

### SECTION 1 Contributor identification

**Name of Contributor:** W. Scott Pegau

**Organization/Institution name:** Oil Spill Recovery Institute

**Mailing Address:** Box 705

**City:** Cordova

**State:** AK

**Zip Code:** 99574

**Country:** USA

**Telephone:** 907-424-5800 x222

**Email:** wspegau@pwssc.org

**Fax:**

**Other contact information:** scott.pegau@gmail.com

### SECTION 2 Data collector identification

**Name of data collector:** W. Scott Pegau

**Organization:** Kachemak Bay Research Reserve

**Mailing address:** 95 Sterling Hwy, Suite 2

**City:** Homer

**State:** AK

**Zip:** 99603

**Country:** USA

**Telephone:** 907-226-4654

**Email:** scott\_pegau@fishgame.state.ak.us

**Fax**

**Other contact info:** moved from Homer, scott.pegau@gmail.com

### SECTION 3 General dataset description

**Dataset title:** Lower Cook Inlet seasonal hydrographic surveys

**Dataset Abstract:** This is the CTD data from one of sixteen cruises in lower Cook Inlet. Four CTDs were used, but most also included fluorescence, transmissometer, and oxygen measurements. There were 3 to 7 transect lines occupied. Profiles were from the surface to the extent of a 200 m line. A few profiles were conducted on a slightly longer line. The data set were formatted for input into Ocean Data View.

**Dataset Purpose:** To understand the seasonal variability in hydrographic properties in lower Cook Inlet.

#### **Dataset collection dates**

**First day of data collection** January 8, 2005

**Last day of data collection** January 10, 2005

#### **Dataset location**

**Northernmost Latitude** 60.1

**Southernmost Latitude** 58.7

**Easternmost Latitude** -151.6

**Westernmost Latitude** -153.3

**Ocean/sea area name** Cook Inlet

**Platform(s) used to collect these data platform name(s) and type(s) separated by commas**

Fishing Vessel Columbia

**Instruments used to collect these data separated by commas:**

Seabird SBE-19+ CTD, Wetlabs wetstar fluorometer, Wetlabs c-star transmissometer,  
Seabird SBE 43 oxygen sensor, Licor PAR sensor

**Parameter measured:** pressure, conductivity, temperature, fluorescence voltage, transmission voltage, oxygen voltage, downwelling PAR irradiance

Project name: CMI seasonal hydrography of Cook Inlet

**Original cruise name:**

**Volume of data transferred (in bytes):**

**Filenames in data submission:** CMICicruise7.txt

## SECTION 4 Scientific content of dataset

Name of measured parameter	Unit of Measure used for parameter	Observation method and instrument used (type and model)	Analytical method and laboratory procedures used	Data processing techniques (with filtering and averaging)
Time	AKST (GMT-8)	SBE-19+		
Pressure	decibar	SBE 19+		
Conductivity		SBE 19+		Converted to salinity using SeaSoft software
Photosynthetically active radiation	Watts/m <sup>2</sup>	Licor PAR Ed		
Fluorescence voltage	Volts	Wetlabs Wetstar		
Transmissometer voltage	Volts	Wetlabs c-star		
Depth	meters	Calculated from pressure		
Salinity	PSU	Calculated from temperature and conductivity		
Sigma-t	Kg/m <sup>3</sup>	Calculated from temperature, salinity, and pressure		
Oxygen concentration	mg/l	Calculated in the software		
Oxygen percent saturation	%	Calculated in the software		

All data was averaged into 1 decibar bins centered on the reported value. The conductivity, temperature, oxygen, and fluorescence were lagged in accordance with the manufacturer's recommendations. See the associated header file (CMICicruise7hdr.txt) for more information on the processing steps.

## SECTION 5 Data Format of Dataset

**Media type on which data were submitted (e.g. FTP, Exabyte tape, etc.)** FTP

**Name of included file that contains specific record layout if applicable**

**Brief description of file organization:**

**Record Type**

**Data format information contact person**

**Name** W. Scott Pegau

**Email** wspegau@pwssc.org

**Telephone** 907-424-5800 x222

**Address** Box 705  
Cordova, AK 99574

## Section 6 Instrument calibration

**Name of included file that contains specific calibration details, if applicable:**

SBE-19+ calibrated February 8, 2004 by SeaBird Electronics

SBE-43 calibrated February 10, 2004 by SeaBird Electronics

Licor PAR calibrated 2002 by Licor

Wetlabs wetstar- uncalibrated

Wetlabs c-star - uncalibrated