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HOT utilizes a "burst" vertical profiling

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strategy where physical and biogeochemical properties are measured at 3 hour intervals over a 36-hour period, covering 3 semi-diurnal tidal cycles and 1 inertial period (~31 hours). This approach captures variability in ocean dynamics due to internal tides around Station ALOHA. It is designed to ...

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Hawaii Ocean Time-series - Wikipedia  
Altered biogeochemical cycles combined with climate change increase the vulnerability of biodiversity, food security, human health, and water quality to a changing climate. ... like the mineral layers of soil or deep ocean sediments, ...

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Recent syntheses 33 evaluate the dynamics of these two important gases and project future changes ...

Biogeochemical Cycles | National Climate Assessment

But the future fate of this important carbon sink is quite uncertain because of potential



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climate change impacts on ocean circulation, biogeochemical cycling, and ecosystem dynamics. The ocean plays a vital dominant role in the Earth's carbon cycle. The total amount of carbon in the ocean is about 50 times greater than the amount in the ...

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Carbon Cycle | Science Mission

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Biogeochemical Significance The  
hyporheic zone is an ecotone between the  
stream and subsurface: it is a dynamic area  
of mixing between surface water and  
groundwater at the sediment-water  
interface. From a biogeochemical

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perspective, groundwater is often low in dissolved oxygen but carries dissolved nutrients.

Hyporheic zone - Wikipedia

Contributions are focused on selected aspects of climate dynamics on particular scales of space or time. The journal also

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publishes reviews and papers emphasizing an integrated view of the physical and biogeochemical processes governing climate and climate change.

Climate Dynamics | Home

Robust predictions of future changes in global biogeochemical cycling require an

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understanding of how microorganisms adapt to stressful and changing environments. In the ocean, rates of adaptation will be a function of both evolutionary timescales and physical dynamics. However, little is known about this interaction.

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Analysis toolbox

Introduction to Ocean Literacy Principles  
(OLP) OLP 1: The Earth has one big  
ocean with many features; OLP 2: The  
ocean and life in the ocean shape the  
features of the Earth; OLP 3: The ocean is  
a major influence on weather and climate;

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OLP 4: The ocean makes Earth habitable;

OLP 5: The ocean supports a great  
diversity of life and ecosystems

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manoa.hawaii ...

GO-SHIP brings together scientists with  
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carbon cycle, marine biogeochemistry and ecosystems, and other users and collectors of hydrographic data to develop a globally coordinated network of sustained hydrographic sections as part of the global ocean/climate observing system.

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