Estuaries, Ocean Properties and Ocean Currents Notes

Estuary - A partially enclosed coastal body of	water with on	e or more rivers flow	ving into it that
connects to the			The Estuary
Brackish water is a mixture of			n Brackish Salt
• The largest estuary in North Carolina is		·	Marsh Marsh
Why are Estuaries Important?			i lauriner.
Estuaries trap	traveli	ng from the	
land by and from the	brought in by the		
Estuaries are one of the most diverse and productive		in the world.	
Humans harvest	_from Estuaries.		
Humans rely on Estuaries to	the coastline during		and to reduce
Ocean Properties		Chloride Sodium	55 %
<u>Salinity</u> - The total amount of dissolved	in a sample of water.	Magnesium Sulfur Calcium	3.7%
• How much of the water in the Ocean is	salt?	-	% 7.7%
Where does the salt come from?			
• Activity and Land	add many diff	erent	to the ocean.
These minerals are mostly	and	_, and when combin	ed make salt!
Effects of Salinity		_	
Salinity		of water.	
Salt water takes	to freeze than fresh wate	er!	
Salinity		of water	
It is easier to	in salt water than in fresh water!		
Dissolved Gases in the Ocean			
What 2 gases are found in the air AND in the ocean?			
• What is the <u>SOURCE</u> of Oxygen in the O	cean?		

What is the <u>SOURCE</u> of Carbon Dioxide in the Ocean?______

Changes with Depth

How do each of the properties change as you go **<u>deeper</u>** in the ocean?

- Temperature?
- Light?
- Salinity?
- Density?
- Pressure?

Ocean Currents

<u>Current</u> – A large stream of ______ that flows through the oceans.

2 Types of Currents: _____ Currents Currents What are the surface currents of the ocean are driven by? South India South Atlantic Pacific Gyre Gyre Circum -Antarctic Current **Ocean Temperatures at the Surface** Surface temperatures vary by _____ and season. Surface temperature is ______ near the ______ than near the poles. How do currents affect the climate? The surface currents _______the air above it, and thus changes the climate. Question: Alaska and Northern Europe are at the same latitudes. Why is it then that Alaska has a much colder climate than Northern Europe? **Deep Currents** - _____ water is moved across the ocean _____, deep below the ocean's surface. What causes deep currents? • **Upwelling** – The movement of ______ water ______ from the deep ocean. Water pulled away from shore What causes an upwelling? Coastal Range Upwelling Upwelling brings up _____ This supply of nutrients allows for many _______to live in upwelling

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