

## Relationship between glass texture and noble gas compositions in pillow samples

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Although many efforts have been made to improve the condition of the gas-extraction system, significant variations in the degree of the atmospheric contamination have been commonly observed in noble gas analyses of MORBs. Detailed analyses of noble gas signatures within a single pillow were performed in order to reveal a relationship between noble gas signatures and the textures of quenched glasses. The heterogeneous parts including both the outermost margins such as a devitrified region and transition mixtures of glass and crystallized interior have shown that they were much affected by the atmospheric component. Duplicate analyses of homogeneous parts showed good reproducibility for samples separated from either an aliquot pillow sample or different ones dredged from the same site.