Check Points Vertical Accuracy

Date: Monday, September 26, 2016
Check Point File Path: Y:\Mapping\Projects\65218797_MOA\Survey_Control\Laser_Control\NVA_VVA\MOA_NVA_VVA_points_UTM6_NAVD88_Meters.csv

Project Data Unit: Meter
Vertical Accuracy Class tested: 10.0-cm
Elevation Calculation Method: Interpolated from TIN
LiDAR Classifications Included: 2,8,17
Check Points in Report: 100
Check Points with LiDAR Coverage: 100
Average Vertical Error Reported: -0.035 Meter
Maximum (highest) Vertical Error Reported: 0.115 Meter
Median Vertical Error Reported: -0.030 Meter
Minimum (lowest) Vertical Error Reported: -0.157 Meter
Standard deviation of Vertical Error: 0.061 Meter
Skewness of Vertical Error: 0.205
Kurtosis of Vertical Error: -0.568
Non-vegetated Vertical Accuracy (NVA) RMSE(z): 6.966cm PASS
Non-vegetated Vertical Accuracy (NVA) at the 95% Confidence Level +/-: 13.653cm PASS
Vegetated Vertical Accuracy (VVA) at the 95th Percentile +/-: 15.180cm PASS
FGDC/NSSDA Vertical Accuracy at the 95% Confidence Level +/-: 13.653cm

This data set was tested to meet ASPRS Positional Accuracy Standard for Digital Geospatial Data (2014) for a 10.0-cm RMSEz Vertical Accuracy Class. Actual NVA accuracy was found to be RMSEz = 6.966cm, equating to +/- 13.653cm at the 95% confidence level. Actual VVA accuracy was found to be +/- 15.180cm at the 95th percentile.

Check Points Vertical Accuracy - continued

ID	X	Y	Coverage	Z	Z From LiDAR	NVA or VVA	Z Error	Minimum Z	Median Z	Maximum Z	Intensity	Scan Angle Rank	Returns	Description
3123	383044.476	6757507.319	Yes	10.394	10.547	VVA	0.153	10.541	10.55	10.553	37799	3474	1,1,1	VVA
3107	347917.573	6776567.158	Yes	85.747	85.894	VVA	0.147	85.877	85.895	85.944	54918	-2893	1,1,1	VVA
3108	348902.258	6778845.896	Yes	129.732	129.874	VVA	0.142	129.824	129.84	129.887	64679	-2732	1,1,1	VVA
709	341079.369	6781309.452	Yes	11.409	11.536	VVA	0.127	11.284	11.571	11.638	10060	497	2,2,2	VVA
708	343131.746	6788822.162	Yes	29.663	29.789	VVA	0.126	29.678	29.804	29.87	29006	115	2,2,2	VVA
309	341817.77	6787207.487	Yes	22.069	22.184	NVA	0.115	22.173	22.19	22.203	30882	1557	1,1,1	NVA
714	353877.284	6778279.928	Yes	461.967	462.082	VVA	0.115	462.031	462.08	462.158	40184	2185	1,1,1	VVA
3109	348784.643	6775342.809	Yes	119.265	119.378	VVA	0.113	119.274	119.341	119.404	50269	1931	1,1,1	VVA
701	367018.408	6812322.63	Yes	18.422	18.519	VVA	0.097	18.494	18.514	18.532	48189	-2295	3,3,1	VVA
401	364286.118	6806602.708	Yes	82.407	82.499	VVA	0.092	82.392	82.441	82.511	60356	912	1,1,2	VVA
710	341073.85	6781341.202	Yes	12.05	12.142	VVA	0.092	12.098	12.128	12.151	19689	1447	2,2,2	VVA
306	346505.057	6790840.326	Yes	15.463	15.55	NVA	0.087	15.509	15.512	15.562	37480	-983	1,1,1	NVA
608	378057.812	6791129.398	Yes	163.623	163.708	VVA	0.085	163.691	163.708	163.719	49523	-466	1,1,1	VVA
3127	376686.934	6757928.564	Yes	10.004	10.088	VVA	0.084	10.05	10.062	10.145	37863	1794	1,1,1	VVA
610	369347.559	6790214.892	Yes	711.264	711.347	VVA	0.083	711.324	711.366	711.394	58715	158	1,1,1	VVA
3143	362852.355	6763556.883	Yes	18.611	18.689	VVA	0.078	18.647	18.649	18.811	65280	1998	1,1,1	VVA
3054	341504.474	6780845.314	Yes	20.251	20.325	VVA	0.074	20.269	20.357	20.36	60754	-1864	1,1,1	VVA
307	344834.587	6788848.851	Yes	12.207	12.271	NVA	0.064	12.264	12.271	12.273	32411	1063	1,1,1	NVA
3135	361118.003	6763791.93	Yes	15.197	15.258	VVA	0.061	15.215	15.231	15.393	53324	-995	1,1,1	VVA
203	356859.743	6791773.233	Yes	130.998	131.058	NVA	0.06	131.016	131.058	131.06	23342	-1896	1,1,1	NVA
1013	356859.743	6791773.233	Yes	131.005	131.058	NVA	0.053	131.016	131.058	131.06	23342	-1896	1,1,1	NVA
703	362512.516	6803780.387	Yes	84.179	84.227	VVA	0.048	84.164	84.219	84.275	34195	-2473	2,2,2	VVA
803	352943.387	6789289.861	Yes	77.279	77.322	NVA	0.043	77.28	77.303	77.357	23137	425	1,1,1	NVA
322	385642.34	6760633.096	Yes	61.888	61.928	NVA	0.04	61.914	61.929	61.932	65280	-206	1,1,1	NVA
312	342241.7	6781311.728	Yes	13.6	13.639	NVA	0.039	13.624	13.633	13.644	32309	1365	1,1,1	NVA
707	363951.82	6799174.542	Yes	132.098	132.135	VVA	0.037	132.113	132.116	132.228	49957	1338	1,1,2	VVA
403	348859.545	6787371.206	Yes	48.905	48.938	VVA	0.033	48.919	48.932	48.954	60215	-2344	1,1,1	VVA
308	351793.463	6787729.371	Yes	67.837	67.865	NVA	0.028	67.847	67.89	67.897	32437	2179	1,1,1	NVA
607	367985.082	6794243.267	Yes	572.321	572.348	VVA	0.027	572.172	572.317	572.536	47177	-188	1,1,1	VVA
3026	346905.005	6786248.877	Yes	43.983	44.009	VVA	0.026	43.861	44.122	44.146	61726	-1347	1,1,1	VVA
3047	344689.701	6778656.105	Yes	39.426	39.446	NVA	0.02	39.43	39.445	39.495	32851	2058	1,1,1	NVA
315	350814.294	6776234.614	Yes	251.374	251.391	NVA	0.017	251.349	251.398	251.401	19543	-2706	1,1,1	NVA
801	368427.37	6811532.31	Yes	96.025	96.04	NVA	0.015	96.036	96.036	96.076	43723	2369	1,1,1	NVA
405	381878.083	6758400.735	Yes	7.834	7.845	VVA	0.011	7.78	7.839	7.858	43458	-2545	1,1,1	VVA
3113	348818.537	6784651.289	Yes	58.107	58.118	NVA	0.011	58.1	58.112	58.151	30671	1777	1,1,1	NVA

Check Points Vertical Accuracy - continued

ID	X	Y	Coverage	Z	Z From LiDAR	NVA or VVA	Z Error	Minimum Z	Median Z	Maximum Z	Intensity	Scan Angle Rank	Returns	Description
802	362235.976	6801127.444	Yes	97.002	97.012	NVA	0.01	96.987	97.002	97.05	64980	-2210	1,1,1	NVA
3140	369029.173	6760147.208	Yes	26.21	26.218	VVA	0.008	26.214	26.227	26.249	65280	3206	1,1,1	VVA
304	362266.853	6799629.165	Yes	84.655	84.659	NVA	0.004	84.631	84.661	84.669	50201	-1014	1,1,1	NVA
1048	355247.312	6784293.42	Yes	293.603	293.605	NVA	0.002	293.51	293.528	293.623	62996	-3218	1,1,1	NVA
303	364089.911	6800982.824	Yes	189.288	189.289	NVA	0.001	189.272	189.279	189.299	51907	-2296	1,1,1	NVA
310	348265.004	6783945.263	Yes	51.738	51.737	NVA	-0.001	51.73	51.742	51.757	25404	-1299	1,1,1	NVA
316	348782.785	6775712.815	Yes	109.85	109.841	NVA	-0.009	109.776	109.825	109.85	22371	581	1,1,1	NVA
839	352055.413	6777174.943	Yes	291.783	291.774	NVA	-0.009	291.694	291.768	291.85	34463	-66	1,1,1	NVA
3089	340693.991	6781133.189	Yes	18.215	18.202	NVA	-0.013	18.173	18.191	18.248	29246	-1724	1,1,1	NVA
3048	344303.527	6778671.884	Yes	36.549	36.534	NVA	-0.015	36.529	36.538	36.587	27406	880	1,1,1	NVA
323	384451.429	6760430.594	Yes	36.133	36.116	NVA	-0.017	36.102	36.107	36.121	65280	1654	1,1,1	NVA
324	382766.777	6759228.981	Yes	27.092	27.072	NVA	-0.02	27.048	27.064	27.11	65280	-1446	1,1,1	NVA
805	382373.717	6758118.718	Yes	9.414	9.394	NVA	-0.02	9.361	9.396	9.427	45882	1524	1,1,1	NVA
554	347646.794	6773781.609	Yes	7.266	7.245	VVA	-0.021	7.206	7.26	7.271	40739	3534	1,1,1	VVA
1023	356862.375	6791750.84	Yes	130.584	130.562	NVA	-0.022	130.547	130.566	130.571	22640	-2791	1,1,1	NVA
711	347511.246	6775545.042	Yes	43.141	43.119	VVA	-0.022	42.965	43.24	43.261	9812	1732	2,1,2	VVA
305	365318.828	6798899.778	Yes	122.825	122.799	NVA	-0.026	122.747	122.808	122.895	34205	2089	1,1,1	NVA
1014	356868.337	6791807.56	Yes	131.583	131.553	NVA	-0.03	131.526	131.53	131.591	22491	-2629	1,1,1	NVA
402	363902.234	6798498.197	Yes	106.289	106.255	VVA	-0.034	106.21	106.302	106.356	15365	-636	1,1,1	VVA
404	364803.481	6763694.32	Yes	12.63	12.586	VVA	-0.044	12.577	12.589	12.624	65280	-3422	1,1,1	VVA
1036	362874.022	6792393.122	Yes	677.484	677.439	NVA	-0.045	677.353	677.417	677.476	34395	-389	1,1,1	NVA
3058	353732.229	6788999.321	Yes	86.658	86.613	VVA	-0.045	86.553	86.565	86.644	65280	-1707	1,1,1	VVA
715	367202.616	6797434.857	Yes	149.145	149.097	VVA	-0.048	149.027	149.114	149.173	30802	1549	1,2,1	VVA
1020	356865.263	6791767.213	Yes	130.974	130.925	NVA	-0.049	130.872	130.953	130.962	23741	-2433	1,1,1	NVA
1031	362891.2	6792401.791	Yes	678.661	678.612	NVA	-0.049	678.547	678.585	678.667	36231	-1819	1,1,1	NVA
1037	355191.729	6784312.203	Yes	292.734	292.685	VVA	-0.049	292.674	292.688	292.708	29426	2874	1,1,1	VVA
300	363701.069	6805139.386	Yes	113.318	113.266	NVA	-0.052	113.219	113.287	113.313	63376	-2016	1,1,1	NVA
302	364653.856	6807938.454	Yes	62.44	62.388	NVA	-0.052	62.374	62.384	62.407	63309	542	1,1,1	NVA
314	353899.515	6778305.515	Yes	461.693	461.64	NVA	-0.053	461.61	461.625	461.663	63816	3501	1,1,1	NVA
317	348980.194	6773585.75	Yes	41.569	41.515	NVA	-0.054	41.493	41.546	41.553	35495	-1721	1,1,1	NVA
706	367183.032	6797433.912	Yes	152.569	152.513	VVA	-0.056	152.306	152.569	152.581	65280	2016	2,2,2	VVA
209	357900.008	6785026.787	Yes	864.295	864.238	VVA	-0.057	864.224	864.249	864.272	55708	1960	1,1,1	VVA
311	345361.565	6783122.936	Yes	27.467	27.41	NVA	-0.057	27.329	27.405	27.417	32977	-589	1,1,1	NVA
712	364293.073	6764039.08	Yes	26.602	26.54	VVA	-0.062	26.481	26.503	26.591	38067	898	2,2,2	VVA
3028	349136.054	6788994.601	Yes	45.202	45.131	VVA	-0.071	45.121	45.152	45.152	65280	-2021	1,1,1	VVA

Check Points Vertical Accuracy - continued

ID	X	Y	Coverage	Z	Z From LiDAR	NVA or VVA	Z Error	Minimum Z	Median Z	Maximum Z	Intensity	Scan Angle Rank	Returns	Description
804	345825.379	6786400.763	Yes	39.473	39.4	NVA	-0.073	39.377	39.444	39.446	51387	-442	1,1,1	NVA
1042	355229.047	6784294.319	Yes	292.762	292.688	NVA	-0.074	292.674	292.69	292.691	58272	1290	1,1,1	NVA
1059	361723.797	6801196.12	Yes	95.079	95.003	NVA	-0.076	94.97	95.012	95.013	48192	-2274	1,1,1	NVA
206	355191.729	6784312.203	Yes	292.762	292.685	VVA	-0.077	292.674	292.688	292.708	29426	2874	1,1,1	VVA
313	350224.058	6781171.712	Yes	122.377	122.295	NVA	-0.082	122.279	122.287	122.31	32427	1926	1,1,1	NVA
202	361835.534	6803088.831	Yes	83.161	83.078	NVA	-0.083	83.047	83.076	83.126	65280	1781	1,1,1	NVA
704	364689.818	6801843.379	Yes	305.193	305.107	VVA	-0.086	305.058	305.084	305.124	48549	1686	1,2,2	VVA
1056	361728.132	6801204.159	Yes	94.983	94.892	NVA	-0.091	94.884	94.885	94.921	62768	-2302	1,1,1	NVA
1054	361722.954	6801204.336	Yes	94.91	94.817	NVA	-0.093	94.792	94.819	94.834	49844	-2185	1,1,1	NVA
1005	361839.675	6803013.006	Yes	79.935	79.841	NVA	-0.094	79.8	79.804	79.848	54456	-3409	1,1,1	NVA
1025	362905.706	6792431.97	Yes	681.413	681.319	VVA	-0.094	681.255	681.284	681.355	47391	-301	1,1,1	VVA
2003	340889.432	6786193.426	Yes	25.474	25.38	VVA	-0.094	25.34	25.347	25.393	57369	-797	1,1,1	VVA
1058	361728.376	6801196.184	Yes	95.13	95.035	NVA	-0.095	95.033	95.04	95.046	52908	-2302	1,1,1	NVA
201	361837.498	6803105.002	Yes	83.618	83.521	VVA	-0.097	83.507	83.524	83.531	65280	1761	1,1,1	VVA
702	366567.069	6807919.856	Yes	111.386	111.288	VVA	-0.098	111.11	111.269	111.316	33126	245	1,1,1	VVA
200	361823.742	6803104.445	Yes	83.677	83.576	NVA	-0.101	83.534	83.559	83.586	65280	1359	1,1,1	NVA
1051	361716.559	6801204.599	Yes	94.823	94.72	NVA	-0.103	94.691	94.72	94.783	51562	-2264	1,1,1	NVA
705	382390.038	6758520.898	Yes	27.046	26.942	VVA	-0.104	26.894	26.905	26.982	65280	-510	2,1,2	VVA
1052	361718.386	6801204.515	Yes	94.828	94.723	NVA	-0.105	94.721	94.728	94.745	48941	-2355	1,1,1	NVA
301	367810.026	6810947.546	Yes	52.894	52.789	NVA	-0.105	52.769	52.787	52.885	7408	-2170	1,1,1	NVA
205	362905.706	6792431.97	Yes	681.426	681.319	NVA	-0.107	681.255	681.284	681.355	47391	-301	1,1,1	NVA
1012	361829.597	6803006.177	Yes	79.91	79.801	NVA	-0.109	79.79	79.802	79.807	65280	836	1,1,1	NVA
1004	361835.388	6803012.684	Yes	79.973	79.862	NVA	-0.111	79.846	79.858	79.888	65280	914	1,1,1	NVA
615	378800.146	6815391.395	Yes	395.39	395.274	VVA	-0.116	395.253	395.305	395.306	65280	-302	1,1,1	VVA
1060	361718.624	6801196.419	Yes	95	94.878	NVA	-0.122	94.849	94.913	94.917	54154	-2112	1,1,1	NVA
2000	342073.353	6786406.934	Yes	23.21	23.087	VVA	-0.123	23.078	23.087	23.089	64689	1385	1,1,1	VVA
1038	355194.051	6784289.671	Yes	292.32	292.176	NVA	-0.144	292.12	292.15	292.22	45049	2253	1,1,1	NVA
2002	340887.996	6786208.657	Yes	25.453	25.296	VVA	-0.157	25.295	25.318	25.341	64153	-150	1,1,1	VVA
1026	362910.788	6792409.77	Yes	679.659	679.502	NVA	-0.157	679.471	679.512	679.523	34574	384	1,1,1	NVA
713	363985.81	6764380.299	Yes	51.032	50.86	VVA	-0.172	50.819	50.882	50.922	21655	2504	2,3,2	VVA

Check Points Vertical Accuracy - continued

NVA

Occurrence (y-axis): 0, 1, 2, 3, 4, 5, 6, 7, 8, 9

Z Error (Meter) (x-axis): -0.157, -0.130, -0.103, -0.075, -0.048, -0.021, 0.006, 0.033, 0.061, 0.088, 0.115
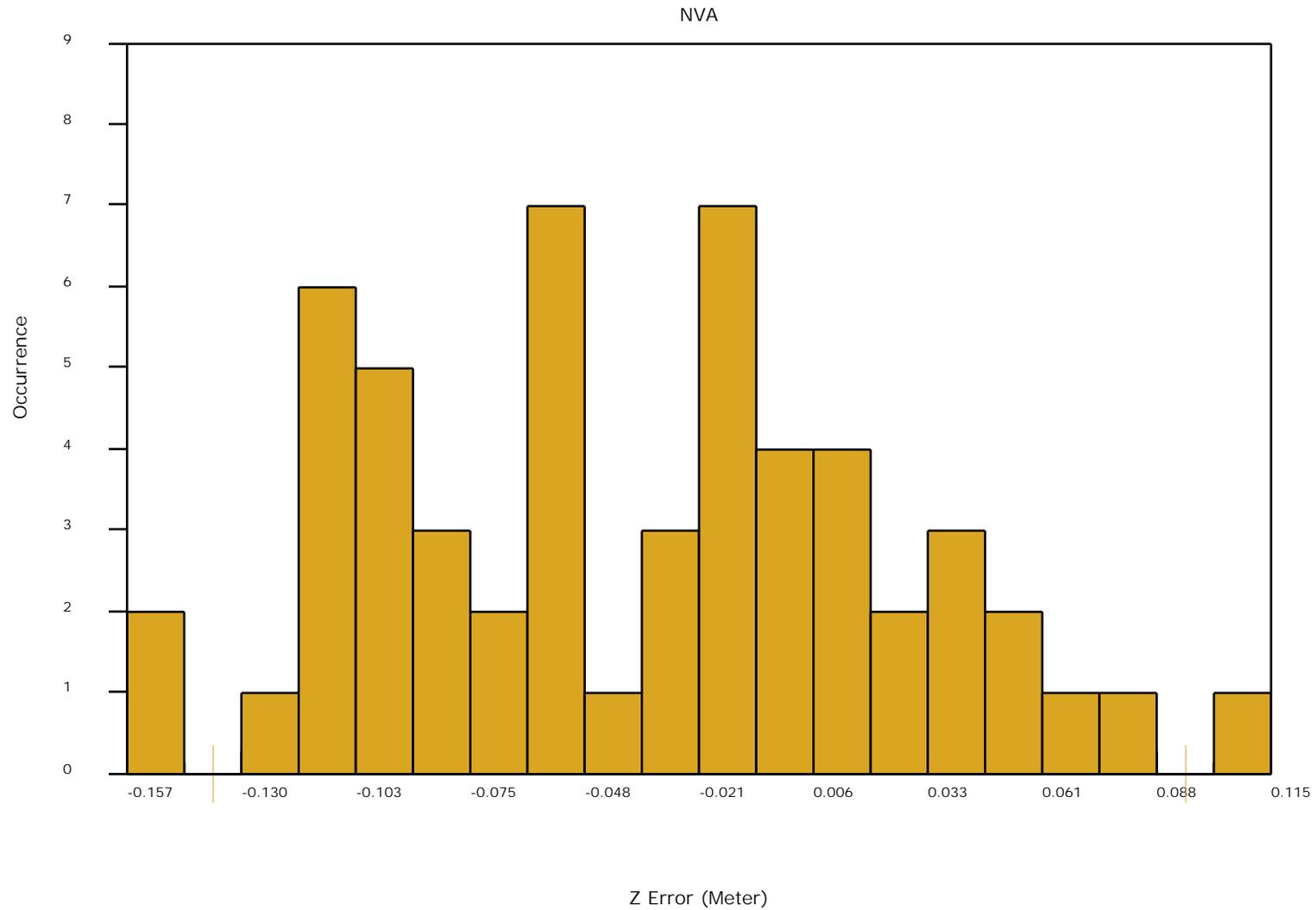
Check Points Vertical Accuracy - continued
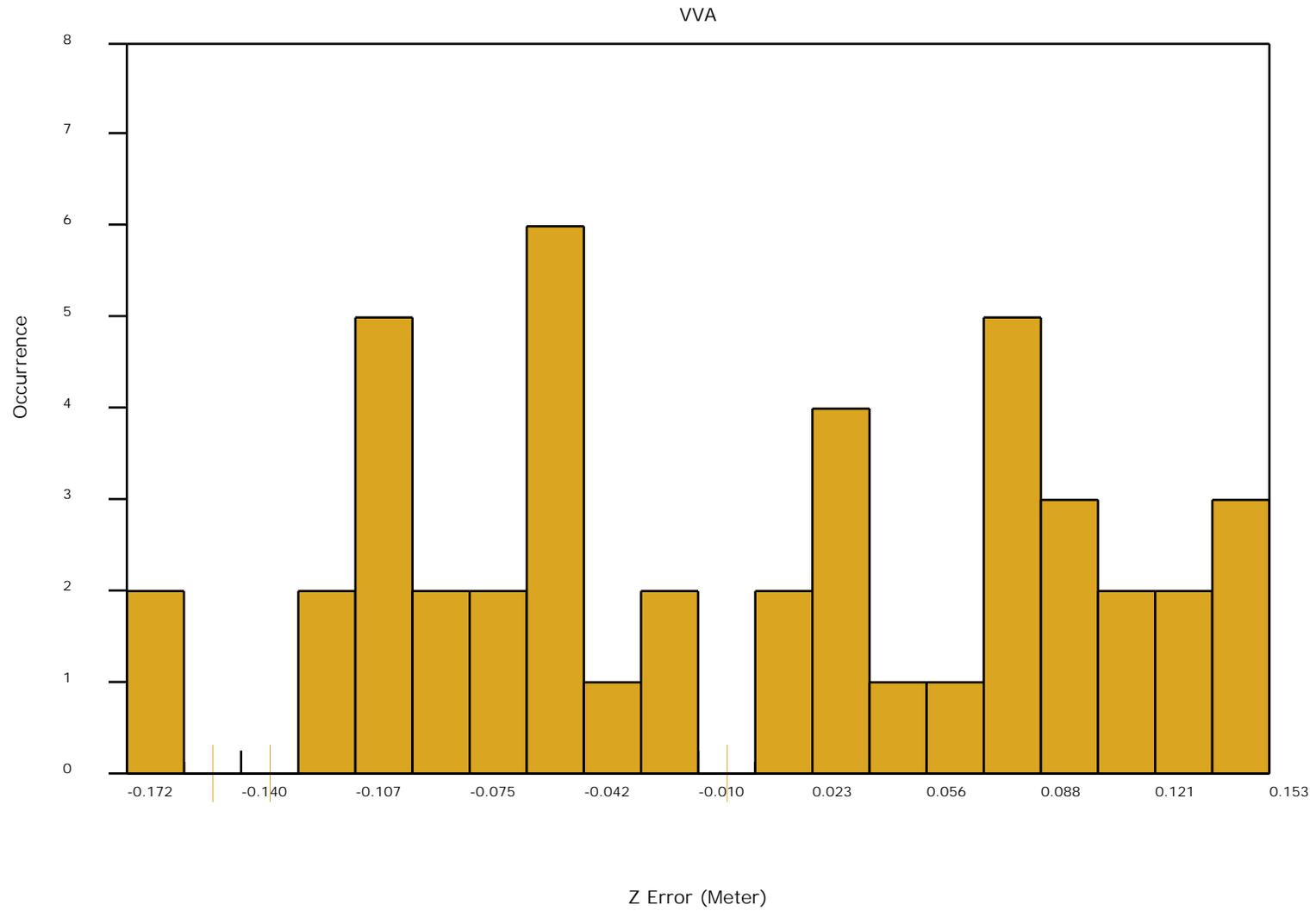
Check Points Vertical Accuracy - continued

Total LAS Files: 2417

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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Check Points Vertical Accuracy - continued

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