

## The Student Volume 5



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### Reviews

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(Candida Deckow III)*

## 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: (OCLOC)83756137 Excerpt: . . . 9. 3. 2 Calculated Variables Porewater CH4 concentration ( PWCH4 ) was calculated as:  $CH4_{hs} = \frac{P_{Po} K_h V_{hs} V_w}{(P_{Po} + P_{RT})}$  where:  $CH4_{hs}$  is the equilibrated headspace concentration of CH4 ( ppm )  $P$  and  $Po$  are ambient and sea-level atmospheric pressures ( 101325 Pa )  $CH4$   $K_h$  is the Henrys law constant for at ambient temperature ( 298 K )  $V_{hs}$  and  $V_w$  are the volumes of headspace and water in the syringe  $CH4_{amb}$  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  $CO2_{hs} = \frac{P_{Po} K_h V_{hs} V_w}{(P_{Po} + P_{RT})}$  where: is the equilibrated headspace concentration of ( ppm )  $CO2_{hs}$   $CO2$   $P$  and  $Po$  are ambient and sea-level atmospheric pressures ( 101325 Pa )  $CO2$   $K_h$  is the Henrys law constant for CO2 at ambient temperature ( 298 K )  $K_1$  and  $K_2$  are the 1st and 2nd dissociation constants for aqueous CO2  $pH$  is the pH of the porewater after stripping  $V_{hs}$  and  $V_w$  are the volumes of headspace and water in the syringe  $CO2_{amb}$  is the ambient CO2 concentration ( 350 ppmv )  $R$  is the universal gas constant ( 8314. 4 L Pa K mol )  $T$  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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