GSA Data Repository 2018071

Nordsvan et al., 2018, Laurentian crust in northeast Australia: Implications for the assembly of the supercontinent Nuna: Geology, https://doi.org/10.1130/G39980.1.

Data acquisition

Compiled Data

Data from the Georgetown and Mt. Isa Inliers were compiled from Geoscience Australia's Geochron Delivery system (http://www.ga.gov.au/geochron-sapub-web/geochronology/shrimp/search.htm). Additional data from the Georgetown Inlier were obtained from Lambeck (2011). Data from the Wernecke Supergroup were obtained from Furlanetto et al. (2016).

New Data

Sample collection (IG01)

A sample from the Inorunie Group was collected from a road cutting on Gulf Development Rd (IG01).

Sample Preparation

Zircons were separated from the sample at Curtin University and University of Newcastle. Zircon grains were hand-picked and mounted in 25 mm diameter epoxy resin discs and polished to approximately half grain thickness then cleaned and carbon coated at the University of Newcastle. The discs were carbon coated for backscattered, secondary electron and cathodoluminescence (CL) imaging on JEOL JSM- 6480 LA scanning electron microscope (SEM) at Macquarie University using an accelerating voltage of 10 kV at a working distance of 15 mm.

LA-ICP-MS analysis: U–Pb dating

Sample IG01 was analysed on 2 different occasions.

1-IG01a

LA-ICP-MS data were collected at the University of Newcastle using a NWR UP-213 Nd:YAG laser ablation system, coupled with an Agilent 7700× ICP-MS. Zircon spots were chosen using CL and transmitted light imaging in order to avoid rims, boundaries and inclusions. A repetition rate of 5 Hz was used for all analyses. Helium gas was used as the laser ablation carrier gas. A single analysis was 1 s (2 Hz) pre-ablation, 30 s washout time, 30 s background and 50 s sample analyses with a 40 μm spot size. Between every 10 unknown grains GJ-1, 91500 and Plešovice zircon standards were used. GJ-1, with a 207Pb/206Pb age of 608.5 ± 0.4 Ma (Jackson et al., 2004), was used as the primary standard for data reduction.

2-IG01b

LA-ICP-MS data were collected at the GeoHistory Facility in the John de Laeter Centre, Curtin University using a COMPex 102 excimer laser with an Agilent 7700× ICP-MS. Zircon spots were chosen using CL and transmitted light imaging in order to avoid rims, boundaries and inclusions. . A repetition rate of 7 Hz was used for all analyses. A single analysis was 1 s (2 Hz) pre-ablation, 20 s background and 30 s sample analyses with a 50 μm spot size. Between every 10 unknown grains GJ-1, 91500 and Plešovice zircon standards were used. GJ-1, with a 207Pb/206Pb age of 608.5 ± 0.4 Ma (Jackson et al., 2004), was used as the primary standard for data reduction. Zircon standards OG1 and R33 were used as additional checks.

Detrital zircon age spectrum

Kernel density estimates (Vermeesch, 2012) are used to visualise the detrital zircon U-Pb data. Both negatively and positively discordant data outside >5% concordia was omitted. Data was plotted using DensityPlotter 7.3. (http://www.ucl.ac.uk/~ucfbpve/densityplotter/) using an adaptive bandwidth of 15.

Magmatic ages (figure 2)

Magmatic ages for Laurantia were obtained from Natural Resources Canada (http://atlas.gc.ca/geochron/en/) and Eglington et al. (2013). Magmatic ages from the NAC were attained from Geoscience Australia (http://www.ga.gov.au/geochron-sapub-web/geochronology/shrimp/search.htm) and Neumann and Fraser (2007).

The magmatic geochronological data was plotted using DensityPlotter 7.3 and compared to detrital samples.

Paleocurrent Measurements

From the lower Etheridge Group paleocurrent measurements were taken in 5 locations from current ripples in the sandy deltaic facies (Withnall et al., 1988). In the lower Etheridge Group measurements were corrected for the dip of the beds using Stereonet 7 software (http://www.geo.cornell.edu/geology/faculty/RWA/programs/stereonet-7-for-windows.html). From 4 locations in the Inorunie Group, measurements were taken from trough crossbedding in delta plain facies and planar and trough crossbeds in fluvial facies.

DATA

lower Etheridge Group detrital zircon													
Sample 2007169004 (1937153), Corbett Formation					***New SHRIMP U-Pb zircon ages from north Queensland, 2007–2010***					***Neumann and Kositcin, 2011***			
Grain ID	*206Pbc(%)1*	*U (ppm)*	*Th (ppm)*	*232Th/238U*	*238U/206Pb*	*± 1σ (%)*	*207Pb/206Pb*	*± 1σ(%)*	*207Pb/206Pb Age (Ma)*	*± 1σ (Ma)*	*Disc (%)*		
B.1.1.1	*0.02*	*242*	*111*	*0.48*	*2.6016*	*1.3*	*0.1334*	*0.4*	*2143*	*7*	*2*		
B.11.1.1	*0.01*	*282*	*179*	*0.66*	*1.8584*	*1.4*	*0.2049*	*0.3*	*2866*	*4*	*3*		
B.12.1.1	*0.06*	*259*	*138*	*0.55*	*2.4755*	*1.3*	*0.1471*	*0.4*	*2313*	*7*	*5*		
B.14.1.1	*0.07*	*197*	*110*	*0.58*	*2.7576*	*1.3*	*0.1211*	*0.5*	*1973*	*9*	*-1*		
B.15.1.1	*0.05*	*127*	*184*	*1.5*	*2.0373*	*1.6*	*0.1749*	*0.4*	*2605*	*7*	*1*		
B.16.1.1	*0.02*	*511*	*655*	*1.33*	*3.0869*	*1.2*	*0.1166*	*0.3*	*1905*	*6*	*5*		
B.2.1.1	*0.12*	*23*	*15*	*0.69*	*2.1234*	*1.9*	*0.1614*	*1.2*	*2471*	*20*	*-1*		
B.21.1.1	*0.02*	*284*	*203*	*0.74*	*3.1102*	*1.2*	*0.1128*	*0.5*	*1845*	*8*	*3*		
B.22.1.1	*0.01*	*298*	*72*	*0.25*	*1.4934*	*1.2*	*0.2643*	*0.5*	*3273*	*8*	*-1*		
B.23.1.1	*0.06*	*516*	*266*	*0.53*	*2.8166*	*1.2*	*0.1237*	*0.3*	*2010*	*6*	*3*		
B.24.1.1	*0.03*	*336*	*108*	*0.33*	*2.9755*	*1.3*	*0.1203*	*0.5*	*1961*	*8*	*5*		
B.26.1.1	*0.07*	*146*	*63*	*0.45*	*1.6613*	*1.3*	*0.2362*	*0.3*	*3095*	*5*	*2*		
B.3.1.1	*0.02*	*213*	*71*	*0.35*	*1.9495*	*1.3*	*0.1854*	*0.3*	*2701*	*5*	*1*		
B.37.1.1	*0.07*	*167*	*116*	*0.72*	*2.0485*	*1.3*	*0.1761*	*0.5*	*2617*	*8*	*2*		
B.4.1.1	*0.02*	*234*	*165*	*0.73*	*2.0239*	*1.3*	*0.1746*	*0.3*	*2602*	*5*	*1*		

B.46.1.1	0.06	228	67	0.3	2.0107	1.3	0.1807	0.4	2660	7	2		
B.47.1.1	0.05	384	212	0.57	2.0548	1.3	0.1835	0.3	2685	5	5		
B.48.1.1	0.02	428	170	0.41	2.135	1.3	0.1664	0.3	2522	5	2		
B.49.1.1	0.02	766	267	0.36	3.0279	1.2	0.1154	0.3	1886	6	2		
B.5.1.1	0.01	416	174	0.43	2.0723	1.2	0.1738	0.2	2595	4	2		
B.50.1.1	0.02	352	83	0.24	1.8405	1.3	0.2091	0.3	2899	4	3		
B.52.1.1	0.07	278	35	0.13	3.0496	1.3	0.1176	0.5	1919	9	5		
B.53.1.1	0.02	413	98	0.25	3.0529	1.3	0.1176	0.4	1920	7	5		
B.54.1.1	0.05	240	73	0.31	2.1066	1.3	0.1745	0.4	2602	7	4		
B.55.1.1	0.04	201	95	0.49	2.0946	1.3	0.1728	0.4	2585	7	3		
B.56.1.1	0.02	573	299	0.54	2.1469	1.2	0.1628	0.3	2485	5	1		
B.57.1.1	0.04	274	155	0.58	1.9872	1.3	0.1748	0.4	2604	6	-1		
B.58.1.1	0.02	582	123	0.22	2.1505	1.5	0.1704	0.9	2562	15	4		
B.59.1.1	0.01	552	56	0.1	2.2548	1.2	0.1585	0.3	2440	5	3		
B.6.1.1	0.02	295	302	1.06	2.4496	1.5	0.149	0.3	2335	5	5		
B.61.1.1	0.04	259	61	0.24	2.0928	1.3	0.1722	0.4	2579	6	2		
B.62.1.1	0.03	351	209	0.62	2.123	1.5	0.1624	0.4	2481	6	0		
B.63.1.1	0.08	296	134	0.47	2.8155	1.3	0.1202	0.5	1959	9	0		
B.65.1.1	0.2	101	85	0.87	2.8199	1.8	0.1226	1	1994	17	2		
B.66.1.1	0.03	232	129	0.57	2.1362	1.3	0.1609	0.4	2465	7	0		
B.67.1.1	0.03	440	138	0.32	2.2383	1.4	0.16	1.6	2455	27	3		
B.68.1.1	0.05	164	130	0.82	1.9528	1.4	0.187	0.5	2716	8	2		
B.69.1.1	0.07	220	161	0.76	3.0484	1.3	0.1171	0.7	1912	12	4		
B.7.1.1	0.02	347	303	0.9	2.145	1.2	0.1604	0.3	2460	5	0		
B.71.1.1	0.07	610	228	0.39	2.1374	1.2	0.1735	0.3	2592	4	5		
B.72.1.1	0.03	483	505	1.08	3.1465	1.2	0.1127	0.4	1843	7	3		
B.75.1.1	0.07	135	45	0.35	1.7158	1.4	0.219	0.5	2974	7	0		
B.76.1.1	0.03	335	106	0.33	2.0911	1.3	0.1657	0.4	2515	6	0		
B.77.1.1	0.19	341	129	0.39	3.0532	1.3	0.1181	0.6	1928	10	5		
B.78.1.1	0.02	517	281	0.56	2.1356	1.2	0.1665	0.3	2523	5	2		
B.79.1.1	0.02	931	37	0.04	2.0947	1.3	0.1749	0.2	2605	3	3		
B.8.1.1	0.03	100	63	0.65	1.8105	1.4	0.2121	0.4	2922	7	3		
B.80.1.1	-0.03	88	75	0.89	2.6856	1.5	0.1235	0.9	2008	15	-2		
B.81.1.1	0.12	101	204	2.1	2.8265	1.4	0.1183	0.8	1931	14	-1		
B.82.1.1	0.07	115	49	0.44	1.93	1.4	0.1817	0.5	2669	9	-1		
B.83.1.1	0.07	229	131	0.59	2.1764	1.3	0.1715	0.4	2572	7	5		
B.84.1.1	0.02	464	201	0.45	2.6931	1.3	0.1238	0.4	2012	6	-1		
B.85.1.1	0.03	313	176	0.58	2.0891	1.3	0.1684	0.3	2542	6	1		
B.86.1.1	0.04	181	244	1.39	1.9389	1.3	0.1851	0.4	2699	7	1		
B.9.1.1	0.02	439	242	0.57	2.1823	1.2	0.1634	0.2	2491	4	2		

Sample 2007169003 (1937152), Daniel Creek Formation					New SHRIMP U-Pb zircon ages from north Queensland, 2007–2010					Neumann and Kositcin, 2011			
Grain ID	206Pbc(%)1	U (ppm)	Th (ppm)	232Th/238U	238U/206Pb	± 1σ (%)	207Pb/206Pb	± 1σ(%)	207Pb/206Pb Age (Ma)	± 1σ (Ma)	Disc (%)		
C.1.1.1	0.03	447	314	0.73	2.1539	1.3	0.1664	0.3	2521	5	2		
C.13.1.1	0.03	162	173	1.1	1.8672	1.4	0.1881	0.5	2726	8	-1		
C.14.1.1	0.31	151	74	0.51	2.3652	1.4	0.146	0.7	2300	12	1		
C.15.1.1	0.04	233	191	0.85	1.9581	1.3	0.1872	0.4	2718	7	2		
C.16.1.1	0.02	287	118	0.43	2.5714	1.3	0.1398	0.4	2224	7	5		
C.17.1.1	0.05	88	41	0.49	1.3717	2.1	0.3065	0.5	3503	7	-1		
C.18.1.1	0.05	343	251	0.76	2.1207	1.3	0.1627	0.4	2484	6	0		
C.19.1.1	0.07	194	143	0.76	2.3437	1.3	0.1459	0.5	2298	9	0		
C.2.1.1	0.09	253	221	0.9	2.0865	1.3	0.1812	0.4	2664	6	5		
C.20.1.1	0.04	285	179	0.65	2.008	1.3	0.1854	0.3	2702	6	4		
C.22.1.1	0.01	487	254	0.54	2.3152	1.2	0.1504	0.3	2351	5	2		
C.23.1.1	0.03	531	195	0.38	2.3128	1.2	0.1477	0.3	2319	5	0		
C.24.1.1	0.04	305	206	0.7	2.196	1.3	0.1658	0.4	2516	6	4		
C.25.1.1	0.04	1668	7	0	2.4047	1.9	0.1513	1.4	2361	24	5		
C.26.1.1	0.13	96	40	0.43	2.2583	1.4	0.1599	0.7	2455	11	4		
C.27.1.1	0.18	132	58	0.45	2.9311	1.4	0.1169	0.8	1909	14	1		
C.28.1.1	0.12	79	31	0.41	1.7587	1.5	0.2225	0.6	2999	10	3		
C.29.1.1	0.04	230	72	0.32	1.8723	1.3	0.1881	0.3	2725	6	-1		
C.30.1.1	0.04	390	219	0.58	1.9966	1.2	0.1736	0.3	2593	5	-1		
C.31.1.1	0.03	193	64	0.34	1.8866	1.4	0.1866	0.4	2712	6	-1		
C.32.1.1	0.07	613	316	0.53	2.8962	1.2	0.1205	0.3	1963	6	3		
C.33.1.1	0.05	107	63	0.61	1.8124	1.4	0.2114	0.5	2917	7	3		
C.35.1.1	0.02	352	167	0.49	2.181	1.2	0.1642	0.3	2500	5	3		
C.36.1.1	0.04	322	167	0.54	2.0233	1.3	0.1759	0.3	2614	5	1		
C.37.1.1	0.05	181	127	0.72	2.6328	1.4	0.1336	0.5	2145	9	3		
C.38.1.1	0.06	396	52	0.14	3.0742	1.2	0.1174	0.4	1916	7	5		
C.40.1.1	0.13	37	53	1.47	2.169	1.7	0.1699	1.6	2557	26	4		
C.43.1.1	0.04	256	142	0.57	2.2354	1.3	0.1542	0.4	2393	6	0		
C.44.1.1	0.05	210	231	1.13	2.0595	1.6	0.1742	0.4	2599	6	2		
C.45.1.1	0.19	317	125	0.41	2.2191	1.2	0.1622	0.4	2478	6	3		
C.47.1.1	0.03	333	254	0.79	2.1596	1.2	0.1617	0.3	2473	5	1		
C.48.1.1	0.04	281	157	0.58	2.0576	1.4	0.1735	0.3	2592	6	1		
C.49.1.1	0.15	120	99	0.85	2.1668	1.4	0.1645	0.6	2503	10	2		
C.5.1.1	-0.01	218	76	0.36	2.066	1.5	0.1787	0.8	2641	13	4		
C.50.1.1	0.02	546	229	0.43	2.1157	0.9	0.163	0.3	2487	4	0		
C.51.1.1	0	449	228	0.52	3.022	0.9	0.1149	0.4	1878	7	2		
C.52.1.1	0.04	271	216	0.82	1.9419	1	0.1865	0.3	2711	6	1		
C.53.1.1	0.02	430	674	1.62	1.9891	0.9	0.1773	0.3	2628	5	0		

C.54.1.1	0.07	299	200	0.69	2.0448	1	0.1747	0.4	2604	6	1		
C.55.1.1	0.06	195	73	0.39	2.3769	1.1	0.1473	0.5	2315	8	2		
C.56.1.1	0.03	110	208	1.96	1.9739	1.1	0.1866	0.5	2713	9	3		
C.57.1.1	0.06	238	239	1.04	2.9102	1	0.1185	0.5	1934	10	2		
C.59.1.1	0.02	593	92	0.16	2.1606	1	0.1671	0.2	2529	4	3		
C.6.1.1	0.04	252	201	0.82	2.3487	1.3	0.1484	0.4	2327	7	2		
C.60.1.1	0.19	98	59	0.62	1.9988	1.2	0.1809	0.6	2661	10	2		
C.61.1.1	0.05	467	323	0.71	2.1703	1	0.1717	0.3	2574	5	5		
C.62.1.1	0.06	244	160	0.68	1.9386	1	0.1879	0.3	2724	6	2		
C.63.1.1	0.13	408	366	0.93	2.6463	0.9	0.1365	0.4	2184	6	5		
C.64.1.1	0.06	507	140	0.28	3.0892	1	0.1119	0.4	1831	7	1		
C.65.1.1	0.05	312	161	0.53	2.2194	1	0.1554	0.4	2407	6	0		
C.66.1.1	0.1	126	149	1.22	2.0318	1.1	0.1745	0.5	2601	9	1		
C.68.1.1	0.24	131	86	0.68	2.8991	1.1	0.1202	0.8	1960	15	3		
C.69.1.1	0.04	269	135	0.52	2.0361	1	0.1754	0.3	2610	6	1		
C.7.1.1	0.08	204	156	0.79	2.7803	1.3	0.1222	0.6	1988	10	0		
C.70.1.1	0.03	625	118	0.19	2.2416	0.9	0.1639	0.2	2496	4	5		
C.71.1.1	0.02	582	254	0.45	2.3801	0.9	0.1509	0.3	2356	4	4		
C.72.1.1	0.05	281	72	0.27	2.7619	1.1	0.1277	0.4	2066	8	4		
C.73.1.1	0.01	382	133	0.36	1.9319	0.9	0.1895	0.3	2738	4	2		
C.74.1.1	0.03	539	415	0.8	2.1858	0.9	0.1638	0.3	2496	4	3		
C.77.1.1	0.16	94	103	1.13	2.7596	1.2	0.1266	1	2051	17	3		
C.78.1.1	0.03	232	131	0.59	3.208	1	0.1122	0.6	1835	10	5		
C.79.1.1	0.03	224	73	0.34	1.9403	1	0.1878	0.4	2723	6	2		
C.8.1.1	0.08	170	133	0.81	2.11	1.4	0.1758	0.7	2613	11	4		
C.80.1.1	0.04	203	59	0.3	1.9894	1.6	0.1821	0.7	2672	12	2		
C.81.1.1	0.01	193	159	0.85	1.9233	1	0.1842	0.5	2691	9	0		
C.82.1.1	0.06	347	177	0.53	2.0052	1	0.1844	1.3	2693	22	3		
C.83.1.1	0.05	268	134	0.52	2.2201	1.2	0.1578	0.4	2432	7	1		
C.84.1.1	0.04	473	264	0.58	2.1174	1	0.1633	0.3	2490	5	0		
C.85.1.1	0.05	228	86	0.39	2.9877	1	0.1159	0.6	1894	10	2		
C.86.1.1	0.01	508	222	0.45	2.0943	0.9	0.1682	0.3	2540	4	1		
C.87.1.1	0.01	674	239	0.37	2.2491	0.9	0.1558	0.2	2411	4	2		
Sample 2007169004 (1937153), Corbett Formation					***New SHRIMP U-Pb zircon ages from north Queensland, 2007–2010***					***Neumann and Kositcin, 2011***			
Grain ID	*206Pbc(%)1*	*U (ppm)*	*Th (ppm)*	*232Th/238U*	*238U/206Pb*	*± 1σ (%)*	*207Pb/206Pb*	*± 1σ(%)*	*207Pb/206Pb Age (Ma)*	*± 1σ (Ma)*	*Disc (%)*		
D.1.1.1	0.04	90	49	0.56	2.6857	1.6	0.1292	0.8	2086	14	2		
D.10.1.1	0.03	250	160	0.66	2.3637	1.4	0.1506	0.3	2353	6	3		
D.11.1.1	0.03	309	180	0.6	2.0726	1.4	0.1746	0.3	2602	4	2		
D.12.1.1	0.08	228	106	0.48	3.2019	1.4	0.1092	0.5	1785	10	2		

D.13.1.1	0.01	356	144	0.42	2.2177	1.4	0.164	0.3	2497	4	4		
D.14.1.1	-0.02	236	125	0.55	2.477	1.6	0.1353	0.4	2167	6	-1		
D.15.1.1	0	204	85	0.43	3.0745	1.4	0.113	0.4	1849	8	2		
D.17.1.1	0.04	346	32	0.09	2.9057	0.9	0.1202	0.4	1959	7	3		
D.18.1.1	0.21	55	66	1.24	2.1381	1.3	0.1677	0.7	2535	12	2		
D.19.1.1	0.05	269	101	0.39	2.9622	1	0.1164	0.5	1902	8	1		
D.2.1.1	0.03	188	91	0.5	2.3889	1.6	0.1486	0.5	2330	9	3		
D.20.1.1	0.04	429	217	0.52	2.98	1.1	0.1151	0.4	1881	6	1		
D.21.1.1	0.05	460	427	0.96	2.9479	0.9	0.1173	0.4	1915	6	2		
D.22.1.1	0.02	501	167	0.34	2.0284	0.9	0.1743	0.2	2599	4	1		
D.23.1.1	0.05	308	307	1.03	1.9761	1	0.1871	0.3	2717	5	3		
D.25.1.1	0.05	402	11	0.03	2.7534	0.9	0.125	0.4	2028	7	2		
D.27.1.1	0.04	351	416	1.23	2.8106	0.9	0.1225	0.4	1993	7	2		
D.28.1.1	0.08	238	251	1.09	2.7484	1	0.1256	0.5	2038	9	2		
D.29.1.1	0.02	102	32	0.32	1.8055	1.1	0.2112	0.5	2914	8	3		
D.3.1.1	0.08	169	50	0.31	1.9487	1.5	0.1973	0.4	2804	7	5		
D.30.1.1	0.05	407	139	0.35	2.1091	0.9	0.1752	0.3	2608	5	4		
D.31.1.1	0.07	264	186	0.73	2.9412	1	0.1158	0.5	1892	9	0		
D.32.1.1	0.17	81	43	0.55	2.0553	1.5	0.1647	0.7	2504	12	-2		
D.33.1.1	0.11	353	175	0.51	3.1103	1.3	0.1162	0.5	1898	8	5		
D.34.1.1	0.08	118	59	0.52	2.676	1.4	0.13	0.7	2098	13	2		
D.35.1.1	0.05	190	80	0.44	2.4948	1.6	0.1354	0.5	2169	9	0		
D.36.1.1	0.03	316	81	0.26	2.5984	1.3	0.1303	0.4	2103	7	0		
D.37.1.1	0.05	132	67	0.52	2.136	1.4	0.1637	0.5	2495	9	1		
D.38.1.1	0.12	129	54	0.43	2.3756	1.4	0.1467	0.6	2308	10	2		
D.39.1.1	0.01	514	100	0.2	2.0243	1.3	0.1765	0.4	2621	6	1		
D.4.1.1	0.06	167	150	0.93	2.1189	1.5	0.1677	0.5	2534	8	2		
D.40.1.1	0.03	281	102	0.37	3.1701	1.4	0.109	0.5	1782	9	1		
D.41.1.1	0.05	191	112	0.61	2.0362	1.4	0.171	0.4	2568	7	0		
D.42.1.1	0.05	270	103	0.39	2.7514	1.3	0.1231	0.5	2002	8	0		
D.43.1.1	0.03	306	110	0.37	1.4791	1.3	0.2735	0.2	3326	4	0		
D.44.1.1	0.2	82	47	0.6	2.9329	1.5	0.1164	1	1902	18	1		
D.45.1.1	0.01	318	137	0.45	2.0216	1.3	0.1745	0.3	2602	5	0		
D.46.1.1	0.03	216	92	0.44	2.0343	1.3	0.174	0.4	2596	6	1		
D.47.1.1	0.07	121	32	0.28	2.7954	1.4	0.1225	0.8	1992	13	1		
D.48.1.1	0.1	81	44	0.56	1.8827	1.5	0.1866	0.6	2713	11	-1		
D.49.1.1	0.11	126	46	0.38	2.9403	1.7	0.1181	0.7	1927	13	2		
D.5.1.1	0.05	128	114	0.92	1.9071	1.5	0.1902	0.4	2744	6	1		
D.50.1.1	0.32	87	43	0.52	3.0047	1.5	0.1148	1.2	1877	21	1		
D.51.1.1	0.06	453	143	0.33	3.058	1.3	0.1144	0.4	1870	6	2		
D.52.1.1	0.16	86	49	0.59	2.0916	1.4	0.1708	0.6	2566	10	2		
D.53.1.1	0.3	72	67	0.96	2.7769	1.5	0.1224	1.1	1992	20	0		

D.54.1.1	0.07	124	78	0.65	2.0491	1.4	0.1747	0.5	2604	8	2		
D.56.1.1	0.15	248	249	1.04	3.0506	1.3	0.1108	0.6	1812	10	-1		
D.57.1.1	0.09	86	41	0.5	1.828	1.4	0.2125	0.5	2924	9	4		
D.58.1.1	0.08	314	124	0.41	2.8344	1.3	0.1216	0.4	1980	8	2		
D.59.1.1	0.03	357	166	0.48	2.8086	1.3	0.1196	0.4	1950	7	-1		
D.6.1.1	0	305	36	0.12	2.1298	1.4	0.1709	0.3	2566	4	3		
D.60.1.1	0.13	77	31	0.41	2.9339	1.5	0.1191	0.9	1943	17	3		
D.61.1.1	0.07	385	172	0.46	3.0091	1.3	0.115	0.4	1880	8	2		
D.62.1.1	0.05	185	169	0.95	2.5047	1.3	0.1392	0.5	2217	9	2		
D.63.1.1	0.14	145	67	0.48	2.9029	1.4	0.1178	0.7	1924	13	1		
D.64.1.1	0	161	129	0.83	1.917	1.3	0.1845	0.4	2694	7	0		
D.65.1.1	0.15	265	119	0.46	2.8867	1.3	0.1233	0.5	2005	9	4		
D.66.1.1	0.05	109	39	0.37	2.871	1.4	0.116	1	1895	17	-2		
D.67.1.1	0.04	147	188	1.32	2.0378	1.4	0.1755	0.5	2611	8	1		
D.68.1.1	0	118	118	1.04	1.861	1.4	0.1884	0.6	2728	10	-2		
D.69.1.1	0.06	84	60	0.73	1.8189	1.5	0.1976	0.6	2807	9	-1		
D.7.1.1	-0.01	268	134	0.52	2.0326	1.4	0.1752	0.3	2608	5	1		
D.70.1.1	0.05	320	164	0.53	2.1011	1.3	0.1617	0.3	2474	6	-1		
D.71.1.1	0.07	249	118	0.49	3.0715	1.3	0.1093	0.6	1788	11	-2		
D.72.1.1	0.08	213	151	0.73	2.7816	1.5	0.1212	0.6	1975	10	0		
D.73.1.1	0.06	301	261	0.89	2.7311	1.3	0.1223	0.5	1990	8	-1		
D.74.1.1	0.13	53	20	0.39	1.8952	1.6	0.19	0.8	2742	13	0		
D.8.1.1	0.02	190	163	0.89	1.9583	1.5	0.1858	0.3	2705	5	2		
D.9.1.1	0.02	161	72	0.46	2.0763	1.5	0.1747	0.4	2603	6	3		

GA sample ID 1977852, Lane Creek Formation					***Basin analysis and the geochemical signature of Paleoproterozoic sedimentary successions in northern Australia: Constraints on basin development in respect to mineralisation and paleoreconstruction models***							***Lambeck, 2011***	
Grain ID	206Pbc(%)1	U (ppm)	Th (ppm)	232Th/238U	238U/206Pb	± 1σ (%)	207Pb/206Pb	± 1σ(%)	206Pb/238U Age (Ma)	± 1σ(%)	207Pb/206Pb Age (Ma)	± 1σ (Ma)	Disc (%)
852.61.1.1	0.02	906	298	0.34	3.2208	1.31	0.1087	0.3	1743	20.8	1775	5.5	3
852.22.1.1	0.02	439	237	0.56	3.1215	1.35	0.1093	0.4	1791	22.6	1785	7.9	2
852.20.1.1	0.04	239	102	0.44	3.2034	1.68	0.1095	0.6	1750	27.2	1785	11.1	2
852.25.1.1	-0.01	434	172	0.41	3.1904	1.35	0.1092	0.4	1757	21.8	1787	7.8	2
852.5.1.1	0	327	133	0.42	3.2237	1.38	0.1093	0.5	1743	22.2	1788	9	1
852.81.1.1	0.03	294	104	0.37	3.1155	1.4	0.1097	0.5	1794	23	1790	10.5	2
852.8.1.1	-0.01	478	395	0.86	3.1536	1.34	0.1094	0.5	1777	23.3	1792	8.5	0
852.57.1.1	0.05	147	61	0.43	3.1089	1.5	0.1109	1.1	1796	24.8	1806	20.7	0
852.84.1.1	0.22	82	44	0.55	3.0951	1.69	0.1124	1	1805	28.6	1807	22.7	1
852.49.1.1	0.14	81	63	0.8	3.0252	1.66	0.1121	0.9	1845	29.7	1815	21.9	2
852.53.1.1	0.04	138	75	0.56	2.982	1.51	0.1114	1.1	1863	26.3	1817	21.2	0
852.55.1.1	-0.07	237	88	0.38	3.1333	1.57	0.1107	0.6	1785	25.8	1820	11	1

852.66.1.1	0.41	56	54	1	3.0784	1.83	0.1151	1.2	1807	33.4	1824	30.8	1
852.10.1.1	0.05	267	94	0.36	3.0805	1.39	0.1122	0.5	1812	23	1828	10.5	1
852.46.2.1	0.13	85	63	0.76	3.0532	1.72	0.1129	0.9	1835	30.3	1829	20.7	3
852.82.1.1	-0.01	458	129	0.29	3.0383	1.63	0.1117	0.4	1836	26.9	1829	7.4	1
852.47.1.1	0.01	645	349	0.56	3.0939	1.32	0.1119	0.3	1805	22.3	1829	6.4	2
852.54.1.1	0.05	227	92	0.42	3.0417	1.42	0.1122	0.6	1831	23.9	1829	10.8	3
852.71.1.1	0.14	83	60	0.75	3.001	1.76	0.1131	0.9	1856	31.4	1830	22.3	3
852.59.1.1	0.03	577	50	0.09	3.0492	1.41	0.1123	0.4	1829	22.8	1833	6.7	1
852.41.1.1	-0.01	424	304	0.74	3.1077	1.35	0.1121	0.4	1797	23.3	1835	7.5	1
852.31.1.1	0.01	315	330	1.08	3.0753	1.38	0.1122	0.5	1817	25.2	1835	8.8	0
852.11.1.1	0.13	107	44	0.43	3.0492	1.57	0.1134	0.8	1827	26.3	1837	17.6	1
852.64.1.1	0.04	60	42	0.72	2.9861	1.88	0.1128	1.1	1857	33.5	1838	20.5	0
852.40.1.1	0.01	1175	92	0.08	3.032	1.3	0.1129	0.2	1837	20.9	1845	4.5	1
852.56.1.1	-0.01	252	101	0.41	3.0444	1.41	0.1128	0.5	1831	23.6	1847	9.7	0
852.29.1.1	0	282	166	0.61	3.0578	1.39	0.113	0.5	1824	23.9	1848	9	0
852.33.1.1	0.01	449	57	0.13	3.0426	1.34	0.1132	0.4	1831	21.7	1851	7.2	0
852.32.1.1	0.02	728	272	0.39	3.0338	1.32	0.1136	0.3	1837	22.2	1855	5.8	1
852.14.1.1	0.07	95	54	0.59	3.0407	1.6	0.1144	0.8	1821	27.7	1861	16.9	-1
852.73.1.1	0.02	433	108	0.26	3.0746	1.35	0.1141	0.4	1814	22.1	1864	7.9	1
852.18.1.1	-0.02	485	229	0.49	3.001	1.34	0.1144	0.4	1852	22.9	1873	6.7	-1
852.43.1.1	0.04	449	120	0.28	2.9888	1.34	0.115	0.4	1862	22.4	1874	7.7	-1
852.21.1.1	0.01	88	12	0.14	2.9412	1.62	0.1148	0.9	1886	27	1875	15.7	1
852.50.1.1	0.04	385	216	0.58	2.9252	1.36	0.1151	0.4	1894	24	1877	7.9	-3
852.42.1.1	-0.02	159	127	0.83	3.0599	1.48	0.1148	0.7	1822	26.2	1880	12.3	1
852.63.2.1	0.24	36	36	1.03	2.7862	2.05	0.1173	1.3	1972	40.3	1883	39.5	2
852.27.1.1	0.01	54	21	0.41	3.0535	1.81	0.1157	1.2	1823	30.4	1890	21.5	2
852.16.1.1	-0.01	156	30	0.2	2.9676	1.48	0.1159	0.7	1872	24.7	1896	11.9	-1
852.4.1.1	0.04	304	246	0.84	2.935	1.39	0.117	0.5	1886	25.4	1906	9.3	1
852.3.1.1	0.07	125	75	0.62	2.9383	1.54	0.1178	0.8	1890	27.4	1914	14.6	1
852.9.1.1	0.13	134	201	1.55	2.9421	1.51	0.1187	0.8	1881	31	1919	16.8	-1
852.28.1.1	0.04	351	179	0.53	2.9459	1.36	0.118	0.4	1884	23.8	1921	8	3
852.13.1.1	0.02	336	184	0.57	2.9053	1.36	0.1182	0.4	1907	24.2	1927	8.1	2
852.17.1.1	0	426	197	0.48	2.8941	1.35	0.118	0.4	1912	23.6	1927	7	1
852.44.1.1	0.05	152	83	0.57	2.8646	1.48	0.1186	0.7	1929	26.6	1928	12.9	1
852.19.1.1	0.01	713	265	0.38	2.8792	1.32	0.1182	0.3	1921	22.9	1928	5.5	1
852.30.1.1	0.09	166	222	1.38	2.8877	1.47	0.119	0.7	1916	29.5	1930	13.4	3
852.48.1.1	-0.07	75	49	0.68	2.9053	1.69	0.1187	0.9	1906	30.4	1947	17.6	0
852.52.1.1	-0.05	133	67	0.52	2.928	1.51	0.1193	0.9	1894	26.6	1953	17.3	0
852.62.1.1	0.01	197	189	0.99	2.8797	1.44	0.121	0.6	1918	27.3	1970	10.2	-5
852.67.1.1	-0.02	285	196	0.71	2.7704	1.39	0.1225	0.5	1985	25.9	1995	8.3	0
852.12.1.1	0.28	63	55	0.89	2.6767	1.74	0.128	1	2045	34.4	2036	23	3
852.85.1.1	0.14	173	93	0.55	2.6314	1.48	0.1282	0.6	2076	28.1	2056	12.6	0

852.80.1.1	0.11	433	143	0.34	2.5578	1.36	0.1294	0.4	2125	25.7	2077	7.6	2
852.65.1.1	0.02	439	193	0.45	2.6165	1.35	0.1288	0.4	2087	25.3	2078	6.5	-1
852.38.1.1	0.03	150	59	0.41	2.6572	1.48	0.1298	0.8	2058	27.4	2092	14.7	0
852.26.1.1	-0.03	88	46	0.54	2.6888	1.62	0.1296	0.8	2038	30.3	2096	14.2	-2
852.60.1.1	0.01	618	328	0.55	2.3327	1.41	0.1473	0.3	2300	29	2314	4.8	1
852.6.1.1	0.04	129	119	0.95	2.3262	1.53	0.1533	0.6	2301	33.3	2378	11.3	3
852.70.1.1	0.03	246	109	0.46	2.2041	1.41	0.1613	0.4	2413	29.8	2467	7.4	2
852.34.1.1	-0.08	49	22	0.47	2.2283	2.88	0.1604	0.9	2387	60.6	2467	15.6	3
852.39.1.1	0.01	287	127	0.46	2.1698	1.38	0.1623	0.4	2443	29.6	2479	6.2	1
852.23.1.1	0.03	83	36	0.44	2.0995	1.63	0.1689	0.7	2514	35.7	2543	11.4	1
852.15.1.1	0.05	122	85	0.72	2.0446	1.52	0.1717	0.5	2563	35	2570	9.3	0
852.51.1.1	0.02	291	104	0.37	2.0463	1.54	0.1725	0.6	2564	33.9	2581	10.2	1
852.76.1.1	-0.01	522	411	0.81	2.0433	1.34	0.1734	0.3	2567	31	2591	4.4	1
852.77.1.1	0	382	112	0.3	2.0165	1.36	0.1735	0.3	2596	30	2592	5.2	0
852.72.1.1	0.01	76	36	0.5	2.0499	1.7	0.1737	0.7	2557	37.9	2593	11.7	1
852.7.1.1	0.01	416	62	0.15	2.0449	1.37	0.1738	0.3	2566	29.5	2594	4.9	1
852.75.1.1	0.01	202	93	0.47	1.9985	1.49	0.1738	0.4	2616	33.6	2594	7.2	-1
852.45.1.1	0.02	353	289	0.84	2.0573	1.37	0.177	0.7	2549	31.7	2624	12.4	3
852.1.1.1	0.02	521	85	0.17	1.9939	1.5	0.1785	0.3	2620	32.8	2637	4.4	1
852.36.1.1	0.05	172	58	0.35	1.9738	1.49	0.181	1.2	2645	33.5	2658	19.5	1
852.35.1.1	0	160	96	0.62	1.9693	1.47	0.1819	0.4	2647	34.1	2670	7.4	1
852.83.1.1	0.03	222	76	0.35	2.0015	1.43	0.1836	0.4	2616	31.8	2684	6.7	3
852.69.1.1	0.02	391	218	0.57	1.9852	1.35	0.1851	0.3	2624	31	2697	5.4	3
852.37.1.1	0.01	250	177	0.73	1.9368	1.39	0.1873	0.3	2687	33.1	2718	5.8	1
852.68.1.1	0.88	85	67	0.81	1.8887	1.64	0.1957	1.3	2741	40.4	2723	42.1	0
852.78.1.1	0.03	109	78	0.74	1.911	1.57	0.1918	0.5	2714	37.7	2755	9.2	2
852.74.1.1	0.02	430	51	0.12	1.9328	1.35	0.1933	0.6	2689	30.1	2769	9.3	3
852.2.1.1	0	278	321	1.19	1.9279	1.69	0.1957	0.3	2693	42.5	2791	5.7	4
852.79.1.1	0.03	110	33	0.31	1.7525	1.58	0.2033	0.5	2909	38.2	2851	8.7	-2
852.24.1.1	0.12	82	75	0.94	1.7719	1.63	0.2098	0.6	2879	42	2896	9.9	1

upper Etheridge- and Langlovale Group detrital zircon											
Sample 2007169005 (1937154), Townley Formation					***New SHRIMP U-Pb zircon ages from north Queensland, 2007–2010***					***Neumann and Kositcin, 2011***	
Grain ID	*206Ppbc(%)1*	*U (ppm)*	*Th (ppm)*	*232Th/238U*	*238U/206Pb*	*± 1σ (%)*	*207Pb/206Pb*	*± 1σ(%)*	*207Pb/206Pb Age (Ma)*	*± 1σ (Ma)*	*Disc (%)*
E.1.1.1	*0.17*	*69*	*53*	*0.8*	*3.0816*	*1.7*	*0.1115*	*1*	*1823*	*18*	*1*
E.10.1.1	*0.07*	*289*	*94*	*0.34*	*3.3721*	*1.2*	*0.1076*	*0.4*	*1759*	*8*	*5*
E.11.1.1	*0.04*	*178*	*133*	*0.77*	*2.5566*	*1.3*	*0.1365*	*0.4*	*2183*	*7*	*3*
E.12.1.1	*0.08*	*90*	*23*	*0.27*	*3.2217*	*1.4*	*0.1119*	*0.8*	*1830*	*14*	*5*
E.13.1.1	*0.01*	*118*	*33*	*0.28*	*2.066*	*1.3*	*0.1795*	*0.4*	*2648*	*7*	*4*

E.14.1.1	0.11	121	104	0.89	2.8656	1.3	0.124	0.6	2015	11	4
E.15.1.1	-0.02	99	45	0.47	2.9724	1.4	0.1213	0.6	1976	11	5
E.16.1.1	0.07	338	221	0.67	3.448	1.2	0.1017	0.5	1656	8	1
E.18.1.1	0.02	352	84	0.25	2.0537	1.2	0.1842	0.2	2691	4	5
E.19.1.1	0.16	73	91	1.28	3.4072	1.4	0.1006	0.9	1635	17	-1
E.2.1.1	0.02	226	152	0.7	1.4738	1.3	0.2763	0.2	3342	4	0
E.20.1.1	0.05	193	34	0.18	3.113	1.3	0.1127	0.5	1843	9	3
E.26.1.1	0.08	180	62	0.36	3.2559	1.3	0.1084	0.5	1773	10	3
E.27.1.1	0.09	206	144	0.72	3.4457	1.3	0.1016	0.5	1653	10	1
E.28.1.1	0.03	217	228	1.08	2.1055	1.2	0.1746	0.3	2602	5	4
E.3.1.1	0.12	89	26	0.3	3.1844	1.4	0.1082	0.8	1769	15	0
E.30.1.1	0.01	178	98	0.57	2.0662	1.3	0.1715	0.4	2572	6	1
E.31.1.1	0.07	523	84	0.17	3.0564	1.2	0.1125	0.4	1841	7	1
E.32.1.1	0.2	195	88	0.46	2.8011	1.3	0.1204	0.8	1963	14	0
E.33.1.1	0.1	196	147	0.78	3.5449	1.3	0.1013	0.6	1648	11	3
E.37.1.1	0.13	117	55	0.49	2.4951	1.3	0.1436	1.2	2271	21	4
E.4.1.1	0.14	55	20	0.37	2.0217	1.5	0.1868	0.6	2714	10	5
E.42.1.1	0.16	95	77	0.84	3.519	1.4	0.1007	0.9	1636	17	1
E.43.1.1	0.07	385	310	0.83	3.3863	1.2	0.1012	0.4	1646	8	-1
E.44.1.1	0.06	151	80	0.55	2.2987	1.8	0.1469	0.4	2310	8	-1
E.45.1.1	0.04	239	116	0.5	2.0158	1.3	0.1715	0.3	2573	5	-1
E.46.1.1	0.09	181	53	0.3	1.8983	1.3	0.2018	0.5	2841	8	4
E.47.1.1	0.05	155	79	0.53	1.7972	1.3	0.2185	0.3	2970	5	4
E.49.1.1	0.22	112	84	0.78	3.5592	1.4	0.1004	1.1	1632	20	2
E.5.1.1	0.04	267	319	1.23	3.5883	1.3	0.1015	0.5	1651	9	4
E.50.1.1	0.07	218	149	0.71	3.4775	1.3	0.102	0.6	1661	11	2
E.51.1.1	0.18	91	102	1.16	3.6856	1.4	0.1007	1	1637	19	5
E.56.1.1	0.11	124	55	0.46	3.0639	1.4	0.112	0.8	1832	15	1
E.57.1.1	0.14	201	238	1.22	3.0354	1.3	0.1128	0.6	1846	11	1
E.58.1.1	0.09	127	67	0.54	2.9866	1.4	0.1119	0.8	1830	14	-2
E.59.1.1	0.03	341	97	0.29	3.218	1.2	0.1075	0.4	1757	8	1
E.6.1.1	0.04	182	118	0.67	3.5344	1.4	0.1017	0.6	1656	10	3
E.60.1.1	0.13	133	61	0.47	2.6699	1.4	0.1283	0.7	2075	13	1
E.61.1.1	0.06	132	118	0.93	3.5462	1.3	0.1028	0.7	1676	13	4
E.66.1.1	0.03	347	143	0.43	3.2581	1.3	0.1109	0.5	1815	9	5
E.67.1.1	0.08	223	168	0.78	3.4651	1.3	0.1006	0.7	1635	13	0
E.68.1.1	0.09	99	73	0.76	3.4873	1.5	0.1032	1.1	1682	20	3

E.69.1.1	0.02	208	219	1.09	3.4734	1.7	0.1019	0.8	1658	14	2
E.7.1.1	0.07	221	55	0.26	3.2027	1.4	0.1087	0.5	1779	9	2
E.70.1.1	0.01	270	168	0.64	2.0386	1.3	0.1726	0.4	2583	6	0
E.71.1.1	0.03	354	266	0.78	3.4138	1.3	0.1013	0.6	1647	10	-1
E.8.1.1	0.01	268	383	1.48	2.9371	1.3	0.1197	0.4	1952	7	3
Sample 2007169006 (1937155), Heliman Formation					**New SHRIMP U-Pb zircon ages from north Queensland, 2007–2010**					**Neumann and Kositcin, 2011**	
Grain ID	206Pbc(%)1	U (ppm)	Th (ppm)	232Th/238U	238U/206Pb	± 1σ (%)	207Pb/206Pb	± 1σ(%)	207Pb/206Pb Age (Ma)	± 1σ (Ma)	Disc (%)
C.1.1.1	0.08	231	85	0.38	3.3211	1.2	0.1081	0.6	1767	12	4
C.10.1.1	0.04	430	157	0.38	3.1848	1.2	0.107	0.4	1749	7	-1
C.11.1.1	0.09	298	205	0.71	3.4428	1.2	0.1019	0.5	1658	9	1
C.12.1.1	0.08	164	115	0.72	3.4913	1.2	0.1012	0.7	1647	13	1
C.13.1.1	0.13	192	169	0.91	3.4628	1.2	0.1002	0.8	1627	14	-1
C.14.1.1	0.21	687	538	0.81	3.596	1.1	0.1013	0.4	1647	8	4
C.15.1.1	0.15	443	140	0.33	3.0393	1.1	0.1132	0.4	1851	7	1
C.17.1.1	0.3	125	157	1.29	3.4666	1.3	0.0999	1	1622	19	-1
C.18.1.1	0.11	225	232	1.06	3.4936	1.2	0.1009	0.6	1640	12	1
C.19.1.1	0.03	269	316	1.22	3.4481	1.2	0.1014	0.5	1650	9	0
C.2.1.1	0.07	169	157	0.96	3.5658	1.2	0.1025	0.7	1669	13	5
C.20.1.1	0.02	113	173	1.58	3.4053	1.4	0.1021	0.9	1663	16	0
C.21.1.1	0.08	224	325	1.5	3.5518	1.2	0.1015	0.7	1651	14	3
C.22.1.1	0.05	163	52	0.33	3.2834	1.3	0.1089	0.9	1782	16	4
C.25.1.1	0.02	134	82	0.63	1.9511	1.2	0.1834	0.4	2684	7	1
C.26.1.1	0.1	190	201	1.09	3.4711	1.2	0.1013	0.7	1648	13	1
C.27.1.1	0.04	523	373	0.74	3.4089	1.1	0.1015	0.4	1652	7	0
C.3.1.1	0.02	136	101	0.77	3.4462	1.3	0.1028	0.7	1676	13	2
C.30.1.1	0.04	151	151	1.03	3.4634	1.2	0.1023	0.6	1666	11	2
C.31.1.1	-0.01	309	201	0.67	3.5636	1.2	0.1025	0.4	1670	8	5
C.32.1.1	0.03	418	163	0.4	2.6399	1.1	0.1343	0.4	2155	6	4
C.33.1.1	0.14	100	74	0.76	3.4818	1.9	0.1029	1	1676	19	3
C.36.1.1	0.1	322	96	0.31	3.2119	1.2	0.1081	0.5	1768	9	1
C.38.1.1	0.01	407	118	0.3	2.9545	1.3	0.112	0.4	1833	7	-3
C.39.1.1	0.04	229	232	1.05	3.4434	1.2	0.1017	0.5	1654	10	1
C.4.1.1	0.04	335	431	1.33	3.395	1.2	0.1014	0.5	1651	9	-1
C.41.1.1	0.17	173	146	0.88	3.4682	1.2	0.1005	0.8	1633	14	0
C.42.1.1	0	127	48	0.39	3.5808	1.3	0.1028	0.7	1675	12	5

C.44.1.1	0.1	172	144	0.86	3.4713	1.2	0.1016	0.7	1654	14	1
C.45.1.1	0.03	136	123	0.94	3.5102	1.3	0.1019	0.7	1659	13	3
C.47.1.1	-0.05	134	119	0.92	3.5898	1.3	0.1019	0.7	1659	13	5
C.48.1.1	0.08	276	275	1.03	3.3535	1.2	0.1006	0.5	1635	10	-3
C.49.1.1	0.04	247	230	0.96	3.4888	1.2	0.1014	0.5	1650	9	2
C.5.1.1	0.01	389	462	1.23	3.6195	1.1	0.1017	0.4	1655	8	5
C.50.1.1	0.06	241	267	1.14	3.4005	1.3	0.1017	0.5	1656	10	0
C.51.1.1	0.04	384	138	0.37	2.7402	1.1	0.1237	0.4	2010	7	0
C.52.1.1	0.01	229	143	0.65	3.4804	1.2	0.1023	0.6	1666	11	2
C.53.1.1	0.13	236	356	1.56	3.4029	1.2	0.101	0.6	1642	12	-1
C.54.1.1	0.02	327	359	1.13	3.4986	1.2	0.1018	0.4	1657	8	2
C.55.1.1	0.06	436	360	0.85	2.8863	1.1	0.12	0.3	1956	6	2
C.56.1.1	0.16	141	155	1.13	3.5166	1.2	0.1011	0.8	1645	15	2
C.57.1.1	0.14	604	358	0.61	2.9406	1.1	0.1149	0.4	1879	6	0
C.58.1.1	0.16	272	177	0.67	3.4055	1.2	0.1013	0.6	1649	11	-1
C.59.1.1	0.06	219	229	1.08	3.4358	1.2	0.1018	0.7	1658	13	1
C.6.1.1	0.2	142	147	1.08	3.6576	1.3	0.1006	0.9	1636	17	5
C.60.1.1	0.02	263	144	0.56	1.6447	1.2	0.2189	0.3	2972	4	-3
C.61.1.1	0.02	279	308	1.14	1.9114	1.2	0.1893	0.3	2736	4	1
C.62.1.1	0	162	204	1.3	3.475	1.2	0.102	0.5	1661	10	2
C.63.1.1	0.02	443	126	0.29	3.0833	1.3	0.1151	0.4	1881	7	4
C.64.1.1	0.07	221	79	0.37	3.3123	1.2	0.1093	0.6	1789	11	5
C.66.1.1	0.02	293	135	0.48	3.0207	1.2	0.113	0.4	1848	7	0
C.67.1.1	-0.02	208	340	1.69	3.5263	1.2	0.1027	0.5	1673	10	4
C.68.1.1	0.1	183	41	0.23	3.4052	1.2	0.1042	0.6	1701	11	2
C.69.1.1	0.11	173	167	1	3.4005	1.3	0.1008	0.8	1640	15	-1
C.7.1.1	0.03	174	46	0.27	3.2614	1.2	0.1076	0.6	1759	11	2
C.70.1.1	0.06	263	300	1.18	3.5694	1.2	0.1019	0.5	1659	9	4
C.71.1.1	0.03	668	278	0.43	3.0433	1.1	0.1148	0.3	1877	5	2
C.72.1.1	0.47	41	92	2.3	2.4783	1.9	0.1408	1.4	2237	24	2
C.74.1.1	0.11	131	121	0.95	3.4412	1.3	0.1009	0.8	1641	15	0
C.75.1.1	0.05	212	104	0.51	3.0011	1.2	0.1143	0.5	1869	9	1
C.76.1.1	0.16	198	133	0.69	3.5414	1.2	0.1013	0.7	1648	13	3
C.79.1.1	0.05	274	62	0.23	3.3364	1.2	0.1089	0.5	1782	9	5
C.8.1.1	0.16	330	362	1.13	3.4654	1.2	0.1019	0.5	1660	10	2
C.80.1.1	0.05	184	178	1	3.4779	1.2	0.1024	0.6	1667	12	2
C.81.1.	0.02	64	258	0.41	2.7889	1.1	0.1235	0.3	2007	5	2

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C.82.1.1	0.07	215	155	0.74	3.5068	1.3	0.1019	0.6	1658	11	2
C.9.1.1	0.02	600	439	0.76	3.079	1.1	0.1146	0.3	1873	5	3
Sample 2007169007 (1937156), Langdon River Mudstone					**New SHRIMP U-Pb zircon ages from north Queensland, 2007–2010**					**Neumann and Kositcin, 2011**	
Grain ID	206Pbc(%)1	U (ppm)	Th (ppm)	232Th/238U	238U/206Pb	± 1σ (%)	207Pb/206Pb	± 1σ(%)	207Pb/206Pb Age (Ma)	± 1σ (Ma)	Disc (%)
D.1.1.1	0.1	334	518	1.6	3.4899	1.2	0.0994	0.5	1612	9	-1
D.10.1.1	0.03	447	74	0.17	3.2284	1.1	0.1089	0.3	1782	6	2
D.11.1.1	0.11	166	152	0.95	3.2669	1.2	0.1038	0.7	1693	13	-2
D.12.1.1	0.06	421	263	0.64	3.1603	1.1	0.1105	0.4	1808	7	2
D.14.1.1	0.08	236	281	1.23	3.3659	1.2	0.0994	0.6	1613	11	-4
D.16.1.1	0.11	128	67	0.54	2.5556	1.3	0.1275	0.6	2064	11	-3
D.17.1.1	0.02	864	11	0.01	3.0623	1.1	0.11	0.2	1799	4	-1
D.18.1.1	0.06	140	91	0.67	3.2892	1.3	0.1041	0.7	1699	13	-1
D.19.1.1	0.15	301	202	0.69	3.4846	1.2	0.1016	0.5	1653	10	2
D.2.1.1	0	385	151	0.41	3.2877	1.1	0.1056	0.4	1725	7	1
D.20.1.1	0.02	65	56	0.9	3.4023	1.4	0.1015	1.1	1652	21	-1
D.21.1.1	0.08	159	100	0.65	2.1338	1.2	0.162	0.4	2476	7	0
D.22.1.1	0.12	166	219	1.36	3.4447	1.3	0.0996	0.8	1617	14	-2
D.25.1.1	0.06	228	141	0.64	3.4084	1.2	0.1005	0.5	1633	10	-2
D.26.1.1	0.13	350	422	1.25	3.5918	1.2	0.1002	0.5	1627	10	3
D.27.1.1	0.07	598	280	0.48	3.1296	1.1	0.1081	0.3	1768	6	-1
D.4.1.1	0.02	176	88	0.52	2.7176	1.2	0.1263	0.4	2048	8	1
D.6.1.1	0.04	200	261	1.34	3.3615	1.2	0.1006	0.5	1635	10	-3
D.9.1.1	0.15	91	58	0.66	3.3042	1.3	0.1025	1.7	1669	32	-2
Sample 2007169009 (1937158), Malacura Sandstone					**New SHRIMP U-Pb zircon ages from north Queensland, 2007–2010**					**Neumann and Kositcin, 2011**	
Grain ID	206Pbc(%)1	U (ppm)	Th (ppm)	232Th/238U	238U/206Pb	± 1σ (%)	207Pb/206Pb	± 1σ(%)	207Pb/206Pb Age (Ma)	± 1σ (Ma)	Disc (%)
A.1.1.1	0.04	261	288	1.14	3.515	1.2	0.1013	0.5	1647	9	2
A.10.1.1	0.03	282	163	0.6	3.446	1.2	0.104	0.5	1697	9	3
A.11.1.1	0.12	288	204	0.73	3.5826	1.2	0.101	0.5	1643	9	3
A.12.1.1	0.05	188	157	0.86	3.4704	1.2	0.1009	0.6	1642	12	1
A.13.1.1	0.04	215	184	0.89	3.4782	1.2	0.1015	0.6	1652	11	1
A.14.1.1	0.06	103	92	0.93	3.6294	1.3	0.1017	0.8	1655	14	5
A.15.1.1	0.06	97	71	0.75	3.6436	1.3	0.1005	0.9	1633	16	4
A.16.1.1	0.37	223	85	0.4	2.9582	1.2	0.1127	1.9	1843	34	-2

A.17.1.1	-0.02	264	190	0.74	3.5788	1.2	0.1003	0.4	1630	8	3
A.18.1.1	0.1	149	80	0.56	3.2551	1.2	0.1044	0.6	1703	11	-1
A.19.1.1	0.03	506	304	0.62	3.5117	1.1	0.1044	0.4	1705	7	5
A.22.1.1	0.03	441	192	0.45	3.4939	1.1	0.0996	0.3	1617	6	0
A.23.1.1	-0.02	252	64	0.26	3.4013	1.2	0.107	0.5	1748	9	5
A.24.1.1	-0.01	345	390	1.17	3.7043	1.3	0.0998	0.4	1620	7	5
A.25.1.1	0.01	137	166	1.25	3.2525	1.2	0.1057	0.8	1726	15	0
A.26.1.1	0.13	127	86	0.7	3.2672	1.2	0.1015	0.8	1652	14	-4
A.27.1.1	0.06	318	248	0.81	3.6477	1.2	0.1007	0.5	1637	9	5
A.28.1.1	-0.01	234	262	1.15	3.5844	1.3	0.0999	0.5	1622	9	2
A.29.1.1	0	303	292	1	3.265	1.5	0.1059	0.4	1729	7	0
A.3.1.1	-0.14	71	69	1	3.4938	1.4	0.1033	1.3	1685	23	4
A.30.1.1	0.11	262	10	0.04	3.2773	1.2	0.1046	0.5	1708	9	-1
A.31.1.1	0.04	174	156	0.93	3.4802	1.2	0.1002	0.6	1628	12	0
A.32.1.1	0.06	156	90	0.6	3.4612	1.2	0.1022	0.6	1664	11	2
A.33.1.1	0.02	255	194	0.79	3.3748	1.2	0.1028	0.5	1675	9	0
A.34.1.1	0.25	87	78	0.93	3.367	1.3	0.1018	1	1658	19	-1
A.35.1.1	0.07	391	194	0.51	3.1454	1.1	0.113	0.4	1849	7	4
A.37.1.1	-0.02	292	171	0.61	3.198	1.1	0.1099	0.4	1798	7	2
A.38.1.1	0.02	114	81	0.73	3.4016	1.2	0.1039	0.7	1696	12	2
A.39.1.1	0.02	201	78	0.4	3.5743	1.2	0.0999	0.6	1623	12	2
A.40.1.1	0.08	325	360	1.15	3.2616	1.1	0.1051	0.4	1716	8	0
A.41.1.1	0.18	158	64	0.42	3.4623	1.2	0.1016	0.7	1654	14	1
A.44.1.1	0.06	141	124	0.91	3.5558	1.4	0.1001	0.7	1627	14	2
A.45.1.1	0.03	230	189	0.85	3.5754	1.2	0.1001	0.6	1625	11	2
A.46.1.1	0.06	586	204	0.36	2.1422	1.1	0.1758	0.2	2613	3	5
A.47.1.1	0.09	242	170	0.73	3.2001	1.2	0.1068	0.5	1745	9	0
A.48.1.1	0.03	245	256	1.08	3.6632	1.2	0.099	0.5	1606	9	3
A.49.1.1	0.07	420	273	0.67	3.5004	1.1	0.1018	0.4	1657	7	2
A.50.1.1	0.16	111	91	0.85	3.5233	1.3	0.1001	0.9	1626	17	1
A.52.1.1	0.08	234	86	0.38	3.0926	1.2	0.1124	0.5	1839	9	2
A.53.1.1	0.08	138	101	0.76	3.4409	1.2	0.1016	0.7	1653	13	1
A.54.1.1	0.16	228	262	1.18	3.5902	1.3	0.0984	0.7	1594	12	1
A.56.1.1	0.08	283	356	1.3	3.4229	1.2	0.1021	0.5	1663	9	1
A.57.1.1	0.11	138	197	1.47	3.6831	1.2	0.1	0.8	1624	16	5
A.58.1.1	0.17	108	90	0.86	3.4676	1.3	0.0997	0.9	1618	17	-1
A.59.1.1	0.05	248	193	0.8	3.3815	1.2	0.1031	0.5	1680	9	1

A.6.1.1	0.13	201	163	0.84	3.4508	1.2	0.0998	0.7	1621	12	-1
A.61.1.1	0.04	286	256	0.92	3.5525	1.2	0.1002	0.5	1628	9	2
A.62.1.1	0.07	221	184	0.86	3.3531	1.2	0.1034	0.5	1686	10	0
A.63.1.1	0.07	174	71	0.42	3.5085	1.2	0.1012	0.7	1646	13	2
A.64.1.1	0.05	307	204	0.69	3.3638	1.2	0.1032	0.4	1682	8	0
A.65.1.1	0.08	612	424	0.72	3.43	1.2	0.1053	0.3	1719	6	4
A.66.1.1	0.01	219	42	0.2	3.1857	1.2	0.1095	0.4	1792	8	2
A.67.1.1	0.11	150	77	0.53	3.506	1.4	0.0985	0.7	1595	14	-1
A.68.1.1	0.02	486	452	0.96	3.4391	1.1	0.1006	0.4	1636	7	-1
A.69.1.1	-0.01	195	243	1.29	3.4213	1.2	0.1034	0.5	1686	9	2
A.7.1.1	0.08	259	154	0.62	3.4032	1.2	0.1036	0.5	1690	9	2
A.70.1.1	0.02	173	202	1.21	3.4806	1.2	0.1011	0.6	1644	11	1
A.71.1.1	0.06	178	63	0.36	3.3949	1.2	0.1047	0.6	1709	11	3
A.72.1.1	0	329	331	1.04	3.5247	1.1	0.101	0.4	1642	7	2
A.74.1.1	0.16	192	154	0.83	3.3637	1.3	0.102	0.6	1661	12	-1
A.75.1.1	0.03	305	276	0.94	3.3148	1.1	0.1049	0.6	1713	12	1
A.77.1.1	0.07	177	229	1.34	3.5759	1.2	0.1001	0.6	1626	12	2
A.78.1.1	0.01	562	778	1.43	3.4678	1.1	0.1009	0.3	1641	6	0
A.79.1.1	0.16	136	119	0.91	3.6223	1.2	0.0993	0.9	1612	17	3
A.8.1.1	0.18	97	144	1.54	3.495	1.3	0.0984	1	1594	19	-2
A.80.1.1	-0.08	144	128	0.91	3.5229	1.2	0.1017	0.7	1656	12	3

Inorunie Group detrital zircon

GA Sample ID: 2008 83 7023 (unpublished)					***Inorunie Group***		***Sample prepared and processed by Dr. Richard Wormald***				
Grain ID	$206Pb_c$ (%)	U (ppm)	Th (ppm)	Th/U	$206Pb/^{238}U$	± (%)	$207Pb/^{206}Pb$	± (%)	$207Pb/^{206}Pb$ Age (Ma)	±Ma (1sig)	Disc (%)
7023-1		209.91	80.84	0.385	0.317	0.003	0.106	0.001	1732.9	22.32	-2.4
7023-2		139.63	82.08	0.588	0.284	0.002	0.099	0.001	1602.7	23.38	-0.6
7023-6		239.28	99.83	0.417	0.473	0.004	0.161	0.002	2469.6	20.8	-1.1
7023-7		207.53	125.12	0.603	0.318	0.003	0.107	0.001	1745.4	24.34	-1.8
7023-9		273.38	144.91	0.53	0.301	0.003	0.101	0.001	1647	24.82	-2.9
7023-12		92.87	42.28	0.455	0.299	0.003	0.105	0.002	1717.3	28.65	1.8
7023-13		160.67	204.55	1.273	0.329	0.003	0.107	0.001	1755.2	23.57	-4.2
7023-15		268.09	107.47	0.401	0.314	0.003	0.107	0.001	1742.8	23.11	-1.1
7023-16		106.48	61.4	0.577	0.344	0.003	0.109	0.002	1774.6	28.12	-6.9
7023-17		186.1	154.24	0.829	0.317	0.003	0.106	0.002	1724	25.92	-2.9

7023-19		168.06	113.65	0.676	0.318	0.003	0.108	0.001	1766.6	23.65	-0.9
7023-22		96.5	103.52	1.073	0.307	0.003	0.107	0.001	1757	25.12	1.8
7023-23		252.28	144.04	0.571	0.33	0.003	0.106	0.001	1734	23.26	-5.6
7023-24		332.43	161.02	0.484	0.304	0.003	0.111	0.002	1814.5	27	6.1
ss7023-25		213.57	102.52	0.48	0.511	0.004	0.173	0.002	2585.6	22.12	-2.9
7023-28		568.42	198.55	0.349	0.31	0.003	0.108	0.002	1767.2	25.95	1.5
7023-31		78.82	84.9	1.077	0.303	0.003	0.1	0.002	1618.6	28.48	-5.1
7023-33		161.36	74.37	0.461	0.315	0.003	0.108	0.002	1761.8	27.28	-0.2
7023-34		157.87	249.27	1.579	0.306	0.003	0.106	0.001	1735.4	25.55	0.8
7023-41		243.35	88.4	0.363	0.324	0.003	0.106	0.001	1726.4	24.16	-4.6
7023-43		425.61	222.02	0.522	0.452	0.004	0.164	0.002	2493.6	22.28	3.7
7023-47		99.52	58.74	0.59	0.29	0.003	0.102	0.002	1652	29.07	0.8
7023-49		158.32	119.45	0.754	0.315	0.003	0.105	0.002	1712.9	26.17	-3
7023-50		183.53	216.72	1.181	0.311	0.003	0.104	0.002	1700.8	26.29	-2.5
7023-51		145.92	71.79	0.492	0.462	0.004	0.164	0.002	2495.3	23.64	2
7023-52		123.08	75.09	0.61	0.491	0.004	0.158	0.002	2434	25.61	-5.4
7023-54		159.2	211.51	1.329	0.332	0.003	0.106	0.002	1737	26.7	-5.9
Sample collected by Adam Nordsvan						**Sample preperation done at Curtin University and University of Newcastle**					
SAMPLE - IG01a	**Processed at University of Newcastle**				**7/10/2016**	**Inorunie Group**			**Coord (UTM, 54) 677603 / 7978521**		
Grain ID	206Pbc (%)	U (ppm)	Th (ppm)	Th/U	206Pb/238U	± (%)	207Pb/206Pb	± (%)	207Pb/206Pb Age (Ma)	±Ma (1sig)	Disc (%)
IG01-02.d		430	94	6.400	0.445	0.004	0.158	0.001	2439	17	2.4
IG01-07.d		485.7	213.9	2.258	0.319	0.003	0.104	0.001	1703	15	-4.9
IG01-08.d		275.9	145	1.891	0.284	0.002	0.098	0.001	1582	12	-1.9
IG01-09.d		144.9	111.5	1.296	0.312	0.004	0.107	0.001	1742	20	-0.5
IG01-10.d		117	85.5	1.374	0.295	0.003	0.104	0.001	1696	20	2.2
IG01-11.d		274.7	174.8	1.563	0.309	0.003	0.108	0.001	1696	14	-4.4
IG01-12.d		258.6	126.8	2.018	0.323	0.003	0.105	0.001	1743	14	-4.4
IG01-15.d		464	357	1.296	0.320	0.004	0.112	0.001	1861	14	1.7
IG01-18.d		243.7	143.5	1.690	0.317	0.002	0.104	0.001	1739	18	4.9
IG01-19.d		119.9	78.2	1.544	0.321	0.003	0.106	0.001	1533	20	-5.1
IG01-22.d		92.8	143.4	0.645	0.327	0.002	0.107	0.001	1749	37	1.5
IG01-24.d		185.4	107.5	1.727	0.328	0.003	0.114	0.001	1775	18	-3.4
IG01-25.d		86.3	112.4	0.739	0.293	0.002	0.107	0.001	1855	22	4.2
IG01-29.d		189.7	257	0.764	0.285	0.002	0.096	0.001	1669	15	-5.4
IG01-34.d		303.	186.8	1.60	0.307	0.00	0.108	0.002	1690	12	-2.5

		8		0		6					
IG01-35.d		194.5	137.3	1.449	0.330	0.004	0.109	0.001	1616	19	-0.9
IG01-36.d		304	174.2	1.715	0.318	0.003	0.114	0.001	1740	15	-3.4
IG01-37.d		168.9	76.5	2.210	0.315	0.002	0.103	0.001	2406	11	-2.9
IG01-38.d		303.4	333.5	0.902	0.309	0.003	0.104	0.001	1788	16	2.1
IG01-39.d		623	280.9	2.207	0.288	0.003	0.100	0.001	1544	14	-4.5
IG01-42.d		569	246.2	2.360	0.323	0.003	0.107	0.001	1586	11	-4.1
IG01-44.d		253.1	195.8	1.286	0.469	0.003	0.156	0.001	1763	18	0.1
IG01-46.d		110.8	83.7	1.377	0.312	0.003	0.110	0.001	1608	18	-3.6
IG01-47.d		239.9	224.7	1.057	0.285	0.002	0.096	0.001	1717	13	0.4
IG01-48.d		301.7	311	0.978	0.293	0.002	0.098	0.001	1720	13	-1.9
IG01-52.d		324	307	1.013	0.314	0.003	0.108	0.001	1788	14	-3.7
IG01-55.d		242	238	0.939	0.296	0.003	0.099	0.001	1741	13	-2.2
IG01-58.d		650	429.5	1.485	0.304	0.002	0.105	0.001	1774	14	5.1
IG01-63.d		600	670	0.883	0.313	0.002	0.105	0.001	1723	11	-2.8
IG01-64.d		324	214	1.540	0.334	0.003	0.110	0.001	1756	15	0.9
IG01-66.d		897	227.4	3.890	0.318	0.003	0.107	0.001	1703.8	10	0.4
IG01-67.d		456.5	145	3.360	0.299	0.003	0.109	0.001	1723	12	-1.8
IG01-72.d		113	202.2	0.571	0.317	0.003	0.106	0.001	1586	27	0.3
IG01-73.d		290.2	116.4	2.481	0.310	0.003	0.108	0.001	1723	12	-5.4
IG01-74.d		461.7	268.5	1.713	0.301	0.002	0.105	0.001	2580.6	8	-1.4
IG01-80.d		470.4	205.6	2.286	0.313	0.002	0.106	0.001	1748	12	1.0
IG01-81.d		209.3	114.5	1.980	0.278	0.003	0.099	0.001	1752	20	3.7
IG01-83.d		509.4	204	3.300	0.327	0.003	0.106	0.001	2441	11	2.5
IG01-88.d		172.5	121.9	1.426	0.501	0.003	0.172	0.001	1622	18	-0.7
IG01-89.d		522.7	49.3	11.440	0.308	0.003	0.107	0.001	2402	10	-1.7
IG01-95.d		893	338	2.760	0.300	0.003	0.107	0.001	1734	21	2.7
IG01-98.d		158.3	119.6	1.316	0.447	0.005	0.159	0.001	1604	20	-4.9
IG01-101.d		444	418	1.062	0.288	0.003	0.100	0.001	1761	14	1.3
IG01-102.d		149.1	135.3	1.120	0.461	0.003	0.155	0.001	1706	19	-5.4
IG01-103.d		158.3	160.7	1.041	0.300	0.005	0.106	0.001	1829	21	2.3
IG01-110.d		368.5	207.3	1.737	0.299	0.002	0.099	0.001	1724	12	-4.1
Sample collected by Adam Nordsvan						**Sample preperation done at Curtin University and University of Newcastle**					
SAMPLE - IG01b	**Processed at Curtin University**				**7/04/2017**	**Inorunie Group**			**Coord (UTM, 54) 677603 / 7978521**		
Grain ID	206Pbc (%)	U (ppm	Th (ppm	Th/U	206Pb/238U	± (%)	207Pb/206Pb	± (%)	207Pb/206Pb Age (Ma)	±Ma (1sig)	Disc (%)

		)	)								
IG01 - 1		296	203.00	1.428	0.310	0.002	0.105	0.001	1705	22	-1.9
IG01 - 2		115.2	107.80	1.047	0.278	0.003	0.099	0.003	1597	54	1.2
IG01 - 5		12.05	0.29	72	0.334	0.016	0.114	0.010	1830	150	-1.5
IG01 - 6		92.4	125.00	0.737	0.311	0.004	0.105	0.002	1706	43	-2.5
IG01 - 8		79.4	-0.01	-8520	0.306	0.010	0.101	0.004	1636	77	-4.8
IG01 - 11		231	185.10	1.22	0.311	0.003	0.103	0.002	1680	29	-3.8
IG01 - 12		194	183.00	1.045	0.315	0.003	0.105	0.001	1719	23	-2.5
IG01 - 14		16.12	0.03	-830	0.315	0.010	0.111	0.008	1790	130	1.5
IG01 - 16		31.8	0.09	-830	0.335	0.014	0.117	0.004	1892	66	1.7
IG01 - 19		62.6	2.42	69	0.300	0.008	0.104	0.004	1693	65	0.3
IG01 - 28		26.62	0.00	-1520	0.351	0.007	0.113	0.004	1844	70	-4.9
IG01 - 30		664	1790.00	0.368	0.297	0.005	0.108	0.002	1768	36	5.4
IG01 - 32		616	193.00	3.24	0.307	0.002	0.106	0.001	1726	14	0.1
IG01 - 34		187	182.00	1.032	0.284	0.003	0.098	0.002	1591	33	-1.2
IG01 - 35		490	299.00	1.67	0.307	0.004	0.105	0.001	1713	24	-0.6
IG01 - 36		175.3	164.40	1.066	0.282	0.003	0.098	0.002	1588	35	-0.7
IG01 - 38		160	122.10	1.33	0.304	0.004	0.105	0.002	1709	30	0.0
IG01 - 39		12.37	0.00	-500	0.352	0.015	0.115	0.007	1860	120	-4.2
IG01 - 40		386	188.60	2.035	0.282	0.002	0.097	0.002	1561	29	-2.6
IG01 - 42		508	77.00	9	0.466	0.006	0.159	0.002	2448	16	-0.8
IG01 - 44		7.78	0.65	30	0.358	0.016	0.132	0.013	2080	180	5.5
IG01 - 45		263	246.00	1.085	0.304	0.003	0.104	0.002	1687	33	-1.4
IG01 - 52		268	164.80	1.655	0.316	0.003	0.107	0.002	1738	33	-1.8
IG01 - 53		422	297.00	1.52	0.425	0.006	0.156	0.001	2410	10	5.5
IG01 - 54		179	147.70	1.233	0.280	0.002	0.099	0.002	1597	36	0.4
IG01 - 56		141	92.70	1.556	0.283	0.003	0.098	0.002	1578	35	-1.6
IG01 - 57		22.78	0.00	-1520	0.325	0.010	0.110	0.008	1770	130	-2.3
IG01 - 59		261.4	192.30	1.391	0.315	0.003	0.105	0.001	1720	22	-2.5
IG01 - 65		3.53	0.10	32	0.327	0.020	0.112	0.014	1760	220	-3.3
IG01 - 69		33.21	0.05	-500	0.315	0.007	0.108	0.011	1750	170	-1.0
IG01 - 71		214	148.20	1.458	0.309	0.003	0.104	0.002	1685	27	-2.9
IG01 - 76		215	200.00	1.082	0.295	0.002	0.108	0.002	1755	28	5.2
IG01 - 80		184	166.00	1.131	0.293	0.006	0.105	0.005	1711	84	3.2
IG01 - 81		126.5	155.00	0.834	0.279	0.003	0.098	0.002	1575	39	-0.5

IG01 - 82		316	167.60	1.92	0.335	0.002	0.113	0.001	1850	16	-0.6
IG01 - 83		189.7	189.30	1.022	0.308	0.003	0.106	0.001	1725	25	-0.3
IG01 - 84		1.07	0.16	17	0.424	0.064	0.157	0.042	2320	390	2.2
IG01 - 88		456	254.00	1.95	0.314	0.006	0.106	0.001	1729	22	-1.8
IG01 - 90		195.6	200.30	0.994	0.289	0.003	0.099	0.002	1604	30	-2.0
IG01 - 91		306	196.40	1.596	0.309	0.005	0.105	0.003	1705	51	-1.7
IG01 - 93		295	404.00	0.746	0.324	0.006	0.116	0.004	1892	61	4.7
IG01 - 95		292	167.00	1.821	0.315	0.004	0.106	0.001	1734	24	-1.7
IG01 - 96		175.7	425.00	0.429	0.279	0.003	0.097	0.002	1571	35	-0.8
IG01 - 99		24.68	0.53	-320	0.317	0.008	0.108	0.007	1750	120	-1.3
IG01 - 100		347	287.00	1.247	0.283	0.005	0.098	0.001	1583	21	-1.4
IG01a - 4		309	184.00	1.685	0.315	0.003	0.104	0.001	1700	20	-3.7
IG01a - 5		406	534.00	0.756	0.316	0.002	0.108	0.002	1769	34	0.1
IG01a - 9		295	240.00	1.231	0.299	0.003	0.107	0.001	1750	18	3.7
IG01a - 10		213	71.50	2.99	0.480	0.006	0.162	0.002	2479	18	-1.8
IG01a - 13		538	261.70	2.06	0.296	0.003	0.106	0.001	1721	22	3.0
IG01a - 15		107.5	74.70	1.441	0.277	0.003	0.099	0.002	1591	43	0.9
IG01a - 18		80.7	115.20	0.69	0.330	0.006	0.114	0.006	1854	91	0.9
IG01a - 21		172.1	131.00	1.342	0.309	0.004	0.105	0.001	1714	24	-1.1
IG01a - 22		166	309.00	0.5413	0.431	0.005	0.156	0.002	2413	20	4.4

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