GSA Data Repository Tables

- to accompany Mahoney et. al. : ***Archean zircon in Cretaceous strata of the western Canadian Cordillera: the "Baja B.C." hypothesis fails a "crucial test"?***

Data submitted by M.Fanning, A.N.U. Canberra

Table 1. Summary of SHRIMP U-Pb zircon results for sample PSM97-001 (Protection Formation, Nanaimo Group)

Table 2. Summary of SHRIMP U-Pb zircon results for sample PSM97-004 (Decourcy Formation, Nanaimo Group

Table 3. Summary of SHRIMP U-Pb zircon results for sample 96MK146 (Ventura Member, Midnight Peak Formation)

Data submitted by R. Friedman, U.B.C. Vancouver

Table 4. U-Pb analytical data for detrital zircons from the Nanaimo Group

Data submitted by V. McNicoll, G.S.C. Ottawa

Table 5. U-Pb analytical data for detrital zircons from the Longarm and Haida Formations, Queen Charlotte Islands

Table 1. Summary of SHRIMP U-Pb zircon results for sample PSM97-001.
Protection Formation of the Nanaimo Group

Grain. spot	U (ppm)	Th (ppm)	Th/U	Pb* (ppm)	$^{204}Pb/^{206}Pb$	f_{206} %	$^{206}Pb/^{238}U$	±	Radiogenic Ratios $^{207}Pb/^{235}U$	±	$^{207}Pb/^{206}Pb$	±	Ages (in Ma) $^{206}Pb/^{238}U$	±	$^{207}Pb/^{235}U$	$^{207}Pb/^{206}Pb$	±	Conc. %
1.1	101	53	0.52	2	0.002460	2.90	0.0186	0.0005					119	3				
2.1	569	344	0.60	10	0.000010	0.06	0.0136	0.0002					87.1	1.3				
3.1	118	5	0.04	2	0.000010	2.70	0.0171	0.0004					109	2				
4.1	185	49	0.27	64	0.000030	0.05	0.2660	0.0053	3.835	0.092	0.1046	0.0011	1521	27	1600	1707	20	89
5.1	266	80	0.30	93	0.000071	0.11	0.2620	0.0039	3.826	0.089	0.1059	0.0017	1500	20	1598	1731	30	87
6.1	431	131	0.30	132	0.000065	0.11	0.2353	0.0039	2.948	0.065	0.0909	0.0011	1362	20	1394	1444	24	94
7.1	128	45	0.36	4	0.001076	2.69	0.0235	0.0008					150	5				
8.1	695	255	0.37	13	0.000940	0.85	0.0149	0.0004					95.0	2.2				
9.1	146	14	0.09	3	0.000010	1.74	0.0174	0.0006					111	3				
10.1	612	97	0.16	117	-	<0.01	0.1530	0.0035	2.075	0.067	0.0984	0.0020	918	20	1141	1593	38	58
11.1	1427	543	0.38	590	0.000024	0.04	0.3083	0.0036	4.477	0.065	0.1053	0.0008	1733	18	1727	1720	14	101
12.1	279	118	0.42	5	0.001902	1.75	0.0138	0.0003					88.5	1.7				
13.1	719	308	0.43	273	-	<0.01	0.2802	0.0037	4.111	0.067	0.1064	0.0009	1593	18	1657	1739	16	92
14.1	837	503	0.60	352	0.000001	<0.01	0.2968	0.0035	4.262	0.054	0.1042	0.0004	1675	17	1686	1700	6	99
15.1	792	486	0.61	17	-	0.40	0.0157	0.0003					101	2				
16.1	694	22	0.03	250	0.000008	0.01	0.2919	0.0037	4.441	0.066	0.1103	0.0007	1651	18	1720	1805	12	92
17.1	1106	341	0.31	317	0.000007	0.01	0.2200	0.0028	2.724	0.039	0.0898	0.0005	1282	15	1335	1421	11	90
18.1	176	62	0.35	4	0.000827	1.04	0.0176	0.0006					112	3				
19.1	184	40	0.22	4	0.001088	1.43	0.0180	0.0004					115	3				
20.1	864	91	0.11	13	0.000036	0.59	0.0130	0.0002					83.2	1.3				
21.1	413	26	0.06	29	0.000538	4.28	0.0624	0.0012					390	7				
22.1	574	200	0.35	330	0.000013	0.02	0.4147	0.0070	8.945	0.162	0.1564	0.0008	2237	32	2332	2418	8	93
23.1	163	79	0.48	5	0.000227	2.54	0.0233	0.0008					149	5				
24.1	852	362	0.42	13	0.000318	0.47	0.0122	0.0003					78.4	1.7				
25.1	615	248	0.40	17	0.000125	0.92	0.0207	0.0004					132	2				
26.1	597	83	0.14	188	0.000059	0.09	0.2504	0.0031	3.559	0.053	0.1031	0.0007	1441	16	1540	1680	12	86
27.1	249	46	0.18	84	0.000067	0.11	0.2646	0.0041	3.840	0.075	0.1053	0.0011	1513	21	1601	1719	19	88
28.1	505	307	0.61	9	0.000149	1.02	0.0133	0.0002					84.9	1.4				
29.1	361	96	0.27	131	0.000053	0.08	0.2782	0.0038	4.107	0.065	0.1071	0.0007	1582	19	1656	1750	13	90
30.1	-	-	-	-	0.004149	7.42	0.0198	0.0006					127	4				
30.2	244	153	0.63	6	-	0.50	0.0135	0.0003					86.6	2.0				
31.1	449	161	0.36	29	0.000386	0.55	0.0501	0.0011					315	7				
32.1	244	136	0.56	4	0.000823	1.69	0.0124	0.0005					79.7	2.9				
33.1	364	92	0.25	98	0.000040	0.06	0.2064	0.0029	2.757	0.056	0.0969	0.0013	1210	15	1344	1564	25	77
34.1	57	53	0.92	23	0.000198	0.31	0.2556	0.0079	3.676	0.181	0.1043	0.0036	1467	41	1566	1702	65	86
35.1	378	248	0.65	125	0.000053	0.09	0.2316	0.0037	2.925	0.057	0.0916	0.0008	1343	19	1388	1459	17	92
36.1	632	205	0.32	112	0.000045	0.08	0.1370	0.0017	1.452	0.025	0.0769	0.0008	828	10	911	1117	22	74
37.1	202	135	0.67	3	0.002693	3.61	0.0120	0.0003					77.2	2.0				
38.1	-	-	-	-	0.005020	9.24	0.0254	0.0014					162	9				
38b.1	65	39	0.60	32	0.000174	0.27	0.2704	0.0052	4.267	0.123	0.1144	0.0022	1543	26	1687	1871	35	83
39.1	306	87	0.28	101	0.000134	0.21	0.2501	0.0037	3.672	0.078	0.1065	0.0015	1439	19	1565	1741	25	83
40.1	434	157	0.36	151	0.000084	0.13	0.2593	0.0040	3.684	0.081	0.1031	0.0014	1486	21	1568	1680	25	89
41.1	595	147	0.25	12	0.001061	3.34	0.0174	0.0003					111	2				

42.1	372	110	0.29	141	0.000010	0.02	0.2868	0.0049	4.377	0.084	0.1107	0.0007	1625	25	1708	1811	12	90
43.1	205	105	0.51	4	0.000594	1.88	0.0154	0.0004					98.5	2.3				
45.1	237	72	0.30	91	0.000268	0.42	0.2238	0.0033	3.279	0.061	0.1063	0.0010	1302	17	1476	1737	17	75
46.1	710	190	0.27	14	0.000694	0.48	0.0126	0.0003					80.6	2.0				
47.1	874	328	0.38	261	0.000010	0.02	0.1748	0.0019	2.065	0.025	0.0857	0.0004	1038	10	1137	1331	9	78
48.1	573	110	0.19	154	0.000017	0.03	0.1685	0.0029	2.018	0.039	0.0869	0.0006	1004	16	1122	1358	14	74
49.1	32	43	1.34	16	0.000178	0.29	0.2378	0.0067	3.007	0.115	0.0917	0.0021	1376	35	1409	1461	43	94
50.1	284	78	0.27	8	-	0.28	0.0183	0.0003					117	2	0	0	0	0

Notes :

1. Uncertainties given at the one s level.
2. f_{206} % denotes the percentage of ^{206}Pb that is common Pb.
3. For areas >800 Ma, correction for common Pb made using the measured $^{204}Pb/^{206}Pb$ ratio.
4. For areas <800 Ma, correction for common Pb made using the measured $^{238}U/^{206}Pb$ and 207Pb/206Pb following Tera and Wasserburg (1972) as outlined in Compston et al. (1992).
5. For % Conc., 100% denotes a concordant analysis.

Table 2. Summary of SHRIMP U-Pb zircon results for sample PSM97-004.

DeCourcy Formation of the Nanaimo Group

Grain. spot	U (ppm)	Th (ppm)	Th/U	Pb* (ppm)	$^{204}Pb/^{206}Pb$	f_{206} %	Radiogenic Ratios $^{206}Pb/^{238}U$	±	$^{207}Pb/^{235}U$	±	$^{207}Pb/^{206}Pb$	±	Ages (in Ma) $^{206}Pb/^{238}U$	±	$^{207}Pb/^{235}U$	$^{207}Pb/^{206}Pb$	±	Conc. %
1.1	159	53	0.33	103	0.000010	0.01	0.4847	0.0110	11.882	0.302	0.1778	0.0016	2548	48	2595	2632	15	97
2.1	572	127.5	0.223	282	0.000003	<0.01	0.3819	0.0050	8.092	0.124	0.1537	0.0010	2085	23	2241	2387	11	87
3.1	294	105	0.36	75	0.000075	0.12	0.1966	0.0035	2.513	0.063	0.0927	0.0014	1157	19	1276	1482	30	78
4.1	186	108	0.58	3	0.003419	10.9	0.0132	0.0004					84.2	2.4				
5.1	110	58	0.53	2	-	1.05	0.0133	0.0004					85.1	2.5				
6.1	411	246	0.60	7	0.000086	0.39	0.0135	0.0003					86.7	2.1				
7.1	212	46	0.22	4	-	2.05	0.0148	0.0003					94.8	2.1				
8.1	897	290	0.32	15	0.000158	0.25	0.0137	0.0003					87.8	1.7				
9.1	620	7	0.01	9	0.001106	1.32	0.0128	0.0003					82.1	1.7				
10.1	93	42	0.45	1	0.004293	8.52	0.0123	0.0004					78.7	2.7				
11.1	100	41	0.41	44	-	<0.01	0.3347	0.0075	5.033	0.311	0.1091	0.0060	1861	36	1825	1784	104	104
12.1	1557	146	0.09	451	0.000007	0.01	0.2457	0.0026	2.985	0.034	0.0881	0.0003	1417	13	1404	1385	6	102
13.1	212	95	0.45	4	0.000101	3.00	0.0138	0.0004					88.3	2.5				
14.1	613	629	1.026	268	0.000009	0.01	0.2950	0.0049	4.177	0.108	0.1027	0.0018	1667	25	1670	1673	33	100
15.1	559	186	0.33	153	0.000014	0.02	0.2150	0.0025	3.066	0.046	0.1034	0.0008	1256	13	1424	1686	15	75
16.1	146	111	0.76	61	0.000309	0.49	0.2999	0.0052	4.073	0.104	0.0985	0.0017	1691	26	1649	1596	32	106
17.1	291	93	0.32	5	-	0.84	0.0137	0.0002					87.9	1.4				
18.1	194	124	0.64	4	0.001462	0.67	0.0137	0.0003					87.8	1.8				
19.1	897	160	0.18	544	0.000007	0.01	0.4683	0.0051	11.624	0.132	0.1800	0.0004	2476	22	2575	2653	4	93
20.1	773	72	0.09	287	0.000004	0.01	0.3115	0.0036	4.478	0.056	0.1043	0.0004	1748	18	1727	1702	7	103
21.1	1285	716	0.56	27	0.000350	0.58	0.0163	0.0002					104	1				
22.1	858	120	0.14	96	0.000095	3.08	0.1017	0.0016					624	10				
23.1	1493	574	0.38	25	0.000149	0.23	0.0135	0.0002					86.5	1.2				
24.1	321	266	0.83	130	0.000010	0.02	0.2850	0.0038	3.887	0.059	0.0989	0.0005	1617	19	1611	1604	10	101
25.1	822	107	0.13	307	0.000011	0.02	0.3094	0.0035	4.458	0.058	0.1045	0.0005	1738	17	1723	1705	9	102
26.1	589	77	0.13	162	0.000035	0.06	0.2290	0.0028	2.985	0.042	0.0945	0.0006	1329	15	1404	1519	11	88
27.1	526	179	0.34	213	0.000018	0.03	0.3155	0.0036	4.913	0.062	0.1129	0.0005	1768	18	1804	1847	7	96
28.1	712	86	0.121	29	0.000231	4.65	0.0376	0.0005					238	3				
30.1	286	114	0.40	9	0.000204	0.76	0.0252	0.0006					161	4				
31.1	84	32	0.38	2	0.000332	0.49	0.0217	0.0005					138	3				
32.1	340	83	0.24	95	-	<0.01	0.2287	0.0028	2.791	0.043	0.0885	0.0007	1328	15	1353	1393	15	95
33.1	145	91	0.63	48	0.000161	0.27	0.2478	0.0052	2.947	0.079	0.0863	0.0012	1427	27	1394	1344	28	106
34.1	82	27	0.33	2	0.000307	1.82	0.0184	0.0005					117	3				
35.1	451	264	0.59	8	-	0.26	0.0142	0.0002					90.7	1.4				
36.1	394	309	0.79	158	-	<0.01	0.2820	0.0033	4.083	0.054	0.1050	0.0005	1602	16	1651	1714	9	93
37.1	467	266	0.57	11	-	0.12	0.0181	0.0004					116	2				
38.1	57	19	0.33	1	0.002473	1.55	0.0142	0.0006					90.6	4.1				
39.1	272	83	0.31	6	0.000359	1.33	0.0174	0.0003					111	2				
40.1	829	473	0.57	12	0.000010	0.58	0.0116	0.0002					74.1	1.0				
41.1	473	70	0.15	123	0.000007	0.01	0.2164	0.0028	2.685	0.040	0.0900	0.0005	1263	15	1324	1426	11	89
42.1	377	58	0.15	132	-	<0.01	0.2896	0.0039	4.056	0.066	0.1016	0.0008	1639	20	1645	1653	14	99
43.1	100	46	0.46	38	0.000226	0.36	0.2897	0.0061	4.150	0.135	0.1039	0.0023	1640	31	1664	1695	42	97
44.1	627	167	0.27	309	0.000009	0.01	0.3837	0.0052	7.569	0.116	0.1431	0.0008	2093	24	2181	2265	10	92
45.1	334	64	0.19	109	0.000013	0.02	0.2675	0.0041	3.917	0.066	0.1062	0.0006	1528	21	1617	1735	9	88

46.1	150	42	0.28	2	0.000189	0.72	0.0134	0.0004					86.1	2.5				
47.1	584	284	0.49	160	0.000034	0.06	0.2108	0.0033	2.508	0.044	0.0863	0.0005	1233	18	1274	1345	12	92
48.1	82	16	0.20	2	0.000010	1.35	0.0179	0.0006					115	4				
49.1	409	144	0.35	150	0.000024	0.04	0.2868	0.0039	4.110	0.071	0.1040	0.0010	1625	19	1656	1696	17	96
50.1	474	71	0.15	126	-	<0.01	0.2207	0.0030	3.065	0.053	0.1007	0.0009	1286	16	1424	1637	17	79

Notes :

1. Uncertainties given at the one s level.
2. f_{206} % denotes the percentage of ^{206}Pb that is common Pb.
3. For areas >800 Ma, correction for common Pb made using the measured $^{204}Pb/^{206}Pb$ ratio.
4. For areas <800 Ma, correction for common Pb made using the measured $^{238}U/^{206}Pb$ and 207Pb/206Pb following Tera and Wasserburg (1972) as outlined in Compston *et al*. (1992).
5. For % Conc., 100% denotes a concordant analysis.

Table 3. Summary of SHRIMP U-Pb zircon results for sample 96MK146.
Ventura Member of the Midnight Peak Formation

Grain. spot	U (ppm)	Th pm)	Th/U	Pb* (ppm)	$^{204}Pb/^{206}Pb$	f_{206} %	Radiogenic Ratios $^{206}Pb/^{238}U$	±	$^{207}Pb/^{235}U$	±	$^{207}Pb/^{206}Pb$	±	Ages (in Ma) $^{206}Pb/^{238}U$	±	$^{207}Pb/^{235}U$	$^{207}Pb/^{206}Pb$	±	Conc. %
1.1	217	63	0.29	4	0.000001	0.06	0.0199	0.0009					126.8	5.9				
2.1	975	389	0.4	28	0.000001	<0.01	0.0274	0.0019					174.1	11.6				
3.1	235	97	0.41	6	0.000865	1.38	0.0240	0.0011					153.2	6.8				
4.1	174	50	0.29	3	0.000001	0.77	0.0186	0.0009					118.8	5.9				
5.1	718	257	0.36	14	0.000217	1.36	0.0183	0.0015					116.6	9.2				
6.1	119	48	0.40	3	0.000570	0.85	0.0246	0.0010					156.9	6.4				
7.1	227	133	0.58	7	0.000001	0.54	0.0264	0.0010					167.9	6.2				
8.1	251	100	0.40	7	0.000091	<0.01	0.0251	0.0016					159.8	9.9				
9.1	310	203	0.65	9	0.000743	0.51	0.0259	0.0012					164.7	7.5				
10.1	358	56	0.16	9	0.000001	<0.01	0.0252	0.0014					160.2	9.0				
11.1	720	421	0.6	20	0.000439	0.56	0.0254	0.0015					161.6	9.3				
12.1	278	98	0.35	7	0.000884	1.56	0.0260	0.0010					165.6	6.0				
13.1	143	48	0.33	4	0.000786	1.15	0.0258	0.0009					164.1	5.8				
14.1	141	16	0.1	4	0.001463	1.02	0.0261	0.0014					166.3	8.6				
15.1	463	186	0.40	12	0.000721	0.34	0.0252	0.0008					160.6	5.0				
16.1	679	247	0.36	18	0.000603	<0.01	0.0253	0.0007					161.2	4.3				
17.1	391	188	0.48	11	0.000649	<0.01	0.0266	0.0008					169.5	5.2				
18.1	206	84	0.41	5	0.004789	7.64	0.0255	0.0010					162.1	6.0				
19.1	153	78	0.51	4	0.000401	1.07	0.0264	0.0011					167.9	6.7				
20.1	183	122	0.67	5	0.000769	0.79	0.0253	0.0010					161.0	6.1				
21.1	161	68	0.42	4	0.000001	0.85	0.0247	0.0010					157.2	6.4				
22.1	112	30	0.27	2	0.004380	0.89	0.0180	0.0007					114.8	4.5				
23.1	136	56	0.41	4	0.002979	2.50	0.0267	0.0010					170.1	6.1				
24.1	347	203	0.58	10	0.000167	0.19	0.0255	0.0007					162.6	4.7				
25.1	176	45	0.25	5	0.000570	<0.01	0.0272	0.0009					173.0	5.9				
26.1	173	90	0.52	5	0.001542	<0.01	0.0285	0.0013					181.1	8.0				
27.1	110	43	0.39	3	0.004771	4.82	0.0262	0.0011					166.9	7.1				
28.1	157	76	0.5	4	0.000864	2.25	0.0252	0.0012					160.4	7.3				
29.1	311	190	0.61	9	0.000121	<0.01	0.0262	0.0010					166.9	6.4				
30.1	136	41	0.30	3	0.000089	0.94	0.0190	0.0007					121.3	4.2				
31.1	690	196	0.28	13	0.000000	<0.01	0.0184	0.0006					117.3	3.9				
32.1	211	71	0.34	5	0.000268	0.78	0.0242	0.0013					154.2	8.2				
33.1	220	43	0.20	4	0.000324	0.62	0.0168	0.0008					107.6	5.1				
34.1	141	64	0.45	4	0.000401	0.84	0.0242	0.0017					154.3	10.7				
35.1	159	54	0.34	4	0.000235	1.68	0.0234	0.0010					149.0	6.3				
36.1	235	109	0.46	6	0.000001	0.62	0.0257	0.0008					163.6	5.2				
37.1	371	105	0.28	10	0.000076	0.18	0.0273	0.0009					173.5	5.6				
38.1	358	248	0.69	11	0.000228	0.29	0.0267	0.0009					169.8	5.6				
39.1	383	71	0.19	7	0.000191	0.19	0.0196	0.0006					125.0	3.7				
40.1	96	29	0.30	2	0.001006	0.97	0.0247	0.0014					157.4	8.9				
41.1	113	47	0.41	3	0.000241	0.95	0.0268	0.0010					170.4	6.5				
42.1	168	75	0.44	5	0.000588	0.84	0.0258	0.0008					164.5	5.0				
43.1	163	68	0.42	4	0.000301	0.75	0.0262	0.0010					166.7	6.5				

44.1	150	56	0.37	4	0.000114	0.25	0.0267	0.0009	169.9	5.3
45.1	178	108	0.60	5	0.001597	1.07	0.0250	0.0009	158.9	5.6
46.1	166	46	0.28	4	0.000001	0.37	0.0252	0.0010	160.4	6.4
47.1	231	109	0.47	6	0.000001	0.08	0.0259	0.0008	164.9	5.1
48.1	228	84	0.37	6	0.000001	0.50	0.0264	0.0009	167.7	5.7
49.1	3932	711	0.18	106	0.000074	<0.01	0.0273	0.0007	173.8	4.6
50.1	91	32	0.35	3	0.013162	24.1	0.0261	0.0018	166.2	11.5

Notes :

1. Uncertainties given at the one s level.
2. f_{206} % denotes the percentage of ^{206}Pb that is common Pb.
3. For areas >800 Ma, correction for common Pb made using the measured $^{204}Pb/^{206}Pb$ ratio.
4. For areas <800 Ma, correction for common Pb made using the measured $^{238}U/^{206}Pb$ and $^{207}Pb/^{206}Pb$ following Tera and Wasserburg (1972) as outlined in Compston et al. (1992).
5. For % Conc., 100% denotes a concordant analysis.

Table 4. Nanaimo Group detrital zircon analytical data relevant to Mahoney et. al. article.

Geological Survey of Canada Geochronology Laboratory (V. McNicoll)

- Precambrian age detrital zircons from the Nanaimo Group were reported and documented in Mustard et al., 1995. See especially Table 2 in that paper, sample MVM-90-62 (Gabriola Formation), sample analyses A,p,r,e ; B,p,r,e ; D, p, r, e ; J,c,f, el ; and L,c,f,el.

University of British Columbia Geochronology Laboratory (R. Friedman)

U-Pb ANALYTICAL DATA FOR DETRITAL ZIRCONS FROM THE NANAIMO GROUP

Fraction[1]	Wt	U[2]	Pb*[3]	$^{206}Pb^{4}$	Pb[5]	%[6]	$^{208}Pb^{7}$	Isotopic ratios (1σ,%)[8]			Apparent ages (2σ,Ma)[8]	
	μg	ppm	ppm	^{204}Pb	pg	Disc.	%	$^{206}Pb/^{238}U$	$^{207}Pb/^{235}U$	$^{207}Pb/^{206}Pb$	$^{206}Pb/^{238}U$	$^{207}Pb/^{206}Pb$
Geoffrey Formation:PSM96-029 UTM Zone 10; Easting 442220 Northing 5443310												
A vp,tr,ov	13	358	113	4020	21	1.7	11.2	0.29556 (0.09)	4.2325 (0.16)	0.10386 (0.08)	1669.3 (2.5)	1694.2 (3.0)
B vp,tr,tab	5	524	149	2049	22	4.3	5.6	0.28259 (0.10)	3.9885 (0.18)	0.10237 (0.10)	1604.4 (2.7)	1667.5 (3.8)
C vp,tr,ov	9	409	78	2388	18	2.9	11.0	0.18403 (0.12)	1.9518 (0.20)	0.07692 (0.11)	1089.0 (2.3)	1119.1 (4.3)
D vp,tr,ov	9	1565	440	16206	16	1.5	0.9	0.29360 (0.09)	4.1777 (0.15)	0.10320 (0.07)	1659.5 (2.7)	1682.5 (2.7)
E py,cl,ep	32	271	4	428	17	1.9	14.7	0.01311 (0.16)	0.0862 (0.89)	0.04772 (0.82)	83.9 (0.3)	86 (38/39)
DeCourcy Formation: PSM96-028A UTM Zone 10; Easting 435639 Northing 5444034												
A tan,tr,ov	16	1864	512	17728	28	7.7	4.6	0.27601 (0.11)	3.9351 (0.16)	0.10340 (0.07)	1571.3 (3.0)	1686.0 (2.7)
B vp,tr,br	10	431	122	3958	19	6.4	4.9	0.28296 (0.09)	4.0719 (0.16)	0.10437 (0.08)	1606.2 (2.6)	1703.2 (3.0)
C pp,cl,br	6	381	119	2153	19	2.7	8.1	0.30158 (0.21)	4.4271 (0.23)	0.10647 (0.18)	1699.2 (6.3)	1739.8 (6.4)
D pp,tr,br	7	224	68	1398	19	11.2	13.1	0.27826 (0.09)	4.1242 (0.19)	0.10750 (0.11)	1582.6 (2.7)	1757.4 (4.1)
F pp,,cl,ov	14	137	46	4397	8	0.9	9.4	0.32043 (0.10)	4.8772 (0.16)	0.11039 (0.08)	1791.8 (3.0)	1805.9 (3.1)
G pp,cl,s	12	181	59	4006	10	1.0	13.9	0.29411 (0.25)	4.1709 (0.27)	0.10285 (0.13)	1662.1 (7.2)	1676.2 (4.8)
H pp,cl,ov	10	311	93	6010	9	11.0	10.8	0.28039 (0.10)	4.1733 (0.16)	0.10795 (0.08)	1593.3 (2.9)	1765.1 (3.0)
I pp,cl,s	8	196	67	3516	9	1.1	9.5	0.32450 (0.18)	5.0034 (0.21)	0.11183 (0.13)	1811.7 (5.7)	1829.3 (4.6)
J pp,cl,ov	5	271	86	2709	9	2.5	6.3	0.31287 (0.11)	4.7318 (0.17)	0.10969 (0.09)	1754.8 (3.2)	1794.2 (3.2)
Protection Formation: PSM96-027 UTM Zone 10; Easting 432950 Northing 5447000												
A py,cl,ov	10	490	107	23381	3	26.5	9.0	0.21073 (0.09)	2.9076 (0.15)	0.10007 (0.07)	1232.7 (2.0)	1625.4 (2.7)
B py,cl,ov	10	930	255	66244	2	7.7	5.4	0.27296 (0.10)	3.8593 (0.15)	0.10254 (0.07)	1555.8 (2.7)	1670.7 (2.6)
C c,cl,ov	10	110	37	12813	2	3.0	9.0	0.31788 (0.10)	4.8953 (0.16)	0.11169 (0.08)	1779.4 (3.2)	1827.1 (2.7)
E pp,cl,ov	7	103	78	7636	6	7.5	14.2	0.59656 (0.12)	20.8848 (0.17)	0.25391 (0.08)	3016.0 (5.6)	3209.3 (2.4)
G pp,,cl,ov	10	144	45	7071	4	5.4	9.5	0.29919 (0.11)	4.4686 (0.16)	0.10832 (0.09)	1687.3 (3.2)	1771.4 (3.1)
H pp,cl,ov	13	136	42	2753	11	6.0	12.3	0.28719 (0.09)	4.1675 (0.16)	0.10525 (0.09)	1627.5 (2.6)	1718.6 (3.4)

Notes: Analytical techniques are listed in Mortensen et al. (1995).

[1] Upper case letter = fraction identifier; All fractions were single grains, nonmagnetic at 1°,1.8A and strongly air abraded (about 10-30%volume removed). All fractions were about 80-150μm in diameter, except E, PSM96-029 which was euhedral and about 600 x 150 x 150μm; Grain character codes; Colour: c=colourless; lp = pp= pale pink; vp = vivid pink; py= pale yellow; tan = tan; Clarity; cl = clear; tr = translucent; Grain shape; br= broken fragment, e=euhedral; ep=elongate prismatic; ov = ovoid;.s=stubby primatic; tab = tabular.

[2] U blank correction of 1pg ± 20%; U fractionation corrections were measured for each run with a double ^{233}U-^{235}U spike (about 0.004/amu).

[3]Radiogenic Pb

[4]Measured ratio corrected for spike and Pb fractionation of 0.0035/amu ± 20% (Daly collector) and 0.0012/amu ± 7% and laboratory blank Pb of 1-10pg ± 20%. Laboratory blank Pb concentrations and isotopic compositions based on total procedural blanks analysed throughout the duration of this study.

[5]Total common Pb in analysis based on blank isotopic composition.

[6]Radiogenic Pb

[7]% Discordant (to origin)

[8]Corrected for blank Pb, U and common Pb. Common Pb corrections based on Stacey Kramers model (Stacey and Kramers, 1975) at the age of the rock or the $^{207}Pb/^{206}Pb$ age of the fraction.

Australian National University (M. Fanning)

- see tables 1 and 2

Table 5: U-Pb Analytical Data for Detrital Zircons from the Longarm and Haida Formations, Queen Charlotte Islands:

Fraction[a]	Wt.[b] ^{207}Pb	U	Pb[c]	^{206}Pb[d] / ^{204}Pb	Pb[e]	^{208}Pb[f] / ^{206}Pb	$^{206}Pb/^{238}U$	$^{207}Pb/^{235}U$	$^{207}Pb/^{206}Pb$	$^{206}Pb/^{238}U$	$^{207}Pb/^{235}U$	$^{207}Pb/^{206}Pb$
	ug	ppm	ppm		pg							
Longarm Formation: HFB-95-36 (UTM 8, 690850E-5890575N)												
A1, f,e,c	6	289.2	6.887	144	21	0.14	0.02334±0.54	0.1513±3.0	0.04700±2.7	149 ± 2	143 ± 8	49 ± 122
B1, f,el,c	3	195.7	5.005	137	8	0.20	0.02381±0.70	0.1688±1.8	0.05142±1.6	152 ± 2	158 ± 5	260 ± 74
B2, f,pr,c	7	91.17	2.080	104	9	0.19	0.02131±1.1	0.1595±3.1	0.05428±2.5	136 ± 3	150 ± 8	383 ± 119
C2, r,e,p	2	153.7	57.74	526	16	0.08	0.3638±0.12	6.2559±0.24	0.1247±0.18	2000 ± 4	2012 ± 4	2025 ± 6
C4, r,e,p	2	116.8	43.64	652	8	0.07	0.3637±0.82	6.2843±0.75	0.1253±0.64	2000 ± 28	2016 ± 13	2033 ± 22
D2, sr,e,c	4	108.5	2.989	102	8	0.15	0.02670±4.0	0.1821±10.4	0.04947±8.5	170 ± 13	170 ±33	170 ±454
D3, sr,e,c	3	387.3	9.952	328	6	0.12	0.02561±0.19	0.1741±0.92	0.04931±0.82	163 ± 1	163 ± 3	163 ± 39
Haida Formation: HFB-95-31 (UTM 9, 308325E-5902525N)												
B1, f,el,c	5	143.5	3.550	149	8	0.14	0.02418±0.64	0.1657±1.7	0.04971±1.4	154 ± 2	156 ± 5	181 ± 67
B2, f,el,c	4	200.0	4.931	177	7	0.13	0.02440±0.67	0.1580±3.0	0.04697±2.7	155 ± 2	149 ± 8	48 ± 135
B3, f,el,c	1	300.0	7.623	138	4	0.09	0.02606±1.9	0.1752±5.2	0.04876±4.5	166±6	164±16	136± 228
B4, f,el,c	1	183.1	4.683	103	3	0.13	0.02516±1.0	0.1729±5.4	0.04984±4.9	160 ± 3	162 ± 16	188 ± 246
C1, r,e,p	3	84.8	45.13	1160	7	0.11	0.4826±0.16	11.4925±0.17	0.1727±0.10	2539 ± 7	2564 ± 3	2584 ± 3
C2, r,e,p	2	302.9	7.354	146	8	0.07	0.02520±0.79	0.1644±3.2	0.04731±2.9	160 ± 3	155 ± 9	65 ± 142
C3, r,c	2	134.8	7.699	48	39	0.11	0.05714±1.9	0.4014±20	0.05095±18	358 ± 13	343 ± 116	239 ± 683
C4, r,e,c	2	108.1	6.449	86	12	0.14	0.05831±0.59	0.4329±3.5	0.05385±3.2	365 ± 4	365 ± 22	365 ± 152
D2, sr,c	3	266.9	7.33	189	8	0.14	0.02694±0.40	0.1761±2.0	0.04741±1.8	171 ± 1	165 ± 6	70 ± 89
D3, sr,e,c	2	397.1	10.99	297	5	0.15	0.02676±0.23	0.1812±1.5	0.04912±1.4	170 ± 1	169 ± 5	154 ± 66
D4, sr,c	2	387.9	11.05	118	13	0.17	0.02711±0.51	0.1852±2.0	0.04955±1.7	172 ± 2	173 ± 6	174 ± 82
D5, sr,e,c	2	377.7	10.65	184	8	0.16	0.02712±0.34	0.1835±2.2	0.04905±1.9	172 ± 1	171 ± 7	150 ± 94

[a] All zircon fractions were strongly abraded; zircon descriptions: f=well faceted, r=round, sr=subrounded, e=equant, el=elongate, pr=prismatic (with aspect ratio of about 2-3:1), c=colourless, p=pink colour.

[b] Error on weight =± 1 ug.

[c] Radiogenic Pb.

[d] Measured ratio corrected for spike and Pb fractionation of 0.09±0.03%/AMU.

[e] Total common Pb on analysis corrected for fractionation and spike.

[f] Radiogenic Pb.

[g] Corrected for blank Pb and U and common Pb (Stacey-Kramers model Pb composition equivalent to the $^{207}Pb/^{206}Pb$ age).

[h] Corrected for blank and common Pb.