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- Program, project, expedition name  
River Influence on Shelf Ecosystems (RISE)

- Funding agency, grant/contract numbers., date

Funding agency: National Science Foundation

Grant/contract #: OCE0239107

Funding dates: 1 June 2003 – 31 May 2008

- Data collectors' identifying numbers, e.g., cruise and leg numbers, cast numbers  
RISE cruises conducted aboard the R/V *Wecoma* are numbered sequentially: RISE 1W, RISE 2W, RISE 3W, RISE 4W, with the “W” for “Wecoma”. There were concurrent RISE cruises on the R/V Pt. Sur, hence the designation of the ship in the cruise name. Data in the spreadsheets associated with this metadata are identified by station name. The station name is generally two letters and two numbers (eg: HR05) although some stations have only one letter (eg: P09) and some stations may have another letter following the numbers (eg: AC05c). The inclusion of a “0” in station names with only one number was not followed consistently among different groups sampling on the same cruises, so other data sets from these cruises (CTD, chl, nut, etc.) may show a station name as P9 rather than P09. These differences in naming styles still refer to the same sampling station.

- Ship or other platform type, name/call sign  
R/V *Wecoma* / WSD 7079

- Dates (GMT) of data collection (begin-end)

The RISE project included four cruises aboard the R/V *Wecoma* carried out over a three-year period. The zooplankton team participated in the whole RISE 1W cruise and in parts of the other cruises. Dates when the zooplankton team was sampling are as follows:

RISE 1W. 8-Jul-04 to 28-Jul-04

RISE 2W. 6-Jun-05 to 20-Jun-05

RISE 3W. 4-Aug-05 to 13-Aug-05

RISE 4W. 1-June-06 to 13-June-06

- Geographic location-latitude(s)/longitude(s)

The RISE study area is in the Northeast Pacific Ocean off the coasts of Washington and Oregon. The study area is approximately 45.7 - 47°N and offshore to -125°W.

- Objectives of data collection effort

The dataset contains measurements of growth rates and brood sizes of the euphausiids *Euphausia pacifica* and *Thysanoessa spinifera*, and egg production rates of the copepods *Calanus pacificus* and *Calanus marshallae*. These data were collected as part of the RISE project off Oregon and Washington, USA, between 2004-2006. Each line of data in each spreadsheet is a measurement of one individual animal and includes cruise name, station name, date, latitude, longitude, and water depth. These data were collected as part of the RISE project to look at vital rates of zooplankton off of Washington and address the hypothesis that higher observed zooplankton biomass in this area could be explained to some degree by higher growth and/or egg production rates of the zooplankton.

- Data parameter(s)

Euphausiid growth data is in units of millimeters of growth per animal per day. This number may be negative since the animals sometimes get smaller after molting.

Euphausiid and copepod brood sizes are in units of number of eggs per brood per female.

Information on data precision, observation methodology, gear identification, analysis methodology, and data processing is contained in the following citations:

Shaw, T. L. Feinberg and W. Peterson. Protocols for measuring molting rate and egg production of live euphausiids. <http://www.pices.int/projects/Euphausiid/euphausiid.aspx>

Feinberg, L.R., C.T. Shaw, and W.T. Peterson. 2007. Long-term laboratory observations of *Euphausia pacifica* fecundity: comparison of two geographic regions. Mar. Ecol. Prog. Ser. 341:141-152.

Shaw, C.T., L.R. Feinberg, and W.T. Peterson. 2009. Interannual variations in vital rates of copepods and euphausiids during the RISE study 2004 – 2006. Journal of Geophysical Research, in press.