problems for coastal navigation and storm damage reduction projects. Long-term and storm data are required to determine how climatic changes and extreme events will impact Corps facilities, projects, and mission operations.

Research Approach The Coastal Data Information Program (CDIP) collects and provides high-quality long-term coastal wave observations for the Corps and the Nation. The map shows the existing



measurement locations. The program also develops tools for forecasting and modeling waves and to support sustainable coastal and navigation projects under a changing climate. CDIP is a primary Corps contribution to the Integrated Ocean Observing System (IOOS).

Partners This project is performed by the Scripps Institution of Oceanography in collaboration with the State of California and the U.S. Engineer Research and Development Center.

Products Documents, papers, data, and products can be found at the program Web site: <http://cdip.ucsd.edu>.

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