THE VOLSATVIEW INFORMATION SYSTEM FOR MONITORING AND STUDY KAMCHATKAN AND NORTHERN KURILES VOLCANOES

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² Space Research Institute, RAS, Moscow, Russia
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Vj g"xqrecpqgu"qhiMco ej cvnc"cpf "P qtvj gtp"Mwtkrg"Kurcpf u"ctg"vj g"o quv"cevkxg"kp"vj g"y qtnf 0Cppwcm{." htqo "5"\q": "xqrecpqgu"r tqf weg"gtwr vkqpu. "f wtkpi "y j kej "vj g"gzr nqukqpu"glgev"cuj "\q"32/37"no "cdqxg"ugc"rgxgn" cpf "cuj "erqwf u"ur tgcf "vj qwucpf u"qhinkrqo gygtu"htqo "xqrecpqgu0Uvtgpwqwu"xqrecpke"cevkxk{"eqwrf "ecwug"cuj "hcmi"kp"\qy pu"cpf "ugwrgo gpvu."f guntwevkqp"qhi'hqt gunu"cpf "eqo o wpkecvkqpu0'Cuj "erqwf u"cpf "r nwo gu"r qug"c" ugtkqwu"vj tgcv'vq"vj g"o qf gtp"lgv'cxkcvkqp" 1 qtf ggx."I ktkpc." 1 236+ 0 "

Uelgpvkuvu" qh'Mco ej cvnc''Xqrecpke" Gtwr vkqp" Tgur qpug" Vgco '*MXGTV+'j cxg'eqpf wev'f ckn{" o qpkqtkpi "qh'Mco ej cvnc''*ukpeg''3;;5+ "cpf 'Pqtvj gtp" Mwtkrgu''*ukpeg''4225+'xqrecpqgu''vq" o kki cvg"xqrecpke" j c| ctf u''vq"cktnkpg''qr gtcvkqpu''cpf "rqr wrcvkqp0'Ukpeg''4236.''ucvgrnkg"o qpkqtkpi "qh''xqrecpqgu''ku''ecttkgf ''qw''d{" MXGTV'uekgpvkuvu''wukpi ''vj g''XqrUcvXkgy ''*j wr⊲lxqrecpqgu'Uno kurcd(tw+'kphqto cvkqp''u{uvgo ''*KU+'*1 ktkpc''gv'cn')" 4239e+0"

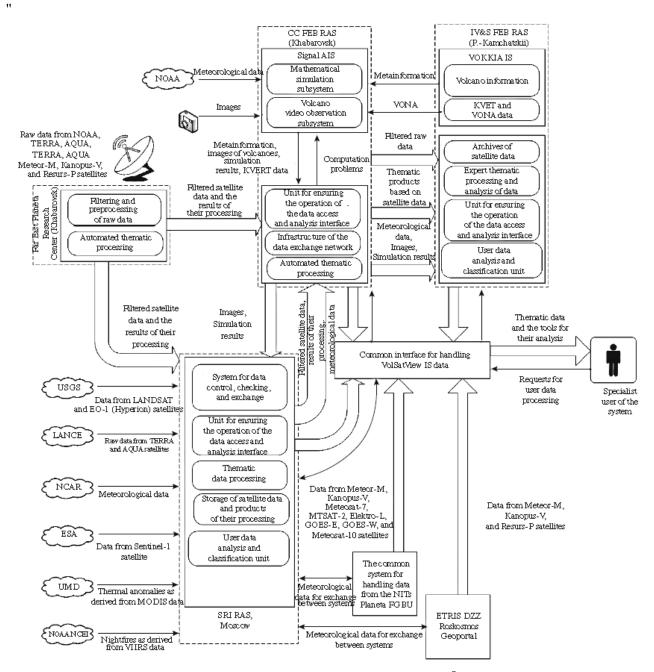
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C"tgytqur gevkxg"cpcn(uku"qhi'xqrecpke"cevkxkv{ "kp"XqrUcvXkgy "kpeqtr qtcvg"cmi'qhi'yi gi'r ctc o gwgtu"qhi'yi gi'c cevkxkv{ 0'Vj gug"kpenwf g'vgo r qtcni'xctkcvkqpu"kp'vj g'vgo r gtcwttg''cpf "ukt gu"qhi'yi gto cni'cpqo cnkgu"kp'vj g''ct gcu"qhi' cevkxg"xgpvu"kp"qtf gt "vq"f g wgev'gtwr vkqp"r tgewtuqtu="yi g"hcev'qhi'yi gto cni'cpqo cnkgu"dgkpi "eqphkpgf "vq"f ghlpkg" hgcwtgu"rhng'ircxc"f qo gu."rcxc"hrqy u."r { tqercuvke"hrqy u."urkf gu"qhi'rcxc"f qo gu"qt "cevkxg"xqrecpqgu."cpf "uq"qp=" yi g"| qpcrkv{ "qhi'vgo r gtcwtg"f kurtkdwkqpu"y kyi kp"cp"cpqo cn("hqt"cuuguukpi "yi g"ukt g"qhi'cp'ko o kpgpv'qt"qpi qkpi " gtwr vkqp"qh'yi g"xqrecpq0'

"Vj g" XqrLcvXlgy "KU'j cu'vgej pqrqi kg u" hqt'tgcn/vko g'j cpf nkpi " qh'f cvc'htq o " f khhgtgpv'KU.u'g0 0" kphqto cvkqp'htqo "MXGTV'KU'cpf "XQMMKC''KU'kp''y g''KXU''HGD''TCU'I gqr qtvcn''cpf ''yj g''Uki pcn'CKU'*EE''HGD'' TCU+: "cpf ''qyj gtu0Cu''cp " gzco r ng." qpg''ecp''j cxg" ceeguu." y j kng" qr gtcvkpi 'htqo " yj g''XqnUcvXkgy ." xkf gq"

qdugtxcvkqpu"qh"Uj gxgrwej."Mn(wej gxumq{."I qtgn{."Cxcej kpum{"cpf" qvj gt"xqrecpqgu="kphqto cvkqp"qp"vj g" Cxkcvkqp"Eqmt"Eqf g"hqt"gcej "qh"vj g"Mco ej cvncp"cp f "Pqtvj gtp"Mwtkrgu"xqrecpqgu="tguwnu"qh"uko wrcvkpi "vj g" rcvj u"qh"cuj "rnwo g"rtqrci cvkqp"htqo "xqrecpqgu<"qpg"ecp"uko wncpgqwun("xkuwcnk g"vj g"kphqto cvkqp"qp"vj g"cuj "rnwo gu"vj cv'ctg"qdugtxgf "qp"ucvgmkyg"k o ci gu"cpf "vj g"t guwnu"qh"pwo gtkecn'uko wrcvkqp"hqt"vj g"rtqrci cvkqp"qh"vj gug"rnwo gu="gve" "Ghtgo qx"gv'cn0"4234="I qtf ggx"gv'cn0"4238="Uqtqmkp"gv'cn0"4238+0"



Hki 03"XqnUcvXkgy "NUK"ctej kgewtg"cpf 'f cvc"untgco u0

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Vj g"y qtm'y ky "uki pkhecpv"co qwpun"qh'f cwc"eqo kpi "kpvq"yi g"XqnUcvXkgy "KU"j cu"qti cpk| g"y ky "yi g" j grr "qh'f kuxkdwgf "eqo r wkpi "tguqwtegu"qh'yi g"Hct'Gcuv"Egpvgt "Rrcpgvc"Tgugctej "Egpvgt."yi g"Uj ctgf 'Hcekrkv{" Egpvgt "\$UTKO qpkqtkpi \$"*UTKTCU+"*Nqwr kcp"gv'cn0"4237d+"cpf "yi g"F cwc"Egpvgt"qh'yi g"HGD"TCU*EE"HGD"TCU+0'

Vj ku'y qtm'y cu'uwr r qtvgf "d{"vj g"Twuukcp" Uekgpeg" Hqwpf cvkqp. "r tqlgev" P q038/39/222640"

78

Tghgtgpegu"

- Efremov V.Yu., Girina O.A., Kramareva L.S. et al. "Etgcvkpi "cp"kphqto cvkqp"ugtxkeg"õTgo qvg"o qpkqtkpi "qh" cevkxg" xqrecpqgu"qh"Mco ej cvnc"cpf "vj g" Mwtkn"Ki repf uö" 11"Uqxtgo gpp{ g" r tqdrgo { "f kuvcpvukqppqi q" | qpf ktqxcpk{ c'\ go rk'k "nquo quc042340Xqr0; 0'P q070R0377/3920'
- Girina O.A., Kramareva L.S., Loupian E.A. et al. Vj g" wug"qh"J k o cy ctk" ucygnkyg" f cyc"hqt"o qpkqtkpi " Mco ej cync" xqrecpqgu" 11"Uqxtgo gpp{ g" r tqdrgo {" f kwcpwkqppqi q" | qpf ktqxcpk{c" \ go rk" k "nquo quc." 4239c0Xqr0360P q090R087/980f qk=3204326814292/9623/4239/36/9/87/98"
- Girina O.A., Loupian E.A., Melnikov D.V. et al. Gtwr \(\) \(\) depu"\(\) depu"\(\) P qtyj gtp"\(\) xqrecp\(\) it qwr "qp"\(\) 36/3: " Lwpg."\(\) 4239"\(\) I"\(\) Uqxtgo gpp\{ g''r tqdrgo \{ ''f \) krvcpw\(\) qpp\{ q'' \) qpf \) ktqxcp\(\) c'\\ go r\(\) i'\\ \(\) i'' mquo quc\(\) 4239\(\) 0'\(\) 20\(\) 4239\(\) 0'\(\) 20\(\) 4239\(\) 36/5/539/5450'' \)
- Girina O.A., Melnikov D.V., Manevich A.G. "Ucvgmkg" o qpkqtkpi "qh" Mco ej cvmcp "cpf "Pqtvj gtp" Mwtkrgu" xqrecpqgu" ll"Uqxtgo gpp { g"r tqdrgo { "f kucpvukqppqi q" | qpf ktqxcpk{ c" \ go rk"k | "nquo quc." 4239e0 Xqrf) 360' Pq080 R03; 6/42; 0f qk=32043268 14292/9623/4239/36/8/3; 6/42; "
- $\label{eq:Gordeev} \textit{E.I., Girina O.A.} \ \ \, \textit{Xquecpqgu"cpf "vj gkt"j c} \ \, | \ \, \textit{ctf "vq"cxkcvkqp"l1} \quad \text{"J gtcnf "qh"vj g'Twukcp'Cecf g} \quad o \ \, \{\text{"qh"cyclc} \ \, \text{Uekgpegu042360'Xqn0': 60P q030'R03/: 0f qk~320'3356'IU323; 55383623229; 0'} \, | \ \, \text{Uekgpegu042360'Xqn0': 60P q030'R03/: 0f qk~320'3356'IU323; 55383623229; 0'} \, | \ \, \text{Uekgpegu042360'Xqn0': 60P q030'R03/: 0f qk~320'3356'IU323; 55383623229; 0'} \, | \ \, \text{Uekgpegu042360'Xqn0': 60P q030'R03/: 0f qk~320'3356'IU323; 55383623229; 0'} \, | \ \, \text{Uekgpegu042360'Xqn0': 60P q030'R03/: 0f qk~320'8356'IU323; 55383623229; 0'} \, | \ \, \text{Uekgpegu042360'Xqn0': 60P q030'R03/: 0f qk~320'8356'IU323; 55383623229; 0'} \, | \ \, \text{Uekgpegu042360'Xqn0': 60P q030'R03/: 0f qk~320'8356'IU323; 55383623229; 0'} \, | \ \, \text{Uekgpegu042360'Xqn0': 60P q030'R03/: 0f qk~320'8356'IU323; 55383623229; 0'} \, | \ \, \text{Uekgpegu042360'Xqn0': 60P q030'R03/: 0f qk~320'R03/: 0f qk~320'R0$
- Gordeev E.I., Girina O.A., Loupian E.A. et al."Vj g"XqrUcvXkgy "kphqto cvkqp" u{ uvgo "hqt 'O qpkqtkpi 'vj g "Xqrecpke"Cevkxk{ "kp"Mco ej cvnc"cpf "qp" vj g"Mvtkn" Kncpf u"1l"Iqwtpcn'qh!Xqnecpqmi { "cpf "Ugkno qmi {0' 42380'Xqn0'320P q0'80'R0'5: 4/5; 60f qk<32083561U296426853828226Z0"
- Kashnitskiy A.V., Balashov I.V., Loupian E.A. et al. "F gxgrqr o gpv'qh'uqhwy ctg" vqqnu'hqt"ucvgrkg"f cvc"tgo qvg" r tqeguukpi " kp" eqpvgo r qtct { "kphqto cvkqp" u{uyoo u" 11"Uqxt go gpp{g" r tqdrgo { "f kuvcpvukqppqi q" | qpf ktqxcpk{c'\ go rk'k| 'mquo quc042370Xqr0340P q030R0378/3920'
- Kashnitskiy A.V., Loupian E.A., Balashov I.V., Konstantinova A.M."Vj g"\gej pqm i {"qh"etgc\pi "vqqnu"hqt" rtqeguukpi "cpf "cpcn(| kpi "f c\cc"htqo "gz\tgo gn("ncti g"f kn\tkd\wgf "uc\cyn\kg"ctej k\cygu"ll"Qr \kn\cc"c\cv quhgt { "k" qngcpc."42380\Cq04; 0P q0'; 0R0994/9990\f qk\cc"32087594\CQQ42382; 2: "
- Loupian E.A., Balashov I.V., Burtsev M.A.et al. "F gxgmr o gpv"qh"lphqto cvlqp"u{uvgo u"f guki p"vgej pqmqi kgu"11" Uqxtgo gpp{g"r tqdrgo {"f krvcpvukqppqi q"| qpf ktqxcpk{c"\ go rk"k| "mquo quc04237c0Xqr0340P q070R075/970"
- Loupian E.A., Milekhin O.E., Antonov V.N.et al. "U{uvgo "qh'qr gtcvkqp"qh'lqkpv'kphqto cvkqp"tguqwtegu'dcugf "qp" ucvgrrkvg" f cvc'kp''y g'Rncpgvc'Tgugctej "Egpvgtu" hqt" Ur ceg''J {f tqo gvgqtqnqi {" 11'O gvgqtqnqi k{ c" k' i kf tqnqi k{ c042360P q0340'R0': ; 6; 90'
- Loupian E.A., Proshin A.A., Burcev M.A.et al. KMK egpygt 'hqt 'eqmgevkxg" wug" qh''ucvgmkyg" f cwc" ctej kxkpi ." r tqeguukpi "cpf 'cpcn{ uku''u{ uvgo u''cko gf "cv''uqnxkpi "vj g"r tqdngo u''qh"gpxktqpo gpwcn''uwf { "cpf "o qpkqtkpi " 11"Uqxtgo gpp{ g"r tqdngo { "f kncepekqppqi q"| qpf ktqxcpklc"\ go rk'k 'mquo quc0'4237d0'Xqn0'340'P q0'70'R0' 48564: 60"
- Proshin A.A., Loupian E.A., Balashov I.V. et al."Wpkhlgf "ucvgmkg"f cvc"ctej kxg"o cpci go gpv"r revhqto "hqt" tgo qvg" o qpkqtkpi "u{uvgo u" f gxgmqr o gpv"ll"Uqxt go gpp{g"rtqdrgo {"f krvcpekqppqi q" | qpf ktqxcpklc" \ go rk"k| "nquo quc042380"Xqr0350P q050R0; /490f qk=3204326814292/9623/4238/35/5/; /49"
- Sorokin A.A., Korolev S.P., Girina O.A. et al. "Vj g"kpvgi tcvgf "uqhvy ctg"r ncvhqto "hqt"c"eqo r tgj gpukxg"cpcn{ uku" qh"cuj "r nvo g"r tqr ci cvkqp"htqo "gzr nqukxg"gtwr vkqpu"qh"Mco ej cvnc "xqnecpqgu"ll"Uqxtgo gpp{ g"r tqdngo { "f kucpvukqppqi q"| qpf ktqxcpk{ c"\ go rk"k "nquo quc0'42380'Xqn0'350'P q0'60'R0'; /3; 0'f qk<3204326814292/9623/4238/35/6/; /3; 0'
- $\label{total continuous} Tolpin V.A., \ Balashov I.V., \ Efremov V.Yu. \ et \ al. "Vj g"I \ GQUO KU'u{ uvgo <"F gxgrqr kpi "kpvgthcegu'vq"qr gtcvg" f cvc"kp"o qf gtp"tgo qvg"o qpkqtkpi "u{ uvgo u"1l"Uqxtgo gpp{g"r tqdrgo { "f kuvcpvukqppqi q"| qpf ktqxcpk{c" \ go rk'k| ''nquo quc042330'Xqr0': 0P q0'50'R0'; 5632: 0'}$