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# MANTLE AND CRUSTAL SOURCES OF CARBON, NITROGEN, AND NOBLE GASES IN CASCADE-RANGE AND ALEUTIAN-ARC VOLCANIC GASES: OPEN-FILE REPORT 2003-436 (PAPERBACK)



Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Here we report anhydrous chemical ( $\text{CO}_2$ ,  $\text{H}_2\text{S}$ ,  $\text{N}_2$ ,  $\text{H}_2$ ,  $\text{CH}_4$ ,  $\text{O}_2$ ,  $\text{Ar}$ ,  $\text{He}$ ,  $\text{Ne}$ ) and isotopic ( $3\text{He}/4\text{He}$ ,  $40\text{Ar}/36\text{Ar}$ ,  $\text{a}^{13}\text{C}$  of  $\text{CO}_2$ ,  $\text{a}^{13}\text{C}$  of  $\text{CH}_4$ ,  $\text{a}^{15}\text{N}$ ) compositions of virtually airfree gas samples collected between 1994 and 1998 from 12 quiescent but potentially restless volcanoes in the Cascade Range and Aleutian Arc (CRAA). Sample sites include.

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- Authored by Robert B Symonds
- Released at 2013



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