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Tectonic evolution of the northern Verkhoyansk Fold-and-Thrust Belt: insights from palaeostress analysis and U-Pb calcite dating

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Supplementary Table S2. U-Pb calcite dating data.

The measurements marked with blue, green and yellow refer to the corresponding colored points in the CL images (Fig. 17). The measurements not involved in the age calculation are marked with pink.

PASTE RAW DATA

	Crater Size [μm]	Pulse rate [Hz]	Duration(s) Duration(s)	Pb206_CPS Pb206_CPS	Pb206_CPS_Int2SE Pb206_CPS_Int2SE	Pb207_CPS Pb207_CPS	Pb207_CPS_Int2SE Pb207_CPS_Int2SE
ASH_15D_1	110	5	18.5	1010	150	372	62
ASH_15D_2	110	5	17.6	623	35	186	76
ASH_15D_3	110	5	36.7	546	61	276	74
ASH_15D_4	110	5	34.0	600	170	263	69
ASH_15D_5	110	5	34.6	692	54	273	39
ASH_15D_6	110	5	35.1	922	34	382	32
ASH_15D_7	110	5	34.7	546	29	258	21
ASH_15D_8	110	5	34.9	534	34	323	27
ASH_15D_9	110	5	36.0	539	29	324	22
ASH_15D_10	110	5	36.1	415	22	229	18
ASH_15D_11	110	5	36.0	581	31	241	18
C_WC1_1	110	5	35.9	60190	490	6160	270
C_WC1_2	110	5	36.0	50040	330	4510	67
C_WC1_3	110	5	35.9	56990	420	6660	100
C_WC1_4	110	5	36.1	79800	1100	7800	130
C_WC1_5	110	5	36.2	53480	520	6100	120
C_WC1_6	110	5	36.0	69520	550	8260	130
C_WC1_7	110	5	36.0	46610	490	4605	81
C_WC1_8	110	5	30.2	47950	380	4269	89
C_WC1_9	110	5	35.9	57890	380	5783	71
C_WC1_10	110	5	36.0	58770	300	6673	95
C_WC1_11	110	5	27.0	58200	350	6330	120
C_WC1_12	110	5	35.6	51180	320	5430	190
C_WC1_13	110	5	35.9	46550	590	5090	230
C_WC1_14	110	5	38.2	63920	470	7130	140
C_WC1_15	110	5	35.9	54560	330	5491	68

C_WC1_16	110	5	36.2	56680	570	7210	410
C_WC1_17	110	5	35.9	53280	570	5280	92
C_WC1_18	110	5	35.9	55370	530	5076	76
C_WC1_19	110	5	36.0	64330	340	6897	84
C_WC1_20	110	5	35.1	55210	300	5478	79
C_WC1_21	110	5	36.1	49800	520	4304	85
C_WC1_22	110	5	36.1	65620	370	6834	83
C_WC1_23	110	5	36.0	62010	600	7500	110
C_WC1_24	110	5	36.0	60770	340	6340	84
C_WC1_25	110	5	36.1	45340	390	5018	86
C_WC1_26	110	5	36.0	70750	660	10760	180
C_WC1_27	110	5	36.0	58280	500	6610	110
C_WC1_28	110	5	36.0	54710	410	5629	65
C_WC1_29	110	5	35.9	52590	330	5291	69
C_WC1_30	110	5	36.2	65440	380	8340	110

EP-D24_1	110	5	23.6	206100	5900	171000	5200
EP-D24_2	110	5	26.2	187900	7600	147300	6100
EP-D24_3	110	5	36.0	10070	190	1989	84
EP-D24_4	110	5	14.1	54100	1600	38400	1200
EP-D24_5	110	5	12.6	22020	610	10960	450
EP-D24_6	110	5	28.0	2560	84	1420	130
EP-D24_7	110	5	34.8	3020	180	1488	40
EP-D24_8	110	5	16.9	15780	680	5240	600
EP-D24_9	110	5	3.9	24370	490	14440	490
EP-D24_10	110	5	28.1	7340	460	5830	370
EP-D24_11	110	5	5.6	4850	250	3490	220
EP-D24_12	110	5	23.3	2148	70	1717	59
EP-D24_13	110	5	7.6	34100	1600	28700	1300
EP-D24_14	110	5	11.3	350000	14000	284000	11000
EP-D24_15	110	5	24.3	570000	12000	479000	10000

EP-D24_16	110	5	25.9	5260	83	3537	63
EP-D24_17	110	5	11.5	4330	110	3302	80
EP-D24_18	110	5	37.4	5007	70	3168	51
EP-D24_19	110	5	36.0	2874	57	776	31
EP-D24_20	110	5	37.1	2653	50	1037	42
EP-D24_21	110	5	18.4	3599	80	2251	63
EP-D24_22	110	5	18.1	3747	83	2875	71
EP-D24_23	110	5	36.0	4417	57	2509	44
EP-D24_24	110	5	36.0	3135	57	2115	49
EP-D24_25	110	5	32.8	4894	67	3748	61
EP-D24_26	110	5	36.0	3123	54	1586	38
EP-D24_27	110	5	36.0	3511	59	1613	46
EP-D24_28	110	5	36.0	3578	52	1707	48
EP-D24_29	110	5	36.0	3163	63	749	27
EP-D24_30	110	5	12.0	4288	91	2597	81
EP-D24_31	110	5	17.9	23470	640	19360	580
EP-D24_32	110	5	36.0	2259	43	1396	32
EP-D24_33	110	5	36.0	3668	68	2355	50
EP-D24_34	110	5	36.0	5082	63	3935	61
EP-D24_35	110	5	35.9	3675	76	762	25
EP-D24_36	110	5	36.0	2102	44	1209	29
EP-D24_37	110	5	35.9	2470	53	1094	33
EP-D24_38	110	5	36.0	15040	300	4040	190
EP-D24_39	110	5	28.7	6710	430	1548	95
EP-D24_40	110	5	34.7	27730	730	23440	640
EP-D24_41	110	5	36.2	3410	100	2248	77
EP-D24_42	110	5	21.8	6610	170	2267	96
EP-D24_43	110	5	29.1	242600	3600	202100	3200
EP-D24_44	110	5	15.6	5060	290	4060	270
EP-D24_45	110	5	19.9	2840	110	2074	75
EP-D24_46	110	5	36.0	1531	38	1228	32

EP-D24_47	110	5	35.4	1901	74	686	34
EP-D24_48	110	5	7.6	20970	350	6590	330
EP-D24_49	110	5	14.5	15280	410	4090	270
EP-D24_50	110	5	36.0	4802	85	816	26
EP-D24_51	110	5	36.0	1837	38	967	29
EP-D24_52	110	5	13.2	152600	7600	117800	6400
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EP-D24_54	110	5	36.0	2076	43	1151	33
EP-D24_55	110	5	36.0	3134	51	2530	46
EP-D24_56	110	5	36.0	5714	76	4325	70
EP-D24_57	110	5	36.5	6400	110	3940	87
EP-D24_58	110	5	9.7	6590	150	4130	130
EP-D24_59	110	5	13.1	8220	240	5580	190
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EP-D24_61	110	5	36.0	2940	55	2086	39
EP-D24_62	110	5	36.0	5260	110	4120	90
EP-D24_63	110	5	36.0	5540	130	4120	100
EP-D24_64	110	5	36.0	3884	82	1956	65
EP-D24_65	110	5	36.0	5173	85	3276	65
EP-D24_66	110	5	27.7	2560	59	1364	46
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EP-D24_69	110	5	36.0	3420	140	2580	120
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G_NIST614_2	110	5	36.0	196700	2200	170800	1900
G_NIST614_3	110	5	36.0	190400	2400	165500	2100
G_NIST614_4	110	5	36.0	190000	2000	165200	1800
G_NIST614_5	110	5	36.0	188100	1900	163200	1700
G_NIST614_6	110	5	36.0	182800	2100	158800	2000
G_NIST614_7	110	5	36.0	184300	2100	160400	1800

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G_NIST614_10	110	5	36.0	187600	2200	162600	1900
G_NIST614_11	110	5	36.0	180400	2200	157100	2000
G_NIST614_12	110	5	36.0	179500	2300	156000	2000
G_NIST614_13	110	5	36.0	172800	2100	150200	1800
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G_NIST614_15	110	5	36.0	170700	2200	148100	1900
JT_1	110	5	23.8	260	28	117	21
JT_2	110	5	35.0	344	48	151	21
JT_3	110	5	35.9	514	33	127	17
JT_4	110	5	36.8	349	26	92	12
JT_5	110	5	34.7	179	18	55.5	8.8
JT_6	110	5	34.6	404	39	115	15
JT_7	110	5	32.4	390	23	103	24
JT_8	110	5	32.3	306	17	79	13
JT_9	110	5	34.6	390	130	121	14
JT_10	110	5	36.5	472	31	158	63
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EP-N28-22_2	163	7.4	32.7	4910	330	3760	260
EP-N28-22_3	163	7.4	34.5	1110	44	878	40
EP-N28-22_4	163	7.4	36.0	1952	58	1438	45
EP-N28-22_5	163	7.4	36.0	1089	31	857	26
EP-N28-22_6	163	7.4	36.0	1110	28	855	27
EP-N28-22_7	163	7.4	36.0	4990	270	3690	200
EP-N28-22_8	163	7.4	31.4	21200	1400	16100	1100
EP-N28-22_9	163	7.4	36.0	986	51	841	50
EP-N28-22_10	163	7.4	36.0	3620	210	2810	160
EP-N28-22_11	163	7.4	36.0	6130	340	4600	270

EP-N28-22_12	163	7.4	36.0	2760	210	2190	180
EP-N28-22_13	163	7.4	12.0	1525	78	1238	62
EP-N28-22_14	163	7.4	10.4	997	68	747	50
EP-N28-22_15	163	7.4	36.0	1833	62	1412	53
EP-N28-22_16	163	7.4	17.6	1429	56	1057	40
EP-N28-22_17	163	7.4	36.0	1082	54	861	43
EP-N28-22_18	163	7.4	35.9	3310	140	2520	120
EP-N28-22_19	163	7.4	35.7	1117	36	851	32
EP-N28-22_20	163	7.4	14.2	3090	150	2440	110
EP-N28-22_21	163	7.4	8.9	2840	180	2030	110
EP-N28-22_22	163	7.4	10.6	2570	190	2050	140
EP-N28-22_23	163	7.4	36.3	1315	60	983	44
EP-N28-22_24	163	7.4	36.0	1852	77	665	49
EP-N28-22_25	163	7.4	10.3	2840	230	1620	110
EP-N28-22_26	163	7.4	25.3	1014	60	252	30
EP-N28-22_27	163	7.4	36.0	822	32	613	32
EP-N28-22_28	163	7.4	29.7	686	31	211	19
EP-N28-22_29	163	7.4	36.0	1157	76	438	41
EP-N28-22_30	163	7.4	36.0	306	39	241	34
EP-N28-22_31	163	7.4	19.4	278	25	133	18
EP-N28-22_32	163	7.4	4.7	663	98	403	82
EP-N28-22_33	163	7.4	21.9	15640	680	11640	530
EP-N28-22_34	163	7.4	18.9	1608	56	235	26
EP-N28-22_35	163	7.4	10.0	1926	85	163	23
EP-N28-22_36	163	7.4	35.3	677	25	171	14
EP-N28-22_37	163	7.4	33.4	645	43	278	30
EP-N28-22_38	163	7.4	33.8	390	21	128	16
EP-N28-22_39	163	7.4	34.7	379	20	127	12
EP-N28-22_40	163	7.4	36.0	513	32	380	24
EP-N28-22_41	163	7.4	36.0	1320	57	890	39
EP-N28-22_42	163	7.4	34.4	762	43	493	25

EP-N28-22_43	163	7.4	36.0	779	49	582	44
EP-N28-22_44	163	7.4	12.6	1272	96	880	100
EP-N28-22_45	163	7.4	21.2	806	35	187	20
EP-N28-22_46	163	7.4	36.0	350	28	251	21
EP-N28-22_47	163	7.4	9.0	2360	220	2100	200
EP-N28-22_48	163	7.4	26.2	486	36	341	24
EP-N28-22_49	163	7.4	33.2	508	25	293	24
EP-N28-22_50	163	7.4	9.0	4420	290	3710	250
EP-N28-22_51	163	7.4	24.8	902	64	701	57
EP-N28-22_52	163	7.4	36.0	3630	150	3070	130
EP-N28-22_53	163	7.4	35.9	736	86	651	80
EP-N28-22_54	163	7.4	36.0	751	82	623	77
EP-N28-22_55	163	7.4	36.0	1909	67	1495	61
EP-N28-22_56	163	7.4	36.0	1686	59	1301	40
PDF_9B_1	110	5	36.9	83580	870	12740	400
PDF_9B_2	110	5	33.1	83850	710	12280	370
PDF_9B_3	110	5	37.5	74860	620	5872	80
PDF_9B_4	110	5	36.1	75810	750	7140	270
PDF_9B_5	110	5	32.4	93020	880	30900	740
PDF_9B_6	110	5	37.4	86520	470	21810	340
PDF_9B_7	110	5	37.5	95400	1000	29900	740
PDF_9B_8	110	5	36.2	72430	540	12310	420
PDF_9B_9	110	5	37.3	71200	440	6870	120
PDF_9B_10	110	5	37.2	69300	1000	6960	380
PDF_9B_11	110	5	35.9	82900	1300	14550	890
PDF_9B_12	110	5	37.8	77900	690	11380	300
PDF_9B_13	110	5	37.3	78610	940	12760	620
PDF_9B_14	110	5	37.3	72360	560	12570	340
PDF_9B_15	110	5	37.4	69780	430	7970	130
PDF_9B_16	110	5	37.8	63860	490	5845	86

PDF_9B_17	110	5	37.1	74590	480	10790	300
PDF_9B_18	110	5	37.9	64450	420	7920	150
PDF_9B_19	110	5	37.6	75100	770	10280	370
PDF_9B_20	110	5	37.9	98000	1800	27200	1100
PDF_9B_21	110	5	37.9	72420	490	11420	200
PDF_9B_22	110	5	37.9	67630	640	7290	190
PDF_9B_23	110	5	37.7	70450	640	8020	260
PDF_9B_24	110	5	37.9	73140	900	14360	530
PDF_9B_25	110	5	37.9	76500	1000	16530	650
PDF_9B_26	110	5	38.1	90900	1200	29600	1100
PDF_9B_27	110	5	37.9	81120	740	19690	640
PDF_9B_28	110	5	38.3	64760	600	8980	150
PDF_9B_29	110	5	38.6	66320	450	9870	170
PDF_9B_30	110	5	38.2	75770	520	16010	240
SM19-30_1	110	5	36.0	71400	1400	56200	1100
SM19-30_2	110	5	36.0	107300	1000	84930	830
SM19-30_3	110	5	35.7	10610	240	7390	210
SM19-30_4	110	5	36.0	78530	540	62060	430
SM19-30_5	110	5	36.0	4023	73	2498	55
SM19-30_6	110	5	36.0	6564	89	4699	77
SM19-30_7	110	5	36.0	3139	55	2170	41
SM19-30_8	110	5	36.0	4518	79	3092	54
SM19-30_9	110	5	13.6	2500	140	1410	120
SM19-30_10	110	5	17.9	4850	310	3290	250
SM19-30_11	110	5	36.0	93500	670	73530	570
SM19-30_12	110	5	36.0	987	25	643	20
SM19-30_13	110	5	36.0	1998	56	1297	45
SM19-30_14	110	5	19.7	3750	100	2873	90
SM19-30_15	110	5	36.0	110030	990	87090	800
SM19-30_16	110	5	36.0	135600	1100	107400	880

SM19-30_17	110	5	35.9	32830	260	25670	210
SM19-30_18	110	5	35.9	133630	950	105940	720
SM19-30_19	110	5	29.1	2215	52	1184	36
SM19-30_20	110	5	36.0	1103	30	528	22
SM19-30_21	110	5	36.0	67400	680	53020	530
SM19-30_22	110	5	36.0	16940	300	12960	270
SM19-30_23	110	5	33.1	4856	72	3362	52
SM19-30_24	110	5	36.0	37210	700	29550	590
SM19-30_25	110	5	35.9	14450	150	11110	120
SM19-30_26	110	5	36.0	3000	240	2350	190
SM19-30_27	110	5	35.9	85070	570	66970	450
SM19-30_28	110	5	36.0	92300	1000	72430	830
SM19-30_29	110	5	35.9	138600	1900	109400	1500
SM19-30_30	110	5	36.0	93880	850	73660	660
SM19-30_31	110	5	36.0	54850	470	43180	400
SM19-30_32	110	5	36.0	96200	1000	75970	870
SM19-30_33	110	5	36.0	134500	1200	107000	960
SM19-30_34	110	5	35.9	96160	800	76500	630
SM19-30_35	110	5	36.0	1713	44	843	31
SM19-30_36	110	5	36.0	81450	630	64360	530
SM19-30_37	110	5	36.0	1555	36	767	27
SM19-30_38	110	5	36.0	16740	140	12930	130
SM19-30_39	110	5	36.0	3904	65	2783	53
SM19-30_40	110	5	36.0	1450	33	669	21
SM19-30_41	110	5	36.0	2292	55	1409	40
SM19-30_42	110	5	36.0	2309	52	1403	43
EP-D08_A2_1	110	5	16.4	80750	900	68410	720
EP-D08_A2_3	110	5	22.1	73750	420	63080	330
EP-D08_A2_4	110	5	35.9	47520	330	40160	280
EP-D08_A2_5	110	5	34.3	313	17	213	13

EP-D08_A2_6	110	5	35.9	372	17	188	13
EP-D08_A2_7	110	5	20.8	953	42	331	23
EP-D08_A2_8	110	5	7.6	5140	380	4050	290
EP-D08_A2_9	110	5	32.8	3384	93	2705	80
EP-D08_A2_10	110	5	36.0	1440	47	358	22
EP-D08_A2_11	110	5	35.5	35150	640	29830	560
EP-D08_A2_12	110	5	32.7	79200	7900	68800	6900
EP-D08_A2_17	110	5	30.6	41300	1500	37300	1800
EP-D08_A2_18	110	5	27.0	259100	6200	220200	5100
EP-D08_A2_19	110	5	17.8	5430	280	4800	240
EP-D08_A2_20	110	5	36.0	1380	55	1159	41
EP-D08_A2_21	110	5	6.1	408	33	305	35
EP-D08_A2_22	110	5	3.4	476	60	384	70
EP-D08_A2_26	110	5	34.0	199700	5900	166400	4700
EP-D08_A2_28	110	5	15.9	14610	920	12380	800
EP-D08_A2_29	110	5	8.4	9030	300	7560	170
EP-D08_A2_30	110	5	28.9	20000	1600	17100	1400
EP-D08_A2_32	110	5	35.9	1108	29	1001	28
EP-D08_A2_35	110	5	36.0	37600	2200	30700	1600
EP-D08_A2_37	110	5	36.0	10060	310	8550	250
EP-D08_A2_40	110	5	35.9	187000	14000	160000	12000
EP-D08_A2_41	110	5	12.0	6810	490	5770	440
EP-D08_A2_42	110	5	12.5	4390	230	3700	190
EP-D08_A2_43	110	5	19.3	3990	160	3490	150
EP-D08_A2_49	110	5	36.0	1381	49	1126	33
EP-D08_A2_50	110	5	36.0	71590	550	60990	510
EP-D08_A2_51	110	5	6.4	84790	730	72100	660
EP-D08_A2_52	110	5	35.9	88820	780	75740	680
EP-D08_A2_53	110	5	10.1	72410	600	61820	430
EP-D08_A2_54	110	5	35.9	81410	400	69260	360
EP-D08_A2_55	110	5	36.0	101070	900	85560	670

U238_CPS	U238_CPS_Int2SE
U238_CPS	U238_CPS_Int2SE
1.18E+06	7.20E+03
1.09E+06	9.30E+03
6.43E+05	4.50E+03
4.32E+05	1.40E+04
8.97E+05	3.70E+03
1.15E+06	1.30E+04
5.97E+05	2.90E+03
3.41E+05	7.80E+03
4.39E+05	3.20E+03
4.11E+05	9.80E+03
7.39E+05	1.10E+04
1.52E+06	1.30E+04
1.28E+06	1.00E+04
1.39E+06	1.50E+04
2.10E+06	3.50E+04
1.30E+06	1.40E+04
1.69E+06	2.00E+04
1.16E+06	1.50E+04
1.21E+06	1.30E+04
1.47E+06	1.80E+04
1.45E+06	1.20E+04
1.45E+06	9.70E+03
1.31E+06	1.30E+04
1.14E+06	1.50E+04
1.59E+06	1.60E+04
1.42E+06	1.20E+04

Final Data (NIST614, Drift and WC-1 corrected)					
corr 238/206	1SE prop	ROM 207/206		err corr	
		corr	1SE		
1084.282811	84.4210899	0.36921	0.04111	0.301	
1630.215415	53.66753782	0.29928	0.06157	0.234	
1100.078944	64.75501192	0.50673	0.07341	0.022	
684.0082357	95.72036599	0.43940	0.08463	0.129	
1214.240113	53.12740924	0.39547	0.03211	0.134	
1159.207236	31.62980951	0.41533	0.01896	0.062	
1018.790766	32.88635541	0.47368	0.02296	0.218	
580.6226844	22.82973438	0.60634	0.03178	0.199	
751.8115866	23.96522229	0.60258	0.02604	0.434	
879.0696793	28.88816744	0.55315	0.02616	0.39	
1145.803583	37.29891193	0.41581	0.01904	0.457	
23.6110683	0.448217145	0.10259	0.00228	-0.01	
23.67583853	0.449481372	0.09035	0.00073	0.188	
22.7995067	0.434322187	0.11715	0.00098	0.095	
24.45089949	0.463499532	0.09798	0.00106	0.398	
22.7441838	0.431679804	0.11434	0.00125	0.035	
22.74044424	0.436591814	0.11910	0.00105	-0.17	
23.19701928	0.439546625	0.09904	0.00101	-0.02	
23.81070902	0.453681567	0.08925	0.00099	-0.15	
23.71481325	0.452373817	0.10014	0.00070	-0.2	
22.97011627	0.437097133	0.11382	0.00086	-0.02	
23.27650812	0.440640052	0.10903	0.00108	0.176	
23.81997682	0.451193683	0.10635	0.00189	0.118	
22.90180703	0.43925563	0.10961	0.00257	0.268	
23.06916147	0.441381588	0.11182	0.00117	0.116	
24.18021581	0.458257616	0.10089	0.00069	0.159	

1.39E+06	9.30E+03	22.70900741	0.434833346	0.12752	0.00367	0.017
1.39E+06	1.80E+04	24.07776657	0.457377578	0.09934	0.00101	-0.04
1.45E+06	2.10E+04	24.35823558	0.462878676	0.09190	0.00081	0.041
1587000	11000	22.80369793	0.433507834	0.10747	0.00071	0.146
1.46E+06	1.00E+04	24.33663	0.462515324	0.09946	0.00076	0.145
1.23E+06	1.60E+04	22.73709635	0.433328518	0.08664	0.00097	0.114
1.63E+06	1.10E+04	22.72118149	0.433017109	0.10440	0.00070	0.117
1.49E+06	1.80E+04	21.96978322	0.417766968	0.12124	0.00106	-0.04
1.51E+06	1.30E+04	22.68965248	0.431940652	0.10458	0.00075	0.193
1.14E+06	1.30E+04	22.9194063	0.434492377	0.11094	0.00106	0.098
1.55E+06	1.30E+04	20.00575346	0.378337267	0.15246	0.00146	0.201
1.47E+06	1.30E+04	22.65985457	0.430988571	0.11369	0.00106	0.456
1.37E+06	1.50E+04	22.5753762	0.429857357	0.10314	0.00071	0.363
1.34E+06	9.30E+03	22.87374413	0.443870574	0.10085	0.00073	0.606
1.59E+06	1.40E+04	22.00234401	0.42020759	0.12776	0.00092	-0.09
8.41E+05	2.50E+04	3.736768964	0.102518554	0.83171	0.01733	-0.03
1.54E+06	5.50E+04	7.609368243	0.159230955	0.78584	0.02269	-0.02
9.13E+05	2.00E+04	83.03243459	1.71987715	0.19800	0.00457	-0.36
9.26E+05	7.30E+03	15.99585991	0.363190109	0.71153	0.01527	0.074
8.56E+05	5.30E+03	36.40825368	0.839372874	0.49894	0.01233	-0.27
6.67E+04	2.60E+03	23.63254081	0.674618882	0.55604	0.02697	0.092
9.30E+04	1.70E+03	28.47959583	0.911857011	0.49392	0.01611	0.421
1.06E+06	5.70E+04	60.56183885	2.119378795	0.33287	0.02031	-0.88
7.95E+05	8.20E+03	30.37968302	0.62361761	0.59397	0.01169	0.039
5.19E+04	2.10E+03	6.860066338	0.187213882	0.79621	0.03542	0.157
6.34E+04	2.10E+03	12.3064334	0.474106685	0.72134	0.02930	-0.05
5.44E+03	2.70E+02	2.17698732	0.086471556	0.80129	0.01893	0.222
8.70E+03	1.40E+03	0.204331266	0.013115227	0.84369	0.02744	-0.27
7.82E+05	6.10E+03	2.084791459	0.057278727	0.81340	0.02259	0.299
6.41E+05	7.00E+03	1.061391551	0.022925509	0.84240	0.01246	0.107

1.16E+05	4.00E+03	20.39498126	0.479070927	0.67407	0.00800	0.247
4.98E+04	2.70E+03	10.29890214	0.33882416	0.76444	0.01339	0.198
1.55E+05	2.60E+03	28.12057812	0.607949722	0.63425	0.00675	0.299
2.30E+05	3.10E+03	74.11298517	1.517289777	0.27066	0.00602	0.011
1.74E+05	1.80E+03	61.36578951	1.379999524	0.39183	0.00873	0.067
9.85E+04	3.90E+03	24.94371484	0.734037718	0.62697	0.01118	0.08
3.88E+04	1.90E+03	9.319629722	0.298244796	0.76915	0.01273	0.05
1.64E+05	2.30E+03	34.86650132	0.731589388	0.56942	0.00618	0.286
6.83E+04	8.30E+02	20.46847836	0.435885477	0.67628	0.00993	0.224
3.01E+04	1.00E+03	5.639190346	0.142181147	0.76770	0.00814	-0.04
1.55E+05	2.50E+03	46.44490326	0.972829122	0.50908	0.00750	0.362
2.03E+05	3.70E+03	53.16558542	1.171571599	0.46053	0.00760	-0.01
1.98E+05	2.20E+03	51.47269688	1.057879689	0.47824	0.00755	0.164
2.83E+05	3.70E+03	82.90482253	1.715541873	0.23738	0.00488	0.462
1.50E+05	2.30E+03	32.55899123	0.755821954	0.60712	0.01142	0.475
7.02E+04	2.70E+03	2.692919447	0.092503527	0.82689	0.01671	-0.1
7.36E+04	5.60E+02	30.67103875	0.655197787	0.61948	0.00921	0.57
9.23E+04	1.60E+03	23.24994689	0.53860159	0.64360	0.00905	0.311
2.11E+04	3.40E+02	3.888298663	0.081654197	0.77619	0.00768	0.412
3.50E+05	5.40E+03	88.4431371	1.853025874	0.20785	0.00402	0.342
8.39E+04	1.80E+03	36.67864866	0.806432	0.57657	0.00916	0.401
1.38E+05	1.80E+03	52.03290995	1.117504555	0.44399	0.00820	0.216
1.19E+06	1.00E+04	73.74778225	1.485237218	0.26927	0.00686	-0.6
5.07E+05	4.70E+04	61.12485121	1.64154428	0.23126	0.01023	-0.12
1.09E+04	2.40E+02	0.3573926	0.00858696	0.84735	0.01603	0.092
5.69E+04	1.60E+03	15.90783189	0.384345093	0.66084	0.01486	-0
4.08E+05	6.80E+03	57.17985804	1.198361011	0.34380	0.00850	0.205
4.14E+05	6.90E+03	1.593768872	0.033956727	0.83509	0.00904	-0
2.70E+04	7.00E+02	4.898534414	0.16817483	0.80433	0.03522	-0
2.96E+04	6.10E+02	9.766389072	0.244823544	0.73206	0.01935	0.541
6.45E+03	1.60E+02	3.919777109	0.098938394	0.80404	0.01443	0.489

9.17E+04	5.00E+03	44.8326628	1.111468052	0.36174	0.01137	0.043
1.65E+06	1.70E+04	73.7812012	1.559023525	0.31502	0.00829	-0.2
1.21E+06	1.60E+04	74.19044717	1.583539679	0.26832	0.00954	-0.39
4.83E+05	4.60E+03	93.44695997	1.881720989	0.17034	0.00310	0.329
8.99E+04	8.20E+02	45.47798063	0.973801191	0.52768	0.00959	0.581
1.40E+06	2.10E+04	8.513115431	0.307515151	0.77383	0.02845	-0.22
1.00E+06	2.00E+04	1.525150973	0.048912345	0.83840	0.02186	-0.04
8.87E+04	2.30E+03	39.1837563	0.891551991	0.55578	0.00981	0.3
4.92E+03	1.30E+02	1.456514561	0.034705107	0.80924	0.00985	0.384
5.43E+04	1.10E+03	8.696229962	0.200339204	0.75876	0.00793	0.235
1.80E+05	1.70E+03	25.91663242	0.580138956	0.61712	0.00861	0.191
2.21E+05	3.30E+03	31.37917107	0.69808265	0.62823	0.01217	0.41
1.75E+05	2.20E+03	19.97160461	0.520003061	0.68049	0.01522	0.074
1.35E+05	3.70E+03	7.715554006	0.194366474	0.77304	0.02683	0.127
2.84E+04	4.30E+02	8.895607377	0.201643982	0.71125	0.00938	0.561
3.21E+04	4.70E+02	5.636249726	0.127174215	0.78518	0.01184	0.447
6.65E+04	1.60E+03	11.09928918	0.249236943	0.74549	0.01255	0.173
1.99E+05	1.70E+03	48.04171139	1.08208125	0.50483	0.00991	0.17
1.33E+05	1.70E+03	23.83829026	0.492321907	0.63483	0.00816	0.434
1.15E+05	1.40E+03	41.99347019	0.950809668	0.53411	0.01088	0.401
1.06E+05	1.70E+03	19.0035359	0.583237498	0.69576	0.02257	0.382
1.13E+05	1.00E+03	49.5453156	1.070669307	0.44750	0.00855	0.418
2.91E+04	5.30E+02	8.001944676	0.195852514	0.75622	0.02337	0.034
2.85E+05	2.90E+03	1.368147937	0.025790849	0.86957	0.00660	0.512
2.88E+05	2.90E+03	1.363201378	0.025707288	0.87044	0.00685	0.254
2.76E+05	3.10E+03	1.360431396	0.025653118	0.87134	0.00777	0.188
2.72E+05	2.80E+03	1.341215716	0.025296742	0.87159	0.00659	0.271
2.73E+05	2.90E+03	1.359442994	0.02563365	0.86974	0.00629	0.327
2.66E+05	3.10E+03	1.361198363	0.025655043	0.87082	0.00740	0.468
2.70E+05	2.80E+03	1.367058913	0.025822462	0.87244	0.00696	0.686

2.68E+05	2.90E+03	1.354428694	0.025553286	0.86950	0.00732	0.366
2.66E+05	2.70E+03	1.351671726	0.025476213	0.87056	0.00683	0.402
2.70E+05	2.80E+03	1.332980843	0.025085127	0.86885	0.00717	0.242
2.65E+05	3.20E+03	1.353557552	0.025529151	0.87296	0.00768	0.38
2.63E+05	3.20E+03	1.349295568	0.02546319	0.87120	0.00788	0.281
2.58E+05	3.00E+03	1.352851742	0.025507311	0.87133	0.00742	0.388
2.55E+05	3.10E+03	1.333111169	0.025144039	0.87193	0.00815	0.395
2.52E+05	3.10E+03	1.330098895	0.025075313	0.86972	0.00789	0.416
5.32E+04	6.40E+02	191.1112221	10.60616504	0.45110	0.04710	0.109
8.87E+04	7.60E+02	239.4440733	17.42541332	0.44002	0.04324	0.108
1.80E+05	1.60E+03	329.9610133	12.14027557	0.24768	0.01834	0.182
1.25E+05	1.30E+03	335.5282255	13.56353634	0.26425	0.01980	0.926
4.64E+04	1.20E+03	236.2163117	13.31207163	0.31081	0.02911	0.677
1.35E+05	4.20E+03	313.8490483	13.53156008	0.28535	0.02310	0.266
1.56E+05	1.60E+03	372.182842	12.60024687	0.26475	0.03174	-0.07
1.06E+05	1.90E+03	316.2116156	10.53731309	0.25880	0.02242	-0.05
9.23E+04	1.10E+03	216.787544	31.2336819	0.31101	0.05474	0.294
1.83E+05	2.50E+03	355.3860159	12.41992027	0.33556	0.06764	0.017
3.41E+03	1.20E+02	2.377205964	0.078601298	0.75143	0.01868	0.169
1.08E+04	4.20E+02	2.056232009	0.081284777	0.76765	0.03692	0.136
2.52E+03	1.00E+02	1.999580764	0.066246581	0.79292	0.02388	0.34
4.99E+03	2.10E+02	2.185656907	0.066358916	0.73847	0.01589	0.29
3.88E+03	1.30E+02	3.182579792	0.093461698	0.78888	0.01637	0.461
3.19E+03	1.10E+02	2.565156898	0.074982087	0.77215	0.01557	0.263
8.63E+03	5.40E+02	1.571413014	0.0534277	0.74128	0.02832	0.075
3.21E+04	1.60E+03	1.387212346	0.038503577	0.76128	0.03608	0.061
1.24E+03	6.30E+01	0.931204236	0.153026706	0.85502	0.03361	0.725
5.19E+03	2.30E+02	1.249827743	0.038673198	0.77813	0.03155	0.098
1.50E+04	7.60E+02	2.01807087	0.06736416	0.75224	0.03030	0.191

3.57E+03	1.70E+02	1.118971169	0.04078377	0.79541	0.04444	0.267
2.68E+03	1.70E+02	1.527227248	0.07355804	0.81378	0.02906	0.314
2.33E+03	1.50E+02	2.145305098	0.103955035	0.75107	0.03580	0.532
3.37E+03	1.30E+02	1.621970702	0.047125731	0.77220	0.01946	0.272
2.72E+03	1.20E+02	1.700261404	0.055909598	0.74148	0.02015	0.379
9.90E+02	1.10E+02	1.345838123	0.083402951	0.79769	0.02809	0.313
5.43E+03	2.20E+02	1.403581559	0.050589909	0.76318	0.02424	0.125
1.78E+03	8.60E+01	1.494743728	0.067423397	0.76372	0.01887	0.053
4.49E+03	3.00E+02	1.292741382	0.052693571	0.79157	0.02616	0.037
1.13E+04	6.80E+02	3.541205964	0.171730804	0.71653	0.02980	0.298
3.75E+03	1.90E+02	1.276423468	0.048365865	0.79961	0.04014	0.368
1.70E+03	1.50E+02	1.973710843	0.13157938	0.74935	0.02389	0.129
2.64E+04	1.50E+03	11.69396089	0.396759478	0.35995	0.01519	-0.26
2.33E+04	5.50E+02	7.325887796	0.352619264	0.57181	0.03014	0.419
1.95E+04	6.80E+02	17.10753459	0.489437201	0.24913	0.01652	0.155
3.43E+03	1.10E+02	3.676919988	0.112704715	0.74756	0.02428	0.348
1.09E+04	3.00E+02	14.29902708	0.388177124	0.30833	0.01549	0.4
1.71E+04	7.70E+02	13.73338944	0.395815382	0.37949	0.02165	0.065
1.38E+03	7.20E+01	7.626602623	2.375578718	0.78950	0.07487	0.172
3.13E+03	2.00E+02	9.363820816	0.477740175	0.47958	0.03887	0.838
5.35E+03	4.40E+02	6.769721079	0.56995097	0.60932	0.07644	0.055
4.33E+04	1.40E+03	2.525089245	0.090633289	0.74606	0.02343	0.036
3.63E+04	5.80E+02	20.13988784	0.551356525	0.14650	0.00848	0.015
4.32E+04	1.90E+03	20.64453196	0.590360642	0.08484	0.00626	0.149
1.24E+04	2.60E+02	16.15120798	0.458822929	0.25320	0.01134	0.326
8.27E+03	2.90E+02	11.53975147	0.413533527	0.43206	0.02734	0.226
6.46E+03	1.90E+02	14.75013239	0.553961935	0.32900	0.02234	-0.02
6.22E+03	1.60E+02	14.86774533	0.479404135	0.33591	0.01813	0.376
1.44E+03	6.80E+01	2.74313086	0.242393169	0.74254	0.03288	0.727
4.97E+03	1.50E+02	3.302994946	0.104561377	0.67588	0.02074	0.581
4.42E+03	1.40E+02	5.223955722	0.179811449	0.64856	0.02454	0.366

1.34E+03	7.10E+01	1.673206582	0.80622497	0.74893	0.03674	-0.98
7.32E+03	4.70E+02	4.882804149	0.304339805	0.69351	0.04719	-0.16
1.72E+04	5.20E+02	18.74105327	0.552873349	0.23257	0.01339	0.211
1.44E+03	7.20E+01	2.913245123	0.431043419	0.71889	0.04151	0.614
2.88E+03	1.90E+02	1.049381125	0.069919918	0.89200	0.05929	0.218
3.20E+03	1.20E+02	5.748202339	0.261118364	0.70335	0.03585	0.514
4.09E+03	1.60E+02	7.229608105	0.255845526	0.57818	0.02756	0.193
3.58E+03	2.50E+02	0.710269654	0.033503112	0.84141	0.03947	0.461
2.99E+03	1.10E+02	2.891161733	0.123637455	0.77905	0.04193	0.231
4.15E+03	2.00E+02	1.016719146	0.026017426	0.84779	0.02502	0.255
1.13E+03	5.80E+01	1.086285981	0.145390754	0.88666	0.07499	1
1.14E+03	6.90E+01	4.29240435	2.147701693	0.83158	0.06840	NaN
2.86E+03	9.70E+01	1.281923952	0.036365479	0.78504	0.02107	0.249
3.33E+03	1.10E+02	1.690394457	0.053213569	0.77353	0.01797	0.256
1.54E+06	1.60E+04	17.22740671	0.327413924	0.15280	0.00252	-0.44
1.56E+06	1.40E+04	17.33338535	0.331386051	0.14681	0.00229	-0.57
1.54E+06	1.50E+04	19.28491649	0.365107882	0.07863	0.00063	0.131
1.55E+06	1.50E+04	19.02796347	0.360748278	0.09441	0.00184	-0.54
1.34E+06	1.10E+04	13.32446128	0.257301929	0.33300	0.00428	0.012
1.39E+06	1.10E+04	14.99003037	0.28762215	0.25269	0.00208	-0.38
1.37E+06	1.30E+04	13.3512869	0.263251382	0.31418	0.00421	-0.81
1.31E+06	1.50E+04	17.04897112	0.334278323	0.17037	0.00297	-0.81
1.42E+06	1.10E+04	18.65598339	0.353782953	0.09672	0.00089	-0.01
1.40E+06	1.90E+04	18.75629976	0.357444935	0.10068	0.00284	-0.48
1.49E+06	1.60E+04	16.73090212	0.332275361	0.17594	0.00554	-0.93
1.46E+06	1.70E+04	17.47979338	0.335656151	0.14644	0.00203	-0.58
1.44E+06	1.10E+04	17.12594207	0.335555543	0.16272	0.00406	-0.83
1.32E+06	1.20E+04	17.05844485	0.324340123	0.17414	0.00244	-0.48
1.37E+06	1.20E+04	18.31677986	0.348502668	0.11449	0.00100	-0.3
1.30E+06	1.40E+04	19.02929233	0.360486353	0.09175	0.00076	-0.06

1.38E+06	1.50E+04	17.29439618	0.334819881	0.14501	0.00206	-0.78
1.26E+06	1.10E+04	18.24402294	0.346468282	0.12319	0.00123	-0.26
1.44E+06	1.40E+04	17.52115758	0.332663462	0.13722	0.00256	-0.45
1.45E+06	2.50E+04	14.00153223	0.279737487	0.27823	0.00616	-0.62
1.35E+06	1.30E+04	17.08131905	0.325880996	0.15808	0.00148	-0.55
1.36E+06	1.40E+04	18.36440227	0.348926451	0.10805	0.00149	-0.26
1.39E+06	1.20E+04	18.09968177	0.342321072	0.11412	0.00192	-0.36
1.30E+06	1.20E+04	16.26066283	0.313493794	0.19681	0.00382	-0.65
1.33E+06	1.20E+04	15.5631151	0.300021368	0.21660	0.00448	-0.75
1.28E+06	1.20E+04	12.85475604	0.263909749	0.32643	0.00642	-0.73
1.34E+06	1.10E+04	14.92029503	0.293419187	0.24332	0.00410	-0.71
1.26E+06	1.50E+04	17.56962327	0.33268361	0.13900	0.00132	0.307
1.28E+06	1.40E+04	17.18137158	0.326867959	0.14919	0.00138	-0.31
1.31E+06	1.20E+04	15.6589576	0.299649177	0.21181	0.00174	-0.61
4.34E+04	4.10E+02	0.571367152	0.012213301	0.78903	0.01090	0.025
1.47E+04	2.50E+02	0.128539737	0.002742776	0.79345	0.00534	0.044
7.02E+04	5.30E+02	6.193426235	0.141801085	0.69821	0.01265	-0.05
1.81E+04	2.50E+02	0.216065081	0.00437033	0.79220	0.00386	0.142
5.16E+04	5.10E+02	12.07578988	0.250652166	0.62244	0.00886	0.468
3.81E+04	3.60E+02	5.42923817	0.108285937	0.71762	0.00761	0.488
2.23E+04	2.70E+02	6.622543503	0.143490177	0.69299	0.00891	0.473
3.34E+04	3.70E+02	6.875212727	0.145450292	0.68604	0.00846	0.524
3.73E+04	6.10E+02	13.72013891	0.502310241	0.56537	0.02873	0.001
3.77E+04	5.40E+02	7.326704357	0.28686208	0.68000	0.03368	-0.24
2.57E+04	3.40E+02	0.257086397	0.00523703	0.78833	0.00415	-0.04
8.05E+03	1.70E+02	7.4429911	0.188454677	0.65306	0.01307	0.528
1.99E+04	2.50E+02	9.232152488	0.225754671	0.65073	0.01448	0.48
2.73E+03	1.20E+02	0.665520327	0.021655594	0.76800	0.01576	0.114
9.81E+03	2.10E+02	0.08388899	0.001930901	0.79344	0.00509	-0.02
8.18E+03	1.60E+02	0.057066119	0.001236684	0.79396	0.00457	0.21

3.36E+04	3.50E+02	0.965989271	0.018870554	0.78381	0.00445	0.351
1.28E+04	2.00E+02	0.089836222	0.001849673	0.79472	0.00390	0.084
4.00E+04	4.40E+02	16.84980542	0.379764327	0.53584	0.01027	0.494
2.70E+04	4.10E+02	22.57396428	0.533478311	0.47986	0.01191	0.365
2.18E+04	2.80E+02	0.303265843	0.006066741	0.78856	0.00559	0.111
2.87E+04	5.20E+02	1.590146335	0.031490344	0.76692	0.01046	0.232
3.46E+04	3.70E+02	6.629303418	0.137103794	0.69403	0.00742	0.567
1.89E+04	2.60E+02	0.485832105	0.010842125	0.79608	0.01089	0.142
2.27E+04	3.40E+02	1.47969414	0.030029291	0.77073	0.00576	0.152
1.16E+03	1.10E+02	0.883382132	0.048719974	0.78524	0.04455	0.399
2.85E+04	3.40E+02	0.315052466	0.006224457	0.78915	0.00374	0.206
3.02E+04	3.30E+02	0.304186233	0.006123903	0.78663	0.00619	0.073
8.60E+03	1.90E+02	0.057367215	0.001292036	0.79124	0.00765	0.092
2.63E+04	3.20E+02	0.264575135	0.005287497	0.78653	0.00500	0.191
2.22E+04	2.70E+02	0.380559177	0.007558921	0.78916	0.00497	0.25
8.82E+03	1.70E+02	0.086047937	0.001868125	0.79163	0.00611	-0.07
1.03E+04	1.90E+02	0.070961019	0.001567207	0.79748	0.00503	0.098
2.81E+04	3.60E+02	0.272809204	0.005354478	0.79749	0.00466	0.131
3.89E+04	4.50E+02	21.013758	0.498527298	0.49332	0.01104	0.228
1.93E+04	3.00E+02	0.221361999	0.004750014	0.79210	0.00446	0.045
3.47E+04	3.40E+02	20.8229959	0.4653896	0.49445	0.01039	0.505
3.25E+04	4.00E+02	1.804769371	0.035700178	0.77428	0.00505	0.325
2.35E+04	3.70E+02	5.580818786	0.118711721	0.71459	0.00902	0.418
3.64E+04	3.60E+02	23.66335091	0.534233894	0.46250	0.00894	0.547
3.05E+04	3.20E+02	12.44495585	0.276345576	0.61624	0.01143	0.368
3.13E+04	3.50E+02	12.52719337	0.283356675	0.60910	0.01155	0.368
2.21E+03	1.30E+02	0.024720627	0.000855028	0.84925	0.00649	0.02
5.05E+03	1.70E+02	0.062283848	0.00167501	0.85740	0.00331	0.051
1.48E+03	7.40E+01	0.035773165	0.002161958	0.84718	0.00416	0.39
6.85E+03	2.10E+02	20.20732973	0.738190149	0.68217	0.02780	0.906

1.26E+04	2.90E+02	31.85926149	1.054228346	0.50661	0.02094	0.414
6.14E+04	7.20E+02	59.75498066	1.788165469	0.34817	0.01429	0.423
5.38E+04	1.20E+03	9.908416114	0.459707529	0.78986	0.04055	-0.01
1.19E+04	3.90E+02	3.406087409	0.09342801	0.80130	0.01614	0.341
9.33E+04	2.70E+03	60.19005006	1.378320922	0.24922	0.00865	0.208
1.04E+04	2.80E+02	0.26882878	0.007682212	0.85072	0.01110	0.009
3.82E+03	2.00E+02	0.0457218	0.001885772	0.87080	0.06144	0.02
4.31E+03	3.20E+02	0.081767588	0.003282522	0.90535	0.02727	-0.01
7.31E+03	6.90E+02	0.023898257	0.000967242	0.85193	0.01415	-0.09
2.09E+03	1.00E+02	0.349030847	0.014610205	0.88613	0.03175	0.081
1.26E+03	7.00E+01	0.895953374	0.050255292	0.84190	0.02238	-0.02
2.51E+03	2.20E+02	5.786766946	0.392595885	0.74937	0.05248	0.747
2.81E+03	3.10E+02	5.293576581	0.432551732	0.80869	0.08940	0.597
1.16E+05	3.60E+03	0.540371338	0.010248063	0.83528	0.01703	0.125
6.90E+03	2.40E+02	0.447236329	0.016285955	0.84943	0.03823	0.12
1.47E+04	6.30E+02	1.486024864	0.056034564	0.83925	0.01679	0.52
2.51E+03	1.50E+02	0.135783356	0.009751784	0.85708	0.04894	-0.03
1.16E+03	6.40E+01	1.408850927	0.183344408	0.90563	0.01730	0.295
9.08E+03	6.50E+02	0.209801825	0.005792222	0.81848	0.03199	0.144
1.60E+03	9.10E+01	0.168269596	0.011562632	0.85197	0.01805	0.279
2.12E+04	1.90E+03	0.09630779	0.003243055	0.85770	0.04534	0.047
2.39E+03	1.30E+02	0.322311834	0.014210676	0.84935	0.04442	0.185
2.77E+03	1.50E+02	0.562489751	0.022998736	0.84488	0.03092	0.247
2.72E+03	1.30E+02	0.622473567	0.021921611	0.87682	0.02571	0.248
1.43E+03	1.00E+02	1.169691458	0.06023088	0.81734	0.01876	0.428
1.68E+03	7.80E+01	0.024965889	0.001142704	0.85401	0.00484	-0.14
2.35E+03	2.10E+02	0.024434629	0.001217206	0.85241	0.00534	-0.02
3.65E+03	1.10E+02	0.037066033	0.000931941	0.85481	0.00535	0.146
2.05E+03	1.60E+02	0.025643926	0.001072129	0.85583	0.00462	0.031
1.39E+03	6.90E+01	0.016707239	0.001436682	0.85283	0.00304	0.339
1.13E+04	2.60E+02	0.101694018	0.002205196	0.84860	0.00502	0.065