

Sensor Webs in Digital Earth: An IPY Legacy

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Abstract

The University of Alaska Southeast is currently implementing a sensor web identified as the SouthEast Alaska MONitoring Network for Science, Telecommunications, Education, and Research (SEAMONSTER). From power systems and instrumentation through data management, visualization, education, and public outreach, SEAMONSTER is designed with modularity in mind. We are utilizing digital earth infrastructures to enhance both sensor web management and data access. We will describe how the design philosophy of using open, modular components contributes to the exploration of different digital earth environments. We will also describe the sensor web physical implementation and how the many components have corresponding digital earth representations. This presentation will provide an example of the integration of sensor webs into a virtual earth. We suggest that IPY sensor networks and sensor webs may integrate into digital earth systems and provide an IPY legacy easily accessible to both scientists and the public.