GEOCHRONOLOGIC METHODS (Text in Data Repository)

U-Pb geochronologic analyses of zircon

U-Pb geochronology of zircons was conducted by laser ablation multicollector inductively coupled plasma mass spectrometry (LA-MC-ICPMS). The analyses involve ablation of zircon with a New Wave DUV193 Excimer laser (operating at a wavelength of 193 nm) using a spot diameter of 25 to 50 microns. The ablated material is carried in a mixture of argon (80%) and helium (20%) into the plasma source of a Micromass Isoprobe, which is equipped with a flight tube of sufficient width that U, Th, and Pb isotopes are measured simultaneously. All measurements are made in static mode, using Faraday detectors for ^{238}U, ^{232}Th, $^{208\text{-}206}Pb$, and an ion-counting channel for ^{204}Pb. Ion yields are 0.5-1.0 mv per ppm. Each analysis consists of one 20-second integration on peaks with the laser off (for backgrounds), 20 one-second integrations with the laser firing, and a 30 second delay to purge the previous sample and prepare for the next analysis. The ablation pit is ~15 microns in depth.

For each analysis, the errors in determining $^{206}Pb/^{238}U$ and $^{206}Pb/^{204}Pb$ result in a measurement error of ~1-2% (at 2-sigma level) in the $^{206}Pb/^{238}U$ age. The errors in measurement of $^{206}Pb/^{207}Pb$ and $^{206}Pb/^{204}Pb$ also result in ~1-2% (at 2-sigma level) uncertainty in age for grains that are >1.0 Ga, but are substantially larger for younger grains due to low intensity of the ^{207}Pb signal. For most analyses, the cross-over in precision of $^{206}Pb/^{238}U$ and $^{206}Pb/^{207}Pb$ ages occurs at 0.8-1.0 Ga.

Common Pb correction is accomplished by using the measured ^{204}Pb and assuming an initial Pb composition from Stacey and Kramers (1975) (with uncertainties of 1.0 for $^{206}Pb/^{204}Pb$ and 0.3 for $^{207}Pb/^{204}Pb$). Our measurement of ^{204}Pb is unaffected by the presence of ^{204}Hg because backgrounds are measured on peaks (thereby subtracting any background ^{204}Hg and

^{204}Pb), and because very little Hg is present in the argon gas.

Inter-element fractionation of Pb/U is generally ~20%, whereas fractionation of Pb isotopes is generally <5%. In-run analysis of fragments of a large zircon crystal (generally every fifth measurement) with known age of 564 ± 4 Ma (2-sigma error) is used to correct for this fractionation. The uncertainty resulting from the calibration correction is generally 2-3% (2-sigma) for both ^{206}Pb/^{207}Pb and ^{206}Pb/^{238}U ages. Figure DR1 shows the ^{206}Pb/^{238}U age of all standards analyzed during this study, separated according to beam size (50 microns for detrital samples, 25 microns for plutonic samples). Also shown are the average uncertainties for the calibration correction, which are determined as the standard error of the mean (at 2-sigma) for the six standards that are closest to each unknown (calculated as a sliding window).

The analytical data are reported in Tables DR1 and DR2. Uncertainties shown in these tables are at the 1-sigma level, and include only measurement errors.

Determining the ages of plutonic samples has been challenging because most analyses are discordant, with ages scattered between early Paleozoic and mid-Proterozoic (Figs. 5-8). We have addressed these complexities by utilizing CL images to locate laser pits within homogeneous portions of crystals, and by analyzing both inner and outer portions of the crystals. Discrete cores or rims were found in only a small portion of the zircon grains, with most displaying typical oscillatory igneous zonation. The CL images were also used to search for zircon overgrowths of Tertiary age, which are common in granitic rocks in the higher Himalaya (R. Parrish, written commun., 2005), but no such rims were found.

Fortunately, all of the plutonic samples yield at least several analyses that overlap with each other and with concordia, and none of the analyses record complications from Tertiary zircon growth. The reported ages for the plutonic samples are accordingly determined from the

weighted mean (from Ludwig, 2001) of the $^{206}Pb/^{238}U$ ages of the concordant and overlapping analyses. Two uncertainties are reported on these plots. The smaller uncertainty is based on the scatter and precision of the set of concordant $^{206}Pb/^{238}U$ ages, weighted according to their measurement errors (shown at 1-sigma). The larger uncertainty, which is the reported uncertainty of the age, is determined as the quadratic sum of the weighted mean error plus the total systematic error for the set of analyses. The systematic error, which includes contributions from the standard calibration, age of the calibration standard, composition of common Pb, and ^{238}U decay constant, is generally ~2-3% (2-sigma), depending largely on beam size (Fig. DR1).

For the detrital zircon suites, age interpretations are based on $^{206}Pb/^{238}U$ ages for <800 Ma grains and on $^{206}Pb/^{207}Pb$ ages for >800 Ma grains. This division at 800 Ma results from the increasing uncertainty of $^{206}Pb/^{238}U$ ages and the decreasing uncertainty of $^{206}Pb/^{207}Pb$ ages as a function of age, and (as described in more detail below) also provides a useful means of discriminating Precambrian grains that are discordant due to Pb loss (or young zircon growth) from Paleozoic grains that are discordant due to inheritance. Analyses that are >30% discordant (by comparison of $^{206}Pb/^{238}U$ and $^{206}Pb/^{207}Pb$ ages) or >5% reverse discordant (in italics in Table DR2) are not considered further.

The resulting interpreted ages for detrital analyses are shown on relative age-probability diagrams (from Ludwig, 2001). These diagrams show each age and its uncertainty (for measurement error only) as a normal distribution, and sum all ages from a sample into a single curve.

Th-Pb geochronology of monazite inclusions in garnet crystals

Monazite inclusions in garnet grains were analyzed for Th-Pb isotopes by laser-ablation ICPMS. The monazite inclusions, generally 10-20 microns in diameter, were analyzed from

within separated garnet crystals of 0.5 to 5.0 mm in diameter. The position of each inclusion relative to the interior or rim of the host garnet grain is indicated in Table DR3. Inclusions were identified and mapped with a LINK EDS detector attached to a Cameca Camscan Series II SEM. The analytical methodology for garnets resembles that for zircons except that (1) the laser beam diameter is 8 to 10 microns, (2) ages are calculated on the basis of the measured $^{208}Pb/^{232}Th$ and $^{208}Pb/^{204}Pb$, (3) common Pb composition is adapted from Stacey and Kramers (1975) with an uncertainty of 2.0 for $^{208}Pb/^{204}Pb$, and (4) fractionation is monitored by frequent (every fourth) analysis of standard monazite from the Wissahickon Formation in Delaware (sample # 44069), which was provided by J. Aleinikoff (US Geological Survey). This monazite has been dated by ID-TIMS at 424 ± 1 Ma (2-sigma) by S. Kamo at the University of Toronto (written communication, 2003). Uncertainties of the reported ages are based on the quadratic sum of measurement errors (from $^{208}Pb/^{232}Th$ and $^{208}Pb/^{204}Pb$) and systematic errors (from calibration correction, age of standard, decay constant of ^{232}Th, and composition of common Pb). Unfortunately, compositional analyses of the analyzed monazite inclusions are not available.

REFERENCES CITED

Ludwig, K.R., 2001, Isoplot/Ex, rev. 2.49. Berkeley Geochronology Center, Special Publication 1a, 56 p.

Stacey, J.S., and Kramers, J.D., 1975, Approximation of terrestrial lead isotope evolution by a two-stage model: Earth and Planetary Science Letters, v. 26, p. 207-221.

Figure DR1. Plot of $^{208}Pb/^{232}U$ ages of standards analyzed during this study. Errors of individual analyses are shown at the 1-sigma level. Dashed lines show average standard error of the mean (at 2-sigma) for a sliding window with a width of six analyses.

Table DR1. U-Pb (zircon) geochronologic analyses by Laser-Ablation Multicollector ICP Mass Spectrometery

			Isotopic ratios					Apparent ages (Ma)					
U (ppm)	$^{206}Pb/^{204}Pb$	U/Th	$^{207}Pb^*/^{235}U$	± (%)	$^{206}Pb^*/^{238}U$	± (%)	error corr.	$^{206}Pb^*/^{238}U$	± (Ma)	$^{207}Pb^*/^{235}U$	± (Ma)	$^{206}Pb^*/^{207}Pb^*$	± (Ma)
Bhimphedi Dike													
29	1590	3	0.51621	4.57	0.07442	2.34	0.51	462.7	11.2	422.6	23.7	209	45
664	2399	57	0.63845	4.66	0.07729	3.50	0.75	479.9	17.4	501.3	29.8	600	33
114	6418	28	0.60543	3.48	0.07695	0.46	0.13	477.9	2.3	480.7	21.1	494	38
133	8063	12	0.62601	2.76	0.07615	0.68	0.25	473.1	3.3	493.6	17.4	590	29
154	2184	28	0.56192	2.22	0.07624	1.26	0.57	473.6	6.2	452.8	12.6	348	21
154	6026	15	0.94609	3.77	0.10346	1.04	0.28	634.6	6.9	676.1	35.6	817	38
294	11196	27	0.96374	2.80	0.10181	0.98	0.35	625.0	6.4	685.2	27.0	888	27
131	3199	18	0.58776	7.47	0.07698	1.12	0.15	478.1	5.5	469.4	43.6	427	82
97	3988	46	1.48649	6.74	0.11286	1.05	0.16	689.3	7.6	924.9	96.9	1538	63
167	9518	3	1.52272	3.76	0.15057	0.94	0.25	904.1	9.1	939.6	56.5	1024	37
Mandu Granite													
51	4605	6	0.96255	2.20	0.10905	1.14	0.52	667.2	8.0	684.6	21.3	742	20
112	5426	16	0.62678	2.18	0.07807	0.58	0.27	484.6	2.9	494.1	13.8	538	23
121	11966	23	2.09717	3.60	0.14021	1.68	0.47	845.8	15.2	1147.9	73.8	1774	29
63	4920	1	1.31232	1.55	0.13849	0.79	0.51	836.1	7.0	851.1	20.4	890	14
144	18410	12	1.99789	4.28	0.18302	0.56	0.13	1083.5	6.6	1114.8	83.3	1176	42
23	4550	2	1.76768	2.56	0.17336	0.56	0.22	1030.6	6.3	1033.7	44.9	1040	25
16	994	2	1.75464	6.71	0.16298	0.98	0.15	973.3	10.3	1028.9	113.0	1149	66
48	3806	4	2.58393	2.36	0.21125	1.36	0.58	1235.5	18.5	1296.1	60.1	1398	19
200	12295	13	1.68754	3.05	0.16361	0.75	0.25	976.8	7.9	1003.8	51.0	1063	30
91	3037	20	0.70693	3.34	0.08729	2.06	0.62	539.5	11.6	542.9	23.7	557	29
128	7393	5	1.58055	1.93	0.15389	1.04	0.54	922.7	10.3	962.6	30.6	1055	16
88	3996	13	1.11116	4.62	0.12028	1.00	0.22	732.2	7.8	758.7	50.9	838	47
478	17741	51	0.88903	2.33	0.09904	0.82	0.35	608.8	5.2	645.9	20.8	778	23
121	3498	30	0.60569	1.77	0.07771	0.98	0.55	482.4	4.9	480.8	10.8	473	16
101	4263	6	1.01374	1.61	0.11235	0.93	0.58	686.4	6.8	710.8	16.5	789	14
Mandu Dike													
10	2029	474	0.61559	5.85	0.07643	1.38	0.24	474.8	6.8	487.1	35.9	545	62
2	344	383	0.56859	10.68	0.07720	3.52	0.33	479.4	17.5	457.1	59.9	346	114
33	649	75	0.68130	4.52	0.07653	1.80	0.40	475.4	8.9	527.6	30.8	760	44
35	692	92	0.66310	2.86	0.07584	1.05	0.37	471.3	5.1	516.5	19.0	722	28
44	464	25	0.61017	5.97	0.07406	3.94	0.66	460.5	18.8	483.7	36.3	595	49
25	527	80	0.56575	2.51	0.07637	1.48	0.59	474.4	7.3	455.3	14.3	360	23
45	864	79	0.56895	6.78	0.07535	1.91	0.28	468.3	9.3	457.3	38.4	403	73
Agra Granite													
35	4595	NA	2.01488	8.77	0.17595	4.03	0.46	1044.8	45.6	1120.5	165.1	1271	76
97	8663	NA	0.63945	4.03	0.07881	1.64	0.41	489.0	8.3	502.0	25.8	562	40
175	9695	NA	0.60131	3.66	0.07677	1.79	0.49	476.8	8.8	478.1	22.1	484	35
168	1898	NA	0.62640	4.40	0.07714	2.97	0.68	479.0	14.7	493.8	27.6	563	35
154	4792	NA	0.60834	4.34	0.07717	2.39	0.55	479.2	11.9	482.5	26.5	498	40
102	10283	NA	0.94545	5.25	0.10590	2.71	0.52	648.9	18.5	675.7	49.1	766	47
167	23449	NA	8.71539	3.47	0.38082	1.66	0.48	2080.1	40.6	2308.7	268.3	2518	26
126	4677	NA	10.62253	3.90	0.45097	2.47	0.63	2399.6	71.5	2490.7	352.1	2566	25
47	5013	NA	0.71452	6.03	0.08061	1.17	0.19	499.8	6.1	547.4	42.9	751	63

56	2199	NA	0.61026	3.53	0.07733	0.88	0.25	480.1	4.4	483.7	21.7	501	38
67	2270	NA	0.62220	3.73	0.07690	1.32	0.35	477.6	6.6	491.2	23.3	555	38
84	1607	NA	1.09435	5.13	0.09936	2.55	0.50	610.7	16.3	750.6	55.4	1194	44
100	1315	NA	1.17100	6.86	0.11740	6.02	0.88	716.2	30.1	736.2	60.3	798	43
195	2646	NA	1.11994	4.32	0.11716	3.00	0.69	714.2	22.6	762.9	47.9	908	32
142	1658	NA	0.72790	3.43	0.08891	1.25	0.36	549.1	7.2	555.3	25.1	581	35
58	6339	NA	0.78883	4.62	0.09270	2.48	0.54	571.5	14.8	590.5	36.3	664	42
43	4512	NA	0.65323	5.77	0.07951	2.88	0.50	493.2	14.7	510.5	37.5	589	54
82	4172	NA	0.56989	4.86	0.07523	2.66	0.55	467.6	12.9	457.9	27.8	410	46
85	3405	NA	0.60440	3.86	0.07782	0.66	0.17	483.1	3.3	480.0	23.4	465	42
114	19118	NA	0.61050	3.78	0.07727	1.31	0.35	479.8	6.5	483.9	23.1	503	39
100	4380	NA	0.57211	3.54	0.07631	0.90	0.25	474.1	4.4	459.4	20.4	387	38
127	5243	NA	0.62459	3.81	0.07775	1.67	0.44	482.7	8.4	492.7	23.9	540	37

All errors are reported at the 1-sigma level.
U concentration and U/Th have uncertainties of ~25%.
Decay constants: $^{235}U = 9.8485 \times 10^{-10}$, $^{238}U = 1.55125 \times 10^{-10}$, $^{238}U/^{235}U = 137.88$.
Isotope ratios are corrected for Pb/U fractionation by comparison with standard zircon with an age of 564 ± 4 Ma.
Initial Pb composition interpreted from Stacey and Kramers (1975), with uncertainties of 1.0 for $^{206}Pb/^{204}Pb$ and 0.3 for $^{207}Pb/^{204}Pb$.

Table DR2. U-Pb geochronologic analyses by Laser-Ablation Multicollector ICP Mass Spectrometery

	Isotopic ratios							Apparent ages (Ma)								
U (ppm)	$^{206}Pb/^{204}Pb$	U/Th	$^{207}Pb/^{235}U$	± (%)	$^{206}Pb/^{238}U$	± (%)	error corr.	$^{206}Pb/^{238}U$	± (Ma)	$^{207}Pb/^{235}U$	± (Ma)	$^{206}Pb/^{207}Pb$	± (Ma)	Conc	**Ages used**	**± (Ma)**
Tistung 1																
5	17262	327	0.61879	13.68	0.08029	1.06	0.08	**498**	**5**	489	83	448	152	1.11	**498**	**5**
99	10879	2	0.65442	6.93	0.07678	1.89	0.27	**477**	**9**	511	45	668	71	0.71	**477**	**9**
12	2068	1	0.97196	12.24	0.10482	8.17	0.67	**643**	**55**	690	114	846	95	0.76	**643**	**55**
34	4987	1	0.97617	6.91	0.11106	1.20	0.17	**679**	**9**	692	66	733	72	0.93	**679**	**9**
35	3022	19	1.10816	4.43	0.12007	3.08	0.70	**731**	**24**	757	49	836	33	0.87	**731**	**24**
23	3229	0	1.15818	13.87	0.12039	2.65	0.19	**733**	**21**	781	151	922	140	0.79	**733**	**21**
137	17262	3	1.09046	1.91	0.12269	1.39	0.73	**746**	**11**	749	21	757	14	0.99	**746**	**11**
80	*18188*	*10*	*1.34240*	*11.06*	*0.14764*	*3.40*	*0.31*	*888*	*32*	*864*	*141*	*805*	*110*	*1.10*		
38	6999	56	1.40597	1.70	0.14224	0.92	0.54	857	8	892	24	**977**	**15**	0.88	**977**	**15**
4	850	1	1.68431	10.95	0.16472	1.54	0.14	983	16	1003	172	**1046**	**109**	0.94	**1046**	**109**
6	1897	2	1.92003	12.21	0.18455	4.59	0.38	1092	54	1088	214	**1081**	**113**	1.01	**1081**	**113**
148	8465	117	1.58194	7.58	0.15039	7.23	0.95	903	70	963	115	**1103**	**23**	0.82	**1103**	**23**
4	2554	2	1.85528	11.20	0.17542	1.52	0.14	1042	17	1065	192	**1114**	**111**	0.94	**1114**	**111**
15	19258	1	2.15351	7.15	0.20059	2.13	0.30	1178	28	1166	145	**1143**	**68**	1.03	**1143**	**68**
11	3984	132	2.13441	3.43	0.19795	1.85	0.54	1164	24	1160	72	**1152**	**29**	1.01	**1152**	**29**
51	6524	1	1.96417	1.10	0.17856	0.75	0.68	1059	9	1103	22	**1192**	**8**	0.89	**1192**	**8**
48	6913	12	1.87510	3.53	0.16762	2.01	0.57	999	22	1072	65	**1225**	**29**	0.82	**1225**	**29**
35	945	2	1.68637	3.59	0.14927	1.72	0.48	897	17	1003	60	**1244**	**31**	0.72	**1244**	**31**
14	*6853*	*0*	*1.20627*	*6.56*	*0.10655*	*3.40*	*0.52*	*653*	*23*	*804*	*77*	*1248*	*55*	*0.52*		
48	146961	13	1.90180	3.53	0.16404	2.01	0.57	979	21	1082	66	**1294**	**28**	0.76	**1294**	**28**
85	2446	3	2.41004	5.18	0.20192	1.31	0.25	1186	17	1246	119	**1351**	**48**	0.88	**1351**	**48**
1	6238	149	2.24581	15.56	0.18414	4.58	0.29	1090	54	1196	304	**1392**	**143**	0.78	**1392**	**143**
30	13275	53	3.25891	2.45	0.24449	1.04	0.42	1410	16	1471	78	**1561**	**21**	0.90	**1561**	**21**
29	7053	3	4.58616	2.57	0.30983	1.94	0.75	1740	39	1747	113	**1755**	**15**	0.99	**1755**	**15**
56	20426	4	4.75321	4.19	0.31354	3.24	0.77	1758	65	1777	184	**1799**	**24**	0.98	**1799**	**24**
57	*12451*	*13*	*3.13318*	*2.58*	*0.20554*	*1.86*	*0.72*	*1205*	*25*	*1441*	*79*	*1809*	*16*	*0.67*		
34	18188	368	4.70501	7.81	0.30468	4.61	0.59	1714	90	1768	318	**1832**	**57**	0.94	**1832**	**57**
92	*1675*	*566*	*3.29938*	*5.57*	*0.21158*	*2.75*	*0.49*	*1237*	*37*	*1481*	*171*	*1850*	*44*	*0.67*		
81	*879*	*17*	*2.66372*	*19.27*	*0.12711*	*9.60*	*0.50*	*771*	*78*	*1319*	*421*	*2368*	*143*	*0.33*		
103	304380	65	10.45245	1.65	0.46158	1.31	0.79	2447	39	2476	162	**2500**	**8**	0.98	**2500**	**8**
32	4636	2	9.35427	3.49	0.40812	3.40	0.98	2206	89	2373	287	**2520**	**6**	0.88	**2520**	**6**

12	32141	2	11.77229	1.34	0.48671	1.22	0.91	2556	38	2587	149	**2610**	**5**	0.98	**2610**	**5**
2	*6625*	*48*	*19.02094*	*18.76*	*0.60556*	*2.09*	*0.11*	*3052*	*81*	*3043*	*1543*	*3037*	*149*	*1.01*		
39	10596	24	22.40397	1.76	0.62939	1.64	0.93	3147	66	3201	338	**3236**	**5**	0.97	**3236**	**5**
Tistung 2																
12	2093	10	0.58100	15.00	0.07638	2.99	0.20	**475**	**15**	465	85	419	164	1.13	**475**	**15**
32	12153	5	0.62355	4.55	0.07901	1.19	0.26	**490**	**6**	492	28	501	48	0.98	**490**	**6**
6	3948	15	0.69954	37.68	0.08141	3.30	0.09	**505**	**17**	539	238	685	401	0.74	**505**	**17**
12	3309	1	0.68489	23.96	0.08513	1.66	0.07	**527**	**9**	530	154	543	261	0.97	**527**	**9**
547	4908	29	0.69398	2.29	0.08524	1.81	0.79	**527**	**10**	535	16	569	15	0.93	**527**	**10**
8	3307	15	0.68214	22.21	0.08569	1.46	0.07	**530**	**8**	528	143	520	243	1.02	**530**	**8**
10	9047	9	0.65774	18.74	0.08593	1.20	0.06	**531**	**7**	513	118	433	208	1.23	**531**	**7**
228	1607	24	0.68532	10.37	0.08601	2.43	0.23	**532**	**13**	530	70	522	111	1.02	**532**	**13**
33	904	15	0.70615	7.41	0.08658	1.68	0.23	**535**	**9**	542	52	573	78	0.93	**535**	**9**
1457	149775	57	0.78381	1.62	0.08835	1.23	0.76	**546**	**7**	588	13	753	11	0.73	**546**	**7**
251	23138	18	0.80215	0.87	0.09073	0.44	0.51	**560**	**3**	598	7	746	8	0.75	**560**	**3**
728	9752	0	0.91240	4.05	0.09214	3.79	0.94	**568**	**23**	658	37	981	15	0.58	**568**	**23**
262	46972	19	0.83354	1.31	0.09428	1.26	0.96	**581**	**8**	616	11	746	4	0.78	**581**	**8**
288	2766	22	0.85714	6.89	0.09663	4.10	0.60	**595**	**25**	629	58	753	58	0.79	**595**	**25**
102	1288	97	1.13902	8.38	0.10418	4.28	0.51	**639**	**29**	772	93	1180	71	0.54	**639**	**29**
17	3955	1	0.93682	4.99	0.10482	2.26	0.45	**643**	**15**	671	46	768	47	0.84	**643**	**15**
59	6698	4	1.01024	3.07	0.10976	1.01	0.33	**671**	**7**	709	31	830	30	0.81	**671**	**7**
96	7207	11	1.09865	1.51	0.11405	0.43	0.29	**696**	**3**	753	17	924	15	0.75	**696**	**3**
77	7245	63	1.13278	2.75	0.12095	1.48	0.54	**736**	**12**	769	31	866	24	0.85	**736**	**12**
11	3172	2	1.12887	7.09	0.12943	2.88	0.41	**785**	**24**	767	78	717	69	1.09	**785**	**24**
60	17200	121	1.32136	1.64	0.13026	0.71	0.43	**789**	**6**	855	22	1030	15	0.77	**789**	**6**
67	*487*	*15*	*1.75846*	*6.42*	*0.19348*	*3.67*	*0.57*	*1140*	*46*	*1030*	*109*	*804*	*55*	*1.42*		
16	21691	14	1.46912	5.34	0.14300	1.77	0.33	862	16	918	77	**1055**	**51**	0.82	**1055**	**51**
16	4347	2	1.68622	3.26	0.16332	1.28	0.39	975	13	1003	54	**1065**	**30**	0.92	**1065**	**30**
137	22424	42	1.81848	5.56	0.17523	1.33	0.24	1041	15	1052	98	**1076**	**54**	0.97	**1076**	**54**
26	1125	37	1.95232	7.31	0.18788	2.88	0.39	1110	35	1099	135	**1078**	**67**	1.03	**1078**	**67**
69	4196	3	1.97472	2.68	0.18856	0.63	0.23	1114	8	1107	52	**1094**	**26**	1.02	**1094**	**26**
8	1925	1	1.76857	7.77	0.16863	1.13	0.15	1005	12	1034	131	**1097**	**77**	0.92	**1097**	**77**
185	99941	7	1.79001	1.60	0.16955	1.19	0.75	1010	13	1042	29	**1110**	**11**	0.91	**1110**	**11**
185	7091	44	1.57430	2.30	0.14884	1.88	0.82	894	18	960	36	**1114**	**13**	0.80	**1114**	**13**
20	9083	1	2.16547	2.36	0.20362	0.85	0.36	1195	11	1170	51	**1125**	**22**	1.06	**1125**	**22**
162	11227	7	1.78394	1.58	0.16757	1.24	0.79	999	13	1040	28	**1127**	**10**	0.89	**1127**	**10**
109	10489	27	1.88083	3.48	0.17600	2.11	0.61	1045	24	1074	64	**1134**	**28**	0.92	**1134**	**28**

37	6157	4	1.91007	2.63	0.17844	1.48	0.56	1058	17	1085	50	**1138**	**22**	0.93	**1138**	**22**
144	*37623*	*21*	*1.37938*	*5.38*	*0.12881*	*5.28*	*0.98*	*781*	*44*	*880*	*73*	*1138*	*10*	*0.69*		
39	4778	2	1.79503	2.30	0.16745	1.66	0.72	998	18	1044	41	**1140**	**16**	0.88	**1140**	**16**
224	49144	38	1.47834	1.90	0.13696	1.53	0.81	827	13	922	28	**1154**	**11**	0.72	**1154**	**11**
7	1200	1	1.86718	7.00	0.17265	1.09	0.16	1027	12	1070	125	**1158**	**69**	0.89	**1158**	**69**
53	1290	41	1.81848	9.38	0.16800	2.18	0.23	1001	24	1052	160	**1160**	**90**	0.86	**1160**	**90**
265	5377	11	2.04033	1.05	0.18759	1.01	0.96	1108	12	1129	22	**1169**	**3**	0.95	**1169**	**3**
371	44481	1	2.12589	4.70	0.19479	4.55	0.97	1147	57	1157	97	**1176**	**12**	0.98	**1176**	**12**
287	12177	37	1.71848	3.68	0.15644	1.59	0.43	937	16	1015	62	**1189**	**33**	0.79	**1189**	**33**
20	28109	9	1.65906	3.49	0.15051	1.20	0.34	904	12	993	57	**1196**	**32**	0.76	**1196**	**32**
22	8769	1	2.05769	2.28	0.18465	0.80	0.35	1092	10	1135	47	**1217**	**21**	0.90	**1217**	**21**
63	9065	3	2.27933	2.77	0.20373	0.90	0.33	1195	12	1206	62	**1225**	**26**	0.98	**1225**	**26**
24	3099	3	2.00548	6.52	0.17902	2.42	0.37	1062	28	1117	125	**1227**	**59**	0.87	**1227**	**59**
10	927	1	2.32055	3.71	0.20649	1.61	0.43	1210	21	1219	84	**1234**	**33**	0.98	**1234**	**33**
28	6263	4	1.97419	2.35	0.17567	1.34	0.57	1043	15	1107	46	**1234**	**19**	0.85	**1234**	**19**
66	529	14	2.09809	12.03	0.18619	7.81	0.65	1101	93	1148	229	**1239**	**90**	0.89	**1239**	**90**
348	*15447*	*28*	*1.62091*	*3.14*	*0.14263*	*1.59*	*0.51*	*860*	*15*	*978*	*50*	*1256*	*26*	*0.68*		
35	12259	14	1.99131	2.95	0.17493	2.36	0.80	1039	27	1113	58	**1259**	**17**	0.83	**1259**	**17**
945	36037	15	1.76250	3.99	0.15274	3.83	0.96	916	38	1032	69	**1285**	**11**	0.71	**1285**	**11**
493	22580	53	1.91376	1.70	0.16565	1.15	0.67	988	12	1086	33	**1288**	**12**	0.77	**1288**	**12**
96	15708	45	2.20807	1.77	0.19079	1.29	0.73	1126	16	1184	39	**1291**	**12**	0.87	**1291**	**12**
169	15979	21	2.47296	2.63	0.21142	1.17	0.44	1236	16	1264	64	**1312**	**23**	0.94	**1312**	**23**
98	2608	7	1.88144	3.03	0.16082	1.23	0.41	961	13	1075	56	**1312**	**27**	0.73	**1312**	**27**
17	5531	3	2.39524	3.78	0.20281	1.16	0.31	1190	15	1241	88	**1330**	**35**	0.90	**1330**	**35**
52	3810	20	2.17508	2.23	0.18395	1.51	0.68	1088	18	1173	48	**1333**	**16**	0.82	**1333**	**16**
229	18519	2	2.57584	1.65	0.21636	1.06	0.64	1263	15	1294	42	**1346**	**12**	0.94	**1346**	**12**
16	5956	3	2.37782	3.08	0.19944	0.81	0.26	1172	10	1236	72	**1349**	**29**	0.87	**1349**	**29**
256	2163	6	2.04935	3.03	0.16803	1.33	0.44	1001	14	1132	61	**1392**	**26**	0.72	**1392**	**26**
25	*13497*	*1*	*2.09997*	*3.09*	*0.16558*	*2.63*	*0.85*	*988*	*28*	*1149*	*64*	*1467*	*15*	*0.67*		
202	*1091*	*27*	*1.67425*	*2.41*	*0.13051*	*1.79*	*0.74*	*791*	*15*	*999*	*40*	*1489*	*15*	*0.53*		
88	4312	6	2.84459	4.14	0.21592	2.99	0.72	1260	42	1367	113	**1539**	**27**	0.82	**1539**	**27**
226	49856	6	3.54856	1.80	0.25816	1.35	0.75	1480	22	1538	63	**1618**	**11**	0.91	**1618**	**11**
23	*563*	*29*	*1.96579*	*7.41*	*0.14111*	*2.46*	*0.33*	*851*	*22*	*1104*	*138*	*1643*	*65*	*0.52*		
151	1001	1	3.98479	7.21	0.28034	3.63	0.50	1593	65	1631	256	**1681**	**58**	0.95	**1681**	**58**
43	2712	4	3.64524	6.23	0.25581	3.59	0.58	1468	59	1560	208	**1685**	**47**	0.87	**1685**	**47**
102	*881*	*37*	*2.57894*	*2.54*	*0.17823*	*1.29*	*0.51*	*1057*	*15*	*1295*	*64*	*1713*	*20*	*0.62*		
91	*10968*	*22*	*2.08889*	*1.05*	*0.14349*	*0.75*	*0.72*	*864*	*7*	*1145*	*22*	*1724*	*7*	*0.50*		

46	47034	8	3.89742	3.01	0.26672	1.67	0.55	1524	29	1613	113	**1731**	**23**	0.88	**1731**	**23**
210	11100	7	3.54705	2.73	0.24260	1.91	0.70	1400	30	1538	94	**1732**	**18**	0.81	**1732**	**18**
98	*4274*	*34*	*2.27078*	*3.38*	*0.15486*	*1.96*	*0.58*	*928*	*20*	*1203*	*75*	*1738*	*25*	*0.53*		
36	2950	4	3.31365	4.64	0.22291	1.30	0.28	1297	19	1484	145	**1763**	**41**	0.74	**1763**	**41**
91	8912	7	3.95813	1.62	0.26430	1.26	0.78	1512	21	1626	63	**1776**	**9**	0.85	**1776**	**9**
134	*2229*	*20*	*3.07567*	*2.16*	*0.20432*	*1.64*	*0.76*	*1199*	*22*	*1427*	*65*	*1786*	*13*	*0.67*		
51	2416	6	4.76250	5.69	0.31359	3.76	0.66	1758	76	1778	243	**1802**	**39**	0.98	**1802**	**39**
21	*10077*	*5*	*1.94060*	*6.54*	*0.12296*	*5.71*	*0.87*	*748*	*45*	*1095*	*121*	*1872*	*29*	*0.40*		
8	4831	7	5.21737	2.06	0.32622	1.23	0.60	1820	26	1856	104	**1895**	**15**	0.96	**1895**	**15**
33	1452	11	4.92581	2.01	0.29376	1.30	0.65	1660	25	1807	96	**1980**	**14**	0.84	**1980**	**14**
23	5339	2	5.66700	1.27	0.33057	0.83	0.65	1841	18	1926	71	**2019**	**9**	0.91	**2019**	**9**
10	15064	5	5.06610	2.40	0.28344	0.63	0.26	1609	12	1830	117	**2093**	**20**	0.77	**2093**	**20**
155	13901	8	6.11692	1.70	0.34012	1.32	0.78	1887	29	1993	100	**2104**	**9**	0.90	**2104**	**9**
90	*1546*	*13*	*4.79623*	*2.70*	*0.25435*	*1.79*	*0.66*	*1461*	*29*	*1784*	*124*	*2187*	*18*	*0.67*		
21	6676	7	7.41881	3.37	0.35231	3.08	0.91	1946	69	2163	226	**2377**	**12**	0.82	**2377**	**12**
7	14814	3	9.31757	1.82	0.42917	1.13	0.63	2302	31	2370	159	**2429**	**12**	0.95	**2429**	**12**
2	*605*	*4*	*5.68368*	*4.88*	*0.26004*	*4.71*	*0.97*	*1490*	*78*	*1929*	*248*	*2440*	*11*	*0.61*		
41	13530	11	9.01885	1.95	0.36427	1.91	0.98	2002	45	2340	165	**2649**	**3**	0.76	**2649**	**3**
29	9738	17	12.10399	4.08	0.48727	3.73	0.91	2559	116	2612	408	**2654**	**14**	0.96	**2654**	**14**
30	*5714*	*16*	*7.67620*	*12.07*	*0.29209*	*11.53*	*0.96*	*1652*	*213*	*2194*	*666*	*2747*	*30*	*0.60*		
32	3310	11	10.70545	2.10	0.40209	1.80	0.85	2179	46	2498	206	**2769**	**9**	0.79	**2769**	**9**
113	8420	1	14.34073	3.86	0.51463	3.20	0.83	2676	105	2773	448	**2843**	**18**	0.94	**2843**	**18**
7	1491	8	10.48394	2.61	0.37403	2.20	0.84	2048	53	2479	246	**2853**	**11**	0.72	**2853**	**11**
35	*1989*	*15*	*9.73594*	*3.80*	*0.34485*	*3.47*	*0.91*	*1910*	*77*	*2410*	*320*	*2865*	*13*	*0.67*		
9	8172	2	17.24704	2.35	0.58175	2.26	0.96	2956	84	2949	346	**2944**	**5**	1.00	**2944**	**5**
Jurikhet																
72	22985	6	0.88728	3.14	0.10114	1.46	0.47	**621**	**10**	645	28	729	29	0.85	**621**	**10**
33	11153	5	0.89033	4.38	0.10261	1.36	0.31	**630**	**9**	647	39	706	44	0.89	**630**	**9**
67	20324	10	0.94790	2.71	0.10664	1.10	0.40	**653**	**8**	677	26	757	26	0.86	**653**	**8**
238	80519	10	0.99476	2.76	0.11173	1.17	0.42	**683**	**8**	701	28	761	26	0.90	**683**	**8**
57	19693	16	1.02526	1.74	0.11625	0.40	0.23	**709**	**3**	717	18	740	18	0.96	**709**	**3**
93	49781	4	1.10431	2.51	0.11780	1.17	0.47	**718**	**9**	755	28	868	23	0.83	**718**	**9**
95	20316	15	1.07210	4.09	0.11820	1.66	0.41	**720**	**13**	740	44	800	39	0.90	**720**	**13**
51	14068	7	1.13375	2.72	0.12437	1.04	0.38	**756**	**8**	770	31	810	26	0.93	**756**	**8**
122	71748	8	1.13028	2.36	0.12504	1.05	0.44	**759**	**8**	768	27	792	22	0.96	**759**	**8**
121	126768	8	1.17593	2.43	0.12643	1.07	0.44	**767**	**9**	789	29	852	23	0.90	**767**	**9**
230	21293	6	1.25020	2.37	0.13362	1.16	0.49	808	10	823	30	**864**	**21**	0.94	**864**	**21**

240	19304	17	1.05183	2.35	0.10836	1.16	0.50	663	8	730	25	**940**	**21**	0.71	**940**	**21**
51	12796	9	1.39609	2.17	0.14347	1.41	0.65	864	13	887	30	**945**	**17**	0.91	**945**	**17**
212	48585	7	1.47064	2.30	0.15077	1.09	0.48	905	11	918	34	**950**	**21**	0.95	**950**	**21**
18	4740	1	1.62751	6.82	0.16669	3.47	0.51	994	37	981	107	**952**	**60**	1.04	**952**	**60**
22	7092	1	1.51144	4.85	0.15466	1.97	0.41	927	20	935	72	**954**	**45**	0.97	**954**	**45**
189	35045	7	1.55541	2.30	0.15878	1.10	0.48	950	11	953	36	**959**	**21**	0.99	**959**	**21**
487	78932	37	1.59546	2.31	0.16201	1.15	0.50	968	12	968	37	**970**	**21**	1.00	**970**	**21**
7	3007	2	1.62042	5.36	0.16452	0.64	0.12	982	7	978	85	**970**	**54**	1.01	**970**	**54**
51	14796	21	1.53327	1.49	0.15382	0.45	0.30	922	4	944	23	**994**	**14**	0.93	**994**	**14**
20	6649	4	1.63273	4.25	0.16342	1.27	0.30	976	13	983	68	**999**	**41**	0.98	**999**	**41**
836	263722	26	1.62939	2.28	0.16271	1.10	0.48	972	12	982	37	**1004**	**20**	0.97	**1004**	**20**
192	46428	10	1.58499	1.05	0.15827	1.00	0.95	947	10	964	17	**1004**	**3**	0.94	**1004**	**3**
55	29682	16	1.74377	2.53	0.17393	1.09	0.43	1034	12	1025	44	**1006**	**23**	1.03	**1006**	**23**
15	13664	4	1.87231	3.66	0.18570	0.65	0.18	1098	8	1071	67	**1017**	**36**	1.08	**1017**	**36**
211	12249	24	1.70847	2.36	0.16938	1.22	0.52	1009	13	1012	40	**1018**	**20**	0.99	**1018**	**20**
108	17748	12	1.64048	2.55	0.16236	1.41	0.55	970	15	986	42	**1022**	**22**	0.95	**1022**	**22**
29	12854	5	1.79404	2.02	0.17713	0.56	0.28	1051	6	1043	36	**1027**	**20**	1.02	**1027**	**20**
20	118098	5	1.78479	2.00	0.17538	0.62	0.31	1042	7	1040	36	**1036**	**19**	1.01	**1036**	**19**
463	339605	39	1.71676	2.32	0.16852	1.12	0.48	1004	12	1015	40	**1038**	**21**	0.97	**1038**	**21**
8	2674	2	1.52296	8.27	0.14942	1.20	0.15	898	12	940	120	**1039**	**83**	0.86	**1039**	**83**
168	26047	38	1.55752	2.57	0.15264	1.55	0.60	916	15	953	40	**1042**	**21**	0.88	**1042**	**21**
48	17133	7	1.77905	2.55	0.17431	1.07	0.42	1036	12	1038	45	**1042**	**23**	0.99	**1042**	**23**
216	23770	4	1.69383	2.40	0.16591	1.23	0.51	990	13	1006	41	**1043**	**21**	0.95	**1043**	**21**
91	473769	34	1.78487	1.06	0.17483	0.73	0.69	1039	8	1040	19	**1043**	**8**	1.00	**1043**	**8**
62	6710	8	1.86570	2.59	0.18252	1.21	0.47	1081	14	1069	48	**1045**	**23**	1.03	**1045**	**23**
177	190516	14	1.76520	2.30	0.17213	1.08	0.47	1024	12	1033	40	**1052**	**20**	0.97	**1052**	**20**
109	20004	12	1.67373	2.91	0.16301	1.16	0.40	973	12	999	48	**1054**	**27**	0.92	**1054**	**27**
160	78197	4	1.81089	2.46	0.17624	1.39	0.57	1046	16	1049	44	**1056**	**20**	0.99	**1056**	**20**
353	174128	15	1.78356	2.31	0.17350	1.14	0.49	1031	13	1039	41	**1057**	**20**	0.98	**1057**	**20**
13	5521	3	1.69789	5.75	0.16485	1.23	0.21	984	13	1008	95	**1060**	**57**	0.93	**1060**	**57**
67	37937	4	1.75510	2.57	0.17021	1.38	0.54	1013	15	1029	45	**1063**	**22**	0.95	**1063**	**22**
33	153126	5	1.72589	1.86	0.16733	0.68	0.37	997	7	1018	32	**1063**	**17**	0.94	**1063**	**17**
39	77361	15	1.72743	1.57	0.16748	1.05	0.67	998	11	1019	27	**1063**	**12**	0.94	**1063**	**12**
118	34128	9	1.75658	2.38	0.16998	1.12	0.47	1012	12	1030	42	**1067**	**21**	0.95	**1067**	**21**
175	182244	20	1.81864	2.30	0.17579	1.09	0.47	1044	12	1052	42	**1069**	**20**	0.98	**1069**	**20**
32	12353	21	1.56311	2.63	0.15102	1.17	0.45	907	11	956	41	**1070**	**24**	0.85	**1070**	**24**
102	5729	3	1.84575	2.48	0.17776	1.40	0.57	1055	16	1062	45	**1077**	**21**	0.98	**1077**	**21**

78	23434	6	1.74372	2.38	0.16692	1.03	0.43	995	11	1025	41	**1089**	**22**	0.91	**1089**	**22**
25	15202	4	1.82667	4.26	0.17324	1.19	0.28	1030	13	1055	76	**1107**	**41**	0.93	**1107**	**41**
22	6550	9	1.68379	2.75	0.15958	0.88	0.32	955	9	1002	46	**1109**	**26**	0.86	**1109**	**26**
57	21955	3	1.92812	2.45	0.18241	1.07	0.43	1080	13	1091	47	**1112**	**22**	0.97	**1112**	**22**
21	14076	7	1.81006	3.39	0.17089	1.23	0.36	1017	14	1049	61	**1117**	**32**	0.91	**1117**	**32**
151	847411	7	1.90727	2.32	0.17930	1.12	0.49	1063	13	1084	44	**1125**	**20**	0.94	**1125**	**20**
24	31921	5	1.96793	1.88	0.18460	0.64	0.34	1092	8	1105	37	**1129**	**18**	0.97	**1129**	**18**
235	41791	35	1.92764	2.30	0.18057	1.11	0.48	1070	13	1091	44	**1132**	**20**	0.95	**1132**	**20**
73	43901	4	2.02230	2.42	0.18916	1.13	0.47	1117	14	1123	49	**1135**	**21**	0.98	**1135**	**21**
47	984749	4	2.05788	1.20	0.19185	0.63	0.53	1131	8	1135	25	**1142**	**10**	0.99	**1142**	**10**
151	480498	4	1.96498	2.31	0.18307	1.09	0.47	1084	13	1104	45	**1143**	**20**	0.95	**1143**	**20**
44	13320	9	1.86509	2.62	0.17368	1.06	0.40	1032	12	1069	48	**1144**	**24**	0.90	**1144**	**24**
59	30942	11	1.99028	1.25	0.18515	1.02	0.81	1095	12	1112	25	**1146**	**7**	0.96	**1146**	**7**
166	110568	28	2.12300	2.95	0.19738	1.26	0.43	1161	16	1156	62	**1147**	**26**	1.01	**1147**	**26**
142	13463	4	1.93185	2.58	0.17957	1.61	0.62	1065	19	1092	49	**1148**	**20**	0.93	**1148**	**20**
262	50327	13	2.00478	2.43	0.18502	1.28	0.53	1094	15	1117	48	**1162**	**20**	0.94	**1162**	**20**
9	3446	8	1.60249	3.93	0.14787	1.29	0.33	889	12	971	62	**1162**	**37**	0.77	**1162**	**37**
165	462243	26	1.99020	2.36	0.18279	1.24	0.52	1082	15	1112	47	**1171**	**20**	0.92	**1171**	**20**
78	19489	4	2.09823	2.50	0.19278	1.14	0.46	1136	14	1148	52	**1171**	**22**	0.97	**1171**	**22**
63	43593	4	1.98073	0.83	0.18198	0.65	0.78	1078	8	1109	17	**1171**	**5**	0.92	**1171**	**5**
60	58923	22	2.10125	0.85	0.19268	0.52	0.61	1136	6	1149	18	**1174**	**7**	0.97	**1174**	**7**
393	114208	59	2.18613	2.30	0.19759	1.13	0.49	1162	14	1177	50	**1203**	**20**	0.97	**1203**	**20**
162	58409	51	2.22933	2.32	0.19836	1.14	0.49	1167	14	1190	51	**1234**	**20**	0.95	**1234**	**20**
100	132962	6	2.13440	2.32	0.18920	1.10	0.48	1117	13	1160	49	**1241**	**20**	0.90	**1241**	**20**
17	2355	7	1.96521	3.84	0.17269	1.17	0.31	1027	13	1104	74	**1258**	**36**	0.82	**1258**	**36**
39	20335	35	2.35646	0.98	0.20570	0.38	0.38	1206	5	1230	23	**1271**	**9**	0.95	**1271**	**9**
26	2029	5	2.08464	5.92	0.18184	1.66	0.28	1077	19	1144	118	**1273**	**55**	0.85	**1273**	**55**
312	247063	31	2.43671	2.43	0.21154	1.37	0.56	1237	19	1254	58	**1282**	**20**	0.96	**1282**	**20**
12	45521	1	2.24534	3.99	0.19349	1.30	0.33	1140	16	1195	87	**1296**	**37**	0.88	**1296**	**37**
3	9699	7	2.56078	6.00	0.21517	1.49	0.25	1256	21	1290	145	**1345**	**56**	0.93	**1345**	**56**
150	46768	23	2.78614	2.32	0.23107	1.09	0.47	1340	16	1352	64	**1370**	**20**	0.98	**1370**	**20**
163	904110	7	2.88253	2.34	0.23795	1.21	0.51	1376	18	1377	66	**1379**	**19**	1.00	**1379**	**19**
114	191746	22	2.68567	0.61	0.21986	0.53	0.87	1281	8	1325	17	**1395**	**3**	0.92	**1395**	**3**
187	527317	46	2.23301	5.89	0.18213	3.91	0.67	1079	46	1191	125	**1402**	**42**	0.77	**1402**	**42**
28	13253	5	3.21487	2.43	0.25553	1.14	0.47	1467	19	1461	76	**1452**	**20**	1.01	**1452**	**20**
35	1883	6	2.23924	5.89	0.17373	1.20	0.20	1033	13	1193	126	**1498**	**55**	0.69	**1498**	**55**
92	76310	16	3.69170	0.71	0.27501	0.63	0.89	1566	11	1570	26	**1574**	**3**	1.00	**1574**	**3**

27	13804	12	3.60898	1.49	0.26156	1.01	0.68	1498	17	1552	53	**1625**	**10**	0.92	**1625**	**10**
123	122263	31	3.03803	2.37	0.21219	1.21	0.51	1240	17	1417	71	**1694**	**19**	0.73	**1694**	**19**
46	75211	2	4.18667	3.81	0.28211	2.78	0.73	1602	50	1671	150	**1760**	**24**	0.91	**1760**	**24**
163	249102	10	5.14255	2.32	0.33307	1.17	0.50	1853	25	1843	114	**1832**	**18**	1.01	**1832**	**18**
54	229267	7	5.37673	0.58	0.33454	0.44	0.77	1860	10	1881	31	**1904**	**3**	0.98	**1904**	**3**
36	21777	9	5.74824	2.48	0.34485	1.17	0.47	1910	26	1939	135	**1969**	**19**	0.97	**1969**	**19**
162	81858	46	5.25016	2.32	0.31270	1.18	0.51	1754	24	1861	117	**1982**	**18**	0.88	**1982**	**18**
88	111990	12	8.14476	3.21	0.39038	2.49	0.78	2125	62	2247	236	**2361**	**17**	0.90	**2361**	**17**
81	105598	10	10.93768	2.27	0.47481	1.05	0.47	2505	32	2518	225	**2529**	**17**	0.99	**2529**	**17**
242	284068	3	11.12850	2.31	0.47913	1.15	0.50	2523	35	2534	232	**2542**	**17**	0.99	**2542**	**17**
165	363298	11	13.61489	2.30	0.52517	1.12	0.49	2721	38	2723	276	**2725**	**17**	1.00	**2725**	**17**
188	182657	10	13.62303	2.32	0.51665	1.17	0.50	2685	39	2724	279	**2753**	**16**	0.98	**2753**	**16**
10	17305	3	18.88282	2.61	0.60641	1.35	0.52	3056	52	3036	407	**3023**	**18**	1.01	**3023**	**18**
40	132745	2	20.02462	2.29	0.60457	1.10	0.48	3048	43	3093	383	**3121**	**16**	0.98	**3121**	**16**
Chisapani																
23	18245	8	0.63683	3.22	0.08011	1.11	0.35	**497**	**6**	500	21	517	33	0.96	**497**	**6**
104	19320	7	0.66620	2.57	0.08021	0.87	0.34	**497**	**5**	518	17	612	26	0.81	**497**	**5**
324	27505	19	0.66554	3.14	0.08328	2.20	0.70	**516**	**12**	518	21	528	25	0.98	**516**	**12**
725	41091	16	0.66539	2.30	0.08380	1.11	0.48	**519**	**6**	518	15	514	22	1.01	**519**	**6**
102	204914	14	0.82143	2.52	0.09226	1.08	0.43	**569**	**6**	609	21	760	24	0.75	**569**	**6**
35	19188	22	0.84365	3.62	0.09680	2.88	0.79	**596**	**18**	621	31	715	23	0.83	**596**	**18**
55	10791	24	0.88123	4.20	0.09900	1.32	0.31	**609**	**8**	642	37	760	42	0.80	**609**	**8**
31	2375	78	0.91621	4.62	0.10097	2.15	0.47	**620**	**14**	660	42	800	43	0.78	**620**	**14**
27	15756	20	0.89780	3.20	0.10195	0.81	0.25	**626**	**5**	651	29	737	33	0.85	**626**	**5**
416	*21176*	*0*	*1.00336*	*2.04*	*0.10305*	*2.01*	*0.99*	*632*	*13*	*706*	*21*	*946*	*3*	*0.67*		
113	15083	76	1.29320	2.37	0.13907	1.05	0.45	839	9	843	31	**851**	**22**	0.99	**851**	**22**
90	47274	12	1.29030	1.21	0.13575	0.77	0.64	821	7	841	16	**897**	**10**	0.91	**897**	**10**
105	49589	5	1.38047	2.46	0.14295	1.35	0.55	861	12	881	34	**930**	**21**	0.93	**930**	**21**
14	6959	3	1.41990	5.37	0.14609	0.80	0.15	879	8	897	75	**943**	**54**	0.93	**943**	**54**
240	18836	16	1.29299	2.35	0.13207	1.09	0.46	800	9	843	30	**958**	**21**	0.84	**958**	**21**
24	5832	7	1.63547	3.18	0.16513	1.47	0.46	985	16	984	52	**981**	**29**	1.00	**981**	**29**
38	6186	4	1.68381	3.38	0.16956	1.44	0.43	1010	16	1002	56	**987**	**31**	1.02	**987**	**31**
25	34509	9	1.37979	2.60	0.13829	1.07	0.41	835	10	880	36	**996**	**24**	0.84	**996**	**24**
52	7757	3	1.63053	2.74	0.16301	1.21	0.44	973	13	982	44	**1001**	**25**	0.97	**1001**	**25**
2	2369	3	1.27536	4.97	0.12739	3.52	0.71	773	29	835	62	**1003**	**36**	0.77	**1003**	**36**
13	2912	4	1.76666	5.39	0.17632	1.56	0.29	1047	18	1033	92	**1005**	**52**	1.04	**1005**	**52**
95	14924	2	1.63404	4.73	0.16275	4.20	0.89	972	44	983	76	**1009**	**22**	0.96	**1009**	**22**

760	210016	496	1.77102	2.25	0.17626	1.03	0.46	1046	12	1035	40	**1010**	**20**	1.04	**1010**	**20**
6	2282	4	1.72657	8.80	0.17021	1.29	0.15	1013	14	1018	144	**1030**	**88**	0.98	**1030**	**88**
230	9430	9	1.53925	4.91	0.15129	3.61	0.74	908	35	946	74	**1036**	**34**	0.88	**1036**	**34**
34	5882	4	1.43254	3.94	0.14020	1.28	0.33	846	12	903	56	**1044**	**38**	0.81	**1044**	**38**
62	715063	10	1.47898	2.40	0.14425	1.09	0.46	869	10	922	35	**1051**	**21**	0.83	**1051**	**21**
6	2353	3	1.62776	8.67	0.15841	1.45	0.17	948	15	981	134	**1056**	**86**	0.90	**1056**	**86**
43	7487	10	1.82527	2.81	0.17741	1.16	0.41	1053	13	1055	51	**1058**	**26**	1.00	**1058**	**26**
865	391533	28	1.61016	2.45	0.15647	1.41	0.58	937	14	974	39	**1059**	**20**	0.88	**1059**	**20**
9	4282	3	1.32762	3.80	0.12865	2.18	0.57	780	18	858	50	**1064**	**31**	0.73	**1064**	**31**
169	35851	15	1.74352	2.78	0.16843	1.82	0.66	1003	20	1025	48	**1071**	**21**	0.94	**1071**	**21**
437	180347	9	1.50546	2.38	0.14513	1.28	0.54	874	12	933	36	**1075**	**20**	0.81	**1075**	**20**
23	4109	5	1.79518	3.10	0.17270	1.16	0.37	1027	13	1044	55	**1079**	**29**	0.95	**1079**	**29**
164	68149	8	1.68435	2.72	0.16142	1.80	0.66	965	19	1003	45	**1087**	**20**	0.89	**1087**	**20**
64	87926	22	1.65985	1.31	0.15892	0.58	0.45	951	6	993	22	**1088**	**12**	0.87	**1088**	**12**
23	3546	5	1.71414	3.91	0.16399	1.65	0.42	979	17	1014	66	**1090**	**35**	0.90	**1090**	**35**
44	6489	19	1.99636	2.66	0.19104	1.10	0.41	1127	14	1114	53	**1090**	**24**	1.03	**1090**	**24**
37	4232	8	1.83363	7.13	0.17500	2.32	0.33	1040	26	1058	125	**1095**	**68**	0.95	**1095**	**68**
38	7499	8	1.78901	2.52	0.17024	1.04	0.41	1013	11	1041	45	**1101**	**23**	0.92	**1101**	**23**
9	1773	3	1.87812	2.62	0.17698	1.32	0.50	1050	15	1073	49	**1120**	**23**	0.94	**1120**	**23**
34	5545	8	1.91455	3.48	0.18008	1.26	0.36	1067	15	1086	66	**1124**	**32**	0.95	**1124**	**32**
37	7154	1	2.08531	2.67	0.19404	1.15	0.43	1143	14	1144	55	**1145**	**24**	1.00	**1145**	**24**
48	10900	8	1.91793	2.67	0.17802	1.21	0.45	1056	14	1087	51	**1150**	**24**	0.92	**1150**	**24**
19	14413	5	1.46757	4.14	0.13610	1.66	0.40	823	15	917	60	**1152**	**38**	0.71	**1152**	**38**
38	5627	2	1.71156	1.73	0.15865	0.71	0.41	949	7	1013	30	**1153**	**16**	0.82	**1153**	**16**
7	1280	4	1.89709	9.86	0.17575	2.17	0.22	1044	25	1080	174	**1154**	**95**	0.90	**1154**	**95**
23	5650	2	2.10562	2.55	0.19503	1.23	0.48	1149	15	1151	53	**1155**	**22**	0.99	**1155**	**22**
100	23312	7	2.21658	0.83	0.19835	0.77	0.92	1166	10	1186	19	**1223**	**3**	0.95	**1223**	**3**
103	104699	28	1.83974	2.30	0.16446	1.07	0.47	982	11	1060	42	**1225**	**20**	0.80	**1225**	**20**
112	20084	34	2.04650	2.42	0.18279	1.25	0.52	1082	15	1131	49	**1226**	**20**	0.88	**1226**	**20**
21	5015	8	2.18875	3.38	0.19526	1.07	0.32	1150	13	1177	73	**1229**	**32**	0.94	**1229**	**32**
8	1870	5	2.09523	3.09	0.18253	1.33	0.43	1081	16	1147	64	**1275**	**27**	0.85	**1275**	**27**
12	24454	4	2.09110	4.06	0.17804	0.89	0.22	1056	10	1146	83	**1320**	**38**	0.80	**1320**	**38**
30	7558	9	2.94078	3.68	0.23601	2.59	0.70	1366	39	1392	104	**1433**	**25**	0.95	**1433**	**25**
66	31886	3	2.52586	1.19	0.20206	1.00	0.84	1186	13	1280	30	**1439**	**6**	0.82	**1439**	**6**
68	11691	7	3.01254	1.88	0.23999	1.70	0.90	1387	26	1411	56	**1447**	**8**	0.96	**1447**	**8**
9	2597	3	3.50290	4.24	0.26870	1.53	0.36	1534	27	1528	141	**1519**	**37**	1.01	**1519**	**37**
65	15905	6	3.52387	2.49	0.26814	1.27	0.51	1531	22	1533	86	**1534**	**20**	1.00	**1534**	**20**

18	4242	4	3.63315	2.92	0.27604	1.56	0.54	1571	28	1557	102	**1537**	**23**	1.02	**1537**	**23**
47	13736	5	3.71251	2.40	0.26863	1.20	0.50	1534	21	1574	87	**1628**	**19**	0.94	**1628**	**19**
28	3703	4	3.15205	2.82	0.22801	1.34	0.48	1324	20	1446	87	**1629**	**23**	0.81	**1629**	**23**
145	74309	7	3.84121	0.78	0.27157	0.69	0.88	1549	12	1601	30	**1671**	**3**	0.93	**1671**	**3**
128	56384	12	4.46844	2.59	0.30765	1.62	0.63	1729	32	1725	111	**1720**	**19**	1.01	**1720**	**19**
42	16392	1	4.22537	2.55	0.28880	1.32	0.52	1636	24	1679	104	**1734**	**20**	0.94	**1734**	**20**
171	12037	1	4.12816	4.60	0.27689	4.12	0.90	1576	73	1660	176	**1768**	**19**	0.89	**1768**	**19**
28	8570	4	4.50959	2.55	0.29981	1.19	0.47	1690	23	1733	110	**1784**	**21**	0.95	**1784**	**21**
43	14696	3	4.67558	2.77	0.30825	1.87	0.68	1732	37	1763	124	**1800**	**19**	0.96	**1800**	**19**
18	5134	6	4.60813	3.04	0.30357	1.21	0.40	1709	24	1751	133	**1801**	**25**	0.95	**1801**	**25**
31	18168	2	6.91779	3.45	0.38957	1.30	0.38	2121	33	2101	217	**2082**	**28**	1.02	**2082**	**28**
59	390859	8	5.88544	2.27	0.32695	1.05	0.46	1824	22	1959	127	**2105**	**18**	0.87	**2105**	**18**
44	22888	2	7.74719	2.94	0.41454	2.11	0.72	2236	56	2202	208	**2171**	**18**	1.03	**2171**	**18**
53	11767	11	6.53399	2.71	0.33020	1.76	0.65	1839	37	2050	165	**2270**	**18**	0.81	**2270**	**18**
40	116518	21	7.30093	2.39	0.35327	1.18	0.49	1950	27	2149	163	**2345**	**18**	0.83	**2345**	**18**
198	191252	16	9.48359	2.28	0.42709	1.09	0.48	2293	30	2386	199	**2467**	**17**	0.93	**2467**	**17**
9	6202	5	8.20001	2.64	0.36117	1.25	0.47	1988	29	2253	199	**2504**	**20**	0.79	**2504**	**20**
23	195789	7	10.56852	2.72	0.46474	1.76	0.65	2460	53	2486	256	**2507**	**17**	0.98	**2507**	**17**
178	140772	103	10.04358	2.65	0.43767	1.54	0.58	2340	43	2439	240	**2522**	**18**	0.93	**2522**	**18**
13	7656	4	10.04643	2.47	0.43579	1.32	0.53	2332	37	2439	225	**2530**	**18**	0.92	**2530**	**18**
52	29109	6	11.05261	2.39	0.47830	1.29	0.54	2520	40	2528	238	**2534**	**17**	0.99	**2534**	**17**
62	293817	16	10.78053	2.37	0.46400	1.26	0.53	2457	38	2504	231	**2543**	**17**	0.97	**2543**	**17**
14	7133	6	11.52552	2.64	0.48023	1.66	0.63	2528	51	2567	269	**2597**	**17**	0.97	**2597**	**17**
210	97390	10	9.21539	1.35	0.38389	1.25	0.93	2094	31	2360	119	**2597**	**4**	0.81	**2597**	**4**
8	16160	5	10.61743	3.05	0.44148	0.98	0.32	2357	28	2490	285	**2601**	**24**	0.91	**2601**	**24**
76	12562	4	11.67502	2.41	0.47817	1.21	0.50	2519	37	2579	252	**2626**	**17**	0.96	**2626**	**17**
41	321757	4	11.27644	4.43	0.46001	2.76	0.62	2440	81	2546	411	**2632**	**29**	0.93	**2632**	**29**
204	106480	18	12.57102	2.59	0.50670	1.62	0.63	2643	53	2648	286	**2652**	**17**	1.00	**2652**	**17**
128	65993	57	12.94092	2.42	0.51288	1.28	0.53	2669	42	2675	276	**2680**	**17**	1.00	**2680**	**17**
10	15388	9	12.26756	0.97	0.48461	0.59	0.60	2547	18	2625	115	**2686**	**6**	0.95	**2686**	**6**
205	185313	12	11.61887	0.63	0.45406	0.62	0.98	2413	18	2574	72	**2703**	**1**	0.89	**2703**	**1**
355	837524	18	13.43294	2.25	0.51822	1.03	0.46	2692	34	2711	268	**2725**	**16**	0.99	**2725**	**16**
18	10872	2	13.93250	2.49	0.53361	1.44	0.58	2757	49	2745	303	**2737**	**17**	1.01	**2737**	**17**
82	22691	6	14.99116	5.06	0.54302	2.29	0.45	2796	80	2815	574	**2828**	**37**	0.99	**2828**	**37**
177	70159	16	15.44588	2.31	0.55870	1.12	0.49	2861	40	2843	310	**2830**	**16**	1.01	**2830**	**16**
162	74868	3	14.78456	2.25	0.51966	1.02	0.45	2698	34	2801	291	**2877**	**16**	0.94	**2877**	**16**
31	19916	4	15.70277	2.37	0.52672	1.21	0.51	2728	41	2859	321	**2953**	**16**	0.92	**2953**	**16**

65	42188	4	19.55216	2.78	0.59712	1.48	0.53	3018	57	3069	440	**3103**	**19**	0.97	**3103**	**19**
140	78773	9	23.77862	2.31	0.63671	1.15	0.50	3176	47	3259	444	**3311**	**16**	0.96	**3311**	**16**
38	35355	6	27.68666	2.45	0.64045	1.36	0.55	3191	56	3408	526	**3538**	**16**	0.90	**3538**	**16**
75	77629	8	39.29424	2.40	0.77359	1.32	0.55	3694	65	3753	674	**3785**	**15**	0.98	**3785**	**15**
Kulikhani																
189	28243	NA	1.03206	2.41	0.11736	1.23	0.51	**715**	**9**	720	25	734	22	0.97	**715**	**9**
28	*11046*	*NA*	*1.33820*	*3.01*	*0.14966*	*1.16*	*0.39*	*899*	*11*	*862*	*40*	*770*	*29*	*1.17*		
68	3454	NA	1.38186	2.64	0.14771	1.13	0.43	888	11	881	36	**864**	**25**	1.03	**864**	**25**
9	*10577*	*2*	*1.51217*	*4.91*	*0.16119*	*1.36*	*0.28*	*963*	*14*	*935*	*73*	*870*	*49*	*1.11*		
73	13007	NA	1.29582	2.45	0.13793	1.11	0.45	833	10	844	32	**873**	**23**	0.95	**873**	**23**
185	25263	NA	1.36763	2.38	0.14479	1.20	0.51	872	11	875	33	**884**	**21**	0.99	**884**	**21**
172	11187	NA	1.26821	2.38	0.13351	1.15	0.48	808	10	832	30	**895**	**22**	0.90	**895**	**22**
85	11388	NA	1.37302	2.47	0.14424	1.18	0.48	869	11	877	34	**900**	**22**	0.97	**900**	**22**
159	22238	NA	1.48680	2.33	0.15349	1.08	0.47	920	11	925	35	**936**	**21**	0.98	**936**	**21**
124	7405	NA	1.13623	2.57	0.11638	1.20	0.47	710	9	771	29	**952**	**23**	0.75	**952**	**23**
248	28501	NA	1.47814	2.34	0.15119	1.13	0.48	908	11	921	35	**955**	**21**	0.95	**955**	**21**
25	4672	NA	1.54998	3.20	0.15736	1.12	0.35	942	11	950	49	**970**	**31**	0.97	**970**	**31**
56	10128	NA	1.46681	2.55	0.14878	1.11	0.44	894	11	917	37	**972**	**23**	0.92	**972**	**23**
51	4701	10	1.47819	1.07	0.14964	0.47	0.44	899	5	922	16	**976**	**10**	0.92	**976**	**10**
47	33225	0	1.60007	1.10	0.16194	0.29	0.27	968	3	970	18	**976**	**11**	0.99	**976**	**11**
7	5165	5	1.59480	8.14	0.16137	0.73	0.09	964	8	968	124	**977**	**83**	0.99	**977**	**83**
54	3683	3	1.64977	1.39	0.16655	0.55	0.39	993	6	990	23	**981**	**13**	1.01	**981**	**13**
90	21866	NA	1.66922	2.39	0.16850	1.14	0.48	1004	12	997	40	**982**	**21**	1.02	**982**	**21**
257	2055	NA	1.69608	7.13	0.17070	2.29	0.32	1016	25	1007	116	**988**	**69**	1.03	**988**	**69**
84	32042	NA	1.63353	2.33	0.16250	1.07	0.46	971	11	983	38	**1011**	**21**	0.96	**1011**	**21**
184	10601	NA	1.64003	2.30	0.16284	1.10	0.48	973	11	986	38	**1015**	**20**	0.96	**1015**	**20**
40	15670	6	1.66887	1.78	0.16556	0.58	0.33	988	6	997	30	**1017**	**17**	0.97	**1017**	**17**
194	90099	NA	1.50915	2.40	0.14887	1.06	0.44	895	10	934	36	**1028**	**22**	0.87	**1028**	**22**
49	7482	NA	1.55580	2.82	0.15288	1.40	0.50	917	14	953	44	**1036**	**25**	0.89	**1036**	**25**
232	53951	NA	1.55823	2.42	0.15307	1.33	0.55	918	13	954	38	**1037**	**20**	0.89	**1037**	**20**
171	31940	NA	1.71694	2.28	0.16811	1.04	0.46	1002	11	1015	39	**1044**	**20**	0.96	**1044**	**20**
90	11302	NA	1.74188	3.10	0.17041	1.03	0.33	1014	11	1024	53	**1045**	**29**	0.97	**1045**	**29**
249	39222	NA	1.86179	2.36	0.18007	1.18	0.50	1067	14	1068	44	**1068**	**21**	1.00	**1068**	**21**
215	*9493*	*NA*	*0.97804*	*4.63*	*0.09427*	*4.06*	*0.88*	*581*	*25*	*693*	*45*	*1075*	*22*	*0.54*		
239	17631	NA	1.69684	2.41	0.16274	1.33	0.55	972	14	1007	41	**1085**	**20**	0.90	**1085**	**20**
46	56593	3	1.73082	1.80	0.16603	0.47	0.26	990	5	1020	31	**1085**	**17**	0.91	**1085**	**17**
55	15557	4	1.59989	1.32	0.15308	0.43	0.33	918	1	970	21	**1090**	**12**	0.84	**1090**	**12**

15	*17696*	*1*	*2.15778*	*2.26*	*0.20549*	*0.59*	*0.26*	*1205*	*8*	*1168*	*48*	*1099*	*22*	*1.10*		
97	9988	NA	1.50380	3.06	0.14318	1.21	0.40	863	11	932	46	**1100**	**28**	0.78	**1100**	**28**
31	35071	NA	1.56210	4.66	0.14772	1.06	0.23	888	10	955	71	**1113**	**45**	0.80	**1113**	**45**
31	7512	8	1.83060	1.71	0.17304	1.15	0.67	1029	13	1057	31	**1114**	**13**	0.92	**1114**	**13**
51	22343	11	1.89831	1.53	0.17740	0.40	0.26	1053	5	1081	29	**1137**	**15**	0.93	**1137**	**15**
246	88811	NA	1.76925	2.26	0.16530	1.04	0.46	986	11	1034	40	**1137**	**20**	0.87	**1137**	**20**
192	15234	12	1.58873	0.99	0.14847	0.83	0.84	892	8	966	16	**1137**	**5**	0.78	**1137**	**5**
297	40645	NA	1.81041	2.34	0.16912	1.20	0.51	1007	13	1049	42	**1138**	**20**	0.88	**1138**	**20**
32	3354	NA	1.99195	3.05	0.18361	1.14	0.37	1087	13	1113	60	**1164**	**28**	0.93	**1164**	**28**
112	12982	NA	2.02583	2.35	0.18650	1.19	0.51	1102	14	1124	47	**1167**	**20**	0.94	**1167**	**20**
40	2293	NA	1.67282	2.70	0.15379	1.10	0.41	922	11	998	45	**1169**	**24**	0.79	**1169**	**24**
25	20197	6	2.19396	2.61	0.20089	0.63	0.24	1180	8	1179	57	**1177**	**25**	1.00	**1177**	**25**
42	6129	18	1.72301	1.98	0.15761	1.32	0.67	944	13	1017	34	**1179**	**15**	0.80	**1179**	**15**
53	36931	NA	2.04066	2.77	0.18654	1.23	0.45	1103	15	1129	56	**1181**	**24**	0.93	**1181**	**24**
36	10720	NA	2.05994	2.54	0.18657	1.08	0.43	1103	13	1136	52	**1199**	**23**	0.92	**1199**	**23**
79	30369	NA	2.05384	2.37	0.18561	1.11	0.47	1098	13	1134	48	**1203**	**21**	0.91	**1203**	**21**
28	10248	NA	2.11378	2.75	0.19057	1.11	0.41	1124	14	1153	57	**1208**	**25**	0.93	**1208**	**25**
63	8055	11	1.91622	0.89	0.17269	0.33	0.37	1027	4	1087	17	**1209**	**8**	0.85	**1209**	**8**
41	63732	NA	1.69439	3.02	0.15224	1.65	0.55	914	16	1006	51	**1215**	**25**	0.75	**1215**	**25**
111	10310	NA	1.85400	2.63	0.16605	1.04	0.39	990	11	1065	48	**1222**	**24**	0.81	**1222**	**24**
39	4190	3	2.14690	1.32	0.19176	0.64	0.48	1131	8	1164	29	**1226**	**11**	0.92	**1226**	**11**
176	14914	NA	1.91930	2.39	0.16838	1.11	0.46	1003	12	1088	46	**1261**	**21**	0.80	**1261**	**21**
140	5970	13	2.11395	0.79	0.18246	0.67	0.85	1080	8	1153	17	**1293**	**4**	0.84	**1293**	**4**
67	4116	8	2.17027	1.16	0.18657	0.87	0.75	1103	11	1172	25	**1301**	**7**	0.85	**1301**	**7**
17	5458	NA	2.01174	5.47	0.17179	1.73	0.32	1022	19	1119	106	**1314**	**50**	0.78	**1314**	**50**
145	21191	NA	2.72017	2.41	0.22417	1.27	0.53	1304	18	1334	64	**1383**	**20**	0.94	**1383**	**20**
42	21397	NA	2.96191	2.40	0.24180	1.08	0.45	1396	17	1398	70	**1401**	**21**	1.00	**1401**	**21**
18	5560	7	3.31638	1.06	0.26247	0.74	0.70	1502	13	1485	35	**1460**	**7**	1.03	**1460**	**7**
54	16576	NA	3.20769	2.39	0.25281	1.14	0.48	1453	19	1459	75	**1468**	**20**	0.99	**1468**	**20**
560	*153118*	*NA*	*2.28404*	*3.77*	*0.17610*	*2.29*	*0.61*	*1046*	*26*	*1207*	*84*	*1509*	*28*	*0.69*		
244	91575	NA	3.19145	2.31	0.24586	1.14	0.50	1417	18	1455	72	**1511**	**19**	0.94	**1511**	**19**
32	227323	8	3.14049	0.80	0.24191	0.41	0.51	1397	6	1443	25	**1511**	**6**	0.92	**1511**	**6**
105	62480	NA	3.24514	2.30	0.24921	1.10	0.48	1434	18	1468	73	**1517**	**19**	0.95	**1517**	**19**
35	15568	4	3.50870	0.86	0.26392	0.62	0.72	1510	11	1529	30	**1556**	**6**	0.97	**1556**	**6**
128	34344	NA	3.27971	2.32	0.24451	1.10	0.48	1410	17	1476	74	**1573**	**19**	0.90	**1573**	**19**
30	9695	NA	3.88402	2.48	0.28423	1.25	0.51	1613	23	1610	93	**1607**	**20**	1.00	**1607**	**20**
14	39175	2	4.03945	1.37	0.29345	0.41	0.30	1659	8	1642	55	**1621**	**12**	1.02	**1621**	**12**

5	12091	2	3.17848	6.94	0.22590	1.02	0.15	1313	15	1452	202	**1662**	**64**	0.79	**1662**	**64**
63	13684	NA	3.08260	2.82	0.21861	1.65	0.58	1275	23	1428	85	**1666**	**21**	0.77	**1666**	**21**
99	164305	NA	3.75361	2.27	0.26614	1.05	0.46	1521	18	1583	83	**1666**	**19**	0.91	**1666**	**19**
24	*1040*	*NA*	*2.58900*	*5.53*	*0.18359*	*1.65*	*0.30*	*1087*	*19*	*1298*	*136*	*1666*	*49*	*0.65*		
68	21340	NA	4.17598	2.35	0.28361	1.20	0.51	1609	22	1669	95	**1745**	**19**	0.92	**1745**	**19**
11	8900	6	4.48751	1.52	0.30338	0.74	0.49	1708	15	1729	67	**1754**	**12**	0.97	**1754**	**12**
54	*101086*	*11*	*2.38060*	*1.53*	*0.16038*	*1.14*	*0.74*	*959*	*12*	*1237*	*36*	*1760*	*9*	*0.54*		
49	19142	10	4.02324	1.60	0.27074	1.52	0.95	1545	27	1639	64	**1762**	**5**	0.88	**1762**	**5**
27	17493	3	4.38606	0.93	0.29269	0.36	0.39	1655	7	1710	41	**1777**	**8**	0.93	**1777**	**8**
56	15834	NA	4.10149	3.05	0.27171	2.24	0.74	1549	39	1655	120	**1791**	**19**	0.86	**1791**	**19**
74	33518	NA	4.50722	4.11	0.29473	1.98	0.48	1665	38	1732	172	**1814**	**33**	0.92	**1814**	**33**
380	423348	4	4.73372	1.11	0.29292	0.74	0.67	1656	14	1773	52	**1914**	**7**	0.87	**1914**	**7**
68	52633	2	5.62448	0.83	0.32024	0.76	0.92	1791	16	1920	47	**2062**	**3**	0.87	**2062**	**3**
43	*1139*	*NA*	*3.99887*	*3.03*	*0.22010*	*1.58*	*0.52*	*1282*	*22*	*1634*	*116*	*2122*	*23*	*0.60*		
207	86653	17	7.57695	1.31	0.36362	1.24	0.95	1999	29	2182	96	**2359**	**4**	0.85	**2359**	**4**
22	319705	4	8.91689	1.38	0.40764	1.25	0.90	2204	33	2330	118	**2441**	**5**	0.90	**2441**	**5**
49	41161	NA	9.71413	2.28	0.44034	1.06	0.47	2352	30	2408	203	**2456**	**17**	0.96	**2456**	**17**
50	26211	3	8.34149	0.83	0.37514	0.76	0.92	2054	18	2269	68	**2469**	**3**	0.83	**2469**	**3**
71	3459	15	9.22650	1.46	0.41195	0.85	0.58	2224	23	2361	128	**2481**	**10**	0.90	**2481**	**10**
77	11837	NA	10.68111	2.28	0.46569	1.08	0.47	2465	32	2496	221	**2521**	**17**	0.98	**2521**	**17**
9	3801	3	9.37494	1.51	0.40721	1.29	0.86	2202	34	2375	134	**2528**	**6**	0.87	**2528**	**6**
53	31172	NA	10.84171	2.32	0.46823	1.16	0.50	2476	35	2510	228	**2537**	**17**	0.98	**2537**	**17**
293	129567	NA	10.32726	2.28	0.44552	1.09	0.48	2375	31	2465	215	**2539**	**17**	0.94	**2539**	**17**
119	69738	NA	11.20593	2.27	0.48260	1.06	0.47	2539	33	2540	230	**2542**	**17**	1.00	**2542**	**17**
152	415432	NA	10.27939	2.54	0.44245	1.52	0.60	2362	43	2460	235	**2543**	**17**	0.93	**2543**	**17**
640	719779	NA	11.35449	2.27	0.47483	1.05	0.46	2505	32	2553	233	**2591**	**17**	0.97	**2591**	**17**
203	168099	15	11.54669	0.44	0.47454	0.40	0.92	2503	12	2568	50	**2620**	**1**	0.96	**2620**	**1**
73	96848	5	11.82325	0.99	0.48046	0.97	0.97	2529	30	2591	113	**2639**	**2**	0.96	**2639**	**2**
66	8711	3	10.92152	0.65	0.44201	0.60	0.93	2360	17	2517	70	**2646**	**2**	0.89	**2646**	**2**
23	3738	NA	10.92758	3.16	0.44170	1.15	0.36	2358	33	2517	301	**2648**	**24**	0.89	**2648**	**24**
59	*17204*	*NA*	*6.30175*	*2.58*	*0.25174*	*1.30*	*0.50*	*1447*	*21*	*2019*	*153*	*2667*	*18*	*0.54*		
38	15612	1	11.06608	1.83	0.43153	1.68	0.92	2313	47	2529	187	**2707**	**6**	0.85	**2707**	**6**
135	52711	13	13.24363	1.09	0.50345	1.08	0.99	2629	35	2697	137	**2749**	**1**	0.96	**2749**	**1**
34	37617	4	12.41784	0.57	0.46582	0.50	0.88	2465	15	2637	70	**2771**	**2**	0.89	**2771**	**2**
4	780	NA	16.00187	2.41	0.53451	1.32	0.55	2760	45	2877	331	**2960**	**16**	0.93	**2960**	**16**
274	7854	NA	18.20088	2.40	0.53114	1.28	0.53	2746	44	3000	367	**3175**	**16**	0.86	**3175**	**16**
503	206493	24	22.70465	1.03	0.60921	1.03	1.00	3067	40	3214	213	**3308**	**0**	0.93	**3308**	**2**

233	200268	NA	27.74880	2.38	0.67398	1.27	0.53	3321	55	3410	515	**3463**	**16**	0.96	**3463**	**16**
30	91707	3	28.89350	0.66	0.68567	0.59	0.91	3366	26	3450	176	**3499**	**2**	0.96	**3499**	**2**
5	7925	NA	47.61952	5.64	0.82594	5.26	0.93	3881	274	3944	1324	**3976**	**15**	0.98	**3976**	**15**

$^{206}Pb/^{204}Pb$ is measured ratio.
All errors are at the 1-sigma level.
Conc is the degree of concordance, based on comparison of $^{206}Pb/^{238}U$ and $^{206}Pb/^{207}Pb$ ages.
Ages in bold are interpreted to be the best estimates of crystallization age.
Ages in italics are not used for age interpretation due to unacceptable uncertainty or discordance.
U concentration and U/Th have uncertainties of ~25%.
Decay constants: $^{235}U=9.8485x10^{-10}$. $^{238}U=1.55125x10^{-10}$, $^{238}U/^{235}U=137.88$.
Isotope ratios are corrected for Pb/U fractionation by comparison with standard zircon with an age of 564 ± 4 Ma.
Initial Pb composition interpreted from Stacey and Kramers (1975), with uncertainties of
1.0 for $^{206}Pb/^{204}Pb$ and 0.3 for $^{207}Pb/^{204}Pb$.

Table DR3. Th-Pb (monazite) geochronologic analyses by Laser-Ablation ICPMS

sample	Th (ppm)	$^{208}Pb/^{204}Pb$	$^{208}Pb/^{232}Th$	± (%)	$^{208}Pb/^{232}Th$ age	± (Ma)
Kulikhani schist						
1C	286	1449	0.00144	11.52	29.1	3.4
3C	232	2662	0.00141	11.06	28.5	3.2
4R	672	2317	0.00138	10.42	27.9	2.9
5C	91	1711	0.00159	11.48	32.1	3.7
7C	213	1880	0.00159	10.48	32.1	3.4
8C	143	771	0.00141	10.77	28.5	3.1
10C	278	787	0.00143	10.26	28.9	3.0
11C	757	1990	0.00149	10.10	30.1	3.0
12C	245	3087	0.00149	10.68	30.1	3.2
13C	123	1413	0.00149	11.24	30.1	3.4
14C	164	1435	0.00162	10.58	32.6	3.5
15C	204	1040	0.00135	12.53	27.3	3.4
18R	378	1344	0.00122	10.39	24.6	2.6
19C	72	1302	0.00128	10.07	25.8	2.6
22C	218	4570	0.00157	10.63	31.7	3.4
24R	1004	1932	0.00120	10.20	24.2	2.5
25C	144	1117	0.00147	10.51	29.7	3.1
26C	334	1661	0.00154	11.66	31.1	3.6
27C	124	1205	0.00124	11.60	25.1	2.9
28C	124	1446	0.00149	13.09	30.1	3.9
29R	105	1216	0.00129	10.89	26.1	2.8
Kalitar schist						
1C	729	2064	0.02473	3.43	493.8	17.1
2C	184	650	0.02421	4.36	483.6	21.3
3C	228	1512	0.02448	4.11	488.8	20.3

$^{208}Pb/^{232}Th$ is measured ratio
All errors are reported at the 1-sigma level.
Th concentration has an uncertainty of ~25%.
^{232}Th Decay constant = 1.401×10^{-10}.
Isotope ratios are corrected for Pb/U fractionation by comparison with standard monazite with an age of 424 ± 1 Ma.
Initial Pb composition interpreted from Stacey and Kramers (1975), with uncertainty of 2.0 for $^{208}Pb/^{204}Pb$.

Table DR4. Point counts of detrital zircon samples from the Kathamndu thrust sheet.

SAMPLE	Qm.%	F.%	Lt.%	Qt.%	F.%	L.%	Qm.%	P.%	K.%	F/F+Qm	K:K+P
TISTUNG1	0.25	0.60	0.15	0.40	0.60	0.00	0.29	0.33	0.37	70.57	0.53
TISTUNG2	0.58	0.24	0.18	0.75	0.24	0.01	0.71	0.05	0.25	29.06	0.84
KULIKHANI1	0.81	0.19	0.00	0.81	0.19	0.00	0.81	0.08	0.11	18.80	0.56
KULIKHANI2	0.90	0.10	0.00	0.90	0.10	0.00	0.90	0.00	0.10	10.38	1.00
JURIKHET1	0.99	0.01	0.00	0.99	0.01	0.00	0.99	0.00	0.01	0.62	1.00
JURIKHET2	0.99	0.01	0.00	0.99	0.01	0.00	0.99	0.00	0.01	0.92	1.00

Note:

Standard petrographic thin sections were cut and stained for K-feldspar. Each thin section was point-counted according to the Gazzi-Dickinson (Ingersoll et al., 1984) method (450 counts per slide). In all samples, the only significant grain types observed were quartz, K-feldspar, plagioclase, and muscovite. Traces of magnetite, zircon, garnet, and tourmaline are present. The samples from the Kulikhani and Jurikhet formations are strongly metamorphosed and foliated; quartz grains are completely sutured and petrographic textures suggest complete recrystallization. These samples are quartz-mica tectonites, and substantial amounts of original detrital grains may have been destroyed during metamorphism. Muscovite in these samples accounts for 15-27% of the total population, and many of the muscovites are associated with K-feldspar, suggesting that the muscovite formed in paragenetic sequence after K-feldspar.

Ingersoll, R.V., Bullard, T.F., Ford, R.L., Grimm, J.P., Pickle, J.D., and Sares, S.W., 1984, The effect of grain size on detrital modes: a test of the Gazzi-Dickinson point-counting method, Journal of Sedimentary Petrology, v. 54, p. 103-114.

Fig. DR1 (Gehrels et al.)