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Methods

U–Pb zircon petrochronology was performed at the University of California, Santa Barbara LASS lab (http://sites.google.com/site/icpgeolucsb/) using a Nu Plasma HR MC-ICPMS, a Nu AttoM SC-ICPMS (Nu Instruments Ltd., Wrexham, UK) and an Analyte 193 excimer ArF laser-ablation system equipped with a HeLex sample cell (Photon Machines, San Diego, USA). The analytical setup is described in Table 1. The ablated aerosol is carried by He from the sample cell to a mixing bulb in which the sample + He is mixed with Ar to stabilize the aerosol input to the plasma. The He-Araerosol is immediately split upon exiting the mixing bulb, with approximately half the ablation stream directed to each ICPMS. Laser energy is set to 4 mJ, which, once transmitted into the sample chamber, equates to ~0.1 μ m/pulse; repetition rate is set to 4 Hz; single-ablation duration was 20–25 seconds; and spot diameters ranged from 12-14 μ m with depths of ~8 μ m.

U–Pb dates were obtained with the Nu Plasma, equipped with four low-mass side electron multipliers for simultaneous measurement of ²⁰⁸Pb, ²⁰⁷Pb, ²⁰⁶Pb and ²⁰⁴Pb; ²³⁸U and ²³²Th were measured on Faraday cups equipped with 1011-ohm resistors. The Nu AttoM was used in "E-Scan" mode to measure REE and Hf concentrations. Because standard analyses are matrix-matched (see below), internal standardization was unnecessary. Sample analyses were preceded by a 10-second baseline measurement, and unknown analyses were corrected with the 91500 zircon standard (Wiedenbeck et al. 1995) every 7 measurements (~5 min.). For quality control, the zircon reference material GJ1 (601 Ma, Jackson et al., 2004) was run after each 91500 analysis, and yielded a 206 Pb/ 238 U age of 609.8 ± 2.5 Ma (n = 34; MSWD = 1.5; in-run error). The Plešovice reference material (Slama et al., 2008) was also analyzed throughout the analytical session and yielded a concordia age of 337.6 ± 0.9 Ma (n = 27; MSWD = 0.76; in-run error). Post-data processing was performed using Iolite (Paton et al., 2010), and concordia plots were produced with Isoplot (Ludwig, 2003).

Supplementary Figure DR1 Probability Density Function of ²³⁸U/²⁰⁶Pb ages (²⁰⁷Pb-corrected) from Leech et al. (2005) and St-Onge et al. (in press). Displayed ages represent Concordia intercept ages of subpopulations as provided by the original authors; age significance is also as proposed by the original authors.

Zircon geochronology data sets of Leech et al. (2005) and St-Onge et al. (in press) do not provide sufficient information to resolve the timing of peak (UHP) metamorphism (cf. Fig. 3).

There are two challenges with the Leech et al. (2005) data set: 1) There is no petrologic evidence to associate zircon growth with metamorphic events. This is because the analyses were not in situ and information about inclusions within zircon grain separates was not presented. 2) The data are not as statistically meaningful as those authors suggest. For instance, the mean square weighted deviates (MSWD) statistic is provided, but this statistic only begins to provide meaningful resolution of an age population when the number of analyses is at least 5 (Wendt and Carl, 1991). The resolution for discerning multiple age populations increases as the number of analyses increases. All of the interpreted ages for HP/UHP events by Leech et al. (2005) are based on a small number of analyses (n=5,3 respectively).

St-Onge et al. (in press) provide petrologic information defining Tso Morari eclogitic assemblages in relation to dated zircon. These authors analyzed spots from zircon included in garnet cores, which yielded the interpreted prograde age; and matrix zircon spots, which yielded the interpreted peak (UHP) age. The matrix zircons are in association with phengite, rutile, barroisite and omphacite (one of the analyzed 'matrix' zircons is included in omphacite). The dated matrix zircons have similar Th/U ratios, morphology, and zonation patterns to an undated zircon included in UHP garnet, and are thus interpreted by St-Onge et al. to have crystallized at UHP conditions.

St-Onge et al. (in press) did not resolve the second challenge of an insufficient number of analyses. St-Onge et al. (in press) analyzed two zircons included in garnet cores (prograde, eclogitic) and only four zircons interpreted to crystallize at UHP conditions. Three of the four UHP age results are highly discordant, such that the interpreted UHP U-Pb intercept age is dominantly determined by projection through just one nearly concordant zircon analysis (see their Figure 17).





Supplementary Figure DR2 A . Representative image of CM71710-4 petrographic thin section. Boxes represent area of analyses denoted with the number corresponding to Figure A3 and Table A1.

In the following sections of Figure A2 representative transmitted, cross polarized and reflected light images of the analyzed zircon. The images demonstrate the major zircon settings: 1) Zircons included in UHP garnet. 2) Zircons included in omphacite. 3) Zircons in the matrix. Example of garnet structures can be found in A3-B and A3-C.





Supplementary Figure DR2. Illustration showing the garnet characteristics in both samples. Detailed descriptions of UHP Tso Morari garnets can be found in O'brien, 2006 and Konrad-Schmolke et al., 2008. B) Atoll garnet structure, "Replaced Prograde Garnet" was previous Ca-rich garnet that has been consumed and replaced by other HP-UHP minerals. This zone is also referred to as the core of the atoll garnet. "Prograde Garnet", is the Ca-rich remnants that have survived consumption at HP and UHP metamorphism. "UHP Garnet" is the Mg-rich overgrowth in which coesite is typically found in UHP eclogites indicating growth at UHP conditions. C) Garnet with Ca-rich high inclusion idioblastic core and Mg-rich low inclusion rim. "Prograde Garnet" is the idioblastic Ca-rich core. "UHP Garnet" is the Mg-rich rim.

Supplementary Figure DR2 (Spot 3)

Zircon in UHP garnet



Figure DR2 (Spot 3): D is a TL image of the sample; E is an annotated version of D; F is XPL image; G is a reflected light image. grt = garnet; omp= omphacite; Spot signals where zircon was shot.

Supplementary Figure DR2 (Spot 26)

Zircon in UHP garnet



Figure DR2 (Spot 26) H is a TL image of the sample; I is an annotated version of H.; J is XPL image; K is a reflected light image; grt = garnet; omp= omphacite; Spot signals where zircon was shot.

Supplementary Figure DR2 (Spot 21)

Zircon in omphacite



Figure DR2 (Spot 21), L is a TL image of the sample; M is an annotated version of L; N is XPL image; M is a reflected light image; grt = garnet; omp= omphacite; rut = rutile. Spot signals where zircon was shot.

Supplementary Figure DR2 (Spot 27)

Zircon in omphacite



Figure DR2 (Spot 27), P is a TL image of the sample; Q is an annotated version of P; R is XPL image; S is a reflected light image; grt = garnet; omp= omphacite; sym = symplectite rut = rutile. Spot signals where zircon was shot.

Supplementary Figure DR2 (Spot 8)

Zircon in matrix



Figure DR2 (Spot 8), T is a TL image of the sample; U is an annotated version of T; V is XPL image; W is a reflected light image. amp = amphibole; omp= omphacite; sym = symplectite rut = rutile. Spot signals where zircon was shot.

Supplementary Figure DR2 (Spot 24)

Zircon in the matrix



Figure DR2 (Spot 24), X is a TL image of the sample; Y is an annotated version of X; Z is XPL image; AA is a reflected light image; grt = garnet; omp= omphacite; sym = symplectite; rut = rutile. Spot signals where zircon was shot.

Supplementary Figure DR3 Cathodoluminescence images of *in situ* zircon grains from CM71710-4 and DD71710-2b eclogites. Images show zoning characteristics of analysed and representative zircons. Cathodluminescense of zircon can reveal the internal structure of the mineral and distinguish between homegenous and heterogenous crystallization. The majority of the images exhibit irregular patchy zoning similar to "auroral lights" zoning (Corfu et al., 2003) indicative of a high pressure event. Images A-B of A3 are of analyzed spots which generally show oscillatory zoning with possibility of recrystallization indicative of brighter illumination regions in the grain. Images with defined cores can be interpreted to have older and younger generations of growth. Unclear zoning of some images may result from unpolished zircon surface of *in situ* grains.



Supplementary Figure DR3 - Cathodoluminescense Images in CM71710-4 A) CL image of zircon shot in analysis 16 = 47.8 ± 3.4 Ma . Image shows possible recrystallization in brighter areas outside of spot diameter. Zoning is generally oscillatory. B) CL image of zircon shot in analyses 31a-c. Fourth image analysis in the center of the image was not within detection limits of the rest of the analyses. "Analysis a" has a 207-Pb-corrected age of 44.0 ± 4.4 Ma; "Analysis b" = 43.6 ± 3.0 Ma; "Analysis c" 53.3 ± 5.0 Ma. Zoning appears to be heterogeneously patchy. C) CL image of zircon cluster included in UHP garnet rim. Zoning is irregular and patchy . D)CL image of zircon grain included in UHP garnet. Zoning appears heterogeneous with a distinct core and metamorphic rim.



Supplementary Figure DR3 continued - Cathodoluminescense Images in DD71710-2b. E) CL image of zircon cluster included in UHP garnet. Zoning is irregular patchy. Lone zircon appears to have a distinct core. F)CL image of zircon in the matrix with irregular and patchy zoning. G) CL image of zircon in matrix near symplectite. Zoning is irregularly patchy with possible metamictization. H) CL image of zircon in the matrix near symplectite. Zoning is irregularly patchy with possible metamictization.







Supplementary Figure DR3 continued - Cathodoluminescense Images in DD71710-2b. J) CL of a zircon in the matrix near garnet/ompachite grain boundary with irregular patchy zoning. K) CL of zircon near a rutile grain in matrix. Zoning is generally patchy besides the lower end of the grain which exhibits higher contrast. L) CL of zircon in the matrix. The grain exhibits a core and a possible zone of recrystallization, indicative of the higher contrast region at the top of the grain.







Supplementary Figure DR3 Cathodoluminescense Images in CM71710-4 (M-O) and DD71710-2b (P). N) CL image of zircon cluster in the matrix with defined areas of metamorphic rim growth indicative of the darker contrast. O) CL image of zircon cluster with irregular patchy zoning near garnet grain boundary. P) CL image of zircon included in omphacite with indistinct patchy zoning.



CM71710-4 MX (zircons in the matrix)









80

238 206 U/ Pb 120

160

0.2

0.0

1200

40

400

0



22 20 G 18 16 14 Frequency 12 10 8 6 4 2 0 AMP MX OI **Textural Setting**

DD71710-2B analyses settings with ages < 45 Ma



Supplementary Figure DR4 continued. Age vs. Petrologic Setting. F) Petrologic settings of analysed zircons from DD71710-2b with ages > 45 Ma. UHP garnet = zircon included in UHP garnet; OI = zircon included in omphacite; MX = matrix zircon. G) Petrologic settings of analysed zircons from DD71710-2b with ages < 45 Ma. AMP = zircon included in amphibole. H) Petrologic settings of analysed zircons from CM71710-4 with ages < 45 Ma I) Petrologic settings of analysed zircons from CM71710-4 with ages > 45 Ma.





Supplementary Figure DR5



Supplementary Figure DR5. A. Color compositional X-ray maps of garnets in sample CM71710-4 reveal a strong zonation across a sharp boundary. The garnet composition is Ca-rich/Mg-poor on the core side of this boundary, while the rim side is Mg-rich/Ca-poor. B). Backscattered image of garnets from CM71710-4. The red square surrounds zircon analysis 9 (see Supplementary Table DR1), which yields 207 Pb-corrected U/Pb age of 44.4±1.8 Ma. Profiles are marked in yellow. zzC) Masked Ca-X-ray map shown in A. Garnet I shows a distinct growth history with the calcium composition decreasing and subsequently increasing from core to rim. Zircon analysis 9 was taken in rim of the garnet with lowest calcium composition. In Garnet II, the sharp boundary signaling the strong difference in calcium composition is shown. D) Compositional zoning in these garnets is given with three profiles. Profile 1 shows a gradual increase in Ca composition and decrease in Mg composition from rim to core. Profile 2 shows a sharp decrease of Ca from core to rim. The Mg composition increases strongly coincidently with the decrease of Ca composition. Profile 3 shows a similar pattern to Profile 2. Profi-les 2 and 3 agree with data and observations from Tso Morari garnet analyzed in Konrad-Schmolke et al., 2008.



	Zircon	Analysis Spot	Texture	Ele	ments (ppi	n)			Isotopi	e Ratios			Appare	nt Age	
				U	Th	Pb	232Th/238U	²³⁸ U/ ²⁰⁶ Pb	$\pm 2\sigma \; error$	²⁰⁷ Pb/ ²⁰⁶ Pb	$\pm 2\sigma \ error$	²⁰⁶ Pb/ ²³⁸ U ^a	$\pm 2\sigma \ error$	²⁰⁷ Pb/ ²³⁵ U	$\pm 2\sigma \ error$
CM71710-4	1		GR	46	2.0	1.8	0.043	117.8	7.29	0.240	0.020	41.2	2.1	250	24.0
	2		OI	28	0.0	0.3	0.000	151	11.5	0.145	0.018	37.3	2.3	119	42.0
	3		GR	79	0.4	0.5	0.005	126.4	7.0	0.081	0.007	48.6	1	86	69.0
	4		MX	22	3.8	4.4	0.174	60	9.79	0.565	0.068	37.0	11.0	830.0	19.0
	5		MX	32	0.0	3.9	0.000	70	5.02	0.407	0.029	49.9	4.2	595.0	87.0
	6		MX	18	1.4	2.3	0.077	90.3	6.08	0.401	0.061	39.3	6	486	39.0
	7		MX	12	1.4	2.0	0.122	97.1	9.37	0.383	0.074	38.1	6.9	439	19.0
	8		MX	24	1.9	3.7	0.078	65.8	4.59	0.439	0.039	49.2	5.4	677	42.0
	9		GR	25	0.2	0.4	0.008	128.4	7.91	0.136	0.014	44.4	1.8	134	39.0
	10		OI	80	5.1	9.8	0.064	109	6.62	0.215	0.023	46.5	2	236	15.0
	11		AMP	57	n/a	7.1	n/a	105	6.60	0.245	0.020	45.7	2.3	294	6.4
	12		MX	94	8.9	19.8	0.095	107	7.17	0.339	0.033	38.0	3.0	372	15.0
	13		OI	78	14.4	21.7	0.184	86.3	7.06	0.368	0.040	44.2	4.7	465	5
	14		GR	47	1.0	7.0	0.021	87.2	8.50	0.283	0.028	51.7	5	378	42.0
	15		OI	82	5.8	30.4	0.070	74.6	7.65	0.387	0.036	49.1	5.9	565	100.0
	16		GR	35	n/a	0.5	n/a	119	9.16	0.137	0.028	47.8	3.4	140	34.0
	17		OI	29	2.0	6.0	0.069	83.3	8.70	0.318	0.036	50.7	5.8	426	47.0
	18		MX	63	18.4	14.0	0.293	89.3	9.84	0.385	0.041	41.2	5.5	488	11.0
	19		GR	45	4.9	15.1	0.109	74.5	5.97	0.438	0.032	43.6	4.5	602	43.0
	20		MX	54	6.2	8.2	0.114	94.1	7.43	0.264	0.030	49.5	4	330	33.0
	21		OI	29	0.2	2.9	0.007	95.1	6.62	0.252	0.029	50.0	3.5	322	45.0
	22		OI	62	8.0	9.2	0.129	99.5	8.13	0.272	0.031	46.2	3.9	325	71.0
	23		MX	48	4.7	11.3	0.099	87.1	6.03	0.370	0.030	43.6	3.6	480	60.0
	24		MX	144	2.3	4.1	0.016	124	7.23	0.123	0.013	46.7	2	131	54.0
	25		OI	80	1.4	15.7	0.018	92.1	6.43	0.347	0.026	43.3	3.1	431	29.0
	26		GR	27	1.1	19.6	0.041	45.2	5.22	0.606	0.048	41.6	9.8	1084	22.0
	27		OI	76	26.3	7.7	0.346	104	6.54	0.223	0.020	47.8	2.4	265	21.0
	28		GR	122	4.2	5.3	0.034	113	6.55	0.142	0.011	50.0	2	160	44.0
	29		MX	115	1.4	1.2	0.012	134	7.52	0.096	0.008	45.0	1.2	94.5	19.0
	30		OI	27	3.4	2.4	0.125	97.0	8.72	0.326	0.044	42.9	4.9	353	11.0
	31	а	GR	34	1.1	7.2	0.032	82.6	7.24	0.390	0.031	44.0	4.4	506	49
	31	b	GR	32	0.9	0.4	0.028	119	9.31	0.197	0.033	43.6	3	206	22.0
	31	с	GR	49	3.8	15.7	0.078	69.9	5.69	0.379	0.031	53.3	5.0	566	39.0
	32		OI	170	0.6	2.9	0.004	147	9.79	0.118	0.021	39.8	2.1	105	91.0
	33		GR	73	2.2	14.6	0.030	91.8	7.54	0.342	0.036	43.9	4.3	400	37.0
	34	а	GR	89	3.4	8.4	0.038	109.1	11.7	0.278	0.040	41.7	5	330	34.0
	34	b	GR	40	n/a	0.5	n/a	124	8.32	0.163	0.021	44.2	2.4	166	38.0
	35		MX	57	n/a	53.6	n/a	44.8	3.29	0.579	0.036	46.9	7.3	1036	44.0
	36		MX	49	3.4	12.6	0.069	96.0	7.04	0.385	0.043	38.3	4.2	453	73.0
	37		OI	24	n/a	11.7	n/a	66.7	10.3	0.465	0.046	45.4	9	684	37.0
	38		OI	91	n/a	33.4	n/a	78.2	5.84	0.403	0.028	45.2	3.9	535	49.0
	39		GR	279	5.7	8.3	0.020	135	7.17	0.105	0.009	44.0	.9	104	53.0
	40		OI	75	3.8	15.6	0.050	94.1	6.05	0.287	0.019	47.6	2.6	357	7.1
	41	а	OI	116	1.9	28.6	0.016	91.5	5.39	0.317	0.020	46.2	2	400	20.0
	41	b	OI	46	n/a	7.0	n/a	96.1	6.85	0.294	0.029	46.0	3.4	367	21.0
	42		OI	36	2.1	10.1	0.059	85.9	5.30	0.408	0.029	40.7	3.2	516	36.0
	43		OI	41	0.6	4.3	0.015	109	7.19	0.270	0.024	42.2	2.6	294	23.0

Supplementary Table DR1. Summary of LA-ICPMS analysis of U-Pb isotopes in zircon from eclogite CM71710-4 and DD71710-2b in the Tso Morari Gneiss Dome

Cont.

							Table	DR1 Cont.							
DD71710-2b	44		OI	74	4.8	3.2	0.065	112	7.54	0.246	0.022	42.2	2.5	269	27.0
	45		MX	20	n/a	5.1	n/a	48	3.14	0.543	0.036	46.1	6.7	955	38.0
	46		MX	22	0.4	8.5	0.018	38.5	2.62	0.633	0.036	38.1	8.5	1197	30.0
	47		MX	51	3.0	8.5	0.059	62.1	4.75	0.496	0.030	42.2	4.9	765	48.0
	48		MX	33	0.4	2.1	0.012	93.8	6.25	0.278	0.020	47.6	2.8	343	21.0
	49		01	25	1.5	1.0	0.000	98.4	5.67	0.287	0.021	44.0	2.3	345	10.0
	50		01	01	1.5	1.5	0.025	128.2	8.09	0.165	0.015	42.5	1.8	165	12.0
	52		01	33	0.7	2.6	0.048	95.0	6.12	0.034	0.003	42.9	3.0	411	20.0
	53		01	30	0.7	2.0	0.021	95.0	6.53	0.354	0.028	40.6	3.0	415	22.0
	54		OI	42	0.1	3.0	0.012	91	7.50	0.315	0.020	45.4	4.1	387	28.0
	55		OI	27	0.6	4.7	0.022	61	4.5	0.478	0.035	45.4	5.5	725	48.0
	56		GR	18	0.1	1.3	0.006	93	7.1	0.289	0.028	47.1	3.7	361	33.0
	57		OI	40	n/a	2.6	n/a	103	7.12	0.302	0.030	41.3	3.2	344	29.0
	58		MX	76	4.0	4.6	0.053	108.8	7.21	0.312	0.021	38.4	2.4	337	19.0
	59		OI	29	0.5	2.5	0.017	77.8	5.49	0.324	0.028	52.4	4.1	476	38.0
	60		MX	60	3.2	0.5	0.053	137.2	8.01	0.097	0.009	43.7	1.4	92	6.0
	61		MX	38	2.2	4.1	0.057	81.2	6.25	0.432	0.038	39.0	4.6	558.0	42.0
	62		MX	11	0.8	3.9	0.071	57.1	5.67	0.555	0.063	37.2	10.0	850	77.0
	63		MX	42	0.8	0.3	0.019	128.4	8.10	0.092	0.010	47.1	1.9	96	10.0
	64		MX	17	0.2	0.2	0.012	135.0	10.34	0.135	0.036	42.1	3.3	126	32.0
	65		OI	78	7.3	5.2	0.094	121	7.46	0.127	0.014	47.6	2.0	137	15.0
	66		OI	73	3.6	26.8	0.050	74.6	6.16	0.401	0.029	45.9	4.5	541	36.0
	67		OI	58	6.5	31.4	0.112	62.2	3.83	0.467	0.028	46.2	4.3	708	26.0
	68		MX	46	9.5	17.2	0.207	75.5	4.66	0.400	0.024	45.5	3.2	545	21.0
	69 70		01	30	0.7	4.5	0.020	96.0	/./4	0.225	0.023	51.2	3.8	287	27.0
	70		MY	110	0.0	24.8	0.185	49.5	4.60	0.334	0.036	43.5	20	930	27.0
	72		OI	119	5.1 n/a	10.7	0.020 n/a	71.2	/.10	0.271	0.022	45.0	2.0	628	27.0
	73		MX	34	n/a	81	n/a	85.3	5.99	0.331	0.035	40.0	3.6	414	27.0
	74		MX	103	51	2.5	0.049	142	8 34	0.101	0.013	42.1	1.5	98.0	13.0
	75		MX	54	17.2	16.2	0.321	84.6	5 49	0.326	0.023	48.0	3.1	425	24.0
	76		OI	65	4.1	9.7	0.063	102	8.71	0.302	0.040	41.8	4.4	342	49.0
	77		MX	52	0.6	39.7	0.012	50.8	3.62	0.522	0.031	47.3	5.8	898	36.0
	78		MX	23	n/a	14.2	n/a	63.3	6.09	0.473	0.043	44.5	6.9	740	64.0
	79		MX	125	18.4	76.3	0.148	59.1	4.44	0.482	0.031	46.4	5.2	764	48.0
	80		OI	114	10.2	21.8	0.089	101	7.50	0.281	0.023	44.2	3.1	335	31.0
	81		AMP	465	22.4	23.0	0.048	144	8.61	0.137	0.015	39.4	1.6	123	11.0
	82		OI	145	8.7	33.2	0.060	88.5	9.00	0.310	0.033	47.4	5.3	400	57.0
	83		OI	101	10.3	12.7	0.102	115	6.95	0.219	0.018	43.0	2.0	239	16.0
	84		OI	34	2.6	27.7	0.077	51.8	3.93	0.552	0.036	41.5	6.5	917	44.0
	85		OI	57	2.8	60.1	0.049	39.2	5.15	0.628	0.044	38.4	11	1180	110
	86		OI 110	109	6.5	12.7	0.060	108	7.58	0.232	0.028	44.8	3.1	261	35.0
	8/		AMP	/8	2.6	16.6	0.033	88.5	11.1	0.362	0.053	42.5	7.1	463	87.0
	80		MA OI	62	5./ n/o	24.1	0.044	97.2	5.99	0.279	0.020	45.9	2.4	542	150
	00		01	70	0.0	28.0	n/a	70.1	4 71	0.020	0.037	J0.1 40.1	13	585	31.0
	90	9	01	49	3.7	15.6	0.075	70.1	5.60	0.362	0.027	47.2	3.8	478	33.0
	91	h	OI	118	71	15.7	0.060	99.1	8.48	0.263	0.020	46.4	4.2	324	45.0
	92	0	MX	35	5.4	18.7	0.156	62.1	5.26	0.482	0.035	44.1	5.7	723	54.0
	93		MX	104	24.9	28.7	0.240	94.1	6.34	0.336	0.030	42.3	3.3	410	32.0
	94		OI	23	2.8	0.6	0.122	126	13.8	0.193	0.041	41.0	4.8	166	30.0
	95		OI	54	6.0	20.7	0.110	72.2	5.55	0.404	0.028	47.1	4.4	578	40.0
	96		OI	72	1.2	75.2	0.017	42.0	3.52	0.596	0.037	42.3	8.3	1089	50.0
	97		OI	55	6.1	20.7	0.112	74.5	4.92	0.394	0.026	46.8	3.7	550	28.0
	98		MX	71	1.1	35.6	0.016	66.8	5.02	0.471	0.033	42.5	4.9	672	45.0
	99		MX	77	4.6	16.8	0.060	103	6.54	0.326	0.025	39.5	2.6	366	20.0
	100		OI	155	8.5	10.7	0.055	117	8.17	0.142	0.018	48.1	2.7	160	20.0
	101		OI	40	0.1	38.9	0.002	44.2	4.16	0.579	0.040	43.4	9	1040	61.0
	102		OI	101	15.0	6.3	0.149	129	7.78	0.163	0.019	42.1	1.9	160	16.0
	103		OI	37	0.9	24.9	0.025	55.6	4.39	0.548	0.036	39.3	6.2	852	53.0

Note:Both samples were analyzed 09/01/2011 and 02/17/2012, for which the error in standard deviation is (26). Common Pb is corrected by projecting a line through all analyses to 207Pb/206Pb and 238U/206Pb on the Tera-WasseMXurg Concordia diagram (Figure 2). a Age corrected for 207 Pb. AMP (amphibole-zircon inclusion in amphibole grain), GR (zircon inclusion in UHP garnet), MX (zircon in the matrix near omphacite, rutile, titanite, amphibole other matrix minerals), OI (zircon inclusion in omphacite grains).

																																					Sample
3 1 3	41	41	40	39	38	37	36	35	34	34	33	32	31	31	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	Zircon
	Ь	а							9	а			c	9	а																						Analysis Spot
n/a	0.020	0.081	0.045	n/a	0.030	n/a	0.003	n/a	0.003	0.049	n/a	0.031	0.025	0.061	0.039	0.021	0.043	0.003	0.059	0.031	n/a	0.038	0.014	0.010	0.050	0.009	0.041	0.050	0.054	0.029	0.214	0.147	0.030	0.007	n/a	0.173	La
0.75	0.64	0.71	2.20	1.02	0.34	0.39	1.00	0.75	0.98	0.43	1.43	0.22	0.33	2.12	0.58	1.61	1.40	0.60	0.82	0.35	1.49	1.40	0.61	1.00	0.24	3.39	0.69	0.95	0.58	0.58	7.35	5.81	1.11	2.50	0.43	5.87	Ce
0.17	0.13	0.09	n/a	0.14	0.12	0.37	0.18	0.08	0.27	0.17	0.65	0.14	0.12	0.32	0.19	0.35	0.77	0.36	0.35	0.38	0.41	n/a	0.22	0.20	0.17	0.41	0.19	0.63	0.45	0.57	2.85	1.42	0.20	0.44	0.21	0.77	Pr
0.46	0.18	0.17	0.73	0.54	0.01	0.29	0.50	0.60	1.04	0.69	0.90	0.47	0.39	n/a	0.56	0.73	0.90	0.62	0.84	0.42	0.74	0.61	1.01	0.81	0.19	1.04	0.46	0.35	0.35	n/a	7.39	2.97	1.30	0.37	0.80	1.72	Nd
7.5	13	10	21	11	.6	4.8	5.0	6.9	16	5.7	13	4.1	4.5	4.1	6.4	10	19	6.9	4.1	4.9	4.1	13	9.4	4.7	1.6	17	10	7.0	6.4	8.6	42	5.5	6.5	10	12	22	Sm
18	42	34	57	35	7.9	13	20	24	35	16	53	12	21	14	27	24	57	16	13	12	24	42	26	16	6.2	22	18	17	20	23	42	13	14	46	25	36	Eu
29.8	56.9	55.9	108	49.7	15.3	20.0	42.0	43.3	63.6	34.6	92.9	20.1	46.9	25.3	51.6	40.5	82.3	31.1	22.1	20.0	42.9	75.5	37.6	49.2	14.3	84.4	27.3	20.8	33.6	56.7	62.2	20.1	51.1	68.5	48.4	94.2	Gd
27.9	49.8	50.5	77.0	43.3	8.23	24.7	40.0	54.2	59.2	27.4	68.6	19.5	52.5	28.9	48.6	43.7	75.7	47.9	18.4	22.3	27.3	66.9	41.6	44.2	15.1	135	30.4	33.2	40.7	52.7	50.3	19.6	40.5	36.7	41.8	109.7	ТЬ
26.0	35.4	42.4	52.5	43.9	10.0	20.6	56.2	70.8	43.8	29.3	54.1	18.4	37.6	39.8	60.7	37.3	62.0	70.1	11.6	24.4	34.7	64.8	34.6	64.3	16.4	237	54.1	27.9	49.2	86.2	47.4	23.3	58.6	32.4	38.4	146.2	Dy
32.0	33.3	35.9	35.3	44.3	10.5	13.3	65.5	89.3	45.6	32.1	45.0	17.7	34.1	49.8	69.8	37.3	64.3	116	19.2	31.4	29.8	68.1	41.5	117.6	14.0	374	82.6	26.8	59.4	91.2	41.8	21.2	90.2	24.9	36.2	173.4	Ho
30.8	38.9	37.7	34.2	50.4	15.8	25.4	82.9	107	61.1	88.6	54.4	24.1	28.4	60.1	92.2	49.8	97.7	229	30.9	33.4	34.5	70.7	47.9	242	15.4	710	111	37.4	79.2	121	47.7	29.0	240	42.8	43.2	275	Er
26.0	36.2	43.8	34.4	52.0	13.8	22.6	67.8	110	76.6	176	50.2	24.8	37.0	58.6	92.0	42.6	134	300	46.9	34.7	33.8	67.0	70.8	384	15.8	1226	130	41.4	76.8	134	69.2	26.8	352	53.6	38.1	335	Tm
39.8	44.0	44.3	38.0	59.2	21.9	24.2	68.1	158	172	304	47.3	28.3	30.3	61.9	108	48.3	173	379	81.9	38.9	38.0	80.4	65.6	731	16.6	2394	211	51.5	83.6	154	75.4	48.0	537	98.5	58.6	551	Yb
42.1	49.6	63.6	44.0	66.7	33.6	30.9	67.8	173	240	537	51.9	36.2	37.3	74.7	117	50.3	171	428	130	49.1	34.5	61.9	78.3	1099	26.5	2926	247	76.2	101	156	95.8	54.9	714	159	65.0	776	Lu

																																								DD71710-2b	Sample	
103	102	101	100	99	86	97	96	95	94	93	92	1 16	. 16	90	68	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65		Analysis	
0.018	0.039	0.023	0.034	0.033	0.060	0.027	0.000	0.037	0.041	0.049	0.024	b 0.058	a 0.014	0.060	n/a	0.009	0.090	n/a	n/a	n/a	0.004	0.006	0.025	0.033	0.050	0.025	0.027	0.047	0.029	0.040	0.016	0.013	0.051	0.247	0.021	0.037	0.011	n/a	0.004		La	
0.489	1.471	0.371	1.385	0.970	1.330	1.262	0.317	0.507	0.160	1.469	0.154	1.390	1.405	0.548	1.066	0.987	1.841	0.835	0.941	0.235	2.412	1.603	2.629	2.613	3.687	0.421	0.698	0.466	1.394	1.551	0.813	1.067	1.748	17.654	0.833	0.685	1.164	1.277	0.725		Ce	
0.187	0.304	0.094	0.127	0.445	0.419	0.337	0.259	0.172	0.150	0.472	0.277	n/a	0.337	0.223	0.343	0.205	0.262	0.135	0.106	0.310	n/a	0.105	0.144	0.637	0.734	0.226	0.180	0.186	0.211	0.234	0.112	n/a	0.145	2.800	0.159	0.315	n/a	0.766	0.075		Pr	
0.571	0.837	0.364	0.318	0.709	0.753	0.625	0.460	0.350	0.305	0.857	0.357	0.319	0.837	0.626	n/a	0.544	2.169	0.386	0.433	0.673	0.263	n/a	0.422	2.446	1.705	n/a	0.331	0.492	0.924	0.614	0.316	0.811	0.867	6.766	n/a	1.176	0.320	1.748	0.216		Nd	
6.01	4.37	6.50	6.40	7.61	4.22	3.86	2.05	2.35	3.04	6.88	1.05	4.82	7.88	4.07	1.55	8.91	8.24	5.44	6.40	4.81	14.5	5.62	9.92	10.7	14.8	4.27	3.63	2.45	6.50	11.4	11.0	7.30	9.43	9.68	7.52	9.70	5.92	7.25	7.40		Sm	
39.0	23.4	17.8	35.8	21.9	25.7	25.5	20.7	9.58	45.9	15.4	6.75	35.2	26.3	18.0	19.9	24.7	21.2	25.2	10.3	13.7	62.9	32.2	44.5	36.9	48.3	15.0	6.59	8.65	15.8	47.1	39.6	38.4	30.2	13.1	11.5	21.6	17.5	18.7	16.7		Eu	IABLE
54.9	32.9	30.8	53.1	22.6	30.5	32.9	23.5	22.2	68.3	24.0	14.3	39.4	38.0	29.8	29.4	34.2	37.6	38.4	24.8	23.7	73.4	54.3	88.6	46.9	80.2	36.1	11.0	25.6	27.6	67.8	51.7	51.5	43.9	18.8	26.5	29.5	18.6	28.7	22.3		Gd	DK2 cont.
62.6	41.0	39.6	66.9	34.8	30.2	36.8	27.9	25.1	76.9	26.1	18.1	42.9	38.9	40.9	39.6	50.7	37.3	52.2	28.6	26.7	80.5	60.2	101	63.5	112	43.3	20.3	29.3	36.8	81.5	59.6	46.4	56.3	49.5	34.6	43.7	29.8	45.0	35.1		ТЬ	
61.3	43.7	31.7	59.0	26.7	26.9	31.1	17.4	25.6	69.2	32.2	12.2	35.9	27.2	38.5	28.4	53.9	30.4	55.9	30.1	21.9	58.4	43.5	82.6	54.9	106	32.7	19.8	26.7	43.1	65.2	54.5	31.4	38.1	43.3	33.5	36.1	24.5	32.5	33.3		Dy	
69.6	51.7	37.7	54.6	22.1	20.7	35.2	22.2	23.6	50.6	37.6	16.6	21.6	22.3	31.2	27.3	56.2	22.7	61.3	33.4	25.2	58.3	41.4	88.5	70.1	170	35.3	18.8	25.6	60.7	42.8	47.8	37.4	41.1	56.1	36.3	42.8	28.1	36.2	38.4		Ho	
73.7	76.8	39.9	51.2	27.2	24.6	41.4	23.8	26.9	59.9	54.3	24.2	30.7	28.2	38.2	32.9	68.4	29.6	75.0	27.3	29.4	53.2	46.5	73.3	61.5	175	31.7	21.9	22.2	89.6	47.5	47.2	27.1	34.9	59.5	37.1	60.5	29.1	38.7	37.6		Er	
66.9	106	35.7	46.2	24.5	24.6	45.3	36.1	40.3	50.8	54.8	21.3	52.8	41.4	37.5	54.9	80.9	33.9	85.6	26.4	30.4	51.2	49.6	73.5	85.4	242	39.0	19.8	32.9	118	48.9	36.6	32.5	37.5	100	40.5	55.1	37.1	53.9	43.4		Tm	
69.1	125	41.8	48.4	26.0	25.4	60.1	32.4	48.5	56.5	116	40.6	44.8	41.1	47.5	54.4	116	21.3	90.2	33.3	33.5	42.2	51.1	61.0	78.7	323	33.5	17.6	28.5	171	54.6	48.9	29.4	33.6	127	39.3	78.3	35.2	55.9	39.9		Υь	
94.4	153	84.0	57.3	45.7	27.2	93.9	44.5	68.2	61.2	147	53.3	61.1	61.2	54.9	62.3	209	77.8	144	42.5	46.2	83.2	59.8	91.0	100	450	45.9	36.6	41.9	232	65.9	62.0	50.4	60.2	177	61.0	121	43.3	61.1	49.4		Lu	

Table DR3. Timing of Collision Calculation Table. The collision table uses a simplified equation modified from Leech et al., 2005 to predict timing of collision as a function of UHPM depth, age of UHPM, convergence rate and slap dip. It is an example of possible collision ages considering new realistic convergence rates and subduction geometries. 100 km is the assumed depth of UHPM. The convergence rates used are bracketed convergence rates using the fastest and slowest convergence rates between 52 Ma and 46 Ma from White and Lister (2012). The age of UHPM is the interpreted age reported in this study. The slab dip is the angle of the subducting plate with the horizontal. Values are first order approximations of 28° (Guillot et al., 2004), 35° medium value, and 41° (Leech et al., 2005). Slab dip is assumed to be constant for each value. The dip geometries from Leech et al., (2005) assumes the slab dip angle inscreases with depth; a realistic assumption that has a slab dip angle of 41° at UHP conditions. Initial subduction of the leading edge of the Indian Continental Margin ~51-47 Ma is under the assumption that UHP metamorphsim is a geologically brief event.

Timing of Collision = $\frac{\text{Depth of UHPM}}{(\text{Convergence Rate} \times \text{Sin(Slap Dip)})} + \text{Age of UHPM}$

Depth of UHPM	Convergence	Slab Dip	Collision Age	Collision Age
	Rate		(UHP at 46 Ma)	(UHP at 47 Ma)
100	69	28	49.1	50.1
100	69	35	48.5	49.5
100	69	41	48.2	49.2
100	150	28	47.4	48.4
100	150	35	47.2	48.2
100	150	41	47.0	48.0

White and Lister 2012: Convergence limits of 69mm/yr and 150mm/yr

Calculated collision ages provide minimum estimates for continental subduction timing, since the perserved UHP material may not represent the absolute leading edge of the subducting continent. The initiation of continental subduction corresponds to the timing of India-Asia collision under the assumption that the overriding plate was Asia (and not an island arc or microcontinent).

- Corfu, F., Ravna, E.J.K., Kullerud, K., A Late Ordovician U-Pb age for the Tromsø
 Nappe eclogites, Uppermost Allochthon of the Scandinavian Caledonides.
 Contrib. Mineral Petrol. 145, 502-513 (2003)Ludwig, K.R., User's Manual for
 Isoplot 3.00 a Geochronological Toolkit for Microsoft Excel (2003)
- Jackson, S. E., Pearson, N. J., Griffin, W. L., Belousova, E. A., The application of laser ablation-inductively coupled plasma-mass spectrometry to in situ U-Pb zircon geochronology. *Chemical Geology* 211, 47-69 (2004).
- Paton, C., Woodhead, J. D., Hellstrom, J. C., Hergt, J. M., Greig, A., Mass, R., Improved laser ablation U-Pb zircon geochronology through robust downhole fractionation correction. *Geoch. Geoph, Geosy.* 11, doi:10.1029/2009GC002618 (2010).
- Slama, J., Kosler, J., and Condon, D.J., Plesovice zircon–A new natural reference material for U-Pb and Hf isotopic microanalysis: *Chemical Geology*, v. 249, p, 1- 35 (2008)
- Wendt, I., Carl, C., The statistical distribution of the mean squared weighted deviation. *Chemical Geology*. Isotope Science Section 86, 275–285 (1991).
- Wiedenbeck, M., Allé, P., Corfu, F., Griffin, W. L., Meier, M., Oberli, F., Von Quadt, A.,
 Roddick, J. C., Spiegel, W., Three Natural Zircon Standards for U-Th-Pb, Lu-Hf,
 Trace Element and REE Analyses. *Geostandards Newsletter* 19, 1-23 (1995).

| Table DR4. S | elected electro | on microprobe | analyses of g | arnets in sam | ple CM71710

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Table DR4. Sc Formula 6/1. 6/2. 6/3. 6/4. 6/5. 6/4. 6/5. 6/7. 6/8. 6/10. 6/11. 6/12. 6/10. 6/11. 6/12. 6/13. 6/14. 6/15. 6/16. 6/17. 6/18. 6/19. 6/19. 6/11. 6/12. 6/13. 6/14. 6/15. 6/16. 6/17. 6/18. 6/19. 14/2. 14/2. 14/1. 14/12. 14/13. 14/14. 14/15. 14/21. 14/22. 14/22. 14/23. 14/24. 14/25. 14/26.	elected electro P2O5 0 0.0135 0.0136 0.0131 0.0026 0.015 0.0085 0.005 0.004 0.0264 0.0089 0.0123 0 0.0123 0 0.0264 0.0073 0.0073 0.0075 0.0075 0.0075 0.0075 0.0279 0.0215 0.0175 0.0076 0.0275 0.0058 0.0275 0.0058 0.0275 0.0058 0.0275 0.0058 0.013 0.0287 0.0201 0.00201 0.00156 0.0027 0.0263 0.0154 0.0033 0.0177 0.0365 0.0331	m microprobe SiO2 38.6628 38.756 38.6824 38.7695 38.5629 38.5051 38.6068 38.313 38.307 38.307 38.307 38.307 38.312 38.2268 38.012 38.2268 38.0372 38.0322 37.9382 38.0928 38.1341 38.2327 36.623 36.96 36.7208 37.1857 36.693 36.9412 36.927 36.7208 37.1857 36.8265 36.5799 37.007 37.462 37.485 36.7208 37.485 36.5799 37.007 37.425 37.4811 37.7811 37.6462 37.7811 37.7813 37.6462 37.485 37.485 37.485 37.485 37.485 37.6516 37.9707 37.6516 37.9707 37.6516 37.977 37.6516 36.823 36.823 36.823 36.823 36.823 36.823 37.6516 37.977 37.5652 37.4674 37.5652 37.4674 37.5652 37.4674 37.5652 37.4401 37.5852 37.4401 37.5859 37.6988	analyses of g TiO2 0.0047 0.0197 0.0479 0.0479 0.0479 0.0479 0.0479 0.0479 0.0479 0.0479 0.0479 0.0479 0.0479 0.0479 0.0479 0.0479 0.0479 0.0459 0.0927 0.0459 0.0997 0.1164 0.0993 0.1159 0.0997 0.1164 0.0995 0.1134 0.1059 0.1652 0.1529 0.1777 0.1656 0.0377 0.0371 0.0294 0.1775 0.1863 0.0274 0.1777 0.0658 0.057 0.0281 0.0358 0.0319 0.0272 0.0653 0.0424 0.0411 0.527 0.0643
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14/5.	0.001	2.971	0.008	1.955	0.001	0.229	1.122	0.035	1.72	0	8.041	4387.2	-35638.9	207	cm71710-4-A29b-1-27	3154.27	14.2945	368
14/6.	0.002	2.955	0.009	1.963	0.001	0.24	1.126	0.037	1.719	0.002	8.052	4387.7	-35640.8	207	cm71710-4-A29b-1-27	3154.6	14.305	369
14/7.	0.002	2.971	0.01	1.947	0.001	0.246	1.111	0.034	1.72	0.002	8.044	4388.2	-35642.8	207	cm71710-4-A29b-1-27	3154.94	14.3886	370
14/8.	0.001	2.977	0.009	1.953	0.001	0.244	1.107	0.034	1.708	0.002	8.037	4388.8	-35644.7	207	cm71710-4-A29b-1-27	3155.27	14.2482	371
14/9.	0.003	2.962	0.01	1.953	0.001	0.235	1.124	0.036	1.723	0.002	8.048	4389.3	-35646.7	207	cm71710-4-A29b-1-27	3155.61	14.3362	372
14/10.	0.001	2.957	0.011	1.959	0.001	0.235	1.124	0.035	1.727	0.002	8.051	4389.8	-35648.7	207	cm71710-4-A29b-1-27	3155.94	14.2579	373
14/11.	0.002	2.974	0.01	1.945	0	0.244	1.11	0.035	1.719	0.002	8.042	4390.4	-35650.6	207	cm71710-4-A29b-1-27	3156.28	14.2997	374
14/12.	0	2.97	0.009	1.954	0	0.284	1.092	0.034	1.698	0.004	8.045	4390.9	-35652.6	207	cm71710-4-A29b-1-27	3156.62	14.2937	375
14/13.	0.001	2.961	0.009	1.95	0.001	0.394	1.074	0.033	1.627	0.004	8.055	4391.5	-35654.5	207	cm71710-4-A29b-1-27	3156.96	14.1811	376
14/14.	0.002	2.967	0.01	1.948	0	0.433	1.084	0.033	1.566	0.003	8.047	4392	-35656.5	207	cm71710-4-A29b-1-27	3157.31	14.1056	377
14/15.	0.002	2.957	0.012	1.94	0.001	0.401	1.122	0.034	1.588	0.003	8.059	4392.5	-35658.5	207	cm71710-4-A29b-1-27	3157.65	14.1308	378
14/16.	0.001	2.961	0.009	1.954	0.001	0.416	1.112	0.034	1.562	0.003	8.052	4393.1	-35660.4	207	cm71710-4-A29b-1-27	3157.99	14.092	379
14/17.	0	2.961	0.007	1.961	0	0.57	0.945	0.032	1.574	0.003	8.053	4393.6	-35662.4	207	cm71710-4-A29b-1-27	3158.34	13.9974	380
14/18.	0.002	2.962	0.002	1.975	0.001	0.808	0.48	0.034	1.781	0.002	8.047	4394.2	-35664.4	207	cm71710-4-A29b-1-27	3158.69	14.1213	381
14/19.	0.002	2.962	0.002	1.973	0.001	0.843	0.461	0.031	1.769	0.002	8.047	4394.7	-35666.3	207	cm71710-4-A29b-1-27	3159.04	14.0395	382
14/20.	0.001	2.957	0.002	1.979	0.002	0.837	0.49	0.03	1.748	0.005	8.051	4395.2	-35668.3	207	cm71710-4-A29b-1-27	3159.39	14.0174	383
14/21.	0	2.961	0.001	1.981	0.001	0.832	0.518	0.026	1.726	0.002	8.048	4395.8	-35670.2	207	cm71710-4-A29b-1-27	3159.74	13.9907	384
14/22.	0.001	2.965	0.002	1.967	0.001	0.861	0.499	0.025	1.724	0.001	8.047	4396.3	-35672.2	207	cm71710-4-A29b-1-27	3160.09	13.9802	385
14 / 23 .	0	2.954	0.002	1.983	0.001	0.862	0.494	0.024	1.732	0	8.052	4396.8	-35674.2	207	cm71710-4-A29b-1-27	3160.44	14.0005	386
14/24.	0.001	2.965	0.002	1.975	0.002	0.87	0.46	0.028	1.739	0.003	8.045	4397.4	-35676.1	207	cm71710-4-A29b-1-27	3160.8	14.0427	387
14 / 25 .	0.001	2.95	0.003	1.98	0.001	0.887	0.465	0.026	1.739	0.002	8.055	4397.9	-35678.1	207	cm71710-4-A29b-1-27	3161.16	13.9931	388
14 / 26 .	0	2.97	0.002	1.97	0	0.882	0.458	0.027	1.733	0.002	8.044	4398.5	-35680	207	cm71710-4-A29b-1-27	3161.51	13.9912	389
14/27.	0.001	2.966	0.002	1.973	0.001	0.902	0.433	0.025	1.741	0.001	8.044	4399	-35682	207	cm71710-4-A29b-1-27	3161.87	13.9993	390
15/1.	0	2.958	0.011	1.952	0.001	0.264	1.092	0.033	1.741	0.004	8.056	4329	-35777	207	cm71710-4-A29c-1-22	3084.86	14.2787	391
15/2.	0.003	2.958	0.01	1.947	0.001	0.274	1.092	0.035	1.733	0.002	8.055	4331	-35777.2	207	cm71710-4-A29c-1-22	3086.84	14.2933	392
15/3.	0.002	2.961	0.011	1.954	0.002	0.276	1.083	0.032	1.723	0.003	8.047	4333	-35777.5	207	cm71710-4-A29c-1-22	3088.82	14.2721	393
15/4.	0.002	2.969	0.01	1.95	0	0.282	1.083	0.034	1.709	0.003	8.043	4335	-35777.7	207	cm71710-4-A29c-1-22	3090.8	14.2008	394
15/5.	0.001	2.969	0.009	1.951	0.001	0.286	1.083	0.035	1.707	0.004	8.046	4337	-35778	207	cm71710-4-A29c-1-22	3092.78	14.2972	395
15/6.	0.002	2.965	0.01	1.947	0.001	0.279	1.082	0.034	1.73	0.003	8.05	4339	-35778.2	207	cm71710-4-A29c-1-22	3094.77	14.2666	396
15/7.	0.002	2.951	0.009	1.96	0.001	0.287	1.091	0.033	1.72	0.002	8.057	4341	-35778.4	207	cm71710-4-A29c-1-22	3096.75	14.2675	397
15/8.	0.002	2.961	0.01	1.951	0.001	0.319	1.095	0.033	1.676	0.002	8.051	4343	-35778.7	207	cm71710-4-A29c-1-22	3098.73	14.262	398
15/9.	0.002	2.952	0.008	1.955	0	0.508	1.016	0.03	1.589	0.006	8.064	4345	-35778.9	207	cm71710-4-A29c-1-22	3100.71	14.047	399
15/10.	0	2.968	0.004	1.969	0	0.709	0.637	0.037	1.718	0.002	8.044	4347	-35779.1	207	cm71710-4-A29c-1-22	3102.69	14.0262	400
15/11.	0.001	2.964	0.003	1.984	0	0.745	0.569	0.035	1.737	0.003	8.041	4349	-35779.4	207	cm71710-4-A29c-1-22	3104.68	14.0243	401
15/12.	0	2.958	0.004	1.979	0.001	0.765	0.545	0.037	1.758	0.003	8.05	4351	-35779.6	207	cm71710-4-A29c-1-22	3106.66	14.0435	402
15/13.	0.001	2.956	0.002	1.982	0.001	0.781	0.521	0.036	1.768	0.002	8.05	4353	-35779.9	207	cm71710-4-A29c-1-22	3108.64	14.0469	403
15 / 14 .	0.001	2.957	0.002	1.978	0.001	0.814	0.459	0.037	1.8	0.001	8.051	4355	-35780.1	207	cm71710-4-A29c-1-22	3110.62	14.0166	404
15 / 15 .	0.001	2.961	0.002	1.978	0.001	0.791	0.505	0.04	1.766	0.003	8.048	4357	-35780.3	207	cm71710-4-A29c-1-22	3112.6	13.9993	405
15 / 16 .	0	2.96	0.002	1.974	0	0.822	0.474	0.042	1.773	0.004	8.052	4359	-35780.6	207	cm71710-4-A29c-1-22	3114.59	14.0354	406
15/17.	0	2.953	0.002	1.992	0.001	0.854	0.443	0.047	1.755	0.003	8.049	4361	-35780.8	207	cm71710-4-A29c-1-22	3116.57	13.9864	407
15/18.	0	2.971	0	1.974	0	0.875	0.42	0.05	1.75	0.002	8.043	4363	-35781.1	207	cm71710-4-A29c-1-22	3118.55	13.9736	408
15/19.	0.001	2.952	0.003	1.985	0	0.874	0.444	0.049	1.739	0.005	8.053	4365	-35781.3	207	cm71710-4-A29c-1-22	3120.53	14.0128	409
15 / 20 .	0.002	2.957	0.002	1.98	0.002	0.878	0.447	0.049	1.729	0.004	8.049	4367	-35781.5	207	cm71710-4-A29c-1-22	3122.51	14.0344	410
15/21.	0.002	2.958	0.003	1.978	0.001	0.864	0.485	0.052	1.703	0.001	8.047	4369	-35781.8	207	cm71710-4-A29c-1-22	3124.5	13.9256	411
15 / 22 .	0.001	2.959	0.004	1.983	0.001	0.86	0.5	0.053	1.678	0.005	8.045	4371	-35782	207	cm71710-4-A29c-1-22	3126.48	13.9155	412

14.2862	367	3/12/2013 13:30	Garnet (on the basis of 12 O)
14.2945	368	3/12/2013 13:34	Garnet (on the basis of 12 O)
14.305	369	3/12/2013 13:37	Garnet (on the basis of 12 O)
14.3886	370	3/12/2013 13:41	Garnet (on the basis of 12 O)
14.2482	371	3/12/2013 13:45	Garnet (on the basis of 12 O)
14.3362	372	3/12/2013 13:49	Garnet (on the basis of 12 O)
14.2579	373	3/12/2013 13:52	Garnet (on the basis of 12 O)
14.2997	374	3/12/2013 13:56	Garnet (on the basis of 12 O)
14.2937	375	3/12/2013 14:00	Garnet (on the basis of 12 O)
14.1811	376	3/12/2013 14:03	Garnet (on the basis of 12 O)
14.1056	377	3/12/2013 14:07	Garnet (on the basis of 12 O)
14.1308	378	3/12/2013 14:11	Garnet (on the basis of 12 O)
14.092	379	3/12/2013 14:14	Garnet (on the basis of 12 O)
13.9974	380	3/12/2013 14:18	Garnet (on the basis of 12 O)
14.1213	381	3/12/2013 14:22	Garnet (on the basis of 12 O)
14.0395	382	3/12/2013 14:25	Garnet (on the basis of 12 O)
14.0174	383	3/12/2013 14:29	Garnet (on the basis of 12 O)
13.9907	384	3/12/2013 14:33	Garnet (on the basis of 12 O)
13.9802	385	3/12/2013 14:36	Garnet (on the basis of 12 O)
14.0005	386	3/12/2013 14:40	Garnet (on the basis of 12 O)
14.0427	387	3/12/2013 14:44	Garnet (on the basis of 12 O)
13.9931	388	3/12/2013 14:48	Garnet (on the basis of 12 O)
13.9912	389	3/12/2013 14:51	Garnet (on the basis of 12 O)
13.9993	390	3/12/2013 14:55	Garnet (on the basis of 12 O)
14.2787	391	3/12/2013 14:59	Garnet (on the basis of 12 O)
14.2933	392	3/12/2013 15:03	Garnet (on the basis of 12 O)
14.2721	393	3/12/2013 15:07	Garnet (on the basis of 12 O)
14.2008	394	3/12/2013 15:10	Garnet (on the basis of 12 O)
14.2972	395	3/12/2013 15:14	Garnet (on the basis of 12 O)
14.2666	396	3/12/2013 15:18	Garnet (on the basis of 12 O)
14.2675	397	3/12/2013 15:21	Garnet (on the basis of 12 O)
14.262	398	3/12/2013 15:25	Garnet (on the basis of 12 O)
14.047	399	3/12/2013 15:29	Garnet (on the basis of 12 O)
14.0262	400	3/12/2013 15:33	Garnet (on the basis of 12 O)
14.0243	401	3/12/2013 15:36	Garnet (on the basis of 12 O)
14.0435	402	3/12/2013 15:40	Garnet (on the basis of 12 O)
14.0469	403	3/12/2013 15:44	Garnet (on the basis of 12 O)
14.0166	404	3/12/2013 15:47	Garnet (on the basis of 12 O)
13.9993	405	3/12/2013 15:51	Garnet (on the basis of 12 O)
14.0354	406	3/12/2013 15:55	Garnet (on the basis of 12 O)
13.9864	407	3/12/2013 15:59	Garnet (on the basis of 12 O)
13.9736	408	3/12/2013 16:02	Garnet (on the basis of 12 O)
14.0128	409	3/12/2013 16:06	Garnet (on the basis of 12 O)
14.0344	410	3/12/2013 16:10	Garnet (on the basis of 12 O)
13.9256	411	3/12/2013 16:13	Garnet (on the basis of 12 O)
13.9155	412	3/12/2013 16:17	Garnet (on the basis of 12 O)