**OCEANOGRAPHIC MONITORING**



***Sea Surveyor* owns and operates numerous types of sophisticated oceanographic sensors that monitor tides, waves current speed and direction, and diffusion/dispersion. Typical applications include:**



**CURRENT MONITORING:**

* ***InterOcean*** S-4 meters are used to measure current velocity and direction.
* Seafloor-mounted ***ADCP*** meters measure current speed/direction for entire water column.
* Computerized processing and plotting of current speedand direction statistics.





####  Results from Dye Study in Southeast Thailand Wave/Tide Gauge Time-Series Plot for Tides and Current Speed/Direction



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 **DYE DIFFUSION STUDIES:**

* Identify water circulation patterns.
* Measure turbulent diffusion.
* Identify optimal outfall site location.

**WAVE AND TIDE MONITORING:**

* Continuous deployments from 1-day to 1-year.
* Subsurface pressure-sensors measure water surface elevation to mm accuracy.
* Wave height, wave length, wave period, and wave direction (optional)

### Example Oceanographic Monitoring Investigations:

* **2002:** 3-Month Deployment of ADCP current profilers and Thermister Chains at 3 Offshore Locations near Sewage Outfall Diffuser for *Orange County Sanitation Dept*.
* **1996:** Current/Tide Monitoring near Oil Tanker Moorings in San Francisco Bay.
* [**1991:** Steady State Dye Studies and Patch Dye Tests in the Gulf of Thailandfor Engineering Design of Aquaculture Ponds.](file:///C%3A%5CUsers%5CCJS%5CDesktop%5COld%20SSI%20Website%5CWebSERVICES%5CPROJECTSFINAL%5CThailand.doc)
* **1989:** 2-Year Oceanographic Monitoring Program for San Diego Ocean Outfall Design.