RV *Wecoma* 2002, Chief Scientist: Ev Sherr Data from discrete samples, Oregon upwelling system Additional notes: December 30, 2005

Section 4. Scientific content of dataset

Water samples were collected from General Oceanics 5 L Niskin bottles mounted on a rosette.

| Name of parameter | Units |
|--------------------------------------|----------------------------|
| Station latitude | °N |
| Station longitude | °W |
| depth | meters |
| nitrate | micromoles per liter |
| nitrite | micromoles per liter |
| phosphate | micromoles per liter |
| silicate | micromoles per liter |
| chlorophyll a | micrograms per liter |
| bacterial leucine incorporation | picomoles leucine per hour |
| heterotrophic bacterial abundance | cells per ml |
| abundance of high nucleic acid cells | cells per ml |
| abundance of low nucleic acid cells | cells per ml |
| abundance of Synechococcus | cells per ml |
| abundance of diatoms | cells per ml |
| abundance of picoeukaryotes | cells per ml |
| abundance of CTC-positive cells | cells per ml |

The analyses for phosphate, nitrate plus nitrite (N+N), nitrite, and silicic acid (silicate) were performed using a hybrid Technicon AutoAnalyzerIITM and Alpkem RFA300TM system following protocols modified from Gordon et al. (1994). Chlorophyll *a* concentrations were determined using a Turner Designs 10-AU fluorometer (Strickland and Parsons 1972). Incorporation rates of ³H-leucine by bacterioplankton present in whole seawater samples were assayed following the protocol of Smith and Azam (1992). A Becton-Dickinson FACSCalibur flow cytometer was used for all cell enumeration (heterotrophic bacterial abundance, phytoplankton abundance, and abundance of CTC-positive cells). The details on the methods, sampling locations, and data are given in Longnecker et al. (2005)

References cited:

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- Morris, R.M., K. Longnecker and S.J. Giovannoni (submitted to *Environmental Microbiology*). *Pirellula* and OM43 are among the dominant lineages identified in an Oregon coast phytoplankton bloom.
- Sherr, E.B., B.F. Sherr and K. Longnecker (in revision for *Deep-Sea Research I*). Distribution of bacterial abundance and cell-specific nucleic acid content in the northeast Pacific Ocean.

Section 5. Data format of dataset

Data are in ASCII format (comma-separated), with 356 rows and 16 columns (listed in order in the table for Section 4).

Contact people for the data are as follows:

Barry and Evelyn Sherr College of Oceanic and Atmospheric Sciences Oregon State University 104 COAS Administration Building Corvallis, OR 97331-5503 Phone: 541 737 4639 Email: sherrb@coas.oregonstate.edu or sherre@coas.oregonstate.edu

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