

## Combined U-Th-disequilibrium and (U-Th)/He dating of zircon – a reliable tool for dating young volcanic systems

Martin Danišák

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Ceewtcvg"cpf"rtgekug"fcvkpi "qh'S wcvgtptct { "xqrecple" tqemu"ku"qhvgp"fhlewn/dgecwug."fwg"vq" c"nem'qh" fcvdrg"o cvgtkcn'qt"uwhtekgpvt'guqmwkqp. "y" g"cr r'lecvkqp"qh'tcf kskpccnf cvkpi "vqnu"\*g0 0'tcf kqectdqp."Ct/Ct." M/Ct."hkuukqp'tcem"equo qi gple'pwerkf gu'qt"nwo kpguegpeg+'b c { 'pqvldg'cny c { u'hgcukdrg0J gpeg."y" gtg'ku'c'etk'k'ecni' pggf'ht'pgy "f cvkpi "o gyj qf u'cr r'qr tlcvg"vq'S wcvgtptct { "xqrecple'tqemu"cpf"eqo dkgf "W/Vj /f lugs wkrdtkwo "cpf " \*W/Vj +J g"fcvkpi "qh'htu"c"xkcdrg"cngtpcvkg'ht'tqemu'y cv'eqpvc'p" k'eqp0Vj ku'o gyj qf "j cu'dggp'uweeguuhwm" " wugf "ht'f cvkpi "xqrecple"gtw'v'kpu'cu" { qwpi "cu'c'hgy "y" qwuc pf u" { gctu0Rgtj cr u'y" g"o clqt'cf xcpvc' g'qh'y ku" cr r'tqcej "ku'y cv'k'cmjy u'f cvkpi "qh'ukle le'tqemu'y cv'v' r'lecm' "eqpvc'p" k'eqp'dw'ctg'qhvgp'pqv'f cvdrg'd { "Ct/ Ct"o gyj qf u'f wgv"vq" c'nem'qh'M/tlej "b kpgtcm0\*W/Vj +J g"o gyj qf u'ctg'dcugf "qp'y" g'ceewo wrcvkqp'qh'tcf kqi gple" J grkwo "r tqf wegf "d { "f gec { "qh'Wcpkwo "cpf "Vj qtkwo . "cpf "o c { "kpxqrg" c'eqttgevkqp'ht'f lugs wkrdtkwo "kp" uco r'ngu" { qwpi gt "y cp"3"O c0Vj ku'ku'cekrkcvgf "y tqwi j "y g'f gvgto kpcvkqp'qh'et { uvcnk cvkqp'ci gu'ht'\*W/Vj +J g" f cvgf "ukpi ng"et { uvcnu'd { "wukpi "ugeqpf ct { "kqp"o cuu'ur gestqo gw { "UKO U:0"

F gur kg'dgkpi "uweeguuhwm" "wugf "kp'S wcvgtptct { "xqrecple"i ggej tqpqmi { "ht'z37" { gctu."y" gtg'ku'uknu'buo g" j gukcvkqp'y kj kp'y g'xwrecpqmi kcn'eqo o wpkv' "kp"wukpi "W/Vj +J g"fcvkpi "cu'y" g'vqni'qh'ej qleg'ht' k'eqp'qt" cr cvkg/dgctkpi "S wcvgtptct { "xqrecple'tqemu0Vj ku" o c { "dg" f wgv"vq" y g'tgrcvkgn' "uo cm' pwo dgt" qh'uwwf lgu" f go qpwtcvkpi "y g'tgkcdkxv' "qh'\*W/Vj +J g"fcv0kp"qt f gt "v'ht'v g t"v'guv'y g'ghlece { "qh'\*W/Vj +J g'fcvkpi . "kp" y ku'r t'gugpvcvkqp"Ky kn'tgr qt v'qp" c'etqu/xcnf cvkqp" g zr gto gpw'lp'y j lej "y g'cr r'rkf "W/Vj +J g"o gyj qf "vq" utcvgi kcm' "ugrvgf 'tqemu'htqo "ektewo /Rcekle"xqrecple"u' ugo u'y cv'j cxg'dggp'f cvgf "d { "qy gt'o gcpu'cpf'ecp" dg"wugf "j gtg"cu" c'pewtch'ecrkdtevkqp'ukgu0Ky kn'cnuq'tgr qt v'c'pgy "ugv'qh'\*W/Vj +J g"ci gu'i gpgtcvgf "ht'uq o g" xqrecple"u' ugo u'lp'Lcr cp."P gy "\ gcnp f "cpf "Uqwj "Mqtgc0Vj g'qxgtctej kpi "i qcn'qh'y ku'r t'gugpvcvkqp"ku"vq" r tqo qvg'y g'\*W/Vj +J g"o gyj qf "vq"y g'xwrecpqmi kcn'eqo o wpkv' "cpf "f go qpwtcvg'ku'wughwpgu'ht'f cvkpi "qh" o cp { "r t'gxlqwn' "wpf cvdrg'S wcvgtptct { "xqrecple'tqemu0"