

MINIDIGI搭載モデルロケット						
	機体質量[kg]	0.13	dt[s]		0.05	
	使用エンジン	B6-4	打上平均質量[kg]		0.1175	
	エンジン初期質量[kg]	0.0191	断面積[m <sup>2</sup> ]		0.000491	
	推進薬質量[kg]					
	抗力係数	0.75	空気密度[kg/m <sup>3</sup> ]		1.225	
	直径[m]	0.025				
時間[s]	質量[kg]	推力[N]	抗力[N]	加速度[m/s <sup>2</sup> ]	速度[m/s]	高度[m]
0	0.1175	0	0	0	0	0
0.05	0.1175	1.973	0	6.991489	0	0
0.1	0.1175	5.92	2.76E-05	40.58274	0.349574	0.008739
0.15	0.1175	10.06	0.001276	75.80616	2.378712	0.076947
0.2	0.1175	11.64	0.008584	89.19078	6.16902	0.29064
0.25	0.1175	6.709	0.02548	47.08102	10.62856	0.710579
0.3	0.1175	5.526	0.038017	36.90624	12.98261	1.300858
0.35	0.1175	4.934	0.049592	31.76943	14.82792	1.996122
0.4	0.1175	4.736	0.060786	29.98905	16.41639	2.77723
0.45	0.1175	4.539	0.072397	28.21364	17.91585	3.635536
0.5	0.1175	4.539	0.084247	28.11279	19.32653	4.566595
0.55	0.1175	4.539	0.096948	28.0047	20.73217	5.568062
0.6	0.1175	4.342	0.110486	26.21289	22.1324	6.639677
0.65	0.1175	4.342	0.123959	26.09822	23.44305	7.779063
0.7	0.1175	4.342	0.138143	25.97751	24.74796	8.983838
0.75	0.1175	4.342	0.153024	25.85086	26.04683	10.25371
0.8	0.1175	3.947	0.168588	22.3567	27.33938	11.58836
0.85	0.1175	4.144	0.182656	23.91357	28.45721	12.98328
0.9	0.1175	0	0.198327	-11.4879	29.65289	14.43603
0.95	0.1175	0	0.190718	-11.4231	29.0785	15.90431
1	0.1175	0	0.1833	-11.36	28.50734	17.34396
1.05	0.1175	0	0.176068	-11.2985	27.93934	18.75513
1.1	0.1175	0	0.16902	-11.2385	27.37442	20.13797
1.15	0.1175	0	0.162152	-11.18	26.81249	21.49264
1.2	0.1175	0	0.155462	-11.1231	26.25349	22.81929
1.25	0.1175	0	0.148945	-11.0676	25.69734	24.11806
1.3	0.1175	0	0.142599	-11.0136	25.14396	25.3891
1.35	0.1175	0	0.136421	-10.961	24.59328	26.63253
1.4	0.1175	0	0.130409	-10.9099	24.04522	27.84849
1.45	0.1175	0	0.124559	-10.8601	23.49973	29.03711
1.5	0.1175	0	0.118869	-10.8117	22.95673	30.19853
1.55	0.1175	0	0.113337	-10.7646	22.41615	31.33285
1.6	0.1175	0	0.107959	-10.7188	21.87792	32.4402
1.65	0.1175	0	0.102735	-10.6743	21.34198	33.5207
1.7	0.1175	0	0.097661	-10.6312	20.80826	34.57445
1.75	0.1175	0	0.092735	-10.5892	20.2767	35.60158
1.8	0.1175	0	0.087955	-10.5486	19.74724	36.60217
1.85	0.1175	0	0.08332	-10.5091	19.21981	37.57635
1.9	0.1175	0	0.078826	-10.4709	18.69436	38.52421
1.95	0.1175	0	0.074473	-10.4338	18.17081	39.44583
2	0.1175	0	0.070258	-10.3979	17.64912	40.34133
2.05	0.1175	0	0.06618	-10.3632	17.12923	41.21079
2.1	0.1175	0	0.062236	-10.3297	16.61107	42.0543
2.15	0.1175	0	0.058426	-10.2972	16.09458	42.87194
2.2	0.1175	0	0.054748	-10.2659	15.57972	43.6638
2.25	0.1175	0	0.0512	-10.2357	15.06642	44.42995
2.3	0.1175	0	0.047781	-10.2066	14.55464	45.17048
2.35	0.1175	0	0.044489	-10.1786	14.0443	45.88545
2.4	0.1175	0	0.041323	-10.1517	13.53537	46.57494
2.45	0.1175	0	0.038282	-10.1258	13.02779	47.23902

2.5	0.1175	0	0.035364	-10.101	12.5215	47.87775
2.55	0.1175	0	0.032569	-10.0772	12.01645	48.4912
2.6	0.1175	0	0.029895	-10.0544	11.51259	49.07943
2.65	0.1175	0	0.027341	-10.0327	11.00987	49.64249
2.7	0.1175	0	0.024906	-10.012	10.50823	50.18044
2.75	0.1175	0	0.02259	-9.99225	10.00764	50.69334
2.8	0.1175	0	0.020391	-9.97354	9.508023	51.18123
2.85	0.1175	0	0.018308	-9.95581	9.009347	51.64417
2.9	0.1175	0	0.016341	-9.93907	8.511556	52.08219
2.95	0.1175	0	0.014488	-9.9233	8.014603	52.49534
3	0.1175	0	0.01275	-9.90851	7.518437	52.88367
3.05	0.1175	0	0.011125	-9.89468	7.023012	53.2472
3.1	0.1175	0	0.009613	-9.88181	6.528278	53.58599
3.15	0.1175	0	0.008213	-9.8699	6.034187	53.90005
3.2	0.1175	0	0.006924	-9.85893	5.540693	54.18942
3.25	0.1175	0	0.005747	-9.84891	5.047746	54.45413
3.3	0.1175	0	0.00468	-9.83983	4.555301	54.69421
3.35	0.1175	0	0.003724	-9.83169	4.063309	54.90967
3.4	0.1175	0	0.002877	-9.82449	3.571724	55.10055
3.45	0.1175	0	0.00214	-9.81822	3.0805	55.26685
3.5	0.1175	0	0.001513	-9.81287	2.589589	55.40861
3.55	0.1175	0	0.000994	-9.80846	2.098945	55.52582
3.6	0.1175	0	0.000584	-9.80497	1.608523	55.61851
3.65	0.1175	0	0.000282	-9.8024	1.118274	55.68668
3.7	0.1175	0	8.9E-05	-9.80076	0.628154	55.73034
3.75	0.1175	0	4.3E-06	-9.80004	0.138116	55.74949
3.8	0.1175	0	-2.8E-05	-9.79976	-0.35189	55.74415
3.85	0.1175	0	-0.00016	-9.79864	-0.84187	55.71431
3.9	0.1175	0	-0.0004	-9.7966	-1.33181	55.65996
3.95	0.1175	0	-0.00075	-9.79363	-1.82164	55.58113
4	0.1175	0	-0.0012	-9.78975	-2.31132	55.4778
4.05	0.1175	0	-0.00177	-9.78494	-2.8008	55.35
4.1	0.1175	0	-0.00244	-9.77922	-3.29005	55.19773
4.15	0.1175	0	-0.00322	-9.77259	-3.77901	55.021
4.2	0.1175	0	-0.00411	-9.76504	-4.26764	54.81984
4.25	0.1175	0	-0.0051	-9.75658	-4.75589	54.59425
4.3	0.1175	0	-0.0062	-9.74722	-5.24372	54.34426
4.35	0.1175	0	-0.00741	-9.73695	-5.73108	54.06989
4.4	0.1175	0	-0.00872	-9.72578	-6.21793	53.77116
4.45	0.1175	0	-0.01014	-9.71372	-6.70422	53.44811
4.5	0.1175	0	-0.01166	-9.70077	-7.18991	53.10075
4.55	0.1175	0	-0.01329	-9.68693	-7.67494	52.72913
4.6	0.1175	0	-0.01502	-9.6722	-8.15929	52.33328
4.65	0.1175	0	-0.01685	-9.65661	-8.6429	51.91322
4.7	0.1175	0	-0.01878	-9.64014	-9.12573	51.46901
4.75	0.1175	0	-0.02082	-9.6228	-9.60774	51.00067
4.8	0.1175	0	-0.02296	-9.60461	-10.0889	50.50826
4.85	0.1175	0	-0.0252	-9.58557	-10.5691	49.99181
4.9	0.1175	0	-0.02753	-9.56568	-11.0484	49.45137
4.95	0.1175	0	-0.02997	-9.54495	-11.5267	48.88699
5	0.1175	0	-0.0325	-9.5234	-12.0039	48.29873
5.05	0.1175	0	-0.03513	-9.50102	-12.4801	47.68663
5.1	0.1175	0	-0.03786	-9.47782	-12.9551	47.05075
5.15	0.1175	0	-0.04068	-9.45382	-13.429	46.39114
5.2	0.1175	0	-0.04359	-9.42902	-13.9017	45.70787
5.25	0.1175	0	-0.0466	-9.40343	-14.3732	45.001
5.3	0.1175	0	-0.04969	-9.37706	-14.8433	44.27059
5.35	0.1175	0	-0.05288	-9.34992	-15.3122	43.5167
5.4	0.1175	0	-0.05616	-9.32202	-15.7797	42.7394
5.45	0.1175	0	-0.05953	-9.29337	-16.2458	41.93876

5.5	0.1175	0	-0.06298	-9.26397	-16.7105	41.11486
5.55	0.1175	0	-0.06652	-9.23384	-17.1737	40.26775
5.6	0.1175	0	-0.07015	-9.20299	-17.6354	39.39753
5.65	0.1175	0	-0.07386	-9.17143	-18.0955	38.50426
5.7	0.1175	0	-0.07765	-9.13917	-18.5541	37.58802
5.75	0.1175	0	-0.08152	-9.10622	-19.011	36.64889
5.8	0.1175	0	-0.08547	-9.07259	-19.4663	35.68696
5.85	0.1175	0	-0.0895	-9.03829	-19.92	34.7023
5.9	0.1175	0	-0.09361	-9.00334	-20.3719	33.695
5.95	0.1175	0	-0.09779	-8.96774	-20.8221	32.66515
6	0.1175	0	-0.10205	-8.93151	-21.2704	31.61284
6.05	0.1175	0	-0.10638	-8.89466	-21.717	30.53815
6.1	0.1175	0	-0.11078	-8.8572	-22.1618	29.44118
6.15	0.1175	0	-0.11525	-8.81914	-22.6046	28.32203
6.2	0.1175	0	-0.11979	-8.7805	-23.0456	27.18077
6.25	0.1175	0	-0.1244	-8.74129	-23.4846	26.01752
6.3	0.1175	0	-0.12907	-8.70152	-23.9217	24.83236
6.35	0.1175	0	-0.13381	-8.6612	-24.3567	23.6254
6.4	0.1175	0	-0.13861	-8.62034	-24.7898	22.39674
6.45	0.1175	0	-0.14347	-8.57896	-25.2208	21.14647
6.5	0.1175	0	-0.14839	-8.53707	-25.6498	19.87471
6.55	0.1175	0	-0.15337	-8.49469	-26.0766	18.58155
6.6	0.1175	0	-0.15841	-8.45182	-26.5013	17.2671
6.65	0.1175	0	-0.1635	-8.40848	-26.9239	15.93147
6.7	0.1175	0	-0.16865	-8.36469	-27.3444	14.57476
6.75	0.1175	0	-0.17385	-8.32044	-27.7626	13.19709
6.8	0.1175	0	-0.1791	-8.27577	-28.1786	11.79856
6.85	0.1175	0	-0.1844	-8.23068	-28.5924	10.37928
6.9	0.1175	0	-0.18974	-8.18518	-29.0039	8.939371
6.95	0.1175	0	-0.19513	-8.13928	-29.4132	7.478942
7	0.1175	0	-0.20057	-8.09301	-29.8202	5.998108
7.05	0.1175	0	-0.20605	-8.04637	-30.2248	4.496984
7.1	0.1175	0	-0.21157	-7.99937	-30.6271	2.975685
7.15	0.1175	0	-0.21714	-7.95204	-31.0271	1.434329
7.2	0.1175	0	-0.22274	-7.90437	-31.4247	-0.12697
7.25	0.1175	0	-0.22837	-7.85639	-31.8199	-1.70808
7.3	0.1175	0	-0.23405	-7.80811	-32.2127	-3.3089
7.35	0.1175	0	-0.23976	-7.75953	-32.6031	-4.9293
7.4	0.1175	0	-0.2455	-7.71068	-32.9911	-6.56915
7.45	0.1175	0	-0.25127	-7.66156	-33.3767	-8.22835
7.5	0.1175	0	-0.25707	-7.61219	-33.7597	-9.90676
7.55	0.1175	0	-0.2629	-7.56258	-34.1403	-11.6043
7.6	0.1175	0	-0.26875	-7.51275	-34.5185	-13.3207
7.65	0.1175	0	-0.27463	-7.4627	-34.8941	-15.056
7.7	0.1175	0	-0.28054	-7.41244	-35.2672	-16.8101
7.75	0.1175	0	-0.28647	-7.362	-35.6379	-18.5827
7.8	0.1175	0	-0.29241	-7.31137	-36.006	-20.3738
7.85	0.1175	0	-0.29838	-7.26058	-36.3715	-22.1832
7.9	0.1175	0	-0.30437	-7.20964	-36.7346	-24.0109
7.95	0.1175	0	-0.31037	-7.15855	-37.095	-25.8566
8	0.1175	0	-0.31639	-7.10733	-37.453	-27.7203
8.05	0.1175	0	-0.32242	-7.05599	-37.8083	-29.6019
8.1	0.1175	0	-0.32847	-7.00454	-38.1611	-31.5011
8.15	0.1175	0	-0.33452	-6.95299	-38.5114	-33.4179
8.2	0.1175	0	-0.34059	-6.90136	-38.859	-35.3522
8.25	0.1175	0	-0.34667	-6.84965	-39.2041	-37.3038
8.3	0.1175	0	-0.35275	-6.79788	-39.5466	-39.2725
8.35	0.1175	0	-0.35884	-6.74605	-39.8865	-41.2583
8.4	0.1175	0	-0.36493	-6.69418	-40.2238	-43.2611
8.45	0.1175	0	-0.37103	-6.64228	-40.5585	-45.2807

8.5	0.1175	0	-0.37713	-6.59035	-40.8906	-47.3169
8.55	0.1175	0	-0.38324	-6.53841	-41.2201	-49.3697
8.6	0.1175	0	-0.38934	-6.48647	-41.547	-51.4388
8.65	0.1175	0	-0.39544	-6.43454	-41.8713	-53.5243
8.7	0.1175	0	-0.40154	-6.38262	-42.1931	-55.6259
8.75	0.1175	0	-0.40764	-6.33073	-42.5122	-57.7435
8.8	0.1175	0	-0.41373	-6.27887	-42.8287	-59.8771
8.85	0.1175	0	-0.41982	-6.22706	-43.1427	-62.0263
8.9	0.1175	0	-0.4259	-6.17531	-43.454	-64.1913
8.95	0.1175	0	-0.43198	-6.12361	-43.7628	-66.3717
9	0.1175	0	-0.43804	-6.07199	-44.069	-68.5675
9.05	0.1175	0	-0.4441	-6.02045	-44.3726	-70.7785
9.1	0.1175	0	-0.45014	-5.96899	-44.6736	-73.0047
9.15	0.1175	0	-0.45618	-5.91763	-44.9721	-75.2458
9.2	0.1175	0	-0.4622	-5.86638	-45.2679	-77.5018
9.25	0.1175	0	-0.46821	-5.81524	-45.5613	-79.7725
9.3	0.1175	0	-0.4742	-5.76422	-45.852	-82.0579
9.35	0.1175	0	-0.48018	-5.71332	-46.1402	-84.3577
9.4	0.1175	0	-0.48615	-5.66256	-46.4259	-86.6718
9.45	0.1175	0	-0.4921	-5.61194	-46.709	-89.0002
9.5	0.1175	0	-0.49803	-5.56147	-46.9896	-91.3427
9.55	0.1175	0	-0.50394	-5.51116	-47.2677	-93.6991
9.6	0.1175	0	-0.50983	-5.46101	-47.5433	-96.0694
9.65	0.1175	0	-0.5157	-5.41103	-47.8163	-98.4534
9.7	0.1175	0	-0.52156	-5.36122	-48.0869	-100.851
9.75	0.1175	0	-0.52739	-5.31159	-48.3549	-103.262
9.8	0.1175	0	-0.5332	-5.26215	-48.6205	-105.686
9.85	0.1175	0	-0.53898	-5.21291	-48.8836	-108.124
9.9	0.1175	0	-0.54475	-5.16386	-49.1442	-110.575
9.95	0.1175	0	-0.55049	-5.11502	-49.4024	-113.038
10	0.1175	0	-0.5562	-5.06639	-49.6582	-115.515
10.05	0.1175	0	-0.56189	-5.01797	-49.9115	-118.004
10.1	0.1175	0	-0.56755	-4.96977	-50.1624	-120.506
10.15	0.1175	0	-0.57319	-4.9218	-50.4109	-123.02
10.2	0.1175	0	-0.5788	-4.87405	-50.657	-125.547
10.25	0.1175	0	-0.58438	-4.82654	-50.9007	-128.086
10.3	0.1175	0	-0.58994	-4.77927	-51.142	-130.637
10.35	0.1175	0	-0.59546	-4.73224	-51.381	-133.2
10.4	0.1175	0	-0.60096	-4.68546	-51.6176	-135.775
10.45	0.1175	0	-0.60643	-4.63893	-51.8519	-138.362
10.5	0.1175	0	-0.61186	-4.59265	-52.0838	-140.96
10.55	0.1175	0	-0.61727	-4.54663	-52.3134	-143.57
10.6	0.1175	0	-0.62265	-4.50088	-52.5408	-146.191
10.65	0.1175	0	-0.62799	-4.45539	-52.7658	-148.824
10.7	0.1175	0	-0.63331	-4.41016	-52.9886	-151.468
10.75	0.1175	0	-0.63859	-4.36521	-53.2091	-154.123
10.8	0.1175	0	-0.64384	-4.32053	-53.4274	-156.789
10.85	0.1175	0	-0.64905	-4.27613	-53.6434	-159.466
10.9	0.1175	0	-0.65424	-4.23201	-53.8572	-162.153
10.95	0.1175	0	-0.65939	-4.18817	-54.0688	-164.851
11	0.1175	0	-0.66451	-4.14462	-54.2782	-167.56
11.05	0.1175	0	-0.66959	-4.10135	-54.4854	-170.279
11.1	0.1175	0	-0.67464	-4.05838	-54.6905	-173.008
11.15	0.1175	0	-0.67966	-4.01569	-54.8934	-175.748
11.2	0.1175	0	-0.68464	-3.9733	-55.0942	-178.498

改造型MINIDIGI搭載モデルロケット

機体質量[kg] 0.13 dt[s] 0.05  
 使用エンジン B6-4 打上平均質量[kg] 0.1175  
 エンジン初期質量[kg] 0.0191 断面積[m<sup>2</sup>] 0.000491  
 推進薬質量[kg]  
 抗力係数 0.75 空気密度[kg/m<sup>3</sup>] 1.225  
 直径[m] 0.025

時間[s]	質量[kg]	推力[N]	抗力[N]	加速度[m/	速度[m/s]	高度[m]
0	0.1175	0	0	0	0	0
0.05	0.1175	1.973	0	6.991489	0	0
0.1	0.1175	5.92	2.76E-05	40.58274	0.349574	0.008739
0.15	0.1175	10.06	0.001276	75.80616	2.378712	0.076947
0.2	0.1175	11.64	0.008584	89.19078	6.16902	0.29064
0.25	0.1175	6.709	0.02548	47.08102	10.62856	0.710579
0.3	0.1175	5.526	0.038017	36.90624	12.98261	1.300858
0.35	0.1175	4.934	0.049592	31.76943	14.82792	1.996122
0.4	0.1175	4.736	0.060786	29.98905	16.41639	2.77723
0.45	0.1175	4.539	0.072397	28.21364	17.91585	3.635536
0.5	0.1175	4.539	0.084247	28.11279	19.32653	4.566595
0.55	0.1175	4.539	0.096948	28.0047	20.73217	5.568062
0.6	0.1175	4.342	0.110486	26.21289	22.1324	6.639677
0.65	0.1175	4.342	0.123959	26.09822	23.44305	7.779063
0.7	0.1175	4.342	0.138143	25.97751	24.74796	8.983838
0.75	0.1175	4.342	0.153024	25.85086	26.04683	10.25371
0.8	0.1175	3.947	0.168588	22.3567	27.33938	11.58836
0.85	0.1175	4.144	0.182656	23.91357	28.45721	12.98328
0.9	0.1175	0	0.198327	-11.4879	29.65289	14.43603
0.95	0.1175	0	0.190718	-11.4231	29.0785	15.90431
1	0.1175	0	0.1833	-11.36	28.50734	17.34396
1.05	0.1175	0	0.176068	-11.2985	27.93934	18.75513
1.1	0.1175	0	0.16902	-11.2385	27.37442	20.13797
1.15	0.1175	0	0.162152	-11.18	26.81249	21.49264
1.2	0.1175	0	0.155462	-11.1231	26.25349	22.81929
1.25	0.1175	0	0.148945	-11.0676	25.69734	24.11806
1.3	0.1175	0	0.142599	-11.0136	25.14396	25.3891
1.35	0.1175	0	0.136421	-10.961	24.59328	26.63253
1.4	0.1175	0	0.130409	-10.9099	24.04522	27.84849
1.45	0.1175	0	0.124559	-10.8601	23.49973	29.03711
1.5	0.1175	0	0.118869	-10.8117	22.95673	30.19853
1.55	0.1175	0	0.113337	-10.7646	22.41615	31.33285
1.6	0.1175	0	0.107959	-10.7188	21.87792	32.4402
1.65	0.1175	0	0.102735	-10.6743	21.34198	33.5207
1.7	0.1175	0	0.097661	-10.6312	20.80826	34.57445
1.75	0.1175	0	0.092735	-10.5892	20.2767	35.60158
1.8	0.1175	0	0.087955	-10.5486	19.74724	36.60217
1.85	0.1175	0	0.08332	-10.5091	19.21981	37.57635
1.9	0.1175	0	0.078826	-10.4709	18.69436	38.52421
1.95	0.1175	0	0.074473	-10.4338	18.17081	39.44583
2	0.1175	0	0.070258	-10.3979	17.64912	40.34133
2.05	0.1175	0	0.06618	-10.3632	17.12923	41.21079
2.1	0.1175	0	0.062236	-10.3297	16.61107	42.0543
2.15	0.1175	0	0.058426	-10.2972	16.09458	42.87194
2.2	0.1175	0	0.054748	-10.2659	15.57972	43.6638
2.25	0.1175	0	0.0512	-10.2357	15.06642	44.42995
2.3	0.1175	0	0.047781	-10.2066	14.55464	45.17048
2.35	0.1175	0	0.044489	-10.1786	14.0443	45.88545
2.4	0.1175	0	0.041323	-10.1517	13.53537	46.57494
2.45	0.1175	0	0.038282	-10.1258	13.02779	47.23902
2.5	0.1175	0	0.035364	-10.101	12.5215	47.87775
2.55	0.1175	0	0.032569	-10.0772	12.01645	48.4912
2.6	0.1175	0	0.029895	-10.0544	11.51259	49.07943

2.65	0.1175	0	0.027341	-10.0327	11.00987	49.64249
2.7	0.1175	0	0.024906	-10.012	10.50823	50.18044
2.75	0.1175	0	0.02259	-9.99225	10.00764	50.69334
2.8	0.1175	0	0.020391	-9.97354	9.508023	51.18123
2.85	0.1175	0	0.018308	-9.95581	9.009347	51.64417
2.9	0.1175	0	0.016341	-9.93907	8.511556	52.08219
2.95	0.1175	0	0.014488	-9.9233	8.014603	52.49534
3	0.1175	0	0.01275	-9.90851	7.518437	52.88367
3.05	0.1175	0	0.011125	-9.89468	7.023012	53.2472
3.1	0.1175	0	0.009613	-9.88181	6.528278	53.58599
3.15	0.1175	0	0.008213	-9.8699	6.034187	53.90005
3.2	0.1175	0	0.006924	-9.85893	5.540693	54.18942
3.25	0.1175	0	0.005747	-9.84891	5.047746	54.45413
3.3	0.1175	0	0.00468	-9.83983	4.555301	54.69421
3.35	0.1175	0	0.003724	-9.83169	4.063309	54.90967
3.4	0.1175	0	0.002877	-9.82449	3.571724	55.10055
3.45	0.1175	0	0.00214	-9.81822	3.0805	55.26685
3.5	0.1175	0	0.001513	-9.81287	2.589589	55.40861
3.55	0.1175	0	0.000994	-9.80846	2.098945	55.52582
3.6	0.1175	0	0.000584	-9.80497	1.608523	55.61851
3.65	0.1175	0	0.000282	-9.8024	1.118274	55.68668
3.7	0.1175	0	8.9E-05	-9.80076	0.628154	55.73034
3.75	0.1175	0	4.3E-06	-9.80004	0.138116	55.74949
3.8	0.1175	0	-2.8E-05	-9.79976	-0.35189	55.74415
3.85	0.1175	0	-0.00016	-9.79864	-0.84187	55.71431
3.9	0.1175	0	-0.0004	-9.7966	-1.33181	55.65996
3.95	0.1175	0	-0.00075	-9.79363	-1.82164	55.58113
4	0.1175	0	-0.0012	-9.78975	-2.31132	55.4778