



OceanWorks Experience in the Design and Building of Cabled Ocean Observatories

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Abstract

Over the last five years, OceanWorks International has been leading the development of Cabled Ocean Observatories with systems deployed internationally. In section one of this paper, the concept and rationale for cabled ocean observatories is introduced with detail on the function as modern and powerful tools used to understand a broad range of ocean science objectives. In addition to the science that can be achieved, other applications are discussed such as site and equipment monitoring for tidal and wave based renewable energy projects. Similarly, the same technology can be applied to oil and gas production monitoring, control and intervention along with support for various port and coastal security surveillance technologies. Section two of the paper provides an overview of the four main cabled observatories projects OceanWorks has been involved with. This section will describe the various features and capacities each system offers to its users.

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