

u-series isotope and geodynamic constraints on mantle ... - u-series isotope and geodynamic constraints on mantle melting ... mantle, rather than a broad zone of deeply-sourced (plume) upwelling. upper mantle, edge-driven convection is consistent with ... u-series disequilibria have provided important constraints on the porosity and upwelling rate of the melting regions of mantle plumes **erin h. phillips and kenneth w.w. sims, university of ...** - u-series isotopic constraints on mantle upwelling on the periphery of the hawaiian plume isotope geochemistry of haleakala crater basanites erin h. phillips and kenneth w.w. sims, university of wyoming, and vincent j.m. salters, florida state university **u-series constraints on intraplate magmatism** - u-series constraints on intraplate magmatism ... review what insights have been gained from using u-series to constrain the sources and ... the mantle viscosity which controls much of the dynamics ... **dehydration and partial melting in subduction zones ...** - bourdon, b., turner, s. & dosseto, a. (2003). dehydration and partial melting in subduction zones: constraints from u-series disequilibria. journal of geophysical research, 108 (b6), 1-19. dehydration and partial melting in subduction zones: constraints from u- ... u from the slab to the mantle wedge. the presence of large $^{87}\text{Sr}/^{86}\text{Sr}$ disequilibrium ... **chemical and isotopic constraints on the generation and ...** - tion of the u-series measurements in this area. constraints on mantle source composition from the sr, nd, hf, and pb isotope data enable us to distinguish between the effects of source variability and melting processes. using the major and trace element compositions of these samples, we evaluate the time **constraints on mantle electrical conductivity from field ...** - constraints on mantle electrical conductivity from field and laboratory measurements steven constable institute of geophysics and planetary physics, la jolla ca92093-0225, u.s.a. ... bmay be a time series or the fourier transform of a time series (in this paper we will be interested only in frequency domain measurements). non-zonal terms have ... **in copyright - non-commercial use permitted rights ...** - u-series constraints on mantle melting and magma evolution a dissertation submitted to the eth zürich for the degree of doctor of sciences presented by janne marij koornneef msc. vrije universiteit amsterdam date of birth: 02.01.1979 citizen of the netherlands accepted on the recommendation of: prof. dr. bernard bourdon prof. dr. andreas stracke **earth and planetary science letters - harvard university** - u-series disequilibria provide important constraints on the processes and time scales of melt production, differentiation, and transport in subduction settings. such constraints, which are essential for understanding the chemical evolution of the continental crust, are conventionally based on the assumption that the u-series **u series disequilibria: insights into mantle melting and ...** - u series disequilibria: insights into mantle melting and the timescales of magma differentiation received 22 march 2004; revised 18 december 2004; accepted 17 january 2005; published 31 march 2005. **evidence for mantle plumes?** - parison with ridges², u-series unfailingly indicate higher temperatures beneath hotspots than at mid-ocean ridges 9 . anderson and natland 1 favour the idea that all plumes originate **magma extraction from the mantle wedge at convergent ...** - magma extraction from the mantle wedge at convergent margins through dikes: a parametric sensitivity analysis scott e. johnson ... well within the time constraints provided by u series isotope disequilibria studies. increasing the temperature in the mantle wedge, or increasing the ... constraints on magma transport rates in the mantle [5] ... **7 december 2006** **doi:10.1038/nature05341 articles** - velocity, mantle temperatures (which control the degree of melting) and the horizontal length scale of mantle upwelling, thereby establishing u-series data as a unique link between geochemical and geo-physical constraints on mantle dynamics. u-series systematics in ocean island basalts **geol 40280: igneous, metamorphic and ore geology** - session 7: u-series disequilibria. (prof. p.f. mcdermott) u-series disequilibria. introduction to the systematics of u-series. u-series constraints on mantle melting, timescales of magma transport and fluid/magma interactions. data analysis practical with emphasis on u-series data. **u-series symposium program - heather handley** - u-series symposium program wed 12th feb ... on the application of u-series disequilibria to the study of mantle melting and basalt petrogenesis 10.30-10.45 am keynote: discussion ... u-series isotopic constraints on mantle upwelling on the periphery of the hawaiian plume;

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