

## The Student Volume 5



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### **Reviews**

*Undoubtedly, this is actually the greatest job by any author. This can be for those who statte there was not a worthy of studying. I am delighted to inform you that this is actually the greatest publication i actually have read within my very own daily life and could be he greatest book for ever.*

*(Perry Reinger)*

## 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 CH<sub>4</sub> concentration ( PWCH<sub>4</sub> ) was calculated as:  $CH_4hs \cdot P \cdot P_o \cdot K_h \cdot V_{hs} \cdot V_w \cdot (CH_4hs - CH_4amb) \cdot P \cdot R \cdot T$  where: CH<sub>4</sub>hs is the equilibrated headspace concentration of CH<sub>4</sub> ( ppm ) P and P<sub>o</sub> are ambient and sea-level atmospheric pressures ( 101325 Pa ) CH<sub>4</sub> K<sub>h</sub> is the Henrys law constant for at ambient temperature ( 298 K ) V<sub>hs</sub> and V<sub>w</sub> are the volumes of headspace and water in the syringe CH<sub>4</sub>amb is the ambient CH<sub>4</sub> 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: ( PWCO<sub>2</sub> ) was CO<sub>2</sub> CO<sub>2</sub>hs P P<sub>o</sub> K<sub>h</sub> ( I K<sub>a1</sub> 10<sup>pH</sup> ( I K<sub>a2</sub> 10<sup>pH</sup> ) ) V<sub>hs</sub> V<sub>w</sub> ( CO<sub>2</sub>hs - CO<sub>2</sub>amb ) P R T where: is the equilibrated headspace concentration of ( ppm ) CO<sub>2</sub>hs CO<sub>2</sub> P and P<sub>o</sub> are ambient and sea-level atmospheric pressures ( 101325 Pa ) K<sub>h</sub> is the Henrys law constant for CO<sub>2</sub> at ambient temperature ( 298 K ) K<sub>a1</sub> and K<sub>a2</sub> are the 1st and 2rid dissociation constants for aqueous CO<sub>2</sub> pH is the pH of the porewater after stripping V<sub>hs</sub> and V<sub>w</sub> are the volumes of headspace and water in the syringe CO<sub>2</sub>amb is the ambient CO<sub>2</sub> 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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