DR Item 2018352 accompanies Christe, G., LaMaskin, T.A., and Schweickert, R.A., 2018, Implications of new detrital-zircon data for the depositional history, provenance, and paleogeography of Upper Triassic–Middle Jurassic rocks within the Northern Sierra terrane, California, USA, *in* Ingersoll, R.V., Lawton, T.F., and Graham, S.A., eds., Tectonics, Sedimentary Basins, and Provenance: A Celebration of William R. Dickinson's Career: Geological Society of America Special Paper 540, p. 297–318, https://doi.org/10.1130/2018.2540(13).

Language for Analytical Data Repository:

To avoid potential biasing, zircon fractions were not magnetically separated following gravimetric separation. Unknowns and standards were mounted in 1-inch diameter epoxy pucks that were polished to expose the interior of grains. Photographs and cathodoluminescence images were used to provide base maps for data collection and to characterize the internal features of individual zircons. For samples with low zircon yields (i.e., <100), all recovered grains were mounted in epoxy. For samples with larger zircon yields, we mounted ~200 grains.

U-Pb data were obtained by laser ablation inductively coupled plasma mass spectrometry (LA-ICPMS) using a New Wave UP-213 (213nm, Nd:YAG) laser system coupled to a ThermoFinnigan Element 2 ICP-MS instrument at Washington State University using the method of Chang et al. (2006). The laser operated with fluence of 10-11 J/cm^2 and at a frequency of 10Hz, with a 30µm diameter ablation spot. For a few samples with small zircons, we used a 20µm spot with a frequency of 5 Hz. For each sample, we analyzed either every grain that was mounted or ~ 150 of the mounted grains.

Laser-induced, time-dependent elemental fractionation was corrected using the regression line method (Sylvester and Ghaderi, 1997; Horn et al., 2000; Košler et al., 2002) and is described in more detail in Chang et al. (2006). We used three primary standards during the course of this study to monitor and correct for mass bias and fractionation of U and Pb: (1) the in-house standard "Peixe" with a TIMS age of 564 ± 4 Ma (Dickinson and Gehrels, 2003), (2) the standard R33 from the Braintree Complex, Vermont, with a TIMS age of 419.26 ± 0.39 Ma (Black et al., 2004), and (3) the standard FC1 from the Duluth complex layered-mafic intrusion, Minnesota, with a TIMS age of 1099.1 ± 1.2 Ma (Paces and Miller, 1993; Schmitz et al., 2003). We analyzed 2-5 standards for every 5-15 unknowns analyzed and applied a fractionation/mass

bias correction (fractionation factor) based on measured isotopic ratios of the standard Peixe that bracketed the sample group. To check the accuracy of fractionation-factor corrections, we treated analyses of the standards R33 and FC1 as unknowns within each sample group. Mean values are within 2σ errors of reported TIM's ages for the respective standards and verify the long-term accuracy of our fractionation/mass bias corrections.

Data reduction was completed with an in-house program at Washington State University (Chang et al., 2006). Data with 1σ errors that were >5% of the grain age were excluded from further consideration. Because we were unable to apply a common-Pb correction using measured ^{204}Pb (Chang et al., 2006), we examined all analyses on Tera-Wasserburg concordia diagrams and applied an anchored ^{207}Pb-correction to grains with ^{206}Pb/^{238}U ages < 1000 Ma using the method of Williams (1998). Analyses interpreted as having a ~ 5% or greater contribution from common-Pb were discarded from further consideration (^{207}Pb/^{206}Pb of common Pb = 0.86; Cummings and Richards, 1975; Degraff-Surpless, 2003). Note that this method assumes the grain was originally concordant and that the common lead composition is known. For grains with ages greater than approximately 1000 Ma, we discarded any analyses that were >10% discordant (on the basis of ^{206}Pb/^{238}U vs. ^{207}Pb/^{206}Pb ages at 2σ) and did not apply any common-Pb correction. To plot Concordia diagrams and summed probability density functions (i.e., probability distributions) we used the programs of Ludwig (2003) and Gehrels et al. (2006).

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TABLE 1. DETRITAL ZIRCON SAMPLE RESULTS - BVS

DZ Grain ID	238U 206Pb	1 sigma % error	207Pb 206Pb	1 sigma % error	Th U	206/238 age†	1 sigma abs err	207/206 age	1 sigma abs err
BVS_001	31.3604	0.0165	0.0503	0.0118	0.68	202.3	3.3	211.2	27.1
BVS_002	31.6760	0.0170	0.0510	0.0127	0.28	200.4	3.4	239.4	29.1
BVS_003	33.4489	0.0177	0.0514	0.0196	0.30	189.9	3.3	257.0	44.5
BVS_004	31.3527	0.0166	0.0502	0.0112	0.50	202.4	3.3	206.3	25.9
BVS_005	31.2558	0.0174	0.0518	0.0129	0.63	203.0	3.5	275.1	29.4
BSV_006	32.8463	0.0193	0.0546	0.0162	0.25	193.3	3.7	396.0	35.8
BVS_007	32.3581	0.0191	0.0502	0.0173	0.32	196.2	3.7	205.3	39.6
BVS_008	31.9731	0.0168	0.0504	0.0107	0.43	198.5	3.3	215.2	24.6
BVS_009	31.3106	0.0186	0.0505	0.0167	0.38	202.7	3.7	218.3	38.3
BVS_012	32.0400	0.0119	1.6141	0.0313	0.39	198.1	2.3	221.9	79.7
BVS_015	32.6618	0.0120	1.6044	0.0311	0.43	194.4	2.3	187.4	79.4
BVS_016	31.1598	0.0120	1.6082	0.0314	0.26	203.6	2.4	215.5	79.3
BVS_018	31.5285	0.0125	1.5422	0.0328	0.40	201.3	2.5	221.1	82.8
BVS_019	30.3019	0.0168	1.2797	0.0398	0.47	209.3	3.5	237.6	87.1
BVS_021	31.7700	0.0185	1.2092	0.0427	0.56	199.8	3.6	271.0	85.0
BVS_022	31.8575	0.0167	1.2947	0.0391	0.36	199.2	3.3	226.3	84.6
BVS_024	32.5451	0.0174	1.2487	0.0401	0.23	195.1	3.3	199.1	89.5
BVS_028	33.9643	0.0189	1.1876	0.0431	0.36	187.1	3.5	248.2	88.4
BVS_029	32.2818	0.0167	1.2929	0.0388	0.42	196.7	3.2	202.1	84.7
BVS_030	32.1798	0.0154	1.3742	0.0361	0.38	197.3	3.0	179.9	82.2
BVS_031	32.2844	0.0327	0.7206	0.0783	0.37	196.6	6.3	467.8	88.5
BVS_032	32.1775	0.0107	0.8373	0.0641	0.49	197.3	2.1	358.1	36.7
BVS_033	34.1535	0.0111	0.8258	0.0629	0.46	186.0	2.0	283.5	38.5

Notes:

† = 206/238 ages corrected for common Pb using the method of Williams (1998) and Degraff-Surpless et al.(2003).

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TABLE 2. DETRITAL ZIRCON SAMPLE RESULTS - EPF

DZ Grain ID	238U 206Pb	1 sigma % error	207Pb 206Pb	1 sigma % error	Th U	206/238 age†	1 sigma abs err	207/206 age	1 sigma abs err
EPF_033	38.5140	0.0195	0.0554	0.0375	--	164.0	3.2	429.8	81.6
EPF_145	35.7742	0.0172	0.0618	0.0200	--	175.1	3.0	665.8	42.2
EPF_010	36.0650	0.0197	0.0493	0.0104	--	176.4	3.4	160.0	24.1
EPF_037	35.9539	0.0178	0.0504	0.0248	--	176.7	3.1	211.3	56.4
EPF_012	35.6587	0.0148	0.0525	0.0138	--	177.7	2.6	309.4	31.2
EPF_016	35.2865	0.0089	0.0521	0.0073	--	179.6	1.6	291.8	16.6
EPF_164	34.4820	0.0098	0.0602	0.0086	--	182.0	1.8	609.1	18.4
EPF_046	34.1302	0.0194	0.0529	0.0207	--	185.4	3.6	326.5	46.3
EPF_142	33.6685	0.0147	0.0500	0.0125	--	188.7	2.7	194.3	28.8
EPF_072	33.3920	0.0101	0.0517	0.0144	--	189.8	1.9	273.5	32.6
EPF_085	33.1864	0.0146	0.0538	0.0220	--	190.5	2.8	363.6	48.8
EPF_112	31.6760	0.0189	0.0550	0.0273	--	199.2	3.7	411.0	59.9
EPF_064	31.6167	0.0189	0.0501	0.0123	--	200.7	3.7	199.4	28.4
EPF_086	30.3293	0.0163	0.0517	0.0159	--	208.8	3.4	273.3	36.1
EPF_106	30.0152	0.0132	0.0516	0.0177	--	211.0	2.8	266.1	40.1
EPF_066	28.2235	0.0205	0.0549	0.0149	--	223.3	4.5	408.9	33.0
EPF_114	27.4389	0.0104	0.0524	0.0101	--	230.3	2.4	303.6	22.8
EPF_052	27.2372	0.0187	0.0522	0.0153	--	232.0	4.3	294.0	34.6
EPF_015	26.2827	0.0121	0.0503	0.0112	--	240.9	2.9	209.0	25.7
EPF_001	24.3023	0.0175	0.0520	0.0123	--	259.8	4.5	287.4	27.8
EPF_160	20.9150	0.0100	0.0536	0.0067	--	300.6	3.0	355.0	15.0
EPF_050	20.6505	0.0273	0.0558	0.0188	--	303.6	8.2	445.5	41.2
EPF_149	20.6571	0.0143	0.0537	0.0138	--	304.3	4.3	358.8	30.8
EPF_074	20.1295	0.0144	0.0533	0.0119	--	312.3	4.4	342.4	26.7
EPF_056	19.8000	0.0184	0.0582	0.0173	--	315.5	5.7	535.8	37.4
EPF_081	19.0195	0.0158	0.0542	0.0188	--	329.9	5.2	378.2	41.6
EPF_143	18.9294	0.0138	0.0537	0.0085	--	331.6	4.5	358.8	19.0
EPF_110	17.5080	0.0100	0.0551	0.0069	--	357.5	3.5	414.4	15.4
EPF_043	16.9626	0.0208	0.0567	0.0215	--	368.0	7.6	480.7	46.8
EPF_045	16.9296	0.0212	0.0556	0.0221	--	369.2	7.7	438.1	48.4
EPF_017	16.4658	0.0184	0.0548	0.0122	--	379.8	6.9	403.0	27.0
EPF_151	16.4018	0.0079	0.0564	0.0073	--	380.5	3.0	466.9	16.0
EPF_039	16.0842	0.0266	0.0574	0.0272	--	387.4	10.1	507.5	58.8
EPF_013	15.5692	0.0115	0.0553	0.0126	--	401.0	4.5	425.8	27.9
EPF_080	15.4962	0.0141	0.0548	0.0130	--	403.1	5.6	405.6	28.9
EPF_004	15.2703	0.0168	0.0557	0.0131	--	408.5	6.7	438.7	28.9
EPF_042	15.1580	0.0177	0.0555	0.0189	--	411.6	7.2	432.3	41.5
EPF_090	14.8569	0.0138	0.0574	0.0089	--	418.8	5.7	506.0	19.5
EPF_138	14.5311	0.0342	0.0624	0.0172	--	425.4	14.3	687.6	36.3
EPF_139	14.5361	0.0298	0.0564	0.0083	--	428.4	12.5	469.1	18.2

EPF_073	14.4271	0.0128	0.0624	0.0137	--	428.4	5.4	689.5	29.1
EPF_156	14.2303	0.0085	0.0554	0.0057	--	437.9	3.6	426.7	12.6
EPF_095	13.8619	0.0168	0.0574	0.0107	--	448.2	7.4	505.8	23.4
EPF_103	13.7637	0.0121	0.0563	0.0105	--	452.0	5.3	464.0	23.2
EPF_116	12.9388	0.0121	0.0571	0.0117	--	479.7	5.7	496.1	25.6
EPF_119	12.6863	0.0091	0.0571	0.0093	--	489.0	4.4	494.7	20.3
EPF_115	12.3013	0.0100	0.0593	0.0072	--	502.6	4.9	579.8	15.7
EPF_113	12.2396	0.0088	0.0583	0.0061	--	505.7	4.3	541.4	13.2
EPF_118	12.2252	0.0104	0.0580	0.0068	--	506.5	5.1	529.7	14.9
EPF_079	11.1893	0.0159	0.0590	0.0165	--	551.5	8.6	566.7	35.5
EPF_089	11.0486	0.0162	0.0599	0.0110	--	557.8	8.8	600.8	23.6
EPF_002	10.7074	0.0168	0.0650	0.0121	--	571.5	9.4	775.4	25.3
EPF_133	10.4454	0.0465	0.0656	0.0140	--	585.1	26.5	793.4	29.2
EPF_130	10.0695	0.0293	0.0615	0.0060	--	609.4	17.4	656.9	12.9
EPF_035	10.0604	0.0172	0.0620	0.0194	--	609.5	10.3	675.3	41.0
EPF_011	9.9738	0.0122	0.0595	0.0087	--	616.6	7.3	586.8	18.9
EPF_067	9.8346	0.0187	0.0603	0.0118	--	624.5	11.4	614.8	25.4
EPF_097	9.6880	0.0170	0.0677	0.0139	--	627.9	10.4	860.5	28.5
EPF_146	9.5491	0.0154	0.0625	0.0085	--	640.9	9.6	691.6	18.1
EPF_147	9.4776	0.0158	0.0616	0.0138	--	646.3	9.9	661.5	29.4
EPF_098	8.8707	0.0152	0.0624	0.0076	--	688.6	10.2	686.9	16.2
EPF_009	8.3023	0.0156	0.0634	0.0082	--	733.5	11.1	720.9	17.2
EPF_049	7.4607	0.0249	0.0739	0.0135	--	803.2	19.4	1037.9	27.1
EPF_117	6.9764	0.0100	0.0729	0.0054	--	858.2	8.4	1010.2	10.9
EPF_121	6.6467	0.0235	0.0763	0.0046	--	895.6	20.4	1102.9	9.2
EPF_121	6.6311	0.0078	0.0752	0.0065	--	898.9	6.8	1073.6	12.9
EPF_163	6.5091	0.0093	0.0734	0.0099	--	917.2	8.3	1024.0	19.8
EPF_041	6.3907	0.0200	0.0729	0.0137	--	934.1	18.1	1012.0	27.4
EPF_007	6.1742	0.0223	0.0775	0.0187	--	960.4	20.8	1134.3	36.7
EPF_071	6.1186	0.0106	0.0737	0.0117	--	973.4	10.0	1033.3	23.5
EPF_078	6.0853	0.0109	0.0718	0.0116	--	980.8	10.4	981.6	23.5
EPF_136	5.9922	0.0358	0.0752	0.0223	--	991.4	34.3	1073.3	44.2
EPF_005	5.5550	0.0102	0.0732	0.0042	--	1067.1	10.0	1019.2	8.4
EPF_040	5.8278	0.0089	0.0720	0.0053	--	1020.9	8.4	986.3	10.7
EPF_165	5.6838	0.0139	0.0737	0.0063	--	1044.7	13.4	1034.0	12.7
EPF_158	5.8143	0.0138	0.0738	0.0058	--	1023.1	13.0	1036.4	11.7
EPF_054	5.8707	0.0200	0.0738	0.0114	--	1014.0	18.8	1036.9	22.9
EPF_093	5.8336	0.0103	0.0744	0.0077	--	1019.9	9.7	1051.8	15.4
EPF_048	5.2809	0.0133	0.0748	0.0080	--	1117.9	13.6	1063.3	16.0
EPF_036	5.2252	0.0208	0.0753	0.0084	--	1128.8	21.5	1075.7	16.8
EPF_082	5.8879	0.0142	0.0754	0.0066	--	1011.2	13.2	1078.4	13.3
EPF_131	5.6857	0.0132	0.0754	0.0111	--	1044.4	12.7	1078.7	22.1
EPF_034	5.6123	0.0246	0.0756	0.0104	--	1057.0	23.9	1083.6	20.7
EPF_057	5.2994	0.0232	0.0761	0.0153	--	1114.3	23.7	1096.5	30.3
EPF_099	5.2908	0.0135	0.0761	0.0044	--	1116.0	13.8	1097.1	8.8
EPF_062	5.6104	0.0157	0.0761	0.0074	--	1057.4	15.3	1098.7	14.8
EPF_077	5.9464	0.0124	0.0766	0.0136	--	1002.0	11.5	1111.8	26.9
EPF_030	5.5643	0.0234	0.0774	0.0067	--	1065.4	23.0	1131.0	13.3
EPF_152	5.2200	0.0123	0.0780	0.0071	--	1129.9	12.7	1147.3	14.0
EPF_120	5.5886	0.0240	0.0786	0.0041	--	1061.2	23.4	1161.8	8.2

EPF_104	5.1003	0.0148	0.0787	0.0068	--	1154.1	15.6	1164.0	13.4
EPF_153	4.9853	0.0128	0.0788	0.0045	--	1178.5	13.7	1166.1	8.9
EPF_161	5.1594	0.0159	0.0789	0.0089	--	1142.0	16.6	1169.3	17.4
EPF_055	5.0166	0.0193	0.0793	0.0108	--	1171.8	20.7	1179.9	21.2
EPF_047	4.9278	0.0103	0.0797	0.0070	--	1191.0	11.2	1189.1	13.7
EPF_075	5.1743	0.0184	0.0809	0.0119	--	1139.0	19.2	1220.1	23.3
EPF_109	4.8285	0.0218	0.0813	0.0062	--	1213.4	24.1	1228.4	12.1
EPF_068	4.7004	0.0128	0.0818	0.0042	--	1243.4	14.5	1241.1	8.2
EPF_159	4.8362	0.0149	0.0820	0.0065	--	1211.6	16.5	1244.9	12.6
EPF_032	4.4198	0.0207	0.0845	0.0071	--	1314.8	24.6	1305.0	13.8
EPF_029	4.5279	0.0222	0.0846	0.0068	--	1286.4	25.9	1306.8	13.1
EPF_083	4.7411	0.0096	0.0848	0.0050	--	1233.7	10.8	1311.5	9.6
EPF_144	4.4224	0.0068	0.0862	0.0037	--	1314.1	8.1	1342.3	7.0
EPF_135	4.4488	0.0125	0.0872	0.0060	--	1307.1	14.8	1364.6	11.5
EPF_155	4.4236	0.0122	0.0881	0.0049	--	1313.8	14.5	1384.0	9.3
EPF_132	4.0995	0.0136	0.0886	0.0090	--	1407.1	17.2	1395.8	17.1
EPF_162	3.8899	0.0137	0.0888	0.0051	--	1474.9	18.0	1399.0	9.8
EPF_105	4.0787	0.0139	0.0910	0.0042	--	1413.5	17.7	1447.5	8.0
EPF_087	4.3363	0.0132	0.0914	0.0095	--	1337.7	15.9	1455.8	17.9
EPF_091	4.3708	0.0102	0.0918	0.0048	--	1328.2	12.3	1462.3	9.2
EPF_053	4.0284	0.0194	0.0922	0.0120	--	1429.4	24.9	1472.1	22.6
EPF_008	3.8117	0.0139	0.0930	0.0061	--	1501.8	18.6	1487.7	11.6
EPF_019	4.1520	0.0270	0.0932	0.0103	--	1391.1	33.6	1491.6	19.4
EPF_101	3.9333	0.0171	0.0932	0.0055	--	1460.3	22.2	1492.9	10.4
EPF_127	3.9316	0.0360	0.0938	0.0165	--	1460.9	46.8	1504.0	30.9
EPF_150	4.2003	0.0072	0.0943	0.0050	--	1376.7	8.9	1513.4	9.5
EPF_069	4.1119	0.0149	0.0949	0.0051	--	1403.3	18.8	1525.7	9.5
EPF_154	4.0360	0.0107	0.0952	0.0063	--	1427.0	13.7	1532.1	11.9
EPF_157	3.5607	0.0240	0.0984	0.0101	--	1595.6	33.8	1594.1	18.7
EPF_025	3.3146	0.0221	0.1009	0.0052	--	1699.7	32.9	1640.8	9.6
EPF_063	3.5131	0.0143	0.1011	0.0047	--	1614.7	20.5	1643.9	8.6
EPF_123	3.8295	0.0238	0.1015	0.0039	--	1495.6	31.7	1652.0	7.2
EPF_003	3.3694	0.0101	0.1019	0.0035	--	1675.4	14.9	1658.9	6.4
EPF_140	3.5091	0.0138	0.1037	0.0058	--	1616.4	19.7	1691.8	10.6
EPF_060	3.4651	0.0133	0.1067	0.0036	--	1634.5	19.1	1743.7	6.6
EPF_125	3.2807	0.0233	0.1071	0.0029	--	1715.1	35.0	1750.7	5.4
EPF_065	3.2263	0.0144	0.1096	0.0044	--	1740.5	22.0	1792.3	8.0
EPF_084	3.1033	0.0106	0.1109	0.0056	--	1800.7	16.6	1814.1	10.1
EPF_024	2.9981	0.0266	0.1116	0.0094	--	1855.5	42.7	1826.0	16.9
EPF_026	3.1016	0.0230	0.1159	0.0044	--	1801.5	36.0	1893.6	7.8
EPF_076	3.1902	0.0169	0.1180	0.0044	--	1757.7	26.0	1925.6	7.9
EPF_061	2.6675	0.0171	0.1271	0.0074	--	2052.4	30.0	2058.6	13.0
EPF_038	2.2337	0.0203	0.1775	0.0036	--	2385.0	40.3	2629.7	6.0
EPF_027	1.9291	0.0217	0.1846	0.0043	--	2692.3	47.6	2694.3	7.0
EPF_022	2.0599	0.0224	0.1990	0.0055	--	2551.1	47.1	2817.7	8.9

Notes:

† = 206/238 ages corrected for common Pb using the method of Williams (1998) and Degraff-Surpless et al.(2003).