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| Nota di contenuto | <p>""THE LITHOSPHERE: GEOCHEMISTRY,GEOLOGY AND GEOPHYSICS"";</p> <p>""THE LITHOSPHERE: GEOCHEMISTRY,GEOLOGY AND GEOPHYSICS"";</p> <p>""CONTENTS""; ""PREFACE""; ""THE EARLY EARTH AND FORMATIONOF THE LITHOSPHERE""; ""Abstract""; ""1. Introduction""; ""2. Some Remarks on Physical Problems Related to ModelingConditions of Formation and Evolution of the Lithosphere""; ""3. Thermal Conditions during the Formation and Evolutionof the Early Earth""; ""4. Cooling of the Magma Ocean and Formation of the Lithosphere""; ""5. Early Atmosphere and Possible Conditions for the Formationof the Water-Ocean"";</p> <p>""Conclusion""</p> <p>""Reference""""CONTINENTAL AND OCEANIC LITHOSPHERESTRUCTURE FROM THE LONG-RANGE SEISMICPROFILING""; ""Abstract""; ""1. Introduction""; ""2. Lithosphere Structure of the Northern Eurasia""; ""2.1. Long-Range Profiling in the Northern Eurasia""; ""2.2. The Observed Wave Fields""; ""2.3. Methodology of the Wave Field Interpretation and 2-D VelocityModeling""; ""3. Deep Seismic Research along the Angola-Brazilian Geotraverse""; ""3.1. Introduction""; ""3.2. Experimental Data""; ""3.3. The Composite Seismic Section along the</p> |

Geotraverse"; "4. Conclusion"; "References"

"THE FATE OF SUBDUCTED OCEANIC CRUST AND THE ORIGIN OF INTRAPLATE VOLCANISM" "Abstract"; "Development of the Standard Model"; "Why Were Two Contrasting Models for the Fate of Subducted Oceanic Crust Included?"; "A Core-Signature in Intraplate Volcanism?"; "Melting Regimes in Plumes"; "Consequence: Duplication of Mechanisms"; "What if the Marble-Cake and Plume Models Had not Been Combined?"; "A Path Followed Two Decades Later"; "Helium Isotopes Re-visited"; "Osmium Isotopes and Heterogeneity in the Convecting Mantle"

"Production of Pyroxenitic Sources in the Convecting Mantle"

Conclusion"; "References"; "HELIUM ISOTOPE VARIATIONS ALONG THE NIIGATA KOBETECTONIC ZONE, CENTRAL JAPAN"; "Abstract"; "1. Introduction"; "2. Analytical Procedures and Results"; "4.

Discussion"; "5. Conclusion"; "Acknowledgement"; "References";

"VOLATILES IN THE MANTLE LITHOSPHERE: MODES OF OCCURRENCE AND CHEMICAL COMPOSITIONS" "Abstract"; "1. Introduction"; "1.1. Implications of Mantle Volatiles"; "1.2. Occurrence Modes of Mantle Volatiles"; "1.3. Compositions of Mantle Volatiles"

"2. Samples and Analytical Methods" "2.1. Representative Samples";

"2.2. Analytical Methods"; "2.3. Improved Online Vacuum Stepwise Heating Method"; "3. Occurrence Modes of Volatiles"; "3.1. Fluid

Inclusions"; "3.2. Volatiles in Mineral Structural Defects and Vacancies"; "3.3. Anion Complexes Incorporated in Crystal

Structures"; "3.4. The Superimposed Effects of Volatiles in Different Occurrence"; "4. The Redox State and Volatile Species in the Mantle";

"4.1. The Redox State in the Mantle"; "4.2. Volatile Species in the

Mantle"

"5. Chemical Compositions of Volatiles in Sub-Continental Lithospheric

Mantle"

Mantle"

Mantle"

Mantle"