

New Perspectives for Ocean Research by Bio-logging Technology

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Abstract

Bio-logging technology has started from using mechanical Time Depth Recorder (TDR) to measure simply dive depth and duration of marine mammals and birds. However recently it has remarkably advanced as highly sophisticated animal borne observation system. Digital electronic technology enabled us to develop highly sophisticated small data logger system by which we could obtain integrated information on animal behavior, ecology, physiology and environment from underwater, which are still invisible and inaccessible for us. Now we are able to add more ocean observation sensors to the system such as optical sensors, and much more integrated information on not only animals but also whole ocean phenomena will be obtained, which will bring us new knowledge about ocean.