Background Readings There is no required textbook. Reading assignments will come from

Points and grading scale for graduate students

2 2	-		Possible point	S	% of Total
Attendance and active class p	artic	ipation	50		10
Homework (4 assignments)		-	100		20
Midterm 1			75		15
Midterm 2			75		15
Paper/Presentation			100		20
Final			100		20
Total			500		100
A+ 98-100%	А	93-97%		A-	90-92%
B+ 87-89%	В	83-86%		B-	80-82%
C+ 77-79%	С	73-76%		C-	70-72%
D+ 67-69%	D	63-66%		D-	60-62%
	F	< 60%			

Support and Disability Services At UAF, the Office of Disability Services (203 WHIT; 474-5655; TTY 474-1827;

Week	Date	Lecture Topic	Assignment	Reading
9		Sedimentary transformation of trace metals	Hwk 3 returned	
9		The role of bacteria		
10		The influence of sea ice		Melnikov Ch. 3
10		Midterm 2		
11		Isotopes as tracers	Topic Due. Midterm 2 returned	Libes Ch. 5
		Isotopes as tracers (cont.)	Homework 4 Due	Swarzenski et al., 2000
12		Upwelling, fronts and eddies review	Outline/References Due	
		Controls on coastal productivity	Hwk 4 returned	Alongi Ch 7
13		Controls on coastal productivity (cont.)		Hutchins et al., 1998
		Interdisciplinary coastal research		Ocanography, 21(4): 90-107,
14 —		Coastal Observing Systems	Paper Due	
		Future challenges and coastal management		Valiela Ch 14
15		Student Presentations		
		Student Presentations	Papers Returned	
16		Final Exam		

Texts

Alongi, D.M. (1998) Coastal Ecosystem Processes. CRC Press, Boca Raton, FL, 419 pp.

Artemyev, V.E. (1996) *Geochemistry of Organic Matter in River-Sea Systems*. Kluwer Acedemic Publishers, Dordrecht, 190 pp.

Emerson, S. and Hedges, J. (2008) *Chemical Oceanography and the Marine Carbon Cycle*. Cambridge University Press, Cambridge, 453 pp.

Libes, S.M. (1992) An introduction to Marine Biogeochemistry. John Wiley & Sons, Inc., New York, 734 pp.

Melnikov, I.A. (1997) The Arctic Sea Ice Ecos

Hutchins, D.A., G. R. DiTullio, Y. Zhang and K. W. Bruland. 1998. An iron limitation mosaic in the