

## The Student Volume 5



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## THE STUDENT VOLUME 5

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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 24 pages. Original publisher: Greenbelt, Md. : NASA Goddard Space Flight Center, 2000 OCLC Number: (OCOlc)83756137 Excerpt: . . . 9. 3. 2 Calculated Variables Porewater CH4 concentration ( PWCH4 ) was calculated as:  $CH4hs = \frac{P}{Po} \cdot \frac{Kh}{Vhs} \cdot \frac{Vw}{(CH4hs - CH4amb)} \cdot RT$  where: CH4hs is the equilibrated headspace concentration of CH4 ( ppm ) P and Po are ambient and sea-level atmospheric pressures ( 101325 Pa ) CH4 Kh is the Henrys law constant for at ambient temperature ( 298 K ) Vhs and Vw are the volumes of headspace and water in the syringe CH4amb is the ambient CH4 concentration ( 1. 8 ppmv ) R is the universal gas constant ( 8314. 4 L Pa K mol T is the ambient temperature ( 298 K ) Porewater concentration calculated as: ( PWCO2 ) was  $CO2 = \frac{CO2hs}{Po} \cdot \frac{Kh}{Vhs} \cdot \frac{Vw}{(CO2hs - CO2amb)} \cdot RT$  where: is the equilibrated headspace concentration of ( ppm ) CO2hs CO2 P and Po are ambient and sea-level atmospheric pressures ( 101325 Pa ) Kh is the Henrys law constant for CO2 at ambient temperature ( 298 K ) Kal and Ka2 are the 1st and 2rid dissociation constants for aqueous CO2 pH is the pH of the porewater after stripping Vhs and Vw are the volumes of headspace and water in the syringe CO2amb is the ambient CO2 concentration ( 350 ppmv ) R is the universal gas constant ( 8314. 4 L Pa K tool ) T is the ambient temperature ( 298 K ) 9. 4 Graphs and Plots None given. 10. Errors 10. 1 Sources of Error During sampling, a leak in...

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