1	Cenozoic deformation in the Tauern Window (Eastern Alps) constrained
2	by in-situ Th-Pb dating of fissure monazite
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13	Highlights:
14	• In-situ dating of hydrothermal monazite-(Ce)
15	• New constraints on the exhumation of the Tauern metamorphic dome
16	• Distinct tectonic pulses recorded from East to West
17	
18	Keywords: Hydrothermal monazite; Alpine fissures; Th-Pb dating; Tauern Window; Protracted
19	deformation

Abstract. Thorium-Pb crystallization ages of hydrothermal monazites from the western, central 21 22 and eastern Tauern Window provide new insights into Cenozoic tectonic evolution of the Tauern 23 metamorphic dome. Growth domain crystallization ages range from 21.7 ± 0.4 Ma to 10.0 ± 0.2 24 Ma. Three major periods of monazite growth are recorded between $\sim 22 - 20$ (peak at 21 Ma), 19 25 -15 (major peak at 17 Ma) and 14 - 10 Ma (major peak around 12 Ma), respectively interpreted 26 to be related to prevailing N-S shortening, in association with E-W extension, beginning strike-27 slip movements, and reactivation of strike-slip faulting. Fissure monazite ages largely overlap 28 with zircon and apatite fission tracks data. Besides tracking the thermal evolution of the Tauern 29 dome, monazite dates reflect episodic tectonic movement along major shear zones that took place 30 during the formation of the dome. Geochronological and structural data from the Pfitschtal area 31 in the western Tauern Window show the existence of two cleft generations separated in time by 4 32 Ma and related to strike-slip to oblique-slip faulting. Moreover, these two phases overprint earlier 33 phases of fissure formation.

34

35 1 Introduction

In-situ Th-Pb dating of hydrothermal fissure monazite-(Ce) (in the following simply monazite) has recently been demonstrated to be a reliable method for dating tectonic activity under retrograde metamorphic conditions (Bergemann et al., 2017, 2018, 2019, 2020; Berger et al., 2013; Fitz-Diaz et al., 2019; Gasquet et al., 2010; Gnos et al., 2015; Grand'Homme et al., 2016a; Janots et al., 2012; Ricchi et al., 2019). These studies conducted through the entire Alpine orogenic belt allowed constraining tectonic activity in relation with exhumation and fault activity under retrograde lower greenschist to sub-greenschist facies metamorphic conditions.

43 Hydrothermal fissure monazite, concentrating LREE, Th and U, generally crystallizes in Ca-poor

44	lithologies, outside the stability field of titanite or epidote/allanite. However, once formed,
45	hydrothermal processes may cause dissolution-reprecipitation events leading to resetting of the
46	monazite Th-Pb decay system in parts of the crystal. Chemically and isotopically homogeneous
47	crystals indicate a single, rapid growth episode (e.g., Grand'Homme et al., 2016a). However,
48	crystals showing different growth domains indicative of successive growth episodes are more
49	common. In other cases, parts of, or entire grains display a patchy zoning due to dissolution-
50	reprecipitation processes (e.g., Ayers et al., 1999; Grand'Homme et al., 2016b). These processes
51	involve element fractionation resulting in crystal zones with often distinct Th/U values (Seydoux-
52	Guillaume et al., 2012).
53	The advantage of using hydrothermal monazite for dating tectonic activity is related to the high
54	closure temperature of monazite of >800°C, implying that diffusion in monazite is negligible
55	(Cherniak et al., 2004; Gardés et al., 2006, 2007) under P-T conditions at or below 450 – 500 °C
56	and 0.3 – 0.4 GPa (e.g., Mullis et al., 1994; Mullis, 1996; Sharp et al., 2005) where hydrothermal
57	fissures form. Fissure monazites date crystallization following chemical disequilibrium within a
58	fissure. This causes a dissolution-precipitation cycle that may include dissolution or partial
59	dissolution of existing fissure monazite. This has the consequence that late
60	dissolution/precipitation steps may be well recorded, whereas earlier growth domains may be
61	completely destroyed. Thus, monazite crystallization due to chemical disequilibrium is
62	interpreted as being related to tectonic activity (e.g. volume change, fissure propagation,
63	exposure of fresh host-rock, delamination of fissure wall, seismic activity, fluid loss or gain).
64	Recent studies have shown that fissure monazite typically forms between generally lower to
65	higher 200 – 400°C (Gnos et al., 2015; Janots et al., 2019). For this reason, fissure monazite ages
66	are generally interpreted as dating crystallization or re-crystallization. Monazite geochronology
67	can thus be utilized to constrain shear and damage zone activity under greenschist and very-low

grade metamorphic conditions at least down to 200°C (e.g. Bergemann et al., 2017, 2018; Gnos
et al., 2015).

70 Fissures and clefts develop close to the brittle-ductile transition ($< 450^{\circ}$ C, Mullis, 1996) and are 71 usually oriented perpendicular to the foliation and lineation of the host-rock (Gnos et al., 2015). 72 Fissures are generally straight when they form and either became enlarged by subsequent tectonic 73 activity to form fluid-filled dm- to m- sized clefts, displaying a more open shape with rounded 74 surfaces (e.g. Ricchi et al., 2019) when the stress field retains the same orientation, or became 75 completely filled to form mineral veins. However, they may show complex shape when the stress 76 field direction changes during deformation. Fluid inclusion studies (e.g., Mullis, 1996) show that 77 clefts generally suffered several deformation episodes.

78 Interaction of the fluid that fills the fissures with the surrounding rock leads to dissolution of 79 minerals in the wall rock and mineral precipitation in the fissure. As long as deformation 80 continues, fluid-filled clefts will react to deformation via dissolution-precipitation cycles due to 81 disequilibrium between fluid, rock wall and mineral assemblage within the cleft (e.g. Putnis, 82 2009). Thus, hydrothermal minerals like monazite do not only grow following the initial fissure 83 formation but form, continue to grow, or dissolve during subsequent deformation stages. The 84 timing of these growth or alteration stages may not always be resolvable with the precision of 85 currently available geochronological methods, but different growth stages may be distinguishable 86 through differences in the chemical composition (Grand'Homme et al., 2018). In contrast to the 87 surrounding country rock, the fissures and clefts remain highly reactive at low temperature due to 88 the presence of fluids. For this reasons, deformation steps during brittle deformation may be 89 registered through mineral growth or recrystallization in clefts (e.g., Berger et al., 2013) down to 90 conditions where clay minerals form in fault gauges.

91 The Tauern window (TW) is a thermal and structural dome of the eastern Alps (Fig. 1) exhumed 92 over a period of about 30 Ma starting from the Early Oligocene (e.g. Rosenberg et al., 2018; 93 Schmid et al., 2013). Previous monazite crystallization ages obtained in the eastern sub-dome of 94 the TW record tectonic activity between 19.0 ± 0.5 and 15.0 ± 0.5 Ma (Gnos et al., 2015). In the 95 current study, monazite geochronology is extended to the entire TW, in order to investigate its 96 Cenozoic deformation history. We particularly aim to establish a chronological record for the 97 younger exhumation history recorded by fissure monazite crystallization, to be compared with 98 known deformation phases.

99 A total of 23 monazite grains together with provenance data, and in some cases host-rock 100 information were dated (Table 1). Seven grains come from the western limb of the TW (INNB1 101 ZEI1, SCHR1, MAYR4, PFIT1, BURG2 and PLAN1; samples 1 to 7; Fig. 1), another seven 102 grains come from the eastern border of the western sub-dome (central TW; SCHEI1, HOPF2, 103 GART1, NOWA3, GART3, STEI2 and KNOR1; samples 8 to 14; Fig. 1) and nine grains were 104 collected in the eastern sub-dome (KAIS6, SALZ18, LOHN4, ORT1, EUKL2, HOAR1, 105 MOKR1, SAND1 and REIS1; samples 15 to 25; Fig. 1, Table 1). In order to capture at best the 106 tectonic activity during the exhumation of the TW, the investigated samples were selected in a 107 way that gives priority to sample localities in regions affected by major fault zones and at 108 lithological boundaries. In the following we will discuss the ages in term of sample ID numbers 109 (1-25) provided by Table 1.

110

111 **2** Geologic settings

In the largest tectonic window of the Austroalpine nappe stack, the TW, Penninic (GlocknerNappe System and Matrei Zone; Fig. 1) and Subpenninic nappes (mainly the Venediger Duplex)

are exposed (e.g. Schmid et al., 2013; Fig. 1). The TW metamorphic and structural dome consists 114 115 of two sub-domes, with E-W striking upright folds in the internal parts and bordered by two 116 major normal faults, the Katschberg Normal Fault (KNF) in the East and the Brenner Normal 117 Fault (BNF) in the West (Fig. 1). The western sub-dome is dissected by numerous sinistral shear 118 zones (Ahorn Shear Zone (ASZ), Olperer Shear Zone (OSZ), Tuxer Shear Zones (TSZ), Greiner 119 Shear Zone (GSZ) and Ahrntal Shear Zone (AhSZ)) and is bordered by the Salzach-Ennstal-120 Mariazell-Puchberg fault (SEMP) in the north (Fig.1). The eastern sub-dome is bordered to the 121 east by the Katschberg Normal Fault (KNF), continuing to the north into the dextral Katschberg 122 Shear Zone System (KSZS), and to the south into an unnamed sinistral shear zone and oriented 123 parallel to the Mölltal Fault (MöF). The deformation history of these fault complexes will be 124 discussed later.

125 The Alpine evolution of the TW started in the Early Paleocene with the accretion and subduction 126 of the Piemont-Liguria Ocean (Matrei Zone; Fig. 1) under the Apulian margin (Austroalpine 127 nappe stack; e.g. Schmid et al., 2004, 2013; D1 deformation of Schmid et al., 2013; Fig.1, Table 128 2). In the Middle Eocene, the Valais Ocean and parts of the distal European margin (Glockner 129 Nappe System, Eclogite Zone and parts of the Modereck Nappe System; Fig. 1) were equally 130 subducted below the Austroalpine nappe stack and the Matrei Zone accreted during D1 131 deformation (D2 deformation of Schmid et al. 2013; Table 2). In the Late Eocene, exhumation 132 was achieved by extrusion of the high-pressure units that went together with major folding of the 133 D2 thrust formed between the subducted Glockner Nappe System and Modereck Nappe System 134 (D3 deformation of Schmid et al. 2013; Table 2). In the Early Oligocene, nearly 135 contemporaneous break off of the subducting European slab and formation of the Venediger 136 Duplex (crustal-scale duplex structure) occurred, followed by the "Tauernkristallisation" 137 (reheating of the whole nappe stack to amphibolite-facies conditions) (D4 deformation of Schmid 138 et al. 2013; Table 2). This was followed by an inversion of subduction polarity at ~23 to 21 Ma 139 (e.g., Rosenberg et al., 2018; Scharf et al., 2013; Schmid et al., 2013; Table 2). The following 140 exhumation of the TW started in the Early to Middle Miocene by Alpine N-S collisional 141 shortening and E-W orogen-parallel extension leading to folding, erosion and lateral extrusion 142 through shear zone development (e.g. Luth and Willingshofer, 2008; Rosenberg and Berger, 143 2009; Rosenberg and Garcia, 2011; Schmid et al., 2004, 2013; Selverstone, 1988; D5 144 deformation of Schmid et al., 2013). Previous shear zone age dating in the TW was achieved 145 using different geochronometers: Rb-Sr whole-rock-phengite dating (20 Ma; Blanckenburg et 146 al., 1989), Rb – Sr whole-rock-white mica dating (39 – 16 Ma; Glodny et al., 2008), Sm – Nd dating on garnet (27.5 – 20 Ma; Pollington and Baxter, 2010, 2011) and ⁴⁰Ar/³⁹Ar dating on mica 147 148 (35 – 28 Ma; Urbanek et al., 2002). A recent detailed study by Schneider et al. (2013) using texturally-controlled in-situ ⁴⁰Ar/³⁹Ar dating of syn-kinematic phengite and K-feldspar returned 149 150 ages between 33 - 15, 24 - 12 and 20 - 7 Ma. They were interpreted as recording deformation 151 along three major shear zones (ASZ, TSZ and GSZ respectively) of the western sub-dome.

152

153 Sample location

Fissure monazite is rare and difficult to find, meaning that this study could not have been conducted without the help of crystal searchers who provided samples. Fissure monazites were selected to cover all parts of the TW areas with known shear zones within it. It was, however, unfortunately not possible to obtain exact coordinates for all of the samples (Table 1). This is due to the rarity of fissure monazite, so that some samples were obtained from old finds or collections. In other cases, the crystal searcher could not anymore precisely identify the fissure in which the monazite was found. These samples are marked with "approx." in Table 1. We could therefore only revisit some of the sample locations in order to add structural information. Experience from other parts of the Alps (e.g. Bergemann et al., 2017, 2019; Ricchi et al., 2019) shows that fissure monazite sampled within the damage or central zones of a shear zone generally records shear zone activity well. Information on the source localities, host-rocks, degree of alpine metamorphism and mineral associations is in Table 1.

166

167 **3** Methods

168 The crystals where polished individually on a lapidary disk and embedded in epoxy together with 169 the monazite standard "44069" (425 Ma, Aleinikoff et al., 2006), following the same procedure 170 as Bergemann et al. (2017). Backscatter electron (BSE) images were acquired in order to 171 investigate the internal textural features of each grain (e.g. zoning, evidences of alteration, etc.) 172 using an EDS-equipped JEOL JSM7001F and a Zeiss DSM940A electron microscope at the 173 University of Geneva with a beam current of 3.5 nA and acceleration voltage of 15kV. BSE 174 images helped in the selection of Secondary-Ion Mass Spectrometry (SIMS) spot analysis points, 175 carefully placed in chemically distinct domains.

176 Ion probe U-Th-Pb analyses of 15 monazite crystals were conducted at the SwissSIMS Ion 177 microprobe facility, University of Lausanne, Switzerland and analyses of another 8 crystals were 178 performed at the Nordsim facility, Swedish Museum of Natural History, Stockholm (Tables 1 and 179 3). Both laboratories are equipped with a Cameca IMS 1280-HR instrument. The instruments were run following the procedure of Janots et al. (2012), applying a -13 kV O²⁻ primary beam, an 180 181 intensity of ~3 and 6 nA focused on the sample (SwissSIMS and Nordsim respectively) to 182 produce a spot of 15 - 20 micron in diameter. A mass resolution of 4300 - 5000 (M/ Δ M. ²⁰⁸Pb/²³²Th at 10% peak height) and an energy window 40 eV were applied, with data collection 183

in peak hopping mode using an ion-counting electron multiplier. All the unknowns were standardised to 44069 (425 Ma; Aleinikoff et al., 2006) monazite and the uncertainty on the standard 208 Pb/ 232 Th – ThO/Th calibration in each session was 1.7% on average.

A ²⁰⁷Pb and ²⁰⁴Pb common lead (Pbc) correction calculated at time zero was applied to the data 187 188 acquired at the SwissSIMS and Nordsim (Table 3), using the terrestrial Pb evolution model of 189 Stacey and Kramers (1975). The Cameca Customisable Ion Probe Software (CIPS) was used for data reduction. ²⁰⁴Pb- and ²⁰⁷Pb-corrected ages agree within uncertainty (Table 3), but we 190 preferred to discuss ²⁰⁷Pb-corrected ages because they are more robust and consistent (better 191 192 statistics and less scatter in the data). Calculation of weighted mean ages, based on ²⁰⁷Pb-193 correction, and plotting was carried out using the program IsoPlot Ex 4.1 (Ludwig, 2003). Single 194 and weighted mean ages (or average ages) are quoted at the 1 sigma and at 95% confidence level 195 in the text, respectively.

Weighted mean ²⁰⁸Pb/²³²Th ages were calculated for each growth domain following the approach 196 197 of Bergemann et al. (2017, 2018, 2019, 2020) and Ricchi et al. (2019). Distinct chemical and 198 textural domains were carefully defined in each grain based on Th concentrations as function of 199 U concentrations and BSE image information. Since fissure monazite is dissolved and re-200 precipitated under changing chemical conditions (e.g. Grand'Homme et al., 2018), spot analyses 201 affected by Pbc (resulting in older dates directly related to higher Pbc, i.e. positive Age-f208 202 correlation), inclusions or with high uncertainty ($1\sigma > 1$ abs.) were removed from the dataset and 203 marked in italic in Table 3. However, spot dates located on dissolution trails, generally providing 204 younger dates, were considered in the age ranges because they likely record a later phase of 205 monazite crystallization.

207 4 Results

208 4.1 Field observations

209 An example of deformed fissures and different stages of fissure formation is well exposed in 210 outcrops along the road leading to Pfitscherioch (in vicinity to the PFIT1 sample locality 5, 211 Western TW; Table 1), where two fissure generations are present (Fig. 2a and b). In this outcrop 212 an earlier fissure generation (C_2 , green ellipses) is partly deformed during subsequent 213 deformation, and a younger generation of fissures (C₃, blue ellipses) is also present. Sub-214 horizontal fissures (C₃) seem linked to a strongly inclined lineation (L₃, blue arrows), whereas 215 older sub-vertical fissures (C₂) seem related to a weakly-inclined strike-slip lineation (L₂, green 216 arrows). The older fissures are wider and sigmoidal in shape and contain muscovite which is not 217 found in the younger fissures. In some cases younger fissures crosscut older ones (Fig. 2b). 218 Moreover, the orientation of the foliation ($S_{2,3}$, Fig. 2c) of these two fissure generations (C_2 and 219 C_3) is different from the foliation (S_1 , Fig. 2c) of early fissure formation mainly observed in the 220 eastern part of the TW (C₁, Fig. 2c, discussed below). This suggests that in the Pfitscherjoch area, 221 early fissures C₁ were overprinted by younger tectonic movements.

222 The large majority of the fissures present in all the investigated localities are oriented sub-223 vertically (C1 and C2 type in Fig. 2c), roughly striking NE-SW. For C2, this would indicate a 224 similar direction of extension for the development of this fissure type, which is in line with 225 paleostress orientations provided by Bertrand et al. (2015). However, even if all sub-vertical 226 fissures are sub-parallel, at least two generations exist. (i) Early sub-vertical fissures (C_1 , Fig. 2c) 227 are related to flat foliation (S_1) and E-W stretching lineation (L_1) , these are oriented perpendicular 228 to the main fold axes (and lineation) of the TW and are associated with E-W extension (e.g. Gnos 229 et al., 2015; Rosenberg et al., 2018; Schneider et al., 2013). (ii) Younger sub-vertical fissures (C₂, 230 Fig. 2c) are associated with sub-vertical E-W oriented foliation (S₂) and flat to inclined lineation 231 (L₂), and are oriented perpendicular to strike-slip faults (mainly in the western part of the TW; 232 Fig. 2c). At Pfitscherjoch, the shape of C₂ fissures, indicating overprinting by sinistral sense of 233 shear, is in agreement with the larger scale sinistral shearing of the GSZ shear zone. (iii) A third 234 generation of fissures (C₃, Fig. 2c) is locally observed, for example, in the Pfitscherjoch locality 235 (Fig. 2a and b) and is at high angle with C₁ and C₂ fissures. This third fissure generation observed 236 in the Pfitscherjoch locality is associated with a subvertical E-W striking foliation (S₃). Stretching 237 lineation related to the BNF activity is sub-parallel to C₃ lineation, however its foliation is 238 striking N-S (Fig. 2c). We suggest that C₃ fissures are related to oblique-slip movements in line 239 with the observed E-W striking foliation and not to the BNF activity.

240

4.2 4.2

4.2 Monazite dating and composition

242 The monazite grains selected for in-situ Th-Pb dating are mm-sized and, when BSE zoning is 243 visible, it shows two distinct textures: regular and patchy (Figs. 3, 4 and 5; Table 4). The term 244 regular refers to crystals showing growth-zonation, whereas a patchy texture is interpreted as 245 replacement by secondary dissolution/reprecipitation processes (e.g. Ayers et al., 1999; 246 Bergemann et al., 2018, 2019, 2020; Gnos et al., 2015). Thorium and U contents of the dated 247 fissure monazites display a large variability, ranging between ~200 to 63,000 ppm Th and ~2 to 2000 ppm U, with variations in Th/U ratio from 1 up to \sim 7000 (Figs. 3, 4 and 5; Table 3). ²³²Th-248 249 ²⁰⁸Pb ages presented on the right-hand panel of figures 3, 4 and 5 are arranged according to the 250 order established in Table 3. A detailed description of each monazite grain is provided in the 251 Supplementary Information. Average ages are reported for group of dates on texturally and/or 252 chemically similar domains. In order to ensure that a group of dates from a domain is internally

consistent, rare outliers have been excluded to bring the MSWD within acceptable values
(MSWD < 3; Spencer et al., 2016). In a few cases the dates for specific monazite domains have a
scatter above analytical uncertainty (e.g. grain 6, 9, 24), which probably reflects the complex
formation process of fissure monazite.

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The investigated grains from the western part of the western TW sub-dome come from the Venediger Duplex, with the exception of sample 6, which comes from the Glockner Nappe System (Fig. 1; Table 1). The samples 2, 4 and 6 were collected near to the major Brenner normal fault, which delimits the TW to the west, and samples 1, 3, 5 and 7 were collected in the vicinity of sinistral strike-slip faults (Fig. 1). Average growth domain ages range from 20.9 ± 0.6 to $10.0 \pm$ 0.2 Ma (samples 3 and 2) with the youngest ages recorded in the western TW (Figs. 1, 3 and 6a; Tables 3 and 4).

The central part of the TW displays growth domain ages between 18.3 ± 1.1 and 10.4 ± 0.2 (samples 8 and 14; Figs. 1 and 4; Tables 3 and 4), but the majority of the dated crystals in this area record ages around 17 Ma (Fig. 6b). Samples 8, 9 and 10 were collected between the eastern and western termination of the ASZ and the SEMP fault (Fig. 1). Another three samples (11, 12 and 13; Table 1) were collected in the northern prolongation of the AhSZ and a seventh monazite (grain 14) was sampled near the southern border of the eastern part of the western sub-dome (Fig. 1).

272 The oldest ages are principally recorded in the eastern part of the TW at around 21 Ma (Fig. 6c).

Average ages of growth domains range from 21.7 ± 0.4 to 13.6 ± 0.6 Ma (samples 19a and 25;

Figs. 1, 4 and 6c; Tables 3 and 4). The samples were mainly collected at the western border of the

eastern sub-dome, in the Venediger Duplex or near the boundary with the Glockner/ Modereck

Nappe Systems (Fig. 1). Sample 25 was taken at some distance from the other samples, near the
south-eastern border of the eastern sub-dome (Fig. 1).

278

5 Discussion

280 **5.1** Fissure monazite ages

281 The oldest monazite ages of 21.7 ± 0.4 to 19.9 ± 0.3 Ma (found in samples 19a and 20; Figs. 1, 6c 282 and 7a and d) are common in the eastern TW, but can also be found in the western area (Fig. 7a, c 283 and d, red symbols). This in line with regional fault activity recorded at ~21 Ma based on Pleuger 284 et al. (2012) (Fig. 8a) which corresponds to the main indentation phase (Favaro et al., 2017). We 285 interpret these as a first monazite crystallization event during E-W extension in association with 286 the dome formation (N-S shortening) when the existing clefts reached P-T conditions at which 287 fissure monazite starts to grow (phase 1, red symbols in Fig. 7). When comparing an assumed 288 fissure formation temperature of 450°C (typically obtained in guartz fluid inclusion studies on 289 early alpine fissures, (e.g., Mullis, 1996) with thermochronological data of the eastern TW 290 (compiled in Wölfler et al. 2012), the onset of fissure formation, predating primary monazite 291 crystallization, is estimated at around 25 Ma. Based on a comparison with thermochronological 292 data, monazite crystallization recorded between 19 - 15 Ma was estimated to have occurred at 293 $\sim 200 - 300^{\circ}$ C in the eastern TW (Gnos et al., 2015). New monazite ages from this study in the eastern TW are up to ~22 Ma (sample 19 in Fig. 1), suggesting that early monazite crystallization 294 295 in the area may have occurred at higher temperatures of $350 - 400^{\circ}$ C.

While early fissure formation is related to E-W extension (leading to flat foliation and E-W mineral lineations; Fig. 2c), we suggest that monazite formation also occurred along the sinistral

298 strike-slip to oblique-slip movements (vertical foliation and flat to inclined lineation; Fig. 2), 299 particularly developed in the central and western part of the TW (e.g. Rosenberg et al., 2018; 300 Schneider et al., 2013). These shear zones developed as a result of bending of the E-W oriented 301 upright folds around a vertical axis (leading edge of the Dolomite indenter) (Fig. 1). This 302 occurred when N-S shortening could no longer be accommodated by folding and doming within 303 the TW. Associated with these movements is the formation of a younger generation of fissures 304 (see Pfitscherjoch example above), the peak activity of which is recorded at ~ 17 Ma (phase (2), 305 green symbols on figure 7). This fissure generation is associated with a steep foliation and a flat 306 lineation (Fig. 2), but sub-parallel in orientation to the earlier fissure formation. The monazite 307 ages at ~17 Ma found in the western and central TW (Figs. 1, 6 and 7; samples 5, 8, 13; Table 4) 308 are in association with sinistral fault zones, as in the Pfitscherjoch region or near the eastern 309 termination of the ASZ and AhSZ faults (see above). Unfortunately, we do not have structural 310 information on the westernmost and easternmost analysed samples (6 and 25; Figs 1, 6 and 7), 311 but they can be speculated to also have formed in association with a strike slip shear zone or the 312 BNF and KNF in the case of samples 6 and 25 respectively. At larger scale, these movements 313 seem to have been associated with the development of the sinistral Giudicarie Fault (GF, located 314 at the southwestern corner of the TW), offsetting the Periadriatic Fault (PF; Fig. 8b, e.g., Pleuger 315 et al., 2012). Ages of ~17 Ma are also recorded in the eastern part of the TW, likely linked to the 316 KNF and Mölltal Fault (MöF) activity (samples 16, 21, 24 and 25; Fig. 7a and d; e.g. Favaro et 317 al., 2017). In grains located in the western part of the eastern sub-dome, in the prolongation of the 318 MöF (e.g. Kurz and Neubauer, 1996) (Fig. 1), numerous monazite growth domains yield ages 319 between 15.6 ± 0.7 and 15.0 ± 0.5 Ma (bracketed by samples 22 and 21 from Gnos et al., 2015; 320 Figs 1, 6c, 7a and d; green circles on figure 7d; Table 4). These ages date the latest known 321 activity of this shear zone to ~15 Ma. Whereas younger ages, associated with reactivation of fault 322 zones are widespread in the central and western TW, tectonic movements seem to cease in the323 eastern TW after this time (Fig. 8c).

324 The youngest monazite growth domain ages, principally recorded in the western sub-dome, range 325 from 13.2 ± 0.3 to 10.0 ± 0.2 Ma (samples 5 and 2; Table 4), indicate steps of reactivation of the 326 different sinistral strike-slip to oblique-slip movements along different faults (phase (3) and blue 327 symbols on figure 7). Based on our monazite crystallization data, the oldest activities of this vounger phase are recorded near the GSZ (sample 5) and in the prolongation of the AhSZ 328 329 (samples 7 and 9). The youngest activities are recorded in association with the ASZ, OSZ and 330 TSZ on figure 7a-c; samples 1, 2 and 4), and in the central TW in an area located south of the 331 main fault systems (sample 14, Figure 7a). In addition to faults activity at ~12 Ma (Fig. 8), coeval 332 strike-slip activity has also been documented in many areas of the central and western Alps (e.g., 333 Bergemann et al., 2017, 2019; Berger et al., 2013; Gasquet et al., 2010; Grand'Homme et al., 334 2016a; Pleuger et al., 2012; Ricchi et al., 2019). 335 In summary, in the western TW, monazite ages (Fig. 1) constrain the activities of the ASZ (18 – 336 12 Ma, samples 8 and 9), AhSZ (17 - 12 Ma, samples 13 and 7), TSZ/OSZ (11.5 - 10 Ma, 337 samples 1 and 2; older ages of sample 3 are probably related to extensional unroofing) and GSZ

338 (17 – 13 Ma). In the eastern part, the MöF is active between 19 and 15 Ma.

339

340 5.2 Comparison with shear zone dating

341 A number of attempts to date shear zone activity in the TW using Ar-Ar, Rb-Sr and Sm-Nd

342 techniques have been made in the past, which were, however, based on mineral separation

techniques without a clear structural control on the dated grains (e.g., Blanckenburg et al., 1989;

344 Glodny et al., 2008; Pollington and Baxter, 2010, 2011; Urbanek et al., 2002). An exception to this is the ⁴⁰Ar/³⁹Ar study of Schneider et al. (2013) on syn-kinematic phengite and K-feldspar 345 346 which will be used in the following as a comparison (Table 2). Fissure monazite ages largely 347 corroborate this work, similarly showing the longevity of different shear zones in the TW. The 348 ages confirm that even though most of the dated monazite samples are only located in the damage 349 zone in the vicinity of the core of the shear zones, fluid-filled fissures provide a sensitive system 350 where tectonic activity triggers fluid-enhanced dissolution/precipitation reactions at lower 351 greenschist to sub-greenschist facies conditions.

352 While Schneider et al. (2013) obtained crystallization age ranges of 33 – 15 Ma for the ASZ, 24 – 353 12 Ma for the TSZ and 20 - 7 Ma for the GSZ (Table 2), our data confirms fluid activity, and thus 354 possible tectonic activity, at 18 - 12, 11.5 - 10 and 17 - 13 Ma respectively (Fig. 7). However, 355 the oldest dates from Schneider et al. (2013) might also be interpreted as older grains that have 356 been aligned in the new foliation (Fig. 8). The data presented here indicate that all of the shear 357 zones where potentially active at least until $\sim 13 - 12$ Ma, and the Tuxer and/or Olperer shear 358 zones even until ~7 Ma as suggested by younger dates observed in grain 2 (Figs. 3b, 6a and 7, Tables 3 and 4). However, the fissure monazite data does not date the initiation of the GSZ 359 360 (Selverstone et al., 1991), nor the earliest activity of the TSZ (greenschist to amphibolite facies; 361 Selverstone et al., 1984, 1991) or the ASZ (greenschist facies; Cole et al., 2007), since their 362 formation already started at amphibolite facies conditions. As Alpine fissures only form under 363 greenschist facies conditions, the oldest monazite crystallization ages are younger than the data 364 obtained by Schneider et al. (2013). This indicates that shear zone activity started earlier than the 365 fissure monazite record. As the monazite age range of the younger fault activity is comparable to 366 the data of Schneider et al. (2013), but is not the same for individual shear zones, it seems likely 367 that all shear zones of the western TW were active as recently as 8 - 7 Ma.

368

369 5.3 Comparison with fission track data

370 There is a wealth of zircon fission track (ZFT) data that can assist in describing the exhumation

- and low grade tectonic activity in the TW (Bertrand, 2014; Bertrand et al., 2017; Dunkl et al.,
- 372 2003; Fügenschuh et al., 1997; Mancktelow et al., 2001; Most, 2003; Pomella et al., 2011;
- 373 Steenken et al., 2002; Stöckhert et al., 1999; Viola et al., 2001; Wölfler et al., 2008) and apatite
- fission track (AFT) data (Bertrand, 2014; Bertrand et al., 2017; Coyle, 1994; Di Fiore, 2013;

Foeken et al., 2007; Fügenschuh et al., 1997; Grundmann and Morteani, 1985; Hejl, 1997;

376 Mancktelow et al., 2001; Most, 2003; Pomella et al., 2011; Staufenberg, 1987; Steenken et al.,

377 2002; Viola et al., 2001; Wölfler et al., 2008, 2012).

378 Three cross sections, DD' (perpendicular to the BNF), AA' (perpendicular to the western limb of

the western sub-dome) and EE' (parallel to the main axial plane of the TW) are presented in

figure 7, redrawn after Bertrand et al. (2017) and Schmid et al. (2013). Zircon and apatite fission

track data compiled by Bertrand et al. (2017) are displayed in the lower part of figure 7b-d and

382 compared to fissure monazite ages. As described in Bertrand et al. (2017) (first model), fission

tracks data along AA' cross section (Fig. 7c) nicely display a dome-like shape with younger ages

recorded near the sub-dome axial plane, were cooling was slower. By contrast, along the EE'

385 longitudinal cross section (Fig. 7d), ZFT and AFT are younger in the western and eastern border

of the TW where the two major extensional faults, the BNF and KNF, are respectively located.

387 Perpendicular to the BNF (DD' cross section, Fig. 7b), the fission tracks record cooling ages

- 388 younging from the footwall toward the plane of the normal fault (from 10 to 4 Ma for AFT;
- 389 second model of Bertrand et al. 2017). Along EE' cross section, the youngest monazite ages (15 –
- 390 10 Ma) lie between zircon and apatite fission track data (grey and blue symbols), whereas the

391 older ages (>17 Ma) do not follow the cooling trend and are equal to or older than the ZFT data.

392 This means that at least the fissure monazites recording older ages crystallized somewhere above

393 ZFT closure temperatures of ~240 – 280 °C (Bernet, 2009; Bernet and Garver, 2005; Reiners,

394 2005; Yamada et al., 1995) (Fig. 7d).

395

396 5.4 Monazite Th/U as monitor of oxidizing and reducing conditions

Extreme low and high Th/U ratios described in fissure monazite by Gnos et al. 2015 (T1, T2 and T3 sample in figure 9) are also observed in some grains from this study (red and blue labels on figure 9). Hydrothermal monazite from the TW associated with hematite in fissure typically displays very high Th/U ratios of around 1200 (Fig. 9, red labels; Table 1), whereas grains obtained from graphite-bearing host rocks show very low Th/U ratios around 8 (Fig. 9, blue labels; Table 1). This attests for oxidizing and reducing fluid conditions in the fissure environment, respectively.

The Th/U in monazite grains PFIT1 and MOKR1 would instead record a dynamic oxidation environment due to variable fluid conditions. In PFIT1 monazite the Th/U decreases from core to rim, whereas within MOKR1 the opposite evolution is observed (Fig. 9). Thus in the first case the fissure environment evolves toward reducing conditions whereas in the second case there is an evolution towards more oxidizing conditions. Many of the other grains indicate intermediate oxidizing conditions and they could not be assigned to one of the two categories defined above, as the presence of either hematite or graphite is uncertain (Fig. 9; grey labels).

411

412 6 Conclusions

413 Th-Pb ages of fissure monazite provides an extended record of exhumation of the TW during the 414 Miocene. The investigated monazites crystallized at temperatures <400°C in the presence of 415 hydrothermal fluids that circulated in open fissures formed through tectonic movements. The Th-416 Pb ages recorded by fissure monazites are in general agreement with previously published 417 geochronological data and range between 21.7 ± 0.4 Ma to 10.0 ± 0.2 Ma. Spot dates suggests 418 that monazite crystallization in the metamorphic and structural TW dome occurred over a period 419 of ~16 Ma. The combination of structural and geochronological information allows relating 420 monazite growth with tectonic movements that affected the TW. The three major growth episodes 421 identified in this study, by dating monazite growth domains, are interpreted to be associated with 422 N-S shortening associated to E-W extension (22 - 20 Ma), contemporaneous N-S shortening and 423 sinistral strike-slip movements (19 - 15 Ma) and reactivation of strike-slips/normal faulting (14 - 15 Ma)424 10 Ma). Overall, fissure monazite age recording indicates that in the TW Cenozoic faults show 425 increased activity at ~ 21 , ~ 17 and ~ 12 Ma, probably due to reorganization of plate movements 426 occurring at those times. Comparison of Th-Pb fissure monazite crystallization ages with existing 427 crystallization and cooling ages (e.g. AFT, ZFT, white mica from fault zones) show that the latest 428 stages of monazite crystallisation occurred at temperatures between apatite and zircon fission 429 track "closure" temperatures. This enlarged dataset also supports previous observations on fissure 430 monazites chemistry displaying extremely high Th/U ratios (~1200) under oxidizing conditions 431 in association with hematite.

432

433 *Data availability.* The data used in this study are available in Tables 3 and 4.

434 *Author contributions.* Fissure monazite samples were organized by EG and FW. Monazite for

435 dating were selected by ER, CAB, EG and AB according to tectonic settings and fault activity of

436	the study area. ER prepared the manuscript during her PhD project under the supervision of EG,
437	with contributions from all co-authors. Sample preparation and BSE imaging was performed by
438	ER and CAB. Data acquisition and reduction at the SwissSIMS and NordSim facility was
439	respectively carried out by ER and CAB under the supervision of DR and MJW.
440	Competing interests. The authors declare that they have no conflict of interest.
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653 Figures:

654 Fig. 1: Tectonic map of the TW dome modified after Bertrand et al. (2017), Scharf et al. (2013), Schmid et 655 al. (2013) and Schneider et al. (2013). Yellow stars on the map represent samples locations and numbers 656 inside the stars refer to samples listed in Table 1. Range of weighted mean growth domain ages are 657 indicated for each grain from this study and Gnos et al. (2015), labelled in black and green respectively 658 on the map (see Table 4 for an exhaustive summary of all the ages). Only the spot date range is indicated 659 for grains 1, 4 and 6. Locations of AA', BB' and CC' cross sections are indicated by black lines and 660 individual cross sections are presented in figure 6 together with monazite crystallization ages. Two normal 661 faults delimit the western and eastern border of the TW, the Brenner Normal Fault (BNF) and the 662 Katschberg Normal Fault (KNF) respectively. Note that the KNF prolongation results in dextral and 663 sinistral strike-slips in the North and South respectively (KSZS: Katschberg Shear Zone System). Several 664 sinistral strike-slip faults (AhSZ: Ahrntal Shear Zone; ASZ: Ahorn Shear Zone; DAV: Defereggen-Antholz-665 Vals Fault; GSZ: Greiner Shear Zone; InF: Inntal Fault; MüF: Mur-Mürz Fault; NF: Niedere Tauern 666 Southern Fault; OSZ: Olperer Shear Zone; SEMP: Salzach-Ennstal-Mariazell-Puchberg Fault; SpSZ: 667 Speikboden Shear Zone; TSZ: Tuxer Shear Zones; ZWD: Zwischenbergen-Wöllatratten and Drautal 668 Faults), dextral shear zones (HoF: Hochstuhl Fault; IsF: Iseltal Fault; KLT: Königsee-Lammertal-669 Traunsee Fault; Mölltal Fault (MöF); PF: Pustertal Fault) and a reverse fault (MM: Meran-Maules 670 Fault) are also visible in red on the map.

Fig. 2: a) Two generations of late fissures visible in a road outcrop located between monazite locality (46°59.436'N/011°39.240'E) and Pfitscherjoch. Steeply oriented fissures (C_2 : ~090/65) are older and deformed (green ellipses), and seem related to a flatter lineation (L_2 : ~250/30, green arrows) visible on some of the foliation planes. Younger and flatter oriented fissures (C_3 : ~085/30) are strait (blue ellipses), and seem related to a steeper lineation (L_3 : 270/70, blue arrows). These observations indicate that a fissure can be deformed during its existence. Lengths of hammer handle is 60 cm. b) Enlargement of a). c) 677 Schematic illustration of the 3 fissure generations observed in this study (C_1 , C_2 and C_3), together with 678 respective orientation, foliation (S_1 , S_2 and S_3) and lineation (L_1 , L_2 and L_3). The first fissure generation 679 (C_1) is related to E-W extension, the second fissure generation (C_2) is linked to strike-slip movements and 680 the third fissure generation (C_3) is related to the oblique-slip movements.

Fig. 3: Chemical, textural and geochronological information of monazite grains from the western TW. On
BSE images, colour-filled circles correspond to ion probe spot locations. Note that the square-shape
shading in grain 4 is due to an artefact of composing BSE images with diverse contrast.

Fig. 4: Chemical, textural and geochronological information of monazite grains from the central TW. On
BSE images, colour-filled circles correspond to ion probe spot locations. Note that the square-shape
shading in grains 10 and 11 is due to an artefact of composing BSE images with diverse contrast.

Fig. 5: Chemical, textural and geochronological information of monazite grains from the eastern TW. On
BSE images, colour-filled circles correspond to ion probe spot locations. Note that the square-shape
shading in grains 15, 17, 18 and 20 is due to an artefact of composing BSE images with diverse contrast.

Fig. 6: Cross sections of (a) the western, (b) the central part of the western sub-dome and (c) western end of the eastern sub-dome, modified after (Schmid et al., 2013). See figure 1 for locations and legend. Sample locations are indicated by yellow stars and identified by sample numbers listed in Table 1. Monazite crystallization ages are present in the lower part of the figure and are linked to each sample by light-grey dashed lines. Weighted mean ages from this study and from Gnos et al. (2015) are presented by yellow diamonds and yellow circles, respectively, and blue bars correspond to the range of single spot dates.

Fig. 7: a) Map of the TW from figure 1 with sample locations colored as function of deformation episodes
(colored stars). See figure 1 for legend. b) DD' NE-SW cross section across the BNF, c) AA' NW-SE cross
section perpendicular to the axial plane of the western sub-dome and d) EE' longitudinal cross section
parallel to the main axial plane of the TW metamorphic dome, modified after Bertrand et al. (2017). In the

701 upper part, colored and numbered stars correspond to samples locations and are linked to corresponding 702 Th-Pb monazite ages by dashed vertical lines. Sample numbers refer to Table 1. In the lower part, 703 monazite weighted mean ages from this study and from Gnos et al. (2015) are labelled by colored diamond 704 and circles, respectively, and the range of single spot dates is depicted by blue bars. The color code used 705 for diamonds and circles follow deformation episodes explained in the discussion. Note that most error 706 bars are smaller than the size of the diamonds and circles. Zircon and apatite fission track ages are from 707 the Bertrand et al. (2017) compilation, light- and dark- grey dots with error bars, are displayed for 708 comparison. Square brackets shown to the right delimit the main periods of monazite growth discussed in 709 the text: (1) Early record of N-S shortening and associated E-W extension, (2) Contemporaneous N-S 710 shortening and strike-slip, (3) Reactivation of strike-slip to oblique-slip.

Fig. 8: Tectonic map of the Alps based on Pleuger et al. (2012) showing active Cenozoic faults at ~21 (in red), 17 (in green) and 12 Ma (in blue) respectively. Note that after 17 Ma the Giudicarie Fault (GF) becomes active and hence the Periadriatic Fault (PF) and the Mölltal Fault (MöF, dextral fault at the southeastern corner of the TW) become inactive. Sinistral strike-slip faulting starts at ~19 Ma and is affecting the western and central parts of the TW until at least 8 Ma. Future active faults are depicted in grey and inactive faults in black.

Fig. 9: Th as function of U content obtained for all the monazite grains analysed in this study. Samples indicated by an asterisk are from Gnos et al. (2015). Fissure monazite grains associated to hematite (oxidizing conditions) are labelled in red whereas grains hosted in graphite bearing rocks (reducing conditions) are labelled in blue. Samples with intermediate composition and/or for which we have no information on the presence of hematite or graphite in the fissure environment are labelled in grey.

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725 *Tables:*

Table 1: Summary of monazite samples investigated in this study and from Gnos et al. (2015). Samples

- name, number, location, host-rock lithology, metamorphic degree and fissure mineral association are
- 728 provided. Samples with approximate finding location are marked with "approx.".
- 729 *Table 2*: Summary of deformation phases in the Tauern metamorphic dome.
- 730 Table 3: Th-U-Pb analyses of monazite by ion microprobe (SwissSIMS and Nordsim). Analyses resulting
- in unreliable dates (e.g. presence of cracks, affected by Pbc causing high uncertainty) were not considered
- and are written in italic.
- 733 **Table 4**: Summary of weighted mean ages of monazite growth domains and spot age ranges of each grain
- from the TW.

Figure1.







 C_1 : Subvertical fissures Related to flat foliation (S₁) and to E-W lineation (L₁)

C₃: Subhorizontal fissures Related to subvertical foliation (S_3) and steep lineation (L_3)



Figure 3.



Figure 4.



Figure 5.





Figure 7.





Figure 9.



Table 1. Summary of monazite samples investigated in this study and by Gnos et al. (2015). Samples name, number, location, host-rock lithology, metamorphic degree and fissure mineral association are provided. Samples with approximate finding location are marked with "approx.".

Locality	Sample	N°	Latitude (°N)	Longitude (°E)	Remark	Host-rock	Host rock Alpine met.	Fissure mineral association	Reference	Ion probe
Western Tauern Window										
Innerböden, Zillertal, Tirol, Austria	INNB1	1	47°05.850'	011°47.667'	approx.	gneiss	AM	Qtz, Adl, Chl	this study	SwissSIMS
Zeischalm, Valsertal, Tirol, Austria	ZEI1	2	47°01.400'	011°35.767'	approx.	gneiss	AM	Qtz, Adl, Chl	this study	SwissSIMS
Schrammacher, Zillertal, Tirol, Italy	SCHR1	3	47°01.47'	011°38.60'	approx.	gneiss	AM	Qtz, Chl, Adl, Rt, Snt	this study	NordSim
Kluppen, Pfitschtal, Südtirol, Italy	MAYR4	4	47°00.400'	011°36.217'	approx.	gneiss	AM	Qtz, Adl, Ant, Cc, Rt, Xnt	this study	SwissSIMS
Pfitscherjoch, Tirol, Austria	PFIT1	5	46°59.65'	011°39.60'		mica schist	AM	Qtz, Hm, Adl, Trm, Rt, Brk, Ant, Syn, Asc	this study	NordSim
§ Burgumalpe, Pfitschtal, Südtirol, Italy	BURG2	6	46°55.217'	011°33.350'	approx.	serpentinite	GAT	Ilm, Rt, Cc	this study	SwissSIMS
Schwarzenbach, Ahrntal, Südtirol, Italy Central Tauern Window	PLAN1	7	46°58.641'	011°53.302'	approx.	gneiss	AM	Qtz, Adl	this study	SwissSIMS
Scheissgraben (Kotriesen), Habachtal, Salzburg, Austria	SCHEI1	8	47°14.483'	012°18.667'		mica schist	UGS	Qtz, Ab, Ant, Ank, Rt	this study	SwissSIMS
Hopffeldboden, Oberzulzbachtal, Salzburg, Austria	HOPF2	9	47°12.278'	012°14.844'		gneiss	GAT	Qtz, Ilm, Rt, Ant, Brk, Asc, Syn, Ap, Chl, Lm	this study	NordSim
Hopffeldgraben, Oberzulzbachtal, Salzburg, Austria	GART1	10	47°12.100'	012°14.167'		gneiss	GAT	Qtz, Adl, Ant, Rtl, Asc + Bt and Chl from EDS analyses	this study	SwissSIMS
Wildenkarer-Wald, Habachtal, Salzburg, Austria	NOWA3	11	47°12.633'	012°20.000'	approx.	gneiss	GAT	Qtz, Ab, Adl	this study	SwissSIMS
Beryller, Untersulzbachtal, Salzburg, Austria	GART3	12	47°11.250'	012°18.517'	approx.	gneiss	AM	Qtz, Adl	this study	SwissSIMS
Sattelkar, Obersulzbachtal, Salzburg, Austria	STEI2	13	47°09.783'	012°17.250'	approx.	gneiss	AM	Qtz, Adl, Rt, Chl	this study	SwissSIMS
Innerer Knorrkogel, Osttirol, Austria Eastern Tauern Window	KNOR1	14	47°06.117'	012°25.183'		gneiss	AM	Adl, Qtz, Chl	this study	NordSim
* Kaiserer Steinbruch, Hüttwinkeltal, Rauris, Salzburg, Austria	KAIS6	15	47°07.787'	012°58.708'		meta-arenite	GAT	Qtz, Adl, Trm, Cc, Hm, Rt, Chl	this study	NordSim
* Lohninger Quarry, Hüttwinkeltal, Rauris, Salzburg, Austria	SALZ18	16a	47°07.20'	012°59.33'		meta-arenite	GAT	Qtz, Adl, Trm, Cc, Hm, Rt, Chl	this study	NordSim
* Lohninger Quarry, Hüttwinkeltal, Rauris, Salzburg, Austria	<i>T3</i>	16b	47°07.20'	012°59.33'		meta-arenite	GAT	Alb, Qtz, Trm, Hm, Rt	Gnos et al., 2015	NordSim
* Lohninger Quarry, Hüttwinkeltal, Rauris, Salzburg, Austria	LOHN4	17	47°07.20'	012°59.33'		meta-arenite	GAT	Qtz, Adl, Trm, Cc, Hm, Rt, Chl	this study	NordSim
Ortberg bei Böckstein, Salzburg, Austria	ORT1	18	47°05.150'	013°04.217'		granitic gneiss	GAT	Qtz, Adl, Rt, Chl, Ap	this study	SwissSIMS
Euklaskluft, Griesswies, Salzburg, Austria	EUKL2	19a	47°04.683'	012°57.250'		Bt-Mu schist	GAT	Alb, Pyr, Qtz, Rt, Chl, euclase, Xnt, goethite-todorokite-nordstrandite	this study	NordSim
Euklaskluft, Griesswies, Salzburg, Austria	T2	19b	47°04.683'	012°57.250'		Bt-Mu schist	GAT	Alb, Pyr, Qtz, Rt, Chl, euclase, Xnt, goethite-todorokite-nordstrandite	Gnos et al., 2015	NordSim
Hocharn, Kärnten, Austria	HOAR1	20	47°04.500'	012°56.083'		granitic gneiss	GAT	Qtz, Ab, Rt	this study	SwissSIMS
Erfurter Steig, Rauris, Salzburg	T1	21	47°04.133'	012°57.917′		Bt-Mu schist	GAT	Qtz, Ab, Adl, phenakite, Rt, Cc	Gnos et al., 2015	NordSim
Gjaidtroghöhe, Grosses Fleisstal, Kärnten	T4	22	47°03.783'	012°54.650′		gneiss	GAT	Qtz, Ab, Ant/Rt, Chl, Cc	Gnos et al., 2015	NordSim
Mokritzen, Kleines Fleisstal, Kärnten, Austria	MOKR1	23	47°03.033'	012°53.983'		graphite bearing schist	GAT	Qtz, Sid	this study	SwissSIMS
Sandkopf, Grosses Zirknitztal, Kärnten, Austria	SAND1	24	47°01.983'	012°56.05		banded gneiss	GAT	Qtz, Adl, Chl, Sid, Ant	this study	SwissSIMS
Kleiner Reisseck, Reisseckgruppe, Kärnten, Austria	REIS1	25	46°56.950'	013°22.433'		banded gneiss	AM	Qtz, Ant, Ab, Chl	this study	SwissSIMS

Ab = albite; Adl =adularia; Ank = ankerite; Ant = anatase; Ap = fluorapatite; Asc = Aeschynite; Brk = brookite; Cc =calcite; Chl =chlorite; Clc =clinochlore; Hm = hematite; Ilm = ilmenite; Lm =limonite; Pyr = pyrite; Qtz = quartz; Rt = rutile; Sd = Siderite; Snt = senaite; Str = strontianite; Syn = synchisite; Trm = tourmaline; Xnt = xenotime; Alpine metamorphism: AM (Amphibolite facies), GAT (Greenschist-amphibolite transition), UGS (Upper greenschist facies). Bloc in glacial moraine : §. Bloc in rock slide : *.

Age [Ma]	Phase	Fault	Domain	Characteristics	Ref.	Remarks
Estimated peaks of deformation						
~ 65	D1		Penninic nappes	Accretion and subduction of Piemont- Liguria Ocean	Е	
~ 41	D2		Penninic and Subpenninic nappes	Subduction of Valais Ocean and parts of the distal European margin	Е	
~ 35	D3		Central TW	Exhumation of high-pressure units	Е	Folding of D2 thrust, decompression
~ 29	D4		Subpenninic nappes	European slab break off, Venediger Duplex formation and "Tauernkristallisation"	E	Contemporaneous intrusion of Periadriatic plutons and incipient NE-wards subduction of the Adriatic slab
~ 23 - 21			East of the Giudicarie Belt	Incipient indentation of the Southalpine Units in the Eastern Alps	D, E	
~ 17	D5		TW	Indentation, doming and lateral extrusion	Е	
Faults motion						
33 - 15		ASZ	Western TW	Sinistral ductile shear	F, G	Ductile continuation of the SEMP fault
24 - 12		TSZ	Western TW	Sinistral ductile shear	B, F	
20 - 7		GSZ	Western TW	Sinistral ductile shear	F	
21 - 10		BNF	Western TW	Normal fault	С	
22 - 13		KNF	Eastern TW	Normal fault	С	

Table 2. Summary of deformation phases in the Tauern metamorphic dome.

A: Bertrand et al., 2017, 2015; B: Blanckenburg et al., 1989; C: Favaro et al., 2017; D: Scharf et al. 2013; E: Schmid et al., 2013; F: Schneider et al., 2013; G: Rosenberg and Schneider, 2008. ASZ: Ahorn Shear Zone, BNF: Brenner Normal Fault, GSZ: Greiner Shear Zone, KNF: Katschberg Normal Fault, SEMP: Salzach-Ennstal-Mariazell-Puchberg fault, TSZ: Tuxer Shear Zones.

												204-co	rr	204-corr sp	ot ages	207-со	rr	207-corr spe	ot ages
Groups	Analysis ID	U (ppm)	Th (ppm)	Th/U	²⁰⁸ Pb/ ²⁰⁴ Pb	1σ (%)	²⁰⁷ Pb/ ²⁰⁶ Pb	1σ (%)	²⁰⁸ Pb/ ²³² Th	1σ (%)	f208 from 207 (%)	²⁰⁸ Pb/ ²³² Th	1σ (%)	²⁰⁸ Pb/ ²³² Th Age (Ma)	1σ (abs.)	²⁰⁸ Pb/ ²³² Th	1σ (%)	²⁰⁸ Pb/ ²³² Th Age (Ma)	1σ (abs.)
Western T	Cauern Window																		
	INNB1@01	258	8810	34	180	11	0.359	3.0	0.000621	1.4	13	0.000514	2.7	10.39	0.29	0.000543	1.5	10.97	0.16
	INNB1@02	397	26461	67	497	10	0.253	2.8	0.000592	1.6	4	0.000560	1.7	11.32	0.19	0.000570	1.6	11.52	0.18
	INNB1@03	341	19205	56	421	11	0.280	3.0	0.000589	1.4	5	0.000547	1.6	11.05	0.18	0.000561	1.4	11.34	0.16
	INNB1@04	1098	8717	8	202	12	0.158	2.7	0.000607	1.6	12	0.000536	2.8	10.83	0.31	0.000534	1.6	10.80	0.18
	INNB1@05	924	23297	25	421	10	0.216	2.3	0.000552	1.8	7	0.000518	1.9	10.47	0.20	0.000516	1.8	10.43	0.18
	INNB1@06	883	24902	28	364	9	0.215	2.3	0.000557	1.4	6	0.000514	1.7	10.39	0.17	0.000521	1.4	10.54	0.15
	INNB1@07	923	10635	12	200	11	0.194	2.6	0.000594	1.6	12	0.000508	2.6	10.26	0.27	0.000521	1.6	10.53	0.17
	INNB1@08	1217	15622	13	283	13	0.228	2.7	0.000466	5.1	13	0.000433	5.1	8.74	0.45	0.000406	5.1	8.21	0.42
T																			
	ZEI1@01	84	2630	31	393	21	0.202	5.2	0.000515	2.6	6	0.000465	3.1	9.39	0.29	0.000485	2.7	9.80	0.26
	ZEI1@04	75	2041	27	408	25	0.196	5.8	0.000509	3.0	6	0.000475	3.8	9.60	0.36	0.000477	3.0	9.65	0.29
	ZEI1@06	147	2086	14	251	18	0.185	4.2	0.000558	2.6	9	0.000485	3.6	9.79	0.36	0.000505	2.7	10.20	0.28
	ZEI1@07	185	2785	15	547	24	0.159	4.4	0.000524	2.6	7	0.000503	3.2	10.16	0.32	0.000487	2.7	9.84	0.26
	ZEI1@08	189	2292	12	316	21	0.185	4.2	0.000519	2.7	10	0.000456	3.5	9.21	0.32	0.000465	2.7	9.39	0.26
	ZEI1@10	198	3078	16	421	20	0.143	4.0	0.000542	2.7	7	0.000493	3.0	9.96	0.30	0.000505	2.7	10.21	0.27
	ZEI1@11	107	1820	17	298	20	0.180	4.6	0.000546	2.6	9	0.000475	3.5	9.60	0.34	0.000496	2.7	10.03	0.27
	ZEI1@13	230	5870	26	559	15	0.163	3.2	0.000558	2.6	5	0.000519	2.6	10.49	0.28	0.000532	2.6	10.75	0.28
	ZEI1@14	226	4846	21	532	18	0.153	3.8	0.000542	2.6	5	0.000509	2.8	10.29	0.29	0.000514	2.6	10.38	0.27
А	ZEI1@15	284	4694	16	412	16	0.204	3.4	0.000523	2.7	8	0.000474	2.8	9.58	0.27	0.000482	2.7	9.75	0.26
	ZEI1@16	192	3057	16	422	18	0.158	3.7	0.000553	2.6	7	0.000506	2.9	10.23	0.30	0.000513	2.7	10.37	0.28
	ZEI1@17	200	3756	19	282	14	0.234	3.1	0.000561	2.7	11	0.000484	3.0	9.79	0.30	0.000500	2.7	10.11	0.28
	ZEI1@19	325	1152	4	188	22	0.114	3.8	0.000622	3.3	18	0.000495	5.2	10.00	0.52	0.000513	3.6	10.37	0.38
	ZEI1@20	391	2715	7	485	27	0.094	4.6	0.000533	2.8	6	0.000491	3.3	9.91	0.33	0.000499	2.8	10.09	0.28

Table 3: Th-U-Pb analyses of monazite by ion microprobe (SwissSIMS and Nordsim). Analyses resulting in unreliable dates (e.g. presence of cracks, affected by Pbc causing high uncertainty) were not considered and are written in italic.

	ZEI1@21	115	7335	64	555	15	0.219	4.3	0.000509	2.6	3	0.000476	2.7	9.62	0.26	0.000492	2.6	9.95	0.26
	ZEI1@22	74	9153	124	780	15	0.281	4.0	0.000509	2.8	3	0.000484	2.7	9.78	0.27	0.000495	2.8	10.01	0.28
	ZEI1@24	58	4809	82	617	19	0.235	4.7	0.000523	2.2	3	0.000491	2.4	9.91	0.24	0.000507	2.2	10.24	0.23
	ZEI1@25	60	5152	86	670	21	0.230	4.8	0.000485	2.3	3	0.000459	2.5	9.28	0.23	0.000470	2.3	9.49	0.22
	ZEI1@26	70	8182	117	609	18	0.255	4.8	0.000499	2.3	3	0.000468	2.4	9.45	0.23	0.000486	2.3	9.81	0.22
	ZEI1@27	207	6179	30	565	21	0.109	4.4	0.000485	2.3	3	0.000455	2.6	9.19	0.24	0.000471	2.3	9.52	0.22
	ZEI1@02	99	2499	25	352	23	0.194	6.0	0.000451	2.8	6	0.000402	3.6	8.12	0.29	0.000423	2.8	8.56	0.24
	ZEI1@03	130	2246	17	663	41	0.177	7.7	0.000378	2.7	6	0.000356	3.5	7.19	0.25	0.000355	2.8	7.18	0.20
	ZEI1@05	45	2301	51	447	26	0.286	5.9	0.000468	3.1	7	0.000434	3.7	8.78	0.33	0.000436	3.2	8.82	0.28
В	ZEI1@09	325	2860	9	615	35	0.127	6.4	0.000429	2.7	6	0.000402	3.4	8.12	0.27	0.000403	2.8	8.15	0.22
	ZEI1@12	117	1943	17	312	24	0.139	5.4	0.000394	2.7	8	0.000352	3.9	7.12	0.28	0.000361	2.7	7.30	0.20
	ZEI1@18	258	3058	12	393	25	0.127	5.0	0.000398	2.6	8	0.000365	3.5	7.37	0.26	0.000365	2.7	7.38	0.20
	ZEI1@23	78	6403	82	744	20	0.307	4.7	0.000464	2.6	4	0.000440	2.7	8.89	0.24	0.000447	2.6	9.03	0.24
	,																		
	SCHR1@01	423	37708	89	1766	6	0.126	2.4	0.001025	2.19	1	0.001011	2.2	20.42	0.44	0.001016	2.2	20.53	0.45
	SCHR1@02	499	36495	73	2194	8	0.124	2.7	0.001012	2.51	1	0.001004	2.5	20.29	0.51	0.001004	2.5	20.28	0.51
А	SCHR1@03	417	45163	108	1969	5	0.132	2.2	0.001090	2.18	1	0.001079	2.2	21.80	0.47	0.001082	2.2	21.85	0.48
	SCHR1@04	438	43245	99	1960	6	0.142	2.3	0.001048	2.18	1	0.001038	2.2	20.97	0.45	0.001039	2.2	20.98	0.46
	SCHR1@05	465	37059	80	2172	7	0.126	2.5	0.001016	2.18	1	0.001006	2.2	20.32	0.44	0.001007	2.2	20.35	0.44
	SCHR1@06	443	46170	104	1859	5	0.137	2.3	0.001064	2.20	1	0.001051	2.2	21.24	0.46	0.001056	2.2	21.33	0.47
	SCHR1@07	509	24001	47	1168	6	0.160	2.0	0.001037	2.18	2	0.001009	2.1	20.38	0.43	0.001013	2.2	20.47	0.45
	SCHR1@08	482	25025	52	1167	6	0.158	2.0	0.001060	2.20	2	0.001033	2.2	20.88	0.45	0.001037	2.2	20.95	0.46
	SCHR1@09	478	26320	55	1119	6	0.167	1.9	0.001040	2.19	2	0.001012	2.1	20.44	0.44	0.001016	2.2	20.54	0.45
	SCHR1@10	510	28255	55	1211	6	0.168	2.0	0.001051	2.17	2	0.001026	2.1	20.72	0.44	0.001030	2.2	20.81	0.45
	SCHR1@11	465	26453	57	1145	6	0.169	1.8	0.001076	2.18	2	0.001053	2.1	21.28	0.46	0.001052	2.2	21.25	0.46
	SCHR1@12	331	27180	82	1099	6	0.212	2.0	0.001043	2.18	2	0.001018	2.1	20.57	0.44	0.001020	2.2	20.60	0.45
	SCHR1@13	312	28957	93	1243	6	0.233	2.0	0.001052	2.19	2	0.001028	2.1	20.76	0.44	0.001027	2.2	20.75	0.45
В	SCHR1@14	316	29632	94	1200	6	0.239	2.1	0.001031	2.22	2	0.001004	2.2	20.29	0.44	0.001008	2.2	20.37	0.45
	SCHR1@15	331	31105	94	1151	5	0.247	2.1	0.001016	2.21	2	0.000993	2.2	20.05	0.43	0.000993	2.2	20.07	0.44
	SCHR1@16	471	25641	54	1676	7	0.132	2.3	0.001020	2.19	1	0.001004	2.2	20.27	0.44	0.001005	2.2	20.31	0.44
	SCHR1@17	477	28482	60	1358	6	0.151	2.3	0.001020	2.20	2	0.001001	2.2	20.23	0.44	0.001005	2.2	20.30	0.45

| | SCHR1@18 | 480 | 18234 | 38 | 1599 | 9 | 0.119
 | 2.5 | 0.000998

 | 2.21 | 2 | 0.000976 | 2.2
 | 19.72 | 0.43 | 0.000981 | 2.2 | 19.83 | 0.44
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| | SCHR1@19 | 492 | 18252 | 37 | 1339 | 8 | 0.116
 | 2.5 | 0.001004

 | 2.21 | 2 | 0.000981 | 2.2
 | 19.81 | 0.43 | 0.000988 | 2.2 | 19.95 | 0.44
 |
| | SCHR1@20 | 506 | 18432 | 36 | 1461 | 8 | 0.117
 | 2.5 | 0.000992

 | 2.25 | 2 | 0.000973 | 2.2
 | 19.66 | 0.44 | 0.000976 | 2.3 | 19.72 | 0.44
 |
| | SCHR1@21 | 443 | 21802 | 49 | 1500 | 8 | 0.134
 | 2.4 | 0.000997

 | 2.19 | 2 | 0.000979 | 2.2
 | 19.78 | 0.43 | 0.000980 | 2.2 | 19.81 | 0.43
 |
| | SCHR1@22 | 453 | 24816 | 55 | 1475 | 7 | 0.149
 | 2.4 | 0.001007

 | 2.18 | 2 | 0.000991 | 2.2
 | 20.03 | 0.43 | 0.000991 | 2.2 | 20.01 | 0.44
 |
| | SCHR1@23 | 211 | 16187 | 77 | 921 | 7 | 0.323
 | 2.4 | 0.000994

 | 2.42 | 4 | 0.000957 | 2.3
 | 19.34 | 0.45 | 0.000954 | 2.4 | 19.27 | 0.47
 |
| | SCHR1@24 | 306 | 17861 | 58 | 513 | 5 | 0.371
 | 2.0 | 0.001025

 | 2.39 | 6 | 0.000960 | 2.3
 | 19.39 | 0.44 | 0.000963 | 2.4 | 19.45 | 0.47
 |
| C | SCHR1@25 | 363 | 17322 | 48 | 546 | 6 | 0.370
 | 2.3 | 0.001036

 | 2.65 | 6 | 0.000968 | 2.5
 | 19.55 | 0.49 | 0.000975 | 2.7 | 19.70 | 0.52
 |
| C | SCHR1@26 | 447 | 17105 | 38 | 1579 | 11 | 0.168
 | 3.8 | 0.001047

 | 3.28 | 2 | 0.001027 | 3.2
 | 20.74 | 0.67 | 0.001029 | 3.3 | 20.78 | 0.68
 |
| | SCHR1@27 | 351 | 18354 | 52 | 1635 | 10 | 0.177
 | 3.3 | 0.000973

 | 2.75 | 2 | 0.000954 | 2.7
 | 19.28 | 0.52 | 0.000955 | 2.8 | 19.30 | 0.53
 |
| | SCHR1@28 | 499 | 18145 | 36 | 1394 | 11 | 0.215
 | 3.5 | 0.001031

 | 3.21 | 3 | 0.001006 | 3.1
 | 20.33 | 0.64 | 0.001004 | 3.2 | 20.28 | 0.65
 |
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 |
| | MAYR4@01 | 259 | 5113 | 20 | 514 | 18 | 0.127
 | 3.3 | 0.000567

 | 1.3 | 4 | 0.000527 | 1.8
 | 10.65 | 0.19 | 0.000542 | 1.3 | 10.95 | 0.14
 |
| | MAYR4@02 | 340 | 3449 | 10 | 341 | 19 | 0.120
 | 3.5 | 0.000527

 | 1.5 | 6 | 0.000468 | 2.5
 | 9.45 | 0.23 | 0.000493 | 1.5 | 9.96 | 0.15
 |
| | MAYR4@03 | 336 | 3763 | 11 | 305 | 17 | 0.109
 | 3.6 | 0.000541

 | 1.5 | 5 | 0.000476 | 2.5
 | 9.62 | 0.24 | 0.000512 | 1.5 | 10.35 | 0.15
 |
| | MAYR4@04 | 368 | 3691 | 10 | 424 | 21 | 0.114
 | 3.8 | 0.000496

 | 1.6 | 6 | 0.000451 | 2.4
 | 9.12 | 0.22 | 0.000467 | 1.7 | 9.44 | 0.16
 |
| | MAYR4@05 | 311 | 2301 | 7 | 246 | 17 | 0.135
 | 3.0 | 0.000636

 | 1.9 | 11 | 0.000536 | 3.1
 | 10.84 | 0.34 | 0.000565 | 2.0 | 11.41 | 0.23
 |
| | MAYR4@06 | 385 | 1190 | 3 | 189 | 21 | 0.097
 | 3.2 | 0.000618

 | 2.3 | 15 | 0.000504 | 4.8
 | 10.19 | 0.49 | 0.000524 | 2.6 | 10.58 | 0.28
 |
| | MAYR4@07 | 136 | 6949 | 51 | 411 | 13 | 0.294
 | 2.8 | 0.000601

 | 1.2 | 7 | 0.000544 | 1.6
 | 10.99 | 0.18 | 0.000561 | 1.2 | 11.33 | 0.13
 |
| | MAYR4@08 | 192 | 5038 | 26 | 370 | 15 | 0.224
 | 2.9 | 0.000599

 | 1.2 | 8 | 0.000536 | 1.9
 | 10.84 | 0.21 | 0.000553 | 1.3 | 11.17 | 0.14
 |
| | MAYR4@09 | 201 | 4829 | 24 | 293 | 13 | 0.233
 | 2.7 | 0.000602

 | 1.4 | 9 | 0.000522 | 2.1
 | 10.55 | 0.22 | 0.000547 | 1.4 | 11.06 | 0.16
 |
| | MAYR4@10 | 251 | 4665 | 19 | 427 | 16 | 0.139
 | 3.2 | 0.000600

 | 1.2 | 5 | 0.000553 | 1.9
 | 11.17 | 0.21 | 0.000568 | 1.3 | 11.48 | 0.15
 |
| | MAYR4@11 | 334 | 1748 | 5 | 300 | 24 | 0.103
 | 3.4 | 0.000511

 | 2.2 | 14 | 0.000446 | 3.7
 | 9.00 | 0.33 | 0.000442 | 2.4 | 8.93 | 0.21
 |
| | MAYR4@12 | 295 | 2169 | 7 | 229 | 18 | 0.112
 | 3.5 | 0.000582

 | 2.0 | 9 | 0.000491 | 3.5
 | 9.92 | 0.35 | 0.000531 | 2.1 | 10.72 | 0.22
 |
| | MAYR4@13 | 81 | 5010 | 62 | 404 | 16 | 0.335
 | 3.4 | 0.000627

 | 1.3 | 7 | 0.000574 | 1.9
 | 11.60 | 0.23 | 0.000584 | 1.3 | 11.80 | 0.15
 |
| | MAYR4@14 | 103 | 5475 | 53 | 381 | 14 | 0.289
 | 3.3 | 0.000602

 | 1.2 | 6 | 0.000541 | 1.8
 | 10.92 | 0.20 | 0.000564 | 1.2 | 11.39 | 0.13
 |
| | MAYR4@15 | 94 | 6085 | 65 | 457 | 15 | 0.274
 | 3.6 | 0.000545

 | 1.4 | 5 | 0.000499 | 1.8
 | 10.09 | 0.18 | 0.000519 | 1.4 | 10.48 | 0.15
 |
| | MAYR4@16 | 122 | 6082 | 50 | 486 | 15 | 0.236
 | 3.5 | 0.000546

 | 1.0 | 4 | 0.000503 | 1.5
 | 10.16 | 0.15 | 0.000522 | 1.0 | 10.56 | 0.11
 |
| | MAYR4@17 | 134 | 5776 | 43 | 381 | 14 | 0.270
 | 3.1 | 0.000553

 | 0.9 | 6 | 0.000497 | 1.6
 | 10.04 | 0.16 | 0.000519 | 1.0 | 10.50 | 0.10
 |
| | MAYR4@18 | 180 | 4227 | 23 | 351 | 14 | 0.200
 | 3.0 | 0.000603

 | 1.1 | 7 | 0.000543 | 1.9
 | 10.96 | 0.21 | 0.000561 | 1.1 | 11.34 | 0.12
 |
| | С | SCHR1@18 SCHR1@19 SCHR1@20 SCHR1@21 SCHR1@22 SCHR1@23 SCHR1@24 SCHR1@25 SCHR1@26 SCHR1@27 SCHR1@28 MAYR4@01 MAYR4@03 MAYR4@04 MAYR4@05 MAYR4@06 MAYR4@07 MAYR4@08 MAYR4@09 MAYR4@01 MAYR4@10 MAYR4@11 MAYR4@12 MAYR4@13 MAYR4@14 MAYR4@15 MAYR4@15 MAYR4@16 MAYR4@17 MAYR4@17 MAYR4@17 MAYR4@17 MAYR4@17 | SCHR1@18480SCHR1@19492SCHR1@20506SCHR1@21443SCHR1@21443SCHR1@22453SCHR1@23211SCHR1@24306SCHR1@25363SCHR1@26447SCHR1@27351SCHR1@28499VSCHR1@28MAYR4@01259MAYR4@03336MAYR4@04368MAYR4@05311MAYR4@06385MAYR4@07136MAYR4@08192MAYR4@09201MAYR4@10251MAYR4@11334MAYR4@1381MAYR4@1381MAYR4@1381MAYR4@14103MAYR4@1594MAYR4@16122MAYR4@17134MAYR4@17134MAYR4@17134MAYR4@17134 | SCHR1@1848018234SCHR1@1949218252SCHR1@2050618432SCHR1@2144321802SCHR1@2245324816SCHR1@2321116187SCHR1@2430617861SCHR1@2536317322SCHR1@2644717105SCHR1@2735118354SCHR1@2849918145MAYR4@012595113MAYR4@033363763MAYR4@043683691MAYR4@053112301MAYR4@063851190MAYR4@071366949MAYR4@081925038MAYR4@092014829MAYR4@102514665MAYR4@113341748MAYR4@13815010MAYR4@141035475MAYR4@15946085MAYR4@161226082MAYR4@171345776MAYR4@181804227 | SCHR1@184801823438SCHR1@194921825237SCHR1@205061843236SCHR1@214432180249SCHR1@224532481655SCHR1@232111618777SCHR1@243061786158SCHR1@253631732248SCHR1@264471710538SCHR1@273511835452SCHR1@284991814536SCHR1@284991814536MAYR4@01259511320MAYR4@03336376311MAYR4@04368369110MAYR4@0531123017MAYR4@0638511903MAYR4@07136694951MAYR4@08192503826MAYR4@09201482924MAYR4@10251466519MAYR4@1133417485MAYR4@1381501062MAYR4@1381501062MAYR4@14103547553MAYR4@1594608565MAYR4@16122608250MAYR4@16122608250MAYR4@16122608250MAYR4@16124577643MAYR4@18180422723 | SCHR1@18 480 18234 38 1599 SCHR1@19 492 18252 37 1339 SCHR1@20 506 18432 36 1461 SCHR1@21 443 21802 49 1500 SCHR1@21 443 21802 49 1500 SCHR1@23 211 16187 77 921 SCHR1@24 306 17861 58 513 SCHR1@25 363 17322 48 546 SCHR1@26 447 17105 38 1579 SCHR1@27 351 18354 52 1635 SCHR1@28 499 18145 36 1394 MAYR4@01 259 5113 20 514 MAYR4@03 336 3763 11 305 MAYR4@04 368 3691 10 424 MAYR4@05 311 2301 7 246 MAYR4@06 385 1190 3 | SCHR1@18 480 18234 38 1599 9 SCHR1@19 492 18252 37 1339 8 SCHR1@20 506 18432 36 1461 8 SCHR1@21 443 21802 49 1500 8 SCHR1@22 453 24816 55 1475 7 SCHR1@23 211 16187 77 921 7 SCHR1@25 363 17322 48 546 6 SCHR1@25 363 17322 48 546 6 SCHR1@25 363 17322 48 546 6 SCHR1@26 447 17105 38 1579 11 SCHR1@27 351 18354 52 1635 10 SCHR1@28 499 18145 36 1394 11 MAYR4@01 259 5113 20 514 18 MAYR4@02 340 3469 10 <th>SCHR1@18 480 18234 38 1599 9 0.119 SCHR1@19 492 18252 37 1339 8 0.116 SCHR1@20 506 18432 36 1461 8 0.117 SCHR1@21 443 21802 49 1500 8 0.134 SCHR1@22 453 24816 55 1475 7 0.149 SCHR1@23 211 16187 77 921 7 0.323 SCHR1@24 306 17861 58 513 5 0.371 SCHR1@25 363 17322 48 546 6 0.370 SCHR1@27 351 18354 52 1635 10 0.177 SCHR1@28 499 18145 36 1394 11 0.212 MAYR4@01 259 5113 20 514 18 0.127 MAYR4@03 336 3763 11 305 17</th> <th>SCHRI@184801823438159990.1192.5SCHRI@194921825237133980.1162.5SCHRI@205061843236146180.1172.5SCHRI@214432180249150080.1342.4SCHRI@224532481655147570.1492.4SCHRI@23211161877792170.3232.4SCHRI@24306178615851350.3712.0SCHRI@2644717105381579110.1683.8SCHRI@2644717105381579110.1683.8SCHRI@2735118354521635100.1773.3SCHRI@2849918145361394110.2153.5MAYR4@01259511320514180.1273.3MAYR4@0234034910341190.1203.5MAYR4@0336376311305170.1093.6MAYR4@04368369110424210.1143.8MAYR4@0531123017246170.1353.0MAYR4@0638511903189210.0973.2MAYR4@07136694951411130.2332.7MAYR4@08192<th>SCHR1@18 480 18234 38 1599 9 0.119 2.5 0.000998 SCHR1@19 492 18252 37 1339 8 0.116 2.5 0.001004 SCHR1@20 506 18432 36 1461 8 0.117 2.5 0.000992 SCHR1@21 443 21802 49 1500 8 0.134 2.4 0.001071 SCHR1@22 453 24816 55 1475 7 0.323 2.4 0.001025 SCHR1@23 211 16187 77 921 7 0.323 2.4 0.001025 SCHR1@24 306 17861 58 513 5 0.371 2.0 0.001025 SCHR1@25 363 17322 48 546 6 0.370 2.3 0.00073 SCHR1@27 351 18354 52 1635 10 0.177 3.3 0.00057 MAYR4@01 259</th><th>SCHR1@18 480 18234 38 1599 9 0.119 2.5 0.000998 2.21 SCHR1@19 492 18252 37 1339 8 0.116 2.5 0.000992 2.21 SCHR1@20 506 18432 36 1461 8 0.117 2.5 0.000997 2.19 SCHR1@21 443 21802 49 1500 8 0.134 2.4 0.00097 2.19 SCHR1@22 453 24816 55 1475 7 0.149 2.4 0.00107 2.18 SCHR1@24 306 17861 58 513 5 0.371 2.0 0.001025 2.39 SCHR1@25 363 17322 48 546 6 0.370 2.3 0.00103 2.21 SCHR1@25 351 18354 52 1635 10 0.177 3.3 0.00057 1.3 SCHR1@25 351 18354 52 163</th><th>SCHR1@18 480 18234 38 1599 9 0.119 2.5 0.00098 2.21 2 SCHR1@19 492 18252 37 1339 8 0.116 2.5 0.000992 2.25 2 SCHR1@21 443 21802 49 1500 8 0.134 2.4 0.00097 2.19 2 SCHR1@22 453 24816 55 1475 7 0.149 2.4 0.00007 2.18 2 SCHR1@23 211 16187 77 921 7 0.323 2.4 0.00094 2.42 4 SCHR1@24 306 17861 58 513 5 0.371 2.0 0.01017 3.8 0.00107 3.8 2.55 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 2.5 0.000992 2.2 19.6 0.44 0.000981 2.3 SCHRI@20 505 18432 36 1461 8 0.117 2.5 0.000991 2.2 19.6 0.44 0.000991 2.2 SCHRI@21 43 2480 49 0.00097 1.8 2 0.000970 2.3 1.9.3 0.44 0.000991 2.2 SCHRI@23 211 16187 77 9.21 7 0.323 2.4 0.000961 2.3 1.9.3 0.44 0.000975 2.4 SCHRI@23 301 1732 48 513 5 0.37 2.3 0.0106 3.1 2.3 0.0106 3.1 2.3 0.000975<th>SCHRI@18 480 1824 38 1599 9 0.119 2.5 0.00098 2.21 2 0.00076 2.2 19.72 0.43 0.00081 2.2 19.83 SCHRI@19 402 18352 37 1339 8 0.116 2.5 0.00097 2.2 19.81 0.43 0.00088 2.2 19.81 SCHRI@20 506 18432 36 1461 8 0.117 2.5 0.00097 2.2 19.66 0.44 0.00086 2.2 19.83 0.43 0.00091 2.2 19.63 0.43 0.00091 2.2 10.83 0.00091 2.4 10.900957 2.3 19.34 0.43 0.00095 2.4 19.35 SCHRI@23 31 16187 77 9.11 0.370 2.3 0.001037 2.3 0.001037 2.3 0.001037 2.3 0.001037 2.3 0.01027 3.3 0.001037 2.3 0.017 3.3 0.001047</th></th> | SCHRI@18 480 18234 38 1599 9 0.119 2.5 0.000998 2.21 2 0.000976 2.21 SCHRI@19 492 18252 37 1339 8 0.116 2.5 0.00094 2.21 2 0.000971 2.21 SCHRI@20 506 18432 36 1461 8 0.117 2.5 0.000972 2.25 2 0.000971 2.23 SCHRI@21 443 21802 49 1500 8 0.134 2.44 0.001007 2.18 2 0.000971 2.3 SCHRI@23 211 16187 77 921 7 0.323 2.4 0.001007 2.48 0.000971 2.3 SCHRI@23 361 17322 48 546 6 0.370 2.3 0.001037 2.8 2 0.001027 1.3 SCHRI@24 361 1710 38 1579 11 0.168 38 0.001047 | SCHRI@IS 480 18234 38 1599 9 0.119 2.5 0.00998 2.21 2 0.00076 2.2 19.72 SCHRI@19 492 18252 37 1339 8 0.116 2.5 0.000992 2.21 2 0.00077 2.2 19.81 SCHRI@20 506 18432 36 1461 8 0.117 2.5 0.000997 2.18 2 0.00097 2.2 19.06 SCHRI@21 443 2180 493 1510 7 0.149 2.4 0.00097 2.18 2 0.00097 2.3 19.34 SCHRI@22 363 17861 58 513 5 0.371 2.0 0.00105 2.38 2 0.00096 2.3 19.39 SCHRI@24 306 17861 58 513 5 0.371 2.0 0.001073 2.38 2 0.00097 2.1 19.35 SCHRI@25 313 2 | SCHR1@18 480 18234 38 1599 9 0.119 2.5 0.000998 2.21 2 0.00076 2.2 19.72 0.43 SCHR1@19 492 18252 37 1339 8 0.116 2.5 0.001004 2.21 2 0.000971 2.2 19.76 0.143 SCHR1@21 443 21802 49 1500 8 0.117 2.5 0.000977 2.19 2 0.000979 2.2 19.78 0.43 SCHR1@22 443 2480 65 1475 7 0.132 2.4 0.000107 2.18 0.000979 2.3 19.44 0.45 SCHR1@24 306 1781 58 513 5 0.371 2.0 0.00105 2.39 6 0.000969 2.3 19.39 0.44 SCHR1@24 306 1786 51 51 53 0.371 2.0 0.00173 3.2 0.000100 3.1 0.33 | SCHR1@18 480 1824 38 1599 9 0.119 2.5 0.00998 2.21 2 0.00976 2.2 19.72 0.43 0.00988 SCHR1@19 492 18322 37 1339 8 0.116 2.5 0.00104 2.11 2 0.000971 2.2 19.81 0.43 0.000988 SCHR1@21 443 21802 49 1500 8 0.114 2.4 0.00097 2.19 2 0.000991 2.2 19.78 0.43 0.000991 SCHR1@23 211 16187 77 921 7 0.323 2.4 0.000912 2.18 2 0.00097 2.3 19.34 0.44 0.00097 SCHR1@24 436 1735 8 5157 11 0.168 3.8 0.00107 3.2 2 0.00107 3.2 2 0.00107 3.2 2.0 0.00107 3.2 2 0.00107 3.2 3 0.00107 | SCITRI@18 480 1824 38 1599 9 0.119 2.5 0.000998 2.21 2 0.00076 2.2 19.72 0.43 0.000981 2.2 SCHRI@10 9.05 18432 36 1461 8 0.117 2.5 0.000992 2.2 19.6 0.44 0.000981 2.3 SCHRI@20 505 18432 36 1461 8 0.117 2.5 0.000991 2.2 19.6 0.44 0.000991 2.2 SCHRI@21 43 2480 49 0.00097 1.8 2 0.000970 2.3 1.9.3 0.44 0.000991 2.2 SCHRI@23 211 16187 77 9.21 7 0.323 2.4 0.000961 2.3 1.9.3 0.44 0.000975 2.4 SCHRI@23 301 1732 48 513 5 0.37 2.3 0.0106 3.1 2.3 0.0106 3.1 2.3 0.000975 <th>SCHRI@18 480 1824 38 1599 9 0.119 2.5 0.00098 2.21 2 0.00076 2.2 19.72 0.43 0.00081 2.2 19.83 SCHRI@19 402 18352 37 1339 8 0.116 2.5 0.00097 2.2 19.81 0.43 0.00088 2.2 19.81 SCHRI@20 506 18432 36 1461 8 0.117 2.5 0.00097 2.2 19.66 0.44 0.00086 2.2 19.83 0.43 0.00091 2.2 19.63 0.43 0.00091 2.2 10.83 0.00091 2.4 10.900957 2.3 19.34 0.43 0.00095 2.4 19.35 SCHRI@23 31 16187 77 9.11 0.370 2.3 0.001037 2.3 0.001037 2.3 0.001037 2.3 0.001037 2.3 0.01027 3.3 0.001037 2.3 0.017 3.3 0.001047</th> | SCHRI@18 480 1824 38 1599 9 0.119 2.5 0.00098 2.21 2 0.00076 2.2 19.72 0.43 0.00081 2.2 19.83 SCHRI@19 402 18352 37 1339 8 0.116 2.5 0.00097 2.2 19.81 0.43 0.00088 2.2 19.81 SCHRI@20 506 18432 36 1461 8 0.117 2.5 0.00097 2.2 19.66 0.44 0.00086 2.2 19.83 0.43 0.00091 2.2 19.63 0.43 0.00091 2.2 10.83 0.00091 2.4 10.900957 2.3 19.34 0.43 0.00095 2.4 19.35 SCHRI@23 31 16187 77 9.11 0.370 2.3
0.001037 2.3 0.001037 2.3 0.001037 2.3 0.001037 2.3 0.01027 3.3 0.001037 2.3 0.017 3.3 0.001047 |

	PFIT1@12	103	11683	114	554	6	0.387	2.6	0.000852	2.19	5	0.000809	2.1	16.34	0.35	0.000813	2.2	16.42	0.36
	PFIT1@13	112	18466	165	580	5	0.450	2.4	0.000891	2.29	4	0.000845	2.2	17.06	0.38	0.000852	2.3	17.21	0.39
	PFIT1@14	117	13986	120	569	5	0.413	2.4	0.000918	2.31	5	0.000868	2.2	17.54	0.39	0.000874	2.3	17.66	0.41
	PFIT1@15	104	13449	130	473	5	0.430	2.3	0.000895	2.41	5	0.000835	2.3	16.87	0.39	0.000849	2.4	17.15	0.41
А	PFIT1@16	65	15956	244	629	5	0.497	2.8	0.000913	2.26	4	0.000877	2.2	17.72	0.39	0.000881	2.3	17.80	0.40
	PFIT1@17	78	13368	171	586	7	0.506	3.3	0.000877	2.25	4	0.000833	2.2	16.82	0.37	0.000843	2.3	17.03	0.38
	PFIT1@18	79	12054	153	662	7	0.365	3.6	0.000892	2.40	3	0.000859	2.4	17.35	0.41	0.000866	2.4	17.49	0.42
	PFIT1@19	121	9937	82	697	10	0.328	4.6	0.000896	2.19	3	0.000856	2.2	17.29	0.38	0.000869	2.2	17.57	0.39
	PFIT1@20	119	8358	70	871	11	0.287	4.9	0.000885	2.19	3	0.000853	2.2	17.23	0.37	0.000862	2.2	17.42	0.38
	PFIT1@01	30	5962	199	808	12	0.360	5.4	0.000658	2.29	3	0.000631	2.3	12.74	0.29	0.000640	2.3	12.94	0.30
	PFIT1@02	32	6627	209	723	10	0.350	5.0	0.000754	2.25	2	0.000721	2.2	14.57	0.32	0.000736	2.3	14.86	0.34
	PFIT1@03	13	5940	466	1033	11	0.414	6.9	0.000824	2.24	1	0.000808	2.2	16.33	0.37	0.000814	2.2	16.45	0.37
	PFIT1@04	36	6027	166	859	13	0.317	5.7	0.000705	2.28	3	0.000681	2.3	13.77	0.31	0.000687	2.3	13.88	0.32
	PFIT1@05	84	8610	102	1011	19	0.389	7.1	0.000710	3.39	4	0.000690	3.4	13.94	0.47	0.000685	3.4	13.84	0.47
	PFIT1@11	110	13146	119	548	6	0.428	2.7	0.000800	2.18	4	0.000756	2.1	15.28	0.32	0.000764	2.2	15.43	0.34
	PFIT1@06	245	5464	22	525	10	0.155	3.0	0.000697	2.20	6	0.000664	2.2	13.42	0.30	0.000658	2.2	13.30	0.29
	PFIT1@07	336	4523	13	381	11	0.161	3.6	0.000706	2.33	6	0.000642	2.4	12.98	0.31	0.000661	2.3	13.35	0.31
В	PFIT1@08	347	3300	10	314	12	0.201	3.5	0.000728	2.21	11	0.000647	2.4	13.07	0.32	0.000648	2.3	13.09	0.30
	PFIT1@09	383	3220	8	343	13	0.170	3.9	0.000704	2.21	9	0.000636	2.5	12.86	0.32	0.000638	2.3	12.89	0.29
	PFIT1@10	388	2889	7	238	11	0.190	3.7	0.000740	2.33	12	0.000641	2.8	12.95	0.36	0.000650	2.4	13.13	0.32
	BURG2@07	30	769	26	193	20	0.165	4.7	0.000732	2.3	10	0.000585	4.4	11.83	0.53	0.000659	2.4	13.32	0.31
	BURG2@08	18	1014	57	219	16	0.306	3.6	0.000959	2.2	12	0.000790	3.4	15.97	0.54	0.000844	2.3	17.06	0.39
	BURG2@09	53	626	12	275	24	0.087	5.1	0.000797	2.3	6	0.000685	3.9	13.85	0.54	0.000751	2.4	15.17	0.36
	BURG2@10	30	1067	36	324	19	0.179	4.1	0.000878	2.3	7	0.000774	3.0	15.63	0.47	0.000818	2.3	16.53	0.38
	BURG2@13	164	529	3	403	55	0.112	7.5	0.000683	2.3	12	0.000660	6.5	13.35	0.86	0.000600	2.8	12.12	0.33
	BURG2@12	52	2273	44	69	18	0.415	3.7	0.001048	8.6	46	0.000462	10.7	9.34	1.00	0.000571	9.5	11.53	1.10
	r																		
	PLAN1@01	190	1647	9	56	9	0.577	2.2	0.001582	3.1	63	0.000706	6.9	14.27	0.98	0.000580	5.1	11.73	0.60
	PLAN1@02	177	12498	71	284	11	0.361	2.9	0.000643	1.4	9	0.000585	2.1	11.81	0.25	0.000587	1.5	11.86	0.17
	PLAN1@03	209	2322	11	56	8	0.620	1.9	0.001634	3.3	63	0.000578	5.5	11.67	0.64	0.000605	4.7	12.23	0.57

	PLAN1@04	410	3160	8	101	12	0.269	2.8	0.000788	2.2	28	0.000583	5.4	11.78	0.63	0.000565	2.6	11.41	0.29
	PLAN1@05	438	1542	4	59	11	0.261	2.7	0.001043	3.3	45	0.000489	7.9	9.88	0.78	0.000574	4.5	11.61	0.52
	PLAN1@06	458	1687	4	58	10	0.377	2.4	0.001231	6.5	55	0.000575	8.0	11.62	0.93	0.000550	7.5	11.11	0.84
	PLAN1@07	462	2662	6	90	12	0.284	2.5	0.000864	4.0	40	0.000635	6.3	12.83	0.81	0.000520	4.5	10.50	0.47
	PLAN1@08	509	3332	7	104	14	0.242	3.3	0.000751	2.3	24	0.000607	6.0	12.26	0.74	0.000569	2.7	11.50	0.31
	PLAN1@09	594	4167	7	101	12	0.238	2.9	0.000690	2.4	24	0.000501	5.1	10.12	0.51	0.000522	2.6	10.55	0.28
	PLAN1@10	774	5878	8	148	12	0.190	2.8	0.000661	2.1	17	0.000557	3.9	11.26	0.44	0.000550	2.2	11.11	0.25
	PLAN1@13	1215	1759	1	68	12	0.136	2.5	0.000967	5.4	41	0.000576	8.2	11.65	0.96	0.000567	6.6	11.45	0.75
	PLAN1@14	589	4750	8	176	14	0.167	3.2	0.000680	1.5	15	0.000581	3.7	11.73	0.43	0.000579	1.6	11.71	0.19
	PLAN1@15	424	3653	9	98	11	0.233	2.9	0.000783	1.8	22	0.000624	5.1	12.61	0.65	0.000610	2.0	12.32	0.25
	PLAN1@16	448	3567	8	86	10	0.288	2.4	0.000869	2.9	30	0.000596	5.2	12.04	0.63	0.000611	3.2	12.35	0.39
	PLAN1@17	454	3815	8	108	11	0.198	3.0	0.000744	1.9	18	0.000566	4.7	11.44	0.54	0.000608	2.1	12.28	0.26
	PLAN1@18	443	4422	10	161	13	0.250	2.7	0.000763	3.9	21	0.000670	4.9	13.53	0.67	0.000600	4.0	12.13	0.48
	PLAN1@19	365	10351	28	214	10	0.305	2.7	0.000685	1.8	11	0.000596	2.5	12.04	0.31	0.000609	1.8	12.30	0.22
	PLAN1@20	467	8041	17	153	9	0.359	2.1	0.000751	1.5	22	0.000606	2.8	12.25	0.34	0.000588	1.6	11.88	0.20
А	PLAN1@21	627	6050	10	103	9	0.322	2.0	0.000836	2.0	28	0.000577	3.7	11.66	0.43	0.000600	2.2	12.12	0.27
	PLAN1@23	373	4646	12	715	17	0.102	2.9	0.000645	2.6	4	0.000611	2.7	12.34	0.33	0.000617	2.7	12.46	0.33
	PLAN1@24	390	4664	12	677	18	0.090	3.5	0.000610	2.6	4	0.000576	2.7	11.63	0.31	0.000588	2.7	11.89	0.32
	PLAN1@25	359	5180	14	519	17	0.121	3.0	0.000639	2.7	6	0.000591	2.8	11.94	0.33	0.000598	2.7	12.09	0.32
	PLAN1@26	365	4817	13	401	15	0.116	3.0	0.000627	2.6	6	0.000570	2.8	11.52	0.32	0.000588	2.7	11.88	0.32
	PLAN1@27	476	3538	7	541	19	0.101	2.9	0.000650	2.7	8	0.000603	2.8	12.19	0.35	0.000601	2.7	12.14	0.33
	PLAN1@28	564	8192	15	460	11	0.125	2.3	0.000660	2.6	6	0.000604	2.6	12.21	0.32	0.000622	2.6	12.56	0.33
	PLAN1@29	620	14199	23	619	10	0.130	2.1	0.000637	2.6	4	0.000598	2.6	12.09	0.31	0.000609	2.6	12.32	0.33
	PLAN1@30	528	8241	16	420	13	0.127	2.7	0.000632	2.7	6	0.000574	2.7	11.60	0.31	0.000595	2.7	12.02	0.32
	PLAN1@31	1028	1527	1	124	12	0.090	2.0	0.000802	3.1	26	0.000552	4.4	11.16	0.49	0.000595	3.8	12.02	0.45
	PLAN1@32	1152	1721	1	227	19	0.066	2.7	0.000661	2.7	12	0.000548	4.0	11.08	0.44	0.000579	3.1	11.70	0.36
	PLAN1@33	926	4303	5	361	14	0.085	2.2	0.000642	2.7	8	0.000573	2.8	11.57	0.33	0.000588	2.8	11.87	0.33
	PLAN1@34	623	7966	13	483	12	0.125	2.3	0.000669	2.6	7	0.000615	2.6	12.43	0.32	0.000624	2.6	12.61	0.33
	PLAN1@35	408	6529	16	185	8	0.307	1.7	0.000746	3.1	19	0.000592	3.0	11.97	0.36	0.000605	3.2	12.22	0.39
	PLAN1@36	304	7521	25	427	13	0.182	2.7	0.000646	2.6	7	0.000587	2.7	11.87	0.31	0.000603	2.6	12.19	0.32
	PLAN1@38	580	9607	17	525	14	0.112	2.4	0.000626	2.2	5	0.000580	2.3	11.73	0.27	0.000596	2.2	12.05	0.27

	PLAN1@39	331	10707	32	497	13	0.164	2.7	0.000628	2.2	4	0.000581	2.3	11.74	0.27	0.000600	2.2	12.12	0.27
	PLAN1@40	344	2342	7	311	21	0.143	2.9	0.000698	2.3	15	0.000612	3.3	12.36	0.41	0.000593	2.5	11.98	0.30
	PLAN1@41	487	10698	22	360	11	0.172	2.1	0.000654	2.2	7	0.000584	2.3	11.80	0.27	0.000608	2.3	12.28	0.28
	PLAN1@11	1410	6659	5	175	20	0.204	4.3	0.000568	2.5	18	0.000578	6.4	11.69	0.74	0.000464	2.8	9.38	0.26
В	PLAN1@12	1310	7371	6	160	23	0.206	5.3	0.000467	2.1	18	0.000509	7.9	10.28	0.81	0.000384	2.5	7.75	0.19
	PLAN1@37	619	3146	5	312	20	0.085	2.7	0.000555	2.6	11	0.000493	3.5	9.96	0.34	0.000492	2.7	9.94	0.27
	PLAN1@22	733	1514	2	52	9	0.291	2.1	0.001227	7.7	60	0.000544	8.3	10.99	0.92	0.000491	9.1	9.91	0.90
Central To	auern Window																		
	SCHEI1@16	408	58860	144	1205	6	0.181	1.8	0.000876	2.6	1	0.000849	2.6	17.14	0.44	0.000864	2.6	17.46	0.46
Δ	SCHEI1@17	304	61361	202	1483	7	0.210	1.9	0.000939	2.6	1	0.000915	2.6	18.49	0.48	0.000928	2.6	18.75	0.50
Л	SCHEI1@18	265	60179	227	1432	6	0.235	1.9	0.000949	2.6	1	0.000924	2.6	18.66	0.48	0.000937	2.6	18.93	0.50
	SCHEI1@20	311	62554	201	1416	7	0.222	2.0	0.000906	2.7	1	0.000881	2.6	17.81	0.46	0.000893	2.7	18.05	0.48
	SCHEI1@11	394	53473	136	780	7	0.309	2.0	0.000868	1.4	3	0.000829	1.4	16.75	0.23	0.000842	1.4	17.02	0.23
	SCHEI1@12	434	47204	109	857	9	0.268	2.2	0.000886	1.4	3	0.000855	1.4	17.28	0.24	0.000862	1.4	17.41	0.24
В	SCHEI1@13	360	50556	140	639	8	0.349	2.1	0.000907	1.4	3	0.000861	1.4	17.39	0.24	0.000876	1.4	17.71	0.24
	SCHEI1@14	321	53530	167	655	7	0.402	1.9	0.000911	1.4	4	0.000863	1.4	17.45	0.24	0.000876	1.4	17.69	0.25
	SCHEI1@32	291	55126	189	1026	6	0.303	1.5	0.000868	2.8	2	0.000836	2.7	16.88	0.46	0.000848	2.8	17.14	0.48
	SCHEI1@01	776	17285	22	303	8	0.196	2.1	0.000888	1.4	7	0.000802	1.7	16.20	0.27	0.000825	1.4	16.67	0.23
	SCHEI1@02	485	32602	67	655	11	0.283	2.6	0.000843	1.4	4	0.000808	1.5	16.33	0.25	0.000808	1.4	16.33	0.24
	SCHEI1@03	496	23525	47	411	9	0.285	2.2	0.000899	1.4	6	0.000826	1.6	16.70	0.26	0.000844	1.4	17.05	0.25
	SCHEI1@04	619	20187	33	312	10	0.254	2.5	0.000862	1.5	7	0.000797	1.9	16.10	0.31	0.000802	1.5	16.21	0.25
	SCHEI1@05	702	14215	20	252	9	0.255	2.1	0.000929	1.5	11	0.000806	1.9	16.29	0.32	0.000825	1.5	16.66	0.25
	SCHEI1@06	831	11524	14	190	8	0.274	1.7	0.000974	1.8	18	0.000810	2.3	16.36	0.37	0.000800	1.8	16.16	0.30
	SCHEI1@07	545	19842	36	279	8	0.383	1.9	0.000949	1.6	12	0.000839	1.8	16.95	0.31	0.000840	1.6	16.97	0.27
	SCHEI1@08	902	10829	12	216	9	0.220	2.0	0.000979	1.4	14	0.000843	2.1	17.04	0.36	0.000843	1.5	17.03	0.25
	SCHEI1@09	888	10863	12	239	11	0.212	2.3	0.000942	1.8	13	0.000809	2.4	16.35	0.39	0.000819	1.8	16.55	0.31
	SCHEI1@10	1103	20671	19	314	11	0.206	2.6	0.000864	1.5	7	0.000791	2.0	15.98	0.31	0.000801	1.5	16.18	0.24
	SCHEI1@15	427	31409	74	280	6	0.426	1.7	0.000933	1.6	9	0.000818	1.7	16.53	0.28	0.000851	1.6	17.19	0.28
С	SCHEI1@19	650	22198	34	1132	11	0.093	2.6	0.000890	2.6	1	0.000860	2.6	17.37	0.45	0.000878	2.6	17.73	0.47

		SCHEI1@21	704	20090	29	1036	10	0.086	2.2	0.000849	2.6	2	0.000818	2.6	16.52	0.42	0.000836	2.6	16.89	0.44
		SCHEI1@22	815	10348	13	1078	15	0.078	2.3	0.000846	2.6	3	0.000818	2.6	16.52	0.43	0.000825	2.6	16.66	0.44
		SCHEI1@23	417	36731	88	1703	12	0.133	2.8	0.000865	2.6	1	0.000847	2.6	17.11	0.44	0.000855	2.6	17.28	0.45
		SCHEI1@24	656	16727	25	1183	11	0.083	2.3	0.000848	2.6	2	0.000821	2.6	16.59	0.43	0.000834	2.6	16.86	0.44
		SCHEI1@27	720	19708	27	976	10	0.108	2.0	0.000831	2.6	3	0.000798	2.6	16.13	0.41	0.000809	2.6	16.35	0.43
		SCHEI1@28	420	36082	86	1062	9	0.169	2.4	0.000860	2.6	2	0.000829	2.6	16.76	0.43	0.000846	2.6	17.08	0.45
		SCHEI1@29	513	37241	73	665	9	0.231	2.2	0.000854	2.6	4	0.000804	2.5	16.25	0.41	0.000823	2.6	16.64	0.44
		SCHEI1@30	588	23098	39	738	10	0.122	2.3	0.000808	2.7	3	0.000765	2.6	15.46	0.40	0.000787	2.7	15.89	0.43
		SCHEI1@31	435	37275	86	945	8	0.176	2.0	0.000817	2.6	2	0.000784	2.5	15.84	0.40	0.000800	2.6	16.16	0.43
		SCHEI1@33	678	12021	18	1406	18	0.060	2.6	0.000800	2.2	1	0.000778	2.2	15.73	0.35	0.000792	2.2	16.00	0.36
		SCHEI1@34	996	8782	9	2159	31	0.056	3.1	0.000807	2.3	1	0.000793	2.3	16.02	0.37	0.000796	2.3	16.08	0.37
r		,																		
		HOPF2@15	82	61530	749	720	4	0.611	2.2	0.000560	2.37	2	0.000542	2.3	10.94	0.25	0.000546	2.4	11.03	0.26
		HOPF2@16	69	33784	490	619	4	0.641	2.6	0.000647	2.36	3	0.000620	2.3	12.54	0.29	0.000625	2.4	12.63	0.30
		HOPF2@17	97	33439	343	972	7	0.571	3.6	0.000663	2.91	2	0.000643	2.8	13.00	0.37	0.000647	2.9	13.08	0.38
	А	HOPF2@18	77	40713	530	274	3	0.761	1.5	0.000762	2.67	11	0.000667	2.4	13.48	0.32	0.000677	2.7	13.67	0.37
		HOPF2@19	120	62586	520	840	5	0.572	2.8	0.000623	3.49	2	0.000605	3.4	12.23	0.42	0.000609	3.5	12.30	0.43
		HOPF2@20	120	49522	413	853	7	0.590	3.7	0.000594	2.39	3	0.000571	2.3	11.54	0.27	0.000577	2.4	11.67	0.28
		HOPF2@21	173	37157	215	1309	13	0.585	6.1	0.000683	2.78	2	0.000667	2.7	13.47	0.37	0.000667	2.8	13.47	0.38
		HOPF2@07	49	28763	591	480	5	0.735	2.5	0.000600	2.26	6	0.000559	2.1	11.29	0.24	0.000561	2.3	11.35	0.26
		HOPF2@08	46	28779	627	495	5	0.740	2.3	0.000630	2.20	6	0.000593	2.1	11.98	0.25	0.000592	2.2	11.97	0.26
		HOPF2@09	55	32338	593	429	4	0.721	1.9	0.000649	2.17	7	0.000603	2.1	12.18	0.25	0.000604	2.2	12.20	0.27
	В	HOPF2@10	76	22645	296	595	9	0.714	4.1	0.000637	3.67	6	0.000597	3.5	12.06	0.42	0.000596	3.7	12.05	0.44
		HOPF2@11	40	28273	701	140	3	0.810	1.2	0.000782	3.59	24	0.000580	2.8	11.72	0.32	0.000597	3.6	12.07	0.43
		HOPF2@12	38	26357	689	346	4	0.780	2.1	0.000694	2.20	9	0.000628	2.1	12.68	0.26	0.000628	2.2	12.69	0.28
		HOPF2@13	52	40578	775	305	3	0.777	1.7	0.000688	2.54	10	0.000615	2.3	12.43	0.29	0.000616	2.5	12.45	0.32
		HOPF2@14	55	27790	505	261	3	0.773	1.6	0.000708	2.22	12	0.000614	2.0	12.41	0.25	0.000626	2.2	12.65	0.28
		HOPF2@01	40	23096	582	683	6	0.646	3.0	0.000591	2.20	4	0.000565	2.1	11.43	0.24	0.000567	2.2	11.45	0.25
		HOPF2@02	42	25870	612	584	6	0.682	3.3	0.000619	2.23	4	0.000590	2.2	11.92	0.26	0.000594	2.2	11.99	0.27
	С	HOPF2@03	45	29023	642	538	5	0.659	2.6	0.000647	2.27	4	0.000617	2.2	12.46	0.27	0.000619	2.3	12.50	0.28
		HOPF2@04	50	30246	610	510	4	0.677	2.3	0.000656	2.35	5	0.000621	2.2	12.54	0.28	0.000622	2.3	12.58	0.30

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		HOPF2@05	57	32908	577	451	4	0.690	2.1	0.000670	2.48	6	0.000627	2.4	12.67	0.30	0.000629	2.5	12.70	0.32
		HOPF2@06	58	28865	500	481	4	0.680	2.1	0.000642	2.18	6	0.000602	2.1	12.16	0.25	0.000602	2.2	12.17	0.27
r		T																		
		GART1@07	232	13668	59	1022	10	0.175	2.0	0.000830	2.3	2	0.000799	2.3	16.14	0.36	0.000811	2.3	16.38	0.38
		GART1@08	302	9312	31	523	8	0.208	1.6	0.000831	2.3	6	0.000769	2.3	15.54	0.35	0.000785	2.3	15.85	0.37
		GART1@09	206	14195	69	1054	9	0.173	2.0	0.000815	2.0	2	0.000785	2.0	15.86	0.31	0.000799	2.0	16.14	0.32
		GART1@10	199	17962	90	716	7	0.192	2.1	0.000838	2.1	2	0.000793	2.1	16.01	0.33	0.000823	2.1	16.63	0.36
	А	GART1@11	221	9789	44	881	12	0.162	2.5	0.000813	2.3	3	0.000778	2.3	15.71	0.36	0.000792	2.3	16.00	0.38
		GART1@22	86	8047	93	412	8	0.321	1.8	0.000889	2.0	6	0.000806	2.0	16.29	0.32	0.000835	2.0	16.86	0.34
		GART1@23	142	9137	65	454	8	0.317	1.8	0.000858	1.9	6	0.000786	1.9	15.88	0.29	0.000810	1.9	16.36	0.31
		GART1@24	133	7292	55	371	8	0.322	1.8	0.000864	2.3	7	0.000774	2.2	15.64	0.35	0.000808	2.3	16.32	0.38
		GART1@25	132	8048	61	435	9	0.318	2.0	0.000855	2.4	6	0.000779	2.3	15.74	0.37	0.000804	2.5	16.24	0.40
		GART1@26	139	9550	69	512	8	0.328	1.8	0.000866	2.1	6	0.000800	2.1	16.17	0.33	0.000816	2.1	16.49	0.35
		GART1@01	14	7467	551	446	9	0.626	2.3	0.000807	2.3	6	0.000737	2.3	14.89	0.34	0.000758	2.4	15.32	0.37
		GART1@02	16	11180	718	285	14	0.707	3.8	0.000774	2.3	7	0.000669	2.7	13.51	0.37	0.000716	2.4	14.47	0.35
		GART1@04	28	11198	401	967	11	0.299	3.0	0.000783	2.2	1	0.000752	2.2	15.19	0.33	0.000771	2.2	15.59	0.35
		GART1@05	31	13066	424	1149	11	0.232	3.4	0.000731	3.0	1	0.000707	2.9	14.28	0.42	0.000724	3.0	14.64	0.44
	В	GART1@17	86	22525	263	679	7	0.397	1.5	0.000854	1.8	4	0.000806	1.8	16.28	0.29	0.000820	1.8	16.56	0.30
		GART1@18	110	23948	218	894	7	0.307	1.7	0.000820	1.8	2	0.000784	1.8	15.84	0.28	0.000799	1.8	16.15	0.30
		GART1@19	14	7182	501	832	14	0.437	3.9	0.000778	2.2	2	0.000742	2.2	14.98	0.32	0.000763	2.2	15.42	0.34
		GART1@20	108	19460	180	740	7	0.321	1.8	0.000828	2.0	3	0.000785	2.0	15.86	0.31	0.000805	2.0	16.26	0.33
ļ		GART1@21	106	23334	220	775	7	0.330	1.6	0.000839	2.0	3	0.000797	2.0	16.10	0.32	0.000816	2.0	16.48	0.34
		GART1@03	16	15175	927	53	3	0.802	0.8	0.001916	11.9	62	0.000516	4.1	10.43	0.43	0.000729	17.7	14.72	2.61
		GART1@04	19	13099	696	69	4	0.810	1.0	0.001303	7.8	48	0.000571	4.2	11.53	0.48	0.000679	12.9	13.72	1.76
		GART1@06	93	12315	133	2322	26	0.182	6.4	0.000453	4.0	1	0.000446	3.9	9.01	0.35	0.000450	4.0	9.09	0.36
ſ		T																		
		NOWA3@01	99	7183	73	397	10	0.433	2.1	0.000894	4.3	9	0.000807	4.0	16.31	0.65	0.000809	4.3	16.35	0.71
		NOWA3@02	111	7973	72	205	7	0.569	1.8	0.000864	3.8	15	0.000704	3.4	14.23	0.48	0.000733	3.8	14.80	0.57
		NOWA3@03	95	10612	112	506	9	0.474	2.1	0.000852	3.8	7	0.000787	3.6	15.90	0.57	0.000793	3.8	16.03	0.61
		NOWA3@04	93	10175	109	103	5	0.724	1.2	0.001132	5.8	37	0.000707	4.1	14.29	0.58	0.000713	5.9	14.40	0.84
		NOWA3@05	107	6658	62	94	5	0.695	1.4	0.001145	5.8	38	0.000674	4.1	13.62	0.56	0.000711	5.9	14.37	0.84

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		NOWA3@06	146	7715	53	176	9	0.606	2.0	0.000875	5.6	22	0.000683	4.8	13.80	0.66	0.000681	5.6	13.75	0.77
	٨	NOWA3@07	162	4216	26	137	7	0.461	1.6	0.001023	4.8	27	0.000734	4.0	14.84	0.59	0.000743	4.8	15.01	0.72
	л	NOWA3@09	187	2571	14	81	7	0.445	1.7	0.001077	5.9	36	0.000565	4.4	11.42	0.50	0.000686	5.9	13.86	0.82
		NOWA3@10	178	3925	22	124	7	0.478	1.5	0.001053	6.0	30	0.000726	4.6	14.68	0.68	0.000738	6.0	14.91	0.89
		NOWA3@11	106	5924	56	188	7	0.477	1.8	0.000922	4.7	17	0.000732	4.0	14.80	0.59	0.000761	4.7	15.38	0.72
		NOWA3@22	106	6470	61	1230	19	0.133	3.9	0.000837	1.2	2	0.000811	1.3	16.38	0.22	0.000824	1.2	16.65	0.20
		NOWA3@23	94	9038	96	1036	14	0.300	2.7	0.000864	0.9	4	0.000832	1.0	16.81	0.18	0.000834	0.9	16.85	0.16
		NOWA3@24	100	9053	90	896	14	0.265	3.1	0.000786	1.0	3	0.000752	1.2	15.19	0.18	0.000765	1.1	15.45	0.16
		NOWA3@25	91	7689	84	1010	15	0.176	3.6	0.000857	0.9	2	0.000824	1.0	16.65	0.17	0.000842	0.9	17.01	0.15
		NOWA3@17	192	9482	50	555	10	0.290	1.7	0.000859	3.7	7	0.000799	3.5	16.15	0.57	0.000799	3.7	16.15	0.61
		NOWA3@18	193	8656	45	388	8	0.288	1.7	0.000838	3.8	8	0.000755	3.5	15.24	0.53	0.000774	3.8	15.64	0.59
	В	NOWA3@19	179	11023	62	531	9	0.286	1.7	0.000832	3.9	6	0.000771	3.7	15.58	0.57	0.000786	3.9	15.87	0.62
		NOWA3@20	189	10600	56	451	8	0.278	1.7	0.000836	3.9	6	0.000765	3.6	15.45	0.56	0.000786	3.9	15.87	0.62
		NOWA3@21	212	10750	51	225	13	0.368	2.5	0.000907	4.0	17	0.000752	4.0	15.18	0.60	0.000757	4.0	15.30	0.61
		NOWA3@12	50	12537	253	347	7	0.547	1.8	0.000868	3.9	8	0.000771	3.6	15.58	0.56	0.000796	3.9	16.08	0.63
		NOWA3@13	34	9676	287	371	8	0.556	1.9	0.000839	3.8	8	0.000751	3.5	15.18	0.54	0.000773	3.8	15.62	0.60
	С	NOWA3@14	39	10246	260	323	8	0.534	2.0	0.000783	3.9	8	0.000689	3.6	13.93	0.50	0.000723	3.9	14.61	0.58
		NOWA3@15	48	11123	231	498	10	0.504	2.1	0.000777	3.8	7	0.000717	3.6	14.48	0.52	0.000726	3.8	14.66	0.56
ļ		NOWA3@16	48	10718	225	349	9	0.590	2.0	0.000745	4.4	9	0.000663	4.0	13.39	0.53	0.000677	4.4	13.68	0.60
		NOWA3@08	212	3097	15	123	8	0.375	1.7	0.001111	6.8	29	0.000763	5.3	15.41	0.81	0.000788	6.9	15.93	1.09
r		·																		
		GART3@13	85	8547	101	226	9	0.537	2.1	0.000901	2.6	14	0.000747	2.7	15.09	0.41	0.000775	2.6	15.65	0.41
		GART3@14	112	9936	89	207	10	0.541	2.4	0.000879	2.8	14	0.000715	3.0	14.46	0.43	0.000760	2.9	15.36	0.44
	А	GART3@15	95	9197	97	184	10	0.595	2.1	0.000969	3.9	19	0.000769	3.7	15.54	0.58	0.000781	3.9	15.78	0.62
		GART3@16	94	9295	99	183	9	0.585	1.9	0.000917	3.2	20	0.000723	3.2	14.61	0.47	0.000733	3.3	14.82	0.48
		GART3@17	159	9327	59	179	13	0.621	2.6	0.000881	2.9	25	0.000691	3.7	13.95	0.51	0.000662	3.0	13.38	0.40
		GART3@18	161	8380	52	128	11	0.623	2.6	0.000904	2.9	25	0.000638	4.0	12.90	0.51	0.000676	3.0	13.65	0.41
		GART3@07	251	11739	47	318	10	0.312	2.1	0.000865	2.8	8	0.000760	2.7	15.36	0.41	0.000794	2.8	16.04	0.44
		GART3@08	318	9593	30	219	11	0.374	2.3	0.000836	2.7	15	0.000689	3.0	13.92	0.41	0.000711	2.7	14.37	0.39
		GART3@09	335	8995	27	220	11	0.379	2.2	0.000858	2.7	17	0.000711	3.0	14.37	0.44	0.000714	2.8	14.43	0.40
		GART3@10	318	9819	31	221	11	0.377	2.2	0.000875	2.8	15	0.000722	3.0	14.58	0.44	0.000745	2.9	15.05	0.43

	GART3@11	387	10683	28	244	13	0.326	2.8	0.000829	2.7	11	0.000703	3.1	14.20	0.44	0.000738	2.7	14.92	0.41
В	GART3@12	484	11366	24	210	13	0.388	3.1	0.000864	2.6	12	0.000712	3.3	14.38	0.47	0.000760	2.6	15.35	0.40
	GART3@19	129	5307	41	100	7	0.543	1.7	0.001103	4.2	31	0.000681	3.9	13.75	0.53	0.000756	4.3	15.27	0.65
	GART3@20	251	4358	17	122	10	0.408	2.1	0.000990	3.6	29	0.000676	4.1	13.65	0.56	0.000707	3.7	14.29	0.53
	GART3@21	247	13787	56	218	8	0.411	1.9	0.000901	2.7	12	0.000742	2.7	14.99	0.40	0.000797	2.7	16.09	0.44
	GART3@22	431	10631	25	215	13	0.466	2.5	0.000880	2.6	19	0.000734	3.3	14.83	0.49	0.000712	2.7	14.38	0.39
	GART3@23	240	12846	54	247	10	0.414	2.2	0.000879	2.9	12	0.000745	2.9	15.05	0.44	0.000773	2.9	15.61	0.45
	GART3@01	114	7936	69	285	12	0.352	2.7	0.000762	2.6	10	0.000659	2.8	13.31	0.37	0.000689	2.6	13.92	0.36
	GART3@03	183	3983	22	100	13	0.392	3.3	0.000778	2.9	23	0.000477	5.4	9.65	0.52	0.000602	3.1	12.17	0.37
С	GART3@04	176	3297	19	138	17	0.392	3.3	0.000802	2.9	26	0.000578	5.1	11.67	0.60	0.000595	3.1	12.02	0.37
	GART3@05	123	4784	39	191	14	0.393	2.9	0.000770	2.8	17	0.000614	3.6	12.41	0.44	0.000639	2.8	12.92	0.36
	GART3@06	166	4521	27	197	17	0.374	3.5	0.000763	2.6	17	0.000623	4.0	12.58	0.51	0.000630	2.7	12.72	0.34
	GART3@02	161	3479	22	109	12	0.449	2.6	0.000824	8.0	32	0.000531	6.8	10.73	0.73	0.000558	8.1	11.28	0.91
	STEI2@01	395	15567	39	1346	11	0.106	2.0	0.000873	2.12	2	0.000848	2.1	17.14	0.36	0.000859	2.1	17.36	0.37
	STEI2@02	403	16229	40	1096	10	0.113	2.0	0.000862	2.11	2	0.000833	2.1	16.82	0.35	0.000847	2.1	17.11	0.36
	STEI2@03	417	16643	40	1022	9	0.115	1.9	0.000869	2.04	2	0.000836	2.0	16.89	0.34	0.000854	2.0	17.25	0.35
	STEI2@04	376	17989	48	1436	11	0.097	2.2	0.000854	2.15	1	0.000831	2.1	16.79	0.35	0.000844	2.1	17.05	0.37
	STEI2@05	348	7706	22	844	13	0.101	2.2	0.000860	2.50	3	0.000820	2.5	16.57	0.41	0.000837	2.5	16.92	0.42
	STEI2@06	288	6287	22	700	13	0.125	2.3	0.000892	1.90	4	0.000843	1.9	17.02	0.33	0.000857	1.9	17.32	0.33
	STEI2@07	257	5814	23	556	12	0.176	2.0	0.000915	2.06	6	0.000851	2.1	17.20	0.36	0.000858	2.1	17.34	0.36
	STEI2@08	387	5851	15	730	13	0.090	2.3	0.000874	2.49	3	0.000830	2.5	16.76	0.41	0.000848	2.5	17.13	0.43
	STEI2@09	443	5143	12	649	14	0.080	2.3	0.000859	2.51	3	0.000810	2.5	16.37	0.41	0.000832	2.5	16.82	0.43
	STEI2@10	295	6041	20	689	14	0.118	2.4	0.000875	2.18	3	0.000828	2.2	16.73	0.37	0.000844	2.2	17.06	0.37
	STEI2@11	370	7478	20	1151	15	0.088	2.4	0.000858	2.11	2	0.000829	2.1	16.76	0.35	0.000841	2.1	16.99	0.36
	STEI2@12	548	11690	21	755	10	0.103	1.8	0.000884	1.96	3	0.000838	1.9	16.94	0.33	0.000859	2.0	17.36	0.34
	STEI2@13	579	10095	17	798	11	0.101	1.8	0.000871	2.26	3	0.000829	2.2	16.75	0.37	0.000844	2.3	17.06	0.39
	STEI2@14	601	10283	17	745	10	0.099	1.8	0.000869	2.15	3	0.000824	2.1	16.65	0.35	0.000843	2.2	17.03	0.37
	STEI2@15	352	19439	55	962	9	0.138	2.0	0.000864	1.83	2	0.000829	1.8	16.75	0.30	0.000848	1.8	17.14	0.31
	STEI2@16	455	10595	23	676	10	0.127	1.8	0.000891	2.06	3	0.000840	2.0	16.96	0.34	0.000861	2.1	17.39	0.36
	STEI2@17	387	8068	21	902	13	0.091	2.2	0.000864	2.03	2	0.000827	2.0	16.71	0.34	0.000846	2.0	17.10	0.35

	STEI2@18	348	11391	33	1180	13	0.101	2.5	0.000846	2.09	1	0.000819	2.1	16.55	0.34	0.000835	2.1	16.87	0.35
	STEI2@19	339	12077	36	1048	11	0.095	2.3	0.000876	2.20	1	0.000844	2.2	17.05	0.37	0.000864	2.2	17.45	0.39
	STEI2@20	323	7488	23	943	13	0.084	2.6	0.000871	2.04	1	0.000835	2.0	16.87	0.34	0.000858	2.0	17.33	0.35
	·																		
	KNOR1@19	149	12269	82	466	7	0.392	3.5	0.000558	2.34	4	0.000527	2.3	10.64	0.24	0.000535	2.3	10.81	0.25
	KNOR1@20	181	9307	52	285	7	0.488	3.2	0.000587	3.28	11	0.000515	3.1	10.41	0.32	0.000522	3.3	10.55	0.35
А	KNOR1@21	239	9337	39	642	13	0.400	5.1	0.000604	3.67	5	0.000574	3.6	11.60	0.42	0.000572	3.7	11.56	0.42
	KNOR1@22	172	8289	48	512	9	0.321	4.1	0.000570	2.76	4	0.000537	2.7	10.86	0.29	0.000545	2.8	11.01	0.30
	KNOR1@24	194	7199	37	605	13	0.268	5.3	0.000549	3.18	4	0.000517	3.1	10.44	0.32	0.000529	3.2	10.68	0.34
	KNOR1@01	32	7767	246	189	5	0.737	2.5	0.000615	2.18	18	0.000498	2.1	10.06	0.21	0.000505	2.2	10.21	0.23
	KNOR1@02	35	6107	175	197	6	0.731	2.9	0.000637	2.60	18	0.000521	2.5	10.53	0.26	0.000524	2.6	10.59	0.28
	KNOR1@03	36	9885	273	115	4	0.784	1.8	0.000767	2.66	32	0.000518	2.3	10.48	0.24	0.000518	2.7	10.47	0.29
В	KNOR1@05	27	9535	356	102	3	0.786	1.4	0.000869	2.35	36	0.000560	1.9	11.32	0.22	0.000558	2.4	11.28	0.27
	KNOR1@06	33	9203	277	167	4	0.734	2.1	0.000661	2.18	19	0.000522	2.0	10.54	0.21	0.000533	2.2	10.77	0.24
	KNOR1@07	33	4983	152	112	5	0.726	2.1	0.000768	2.20	31	0.000522	2.2	10.56	0.23	0.000527	2.3	10.64	0.25
	KNOR1@08	36	3783	105	136	6	0.652	2.8	0.000701	2.17	24	0.000516	2.4	10.42	0.25	0.000533	2.3	10.76	0.24
	KNOR1@09	39	5846	149	281	7	0.573	3.4	0.000577	2.30	11	0.000513	2.3	10.37	0.24	0.000514	2.3	10.38	0.24
	KNOR1@04	30	6902	234	95	3	0.759	1.6	0.000920	2.21	37	0.000555	1.9	11.21	0.22	0.000576	2.3	11.63	0.27
	KNOR1@10	48	5633	118	428	11	0.495	5.2	0.000542	2.37	6	0.000499	2.4	10.07	0.24	0.000508	2.4	10.27	0.24
	KNOR1@11	48	4611	96	444	12	0.478	5.6	0.000560	2.48	6	0.000525	2.6	10.61	0.27	0.000528	2.5	10.67	0.27
	KNOR1@12	57	4583	81	399	11	0.355	5.3	0.000540	2.18	5	0.000498	2.3	10.06	0.23	0.000513	2.2	10.36	0.23
С	KNOR1@13	54	4104	77	445	11	0.331	5.0	0.000541	2.29	5	0.000500	2.4	10.10	0.24	0.000513	2.3	10.37	0.24
-	KNOR1@14	56	6093	108	729	13	0.285	5.6	0.000516	2.19	3	0.000495	2.2	10.00	0.22	0.000501	2.2	10.12	0.22
	KNOR1@15	76	6847	91	639	11	0.237	5.4	0.000529	2.19	2	0.000508	2.2	10.27	0.23	0.000515	2.2	10.41	0.23
	KNOR1@16	65	5872	91	524	11	0.224	5.8	0.000529	2.17	2	0.000503	2.2	10.17	0.23	0.000517	2.2	10.45	0.23
	KNOR1@18	77	8867	114	628	10	0.141	5.7	0.000559	2.52	1	0.000544	2.6	11.00	0.28	0.000552	2.5	11.15	0.28
	KNOR1@17	73	6281	86	585	10	0.191	5.4	0.000590	2.24	2	0.000564	2.3	11.41	0.26	0.000578	2.2	11.68	0.26

Eastern Tauern Window

	KAIS6@29	12	32285	2726	324	2	0.816	1.1	0.001135	2.68	11	0.001014	2.4	20.48	0.49	0.001015	2.7	20.51	0.55
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	KAIS6@37	10	35152	3587	322	2	0.817	1.1	0.001192	2.71	10	0.001065	2.4	21.51	0.52	0.001072	2.7	21.66	0.59
Δ	KAIS6@38	10	35481	3480	428	3	0.797	1.4	0.001137	2.74	8	0.001046	2.5	21.13	0.54	0.001045	2.8	21.12	0.58
Λ	KAIS6@39	10	31600	3326	316	3	0.820	1.3	0.001154	2.73	11	0.001022	2.4	20.65	0.50	0.001030	2.7	20.81	0.57
	KAIS6@41	8	32642	4280	351	2	0.824	1.2	0.001173	2.74	9	0.001057	2.5	21.36	0.53	0.001063	2.8	21.48	0.59
	KAIS6@42	6	29873	4677	292	2	0.836	1.2	0.001200	2.69	11	0.001054	2.4	21.28	0.51	0.001066	2.7	21.54	0.58
	KAIS6@15	5	21644	4568	142	2	0.833	0.9	0.001399	2.69	25	0.001031	2.0	20.83	0.43	0.001045	2.8	21.12	0.59
	KAIS6@16	5	22052	4771	161	2	0.831	0.9	0.001329	2.69	23	0.001020	2.1	20.61	0.44	0.001022	2.7	20.65	0.57
	KAIS6@17	5	25100	4752	189	2	0.825	1.0	0.001299	2.73	19	0.001046	2.2	21.12	0.47	0.001049	2.8	21.20	0.59
	KAIS6@18	5	25260	4905	148	2	0.827	0.9	0.001392	2.81	26	0.001040	2.2	21.01	0.45	0.001025	2.9	20.71	0.61
	KAIS6@19	5	23495	5173	148	2	0.825	0.9	0.001390	2.75	24	0.001038	2.1	20.96	0.44	0.001053	2.8	21.28	0.60
	KAIS6@20	5	24260	5377	157	2	0.829	0.9	0.001351	2.83	24	0.001032	2.2	20.85	0.46	0.001033	2.9	20.86	0.61
	KAIS6@21	5	25950	5040	155	2	0.837	0.9	0.001320	2.73	24	0.001003	2.1	20.27	0.43	0.001007	2.8	20.35	0.57
	KAIS6@22	4	20175	4625	134	2	0.813	0.9	0.001424	2.76	27	0.001034	2.1	20.88	0.43	0.001043	2.8	21.07	0.60
	KAIS6@23	3	18427	5349	153	2	0.828	1.0	0.001353	2.82	24	0.001028	2.2	20.76	0.46	0.001027	2.9	20.74	0.60
	KAIS6@24	4	17328	4822	178	2	0.830	1.1	0.001313	2.69	21	0.001045	2.2	21.11	0.46	0.001041	2.7	21.02	0.58
	KAIS6@25	5	17901	3588	154	2	0.833	0.9	0.001366	2.77	24	0.001042	2.2	21.05	0.46	0.001039	2.8	20.98	0.59
В	KAIS6@26	4	19477	5281	167	2	0.820	1.0	0.001304	2.75	22	0.001020	2.2	20.60	0.46	0.001017	2.8	20.56	0.58
	KAIS6@27	4	19595	5290	165	2	0.821	1.1	0.001325	2.72	22	0.001030	2.2	20.80	0.45	0.001036	2.8	20.93	0.58
	KAIS6@28	3	17683	5368	162	2	0.817	1.0	0.001354	2.76	23	0.001043	2.2	21.06	0.46	0.001041	2.8	21.02	0.59
	KAIS6@31	3	19464	6314	207	2	0.826	1.2	0.001275	2.67	17	0.001049	2.2	21.19	0.48	0.001059	2.7	21.39	0.58
	KAIS6@32	3	17623	5729	145	2	0.823	1.0	0.001352	2.75	26	0.001007	2.1	20.35	0.43	0.001003	2.8	20.26	0.57
	KAIS6@33	4	23433	5395	191	2	0.819	1.0	0.001257	2.79	18	0.001018	2.3	20.56	0.47	0.001026	2.8	20.73	0.59
	KAIS6@34	3	22517	6923	175	2	0.836	0.9	0.001289	2.73	21	0.001016	2.2	20.52	0.45	0.001015	2.8	20.51	0.57
	KAIS6@35	4	23426	6129	175	2	0.827	0.9	0.001299	2.72	21	0.001025	2.2	20.70	0.45	0.001031	2.8	20.82	0.58
	KAIS6@36	4	24762	6924	169	2	0.821	0.9	0.001316	2.76	21	0.001031	2.2	20.83	0.46	0.001034	2.8	20.89	0.59
	KAIS6@43	4	19511	4948	229	2	0.828	1.2	0.001210	2.76	15	0.001024	2.4	20.68	0.49	0.001023	2.8	20.66	0.58
	KAIS6@44	5	20543	3995	252	3	0.828	1.5	0.001177	2.72	14	0.001007	2.4	20.35	0.48	0.001009	2.8	20.39	0.56
	KAIS6@45	4	17366	4418	225	3	0.834	1.4	0.001269	2.67	15	0.001067	2.3	21.55	0.49	0.001076	2.7	21.73	0.59
	KAIS6@46	4	14595	3614	231	3	0.813	1.5	0.001284	2.70	15	0.001083	2.3	21.88	0.51	0.001094	2.7	22.11	0.61
	KAIS6@01	2	13078	6002	83	2	0.844	0.8	0.001865	2.70	46	0.001011	1.7	20.43	0.34	0.001001	3.1	20.21	0.63
	KAIS6@02	3	14140	4835	97	2	0.823	0.9	0.001682	2.76	40	0.001031	1.9	20.83	0.39	0.001012	3.0	20.44	0.62

| | KAIS6@05 | 3 | 10157 | 2957
 | 96 | 2
 | 0.837
 | 1.0
 | 0.001672 | 2.69 | 38
 | 0.001010 | 1.9 | 20.41
 | 0.38 | 0.001035 | 3.0 | 20.91 | 0.63 |
|---|-----------|--|--
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---|--|---|---|---|---
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С	KAIS6@06	4
 | 104 | 2
 | 0.828
 | 1.0
 | 0.001564 | 2.84 | 36
 | 0.000995 | 2.0 | 20.11
 | 0.40 | 0.000994 | 3.1 | 20.09 | 0.63 |
| | KAIS6@09 | 3 | 10348 | 3946
 | 74 | 1
 | 0.828
 | 0.7
 | 0.002146 | 2.71 | 52
 | 0.001030 | 1.5 | 20.81
 | 0.32 | 0.001037 | 3.7 | 20.94 | 0.77 |
| | KAIS6@10 | 3 | 12624 | 4224
 | 90 | 2
 | 0.828
 | 0.9
 | 0.001795 | 2.74 | 42
 | 0.001037 | 1.8 | 20.96
 | 0.37 | 0.001033 | 3.1 | 20.87 | 0.64 |
| | KAIS6@12 | 3 | 10457 | 3171
 | 91 | 2
 | 0.822
 | 1.0
 | 0.001752 | 2.68 | 41
 | 0.001020 | 1.8 | 20.61
 | 0.37 | 0.001039 | 3.0 | 20.98 | 0.63 |
| | KAIS6@03 | 4 | 15947 | 3922
 | 100 | 2
 | 0.844
 | 1.0
 | 0.001524 | 2.91 | 39
 | 0.000944 | 2.0 | 19.07
 | 0.38 | 0.000924 | 3.2 | 18.67 | 0.59 |
| | KAIS6@04 | 4 | 16156 | 3905
 | 91 | 2
 | 0.829
 | 1.0
 | 0.001531 | 3.25 | 40
 | 0.000890 | 2.1 | 17.98
 | 0.38 | 0.000923 | 3.5 | 18.65 | 0.66 |
| | KAIS6@07 | 6 | 11981 | 2002
 | 89 | 4
 | 0.843
 | 1.6
 | 0.001562 | 2.89 | 44
 | 0.000887 | 2.3 | 17.93
 | 0.40 | 0.000877 | 3.7 | 17.71 | 0.65 |
| | KAIS6@08 | 3 | 10466 | 3145
 | 87 | 2
 | 0.824
 | 0.8
 | 0.001711 | 2.68 | 44
 | 0.000959 | 1.7 | 19.37
 | 0.33 | 0.000956 | 3.1 | 19.31 | 0.59 |
| ת | KAIS6@11 | 4 | 13094 | 3210
 | 89 | 2
 | 0.830
 | 1.1
 | 0.001493 | 2.92 | 42
 | 0.000846 | 2.0 | 17.09
 | 0.33 | 0.000870 | 3.3 | 17.58 | 0.58 |
| D | KAIS6@13 | 4 | 13271 | 3273
 | 88 | 2
 | 0.842
 | 1.0
 | 0.001621 | 2.84 | 41
 | 0.000917 | 1.9 | 18.52
 | 0.35 | 0.000950 | 3.3 | 19.19 | 0.63 |
| | KAIS6@14 | 9 | 13459 | 1568
 | 105 | 4
 | 0.827
 | 1.7
 | 0.001323 | 3.57 | 33
 | 0.000836 | 2.6 | 16.89
 | 0.44 | 0.000881 | 3.8 | 17.79 | 0.68 |
| | KAIS6@30 | 14 | 25376 | 1840
 | 225 | 2
 | 0.837
 | 1.1
 | 0.001130 | 2.68 | 16
 | 0.000950 | 2.3 | 19.20
 | 0.44 | 0.000951 | 2.7 | 19.22 | 0.52 |
| | KAIS6@40 | 10 | 32326 | 3141
 | 301 | 3
 | 0.800
 | 1.4
 | 0.001094 | 2.93 | 12
 | 0.000962 | 2.6 | 19.44
 | 0.51 | 0.000967 | 3.0 | 19.53 | 0.58 |
| | KAIS6@47 | 9 | 31411 | 3692
 | 311 | 3
 | 0.818
 | 1.3
 | 0.001069 | 2.68 | 11
 | 0.000949 | 2.4 | 19.16
 | 0.46 | 0.000955 | 2.7 | 19.28 | 0.52 |
| | KAIS6@48 | 13 | 18728 | 1403
 | 217 | 3
 | 0.836
 | 1.5
 | 0.001218 | 2.67 | 17
 | 0.001014 | 2.3 | 20.49
 | 0.47 | 0.001014 | 2.7 | 20.48 | 0.56 |
| | KAIS6@49 | 13 | 18241 | 1449
 | 248 | 3
 | 0.813
 | 1.3
 | 0.001252 | 2.69 | 14
 | 0.001072 | 2.3 | 21.66
 | 0.51 | 0.001083 | 2.7 | 21.87 | 0.59 |
| | | | |
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 | | | | | |
| | SALZ18@01 | 11 | 443 | 40
 | 428 | 6
 | 0.642
 | 2.9
 | 0.001001 | 2.30 | 8
 | 0.000928 | 2.2 | 18.75
 | 0.41 | 0.000921 | 2.31 | 18.61 | 0.43 |
| | SALZ18@02 | 19 | 11907 | 639
 | 515 | 6
 | 0.546
 | 3.0
 | 0.000970 | 2.16 | 4
 | 0.000914 | 2.1 | 18.46
 | 0.39 | 0.000928 | 2.17 | 18.75 | 0.41 |
| | SALZ18@03 | 23 | 12452 | 552
 | 1291 | 11
 | 0.191
 | 7.3
 | 0.000859 | 2.25 | 1
 | 0.000853 | 2.3 | 17.23
 | 0.39 | 0.000854 | 2.25 | 17.25 | 0.39 |
| | SALZ18@04 | 20 | 8334 | 407
 | 800 | 10
 | 0.246
 | 6.5
 | 0.000943 | 2.52 | 1
 | 0.000909 | 2.5 | 18.36
 | 0.46 | 0.000933 | 2.52 | 18.84 | 0.47 |
| | SALZ18@05 | 28 | 6912 | 245
 | 1239 | 12
 | 0.235
 | 6.6
 | 0.000911 | 2.20 | 1
 | 0.000903 | 2.2 | 18.24
 | 0.41 | 0.000902 | 2.20 | 18.22 | 0.40 |
| | SALZ18@06 | 11 | 2256 | 200
 | 1200 | 13
 | 0.314
 | 7.5
 | 0.000947 | 2.26 | 1
 | 0.000941 | 2.3 | 19.00
 | 0.44 | 0.000935 | 2.26 | 18.90 | 0.43 |
| | SALZ18@07 | 23 | 9797 | 429
 | 1862 | 19
 | 0.208
 | 9.6
 | 0.000863 | 2.34 | 1
 | 0.000858 | 2.4 | 17.33
 | 0.41 | 0.000857 | 2.34 | 17.31 | 0.40 |
| | SALZ18@08 | 20 | 4607 | 232
 | 980 | 14
 | 0.186
 | 10.0
 | 0.000880 | 2.39 | 1
 | 0.000856 | 2.4 | 17.29
 | 0.42 | 0.000874 | 2.39 | 17.66 | 0.42 |
| | SALZ18@09 | 18 | 3952 | 224
 | 1353 | 18
 | 0.180
 | 9.3
 | 0.000942 | 2.42 | 1
 | 0.000934 | 2.5 | 18.87
 | 0.47 | 0.000934 | 2.42 | 18.88 | 0.46 |
| | SALZ18@10 | 19 | 3681 | 189
 | 894 | 18
 | 0.178
 | 10.2
 | 0.000917 | 2.57 | 1
 | 0.000889 | 2.6 | 17.96
 | 0.47 | 0.000907 | 2.57 | 18.33 | 0.47 |
| | SALZ18@11 | 13 | 1751 | 134
 | 1123 | 15
 | 0.312
 | 7.3
 | 0.000979 | 2.38 | 2
 | 0.000962 | 2.4 | 19.44
 | 0.47 | 0.000963 | 2.38 | 19.46 | 0.46 |
| | SALZ18@12 | 17 | 4555 | 267
 | 731 | 19
 | 0.169
 | 10.8
 | 0.000922 | 2.74 | 1
 | 0.000881 | 2.8 | 17.80
 | 0.50 | 0.000910 | 2.74 | 18.39 | 0.50 |
| | SALZ18@13 | 17 | 1752 | 106
 | 617 | 27
 | 0.207
 | 11.1
 | 0.000887 | 3.43 | 3
 | 0.000850 | 3.8 | 17.18
 | 0.65 | 0.000860 | 3.43 | 17.37 | 0.60 |
| | C | KAIS6@05 KAIS6@06 KAIS6@09 KAIS6@10 KAIS6@10 KAIS6@10 KAIS6@10 KAIS6@11 KAIS6@03 KAIS6@04 KAIS6@01 KAIS6@03 KAIS6@04 KAIS6@03 KAIS6@04 KAIS6@03 KAIS6@04 KAIS6@11 KAIS6@13 KAIS6@14 KAIS6@13 KAIS6@14 KAIS6@14 KAIS6@13 KAIS6@14 SALZ18@01 SALZ18@03 SALZ18@04 SALZ18@05 SALZ18@07 SALZ18@11 SALZ18@12 SALZ18@12 SALZ18@12 SALZ18@12 | KAIS6@05 3 KAIS6@06 4 KAIS6@09 3 KAIS6@10 3 KAIS6@12 3 KAIS6@03 4 KAIS6@04 4 KAIS6@07 6 KAIS6@08 3 KAIS6@11 4 KAIS6@13 4 KAIS6@14 9 KAIS6@14 9 KAIS6@14 9 KAIS6@14 9 KAIS6@14 9 KAIS6@14 9 KAIS6@40 10 KAIS6@49 13 KAIS6@49 13 KAIS6@49 13 SALZ18@01 11 SALZ18@03 23 SALZ18@04 20 SALZ18@05 28 SALZ18@06 11 SALZ18@07 23 SALZ18@09 18 SALZ18@01 19 SALZ18@01 19 SALZ18@11 13 SALZ18@13 | KAIS6@05 3 10157 KAIS6@06 4 15227 KAIS6@09 3 10348 KAIS6@10 3 12624 KAIS6@12 3 10457 KAIS6@03 4 15947 KAIS6@04 4 16156 KAIS6@07 6 11981 KAIS6@11 4 13094 KAIS6@13 4 13271 KAIS6@14 9 13459 KAIS6@14 9 13459 KAIS6@40 10 32326 KAIS6@47 9 31411 KAIS6@49 13 18241 KAIS6@01 11 443 SALZ18@03 23 12452 SALZ18@04 20 8334 SALZ18@05 28 6912 SALZ18@07 <td< th=""><th>KAIS6@05 3 10157 2957 KAIS6@06 4 15227 3566 KAIS6@09 3 10348 3946 KAIS6@10 3 12624 4224 KAIS6@12 3 10457 3171 KAIS6@03 4 15947 3922 KAIS6@04 4 16156 3905 KAIS6@07 6 11981 2002 KAIS6@11 4 13094 3210 KAIS6@13 4 13271 3273 KAIS6@14 9 13459 1568 KAIS6@14 9 13459 1568 KAIS6@40 10 32326 3141 KAIS6@47 9 31411 3692 KAIS6@48 13 18728 1403 KAIS6@49 13 18241 1449 SALZ18@01 11 443 40 SALZ18@03 23 12452 552 SALZ18@03 23 12452</th><th>KAIS6@05 3 10157 2957 96 KAIS6@06 4 15227 3566 104 KAIS6@09 3 10348 3946 74 KAIS6@10 3 12624 4224 90 KAIS6@12 3 10457 3171 91 KAIS6@03 4 15947 3922 100 KAIS6@04 4 16156 3905 91 KAIS6@07 6 11981 2002 89 KAIS6@11 4 13094 3210 89 KAIS6@13 4 13271 3273 88 KAIS6@14 9 13459 1568 105 KAIS6@20 14 25376 1840 225 KAIS6@49 13 18728 1403 217 KAIS6@49 13 18241 1449 248 SALZ18@01 11 443 40 428 SALZ18@02 19 11907 639</th><th>KAIS6@053101572957962KAIS6@0641522735661042KAIS6@093103483946741KAIS6@103126244224902KAIS6@123104573171912KAIS6@0341594739221002KAIS6@044161563905912KAIS6@083104663145872KAIS6@114130943210892KAIS6@134132713273882KAIS6@1491345915681054KAIS6@149314130133KAIS6@1493141136923113KAIS6@49131872814032173KAIS6@49131872814032173KAIS6@49131824114492483KAIS6@49131824114492483KAIS6@491312452552129111SALZ18@032312452552129111SALZ18@0420833440780010SALZ18@05286912245123912SALZ18@06112256200120013SALZ18@09183952224135318SALZ18@09183952224135318<!--</th--><th>KAIS6@0531015729579620.837KAIS6@06415227356610420.828KAIS6@0931034839467410.828KAIS6@1031262442249020.828KAIS6@1231045731719120.822KAIS6@03415947392210020.844KAIS6@0441615639059120.829KAIS6@0761198120028940.843KAIS6@1341309432108920.824KAIS6@1341327132738820.842KAIS6@1341327132738820.842KAIS6@14913459156810540.827KAIS6@401032326314130130.800KAIS6@47931411369231130.818KAIS6@481318728140321730.836KAIS6@491318241144924830.813KAIS6@491318241144924830.813KAIS6@491318241144924830.814SALZ18@01114434042860.642SALZ18@0323124525521291110.191SALZ18@04208334407<td< th=""><th>KAIS6@05 3 10157 2957 96 2 0.837 1.0 KAIS6@06 4 15227 3566 104 2 0.828 1.0 KAIS6@09 3 10348 3946 74 1 0.828 0.7 KAIS6@10 3 12624 4224 90 2 0.828 0.9 KAIS6@12 3 10457 3171 91 2 0.822 1.0 KAIS6@03 4 15947 3922 100 2 0.844 1.0 KAIS6@04 4 16156 3905 91 2 0.829 1.0 KAIS6@08 3 10466 3145 87 2 0.842 0.8 KAIS6@13 4 13094 3210 89 2 0.830 1.1 KAIS6@13 4 13271 3273 88 2 0.842 1.0 KAIS6@40 10 32326 3141 301</th><th>KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001564 KAIS6@10 3 12624 4224 90 2 0.828 0.9 0.001755 KAIS6@12 3 10457 3171 91 2 0.822 1.0 0.001524 KAIS6@03 4 15947 3922 100 2 0.844 1.0 0.001531 KAIS6@04 4 16156 3905 91 2 0.829 1.0 0.001521 KAIS6@08 3 10466 3145 87 2 0.824 0.8 0.001711 KAIS6@13 4 13271 3273 88 2 0.837 1.1 0.001621 KAIS6@14 9 13459 1568 105 4 0.827 1.7 0.001323 KAIS6@14 9 31411</th><th>C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001642 2.84 KAIS6@10 3 12624 4224 90 2 0.828 0.9 0.001752 2.74 KAIS6@12 3 10457 3171 91 2 0.828 0.9 0.001752 2.74 KAIS6@03 4 15947 3922 100 2 0.822 1.0 0.001524 2.91 KAIS6@04 4 16156 3905 91 2 0.829 1.0 0.001513 3.25 KAIS6@04 3 10466 3145 87 2 0.824 0.8 0.001711 2.68 KAIS6@13 4 13271 3273 88 2 0.830 1.1 0.001621 2.84 KAIS6@14 9 13459 1568</th><th>C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 C KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001674 2.84 36 KAIS6@10 3 10457 3171 91 2 0.828 0.9 0.001752 2.68 41 KAIS6@12 3 10457 3171 91 2 0.822 1.0 0.00152 2.68 41 KAIS6@13 4 15947 3922 100 2 0.844 1.0 0.00152 2.88 41 KAIS6@08 3 1046 3145 87 2 0.824 0.8 0.001711 2.68 44 KAIS6@13 4 13217 3273 88
 2 0.827 1.7 0.001621 2.84 41 KAIS6@13 14 25376 1840 225 2 0.837 1.1</th><th>C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.001010 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001564 2.84 36 0.000995 KAIS6@10 3 12624 4224 90 2 0.828 0.9 0.001752 2.74 42 0.001070 KAIS6@10 3 12624 4224 90 2 0.828 0.9 0.001752 2.68 41 0.001020 KAIS6@13 4 1597 392 100 2 0.822 1.0 0.001531 325 40 0.000890 KAIS6@14 4 16156 305 91 2 0.822 1.0 0.001513 325 40 0.000890 KAIS6@13 4 13271 3273 88 2 0.837 1.1 0.001621 2.84 41 0.000962 KAIS6</th><th>C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.001101 1.9 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001564 2.84 36 0.000995 2.0 KAIS6@10 3 10348 3946 74 1 0.828 0.7 0.001752 2.68 41 0.001071 1.8 KAIS6@10 3 10457 3171 91 2 0.822 1.0 0.001752 2.68 41 0.001094 2.0 KAIS6@10 4 15050 91 2 0.829 1.0 0.001531 3.25 40 0.000890 2.1 KAIS6@11 4 13094 3210 89 2 0.830 1.1 0.001621 2.84 44 0.000917 1.9 KAIS6@13 14 25371 88 2 0.837 1.1 0.001132 3.3<!--</th--><th>C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.001010 1.9 2.041 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001564 2.84 36 0.000995 2.0 2.011 KAIS6@10 3 10247 4224 90 2 0.828 0.9 0.001795 2.44 42 0.001705 2.46 41 0.00037 1.8 20.061 KAIS6@12 3 10457 3171 3922 100 2 0.822 1.0 0.001532 2.81 41 0.000890 2.1 17.98 KAIS6@14 4 16156 3905 91 2 0.821 1.0 0.001531 3.25 40 0.000890 2.1 17.93 KAIS6@13 4 13094 3210 88 2 0.821 1.0 0.001632 2.87 42 0.000846</th><th>C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.001101 1.9 20.41 0.38 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.00154 2.84 36 0.000995 2.0 20.11 0.40 KAIS6@10 3 10454 3171 90 2 0.828 0.9 0.001752 2.48 41 0.00120 18 20.61 0.37 KAIS6@12 3 10457 3711 91 2 0.829 1.0 0.00152 2.91 39 0.000944 2.0 1.907 0.38 KAIS6@13 4 15947 3922 100 2 0.844 1.00 0.001531 3.25 40 0.00080 2.1 1.798 0.38 KAIS6@14 4 1394 3010 89 4 0.801711 2.68 44 0.000807 2.1 17.</th><th>KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.00101 1.9 2.0.41 0.38 0.001055 KAIS6@06 4 15227 5566 1.04 2 0.828 0.0 0.001564 2.84 56 0.000935 2.0 2.0.11 0.40 0.000944 KAIS6@10 3 10348 3946 74 1 0.828 0.7 0.001755 2.74 42 0.00103 1.8 2.066 0.37 0.00133 KAIS6@12 3 10457 371 91 2 0.822 1.0 0.00131 3.25 40 0.000877 2.1 17.98 0.38 0.00021 KAIS6@04 4 16181 2002 89 2 0.824 0.80 0.00171 2.68 44 0.000877 2.1 17.93 0.03 0.000879 KAIS6@04 4 13981 873 0.8024 0.80</th><th>KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.09 38 0.001001 1.9 20.41 0.38 0.001675 3.0 KAIS6@06 4 15227 3566 104 2 0.828 0.7 0.00144 2.11 42 0.001030 1.5 2.0.8 0.32 0.00173 3.1 KAIS6@10 3 10457 3171 91 2 0.822 1.0 0.00175 2.48 41 0.001033 3.1 KAIS6@12 3 10457 3171 91 2 0.822 1.0 0.001751 2.48 44 0.000077 3.8 0.00077 3.3 KAIS6@04 4 15947 3922 100 2.0 0.84 0.00152 2.84 44 0.00087 2.1 1.79 0.33 0.00077 3.3 KAIS6@04 4 1398 138 0.88 0.43 0.000132 3.14 0.000162<th>C KAIS6@15 3 10157 2957 96 2 0.837 1.0 0.00167 2.49 38 0.00101 1.9 2.0.41 0.38 0.00103 3.0 20.09 KAIS6@169 3 10348 344 74 1 0.828 0.7 0.00179 7.2 2.0 0.00137 1.8 2.04 0.38 0.00137 3.7 2.049 KAIS6@12 3 10457 3171 91 2 0.822 1.0 0.001752 2.48 41 0.00120 1.8 2.061 0.37 0.01039 3.3 1.800 KAIS6@17 6 11981 2.022 8.9 4 0.00152 2.89 44 0.000897 2.3 1.7.9 0.33 0.00977 3.7 1.7.11 KAIS6@14 4 1394 3210 89 2 0.829 1.0 0.00152 2.9 44 0.000897 2.3 1.7.9 0.33 0.00097 3.3</th></th></th></td<></th></th></td<> | KAIS6@05 3 10157 2957 KAIS6@06 4 15227 3566 KAIS6@09 3 10348 3946 KAIS6@10 3 12624 4224 KAIS6@12 3 10457 3171 KAIS6@03 4 15947 3922 KAIS6@04 4 16156 3905 KAIS6@07 6 11981 2002 KAIS6@11 4 13094 3210 KAIS6@13 4 13271 3273 KAIS6@14 9 13459 1568 KAIS6@14 9 13459 1568 KAIS6@40 10 32326 3141 KAIS6@47 9 31411 3692 KAIS6@48 13 18728 1403 KAIS6@49 13 18241 1449 SALZ18@01 11 443 40 SALZ18@03 23 12452 552 SALZ18@03 23 12452 | KAIS6@05 3 10157 2957 96 KAIS6@06 4 15227 3566 104 KAIS6@09 3 10348 3946 74 KAIS6@10 3 12624 4224 90 KAIS6@12 3 10457 3171 91 KAIS6@03 4 15947 3922 100 KAIS6@04 4 16156 3905 91 KAIS6@07 6 11981 2002 89 KAIS6@11 4 13094 3210 89
 KAIS6@13 4 13271 3273 88 KAIS6@14 9 13459 1568 105 KAIS6@20 14 25376 1840 225 KAIS6@49 13 18728 1403 217 KAIS6@49 13 18241 1449 248 SALZ18@01 11 443 40 428 SALZ18@02 19 11907 639 | KAIS6@053101572957962KAIS6@0641522735661042KAIS6@093103483946741KAIS6@103126244224902KAIS6@123104573171912KAIS6@0341594739221002KAIS6@044161563905912KAIS6@083104663145872KAIS6@114130943210892KAIS6@134132713273882KAIS6@1491345915681054KAIS6@149314130133KAIS6@1493141136923113KAIS6@49131872814032173KAIS6@49131872814032173KAIS6@49131824114492483KAIS6@49131824114492483KAIS6@491312452552129111SALZ18@032312452552129111SALZ18@0420833440780010SALZ18@05286912245123912SALZ18@06112256200120013SALZ18@09183952224135318SALZ18@09183952224135318 </th <th>KAIS6@0531015729579620.837KAIS6@06415227356610420.828KAIS6@0931034839467410.828KAIS6@1031262442249020.828KAIS6@1231045731719120.822KAIS6@03415947392210020.844KAIS6@0441615639059120.829KAIS6@0761198120028940.843KAIS6@1341309432108920.824KAIS6@1341327132738820.842KAIS6@1341327132738820.842KAIS6@14913459156810540.827KAIS6@401032326314130130.800KAIS6@47931411369231130.818KAIS6@481318728140321730.836KAIS6@491318241144924830.813KAIS6@491318241144924830.813KAIS6@491318241144924830.814SALZ18@01114434042860.642SALZ18@0323124525521291110.191SALZ18@04208334407<td< th=""><th>KAIS6@05 3 10157 2957 96 2 0.837 1.0 KAIS6@06 4 15227 3566 104 2 0.828 1.0 KAIS6@09 3 10348 3946 74 1 0.828 0.7 KAIS6@10 3 12624 4224 90 2 0.828 0.9 KAIS6@12 3 10457 3171 91 2 0.822 1.0 KAIS6@03 4 15947 3922 100 2 0.844 1.0 KAIS6@04 4 16156 3905 91 2 0.829 1.0 KAIS6@08 3 10466 3145 87 2 0.842 0.8 KAIS6@13 4 13094 3210 89 2 0.830 1.1 KAIS6@13 4 13271 3273 88 2 0.842 1.0 KAIS6@40 10 32326 3141 301</th><th>KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001564 KAIS6@10 3 12624 4224 90 2 0.828 0.9 0.001755 KAIS6@12 3 10457 3171 91 2 0.822 1.0 0.001524 KAIS6@03 4 15947 3922 100 2 0.844 1.0 0.001531 KAIS6@04 4 16156 3905 91 2 0.829 1.0 0.001521 KAIS6@08 3 10466 3145 87 2 0.824 0.8 0.001711 KAIS6@13 4 13271 3273 88 2 0.837 1.1 0.001621 KAIS6@14 9 13459 1568 105 4 0.827 1.7 0.001323 KAIS6@14 9 31411</th><th>C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001642 2.84 KAIS6@10 3 12624 4224 90 2 0.828 0.9 0.001752 2.74 KAIS6@12 3 10457 3171 91 2 0.828 0.9 0.001752 2.74 KAIS6@03 4 15947 3922 100 2 0.822 1.0 0.001524 2.91 KAIS6@04 4 16156 3905 91 2 0.829 1.0 0.001513 3.25 KAIS6@04 3 10466 3145 87 2 0.824 0.8 0.001711 2.68 KAIS6@13 4 13271 3273 88 2 0.830 1.1 0.001621 2.84 KAIS6@14 9 13459 1568</th><th>C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 C KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001674 2.84 36 KAIS6@10 3 10457 3171 91 2 0.828 0.9 0.001752 2.68 41 KAIS6@12 3 10457 3171 91 2 0.822 1.0 0.00152 2.68 41 KAIS6@13 4 15947 3922 100 2 0.844 1.0 0.00152 2.88 41 KAIS6@08 3 1046 3145 87 2 0.824 0.8 0.001711 2.68 44 KAIS6@13 4 13217 3273 88 2 0.827 1.7 0.001621 2.84 41 KAIS6@13 14 25376 1840 225 2 0.837 1.1</th><th>C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.001010 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001564 2.84 36 0.000995 KAIS6@10 3 12624 4224 90 2 0.828 0.9 0.001752 2.74 42 0.001070 KAIS6@10 3 12624 4224 90 2 0.828 0.9 0.001752 2.68 41 0.001020 KAIS6@13 4 1597 392 100 2 0.822 1.0 0.001531 325 40 0.000890 KAIS6@14 4 16156 305 91 2 0.822 1.0 0.001513 325 40 0.000890 KAIS6@13 4 13271 3273 88 2 0.837 1.1 0.001621 2.84 41 0.000962 KAIS6</th><th>C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.001101 1.9 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001564 2.84 36 0.000995 2.0 KAIS6@10 3 10348 3946 74 1 0.828 0.7 0.001752 2.68 41 0.001071 1.8 KAIS6@10 3 10457 3171 91 2 0.822 1.0 0.001752 2.68 41 0.001094 2.0 KAIS6@10 4 15050 91 2 0.829 1.0 0.001531 3.25 40 0.000890 2.1 KAIS6@11 4 13094 3210 89 2 0.830 1.1 0.001621 2.84 44 0.000917 1.9 KAIS6@13 14 25371 88 2 0.837 1.1 0.001132 3.3<!--</th--><th>C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.001010 1.9 2.041 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001564 2.84 36 0.000995 2.0 2.011 KAIS6@10 3 10247 4224 90 2 0.828 0.9 0.001795 2.44 42 0.001705 2.46 41 0.00037 1.8 20.061 KAIS6@12 3 10457 3171 3922 100 2 0.822 1.0 0.001532 2.81 41 0.000890 2.1 17.98 KAIS6@14 4 16156 3905 91 2 0.821 1.0 0.001531 3.25 40 0.000890 2.1 17.93 KAIS6@13 4 13094 3210 88 2 0.821 1.0 0.001632 2.87 42 0.000846</th><th>C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.001101 1.9 20.41 0.38 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.00154 2.84 36 0.000995 2.0 20.11 0.40 KAIS6@10 3 10454 3171 90 2
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0.001752 2.74 KAIS6@12 3 10457 3171 91 2 0.828 0.9 0.001752 2.74 KAIS6@03 4 15947 3922 100 2 0.822 1.0 0.001524 2.91 KAIS6@04 4 16156 3905 91 2 0.829 1.0 0.001513 3.25 KAIS6@04 3 10466 3145 87 2 0.824 0.8 0.001711 2.68 KAIS6@13 4 13271 3273 88 2 0.830 1.1 0.001621 2.84 KAIS6@14 9 13459 1568 | C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 C KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001674 2.84 36 KAIS6@10 3 10457 3171 91 2 0.828 0.9 0.001752 2.68 41 KAIS6@12 3 10457 3171 91 2 0.822 1.0 0.00152 2.68 41 KAIS6@13 4 15947 3922 100 2 0.844 1.0 0.00152 2.88 41 KAIS6@08 3 1046 3145 87 2 0.824 0.8 0.001711 2.68 44 KAIS6@13 4 13217 3273 88 2 0.827 1.7 0.001621 2.84 41 KAIS6@13 14 25376 1840 225 2 0.837 1.1 | C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.001010 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001564 2.84 36 0.000995 KAIS6@10 3 12624 4224 90 2 0.828 0.9 0.001752 2.74 42 0.001070 KAIS6@10 3 12624 4224 90 2 0.828 0.9 0.001752 2.68 41 0.001020 KAIS6@13 4 1597 392 100 2 0.822 1.0 0.001531 325 40 0.000890 KAIS6@14 4 16156 305 91 2 0.822 1.0 0.001513 325 40 0.000890 KAIS6@13 4 13271 3273 88 2 0.837 1.1 0.001621 2.84 41 0.000962 KAIS6 | C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.001101 1.9 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001564 2.84 36 0.000995 2.0 KAIS6@10 3 10348 3946 74 1 0.828 0.7 0.001752 2.68 41 0.001071 1.8 KAIS6@10 3 10457 3171 91 2 0.822 1.0 0.001752 2.68 41 0.001094 2.0 KAIS6@10 4 15050 91 2 0.829 1.0 0.001531 3.25 40 0.000890 2.1 KAIS6@11 4 13094 3210 89 2 0.830 1.1 0.001621 2.84 44 0.000917 1.9 KAIS6@13 14 25371 88 2 0.837 1.1 0.001132 3.3 </th <th>C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.001010 1.9 2.041 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001564 2.84 36 0.000995 2.0 2.011 KAIS6@10 3 10247 4224 90 2 0.828 0.9 0.001795 2.44 42 0.001705 2.46 41 0.00037 1.8 20.061 KAIS6@12 3 10457 3171 3922 100 2 0.822 1.0 0.001532 2.81 41 0.000890 2.1 17.98 KAIS6@14 4 16156 3905 91 2 0.821 1.0 0.001531 3.25 40 0.000890 2.1 17.93 KAIS6@13 4 13094 3210 88 2 0.821 1.0 0.001632 2.87 42 0.000846</th> <th>C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.001101 1.9 20.41 0.38 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.00154 2.84 36 0.000995 2.0 20.11 0.40 KAIS6@10 3 10454 3171 90 2 0.828 0.9 0.001752 2.48 41 0.00120 18 20.61 0.37 KAIS6@12 3 10457 3711 91 2 0.829 1.0 0.00152 2.91 39 0.000944 2.0 1.907 0.38 KAIS6@13 4 15947 3922 100 2 0.844 1.00 0.001531 3.25 40 0.00080 2.1 1.798 0.38 KAIS6@14 4 1394 3010 89 4 0.801711 2.68 44 0.000807 2.1 17.</th> <th>KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.00101 1.9 2.0.41 0.38 0.001055 KAIS6@06 4 15227 5566 1.04 2 0.828 0.0 0.001564 2.84 56 0.000935 2.0 2.0.11 0.40 0.000944 KAIS6@10 3 10348 3946 74 1 0.828 0.7 0.001755 2.74 42 0.00103 1.8 2.066 0.37 0.00133 KAIS6@12 3 10457 371 91 2 0.822 1.0 0.00131 3.25 40 0.000877 2.1 17.98 0.38 0.00021 KAIS6@04 4 16181 2002 89 2 0.824 0.80 0.00171 2.68 44 0.000877 2.1 17.93 0.03 0.000879 KAIS6@04 4 13981 873 0.8024 0.80</th> <th>KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.09 38 0.001001 1.9 20.41 0.38 0.001675 3.0 KAIS6@06 4 15227 3566 104 2 0.828 0.7 0.00144 2.11 42 0.001030 1.5 2.0.8 0.32 0.00173 3.1 KAIS6@10 3 10457 3171 91 2 0.822 1.0 0.00175 2.48 41 0.001033 3.1 KAIS6@12 3 10457 3171 91 2 0.822 1.0 0.001751 2.48 44 0.000077 3.8 0.00077 3.3 KAIS6@04 4 15947 3922 100 2.0 0.84 0.00152 2.84 44 0.00087 2.1 1.79 0.33 0.00077 3.3 KAIS6@04 4 1398 138 0.88 0.43 0.000132 3.14 0.000162<th>C KAIS6@15 3 10157 2957 96 2 0.837 1.0 0.00167 2.49 38 0.00101 1.9 2.0.41 0.38 0.00103 3.0 20.09 KAIS6@169 3 10348 344 74 1 0.828 0.7 0.00179 7.2 2.0 0.00137 1.8 2.04 0.38 0.00137 3.7 2.049 KAIS6@12 3 10457 3171 91 2 0.822 1.0 0.001752 2.48 41 0.00120 1.8 2.061 0.37 0.01039 3.3 1.800 KAIS6@17 6 11981 2.022 8.9 4 0.00152 2.89 44 0.000897 2.3 1.7.9 0.33 0.00977 3.7 1.7.11 KAIS6@14 4 1394 3210 89 2 0.829 1.0 0.00152 2.9 44 0.000897 2.3 1.7.9 0.33 0.00097 3.3</th></th> |
C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.001010 1.9 2.041 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.001564 2.84 36 0.000995 2.0 2.011 KAIS6@10 3 10247 4224 90 2 0.828 0.9 0.001795 2.44 42 0.001705 2.46 41 0.00037 1.8 20.061 KAIS6@12 3 10457 3171 3922 100 2 0.822 1.0 0.001532 2.81 41 0.000890 2.1 17.98 KAIS6@14 4 16156 3905 91 2 0.821 1.0 0.001531 3.25 40 0.000890 2.1 17.93 KAIS6@13 4 13094 3210 88 2 0.821 1.0 0.001632 2.87 42 0.000846 | C KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.001101 1.9 20.41 0.38 KAIS6@06 4 15227 3566 104 2 0.828 1.0 0.00154 2.84 36 0.000995 2.0 20.11 0.40 KAIS6@10 3 10454 3171 90 2 0.828 0.9 0.001752 2.48 41 0.00120 18 20.61 0.37 KAIS6@12 3 10457 3711 91 2 0.829 1.0 0.00152 2.91 39 0.000944 2.0 1.907 0.38 KAIS6@13 4 15947 3922 100 2 0.844 1.00 0.001531 3.25 40 0.00080 2.1 1.798 0.38 KAIS6@14 4 1394 3010 89 4 0.801711 2.68 44 0.000807 2.1 17. | KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.69 38 0.00101 1.9 2.0.41 0.38 0.001055 KAIS6@06 4 15227 5566 1.04 2 0.828 0.0 0.001564 2.84 56 0.000935 2.0 2.0.11 0.40 0.000944 KAIS6@10 3 10348 3946 74 1 0.828 0.7 0.001755 2.74 42 0.00103 1.8 2.066 0.37 0.00133 KAIS6@12 3 10457 371 91 2 0.822 1.0 0.00131 3.25 40 0.000877 2.1 17.98 0.38 0.00021 KAIS6@04 4 16181 2002 89 2 0.824 0.80 0.00171 2.68 44 0.000877 2.1 17.93 0.03 0.000879 KAIS6@04 4 13981 873 0.8024 0.80 | KAIS6@05 3 10157 2957 96 2 0.837 1.0 0.001672 2.09 38 0.001001 1.9 20.41 0.38 0.001675 3.0 KAIS6@06 4 15227 3566 104 2 0.828 0.7 0.00144 2.11 42 0.001030 1.5 2.0.8 0.32 0.00173 3.1 KAIS6@10 3 10457 3171 91 2 0.822 1.0 0.00175 2.48 41 0.001033 3.1 KAIS6@12 3 10457 3171 91 2 0.822 1.0 0.001751 2.48 44 0.000077 3.8 0.00077 3.3 KAIS6@04 4 15947 3922 100 2.0 0.84 0.00152 2.84 44 0.00087 2.1 1.79 0.33 0.00077 3.3 KAIS6@04 4 1398 138 0.88 0.43 0.000132 3.14 0.000162 <th>C KAIS6@15 3 10157 2957 96 2 0.837 1.0 0.00167 2.49 38 0.00101 1.9 2.0.41 0.38 0.00103 3.0 20.09 KAIS6@169 3 10348 344 74 1 0.828 0.7 0.00179 7.2 2.0 0.00137 1.8 2.04 0.38 0.00137 3.7 2.049 KAIS6@12 3 10457 3171 91 2 0.822 1.0 0.001752 2.48 41 0.00120 1.8 2.061 0.37 0.01039 3.3 1.800 KAIS6@17 6 11981 2.022 8.9 4 0.00152 2.89 44 0.000897 2.3 1.7.9 0.33 0.00977 3.7 1.7.11 KAIS6@14 4 1394 3210 89 2 0.829 1.0 0.00152 2.9 44 0.000897 2.3 1.7.9 0.33 0.00097 3.3</th> | C KAIS6@15 3 10157 2957 96 2 0.837 1.0 0.00167 2.49 38 0.00101 1.9 2.0.41 0.38 0.00103 3.0 20.09 KAIS6@169 3 10348 344 74 1 0.828 0.7 0.00179 7.2 2.0 0.00137 1.8 2.04 0.38 0.00137 3.7 2.049 KAIS6@12 3 10457 3171 91 2 0.822 1.0 0.001752 2.48 41 0.00120 1.8 2.061 0.37 0.01039 3.3 1.800 KAIS6@17 6 11981 2.022 8.9 4 0.00152 2.89 44 0.000897 2.3 1.7.9 0.33 0.00977 3.7 1.7.11 KAIS6@14 4 1394 3210 89 2 0.829 1.0 0.00152 2.9 44 0.000897 2.3 1.7.9 0.33 0.00097 3.3 |

	SALZ18@14	22	1037	48	975	11	0.270	6.1	0.000953	2.24	1	0.000938	2.3	18.95	0.43	0.000941	2.24	19.01	0.43
	SALZ18@15	37	9684	262	1073	14	0.224	7.5	0.000792	2.37	1	0.000781	2.4	15.79	0.38	0.000783	2.37	15.81	0.37
	LOHN4@01	14	14552	1076	79	1	0.826	0.7	0.001981	2.96	47	0.001031	1.7	20.84	0.35	0.001059	3.57	21.39	0.76
	LOHN4@02	39	25804	662	272	3	0.779	1.4	0.001112	3.21	13	0.000964	2.8	19.47	0.55	0.000969	3.24	19.58	0.63
	LOHN4@03	11	12883	1175	151	2	0.805	1.2	0.001356	2.67	24	0.001026	2.1	20.73	0.44	0.001033	2.76	20.86	0.58
	LOHN4@04	16	16561	1017	173	2	0.820	1.2	0.001332	2.87	22	0.001051	2.3	21.23	0.49	0.001045	2.96	21.12	0.63
	LOHN4@07	34	35456	1048	338	2	0.779	1.1	0.001218	2.68	10	0.001094	2.4	22.11	0.53	0.001097	2.69	22.16	0.60
	LOHN4@08	31	32345	1044	312	2	0.782	1.0	0.001208	2.75	11	0.001074	2.5	21.70	0.53	0.001070	2.77	21.62	0.60
	LOHN4@09	33	34180	1040	323	2	0.790	1.1	0.001224	2.70	11	0.001094	2.4	22.09	0.54	0.001092	2.71	22.07	0.60
	LOHN4@10	33	35690	1072	349	2	0.788	1.1	0.001171	2.68	10	0.001058	2.4	21.38	0.52	0.001060	2.69	21.41	0.57
	LOHN4@11	34	29955	888	355	3	0.796	1.3	0.001085	2.67	10	0.000977	2.4	19.75	0.48	0.000977	2.68	19.74	0.53
	LOHN4@12	27	29155	1065	366	3	0.776	1.3	0.001185	2.68	9	0.001078	2.5	21.77	0.53	0.001082	2.69	21.86	0.59
	LOHN4@13	26	23964	935	97	2	0.823	0.7	0.001750	2.99	39	0.001071	1.9	21.64	0.42	0.001066	3.32	21.54	0.72
	LOHN4@14	28	22365	792	156	2	0.806	1.0	0.001418	2.83	23	0.001087	2.2	21.97	0.49	0.001089	2.96	22.01	0.65
	LOHN4@15	24	20864	866	523	4	0.742	1.9	0.001109	2.69	6	0.001040	2.5	21.00	0.53	0.001044	2.70	21.09	0.57
	LOHN4@16	30	23937	797	575	4	0.728	2.2	0.001062	2.75	5	0.001003	2.6	20.25	0.53	0.001006	2.76	20.33	0.56
	LOHN4@19	27	21599	807	299	3	0.788	1.3	0.001221	2.71	12	0.001075	2.4	21.71	0.52	0.001080	2.72	21.82	0.59
	LOHN4@20	29	23422	801	350	3	0.785	1.4	0.001156	2.67	10	0.001042	2.4	21.06	0.51	0.001041	2.68	21.02	0.56
	LOHN4@21	16	17205	1046	171	2	0.798	1.0	0.001354	2.70	22	0.001064	2.2	21.49	0.47	0.001060	2.76	21.41	0.59
	LOHN4@22	17	16983	991	165	2	0.810	1.1	0.001359	2.76	22	0.001055	2.2	21.31	0.47	0.001057	2.82	21.35	0.60
	LOHN4@23	16	17269	1091	162	2	0.819	1.0	0.001388	2.79	23	0.001074	2.2	21.70	0.48	0.001065	2.85	21.52	0.61
	LOHN4@24	20	21768	1108	176	2	0.810	1.1	0.001258	2.87	22	0.000990	2.3	20.00	0.46	0.000985	2.93	19.90	0.58
	LOHN4@25	18	15361	875	174	3	0.823	1.2	0.001232	2.68	21	0.000969	2.2	19.58	0.43	0.000979	2.74	19.77	0.54
	LOHN4@26	15	17857	1172	172	2	0.806	1.1	0.001276	2.68	21	0.001001	2.2	20.21	0.44	0.001012	2.73	20.44	0.56
	LOHN4@27	27	26405	974	184	2	0.819	0.9	0.001317	2.72	19	0.001056	2.2	21.34	0.47	0.001064	2.76	21.50	0.59
	LOHN4@28	28	27181	955	190	2	0.816	0.9	0.001324	2.80	20	0.001068	2.3	21.58	0.49	0.001066	2.84	21.53	0.61
А	LOHN4@29	27	25484	955	191	2	0.809	1.0	0.001304	2.85	20	0.001051	2.3	21.22	0.50	0.001048	2.90	21.18	0.61
	LOHN4@30	27	25099	915	190	2	0.798	0.9	0.001322	2.71	19	0.001067	2.2	21.55	0.48	0.001068	2.75	21.58	0.59
	LOHN4@31	30	25226	855	433	3	0.777	1.6	0.001235	2.67	8	0.001139	2.5	23.00	0.57	0.001134	2.68	22.92	0.61
	LOHN4@32	36	21812	606	287	4	0.797	1.7	0.001212	2.70	13	0.001061	2.4	21.43	0.52	0.001053	2.73	21.27	0.58

	LOHN4@33	27	23182	856	199	2	0.805	1.0	0.001233	2.67	18	0.001002	2.2	20.24	0.45	0.001011	2.71	20.42	0.55
	LOHN4@34	26	24807	948	188	2	0.812	1.0	0.001293	2.71	19	0.001043	2.2	21.06	0.47	0.001044	2.75	21.09	0.58
	LOHN4@35	25	23076	925	174	2	0.812	0.9	0.001327	3.07	21	0.001045	2.5	21.11	0.52	0.001052	3.14	21.26	0.67
	LOHN4@36	26	25326	972	190	2	0.786	0.9	0.001308	2.73	19	0.001052	2.2	21.25	0.47	0.001061	2.77	21.43	0.59
	LOHN4@37	27	26268	980	210	2	0.802	1.0	0.001282	2.78	17	0.001062	2.3	21.45	0.50	0.001061	2.81	21.43	0.60
	LOHN4@38	27	27571	1016	218	2	0.812	1.0	0.001239	2.72	16	0.001033	2.3	20.87	0.48	0.001040	2.75	21.02	0.58
	LOHN4@39	26	25481	988	207	2	0.806	0.9	0.001272	2.69	18	0.001047	2.2	21.16	0.48	0.001044	2.72	21.08	0.57
	LOHN4@40	26	26144	1007	211	2	0.814	1.0	0.001245	2.78	17	0.001029	2.3	20.78	0.48	0.001032	2.81	20.85	0.59
	LOHN4@41	19	24124	1248	221	2	0.800	1.0	0.001271	2.72	17	0.001061	2.3	21.44	0.49	0.001057	2.75	21.35	0.59
	LOHN4@42	19	23602	1235	226	2	0.816	1.1	0.001279	2.74	16	0.001078	2.3	21.78	0.51	0.001076	2.77	21.73	0.60
	LOHN4@43	21	23764	1157	236	2	0.802	1.1	0.001247	2.70	15	0.001057	2.3	21.36	0.49	0.001059	2.72	21.40	0.58
	LOHN4@44	20	23194	1138	231	2	0.803	1.1	0.001254	2.72	15	0.001055	2.3	21.32	0.49	0.001067	2.74	21.56	0.59
	LOHN4@45	20	23831	1188	232	2	0.787	1.0	0.001255	2.70	15	0.001058	2.3	21.37	0.49	0.001065	2.72	21.51	0.58
	LOHN4@46	20	20913	1027	204	2	0.813	1.0	0.001277	2.67	17	0.001047	2.2	21.16	0.47	0.001058	2.70	21.38	0.58
	LOHN4@48	22	23727	1093	262	2	0.808	1.1	0.001210	2.78	14	0.001045	2.4	21.12	0.51	0.001046	2.80	21.13	0.59
	LOHN4@49	22	23546	1065	259	2	0.789	1.1	0.001179	2.73	13	0.001018	2.4	20.56	0.49	0.001022	2.75	20.65	0.57
	LOHN4@50	21	22193	1049	260	2	0.806	1.2	0.001208	2.70	13	0.001045	2.4	21.12	0.50	0.001047	2.72	21.15	0.57
	LOHN4@51	20	22103	1121	259	2	0.800	1.2	0.001179	2.67	14	0.001014	2.3	20.48	0.48	0.001011	2.69	20.43	0.55
	LOHN4@52	20	20091	1023	242	2	0.785	1.2	0.001146	2.68	14	0.000973	2.3	19.66	0.45	0.000987	2.70	19.93	0.54
	LOHN4@53	10	15092	1539	136	2	0.818	1.0	0.001422	2.69	28	0.001029	2.0	20.80	0.42	0.001030	2.79	20.80	0.58
	LOHN4@54	10	13028	1330	137	2	0.812	1.1	0.001350	2.66	26	0.000979	2.0	19.78	0.40	0.000993	2.78	20.07	0.56
	LOHN4@55	10	14821	1515	137	2	0.806	1.0	0.001355	2.67	27	0.000982	2.0	19.83	0.40	0.000983	2.78	19.85	0.55
	LOHN4@05	19	14990	787	171	4	0.821	1.6	0.001129	3.06	22	0.000882	2.5	17.83	0.45	0.000875	3.15	17.68	0.56
	LOHN4@06	31	9191	298	146	5	0.794	2.3	0.001237	3.80	26	0.000913	3.1	18.45	0.58	0.000912	3.95	18.42	0.73
	LOHN4@17	32	23011	717	714	6	0.732	2.8	0.000980	3.29	5	0.000936	3.2	18.91	0.60	0.000933	3.29	18.85	0.62
В	LOHN4@18	39	23334	591	461	5	0.760	2.3	0.001003	3.06	8	0.000927	2.9	18.73	0.54	0.000923	3.07	18.66	0.57
	LOHN4@47	23	19054	816	222	3	0.808	1.2	0.001120	2.66	15	0.000933	2.3	18.85	0.43	0.000946	2.70	19.12	0.52
	LOHN4@56	9	11815	1254	129	2	0.833	1.2	0.001272	2.78	28	0.000895	2.1	18.07	0.38	0.000913	2.90	18.45	0.53
	LOHN4@57	13	11550	862	133	3	0.826	1.5	0.001194	3.44	28	0.000847	2.6	17.12	0.45	0.000855	3.58	17.28	0.62
	ORT1@01	367	5825	16	1263	17	0.084	2.3	0.000945	2.48	2	0.000912	2.5	18.43	0.46	0.000922	2.5	18.63	0.47

	ORT1@02	316	4437	14	711	23	0.087	2.4	0.000956	2.43	3	0.000905	2.4	18.27	0.44	0.000930	2.5	18.80	0.46
	ORT1@03	277	4950	18	1166	16	0.097	2.5	0.000936	2.26	3	0.000896	2.3	18.10	0.41	0.000911	2.3	18.41	0.42
	ORT1@04	356	4831	14	926	16	0.088	2.4	0.000905	2.92	3	0.000861	2.9	17.40	0.50	0.000877	3.0	17.73	0.53
	ORT1@05	161	5336	33	930	18	0.139	2.6	0.000970	2.17	3	0.000924	2.2	18.67	0.41	0.000941	2.2	19.01	0.42
	ORT1@06	222	3688	17	382	16	0.166	2.1	0.001012	2.99	7	0.000897	3.0	18.12	0.54	0.000938	3.2	18.95	0.61
	ORT1@07	219	5005	23	277	13	0.272	1.6	0.001039	2.23	13	0.000893	2.3	18.05	0.41	0.000902	2.4	18.21	0.43
	ORT1@08	189	5091	27	422	18	0.220	2.0	0.000979	2.96	8	0.000896	2.9	18.09	0.52	0.000901	3.1	18.21	0.56
	ORT1@09	262	6320	24	591	17	0.139	2.3	0.000880	3.78	4	0.000824	3.6	16.65	0.60	0.000841	3.8	16.98	0.65
	ORT1@10	199	7415	37	214	11	0.411	1.2	0.001086	2.24	16	0.000892	2.1	18.01	0.38	0.000912	2.4	18.43	0.44
	ORT1@11	101	3205	32	655	17	0.172	3.0	0.000981	2.61	4	0.000926	2.7	18.71	0.50	0.000941	2.7	19.01	0.51
	ORT1@12	106	3602	34	661	28	0.191	2.9	0.000933	3.58	4	0.000863	3.5	17.44	0.60	0.000895	3.6	18.08	0.66
	ORT1@13	95	4969	52	607	18	0.195	2.9	0.000910	2.82	3	0.000855	2.8	17.28	0.48	0.000883	2.9	17.83	0.51
	ORT1@14	96	3780	40	628	13	0.183	2.9	0.000960	2.17	4	0.000884	2.3	17.86	0.40	0.000923	2.2	18.65	0.42
	ORT1@15	105	4304	41	445	21	0.370	1.9	0.001022	4.60	12	0.000894	4.2	18.06	0.76	0.000903	5.7	18.24	1.04
	EUKL2@01	9	296	32	160	3	0.803	1.2	0.001359	2.12	22	0.001043	1.7	21.07	0.37	0.001063	2.21	21.47	0.47
	EUKL2@02	14	301	22	209	3	0.803	1.2	0.001317	2.51	18	0.001089	2.1	22.00	0.47	0.001080	2.56	21.81	0.56
	EUKL2@03	13	21097	1580	205	2	0.824	1.2	0.001303	2.25	17	0.001072	1.9	21.65	0.41	0.001078	2.30	21.77	0.50
	EUKL2@04	14	18352	1313	231	3	0.812	1.5	0.001253	2.08	16	0.001059	1.8	21.39	0.39	0.001048	2.13	21.16	0.45
	EUKL2@05	33	52673	1620	345	3	0.782	1.3	0.001194	2.17	10	0.001076	2.0	21.74	0.43	0.001079	2.18	21.79	0.48
	EUKL2@06	19	25562	1351	218	2	0.795	1.2	0.001315	2.10	16	0.001097	1.8	22.17	0.40	0.001102	2.14	22.26	0.48
	EUKL2@07	19	16767	868	234	3	0.800	1.2	0.001282	2.10	15	0.001085	1.8	21.91	0.40	0.001085	2.14	21.92	0.47
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	HOAR1@27	148	1591	11	235	13	0.195	2.2	0.001164	1.5	14	0.000973	2.4	19.65	0.48	0.001003	1.6	20.26	0.32
	HOAR1@28	100	1383	14	149	11	0.248	2.2	0.001269	1.2	19	0.000940	2.9	19.00	0.55	0.001031	1.3	20.84	0.28
А	HOAR1@29	95	19676	208	1211	8	0.201	2.5	0.001023	0.8	1	0.000990	0.9	20.00	0.17	0.001013	0.8	20.47	0.17
	HOAR1@30	80	650	8	214	19	0.170	3.3	0.001153	3.6	15	0.000946	4.6	19.10	0.88	0.000978	3.7	19.76	0.74
	HOAR1@31	124	2725	22	497	14	0.169	2.6	0.001070	0.9	6	0.000987	1.4	19.94	0.28	0.001007	0.9	20.35	0.19
	HOAR1@32	316	1076	3	160	12	0.132	2.0	0.001240	3.4	21	0.000950	4.0	19.20	0.76	0.000985	3.5	19.91	0.70
	HOAR1@01	50	926	18	322	20	0.244	3.7	0.001121	4.3	9	0.000999	4.6	20.18	0.92	0.001017	4.4	20.55	0.91
	HOAR1@02	51	782	15	200	18	0.296	3.5	0.001128	3.5	15	0.000911	4.5	18.40	0.83	0.000954	4.5	19.27	0.87

	HOAR1@03	48	969	20	250	17	0.205	3.5	0.001088	4.7	8	0.000920	4.8	18.59	0.89	0.000997	5.0	20.13	1.00
	HOAR1@04	71	1075	15	259	18	0.182	3.5	0.001075	4.3	9	0.000926	4.6	18.70	0.85	0.000982	4.5	19.84	0.89
	HOAR1@05	79	643	8	233	21	0.197	3.4	0.001118	4.2	16	0.000932	4.9	18.84	0.92	0.000940	5.0	18.98	0.94
	HOAR1@06	118	1676	14	330	15	0.148	2.9	0.001046	2.8	7	0.000924	3.1	18.66	0.57	0.000977	3.0	19.73	0.59
	HOAR1@07	106	1764	17	448	17	0.162	2.9	0.001065	2.6	7	0.000973	2.8	19.66	0.55	0.000993	2.8	20.07	0.56
	HOAR1@08	67	1358	20	339	18	0.237	3.2	0.001049	2.8	11	0.000938	3.3	18.94	0.62	0.000938	3.0	18.95	0.57
	HOAR1@09	62	1579	25	364	16	0.191	3.3	0.001110	3.0	5	0.000992	3.1	20.04	0.63	0.001050	3.2	21.20	0.67
	HOAR1@10	266	1995	8	433	15	0.097	2.4	0.001076	2.4	5	0.000980	2.6	19.79	0.52	0.001019	2.6	20.59	0.54
	HOAR1@11	56	6609	117	714	11	0.242	2.7	0.001032	2.2	3	0.000976	2.2	19.71	0.43	0.001005	2.2	20.31	0.45
	HOAR1@12	104	2748	26	263	10	0.359	1.8	0.001163	2.3	15	0.000992	2.4	20.04	0.49	0.000988	2.4	19.96	0.48
В	HOAR1@13	103	3259	32	679	15	0.171	2.7	0.000998	3.0	4	0.000941	3.0	19.01	0.56	0.000959	3.0	19.37	0.59
	HOAR1@14	107	1940	18	272	12	0.213	2.3	0.001115	3.9	10	0.000957	3.7	19.33	0.72	0.001005	4.4	20.30	0.88
	HOAR1@16	145	2711	19	632	16	0.139	2.6	0.001076	2.5	4	0.001010	2.5	20.41	0.51	0.001029	2.5	20.78	0.53
	HOAR1@17	72	1305	18	263	15	0.211	3.1	0.001059	3.7	8	0.000904	3.9	18.26	0.71	0.000969	3.9	19.58	0.77
	HOAR1@18	74	1381	19	292	15	0.196	3.1	0.001088	4.2	8	0.000944	4.2	19.07	0.79	0.000998	4.4	20.16	0.89
	HOAR1@19	60	1129	19	389	19	0.240	3.0	0.001129	3.7	10	0.001026	3.9	20.73	0.81	0.001019	4.0	20.58	0.82
	HOAR1@20	60	1818	30	499	17	0.206	3.2	0.001035	2.6	5	0.000955	2.7	19.29	0.53	0.000978	2.8	19.76	0.55
	HOAR1@21	45	1000	22	183	14	0.309	3.0	0.001130	3.8	15	0.000891	4.2	18.01	0.76	0.000964	4.2	19.47	0.82
	HOAR1@22	49	1540	31	194	12	0.305	2.8	0.001127	2.5	9	0.000909	3.1	18.37	0.57	0.001025	2.9	20.70	0.59
	HOAR1@23	126	1838	15	824	24	0.119	3.4	0.001015	3.2	5	0.000968	3.2	19.55	0.63	0.000966	3.3	19.52	0.64
	HOAR1@24	85	1927	23	511	18	0.147	3.3	0.001026	2.6	5	0.000954	2.8	19.27	0.53	0.000974	2.8	19.67	0.54
	HOAR1@25	53	1330	25	384	19	0.230	3.5	0.001022	2.9	8	0.000919	3.2	18.57	0.60	0.000944	3.0	19.08	0.58
	HOAR1@26	60	1206	20	343	18	0.197	3.5	0.001023	3.1	8	0.000908	3.5	18.34	0.63	0.000940	3.3	18.99	0.63
	HOAR1@15	111	2877	26	112	6	0.516	1.2	0.001353	5.1	29	0.000885	3.9	17.88	0.70	0.000964	7.9	19.47	1.53
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	MOKR1@07	307	3840	13	172	11	0.228	2.1	0.001121	3.2	18	0.000876	3.6	17.69	0.64	0.000915	3.3	18.48	0.61
	MOKR1@08	393	5762	15	259	15	0.228	2.8	0.000997	2.7	13	0.000848	3.2	17.13	0.55	0.000869	2.8	17.55	0.48
	MOKR1@09	916	5949	6	260	14	0.128	2.3	0.000993	2.6	12	0.000845	3.1	17.08	0.52	0.000879	2.7	17.75	0.48
	MOKR1@10	814	2999	4	166	13	0.134	2.0	0.001143	3.7	22	0.000878	4.1	17.74	0.73	0.000890	3.8	17.99	0.68
	MOKR1@11	1852	2971	2	148	21	0.138	3.2	0.001168	2.9	26	0.000976	6.4	19.71	1.25	0.000859	3.3	17.36	0.57
	MOKR1@12	702	7328	10	245	16	0.224	3.1	0.001029	2.6	13	0.000867	3.4	17.51	0.59	0.000899	2.6	18.15	0.47

		MOKR1@20	442	2417	5	255	47	0.062	10.0	0.000754	1.0	5	0.000639	7.2	12.92	0.94	0.000714	1.4	14.42	0.21
		MOKR1@21	473	5279	11	1029	55	0.063	10.2	0.001134	1.0	1	0.001091	2.3	22.05	0.50	0.001124	1.1	22.70	0.24
	Δ	MOKR1@22	410	5545	14	2865	95	0.070	11.4	0.001130	1.6	1	0.001115	2.1	22.52	0.46	0.001119	1.7	22.61	0.37
	Л	MOKR1@23	341	2318	7	483	47	0.104	6.6	0.001093	1.3	8	0.001049	4.4	21.18	0.94	0.001011	1.6	20.43	0.32
		MOKR1@24	507	7589	15	3668	67	0.057	6.1	0.001049	1.5	1	0.001038	1.7	20.97	0.35	0.001042	1.5	21.06	0.32
		MOKR1@25	336	4029	12	1546	67	0.087	7.7	0.001041	1.5	3	0.001015	2.2	20.51	0.46	0.001011	1.6	20.43	0.32
		MOKR1@26	220	4084	19	646	39	0.101	6.7	0.001072	1.3	4	0.001008	2.6	20.37	0.53	0.001034	1.3	20.89	0.28
		MOKR1@27	295	3072	10	626	55	0.108	8.3	0.001021	1.3	5	0.000958	3.6	19.35	0.69	0.000969	1.4	19.58	0.28
		MOKR1@28	395	5188	13	1611	67	0.067	9.2	0.001011	1.1	1	0.000987	1.9	19.93	0.39	0.000997	1.2	20.15	0.23
		MOKR1@29	469	3095	7	846	55	0.066	6.5	0.001059	1.0	3	0.001011	2.7	20.42	0.55	0.001025	1.2	20.72	0.25
		MOKR1@30	688	4284	6	802	55	0.062	7.1	0.000922	1.2	3	0.000878	2.9	17.74	0.51	0.000893	1.4	18.03	0.25
		MOKR1@31	683	4946	7	2982	95	0.056	7.6	0.001030	1.0	1	0.001017	1.6	20.54	0.33	0.001015	1.1	20.51	0.23
		MOKR1@01	132	23439	178	573	9	0.324	2.3	0.000991	2.6	3	0.000924	2.5	18.68	0.46	0.000959	2.6	19.37	0.50
		MOKR1@02	167	21412	128	789	12	0.283	2.7	0.001001	2.6	3	0.000952	2.5	19.23	0.49	0.000970	2.6	19.60	0.51
		MOKR1@03	149	20039	134	694	12	0.307	2.7	0.001011	2.6	3	0.000955	2.6	19.29	0.49	0.000977	2.6	19.73	0.52
		MOKR1@04	162	15315	95	570	12	0.296	2.6	0.001007	2.7	5	0.000943	2.6	19.05	0.50	0.000960	2.7	19.40	0.51
		MOKR1@05	182	11017	61	391	12	0.299	2.6	0.000978	2.6	7	0.000882	2.6	17.81	0.47	0.000913	2.6	18.45	0.48
	В	MOKR1@06	239	10746	45	355	12	0.242	2.6	0.000993	2.6	6	0.000885	2.6	17.88	0.47	0.000932	2.6	18.83	0.48
		MOKR1@13	127	16222	128	541	10	0.343	2.3	0.001014	2.6	5	0.000942	2.5	19.03	0.47	0.000967	2.6	19.53	0.50
		MOKR1@14	363	17133	47	608	12	0.200	2.4	0.000949	2.6	4	0.000889	2.5	17.95	0.45	0.000908	2.6	18.35	0.47
		MOKR1@15	446	16751	38	468	11	0.191	2.5	0.000948	2.6	4	0.000869	2.5	17.57	0.45	0.000906	2.6	18.30	0.47
		MOKR1@16	517	16572	32	462	12	0.190	2.6	0.000943	2.6	5	0.000864	2.6	17.46	0.45	0.000899	2.6	18.16	0.47
		MOKR1@17	141	16023	113	717	13	0.323	2.6	0.001031	2.6	4	0.000975	2.6	19.70	0.50	0.000986	2.6	19.92	0.52
		MOKR1@18	303	8214	27	380	18	0.303	3.2	0.000949	2.7	10	0.000859	3.0	17.35	0.53	0.000851	2.7	17.19	0.46
		MOKR1@19	263	4051	15	/	0	0.072	7.2	0.001023	1.1	2	0.001023	/	20.67	/	0.001002	1.1	20.24	0.23
г		r																		
		SAND1@01	259	3167	12	125	17	0.337	3.8	0.001114	4.0	21	0.000770	5.9	15.56	0.92	0.000877	4.1	17.72	0.73
		SAND1@02	252	3570	14	175	21	0.430	3.9	0.001104	3.1	24	0.000860	5.2	17.38	0.90	0.000843	3.3	17.03	0.56
		SAND1@04	323	5540	17	184	19	0.441	4.0	0.001150	2.6	17	0.000908	4.4	18.35	0.80	0.000958	2.7	19.34	0.51
		SAND1@05	580	5757	10	203	19	0.331	3.8	0.001106	2.8	15	0.000896	4.2	18.10	0.76	0.000938	2.9	18.96	0.54
		SAND1@06	601	5846	10	216	20	0.328	4.0	0.001123	2.7	15	0.000923	4.2	18.64	0.77	0.000959	2.8	19.38	0.54

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	А	SAND1@07	272	5768	21	212	12	0.274	2.6	0.001006	2.6	12	0.000829	3.1	16.74	0.52	0.000883	2.6	17.85	0.47
		SAND1@08	251	6655	27	332	15	0.277	2.9	0.000972	2.6	10	0.000859	2.9	17.35	0.50	0.000879	2.6	17.76	0.46
		SAND1@21	181	7714	43	2354	55	0.087	8.6	0.001049	1.3	1	0.001032	1.6	20.85	0.33	0.001039	1.3	20.99	0.28
		SAND1@22	285	6564	23	1186	55	0.096	10.8	0.001045	1.4	1	0.001011	2.3	20.43	0.46	0.001030	1.4	20.80	0.30
		SAND1@24	289	6472	22	1758	67	0.098	10.4	0.001054	1.2	2	0.001031	1.9	20.82	0.39	0.001036	1.2	20.93	0.26
		SAND1@25	302	7743	26	2074	67	0.107	10.3	0.001107	1.1	1	0.001086	1.6	21.94	0.36	0.001090	1.1	22.03	0.25
		SAND1@26	302	7711	26	1385	55	0.140	8.6	0.001117	1.4	3	0.001086	2.1	21.94	0.45	0.001089	1.4	22.01	0.32
		SAND1@28	468	728	2	513	95	0.066	8.6	0.001116	1.4	10	0.001032	7.3	20.85	1.51	0.001004	3.4	20.28	0.68
		SAND1@09	483	2027	4	137	14	0.176	2.2	0.001145	4.2	28	0.000822	4.9	16.61	0.81	0.000820	4.4	16.56	0.72
		SAND1@10	646	2420	4	109	14	0.176	2.7	0.001136	3.3	26	0.000732	5.5	14.80	0.81	0.000842	3.5	17.01	0.60
		SAND1@12	729	3802	5	203	16	0.150	2.8	0.001027	2.6	16	0.000831	3.8	16.79	0.63	0.000858	2.7	17.34	0.47
	В	SAND1@13	628	2842	5	170	14	0.136	2.3	0.001072	3.0	19	0.000839	3.9	16.95	0.67	0.000873	3.0	17.63	0.54
		SAND1@14	966	3518	4	124	16	0.194	3.1	0.001118	2.6	23	0.000771	5.2	15.57	0.81	0.000862	2.8	17.41	0.48
		SAND1@18	278	1247	4	67	14	0.309	2.9	0.001372	5.0	43	0.000578	8.4	11.67	0.97	0.000783	5.5	15.81	0.88
		SAND1@19	277	811	3	70	16	0.321	3.0	0.001620	5.1	55	0.000731	9.2	14.77	1.36	0.000725	6.5	14.66	0.96
		SAND1@11	659	2325	4	92	16	0.217	3.1	0.001572	8.4	35	0.000909	8.5	18.36	1.56	0.001021	8.6	20.62	1.78
		SAND1@15	189	964	5	49	11	0.307	2.4	0.001476	6.1	49	0.000322	8.3	6.51	0.54	0.000751	6.7	15.17	1.01
		SAND1@16	228	601	3	59	15	0.307	2.8	0.001752	6.7	62	0.000612	10.1	12.36	1.25	0.000664	8.7	13.41	1.17
		SAND1@17	202	401	2	46	15	0.312	2.9	0.002061	8.4	73	0.000324	12.4	6.56	0.81	0.000559	13.0	11.30	1.47
		SAND1@20	233	376	2	54	17	0.305	3.0	0.002238	7.9	74	0.000741	12.4	14.98	1.86	0.000578	13.8	11.68	1.61
		SAND1@29	493	448	1	112	67	0.056	11.1	0.001114	2.4	9	0.000729	23.3	14.72	3.43	0.001014	6.8	20.49	1.39
		SAND1@30	640	398	1	186	95	0.060	11.3	0.001180	3.8	14	0.000935	20.0	18.88	3.78	0.001019	9.3	20.59	1.91
		SAND1@31	636	404	1	95	67	0.061	10.6	0.001085	3.4	21	0.001505	38.9	30.39	11.80	0.000856	10.2	17.30	1.76
		SAND1@23	299	5895	20	/	0	0.112	10.5	0.000878	1.2	3	0.000878	/	17.73	/	0.000855	1.2	17.27	0.21
		SAND1@27	284	679	2	/	0	0.069	7.7	0.001130	1.0	9	0.001130	/	22.84	/	0.001027	2.8	20.74	0.58
		SAND1@32	573	501	1	33	96	0.017	17.8	0.000118	15.8	89	/	/	-0.43	-0.49	0.000013	251	0.26	0.66
		SAND1@33	919	304	0	/	0	0.035	18.9	0.000222	13.7	184	0.000222	/	4.49	/	/	-76	-3.76	2.86
		SAND1@35	1160	691	1	/	0	0.057	12.0	0.001323	2.2	8	0.001323	/	26.73	/	0.001215	5.7	24.54	1.39
		SAND1@36	935	512	1	/	0	0.067	11.3	0.001293	1.9	20	0.001293	/	26.11	/	0.001037	8.8	20.95	1.84
r																				
		REIS1@27	166	541	3	188	25	0.088	4.1	0.000926	2.32	13	0.000762	5.7	15.39	0.88	0.000806	2.7	16.28	0.44

	REIS1@28	288	1516	5	601	30	0.077	3.8	0.000836	2.25	6	0.000783	2.8	15.81	0.45	0.000788	2.3	15.93	0.37
	REIS1@29	185	697	4	530	42	0.093	4.6	0.000853	2.24	11	0.000791	3.7	15.99	0.59	0.000760	2.5	15.36	0.39
	REIS1@31	141	763	5	226	42	0.121	3.8	0.000977	2.60	20	0.000810	7.6	16.37	1.24	0.000779	4.2	15.74	0.66
	REIS1@32	306	2964	10	260	26	0.059	3.6	0.000893	2.48	15	0.000760	4.4	15.36	0.68	0.000759	2.8	15.33	0.42
	REIS1@33	762	737	1	874	24	0.050	2.7	0.000877	2.56	2	0.000839	2.7	16.94	0.45	0.000863	2.6	17.44	0.45
А	REIS1@35	195	618	3	290	32	0.083	4.3	0.000966	2.95	10	0.000865	5.2	17.48	0.90	0.000865	3.2	17.48	0.56
	REIS1@36	153	668	4	222	27	0.125	4.0	0.000963	2.87	18	0.000796	5.3	16.08	0.86	0.000794	3.2	16.05	0.52
	REIS1@23	236	324	1	326	47	0.053	5.0	0.000821	2.56	8	0.000771	6.7	15.57	1.04	0.000756	3.8	15.27	0.58
	REIS1@17	437	738	2	515	33	0.055	2.9	0.000903	2.26	7	0.000852	3.4	17.21	0.59	0.000842	2.7	17.01	0.45
	REIS1@19	384	454	1	318	33	0.062	3.2	0.000932	2.69	15	0.000819	4.7	16.54	0.78	0.000793	3.8	16.03	0.61
	REIS1@20	353	562	2	1500	67	0.062	3.3	0.000894	2.24	11	0.000870	2.8	17.59	0.49	0.000798	2.9	16.13	0.46
	REIS1@21	288	433	2	336	36	0.060	3.4	0.000981	2.54	10	0.000868	4.7	17.54	0.82	0.000881	3.6	17.81	0.63
	REIS1@18	328	486	1	467	42	0.061	3.3	0.000802	2.96	18	0.000736	4.4	14.87	0.66	0.000657	4.1	13.27	0.55
	REIS1@24	218	398	2	689	67	0.064	4.9	0.000791	3.13	14	0.000747	4.8	15.08	0.72	0.000679	4.1	13.71	0.56
В	REIS1@25	189	225	1	321	55	0.061	5.0	0.000851	3.74	17	0.000748	7.4	15.12	1.11	0.000705	6.1	14.25	0.87
	REIS1@30	297	441	1	778	47	0.083	5.2	0.000749	3.54	10	0.000712	4.1	14.38	0.59	0.000676	4.6	13.66	0.63
	REIS1@34	560	505	1	437	47	0.044	3.3	0.000773	3.93	14	0.000738	6.0	14.90	0.89	0.000666	6.2	13.45	0.84
	REIS1@22	881	386	0	229	32	0.051	2.3	0.000979	2.77	25	0.000814	5.8	16.45	0.95	0.000736	34.6	14.88	5.15
	REIS1@26	201	197	1	199	47	0.075	4.5	0.000867	3.41	41	0.000781	10.7	15.79	1.69	0.000508	11.6	10.26	1.19

Sample domain	ID Nº	Figure	Table	Zoning of the grains	Weighted mean domain 208 Pb/ 232 Th ages (Ma, ± 1 σ)	MSWD	Number of analyses	Spot ²⁰⁸ Pb/ ²³² Th age range of entire grain (Ma, $\pm 1\sigma$)	Reference
Western Tauern									
INNB1	1	3a	3	Regular	-	_	_	11.5 ± 0.2 - 10.4 ± 0.2	this study
ZEI1 - A	2	3b	3	Regular	10.0 ± 0.2	1.8	20	10.8 ± 0.3 - 7.2 ± 0.2	this study
SCHR1 - A					20.9 ± 0.6	1.7	6		
SCHR1 - B	3	3c	4	Regular	20.3 ± 0.2	0.98	16	$21.9 \pm 0.5 \text{ - } 19.3 \pm 0.5$	this study
SCHR1 - C					19.7 ± 0.4	1.00	6		
MAYR4	4	3d	3	Regular	_	_	_	$11.8 \pm 0.2 \text{ - } 8.9 \pm 0.2$	this study
PFIT1 - A	5	30	4	Databu aara	17.3 ± 0.3	1.2	9	178 + 04 120 + 02	this study
PFIT1 - B	5	36	4	Fatchy core	13.2 ± 0.3	0.38	5	$17.8 \pm 0.4 - 12.9 \pm 0.3$	uns study
BURG2	6	3f	3	Regular	_	_	_	$17.1 \pm 0.4 - 12.1 \pm 0.3$	this study
PLAN1 - A	7	3g	3	Patchy core	11.9 ± 0.2	2.2	37	$12.6 \pm 0.3 \text{ - } 7.8 \pm 0.2$	this study
Central Tauern	Window								
SCHEI1 - A					18.3 ± 1.1	2.0	4		
SCHEI1 - B	8	4a	3	Regular	17.4 ± 0.4	1.5	5	$18.9 \pm 0.5 \text{ - } 15.9 \pm 0.4$	this study
SCHEI1 - C					16.6 ± 0.2	1.9	23		
HOPF2 - B	0	4h	4	Dogular	12.2 ± 0.4	2.6	8	$12.7 \pm 0.4 \pm 11.0 \pm 0.2$	this study
HOPF2 - C	9	40	4	Regular	12.2 ± 0.5	2.9	6	$15.7 \pm 0.4 - 11.0 \pm 0.5$	this study
GART1 - A	10	4c	3	Regular	16.3 ± 0.2	0.69	10	16.9 ± 0.3 - 14.5 ± 0.4	this study
NOWA3 - B	11	44	3	Dogular	15.8 ± 0.5	0.27	5	170 ± 02 138 ± 08	this study
NOWA3 - C	11	40	3	Regulai	14.9 ± 1.1	2.4	5	$17.0 \pm 0.2 - 15.0 \pm 0.0$	uns study
GART3 - B	12	4e	3	Regular	15.0 ± 0.5	2.3	11	$16.1 \pm 0.4 \text{ - } 12.0 \pm 0.4$	this study
STEI2	13	4f	3	Regular / Patchy tail	17.2 ± 0.2	0.24	20	$17.5 \pm 0.4 - 16.8 \pm 0.4$	this study
KNOR1 - A					10.8 ± 0.3	1.02	5		
KNOR1 - B	14	4g	4	Regular	10.6 ± 0.3	1.6	8	$11.6 \pm 0.4 \text{ - } 10.8 \pm 0.3$	this study
KNOR1 - C					10.4 ± 0.2	1.4	8		

Table 4. Summary of weighted mean ages of monazite growth domains and spot age ranges of each grain from the TW.

Eastern Tauern Window													
KAIS6 - A					21.2 ± 0.5	0.64	6						
KAIS6 - B KAIS6 - C	15	50	4	Patchy border	20.9 ± 0.2	0.53	24	$22.1 \pm 0.6 = 17.6 \pm 0.6$	this study				
KAIS6 - C	15	Ja	4		20.6 ± 0.5	0.34	7	$22.1 \pm 0.0 = 17.0 \pm 0.0$	uns study				
KAIS6 - D					18.8 ± 0.5	1.5	10						
SALZ18-A	16a	5b	4	Regular	18.3 ± 0.4	2.6	14	$19.5 \pm 0.5 \text{ - } 15.8 \pm 0.4$	this study				
					18.1 ± 0.4	0.51	4						
ТЗ	16h			Regular	17.2 ± 0.5	3.4	10		Grosset al 2015				
15	100		-		16.0 ± 0.3	0.51	8	$10.5 \pm 0.4 - 14.0 \pm 0.4$	Onos et ut., 2015				
					15.5 ± 0.2	0.74	24						
LOHN4 - A	17	50	4	Patchy core	21.1 ± 0.2	1.4	50	220 ± 0.6 173 ± 0.6	this study				
LOHN4 - B	17	50	4	Fatchy core	18.4 ± 0.6	1.3	7	$22.9 \pm 0.0 = 17.3 \pm 0.0$	uns study				
ORT1	18	5d	3	Regular	18.4 ± 0.3	1.07	13	19.0 ± 0.6 - 17.0 ± 0.7	this study				
EUKL2	19a	5e	4	Regular	21.7 ± 0.4	0.56	7	$22.3 \pm 0.5 \text{ - } 21.2 \pm 0.5$	this study				
<i>T2</i>	19b		-	Patchy	15.1 ± 0.5	0.26	4	15.4 ± 0.4 - 15.0 ± 0.7	Gnos et al., 2015				
HOAR1-A	20	5f	3	Patchy	20.4 ± 0.2	0.80	6	$21.2 \pm 0.7 = 19.0 \pm 0.9$	this study				
HOAR1-B	20	51	5	I ateriy	19.9 ± 0.3	0.95	25	$21.2 \pm 0.7 = 17.0 \pm 0.7$	uns study				
				Ragular	19.0 ± 0.5	0.51	5		Gross et al. 2015				
T1	21		_		17.6 ± 0.6	1.6	8	$102 \pm 05 = 1/3 \pm 05$					
11	21		-	Regular	16.3 ± 0.6	3.0	12	$19.2 \pm 0.3 - 14.3 \pm 0.3$	Onos et ut., 2015				
					15.0 ± 0.5	1.7	8						
<i>T4</i>	22		-	Patchy	15.6 ± 0.7	9.1	21	$18.3 \pm 1.1 - 13.1 \pm 0.8$	Gnos et al., 2015				
MOKR1 - B	23	5g	3	Regular	18.8 ± 0.5	2.9	12	22.6 ± 0.4 - 14.4 ± 0.2	this study				
SAND1 - B	24	5h	3	Regular	17.0 ± 0.8	1.8	7	$22.0 \pm 0.3 \text{ - } 14.7 \pm 1.0$	this study				
REIS1 - A	25	51	3	Regular	16.2 ± 0.5	2.9	13	$178 \pm 0.6 = 135 \pm 0.8$	this study				
REIS1 - B	45	51	5	Kegulai	13.6 ± 0.6	0.25	5	$17.0 \pm 0.0 - 13.3 \pm 0.0$	uns study				