

# regressionClustering-Angel

July 27, 2019

## 0.1 Dataset

	Depth-0.00	Oxygen-mg/l	PAR/Irradiance-Biospherical/Licor	Salinity-PSU	\
0	4.471	6.79199		204.14	36.2642
1	4.403	6.79207		201.36	36.2639
2	4.416	6.79218		197.33	36.2651
3	4.531	6.79219		193.07	36.2665
4	4.669	6.79209		190.58	36.2687

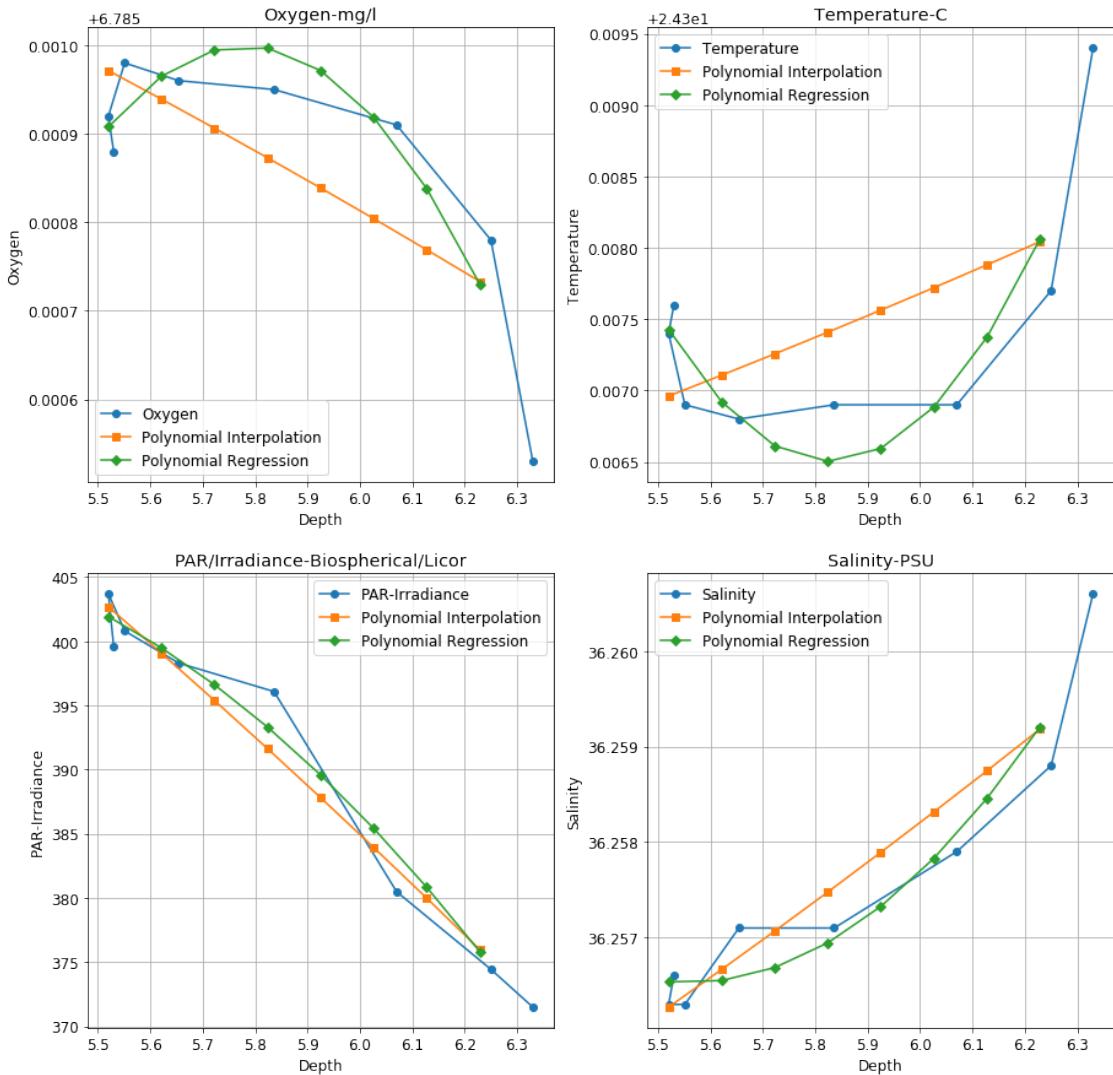
	Temperature-C	Fluorescence-mg/m^3	0.000e+00-0.000e+00	timeFreq	\
0	24.2528	0.8522		0.0	177.50
1	24.2523	0.8849		0.0	177.75
2	24.2509	0.8686		0.0	178.00
3	24.2504	0.8114		0.0	178.25
4	24.2505	0.7135		0.0	178.50

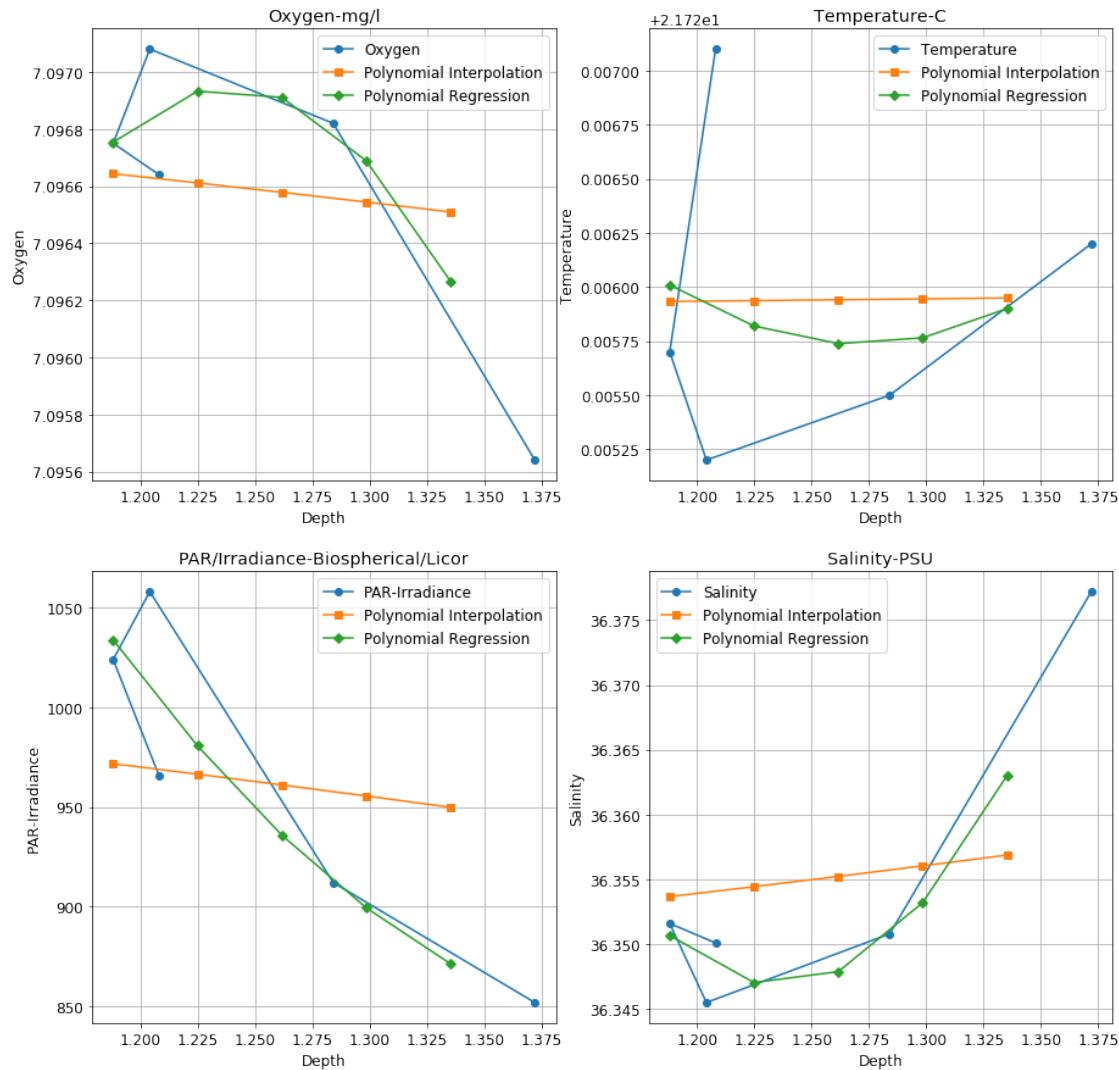
	timeToDepth	DATE	TIME	folder	fileName
0	0 days 14:16:09.500000000	Feb/05/2015	14:13	K79	K79_231
1	0 days 14:16:09.750000000	Feb/05/2015	14:13	K79	K79_231
2	0 days 14:16:10.000000000	Feb/05/2015	14:13	K79	K79_231
3	0 days 14:16:10.250000000	Feb/05/2015	14:13	K79	K79_231
4	0 days 14:16:10.500000000	Feb/05/2015	14:13	K79	K79_231

## 0.2 Graph and coefficients

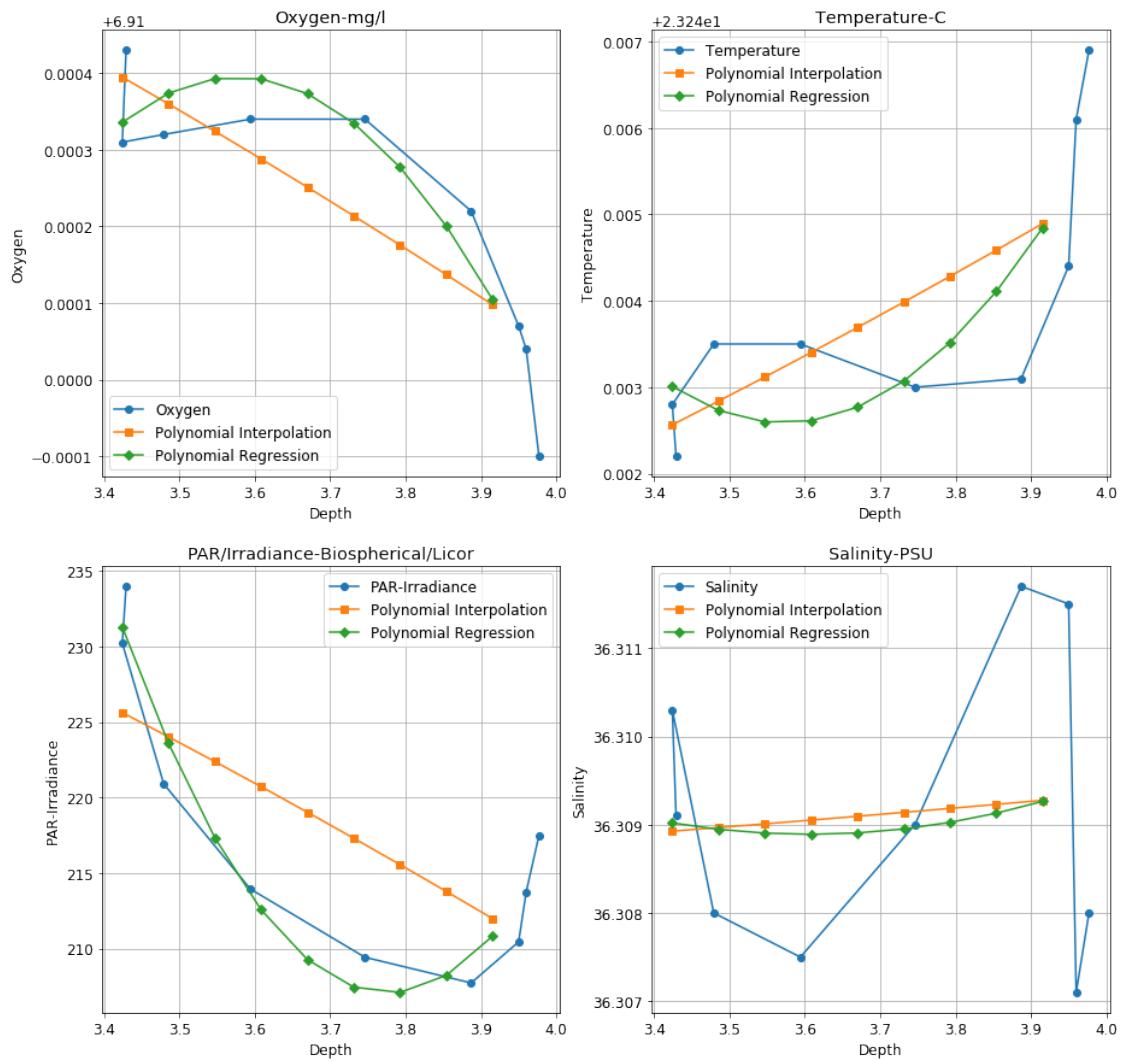
Profile K79\_200



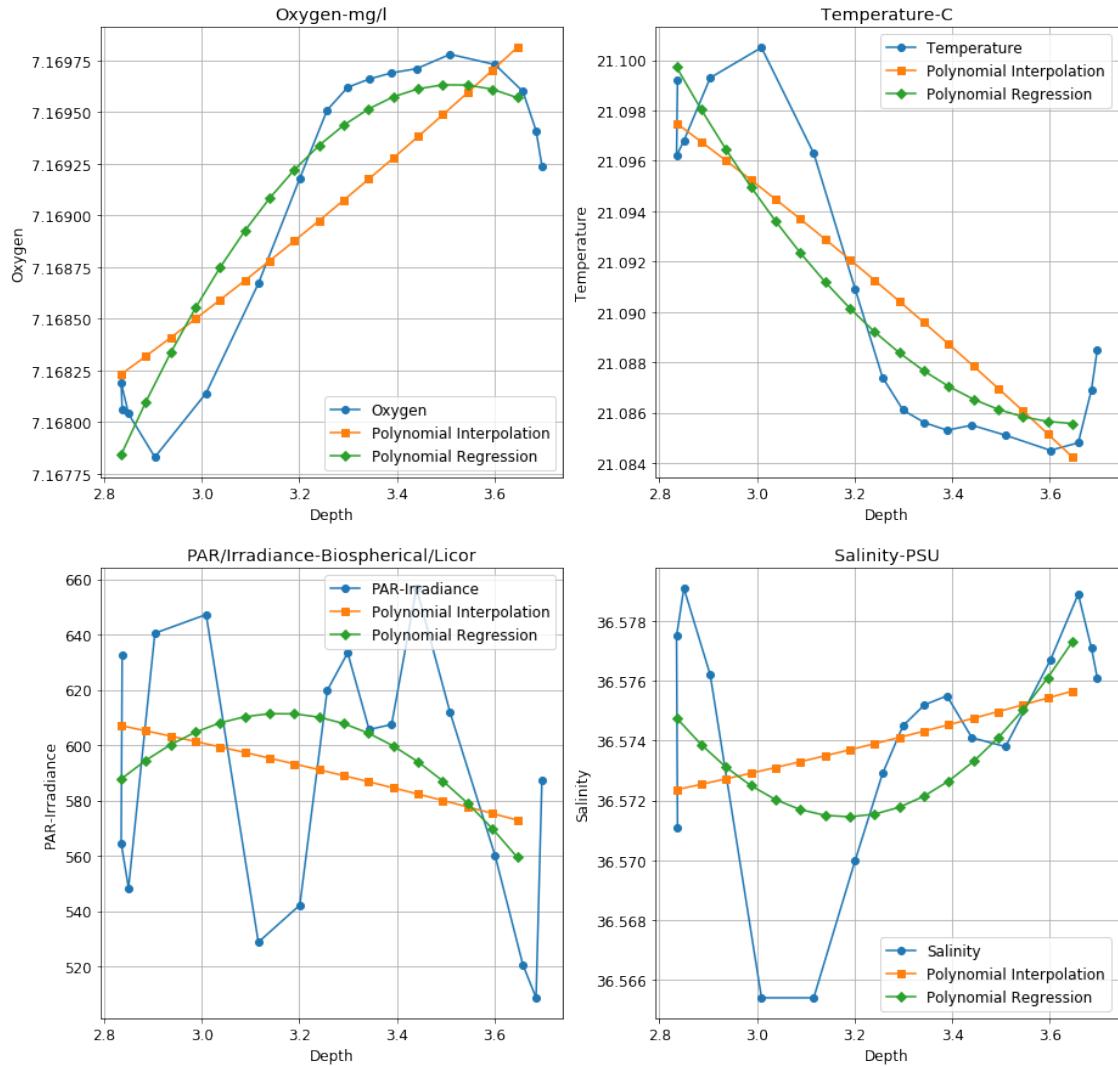
## Profile K79\_201



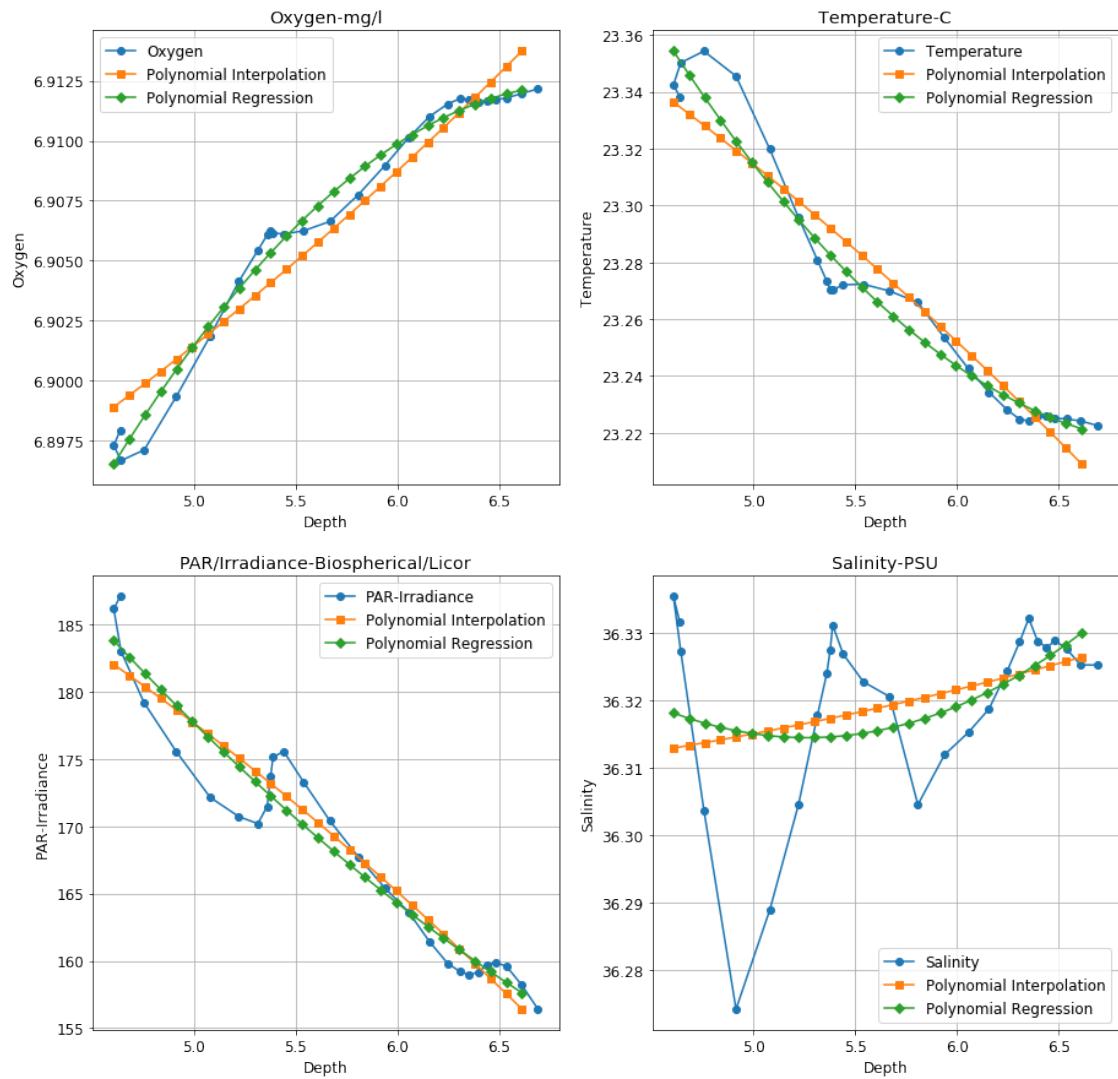
## Profile K79\_203



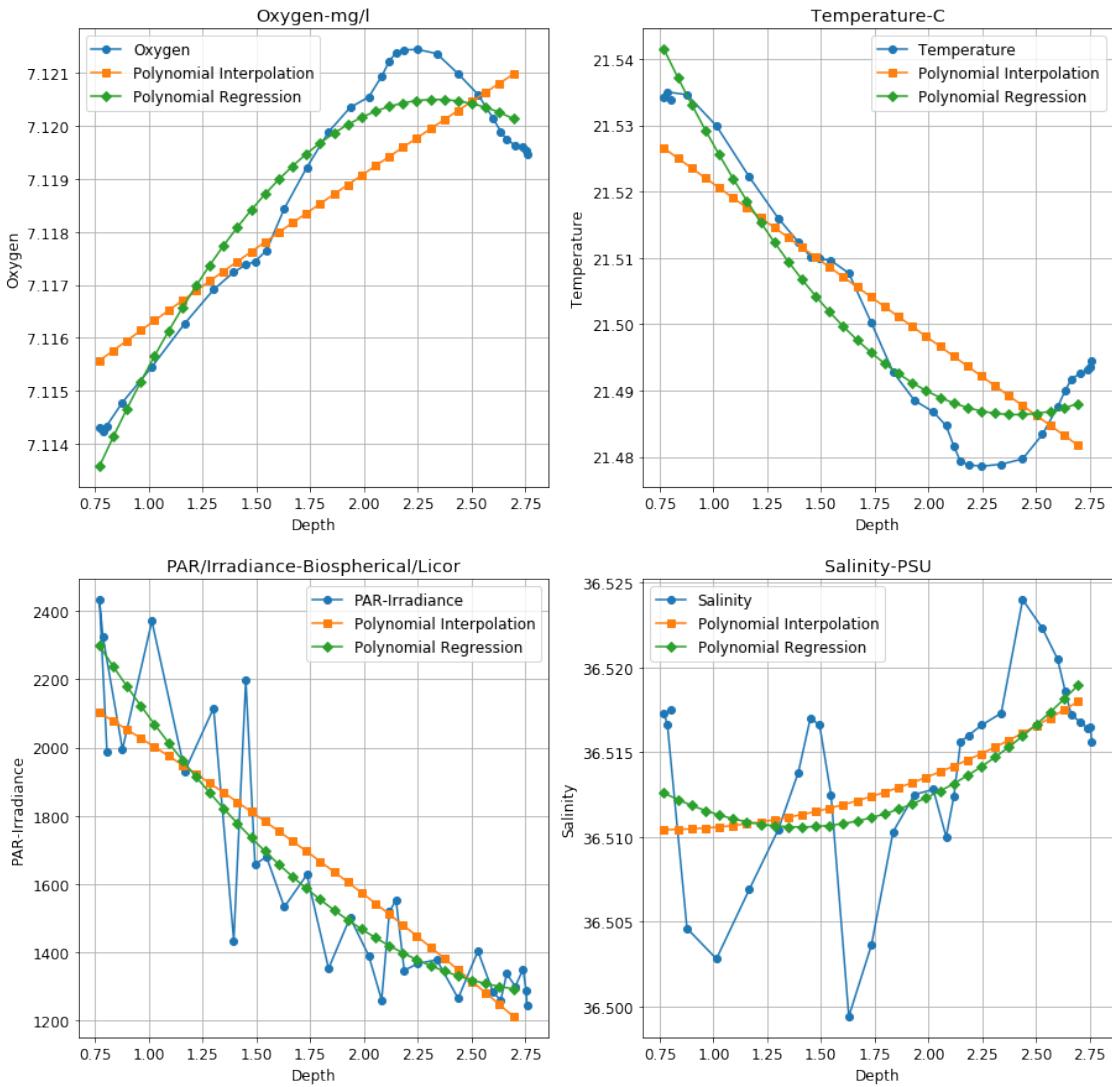
## Profile K79\_204



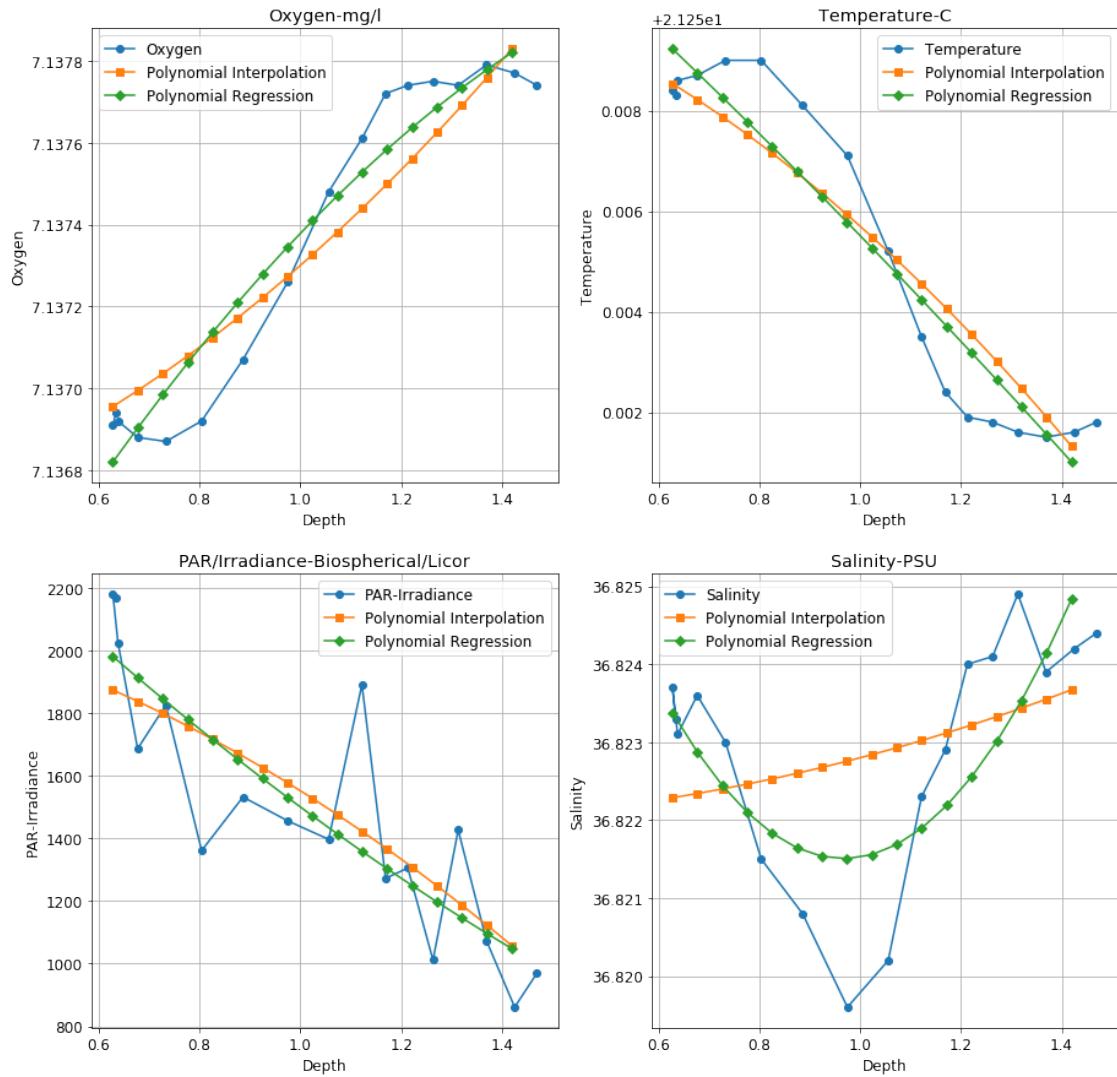
## Profile K79\_206



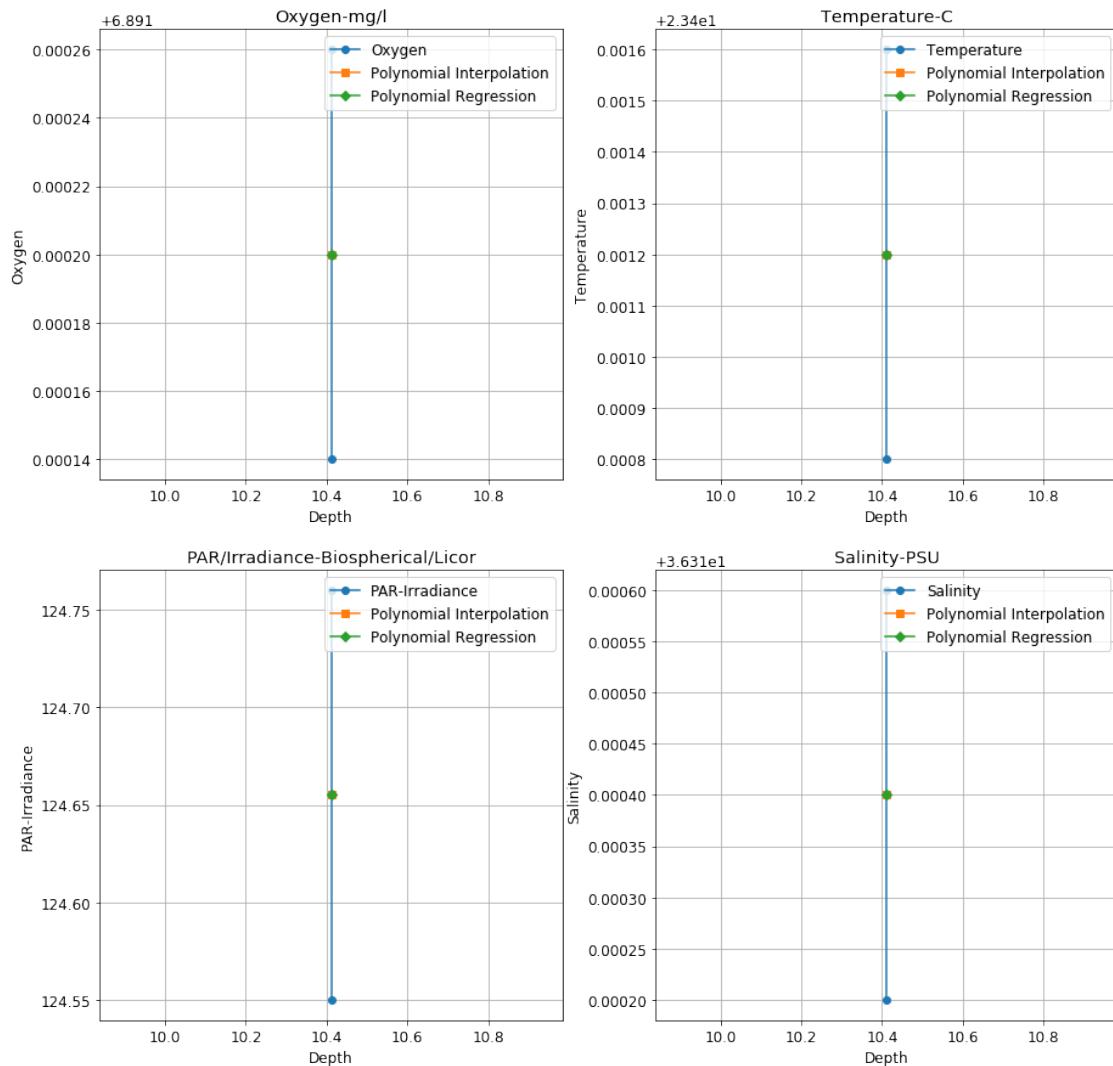
## Profile K79\_207



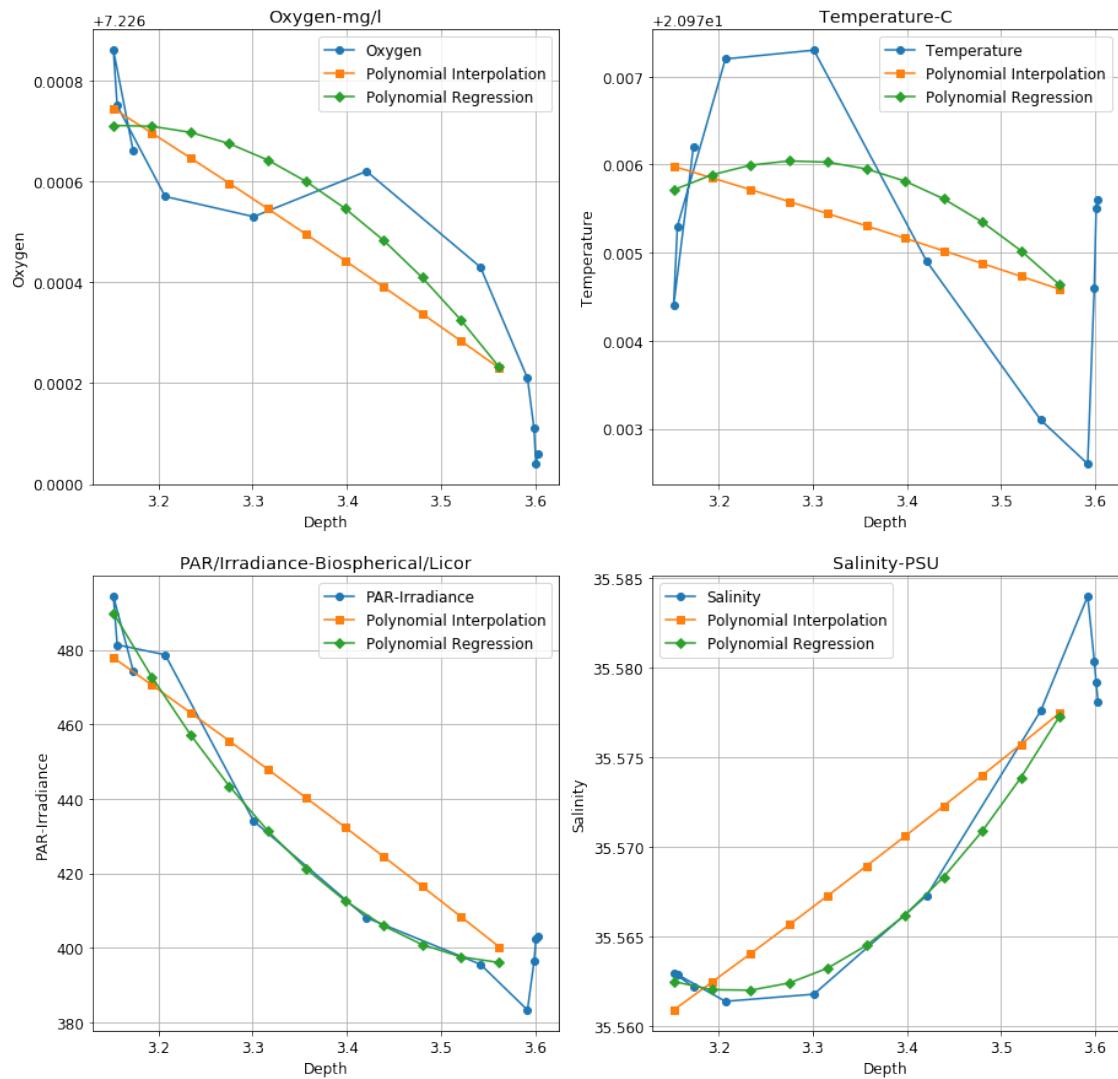
## Profile K79\_209



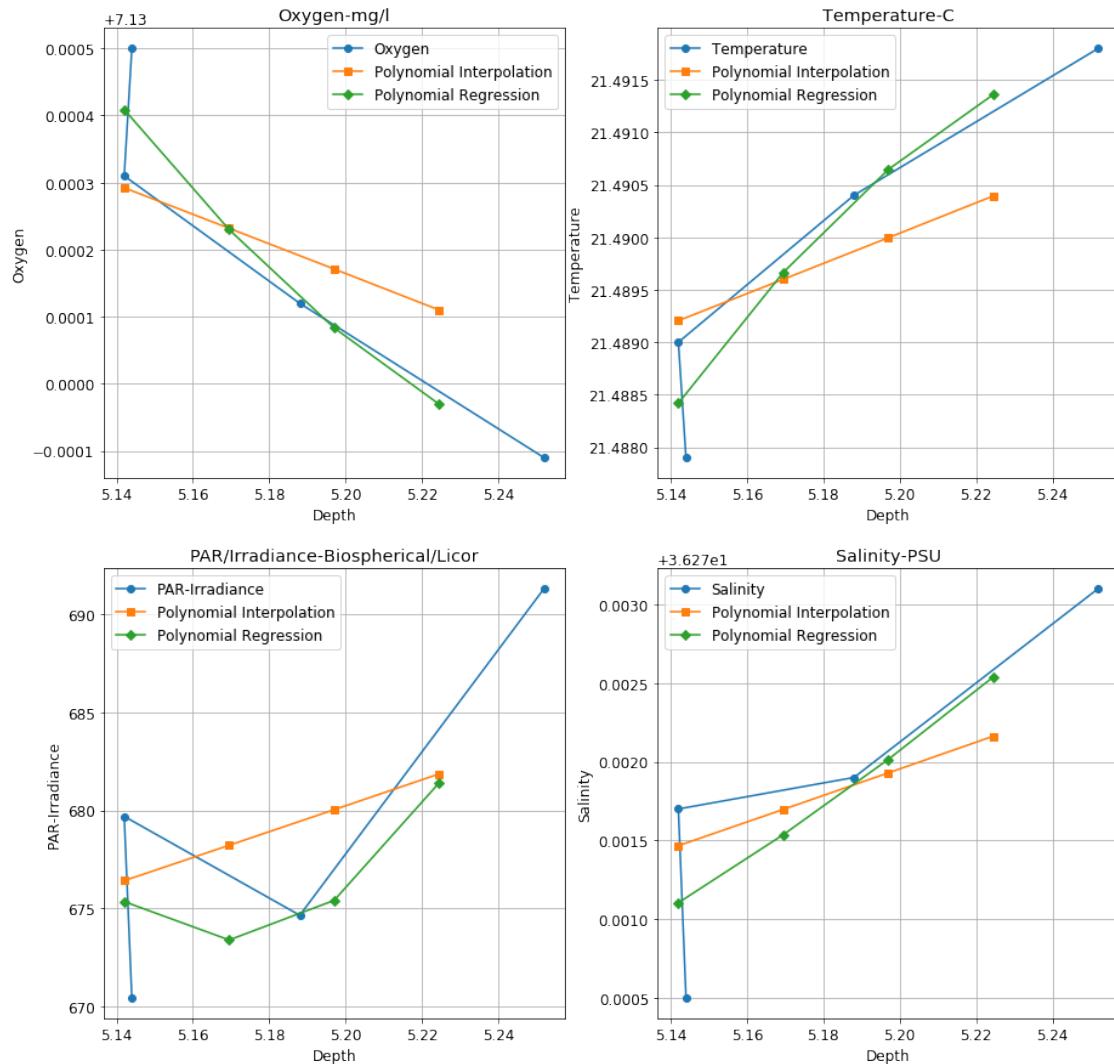
## Profile K79\_210



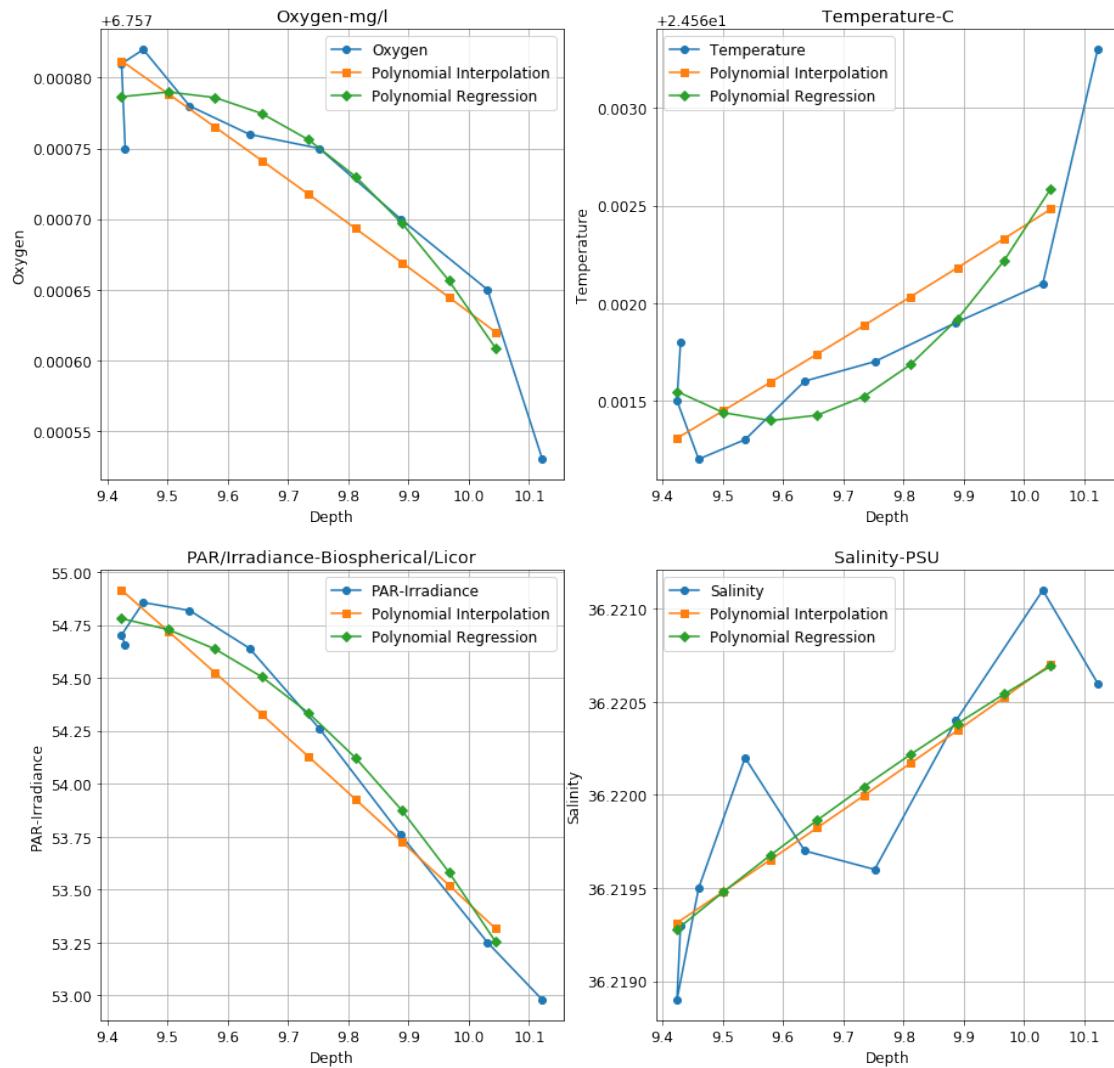
## Profile K79\_211



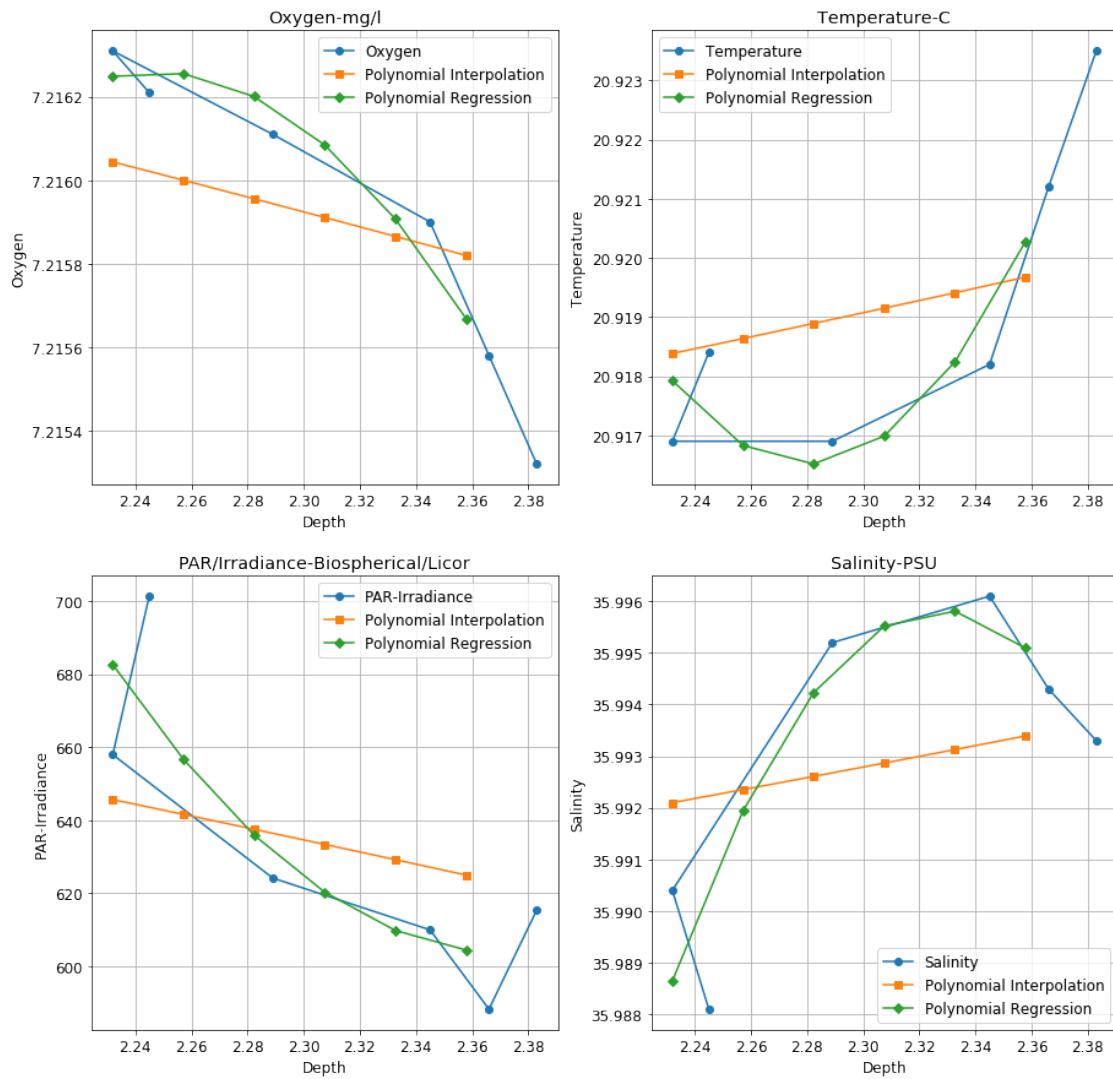
## Profile K79\_212



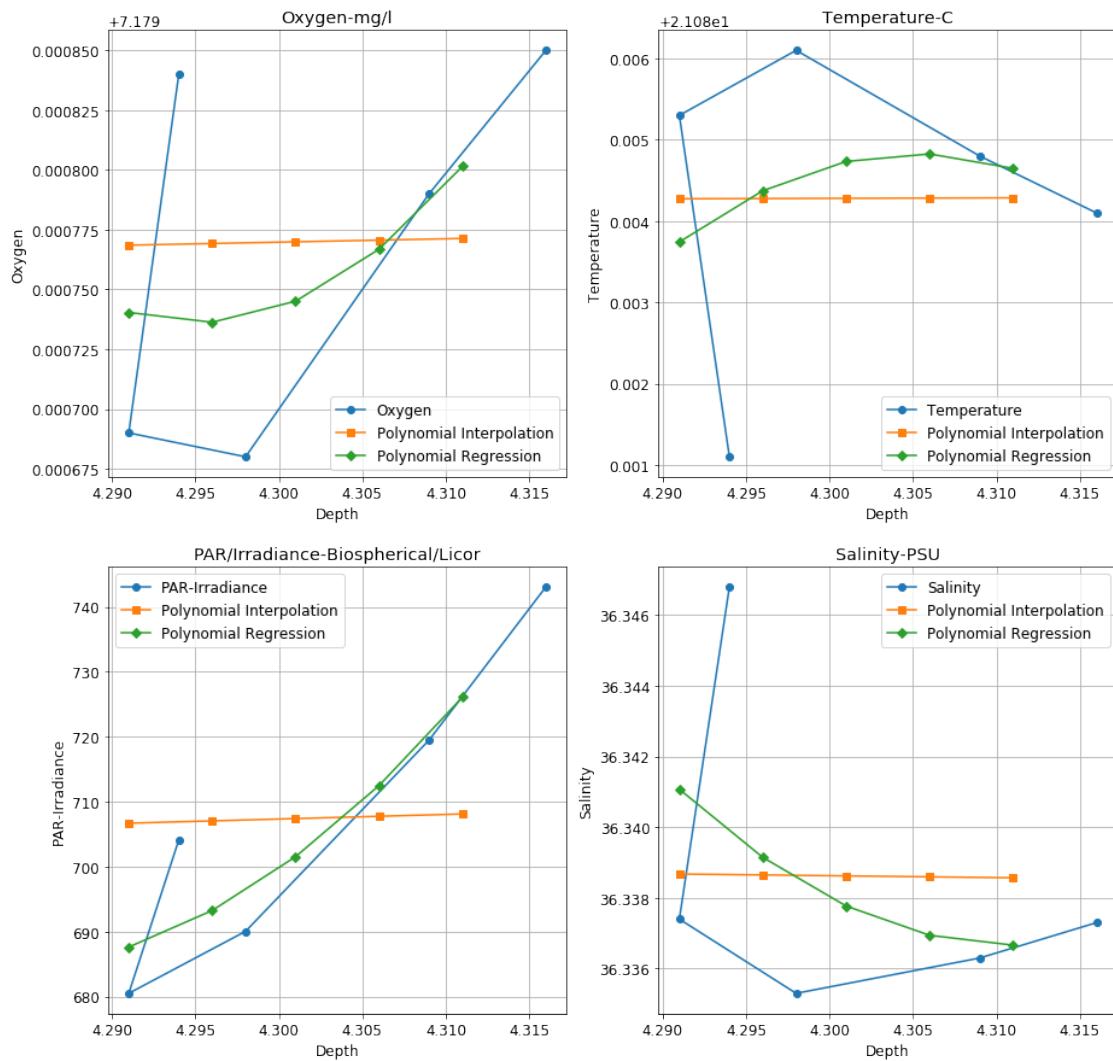
## Profile K79\_213



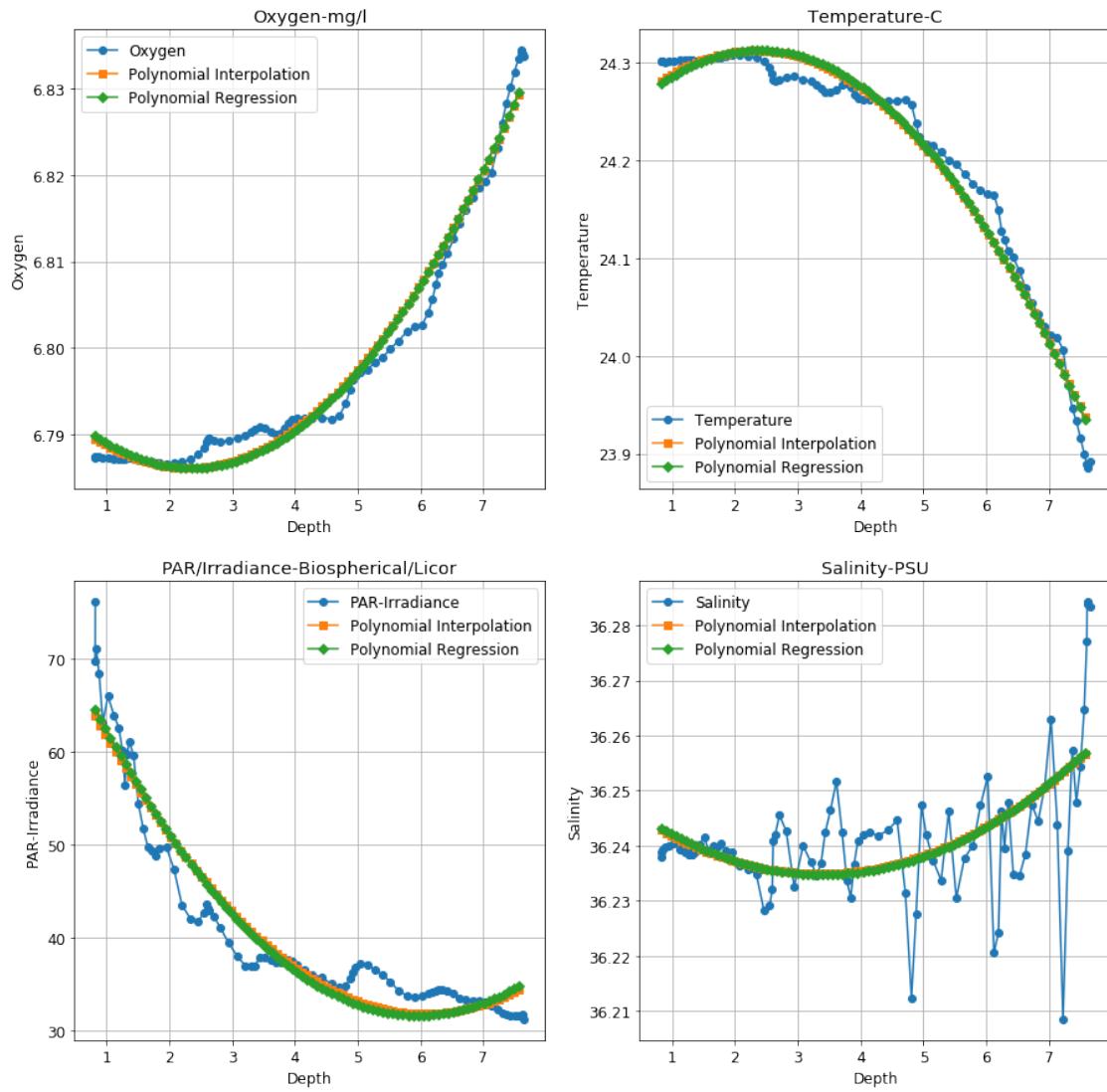
## Profile K79\_214



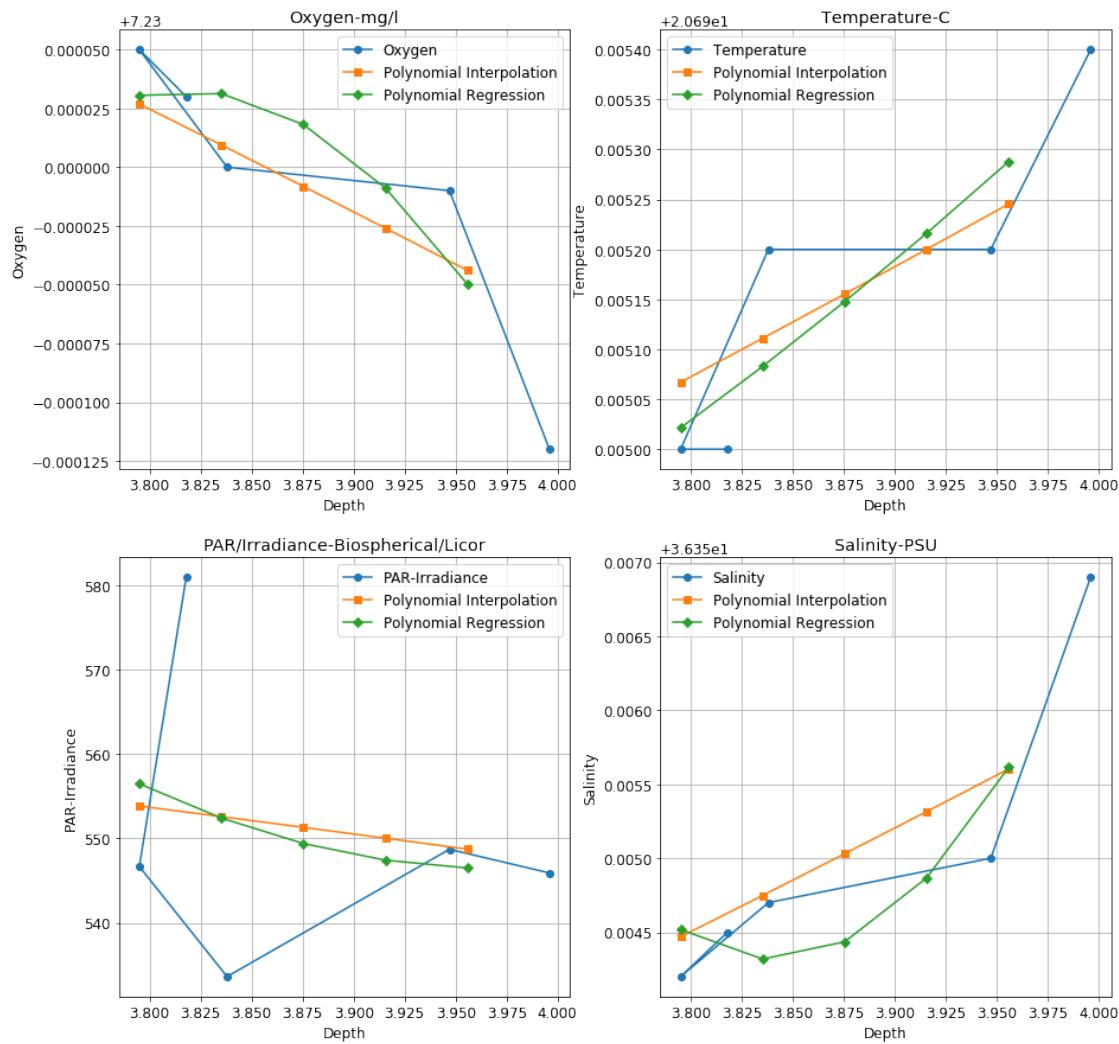
## Profile K79\_215



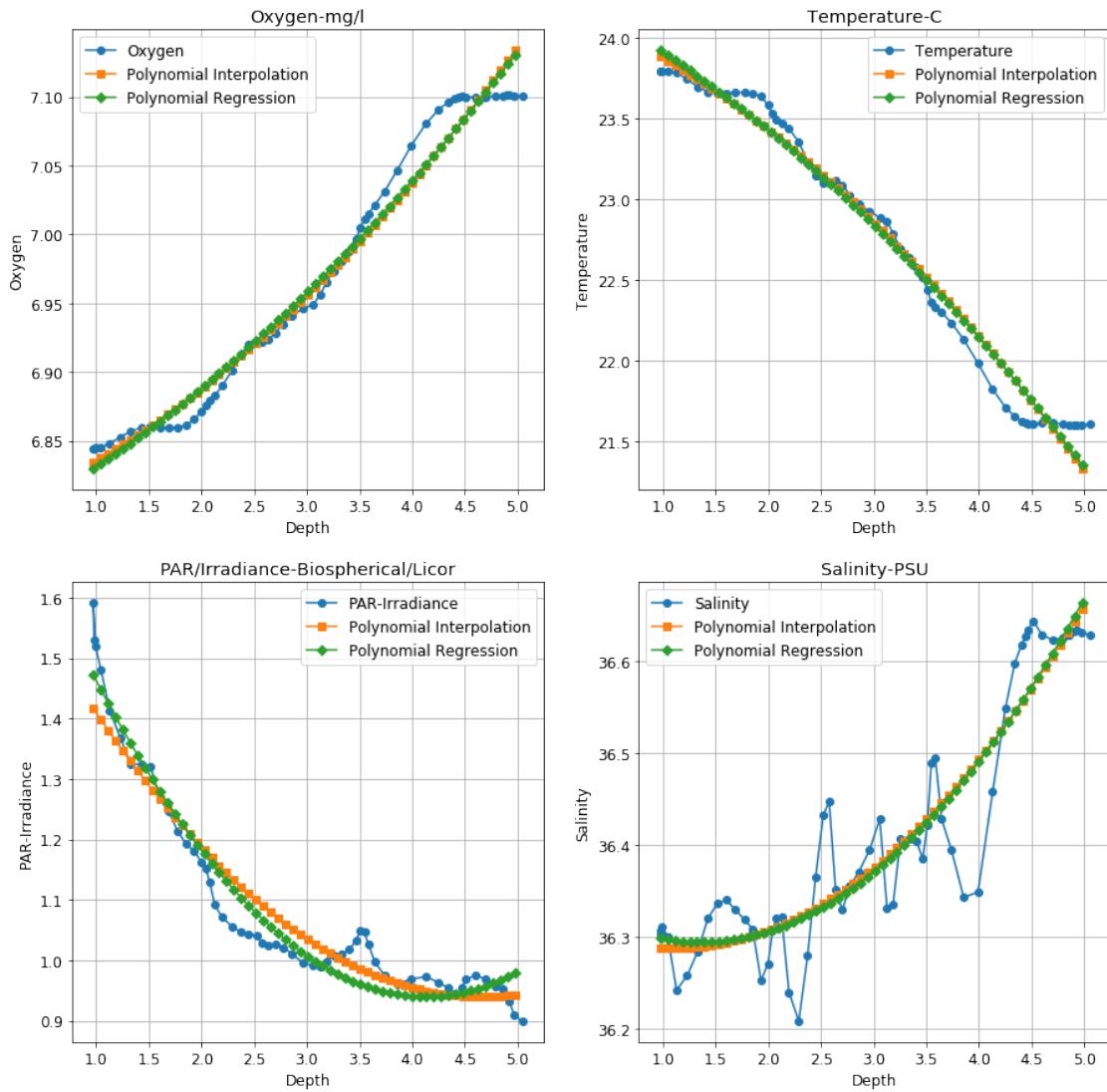
## Profile K79\_216



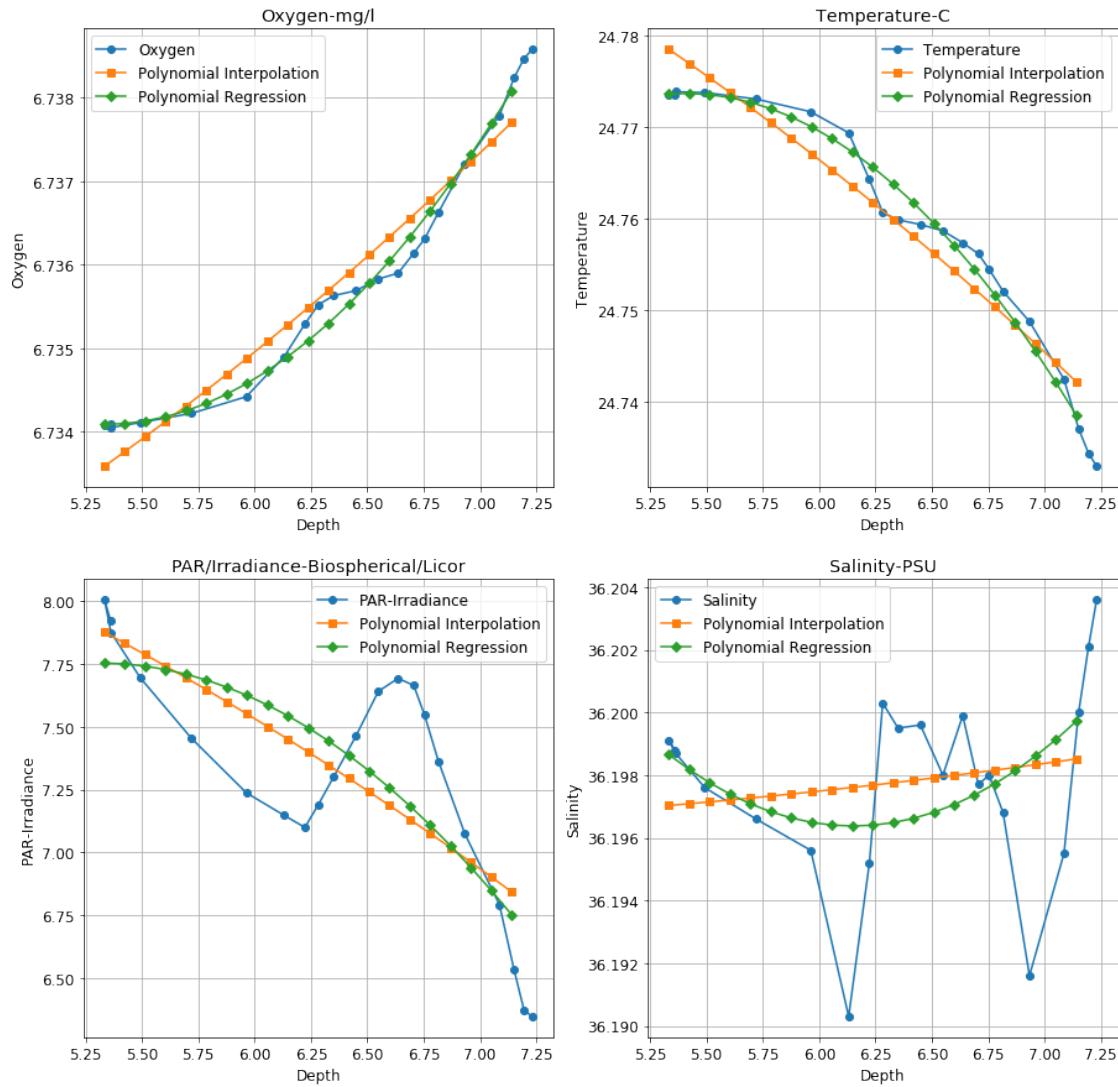
## Profile K79\_217



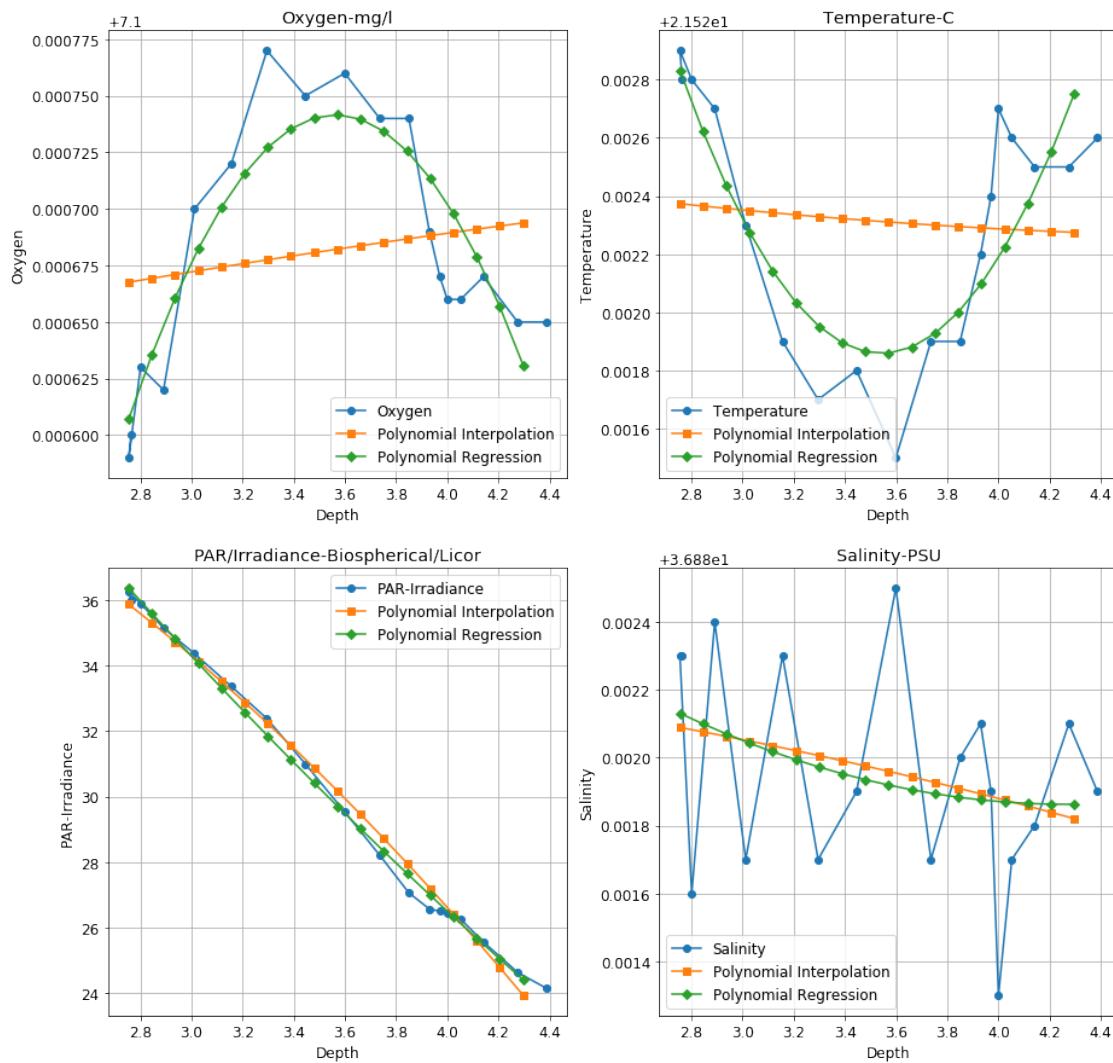
## Profile K79\_218



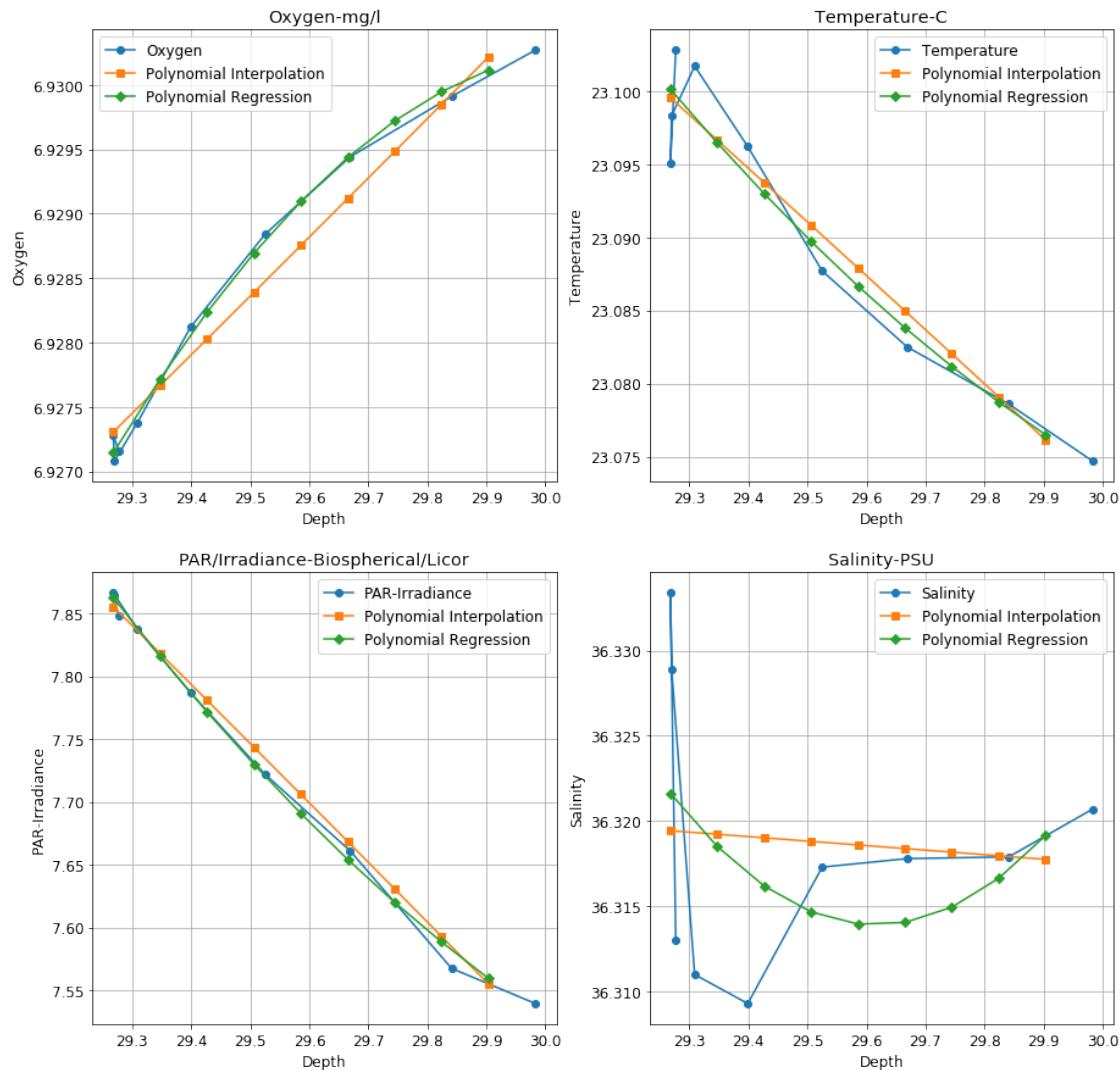
## Profile K79\_219



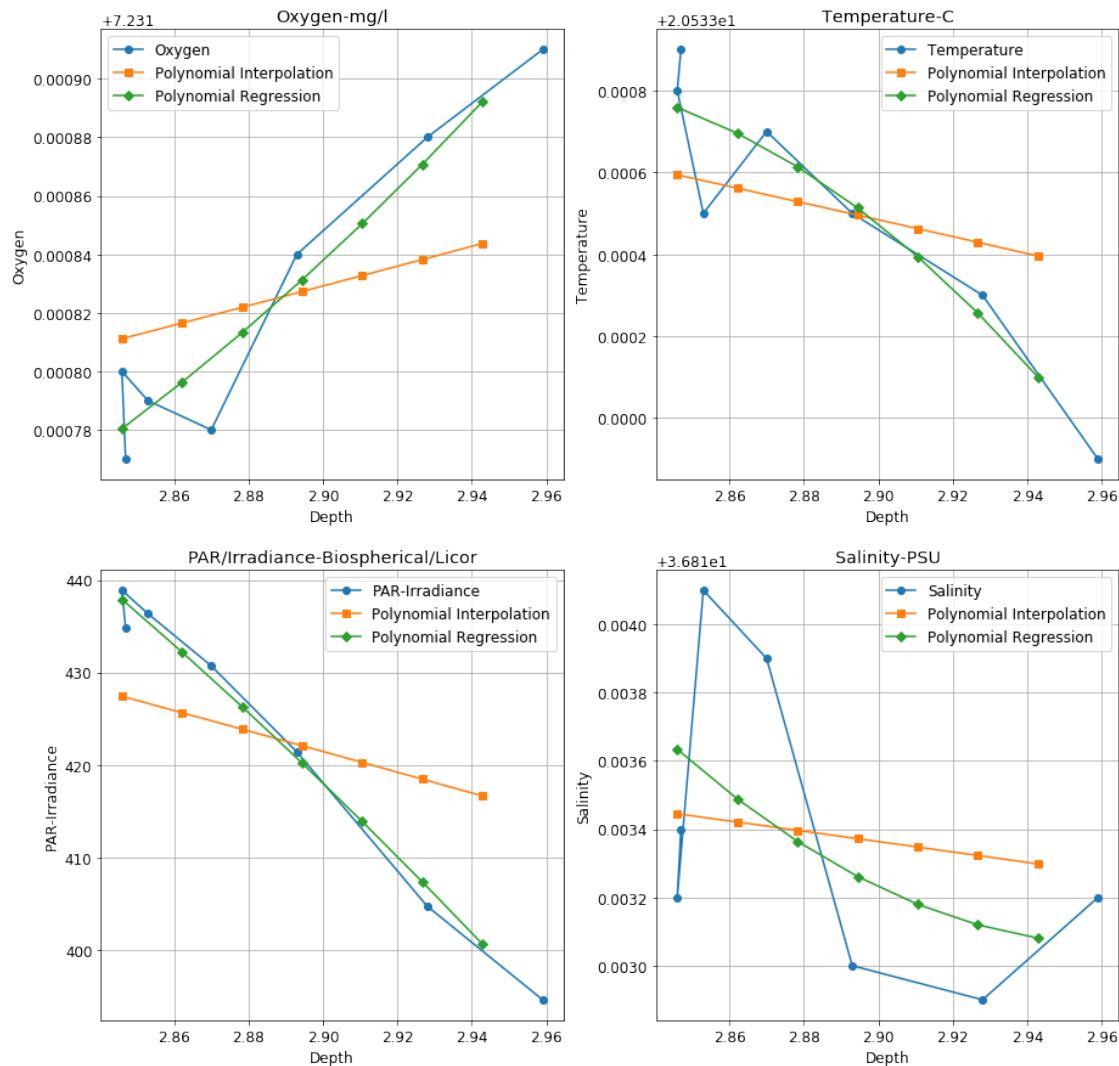
## Profile K79\_220



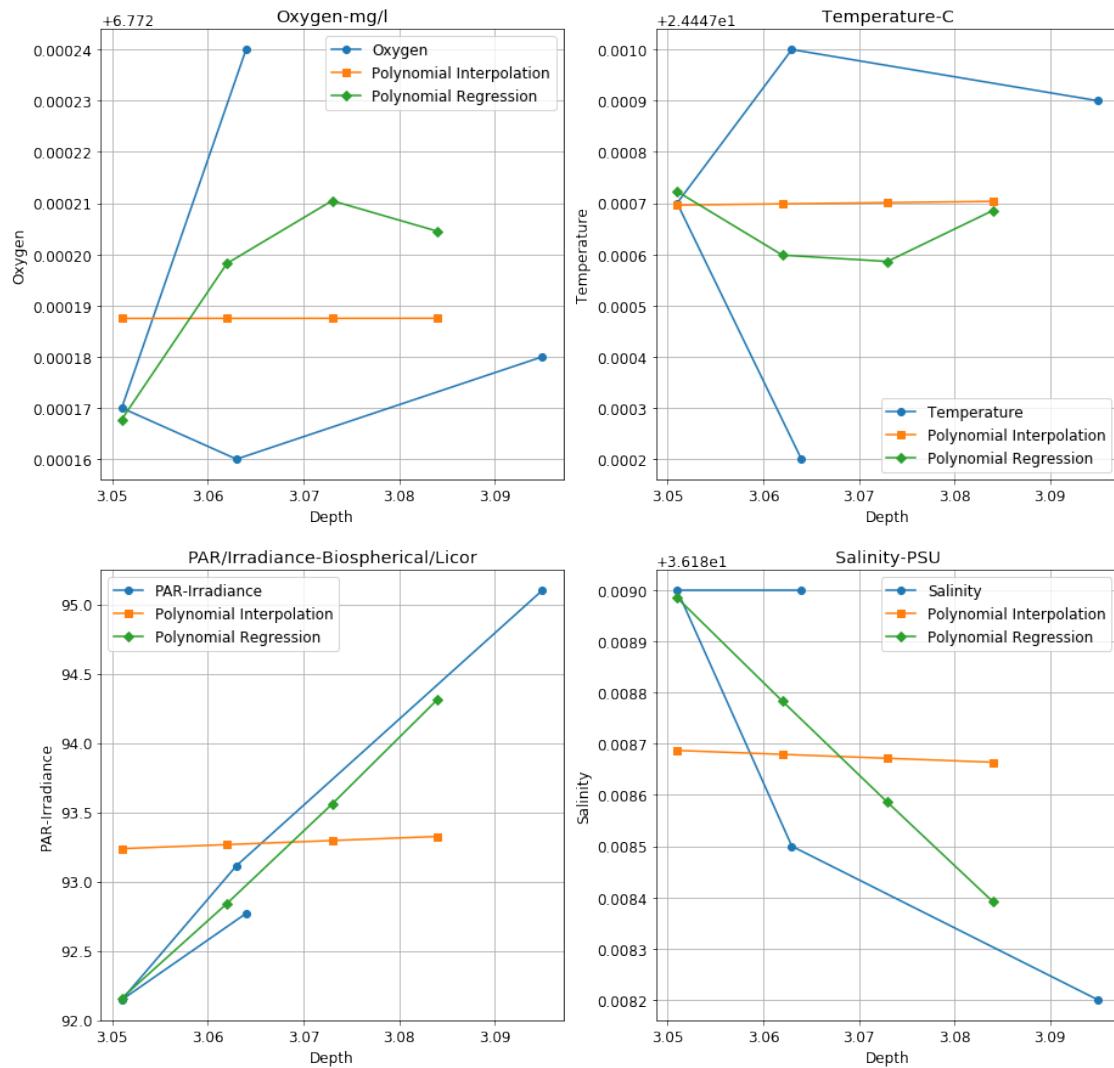
## Profile K79\_222



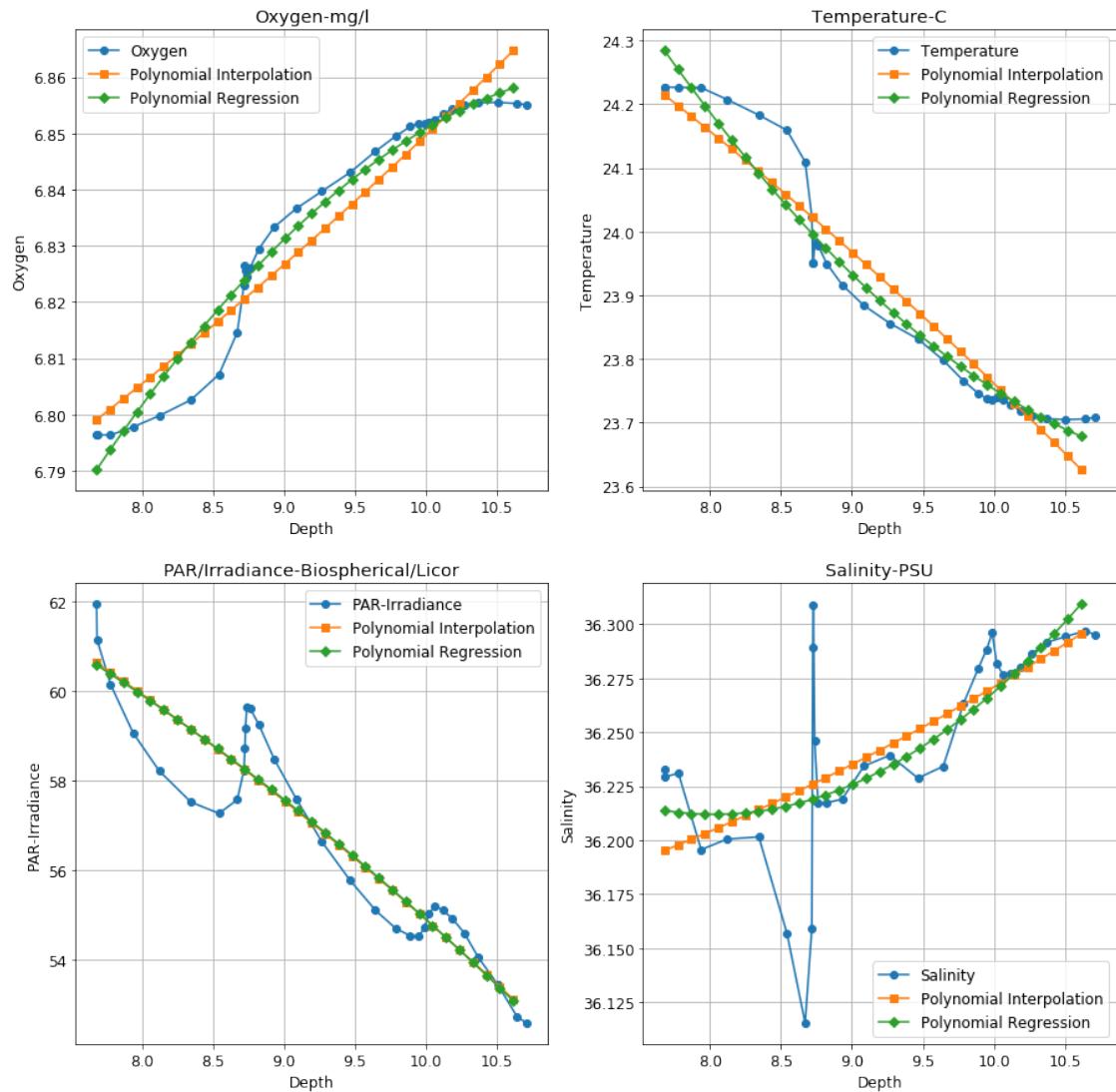
## Profile K79\_223



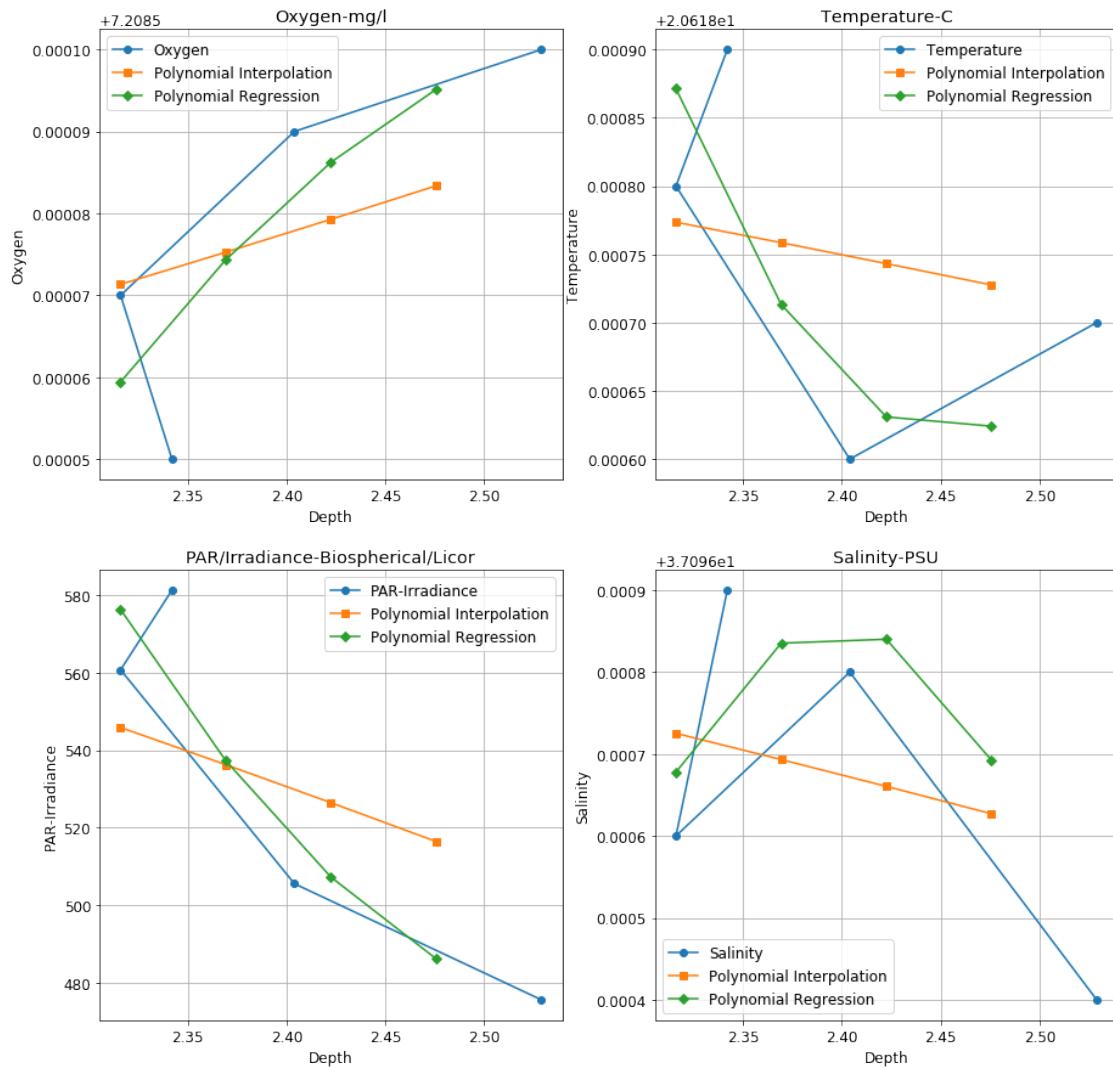
## Profile K79\_224



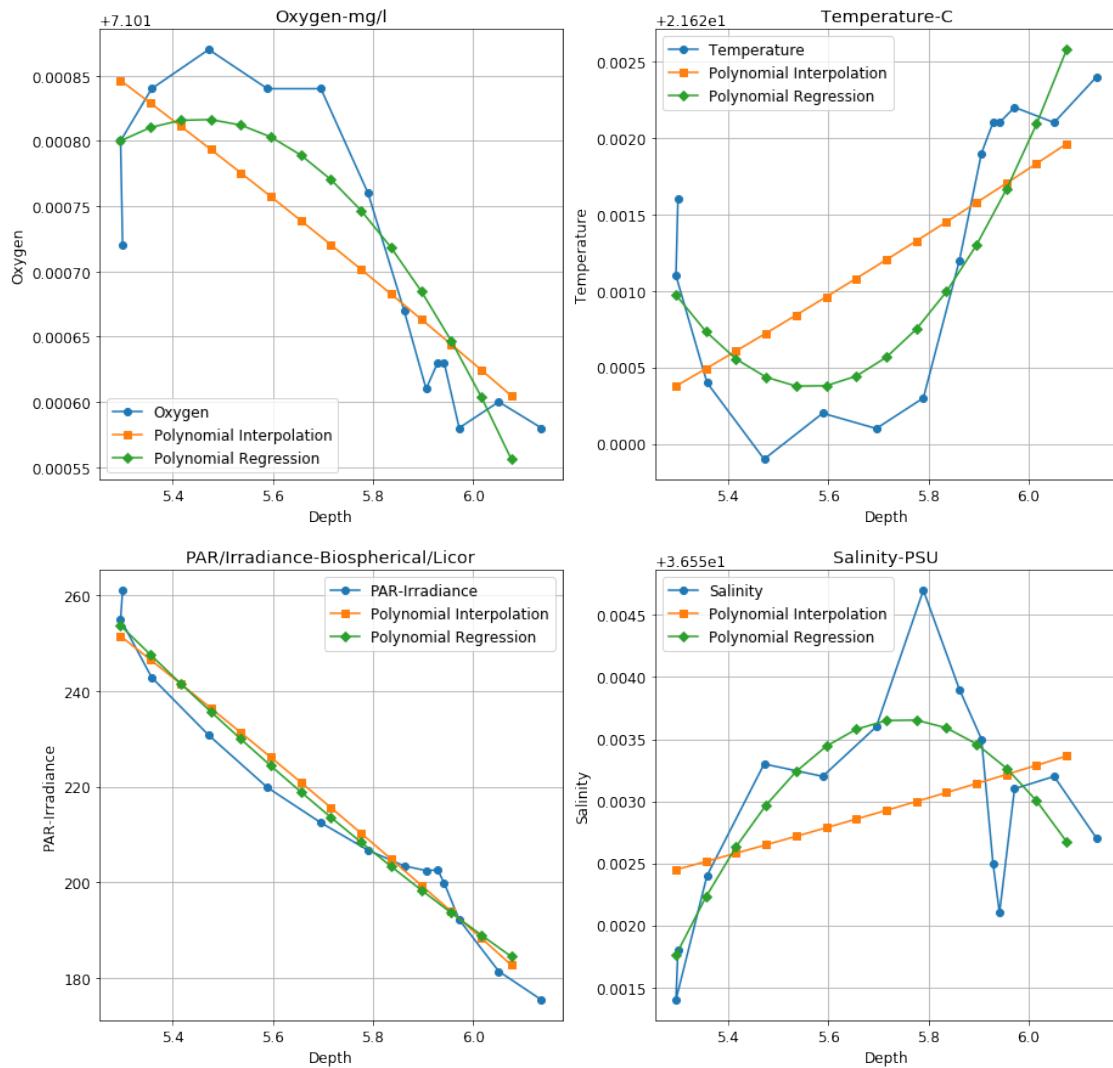
## Profile K79\_225



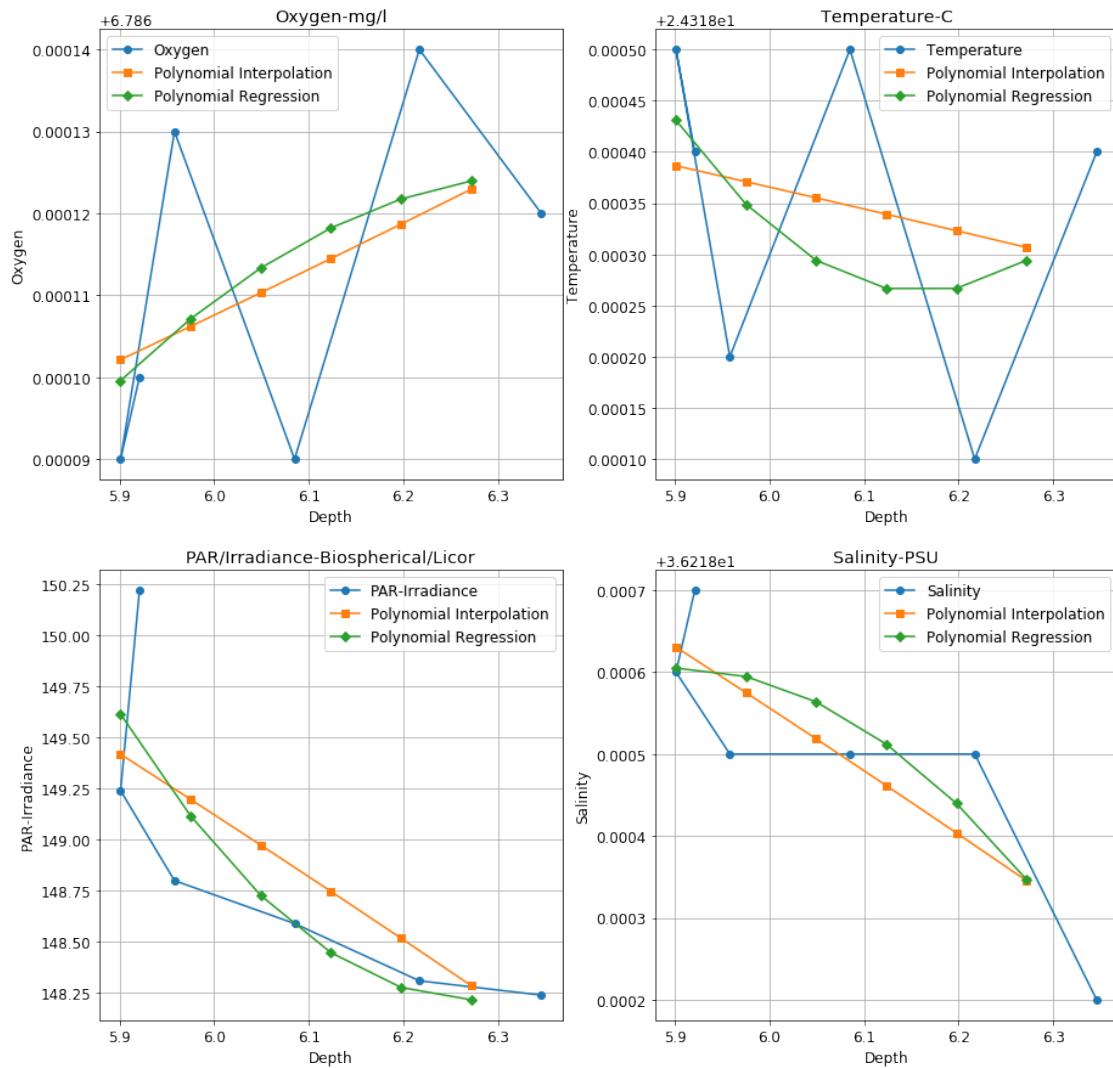
## Profile K79\_226



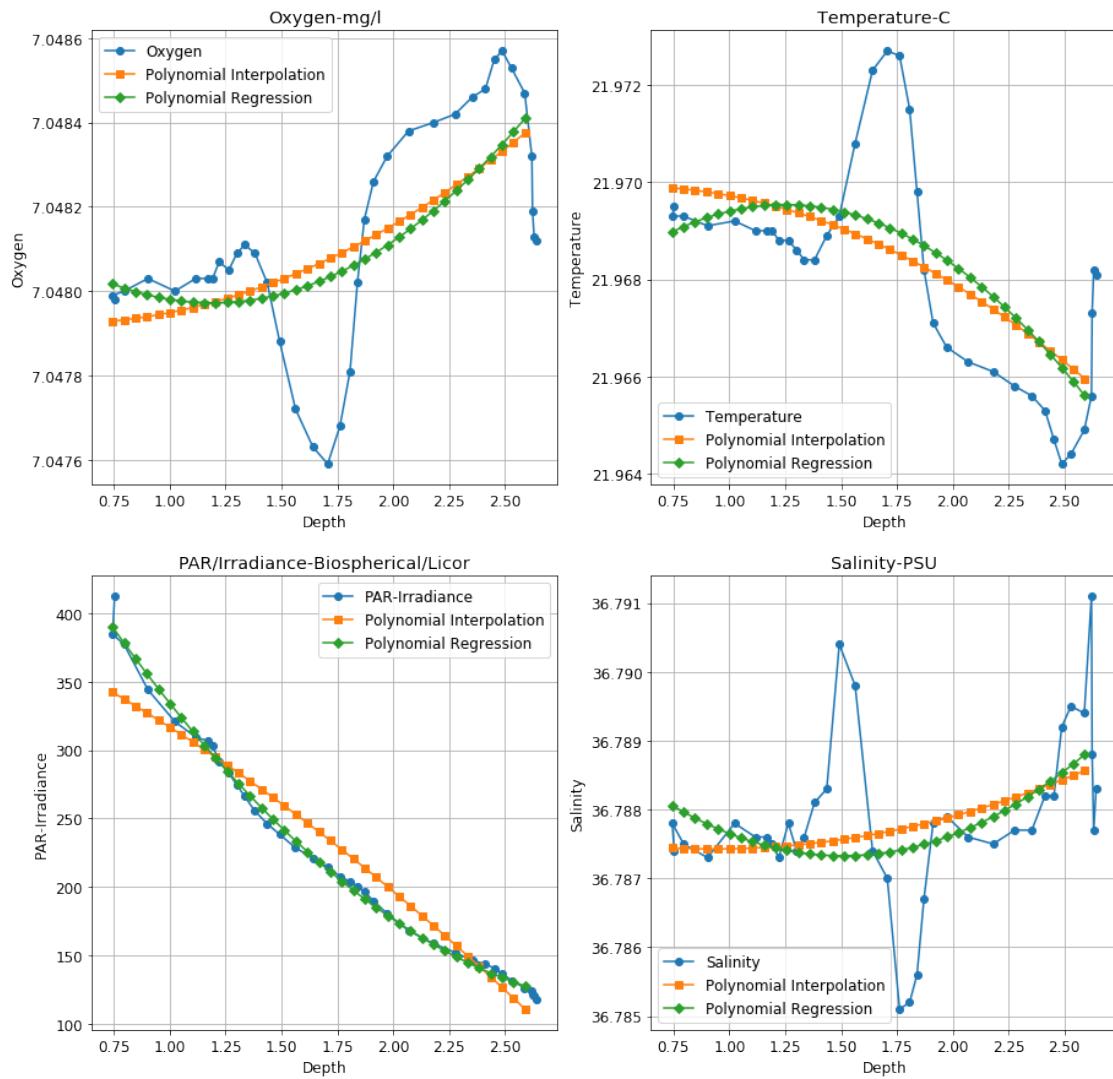
## Profile K79\_227



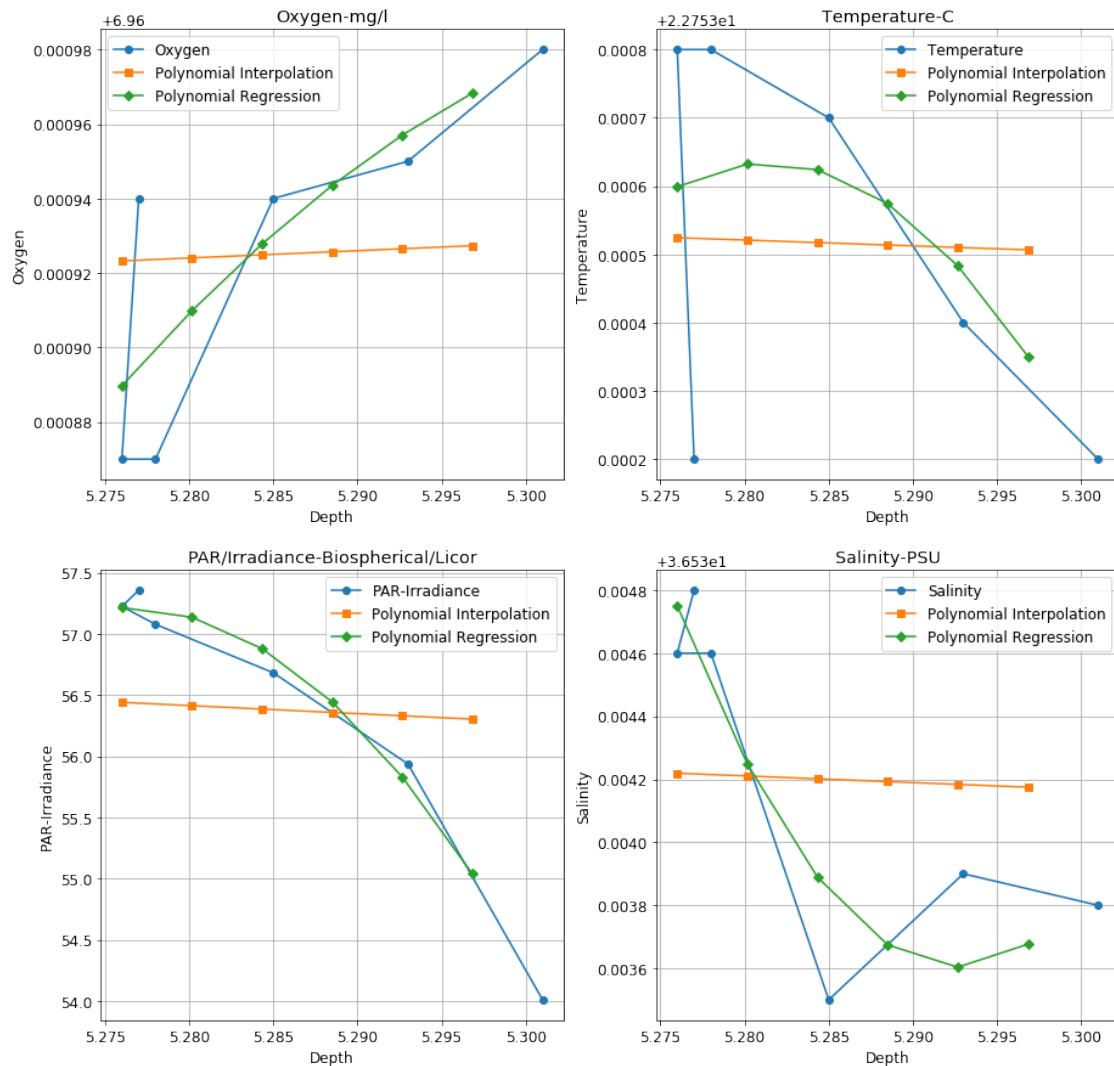
## Profile K79\_228



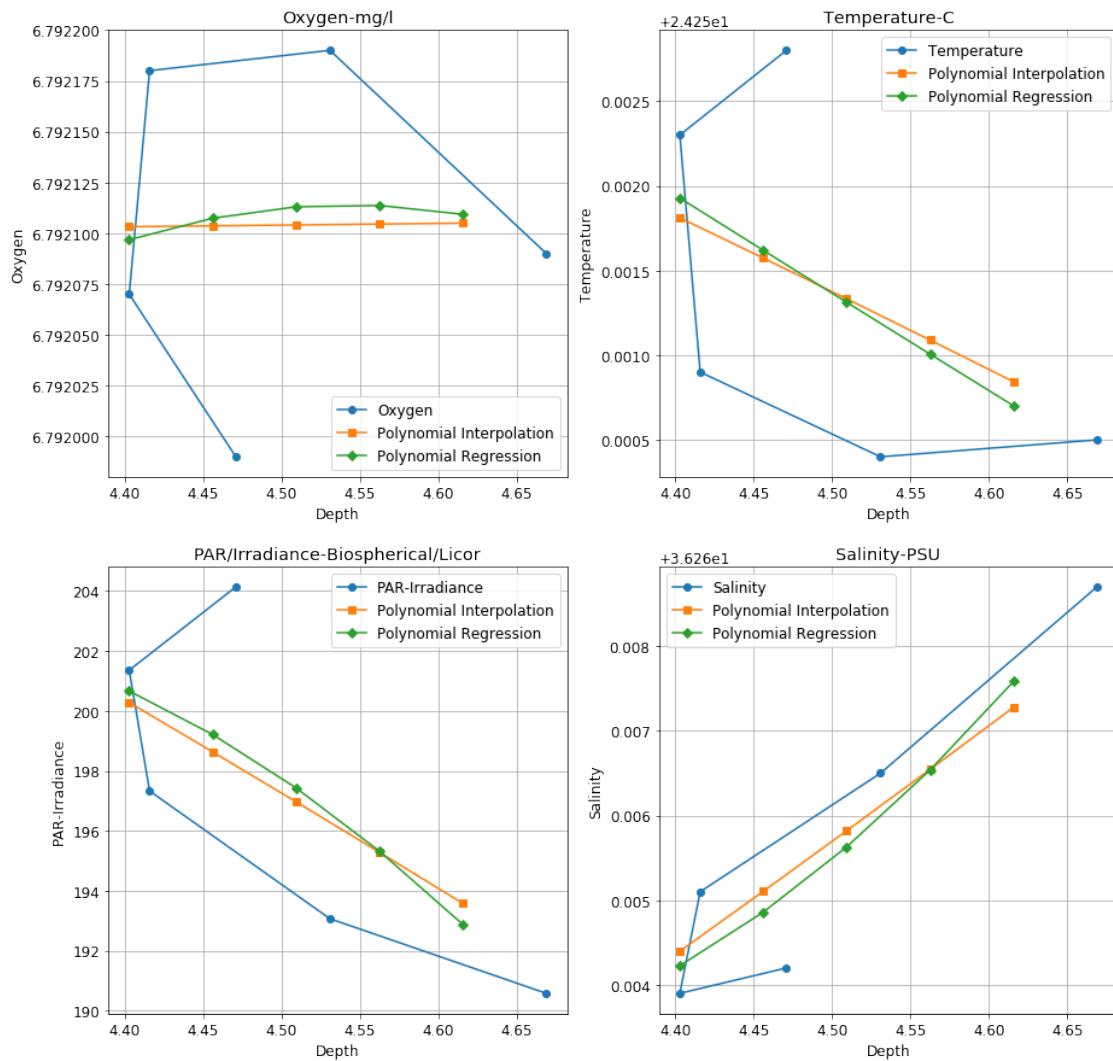
## Profile K79\_229



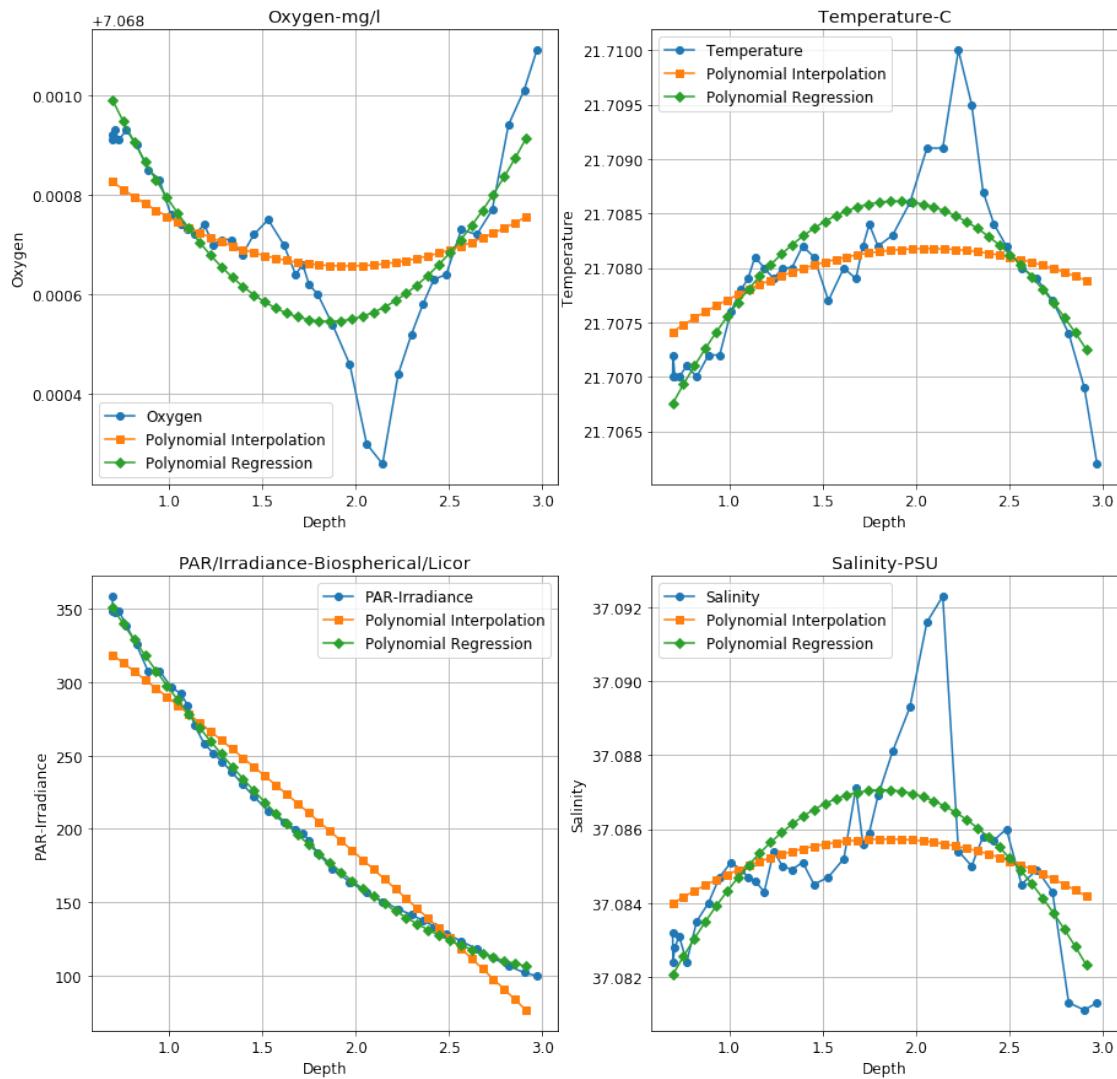
## Profile K79\_230



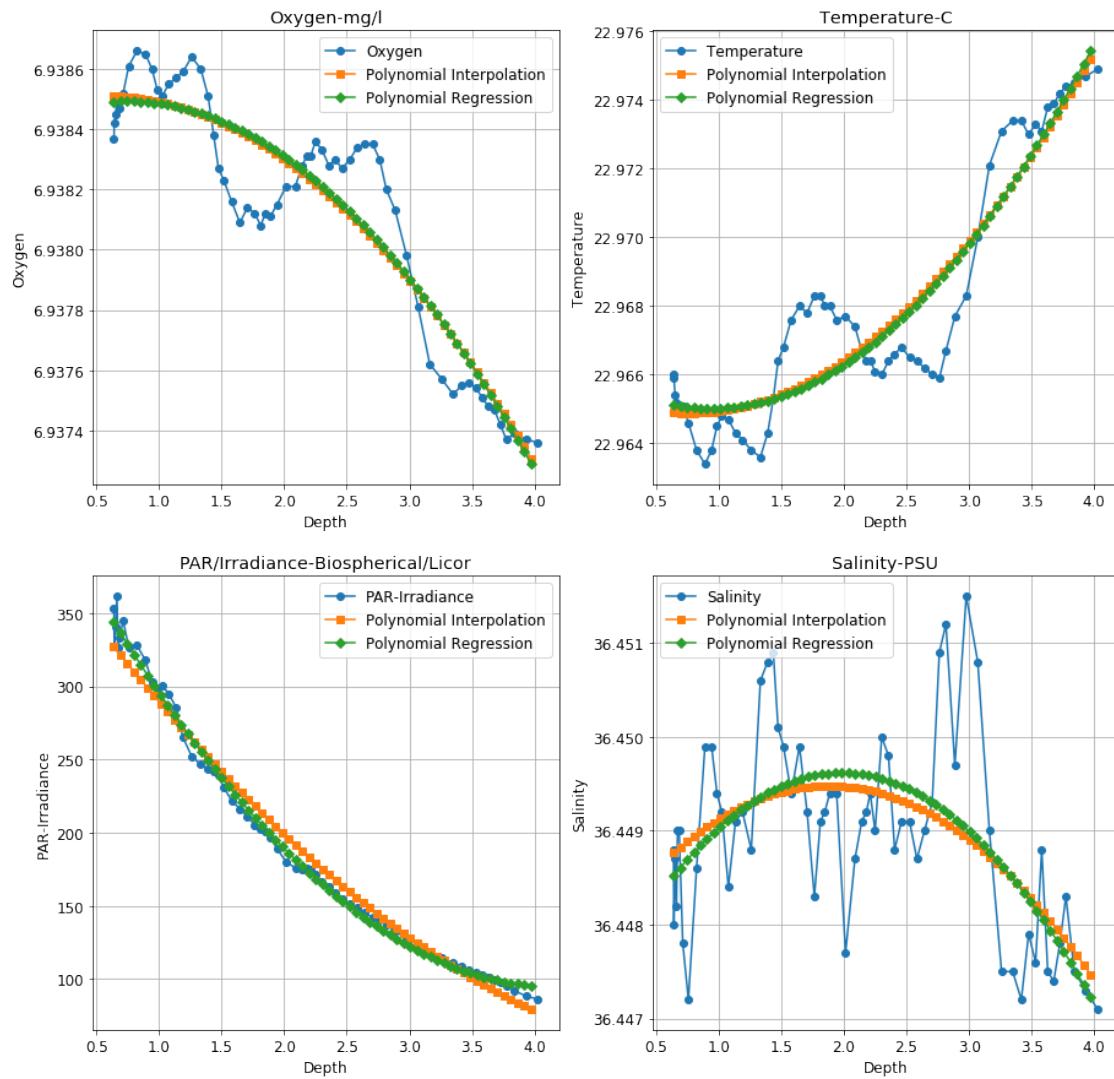
## Profile K79\_231



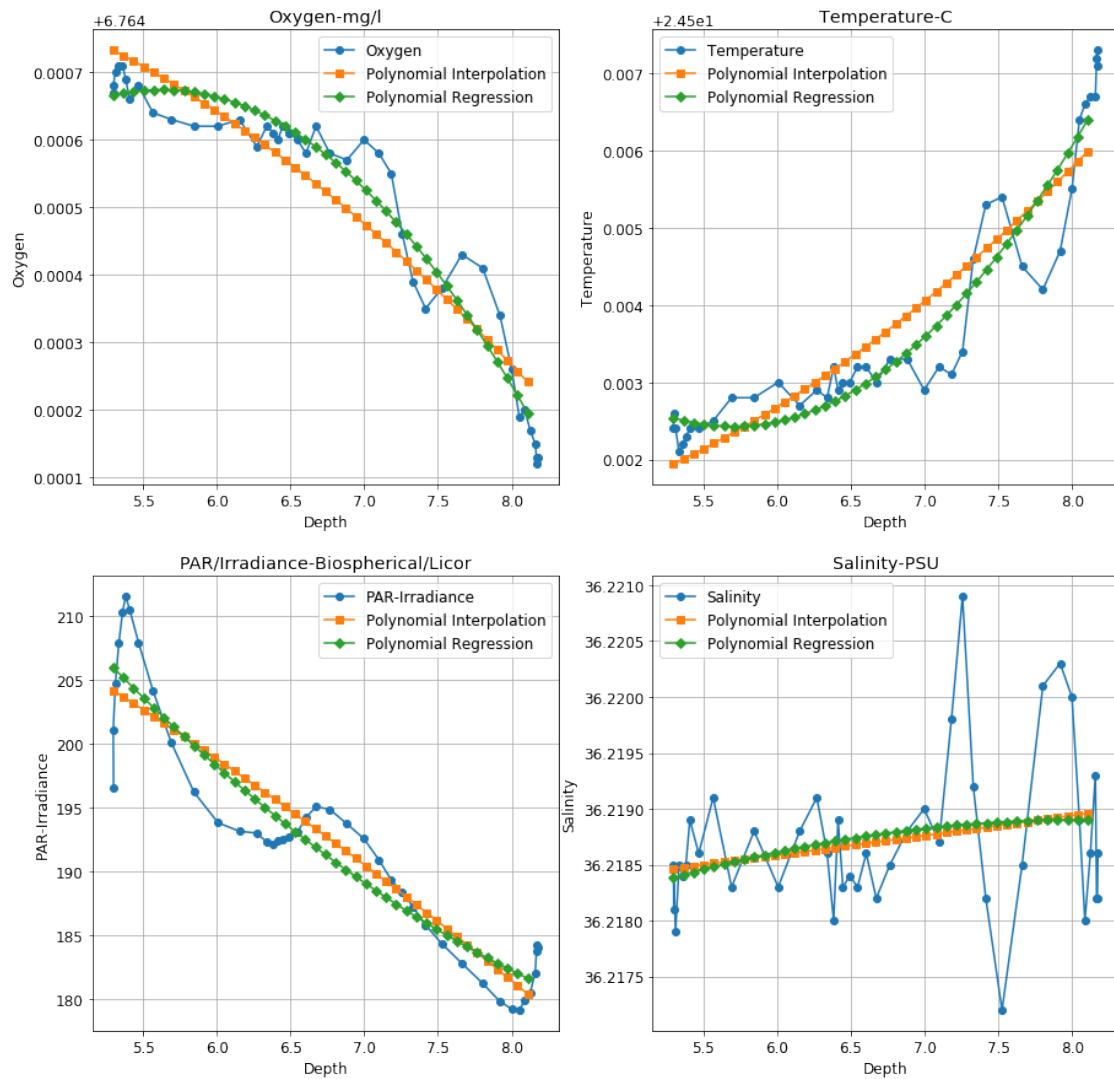
## Profile K79\_232



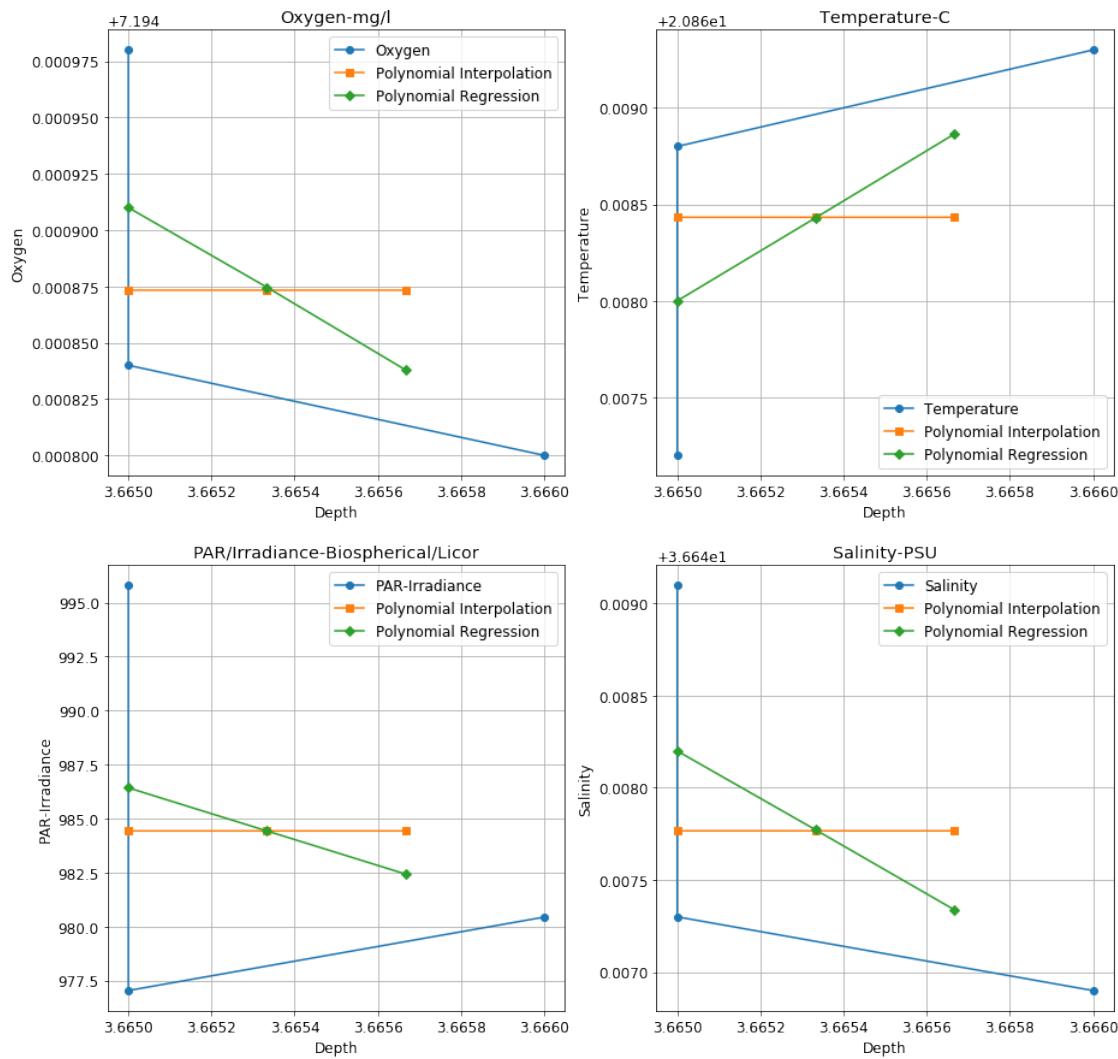
## Profile K79\_235



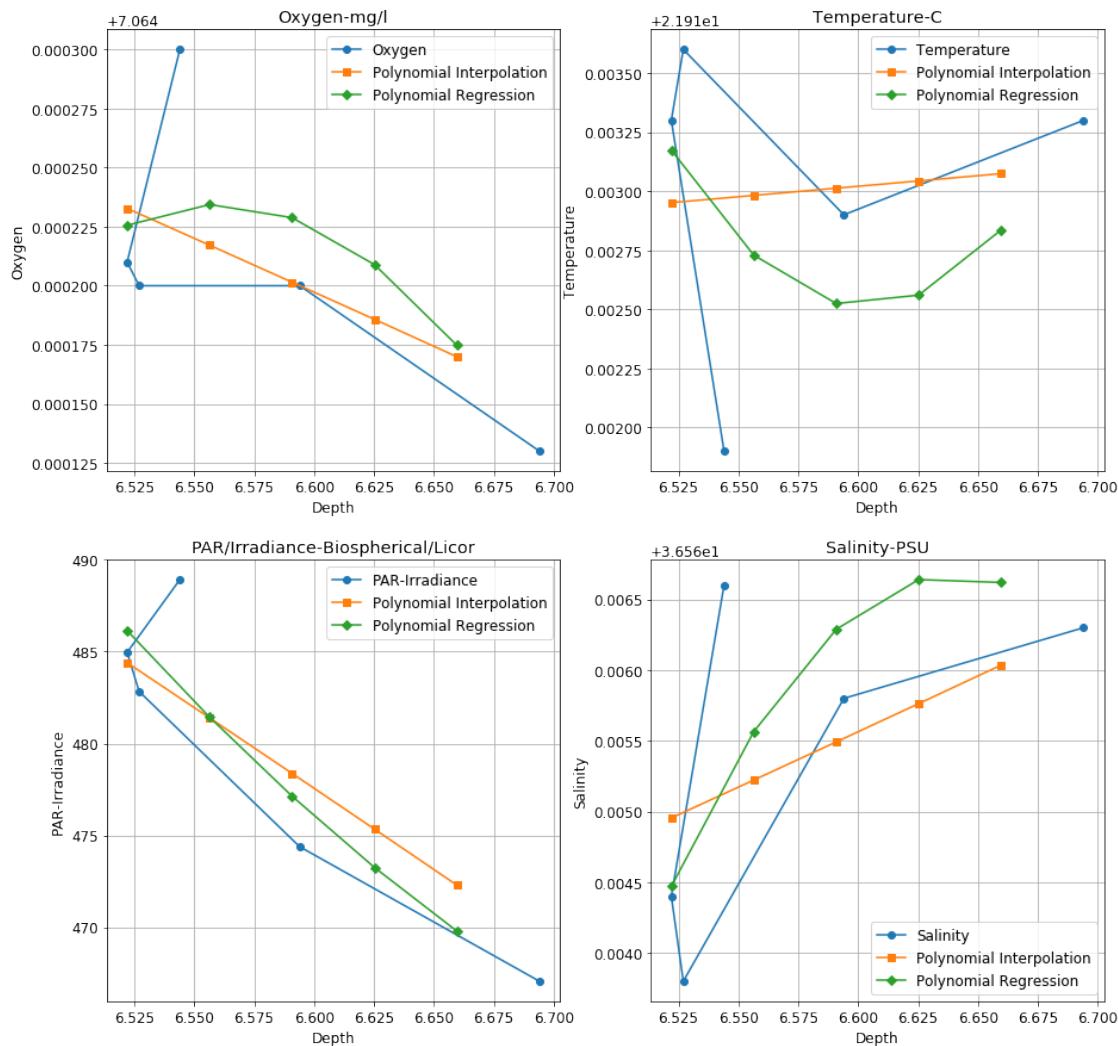
## Profile K79\_237



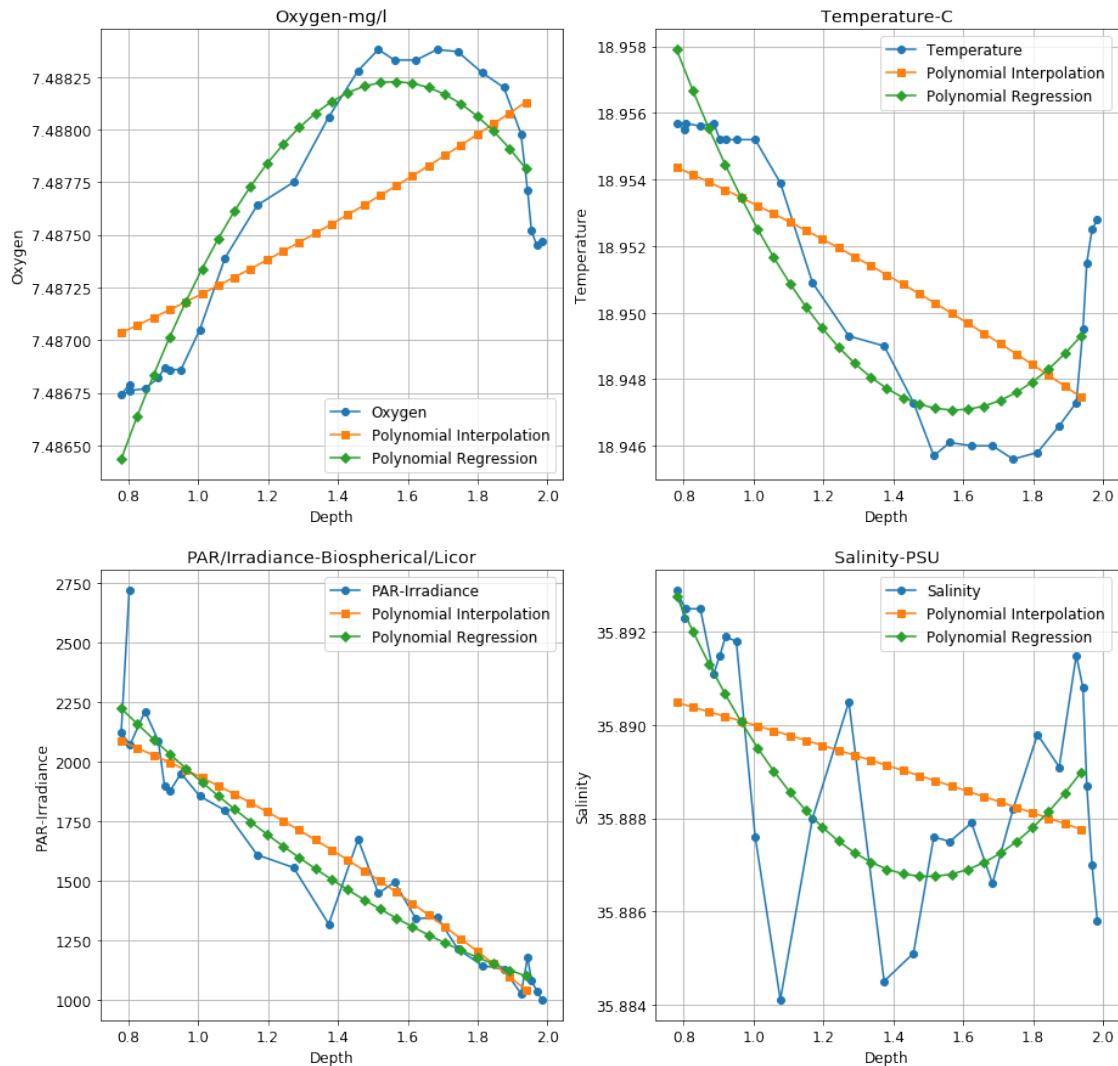
## Profile K79\_238



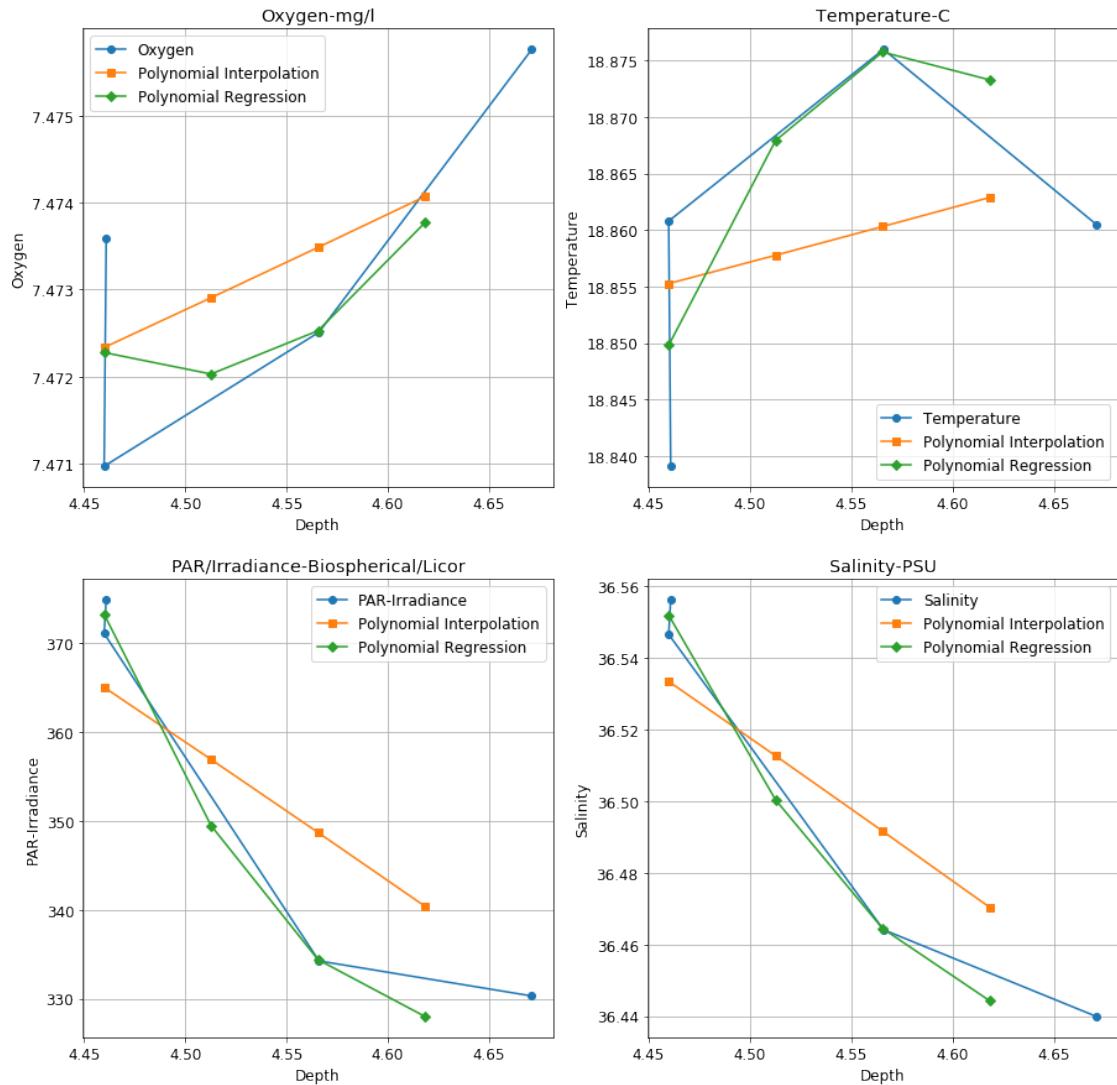
## Profile K79\_239



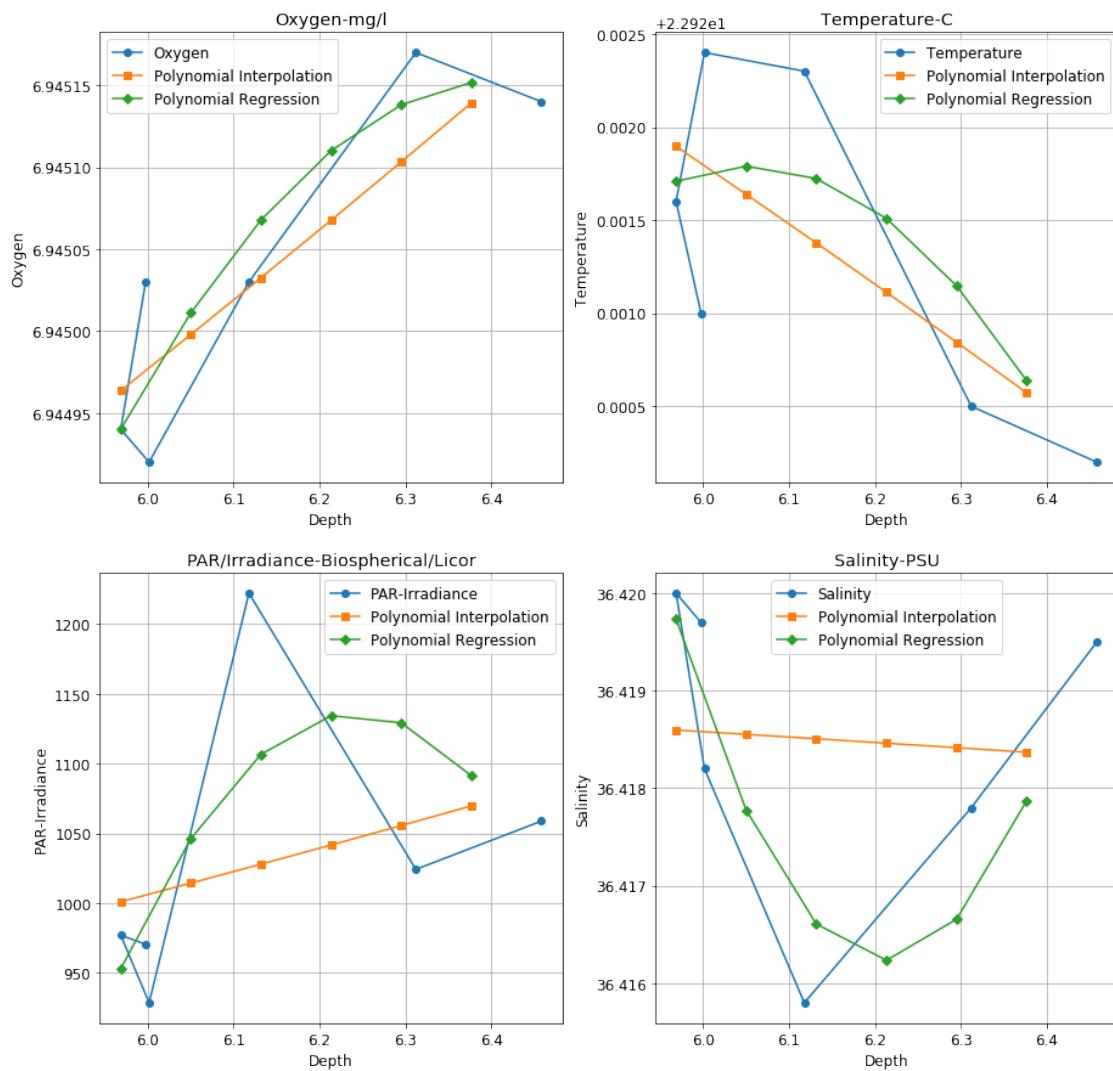
## Profile K79\_241



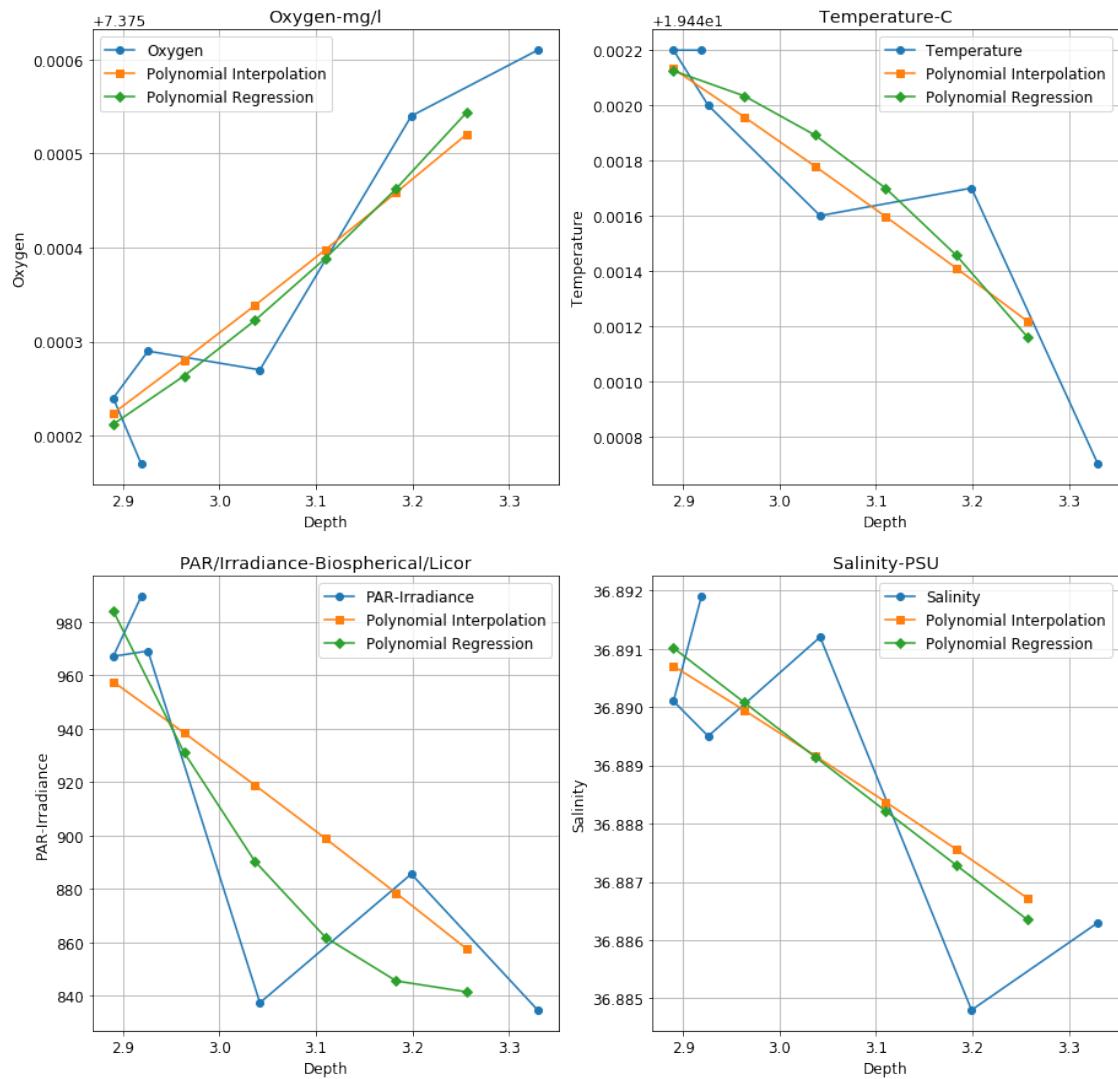
## Profile K79\_242



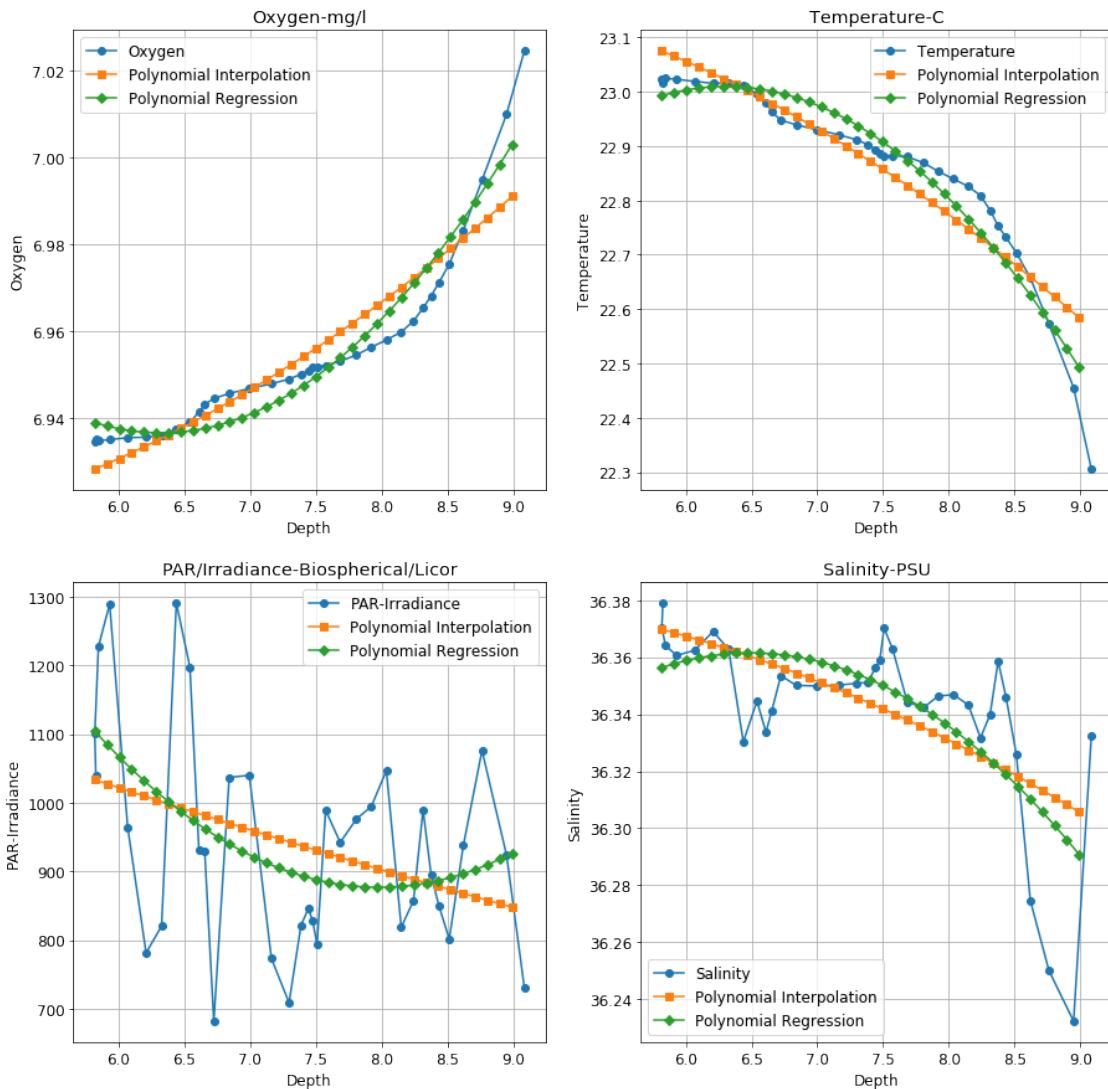
## Profile K79\_243



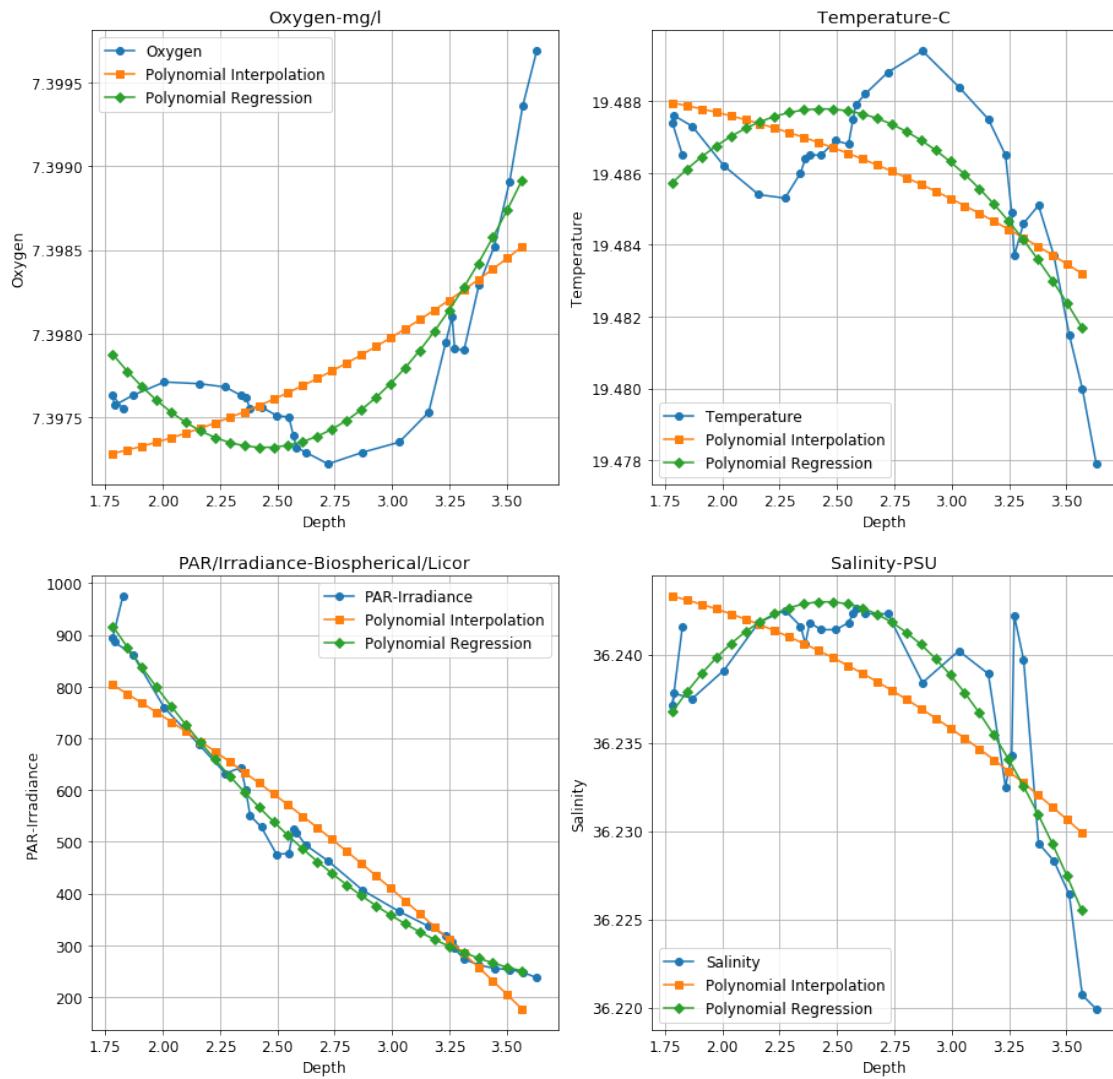
## Profile K79\_244



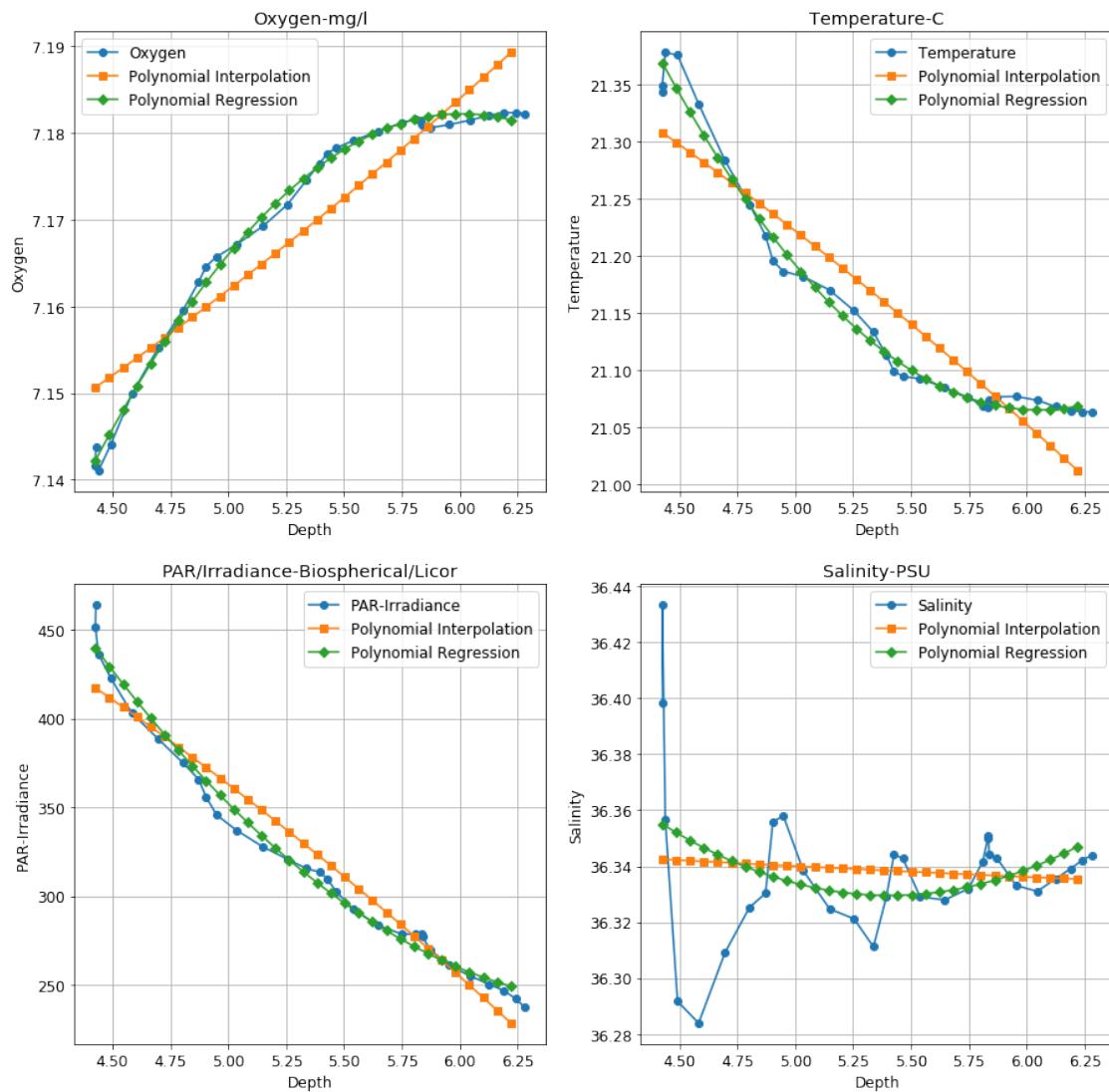
## Profile K79\_246



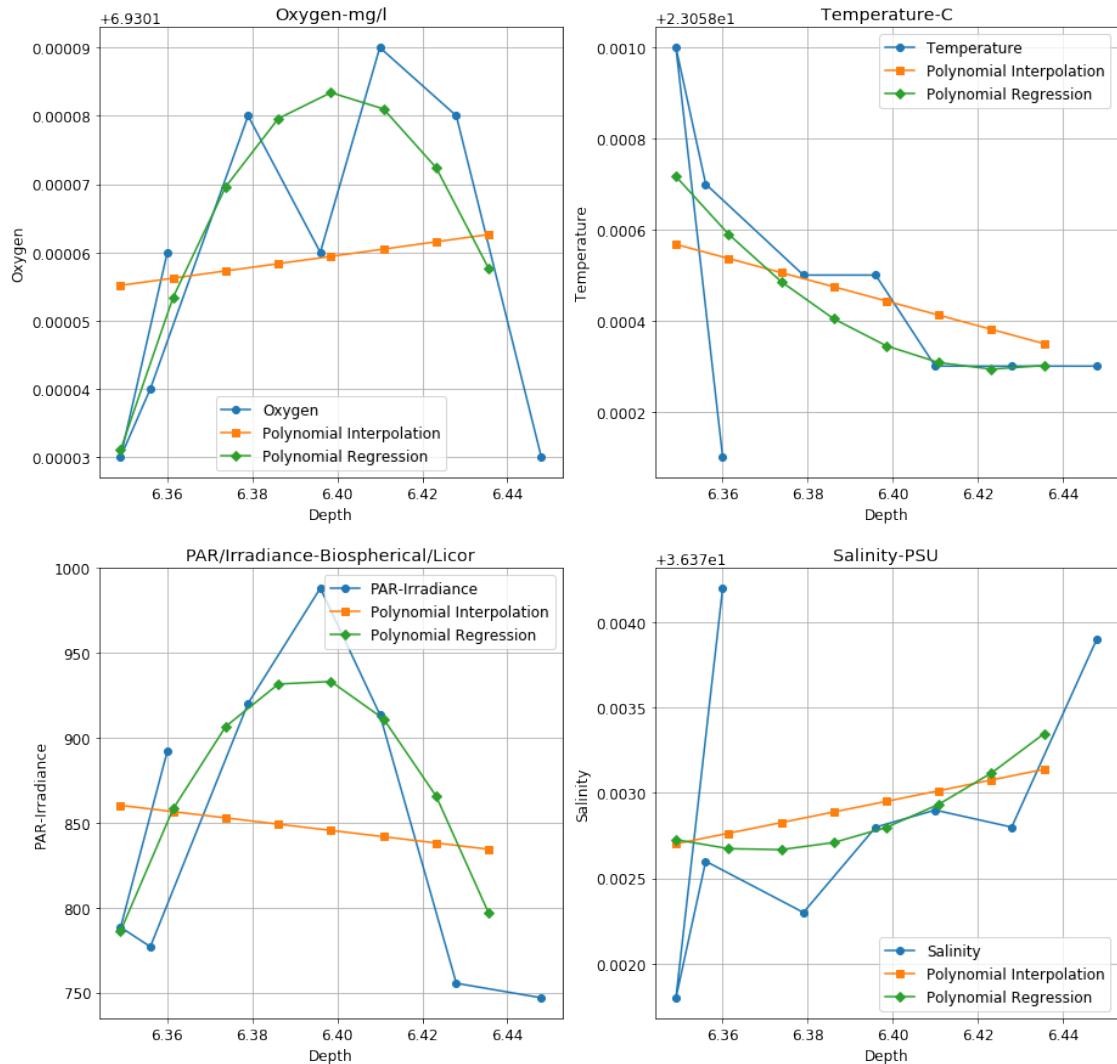
## Profile K79\_247



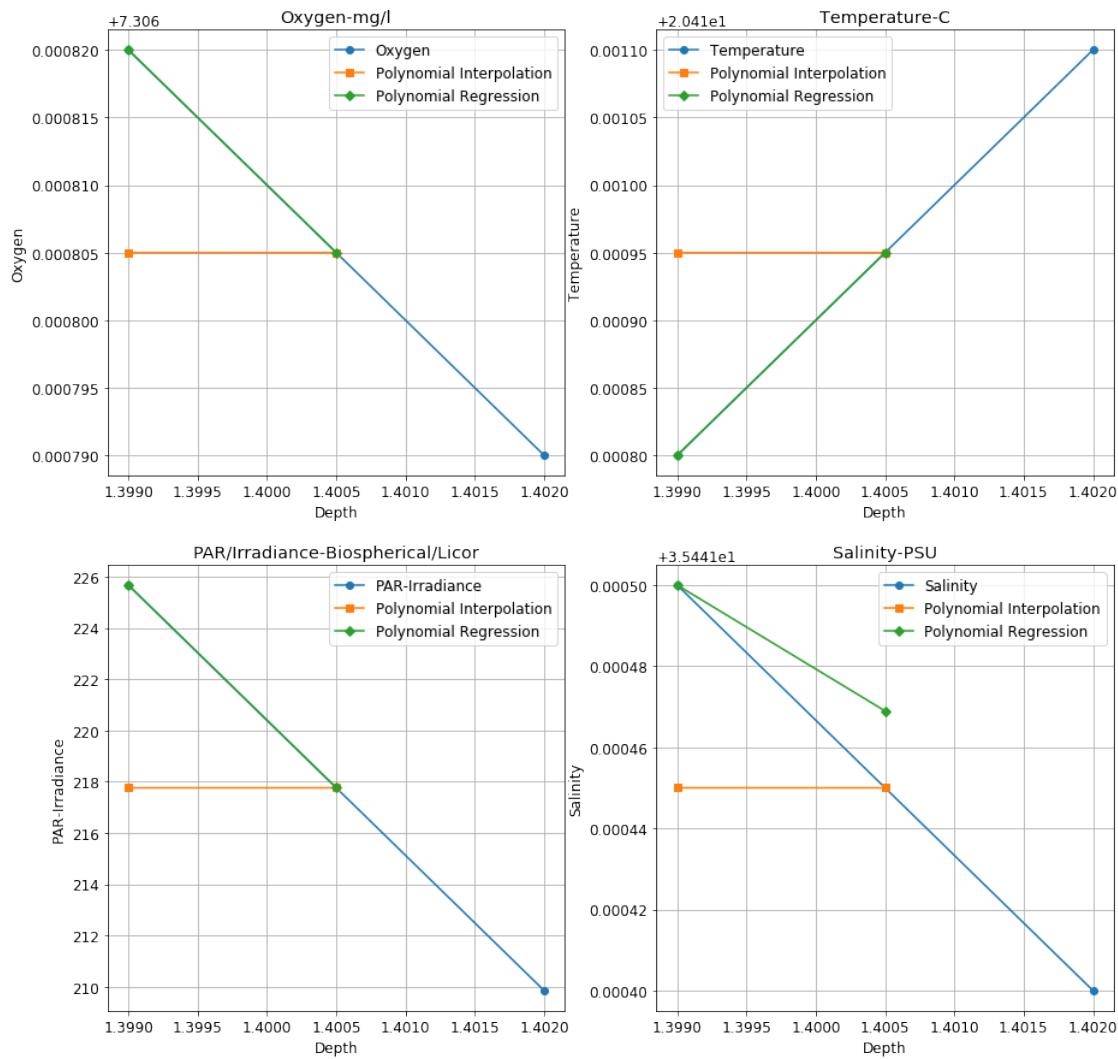
## Profile K79\_248



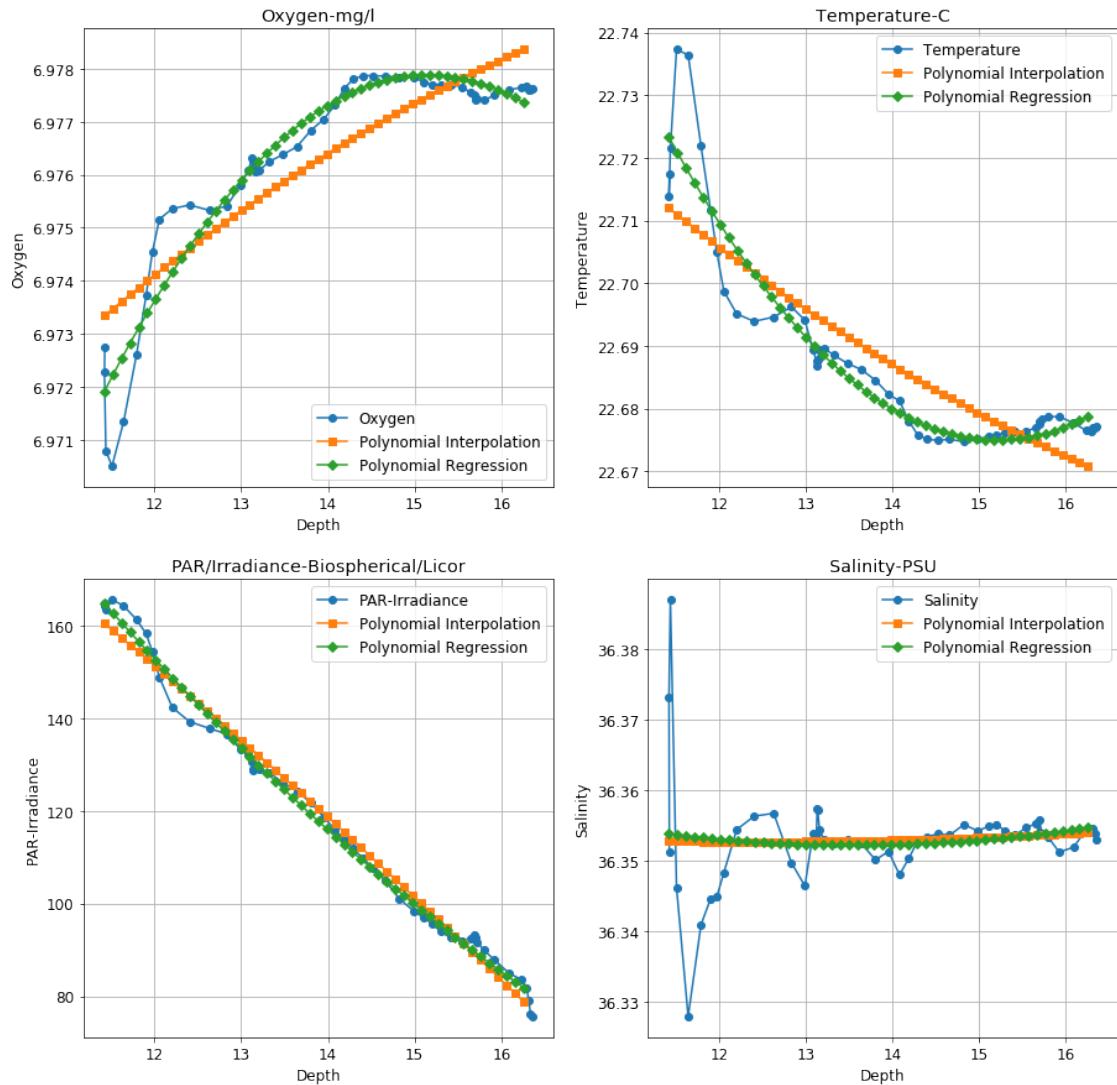
## Profile K79\_249



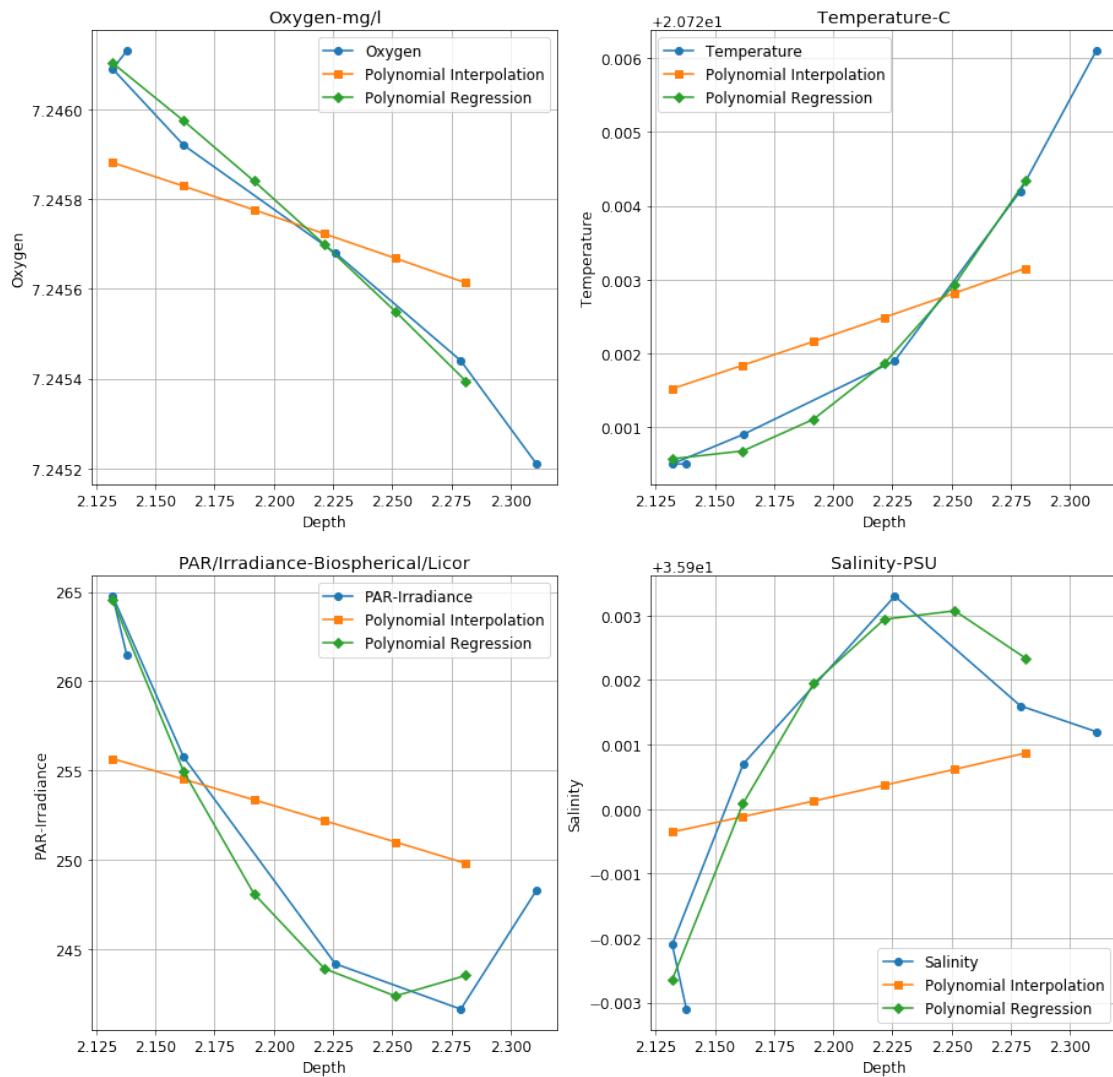
## Profile K79\_250



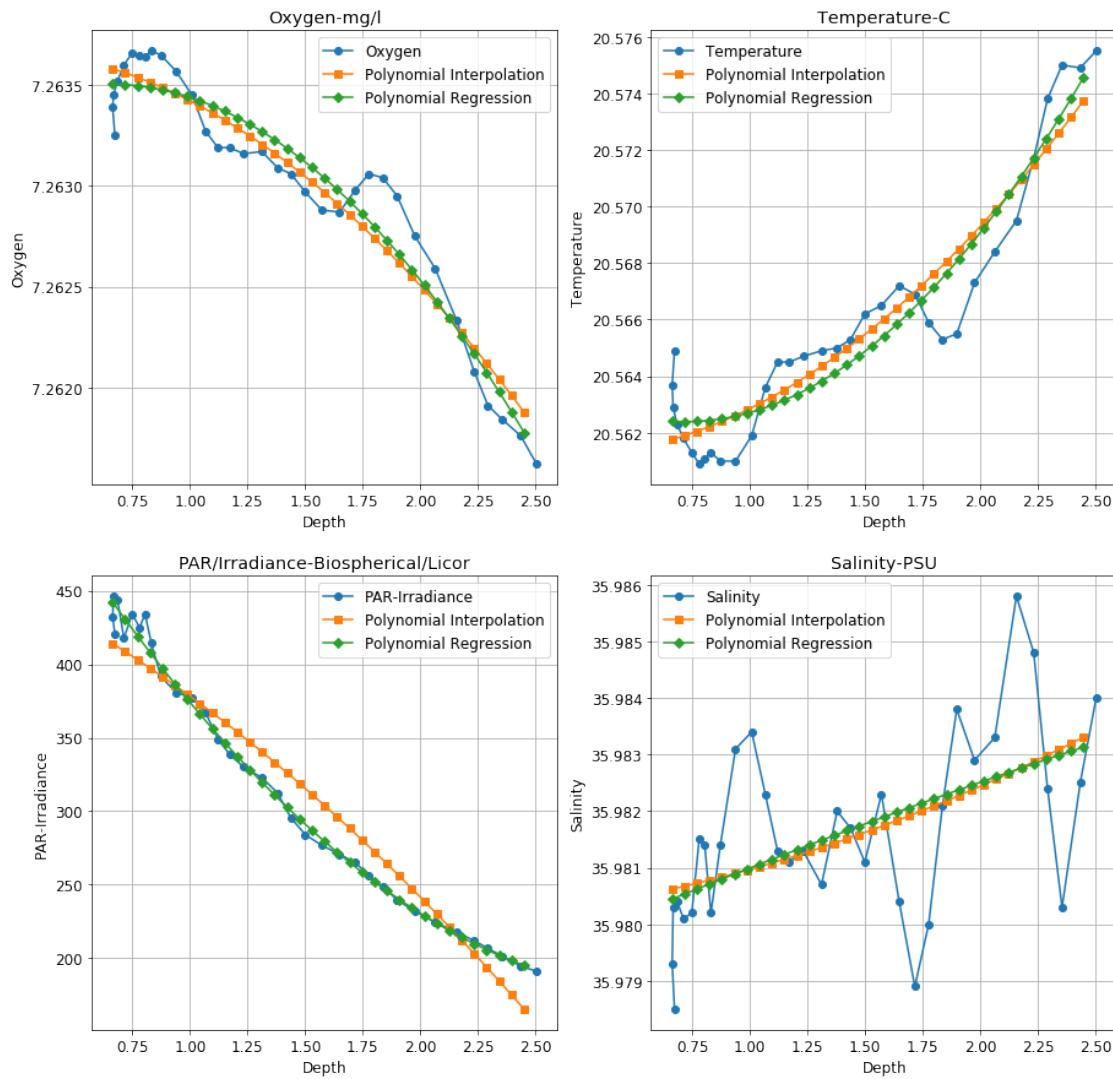
## Profile K79\_252



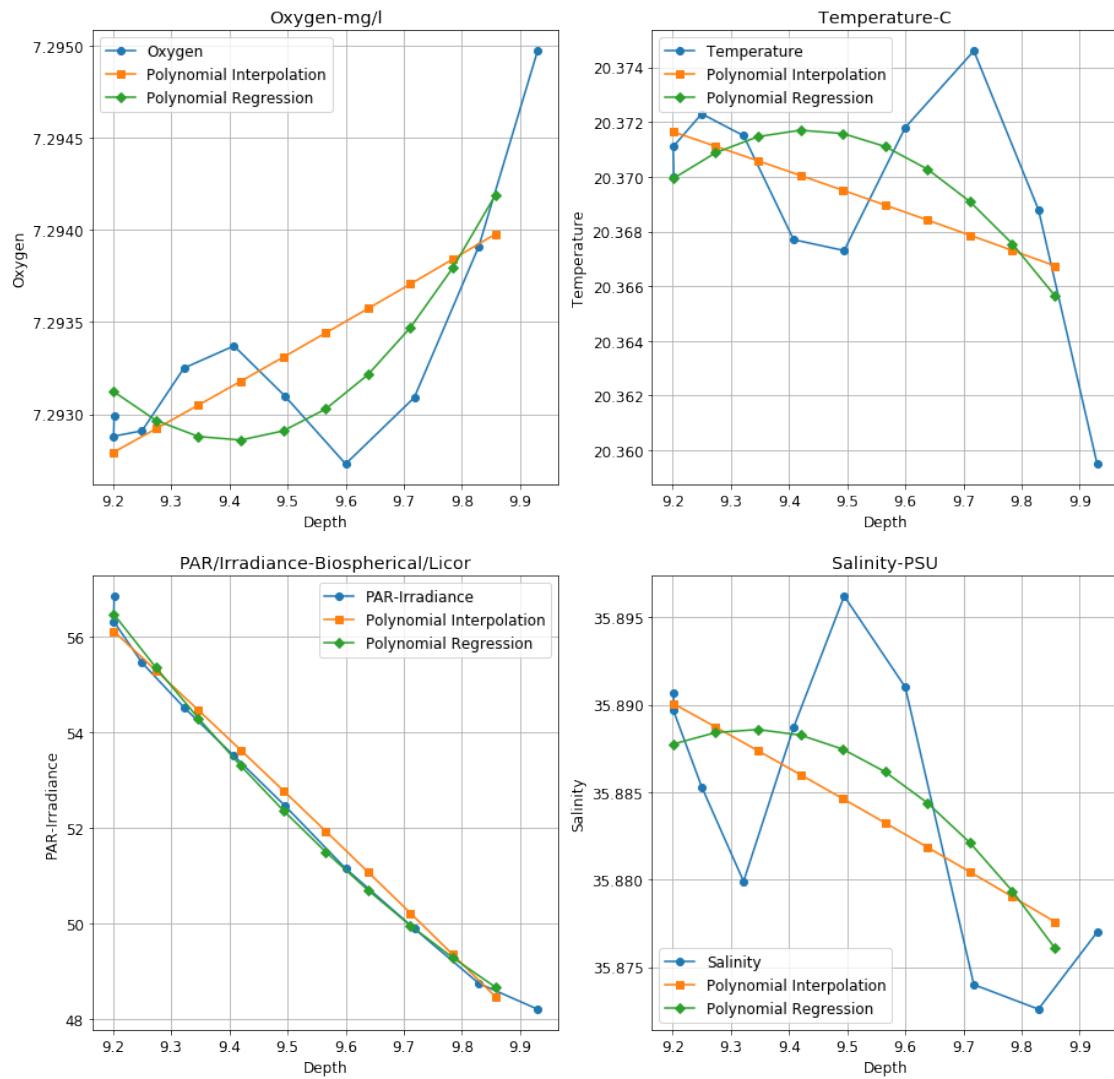
## Profile K79\_253



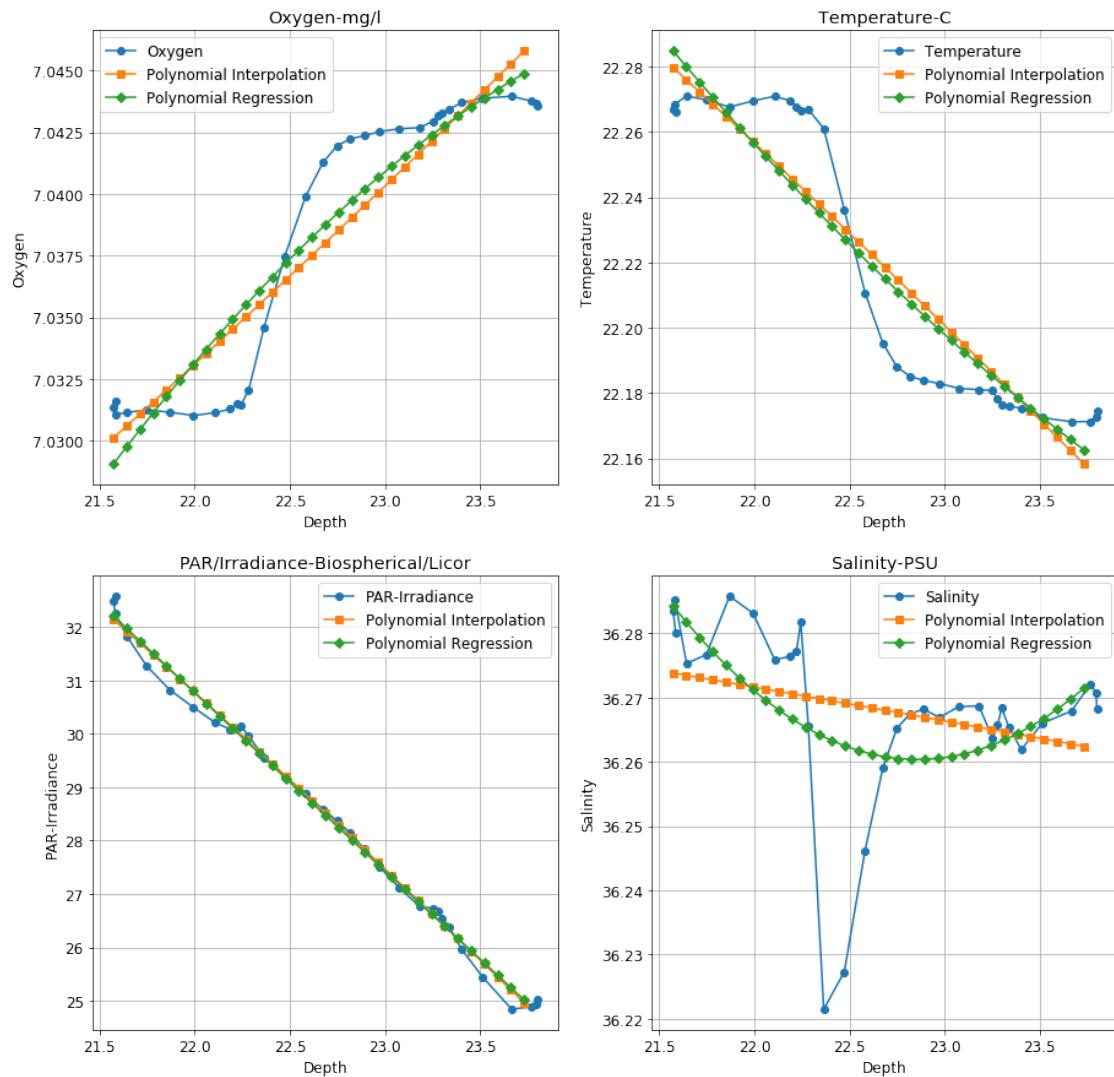
## Profile K79\_254



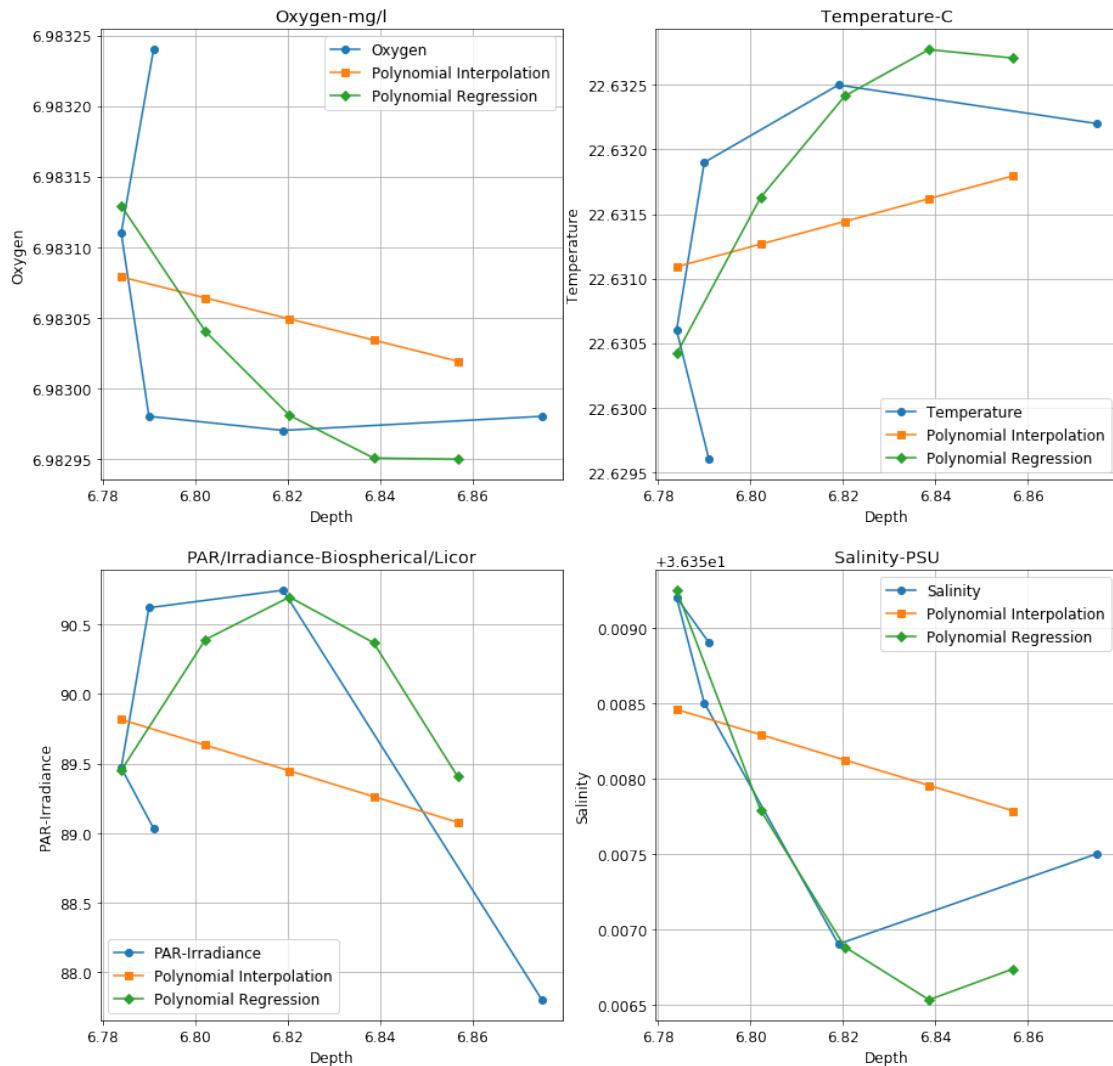
## Profile K79\_255



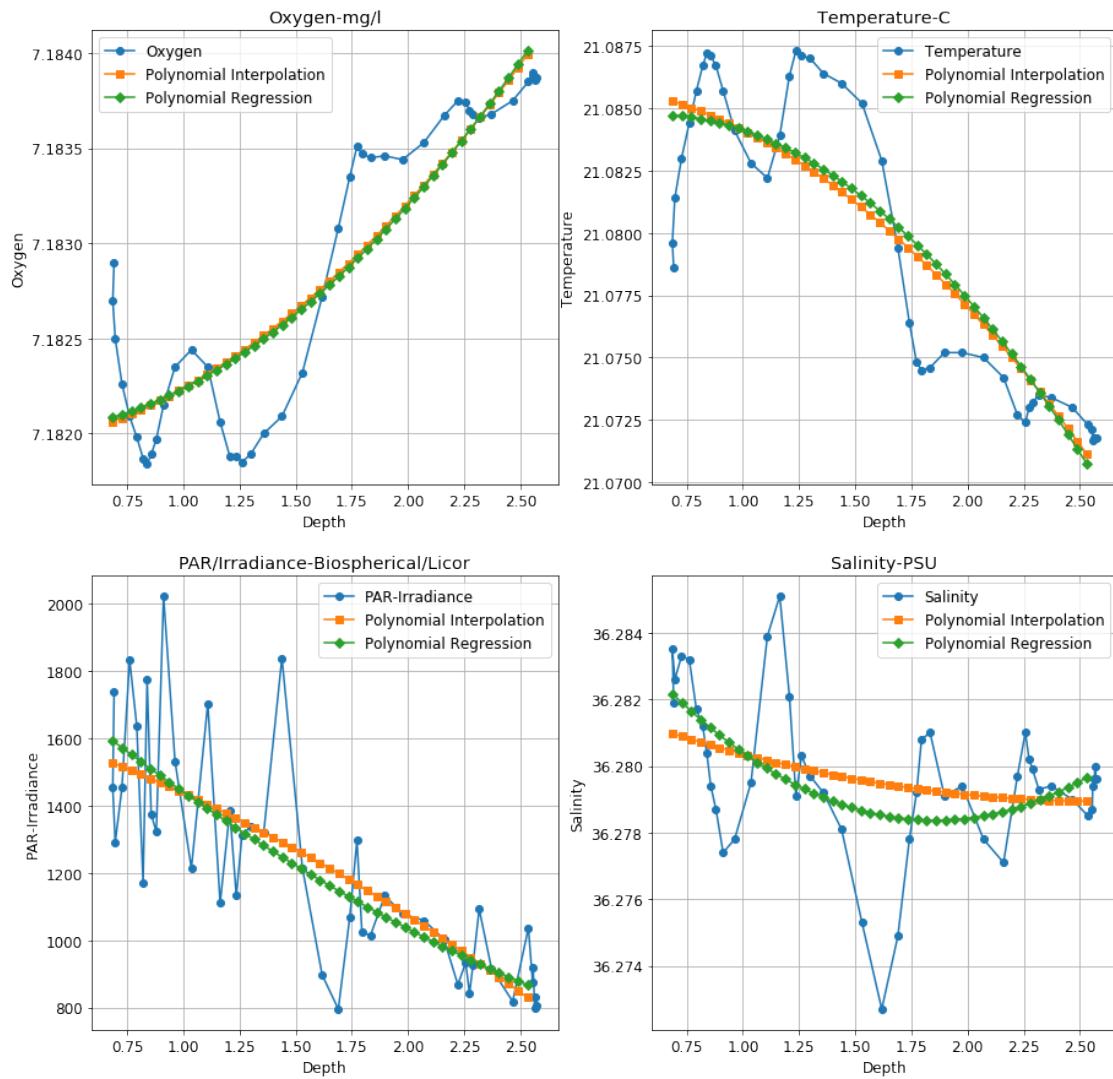
## Profile K79\_256



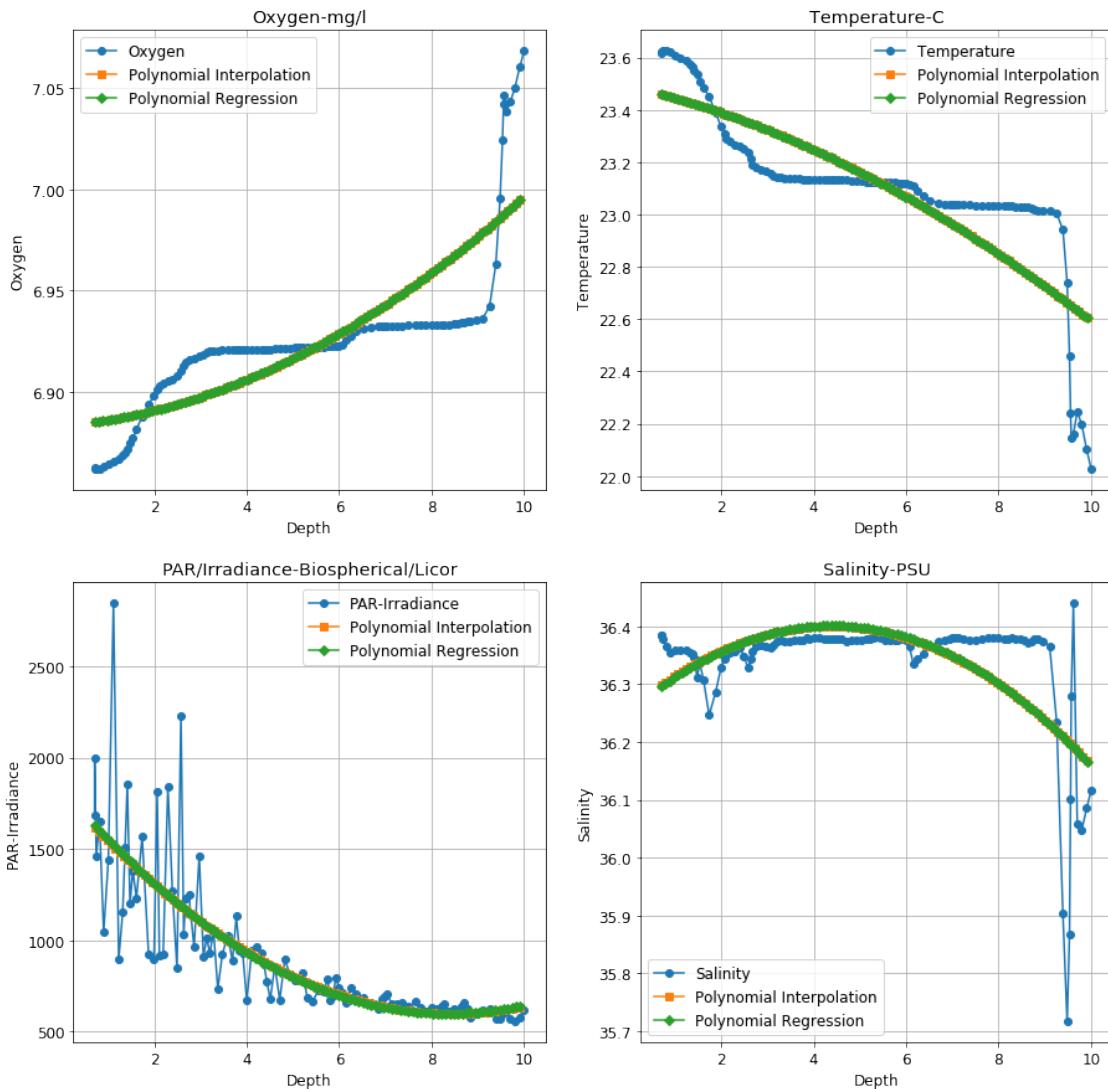
## Profile K79\_259



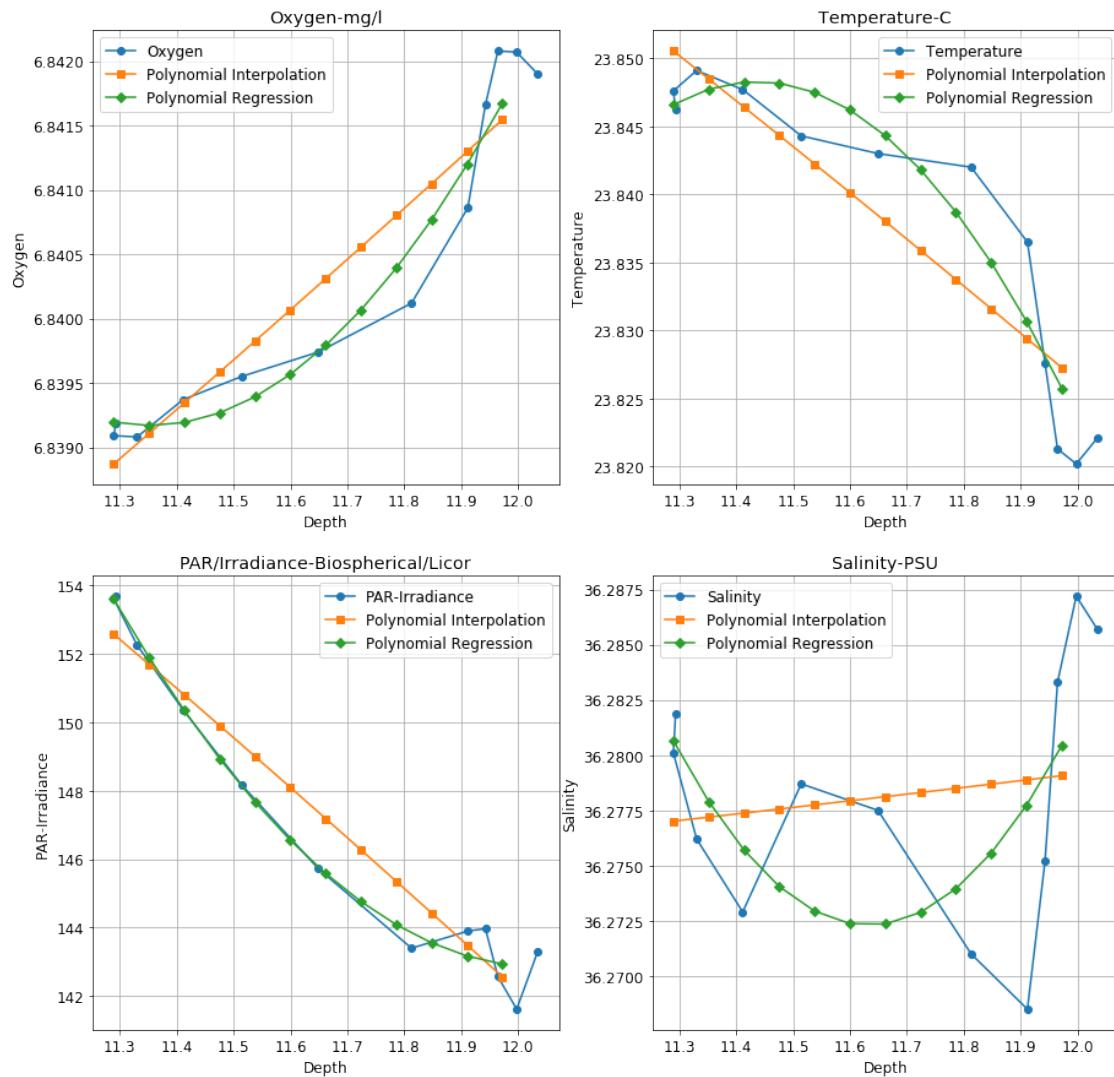
## Profile K79\_260



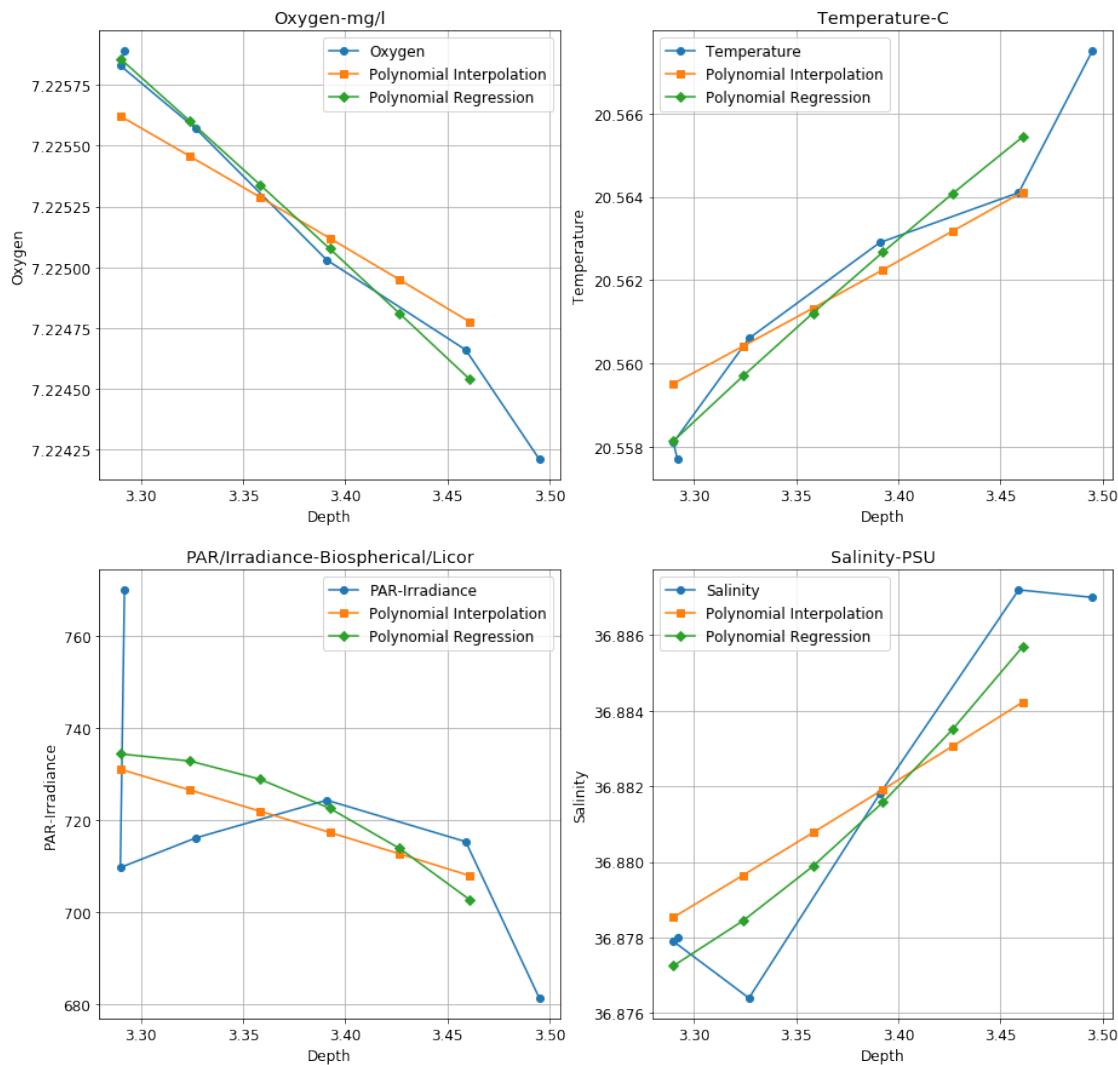
## Profile K79\_263



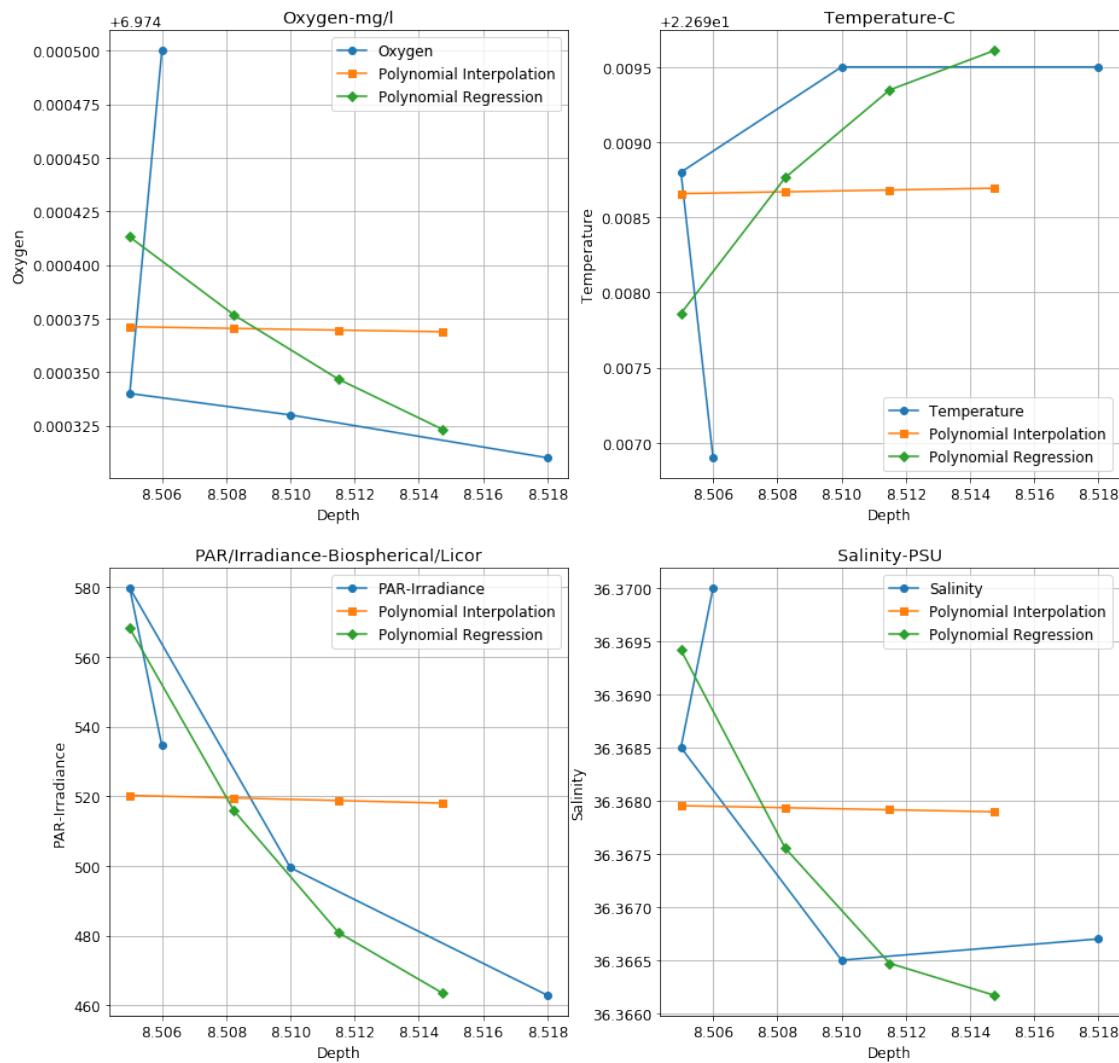
## Profile K79\_264



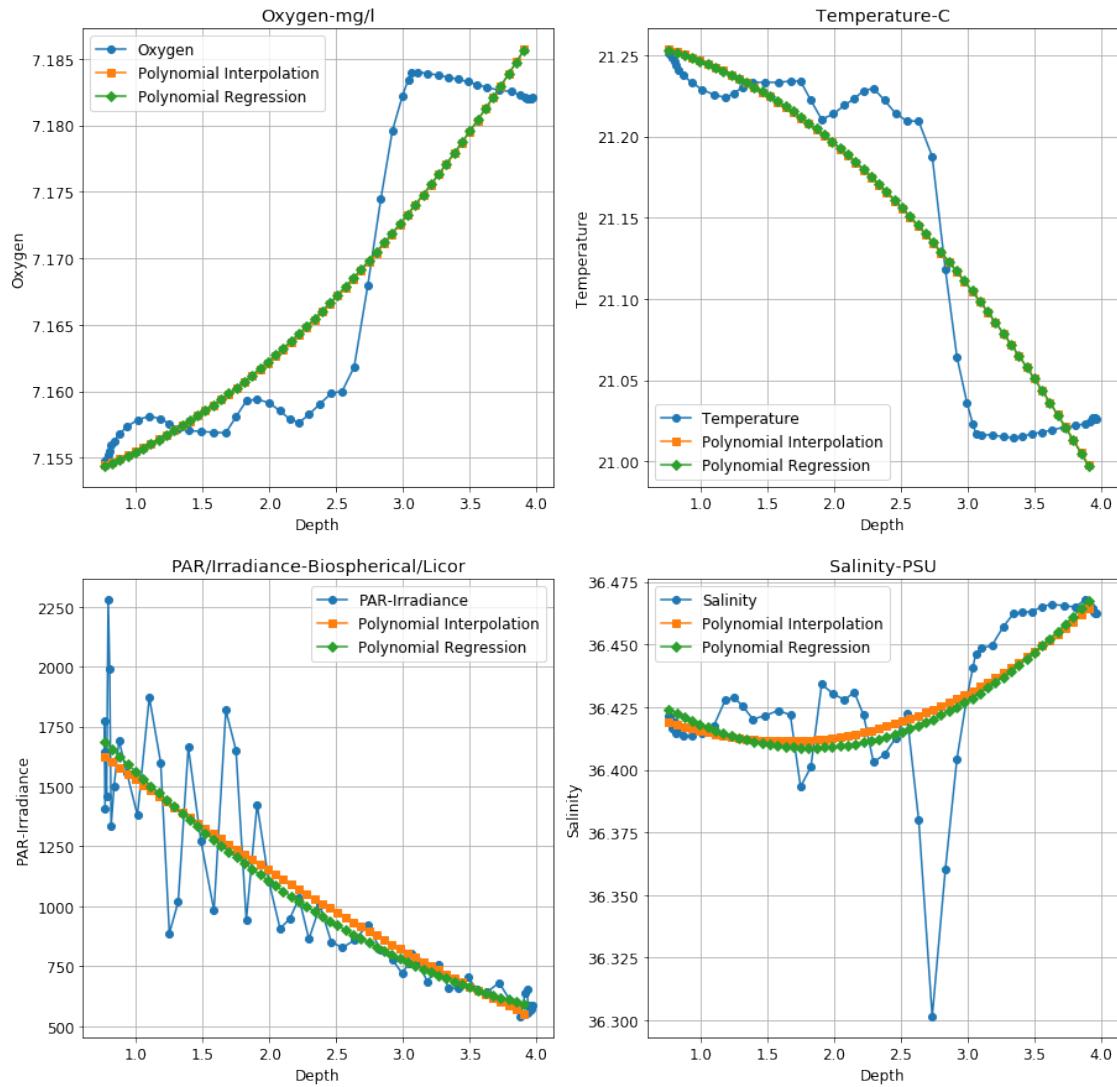
## Profile K79\_266



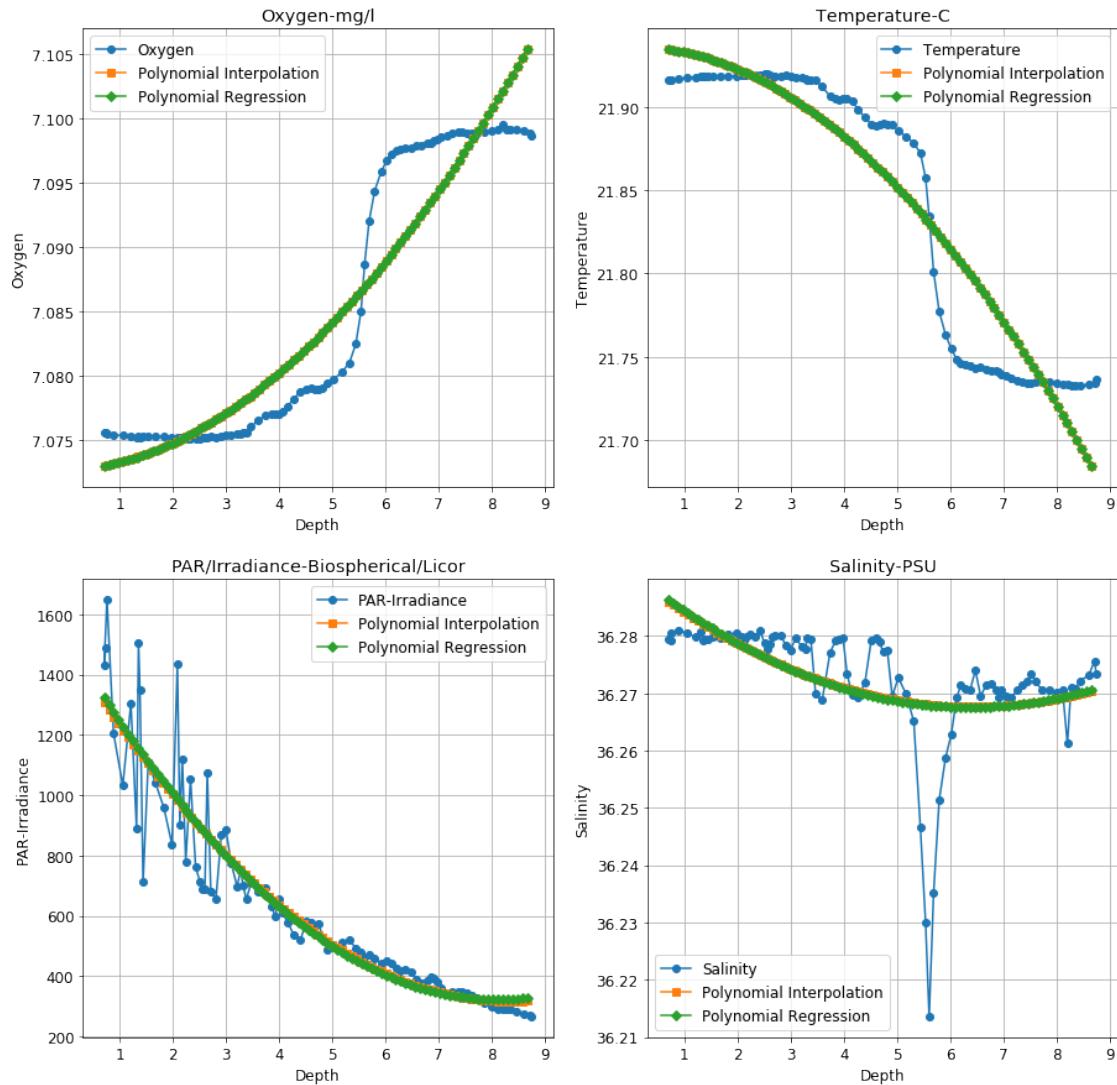
## Profile K79\_267



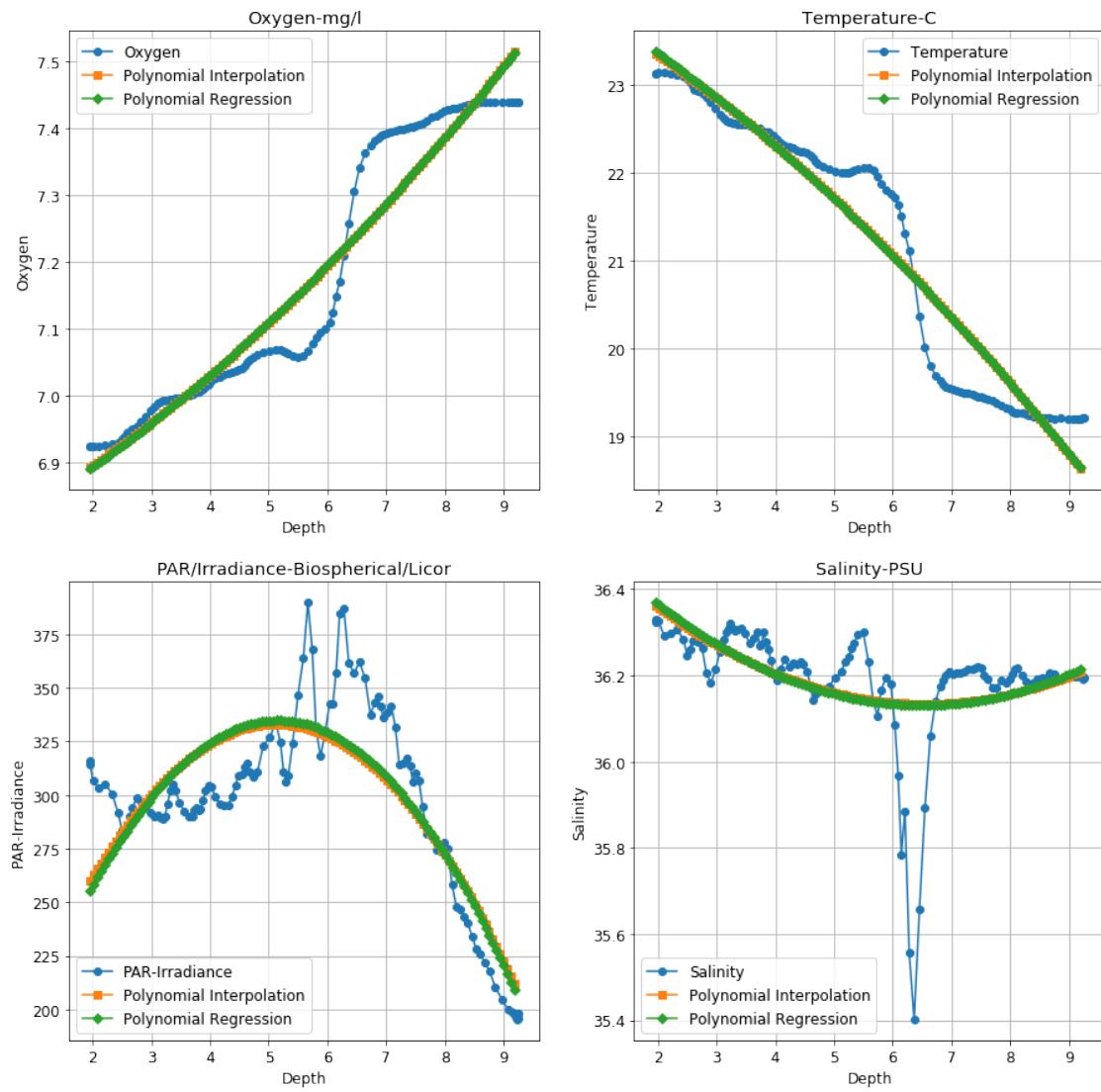
## Profile K79\_268



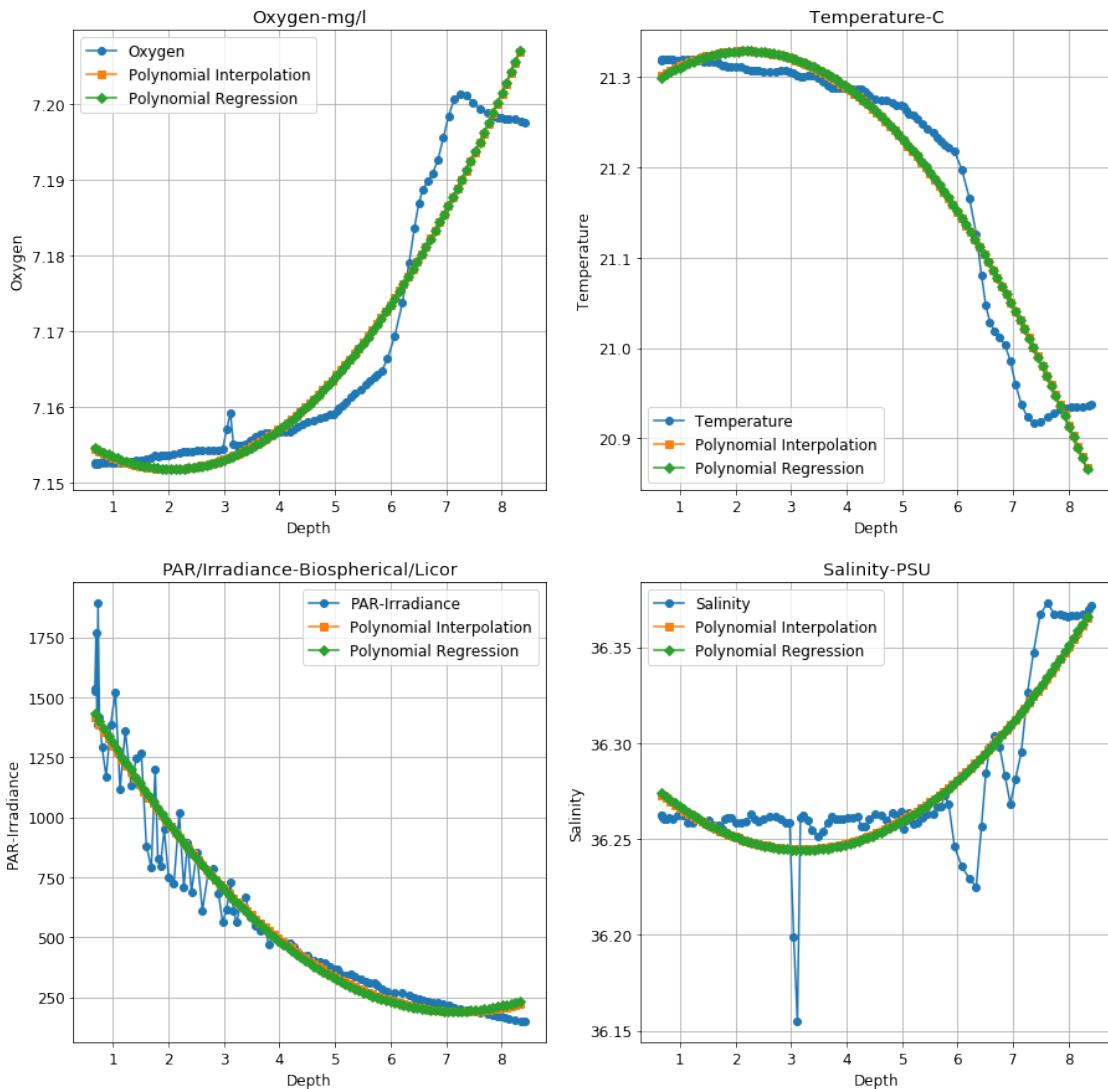
## Profile K79\_269



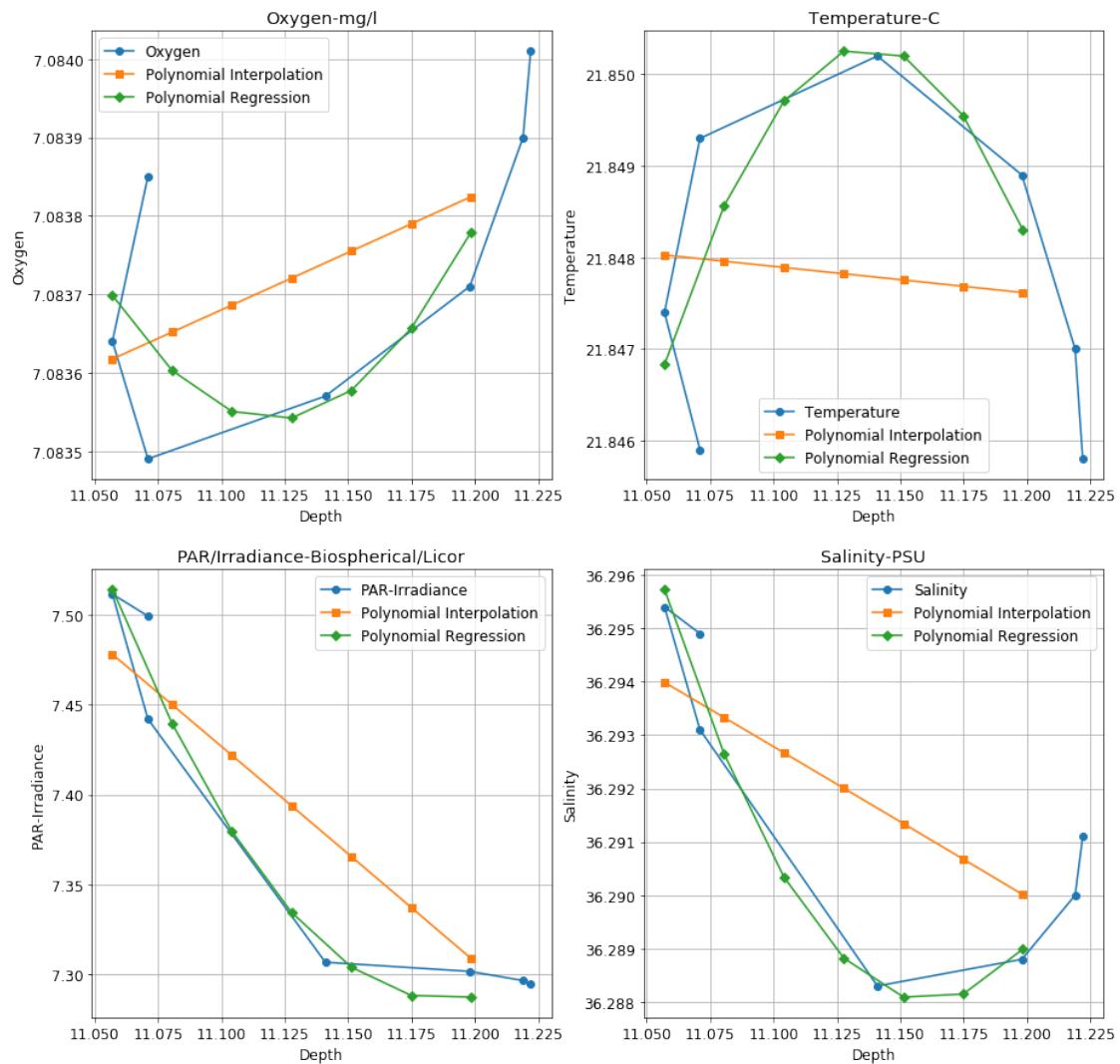
## Profile K79\_270



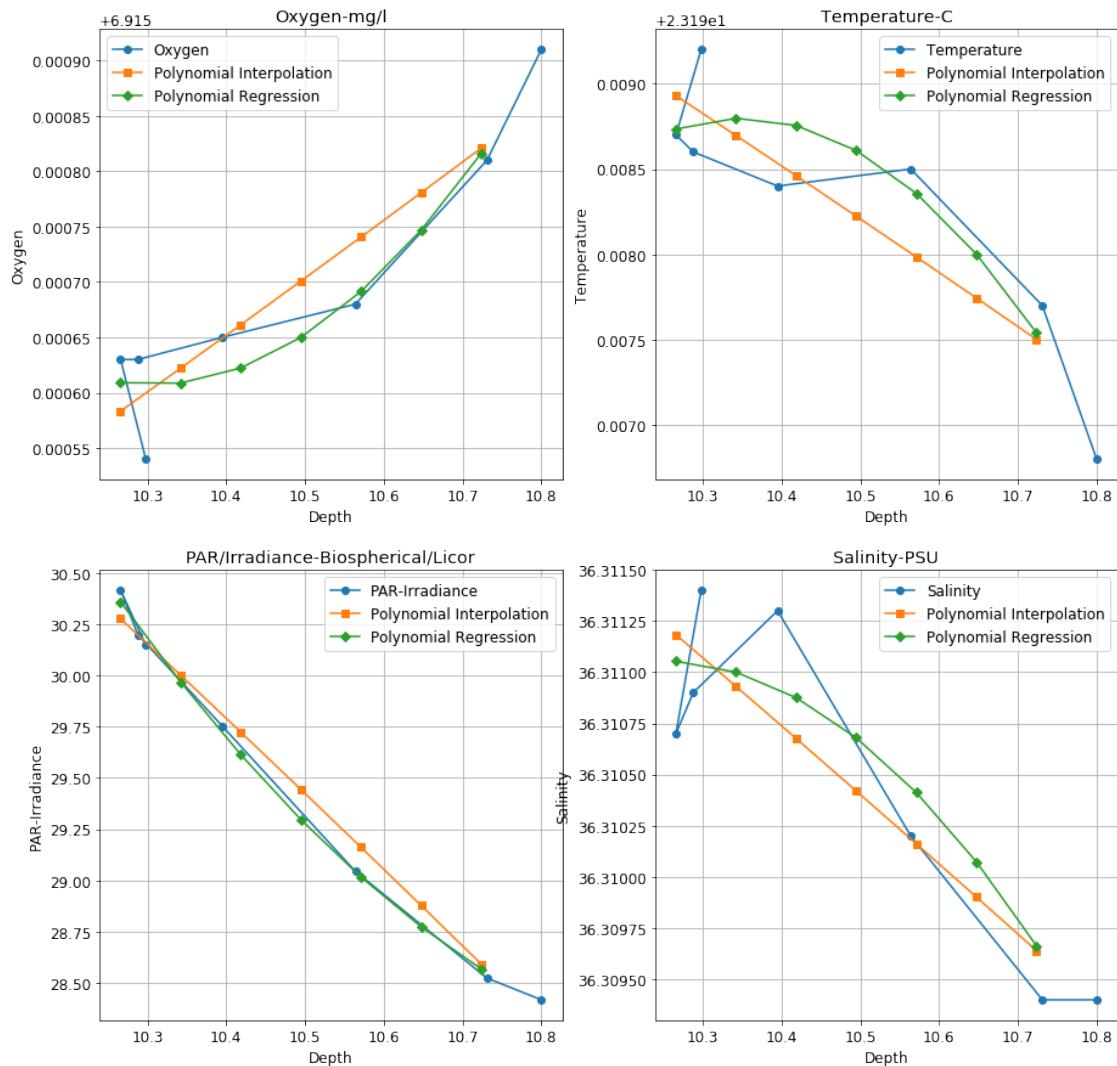
## Profile K79\_271



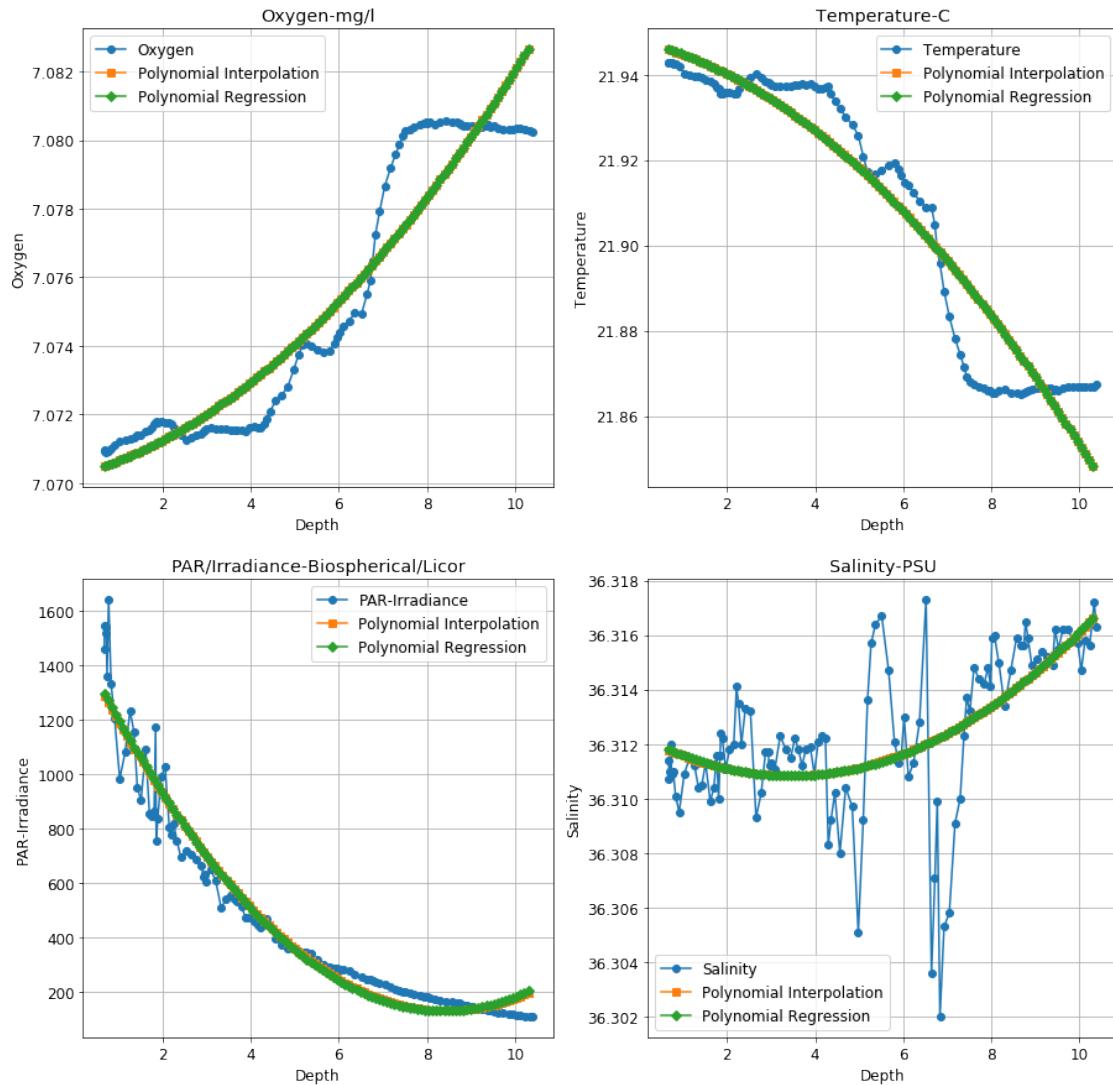
## Profile K79\_272



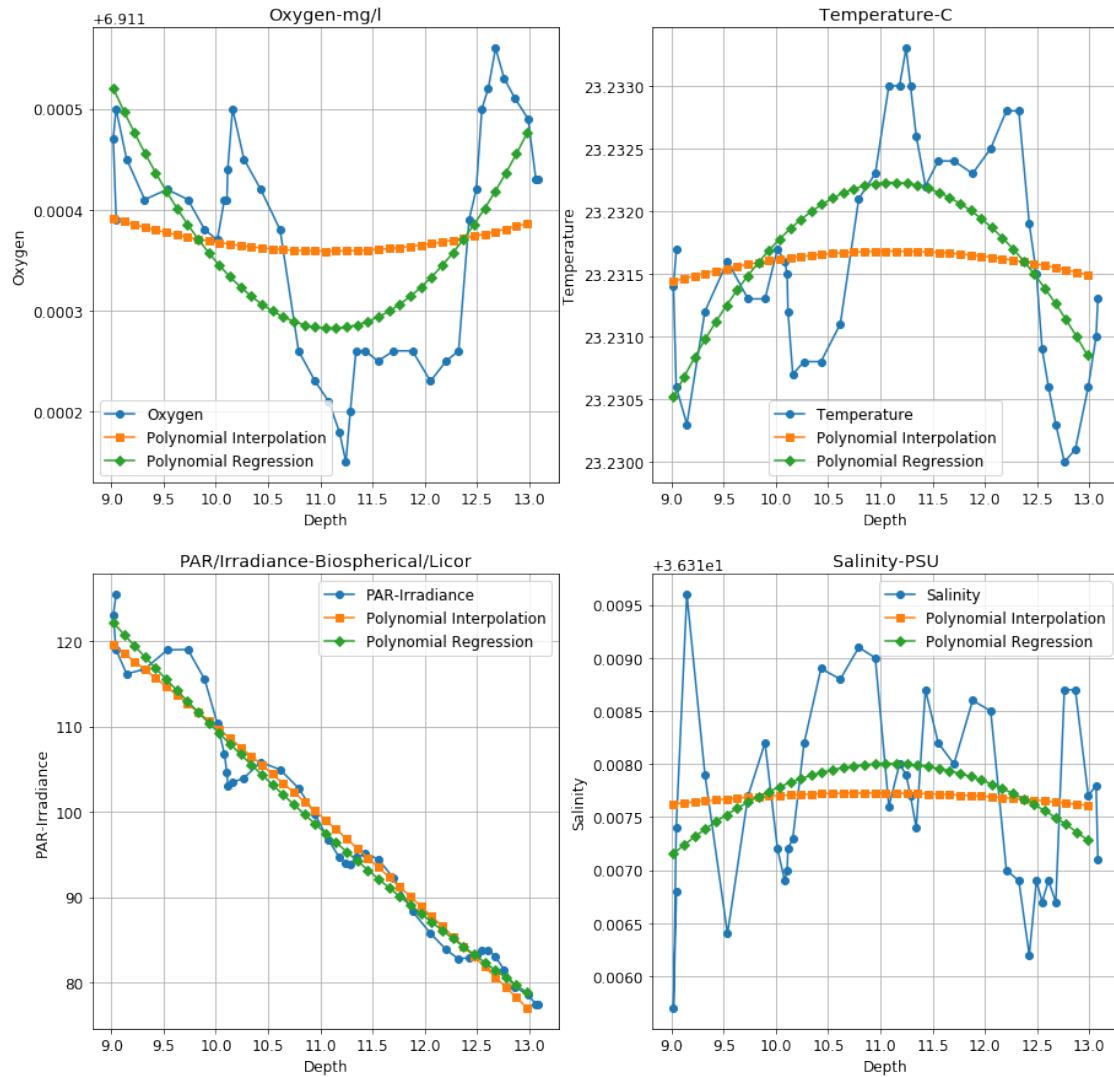
## Profile K79\_273



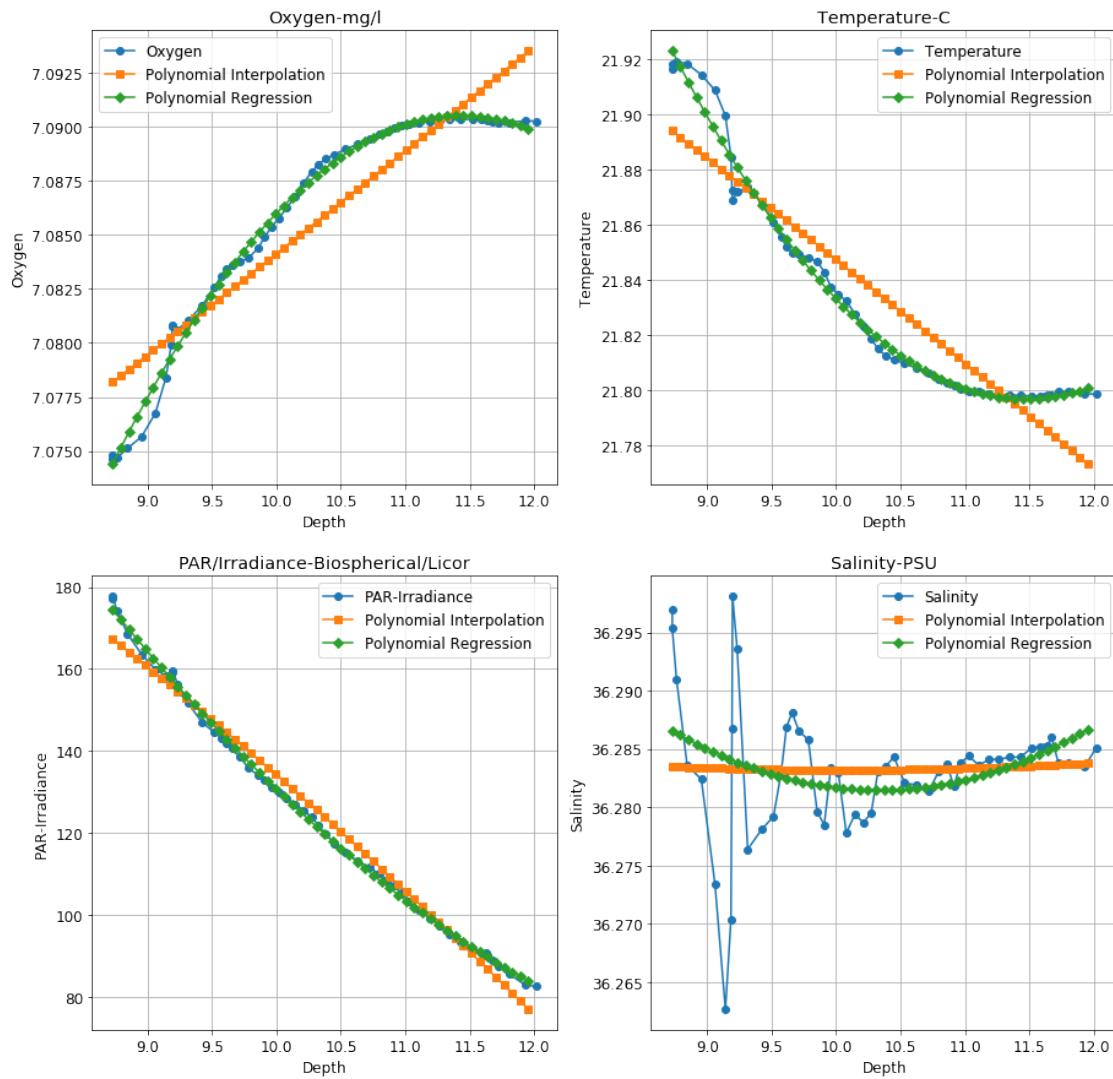
## Profile K79\_275



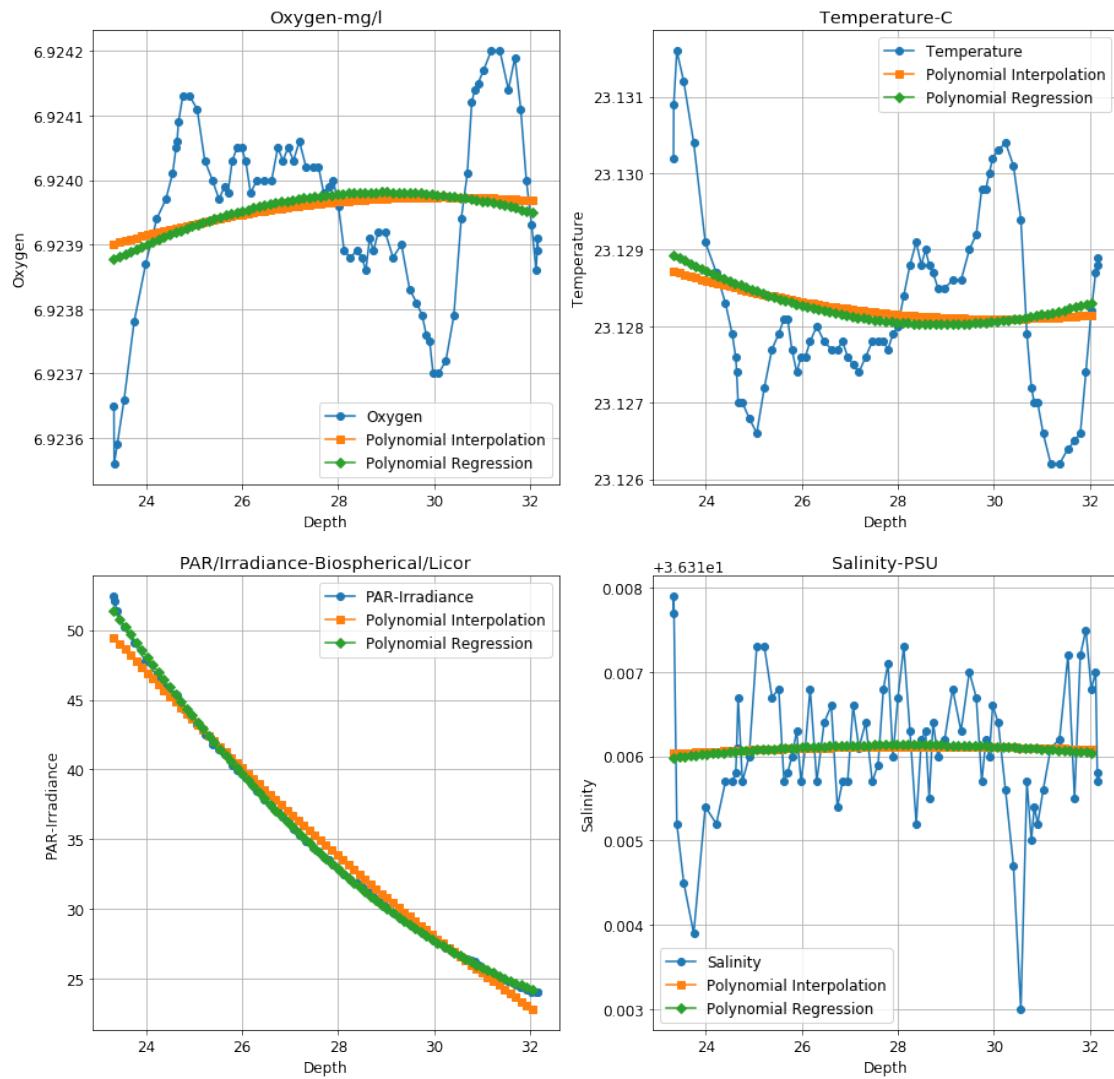
## Profile K79\_276



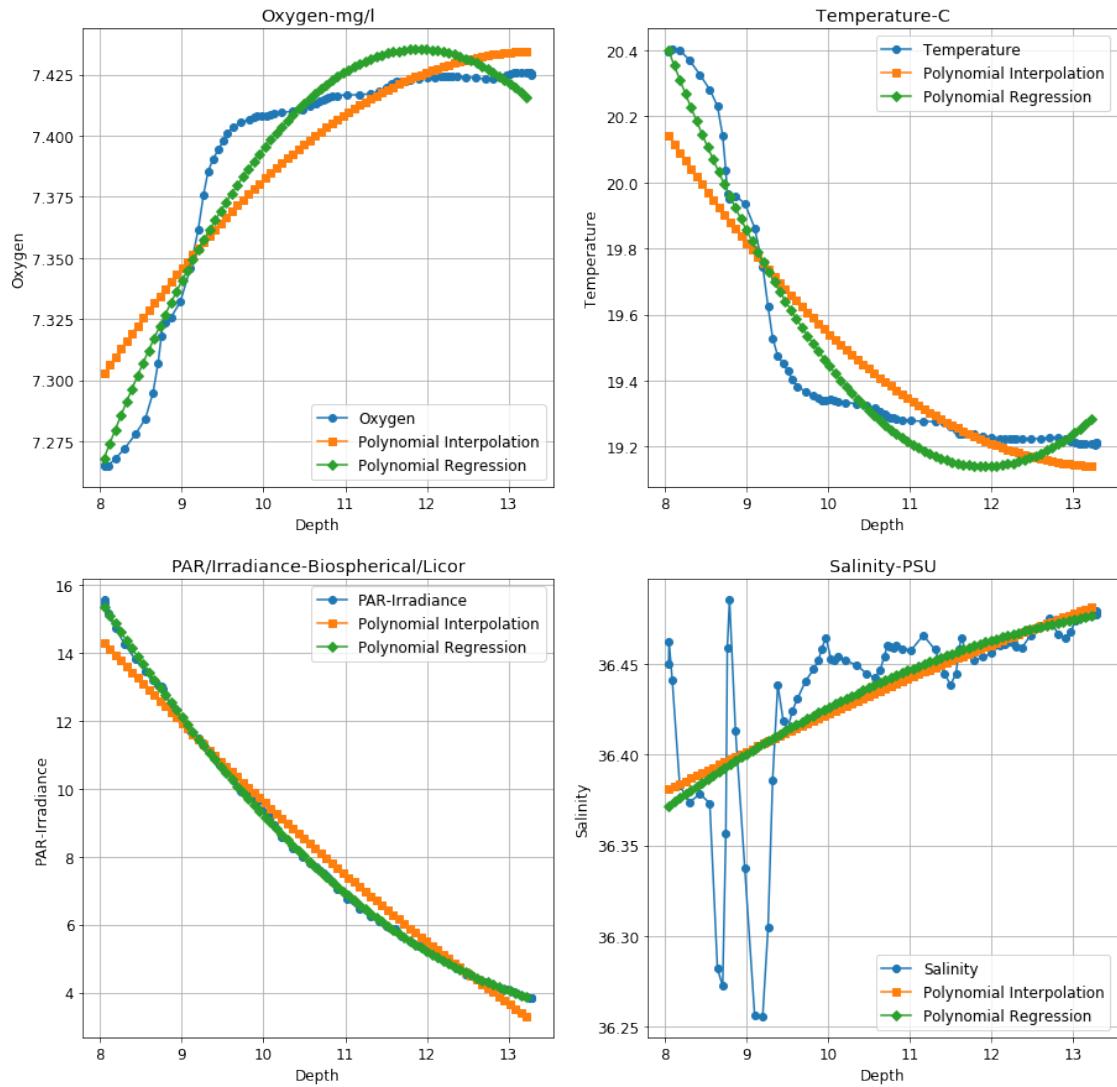
## Profile K79\_278



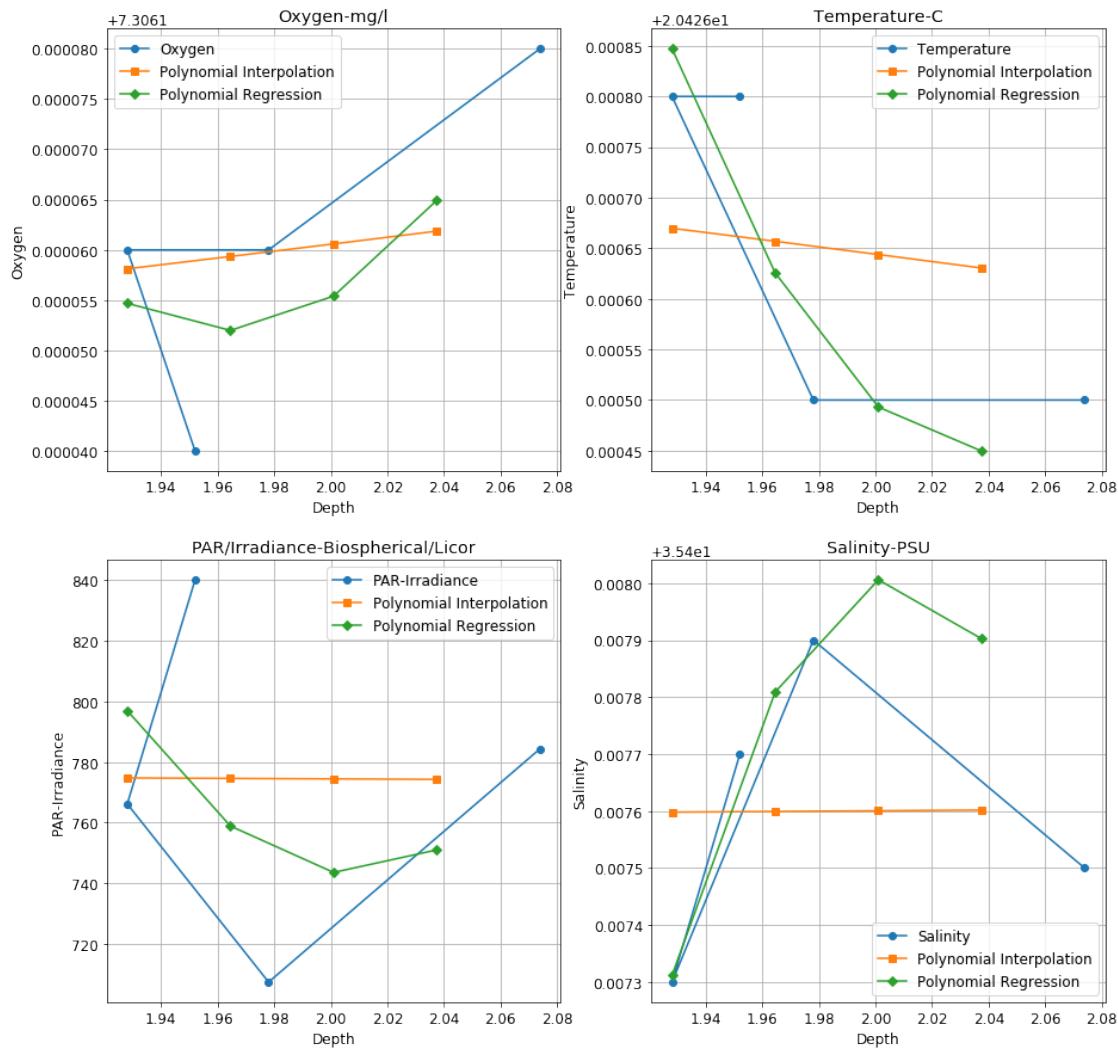
## Profile K79\_280



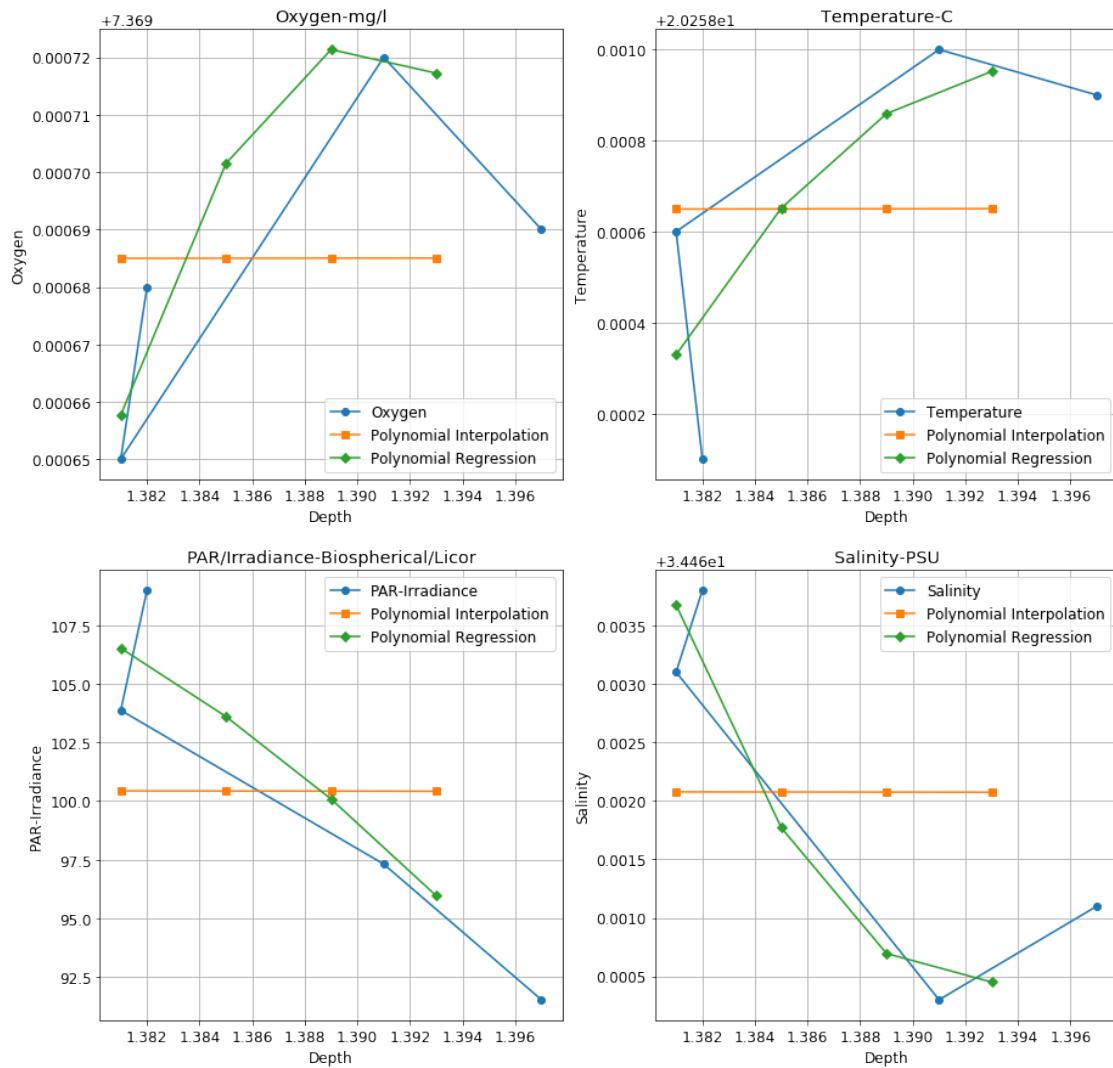
## Profile K79\_281



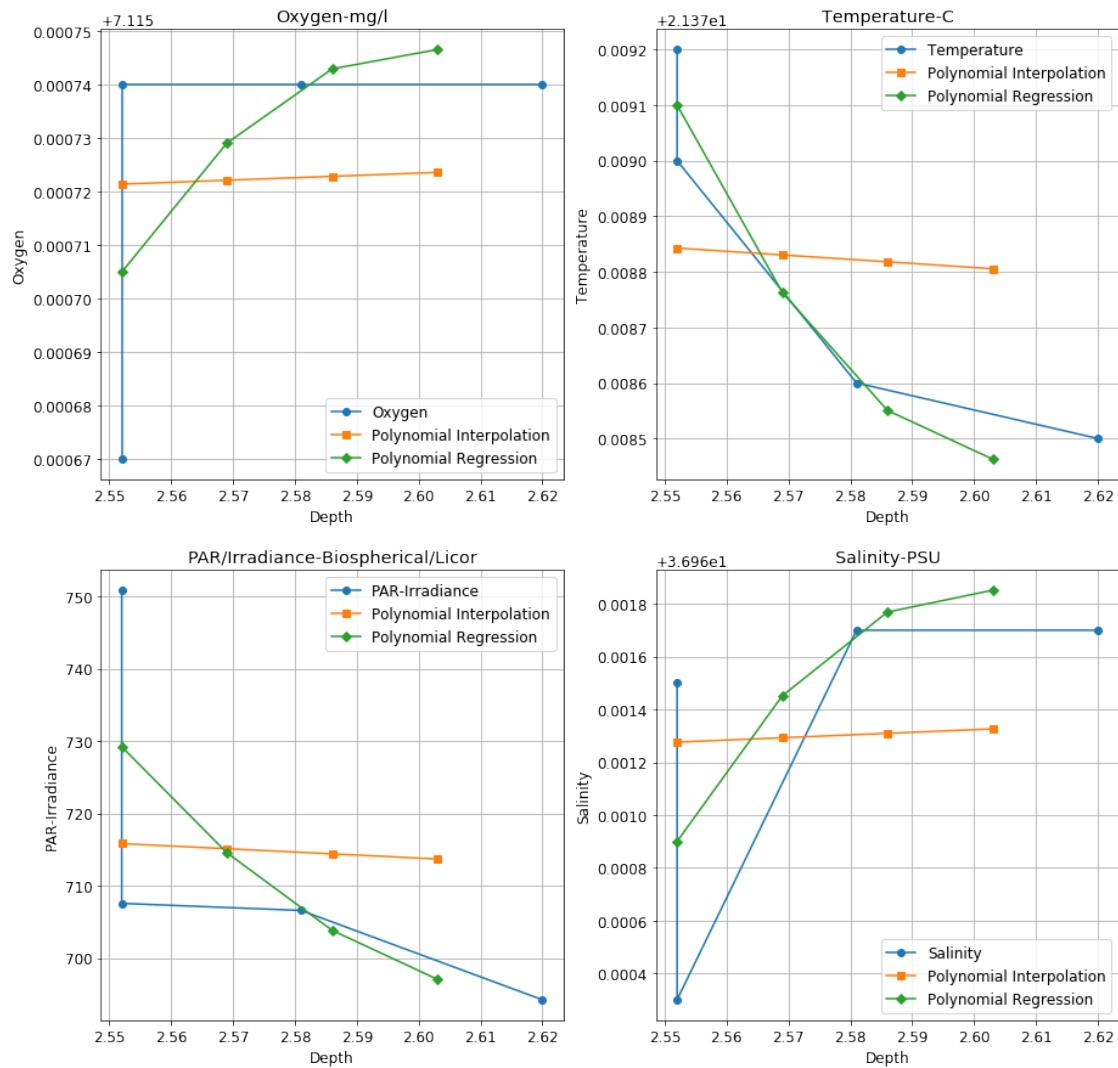
## Profile K79\_282



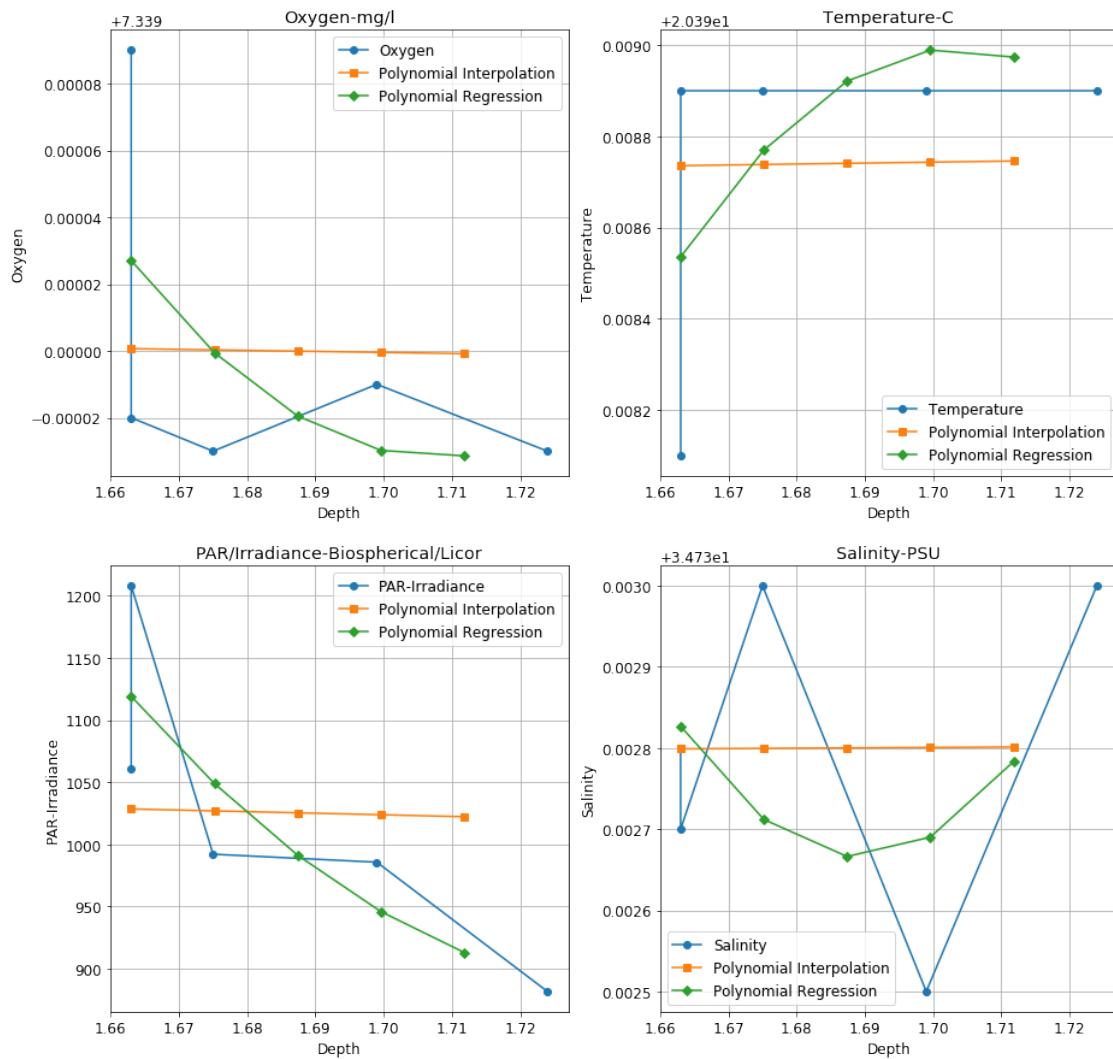
## Profile K79\_284



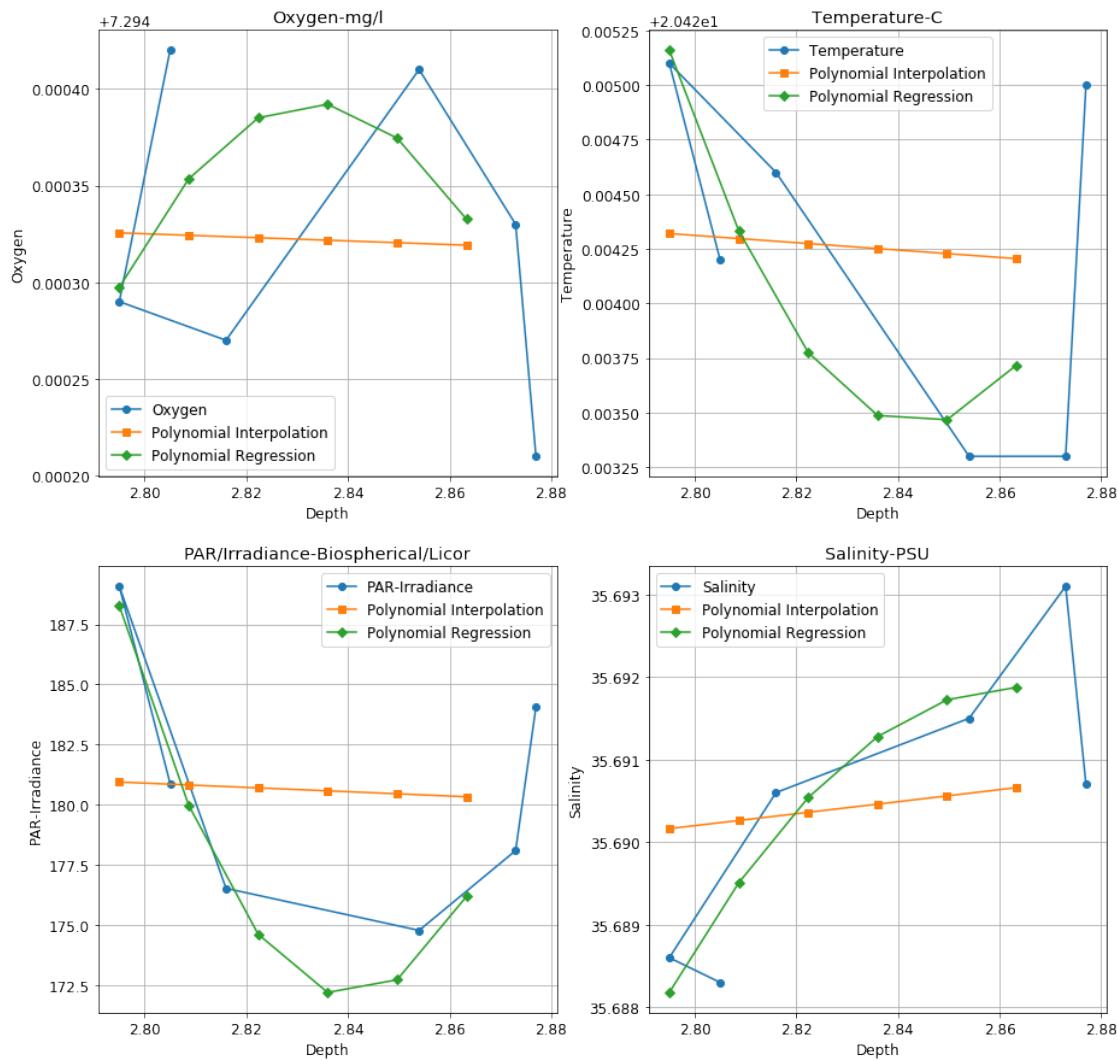
## Profile K79\_285



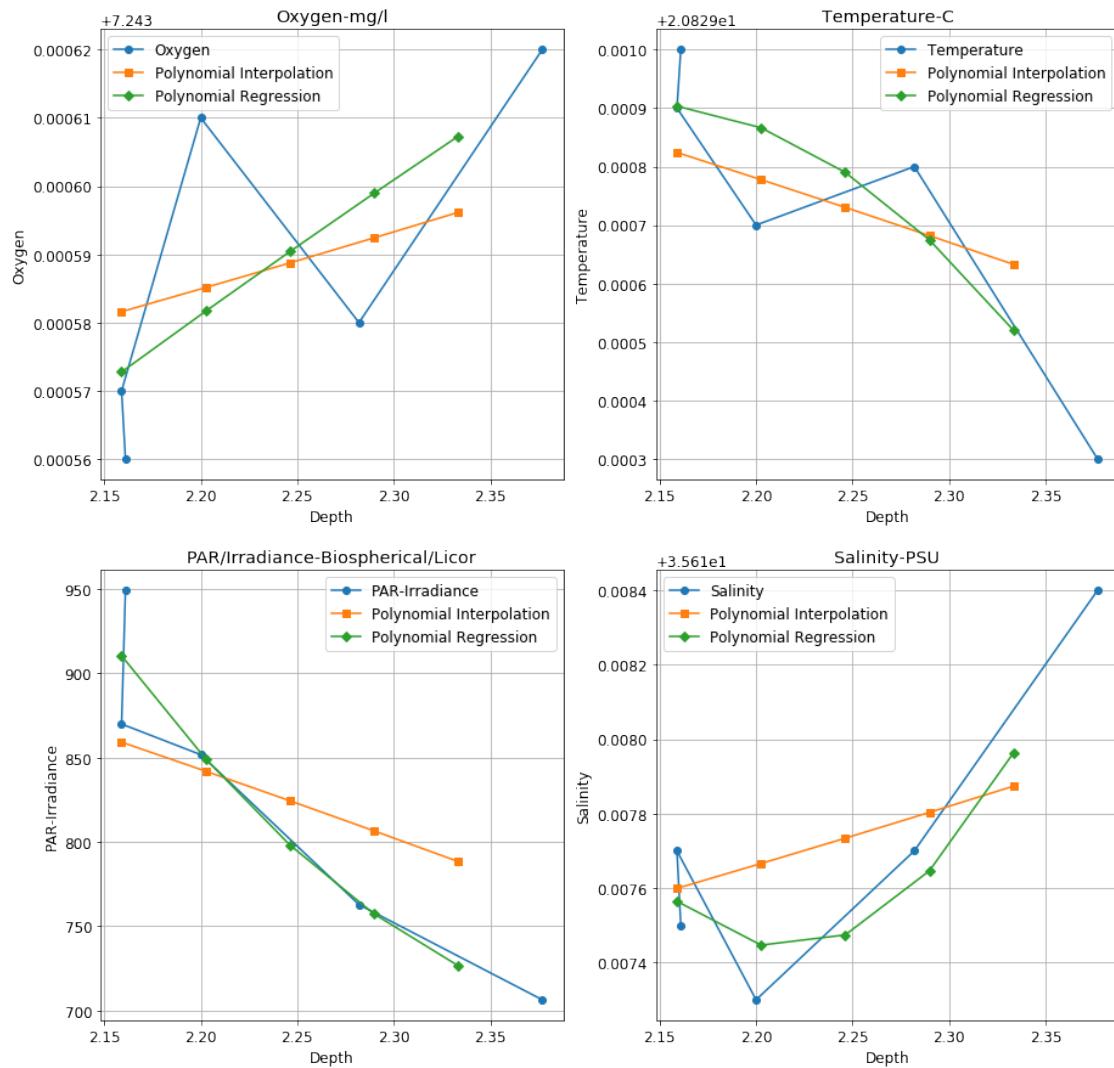
## Profile K79\_287



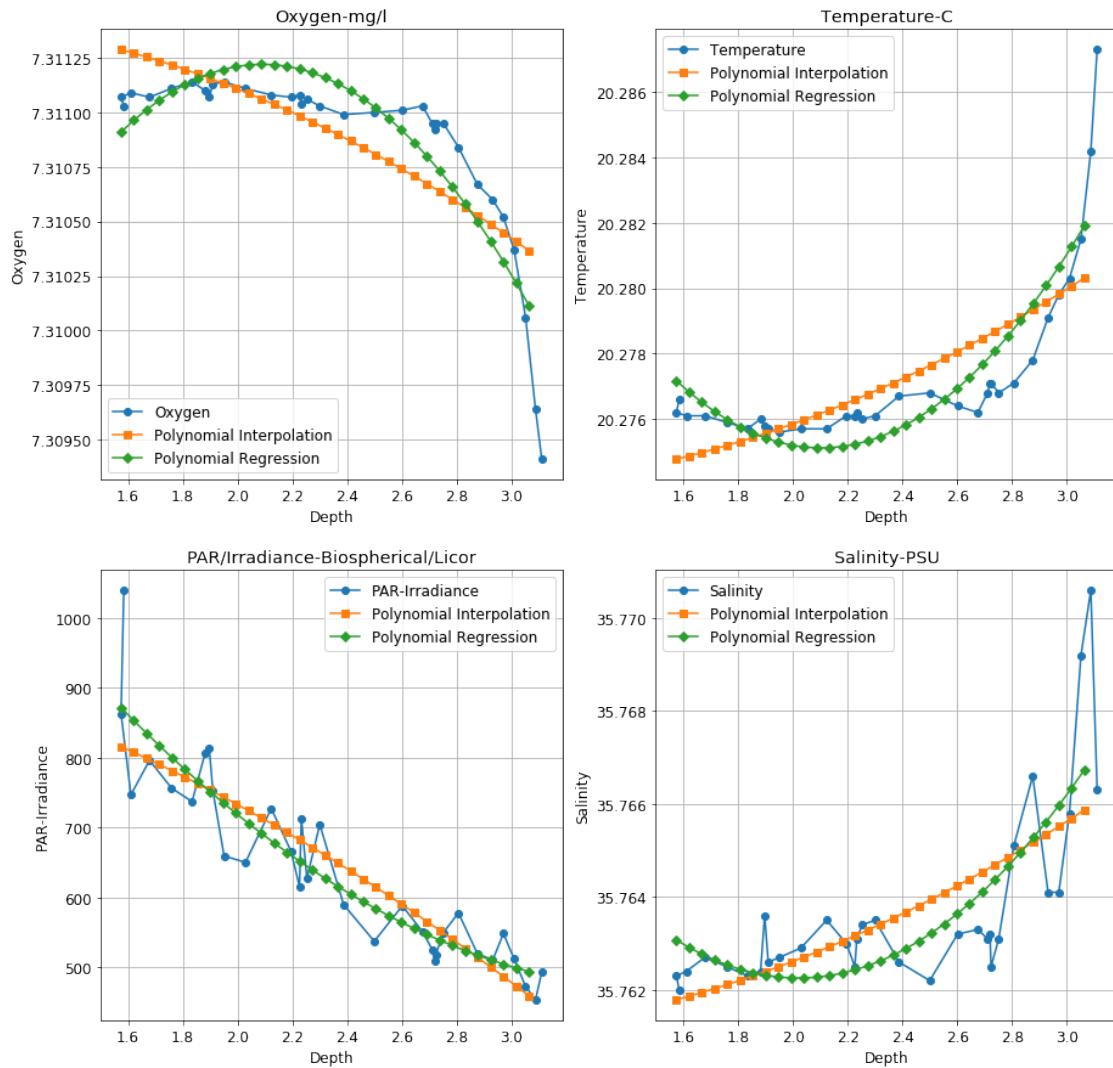
## Profile K79\_288



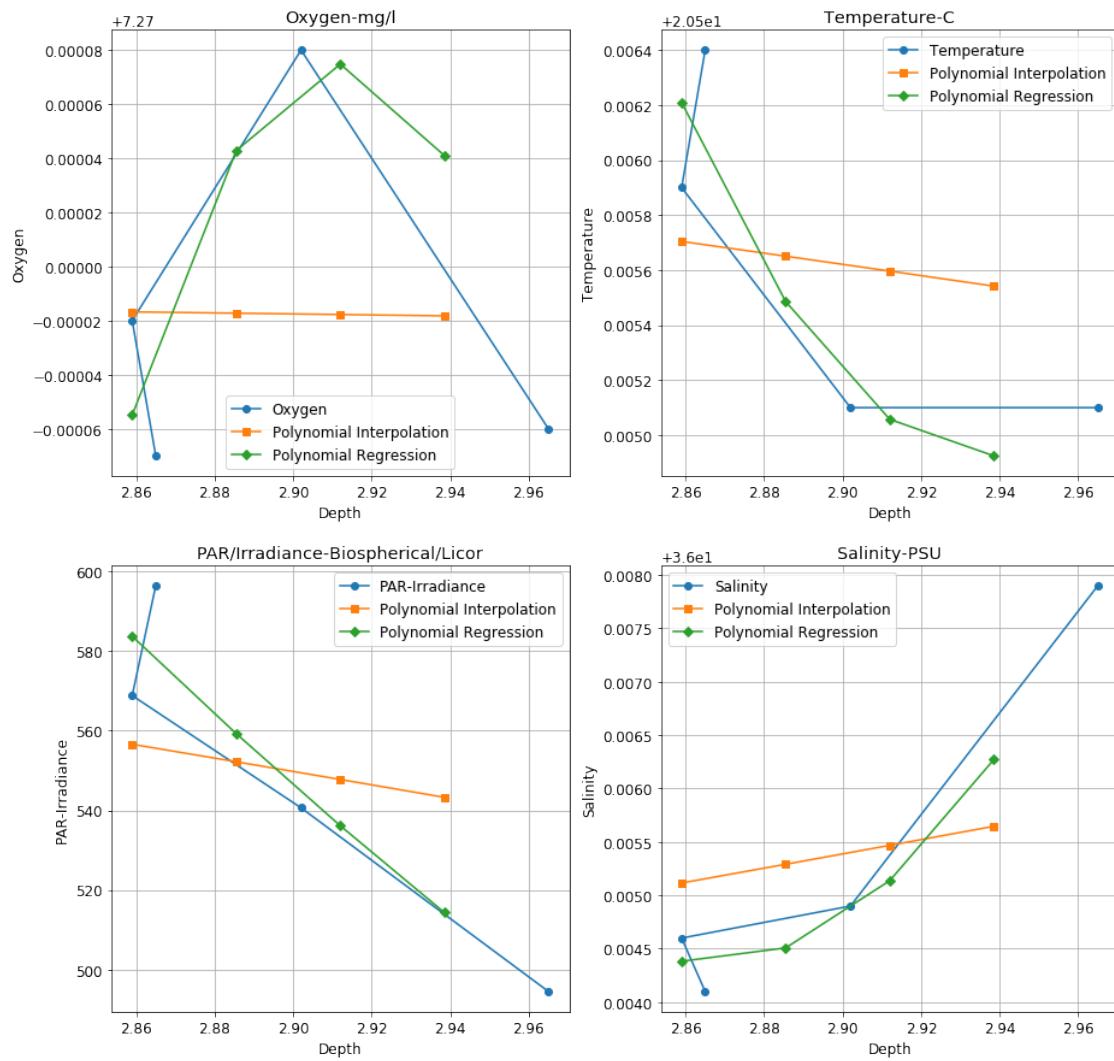
## Profile K79\_289



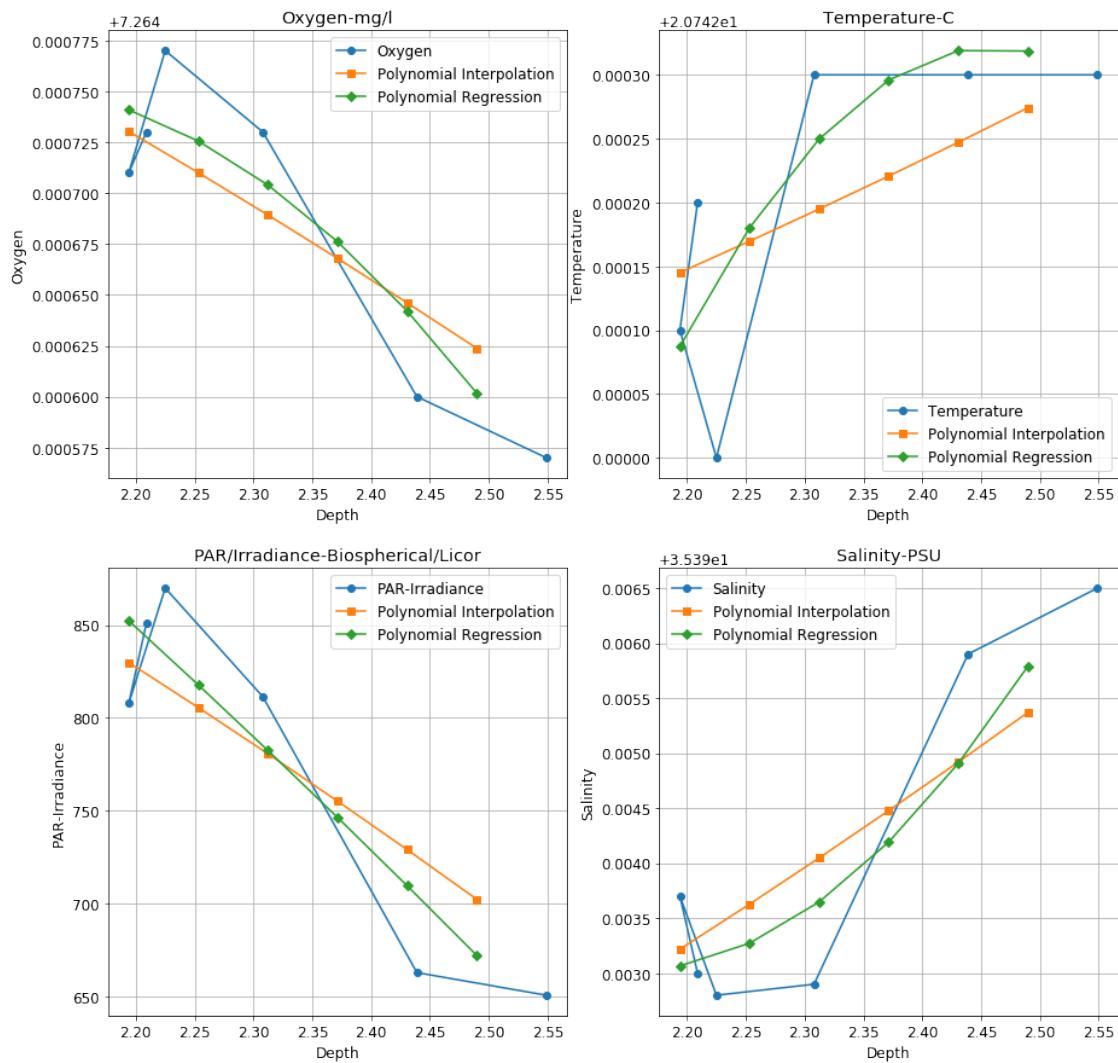
## Profile K79\_290



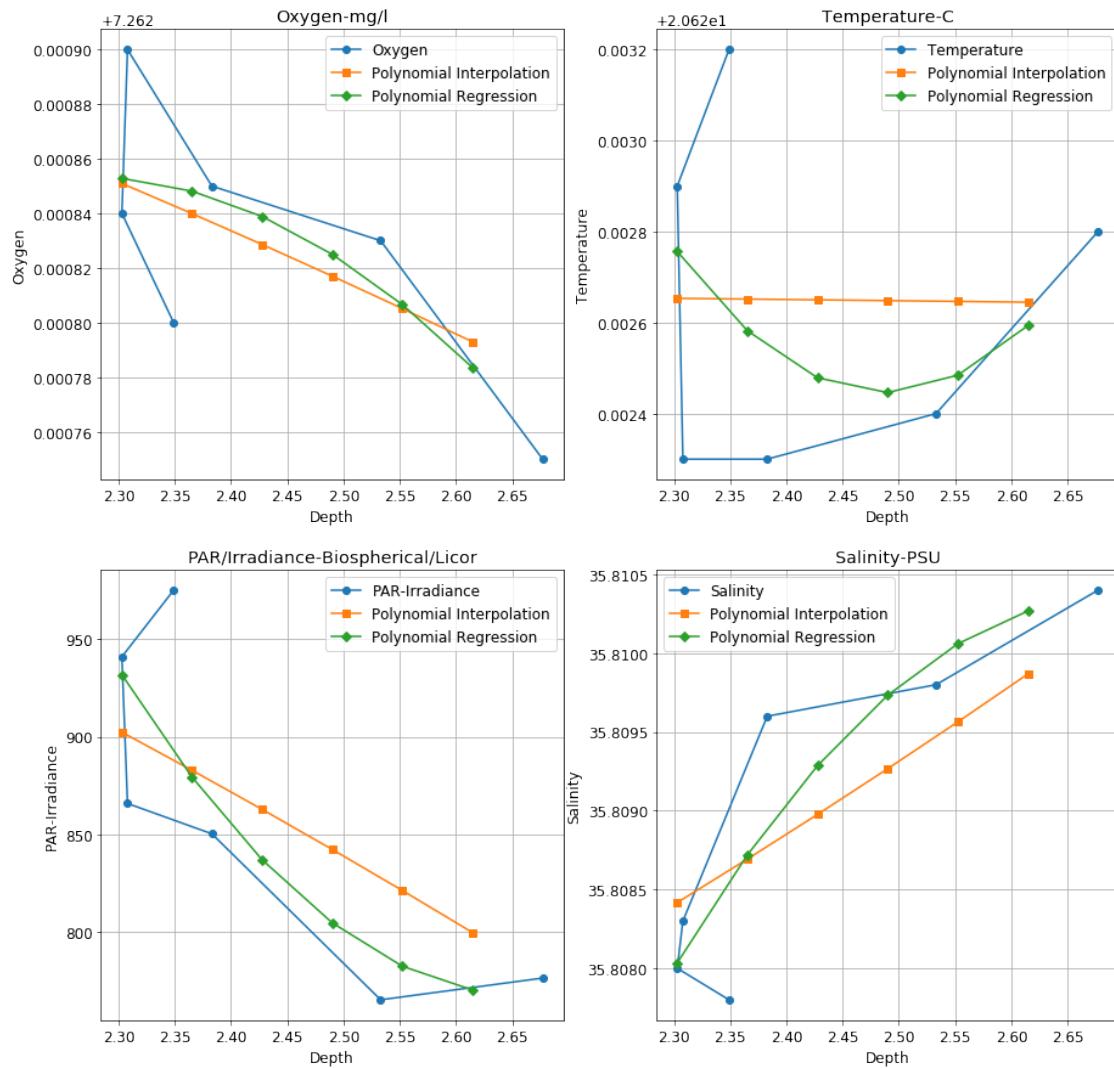
## Profile K79\_291



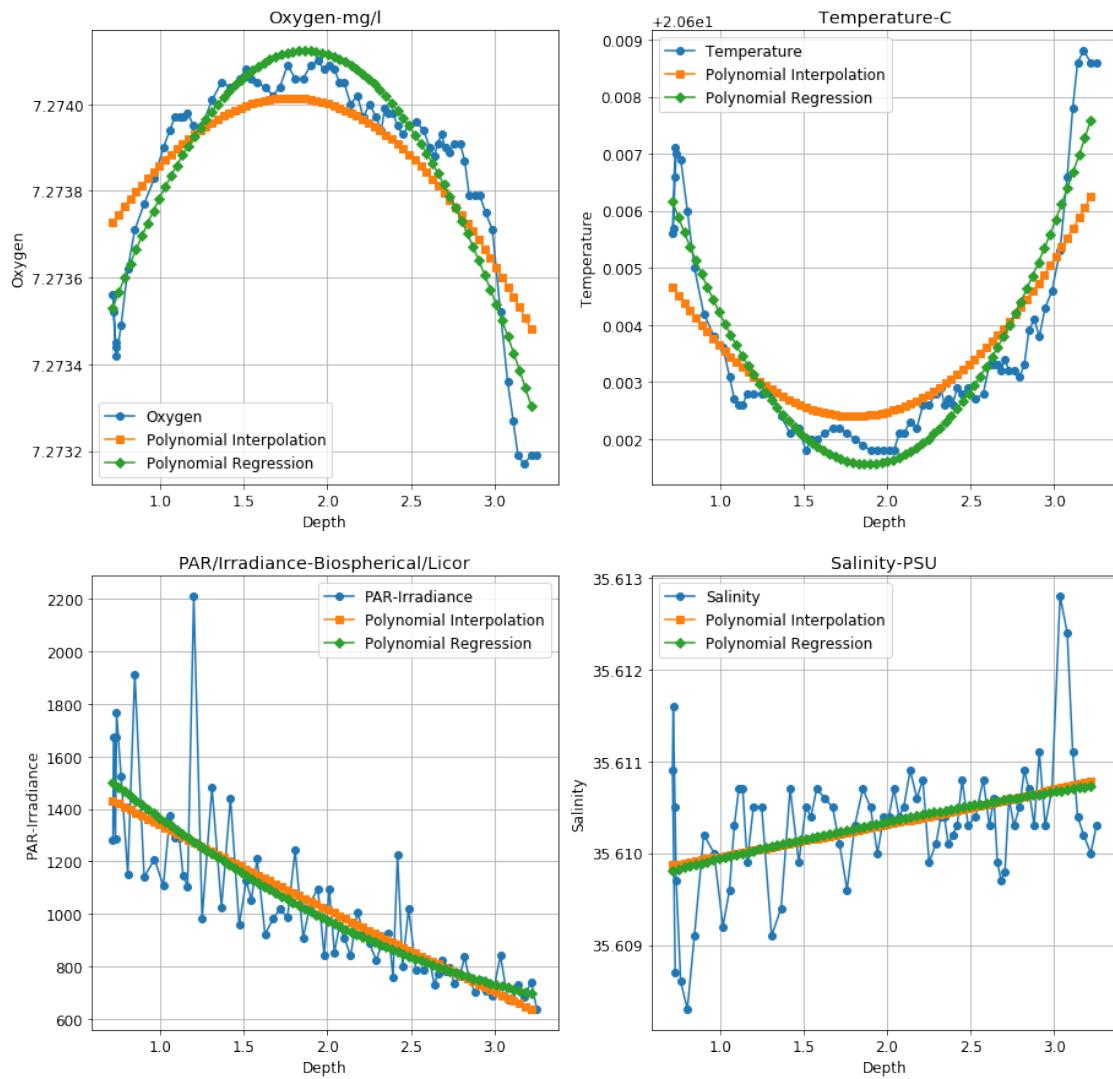
## Profile K79\_292



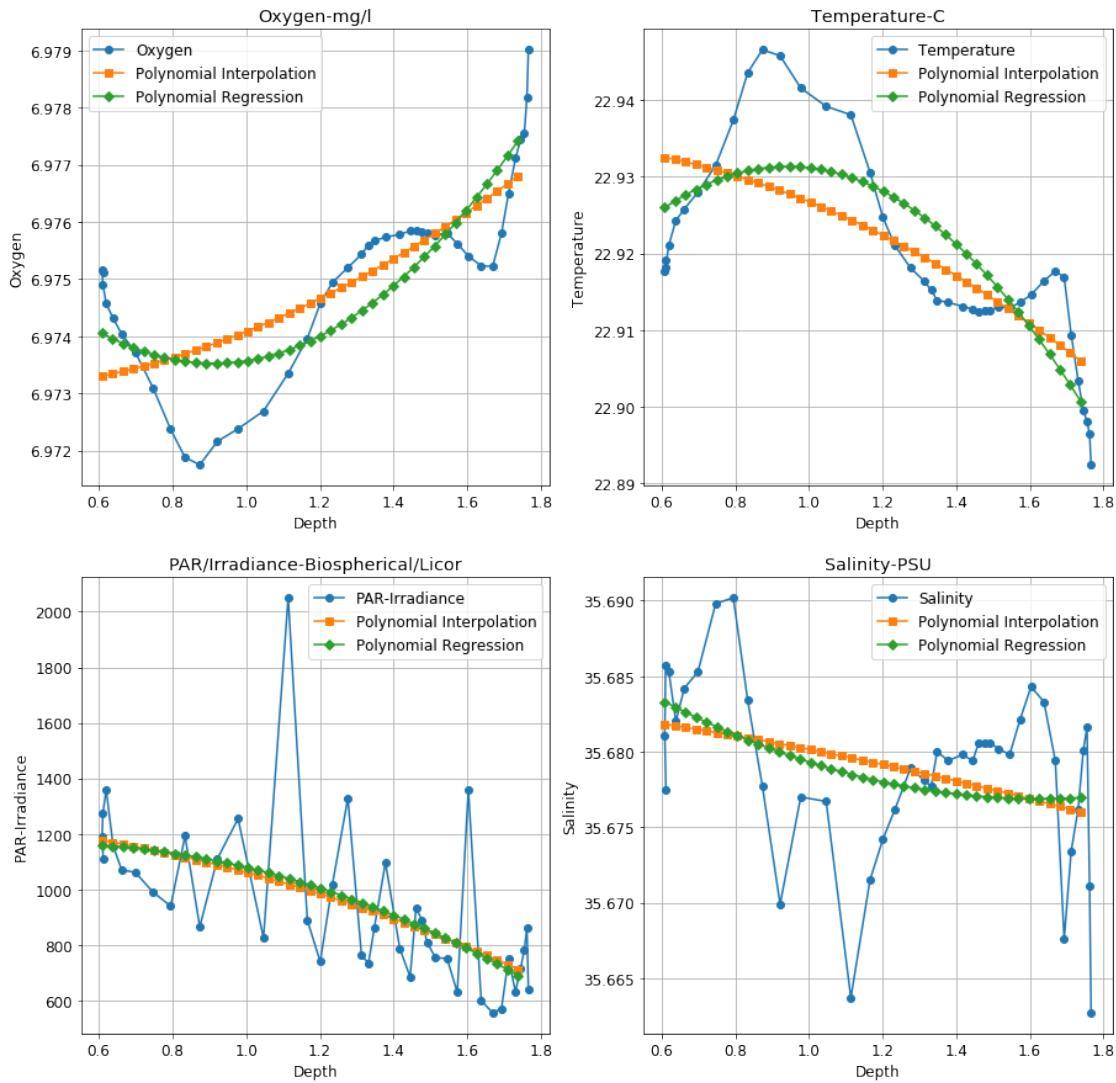
## Profile K79\_294



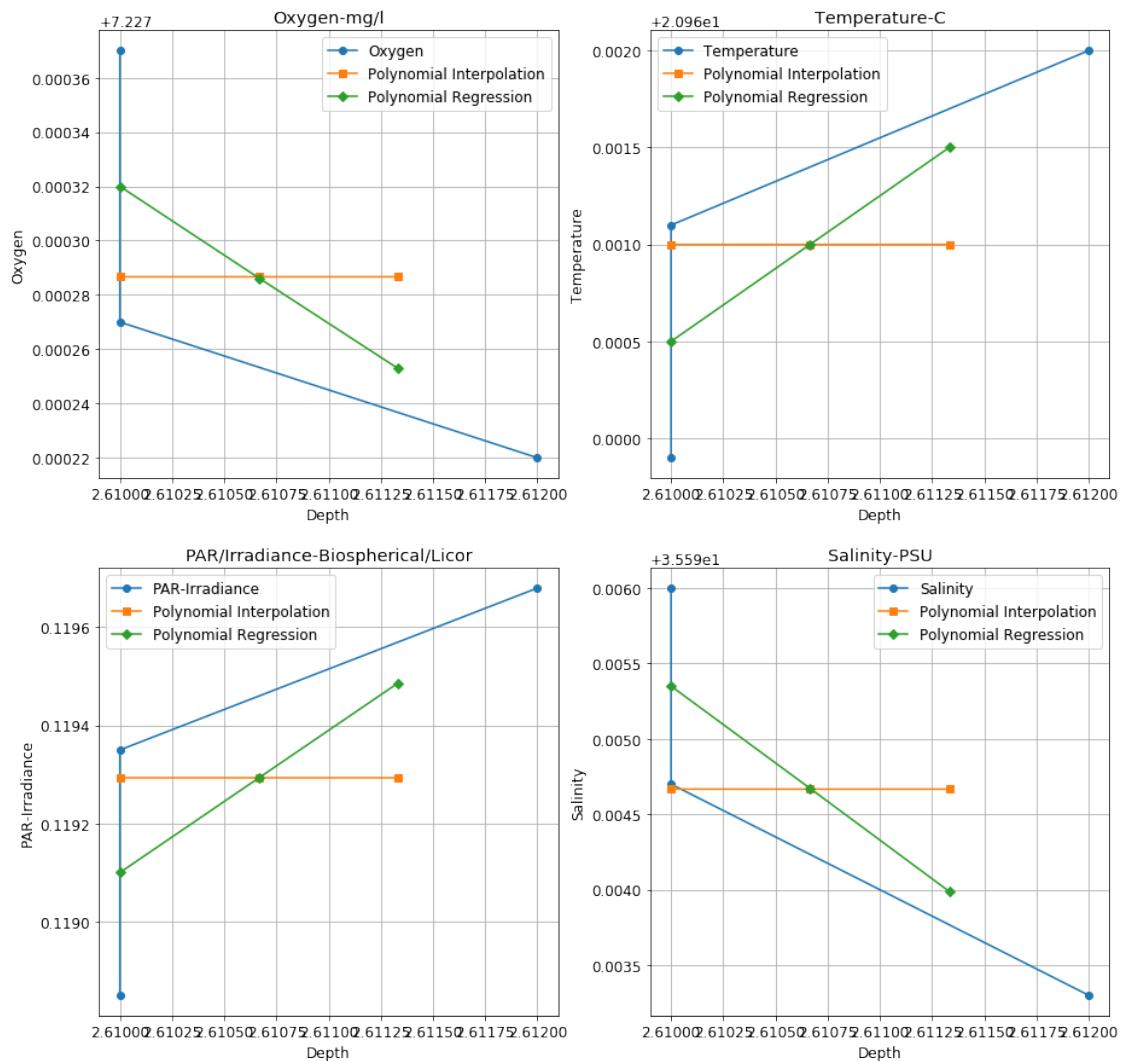
## Profile K79\_295



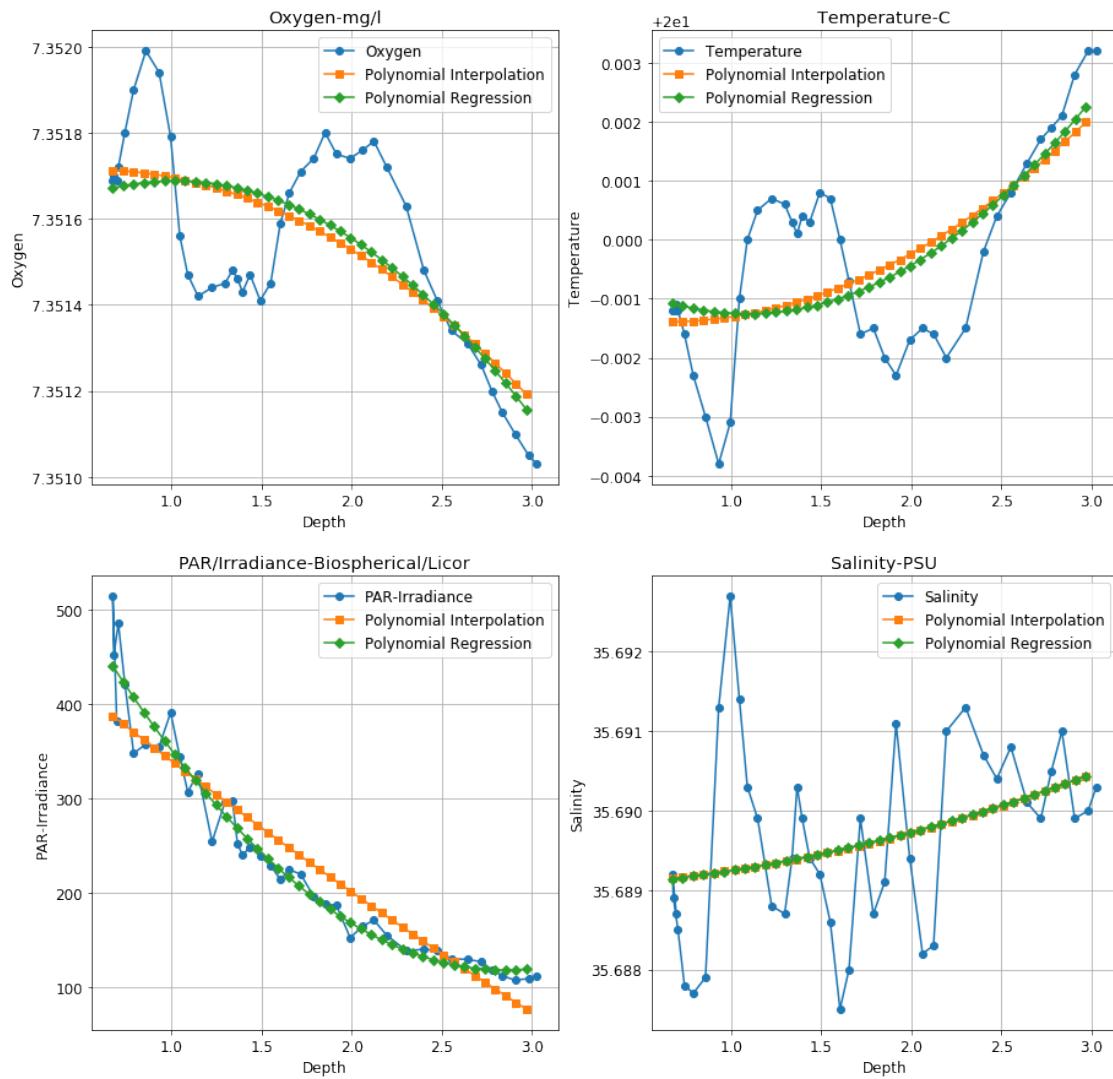
## Profile K79\_296



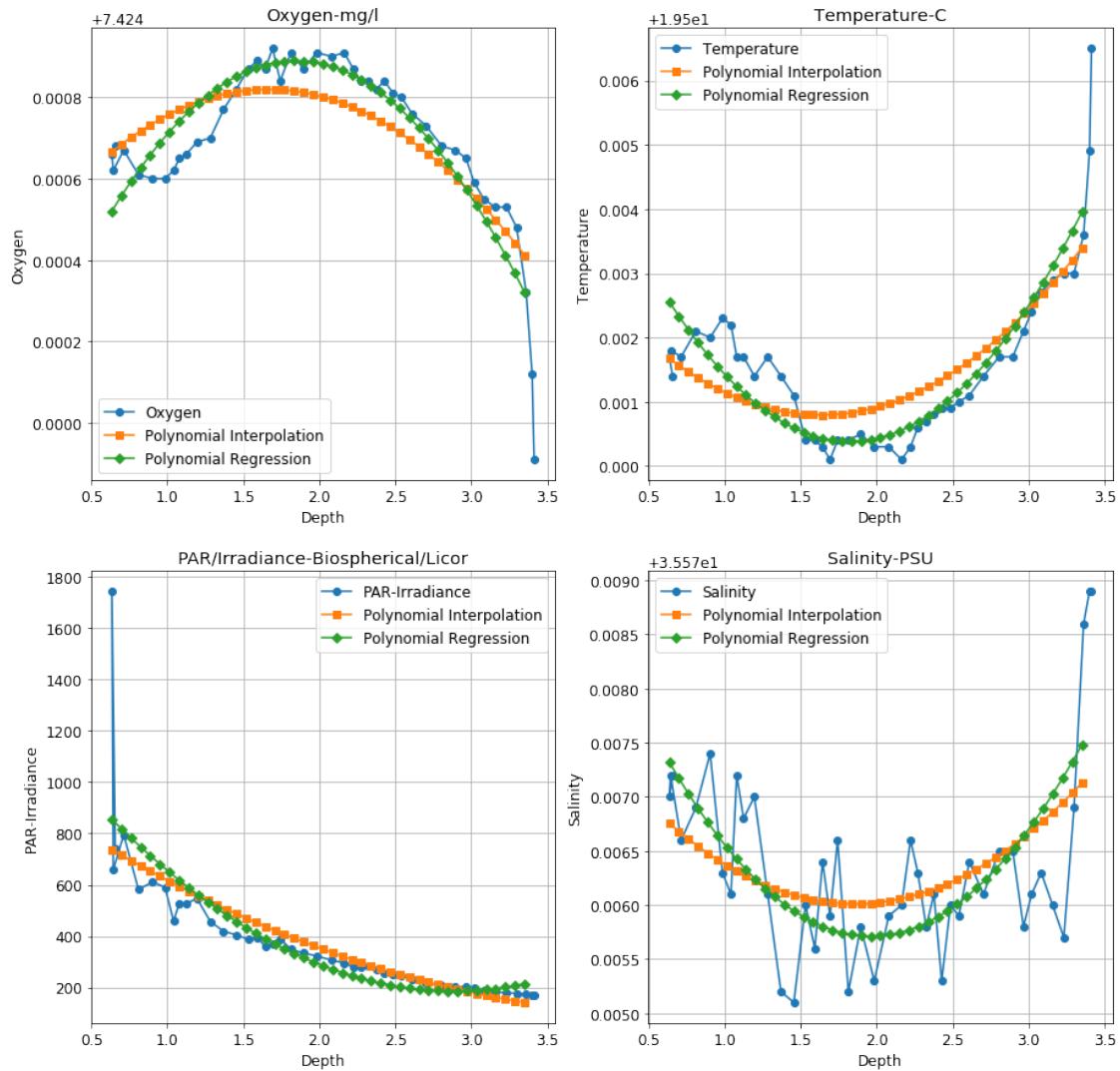
## Profile K79\_301



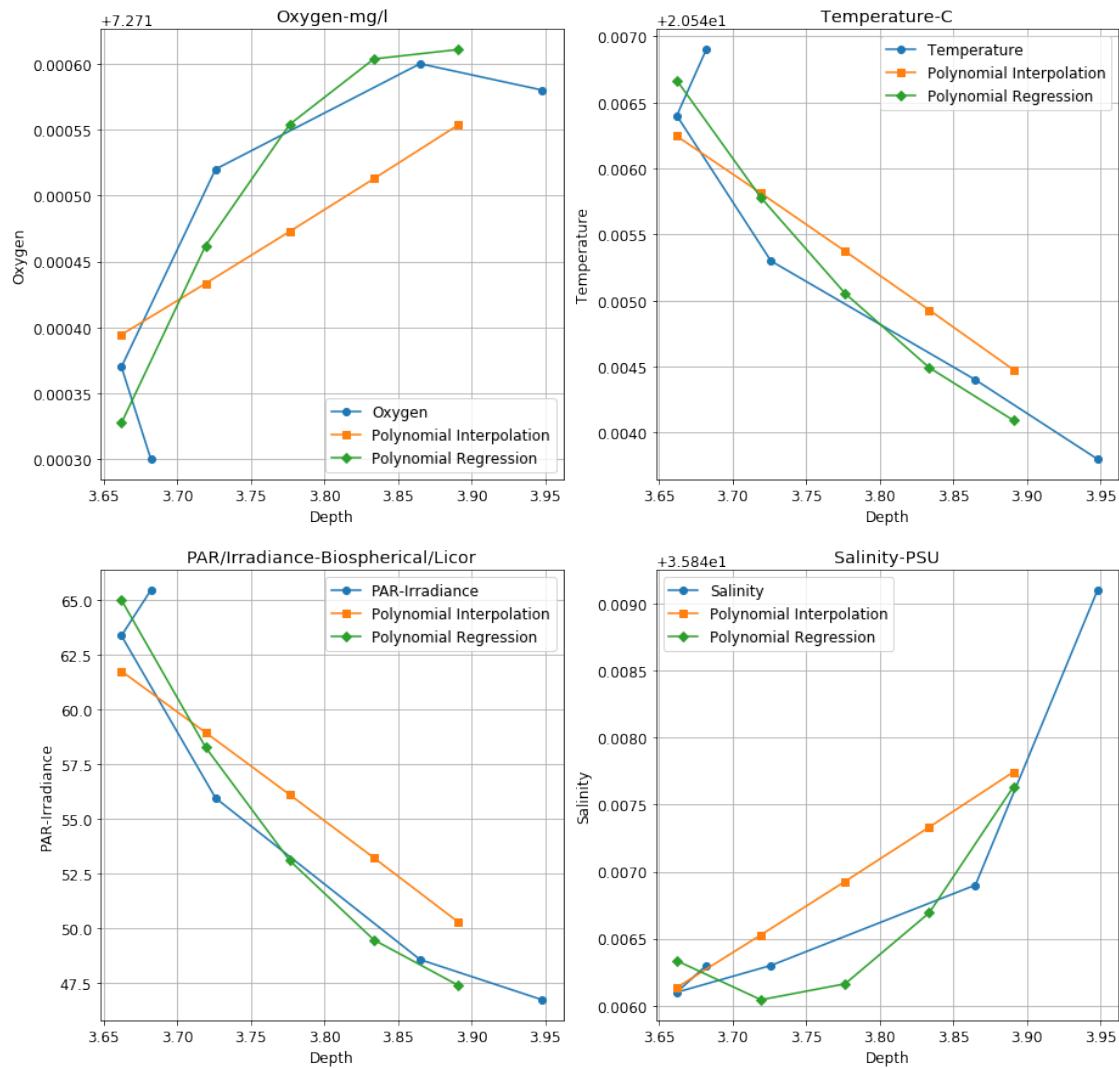
## Profile K79\_302



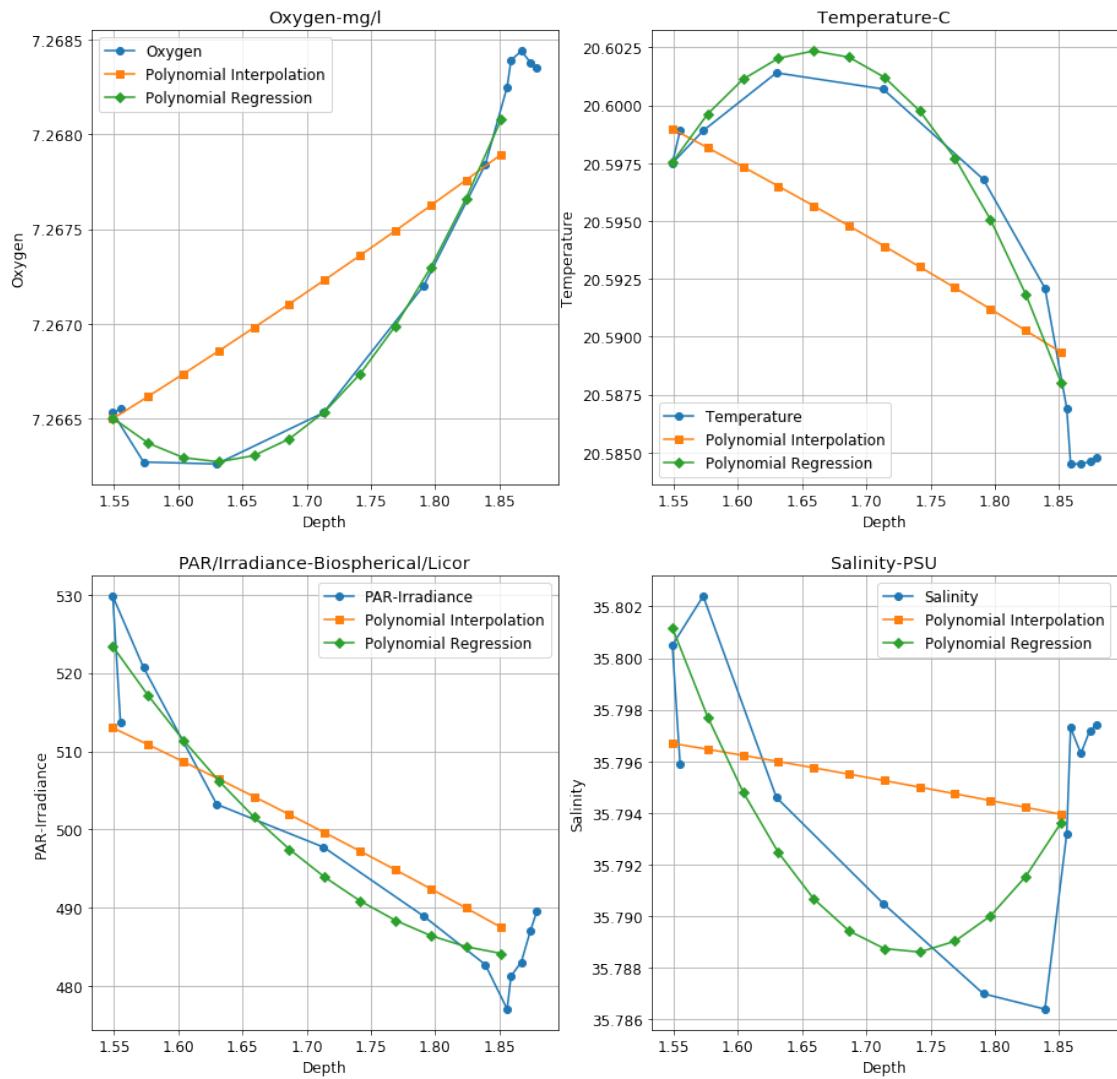
## Profile K79\_305



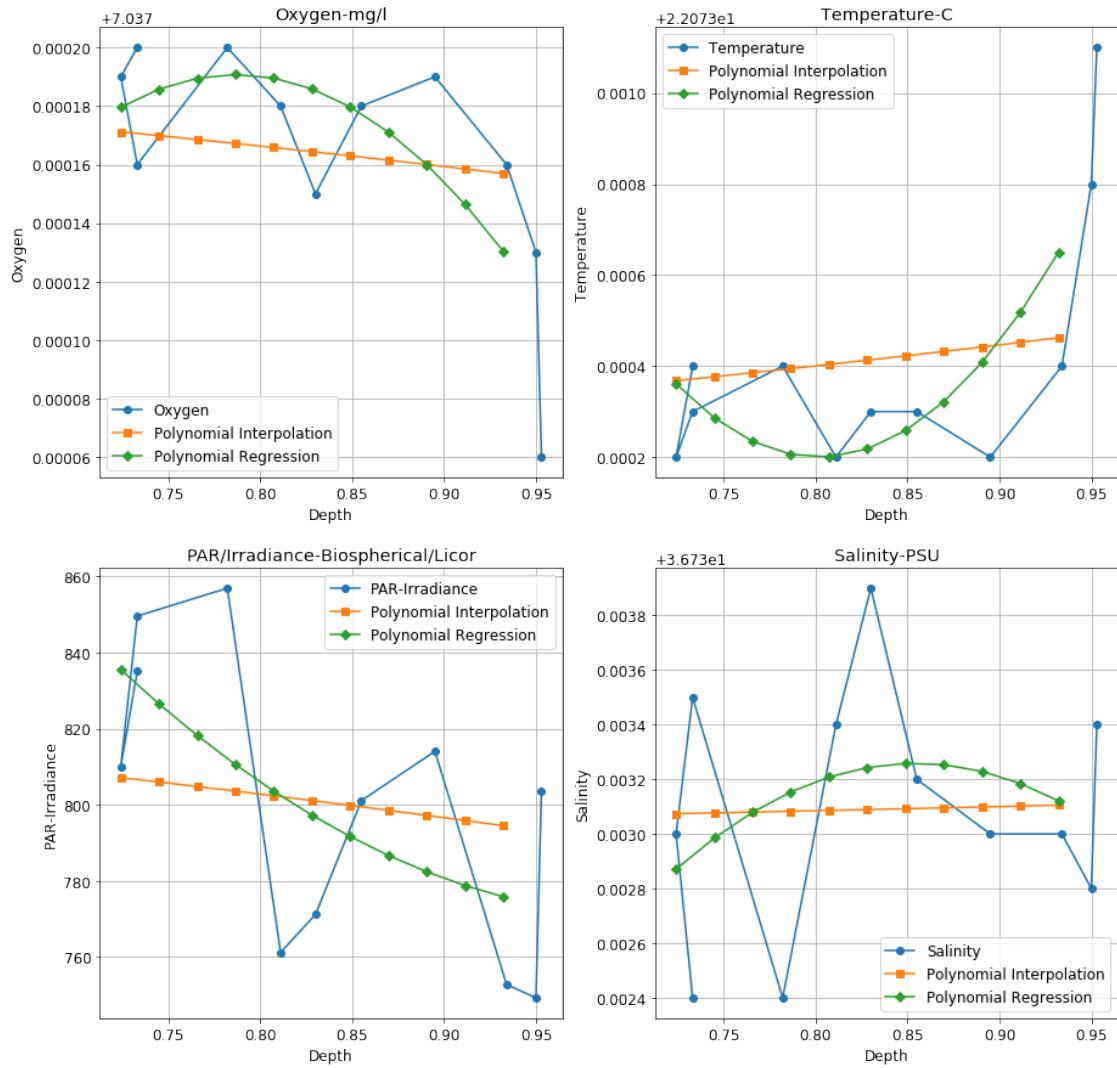
## Profile K79\_307



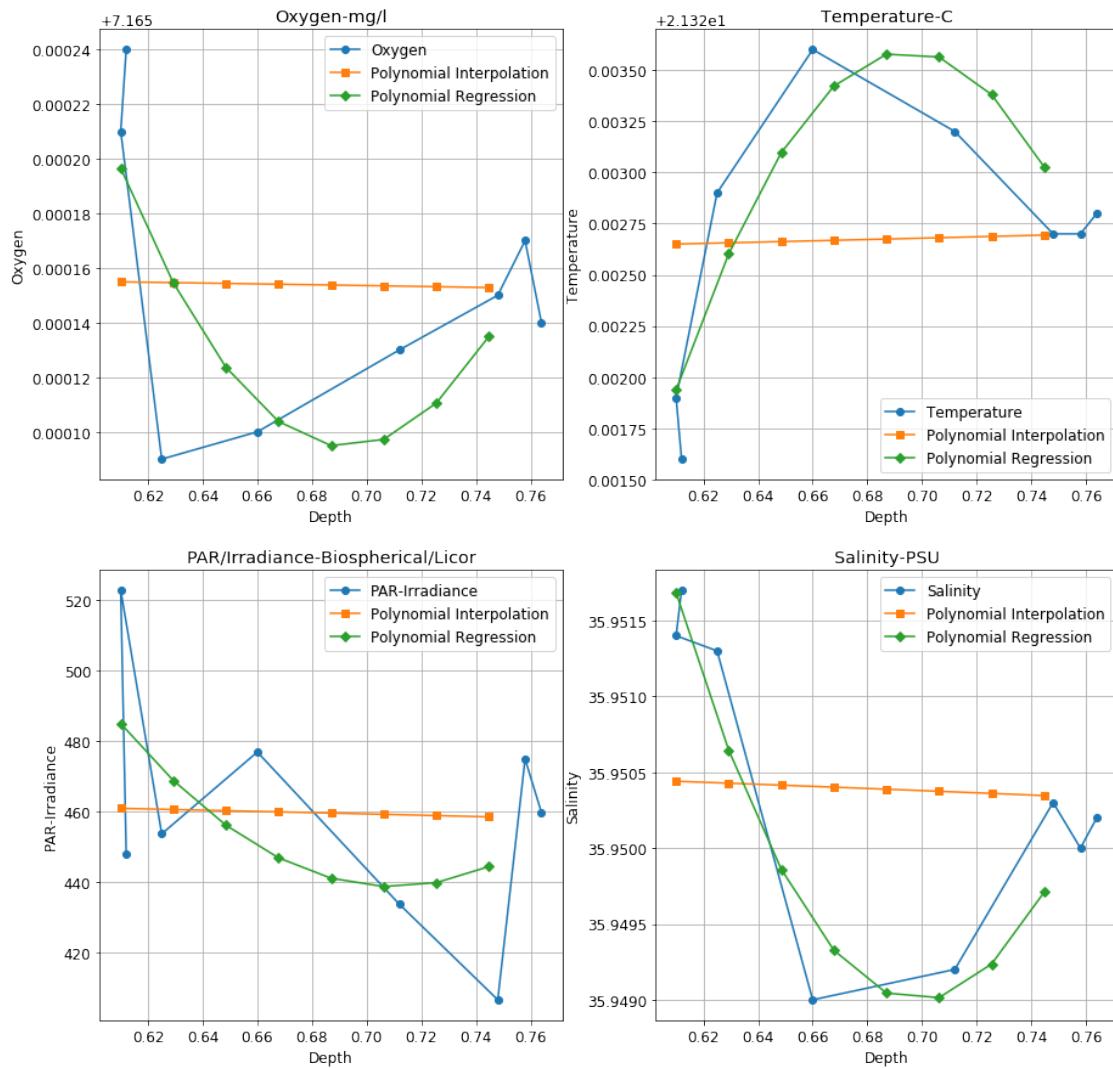
## Profile K79\_309



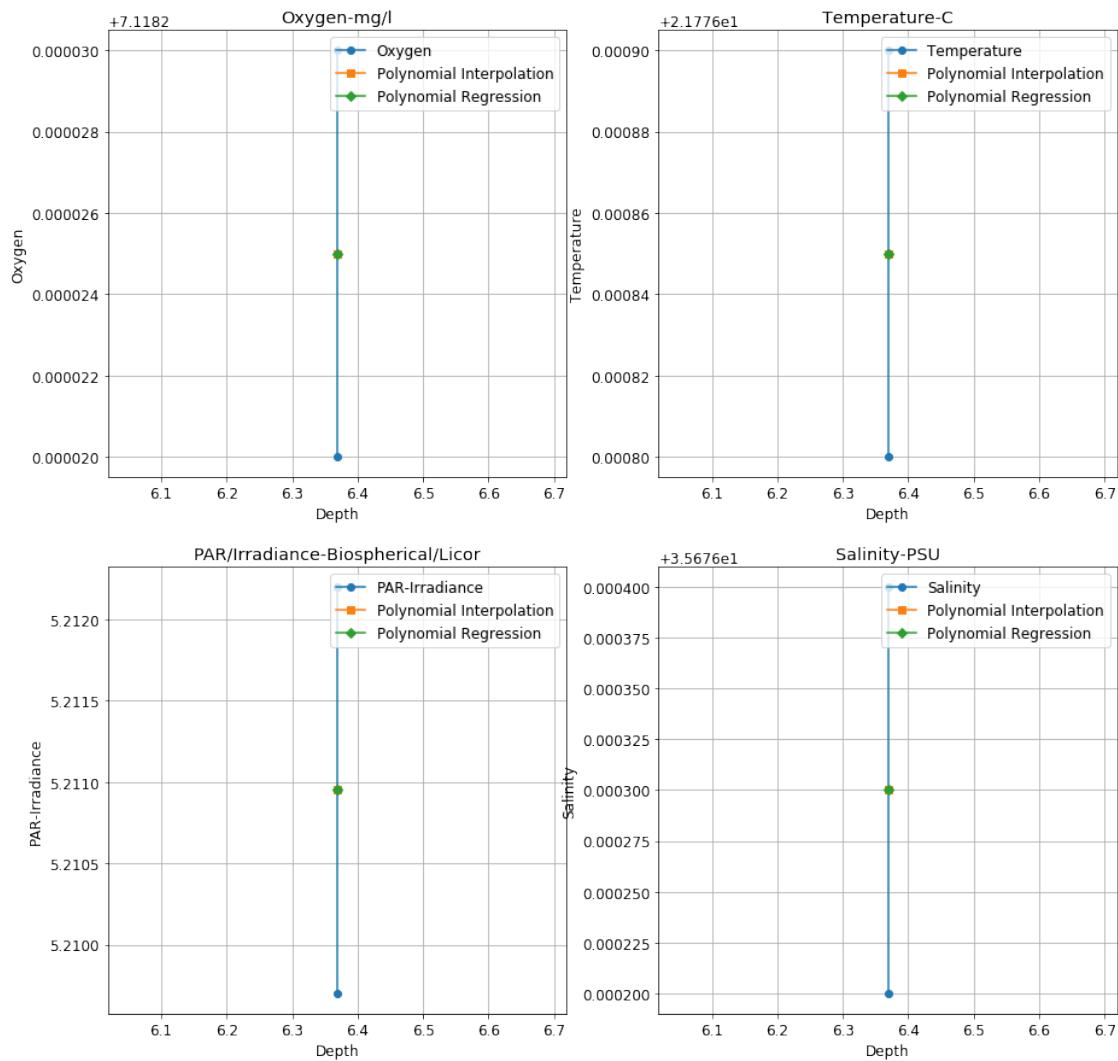
## Profile K79\_310



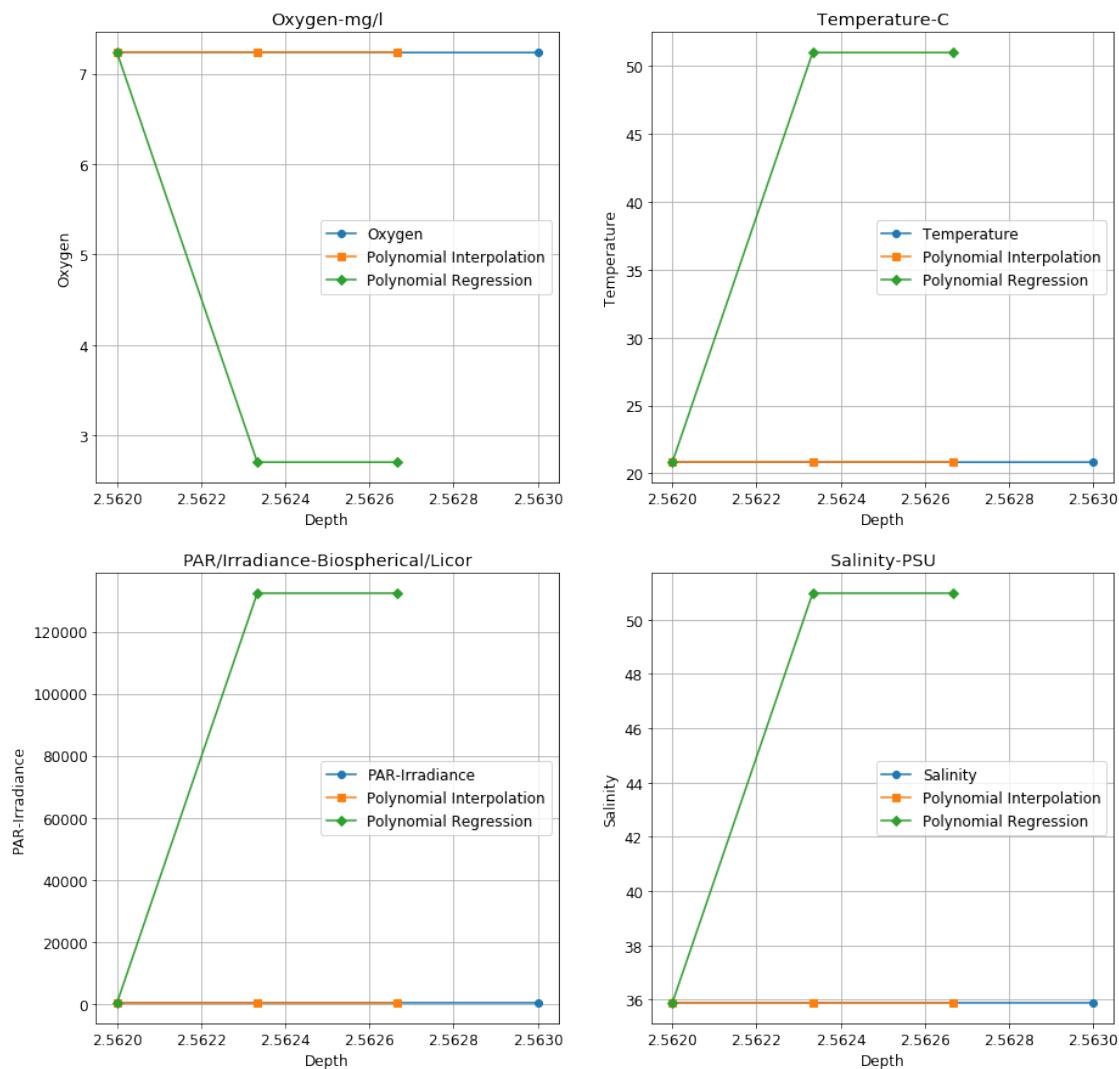
## Profile K79\_312



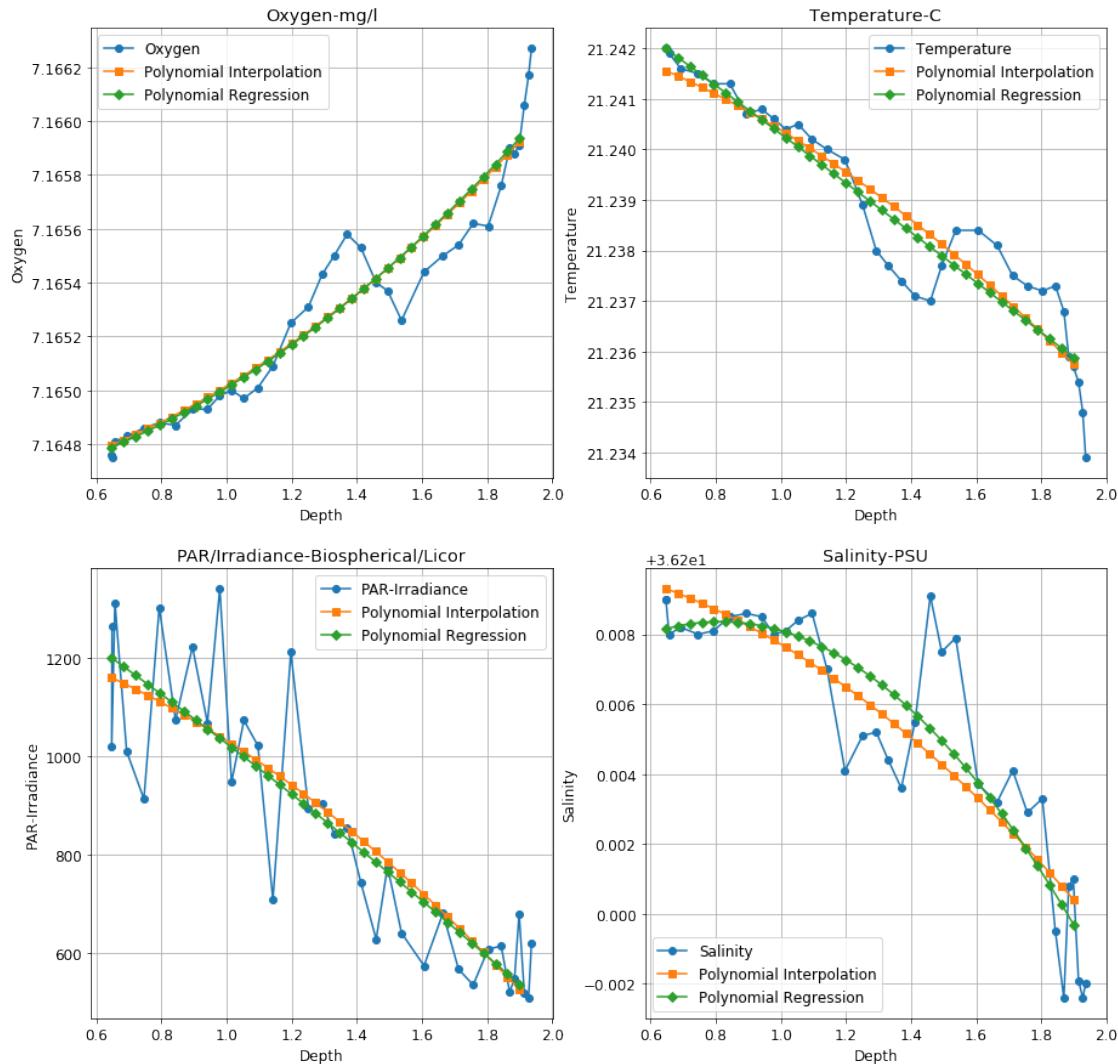
## Profile K79\_314



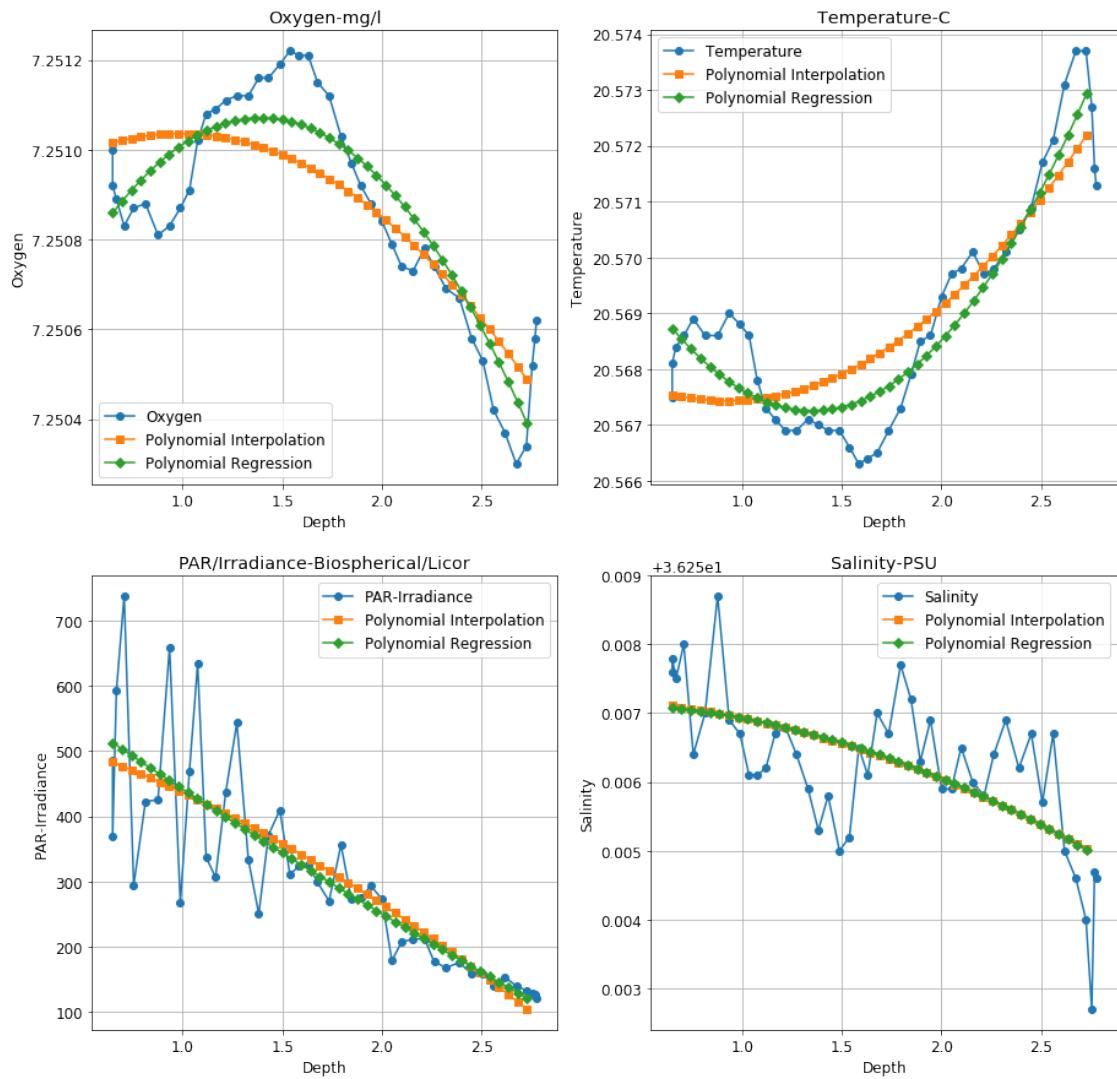
## Profile K79\_315



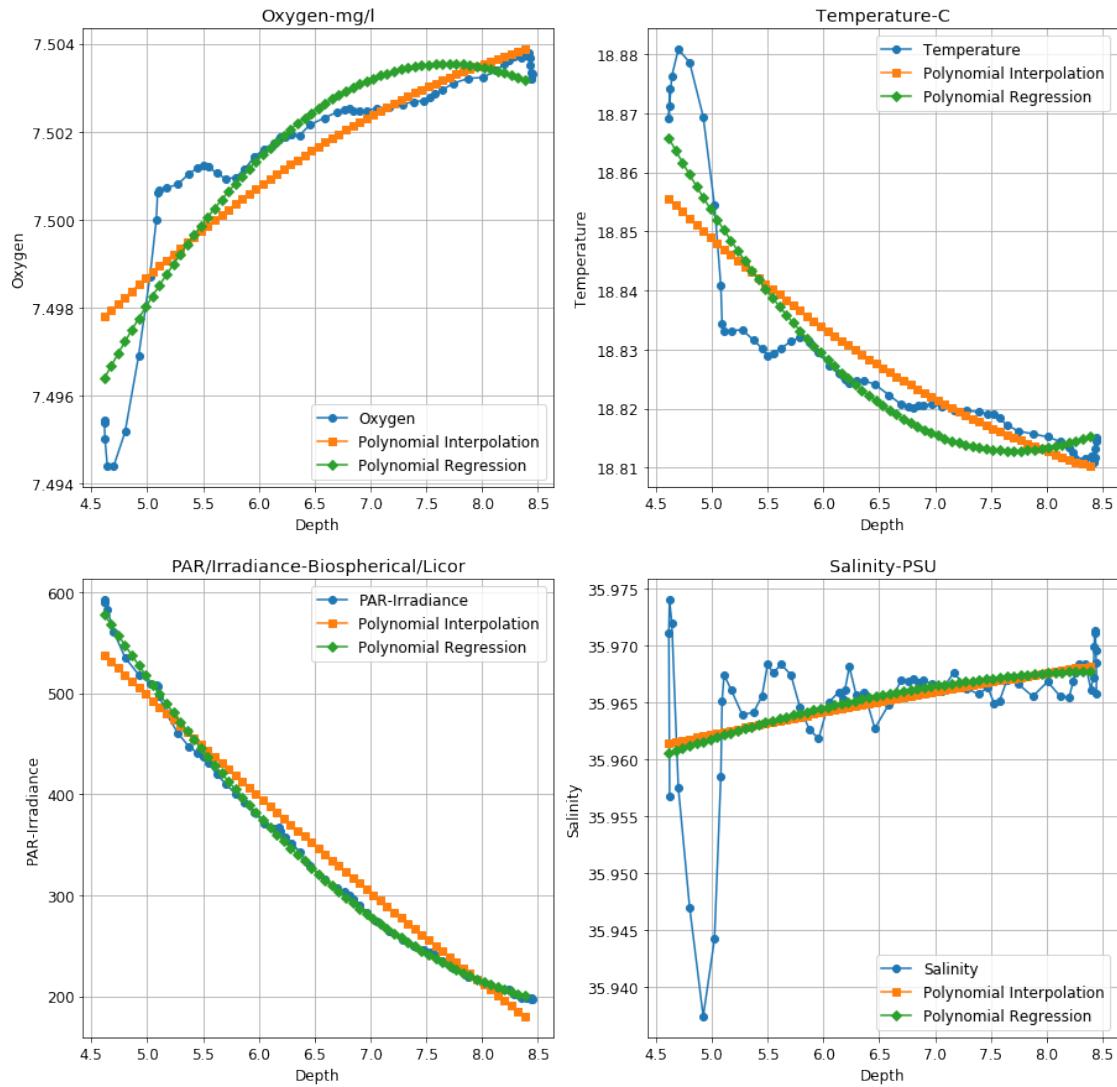
## Profile K79\_316



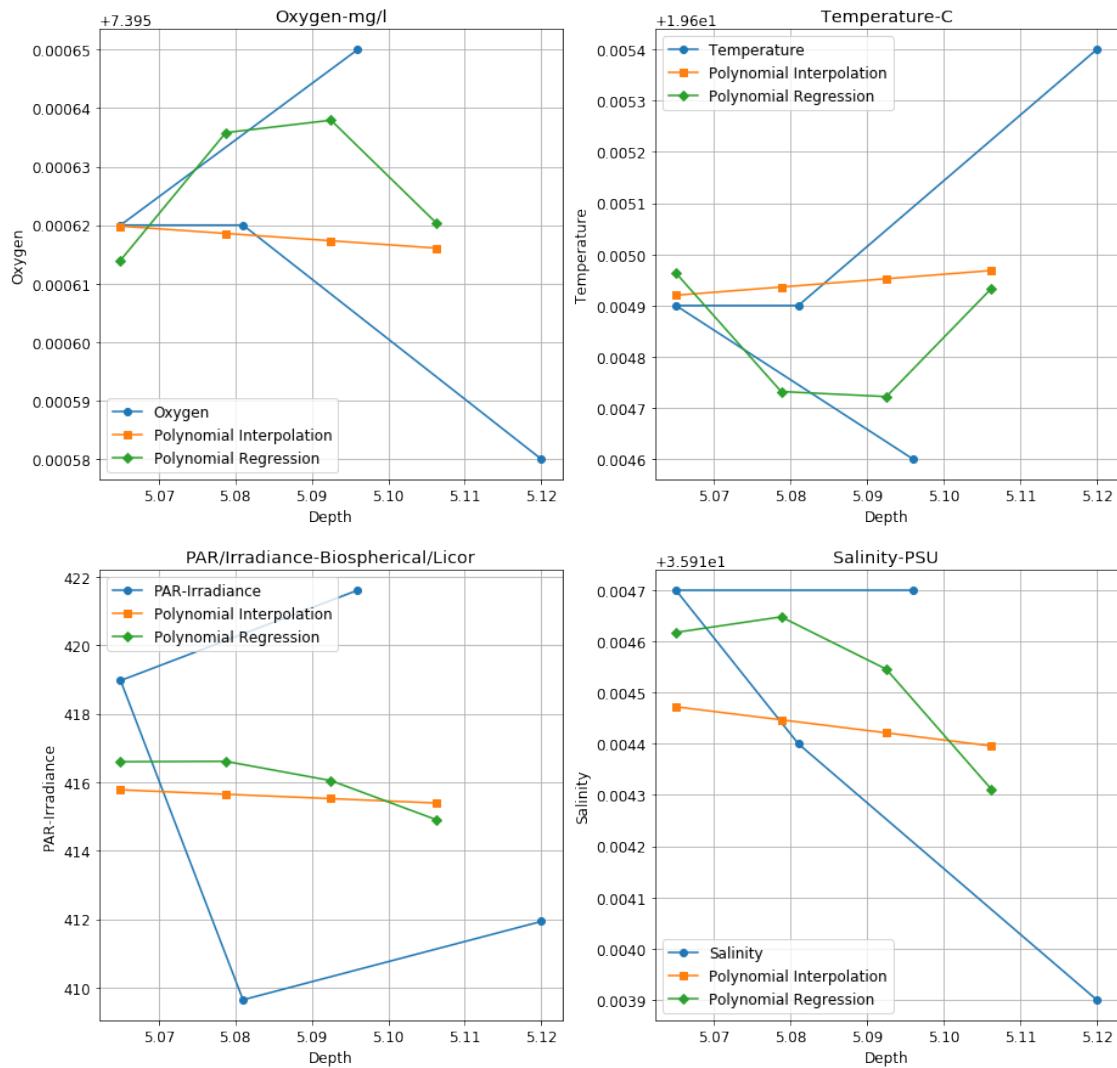
## Profile K79\_317



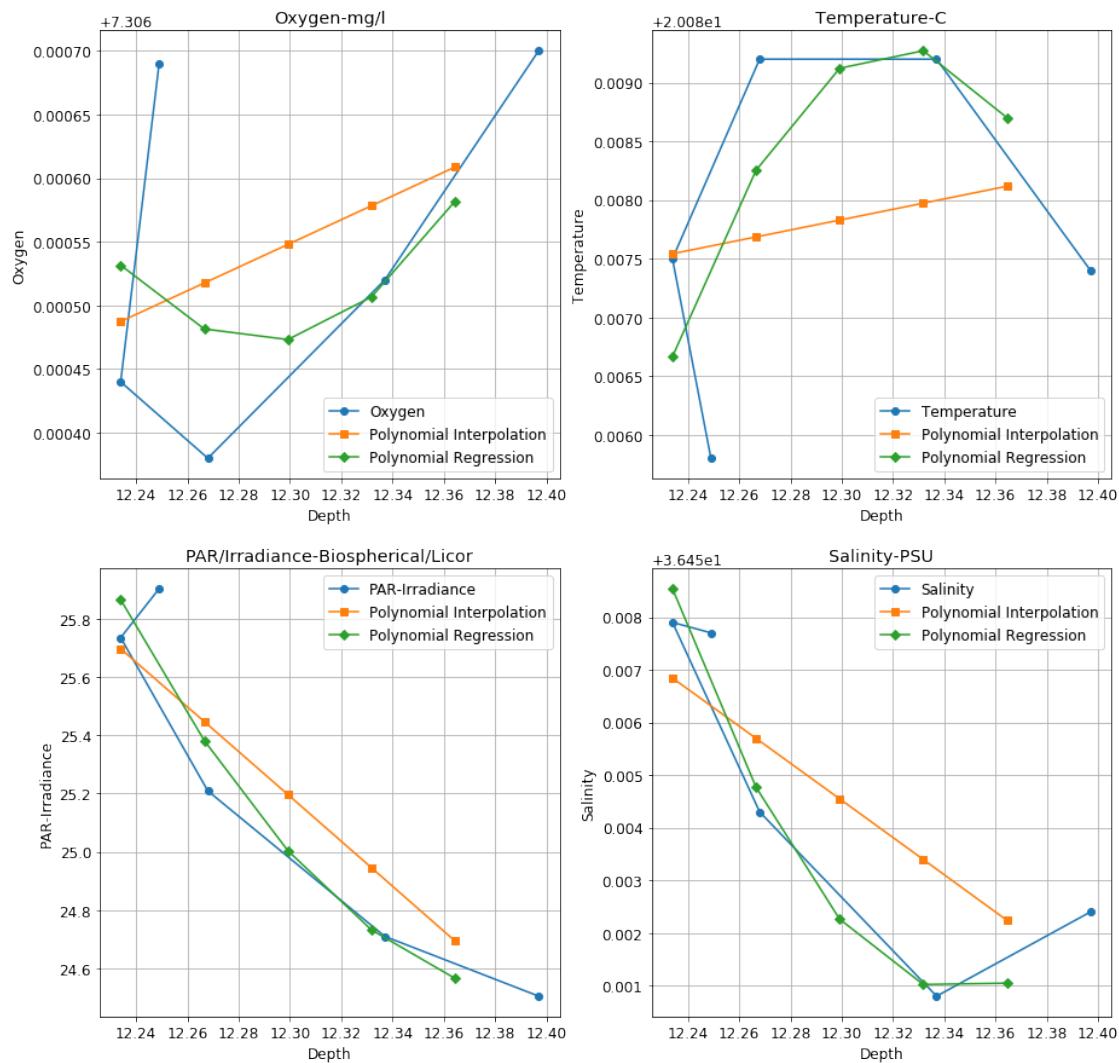
## Profile K79\_318



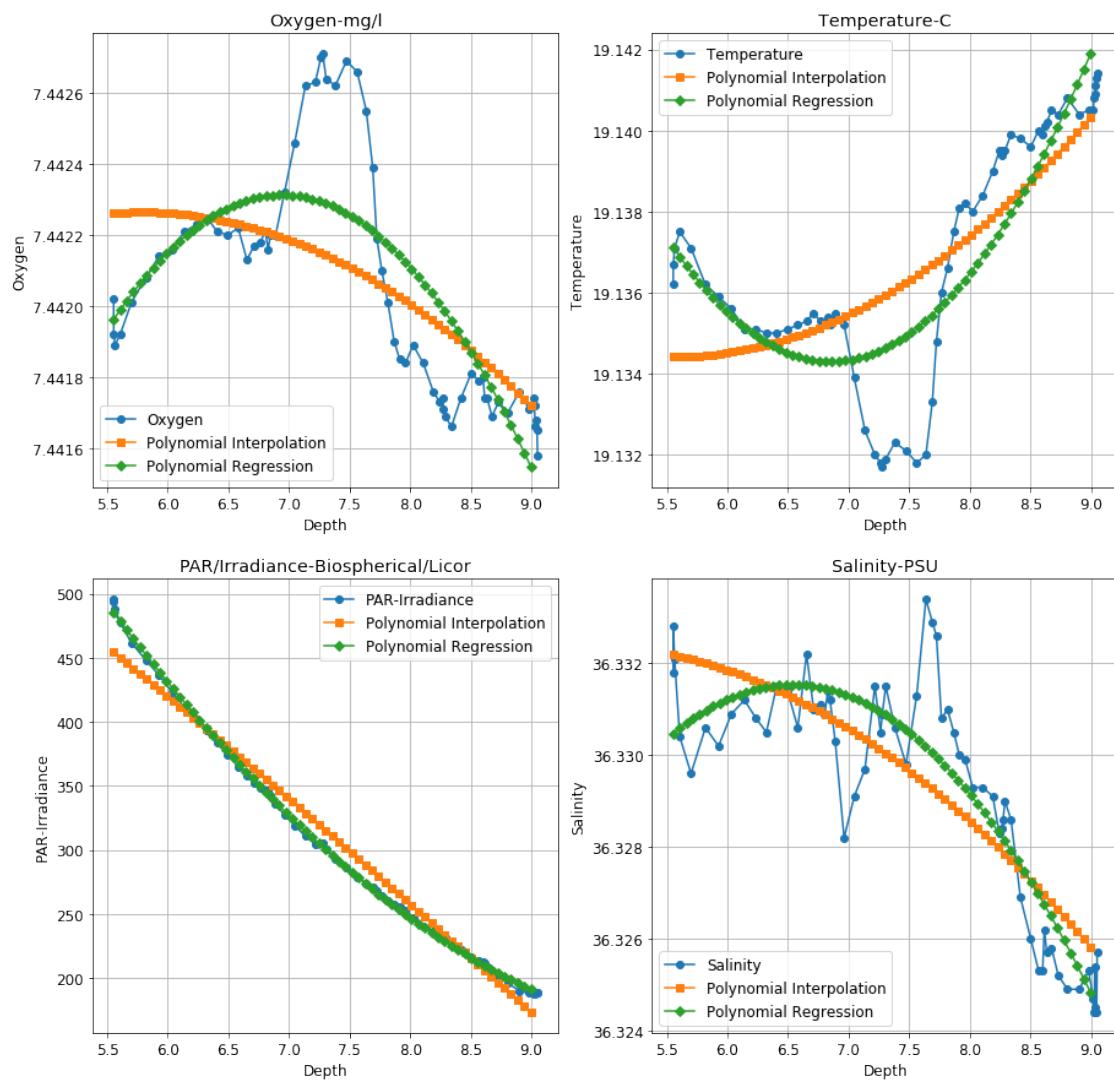
## Profile K79\_319



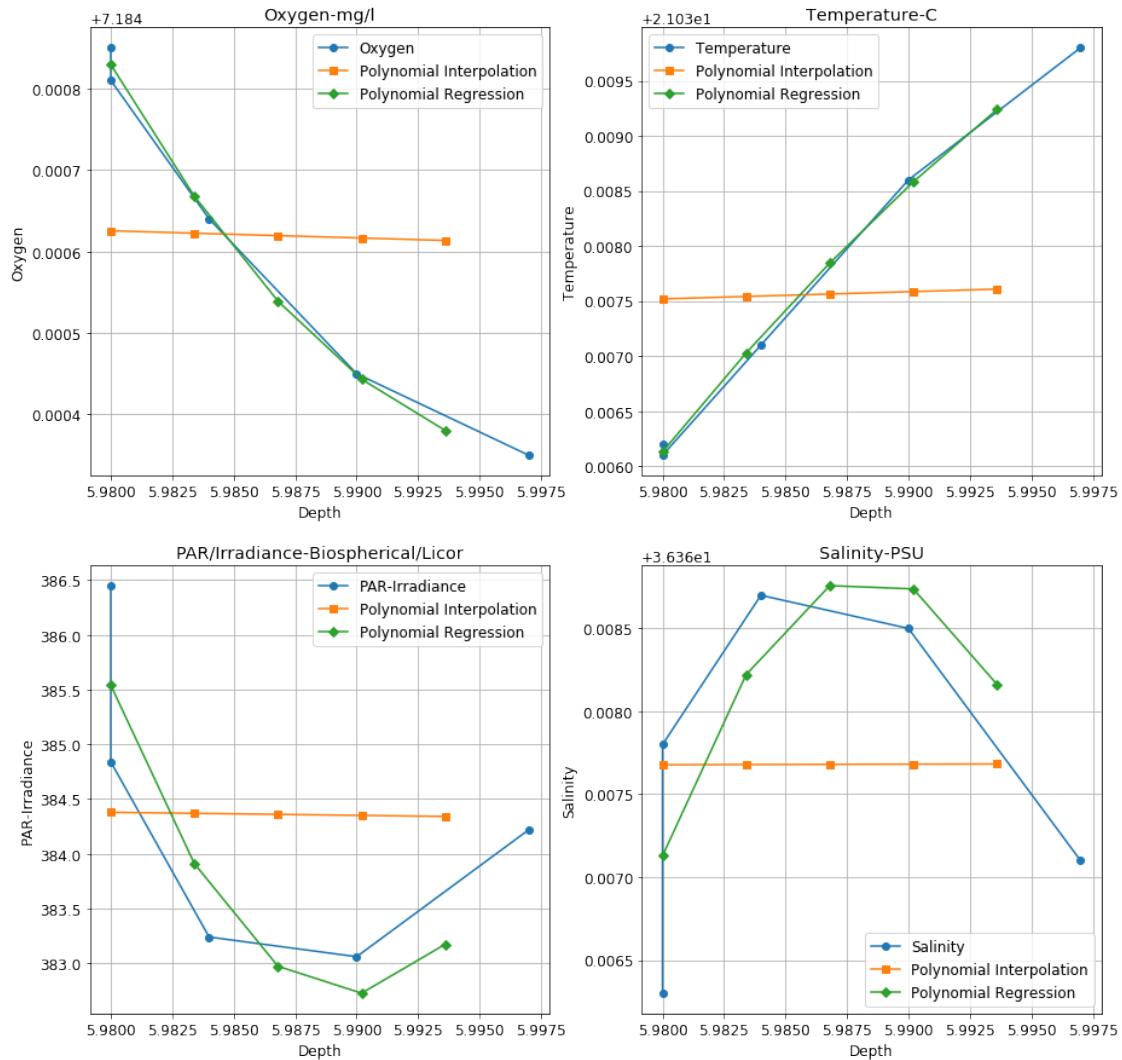
## Profile K79\_322



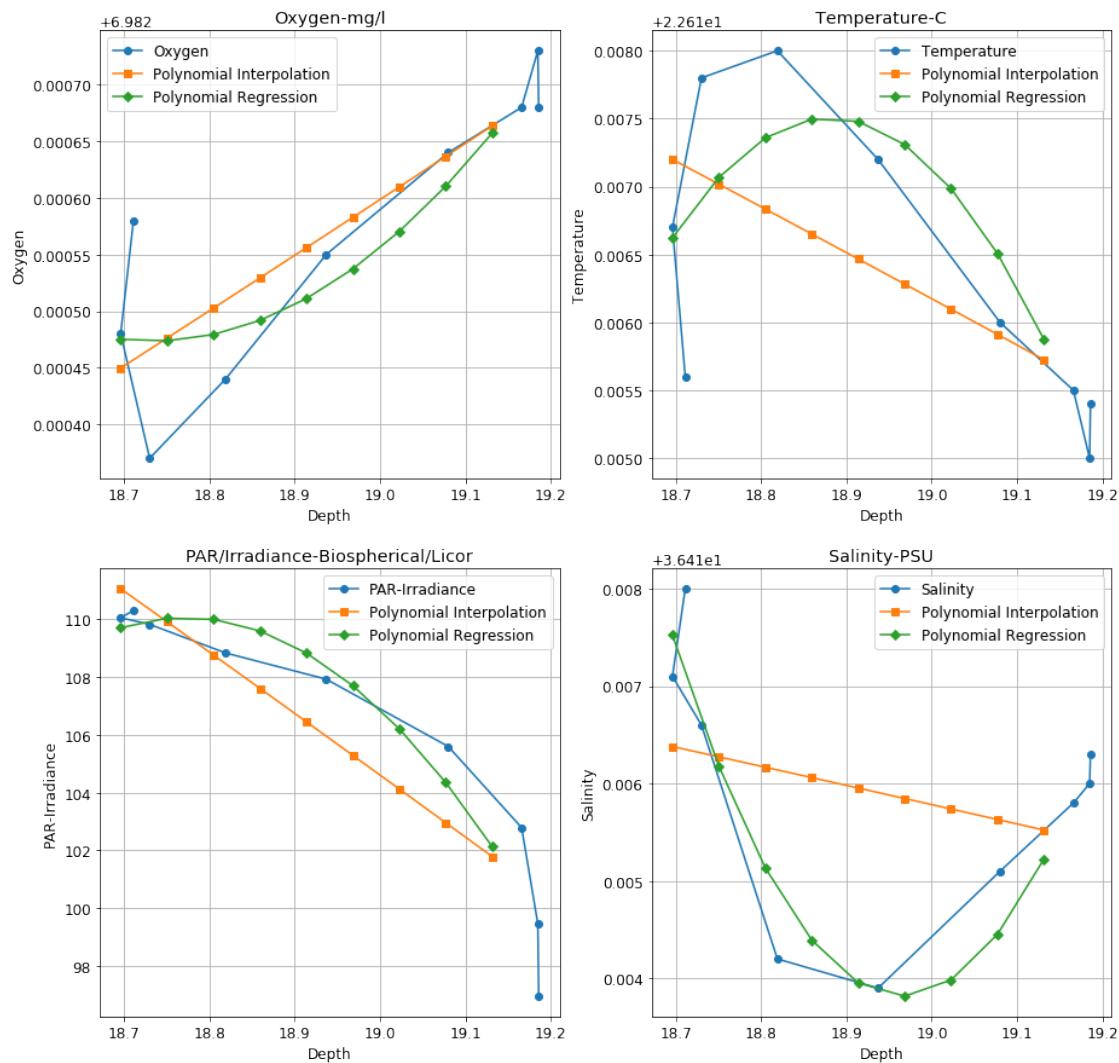
## Profile K79\_324



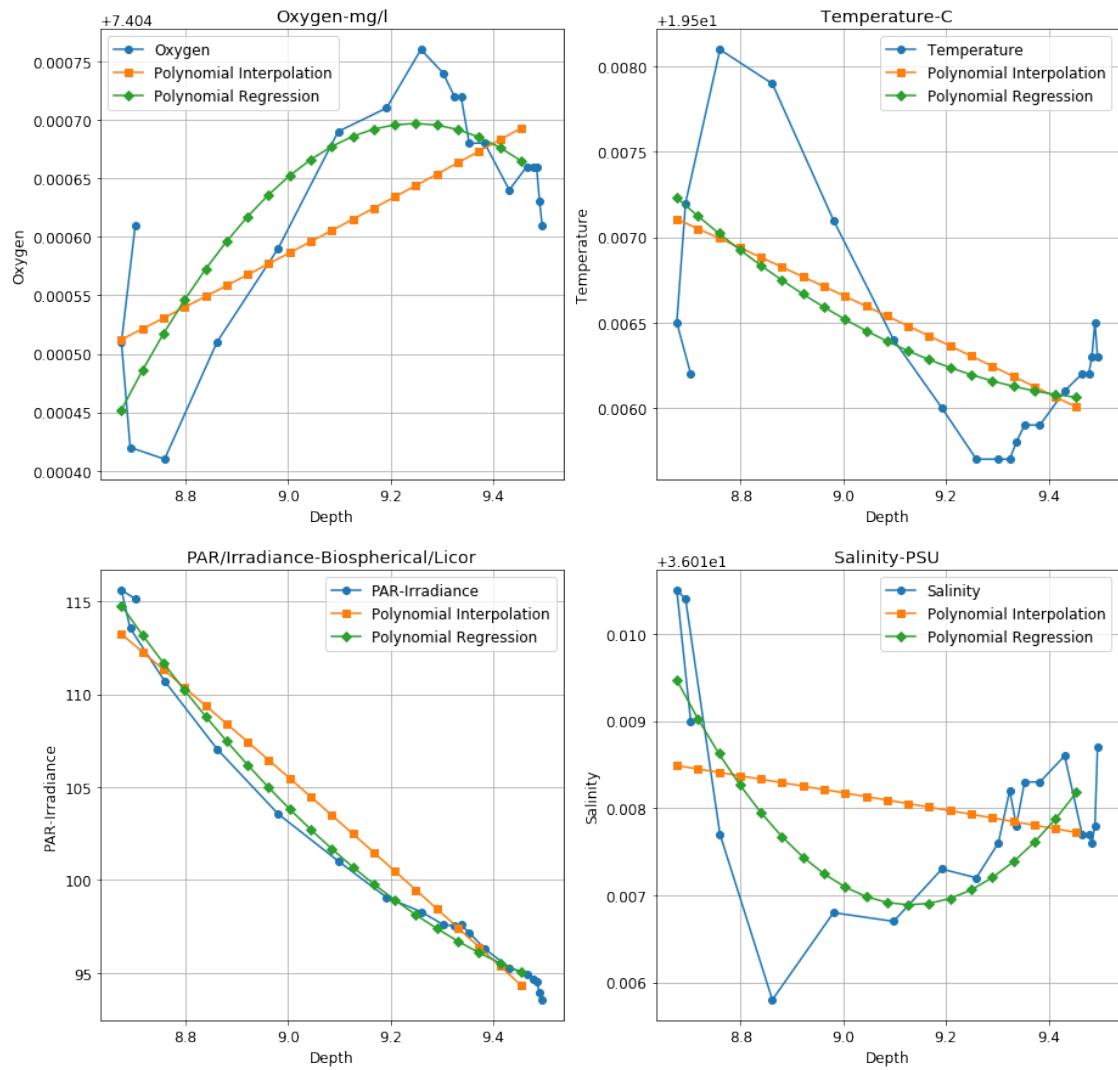
## Profile K79\_325



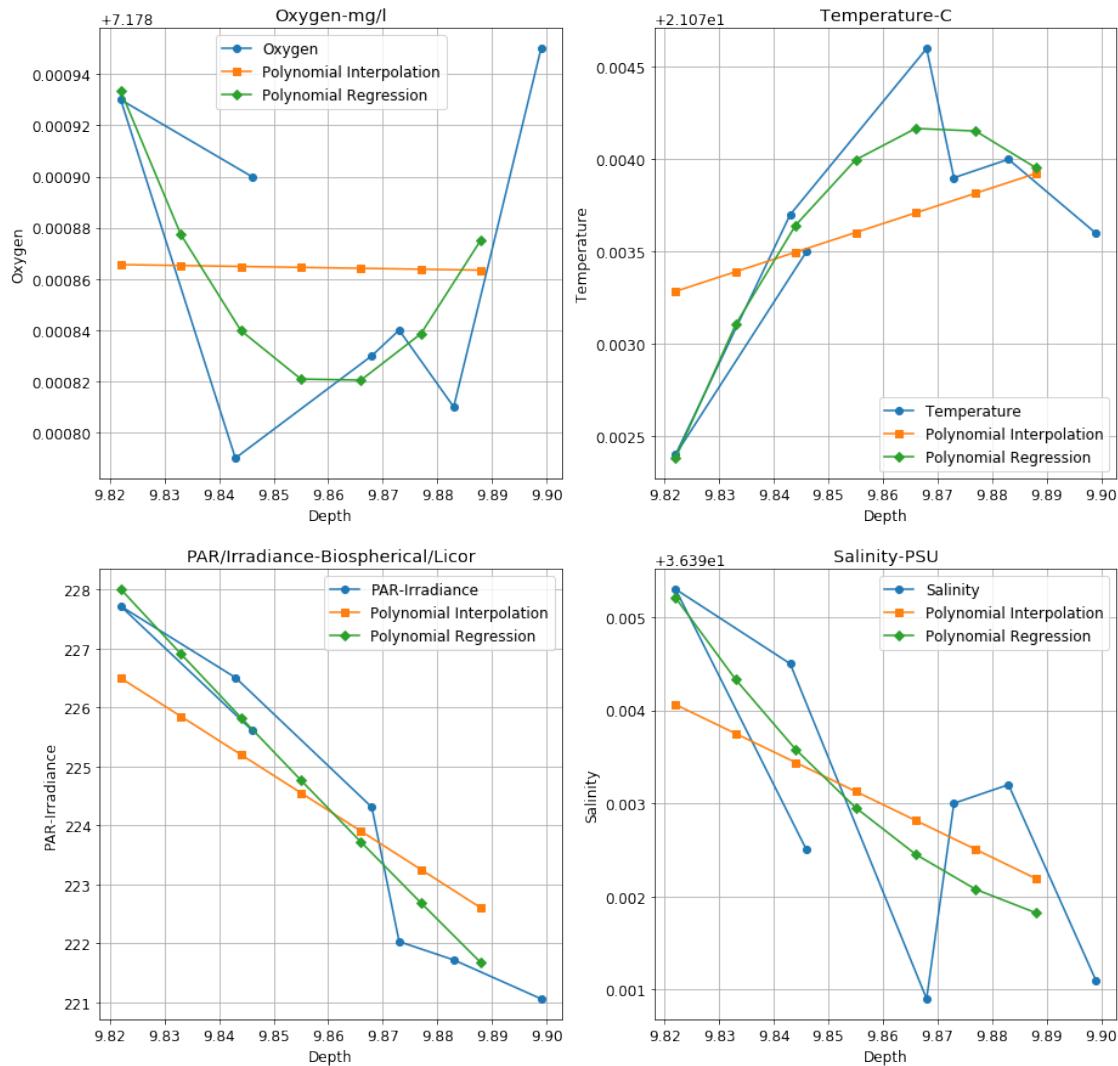
## Profile K79\_328



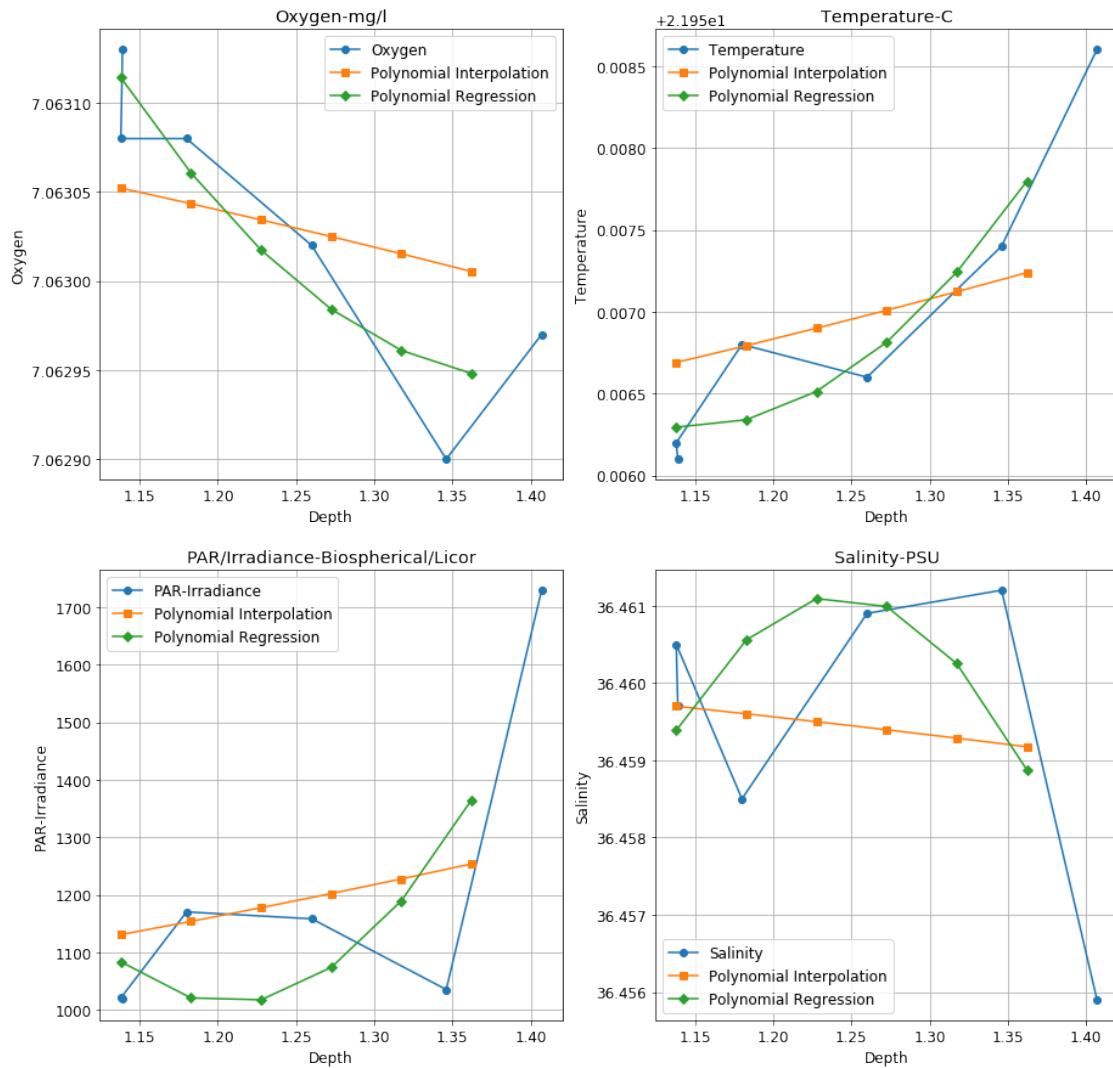
## Profile K79\_330



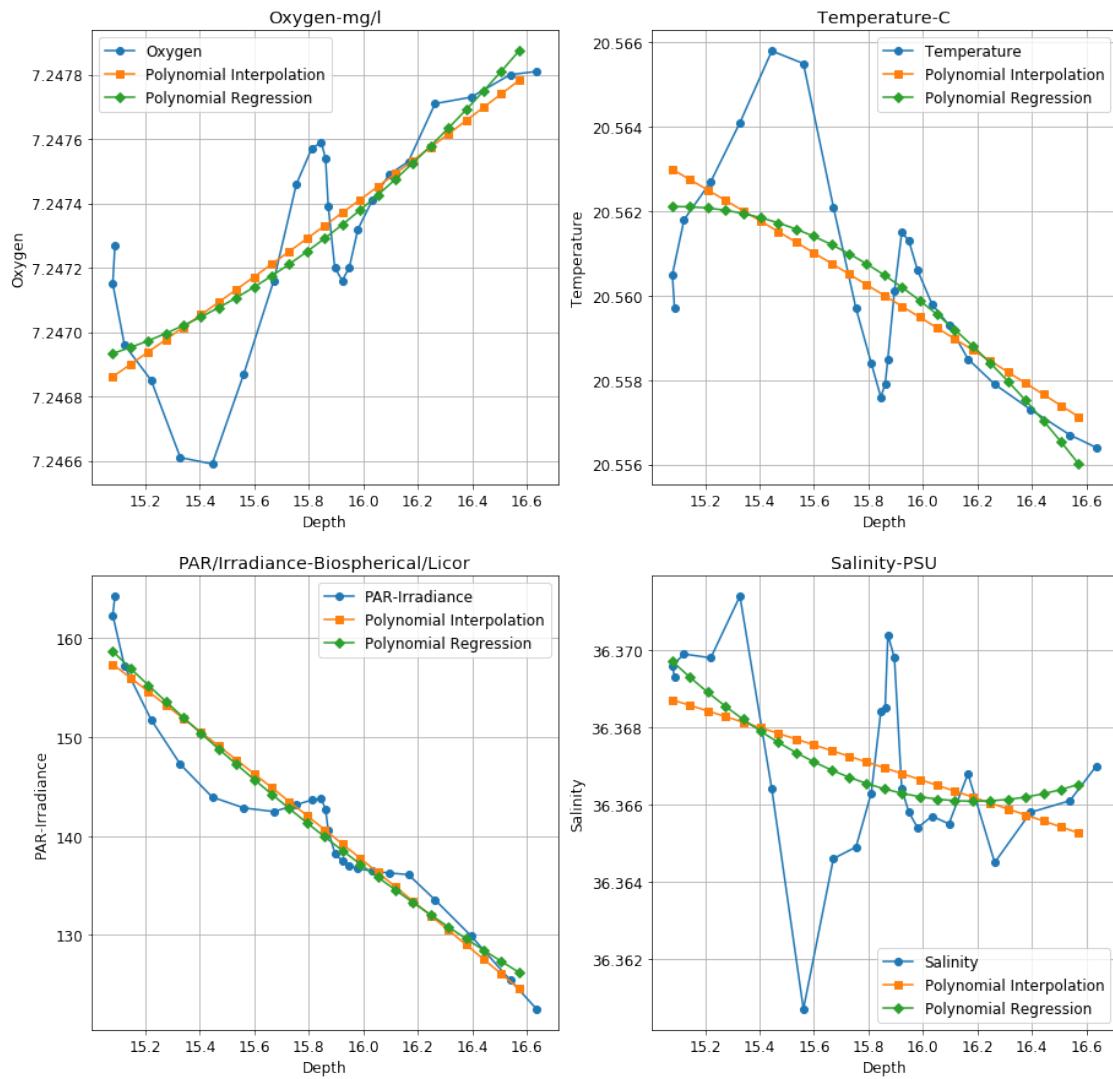
## Profile K79\_332



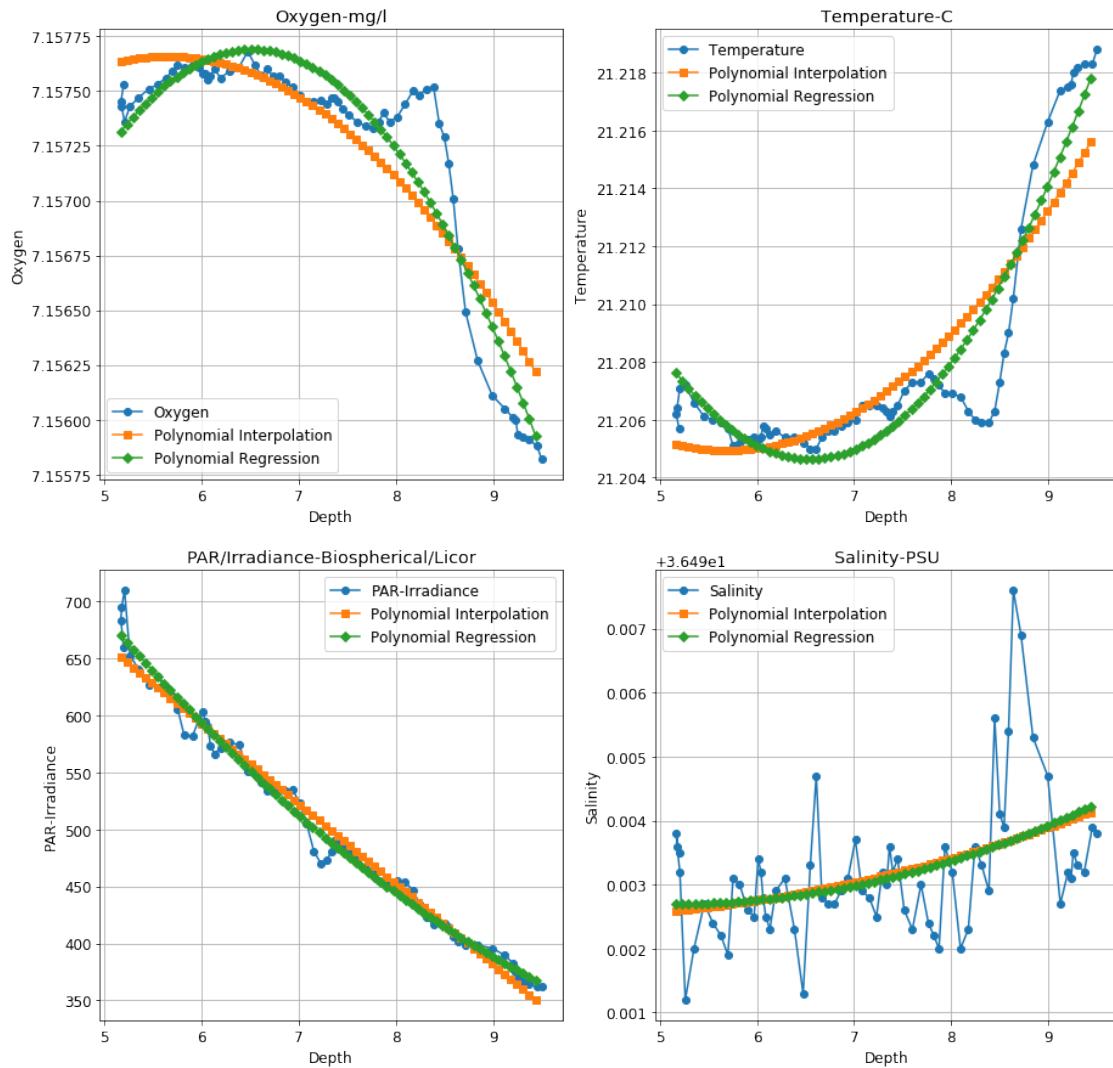
## Profile K79\_333



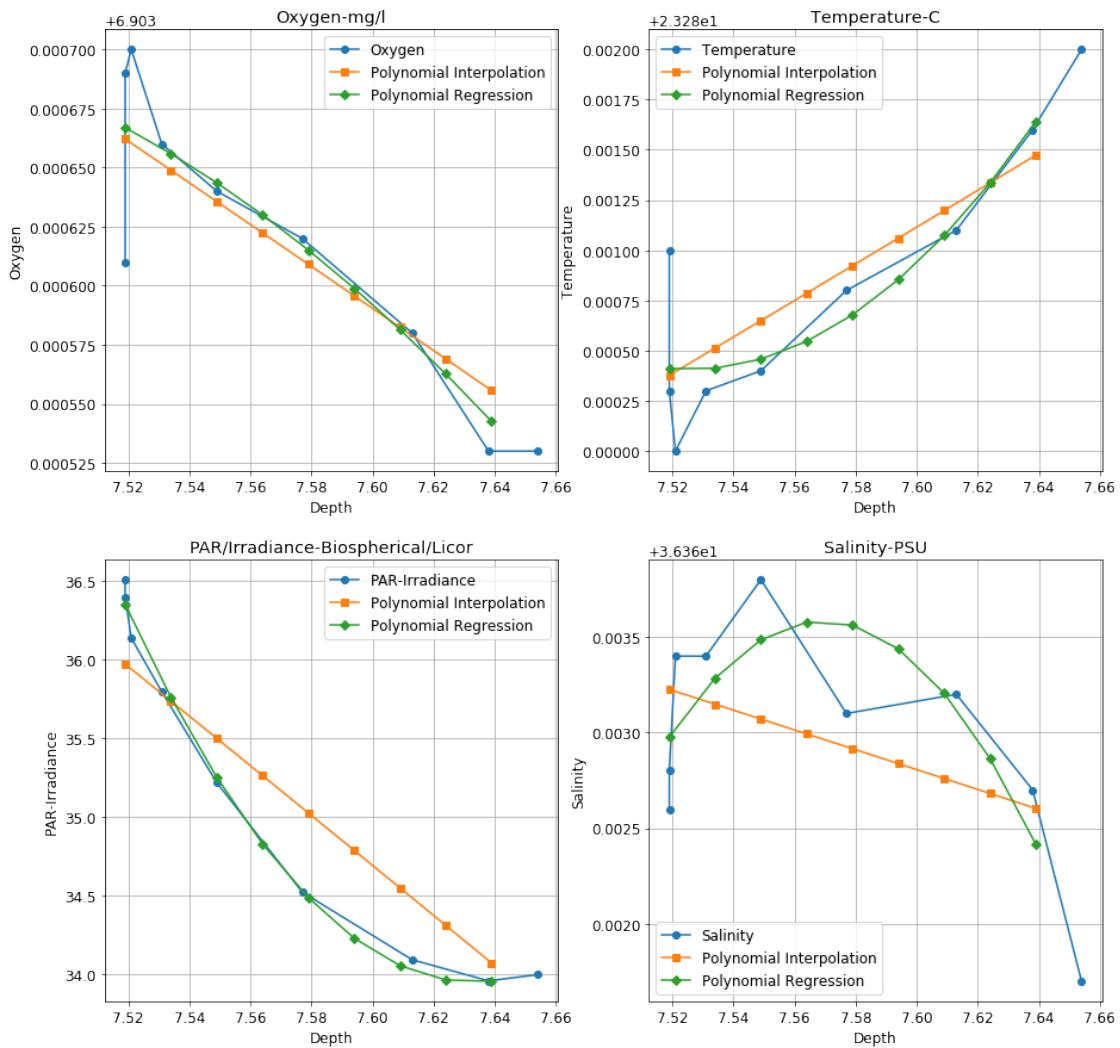
## Profile K79\_335



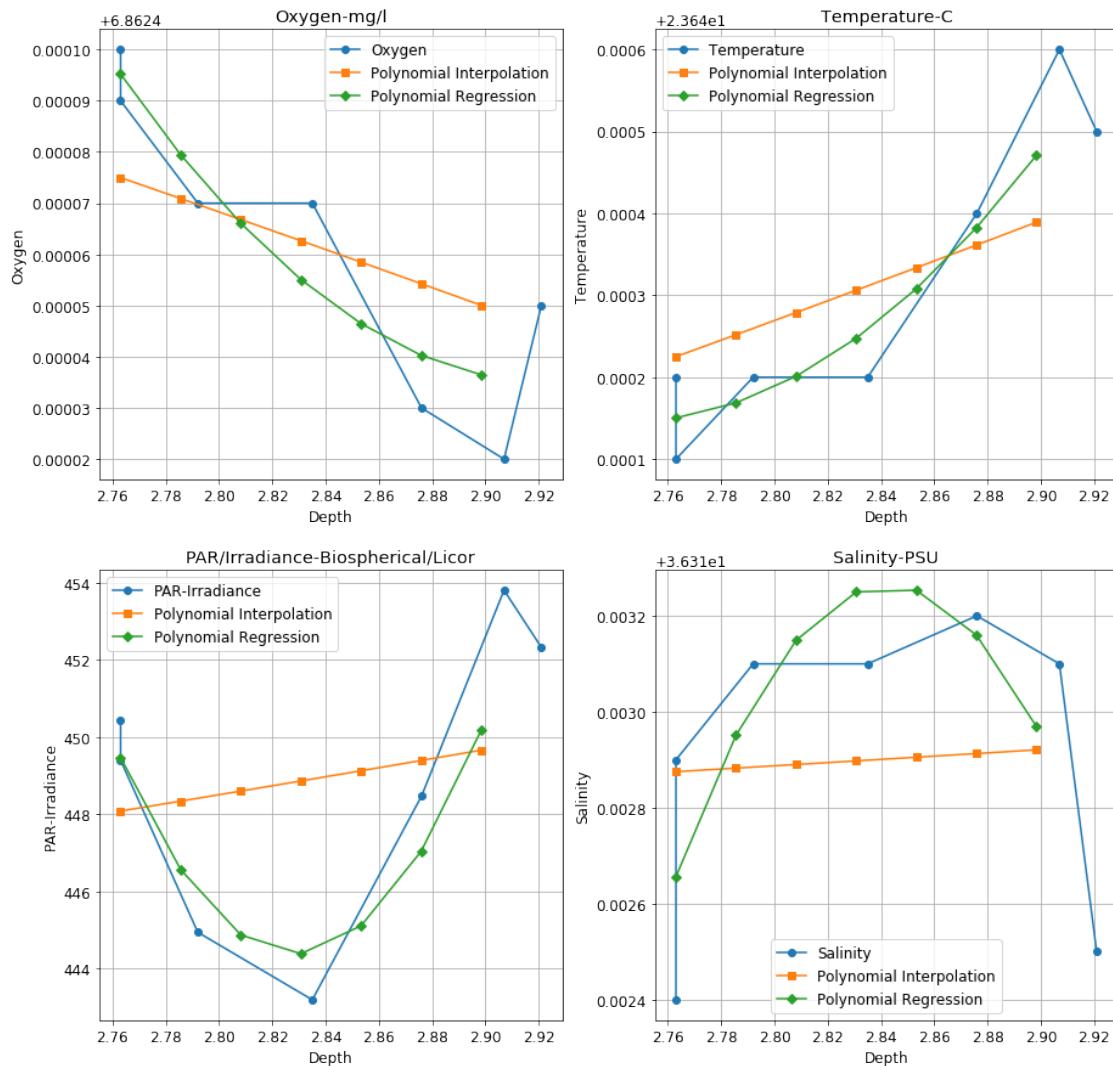
## Profile K79\_337



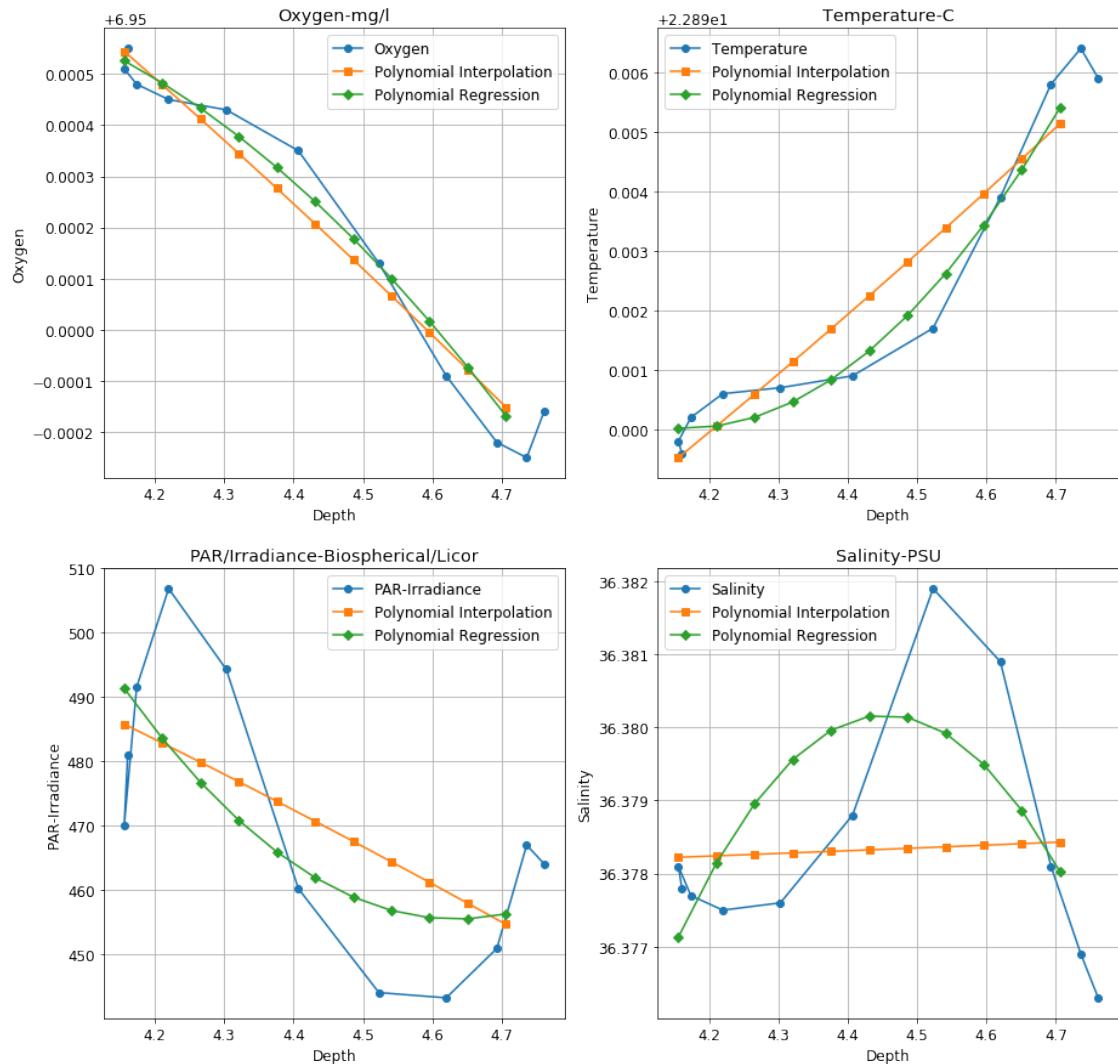
## Profile K79\_400



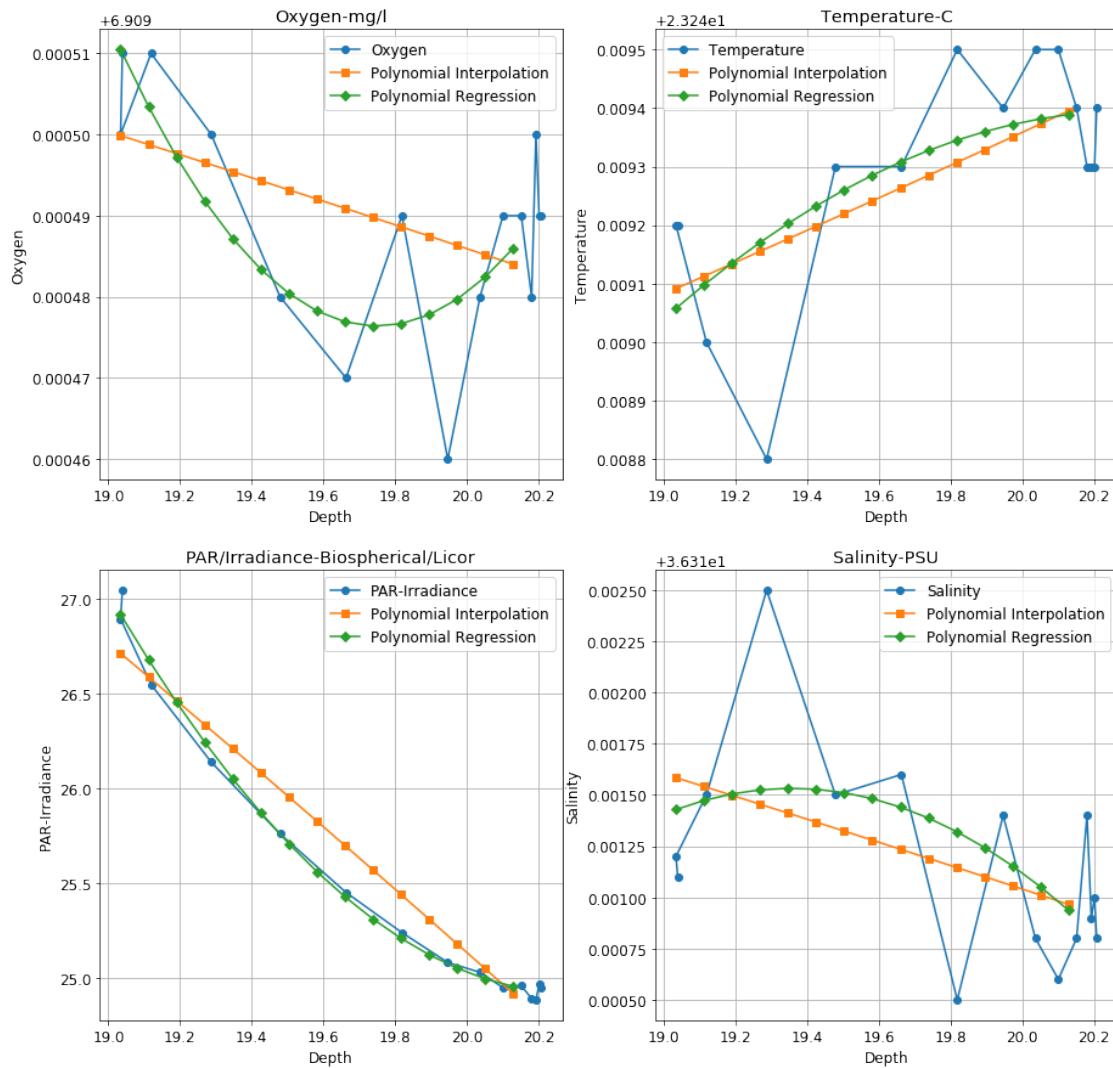
## Profile K79\_401



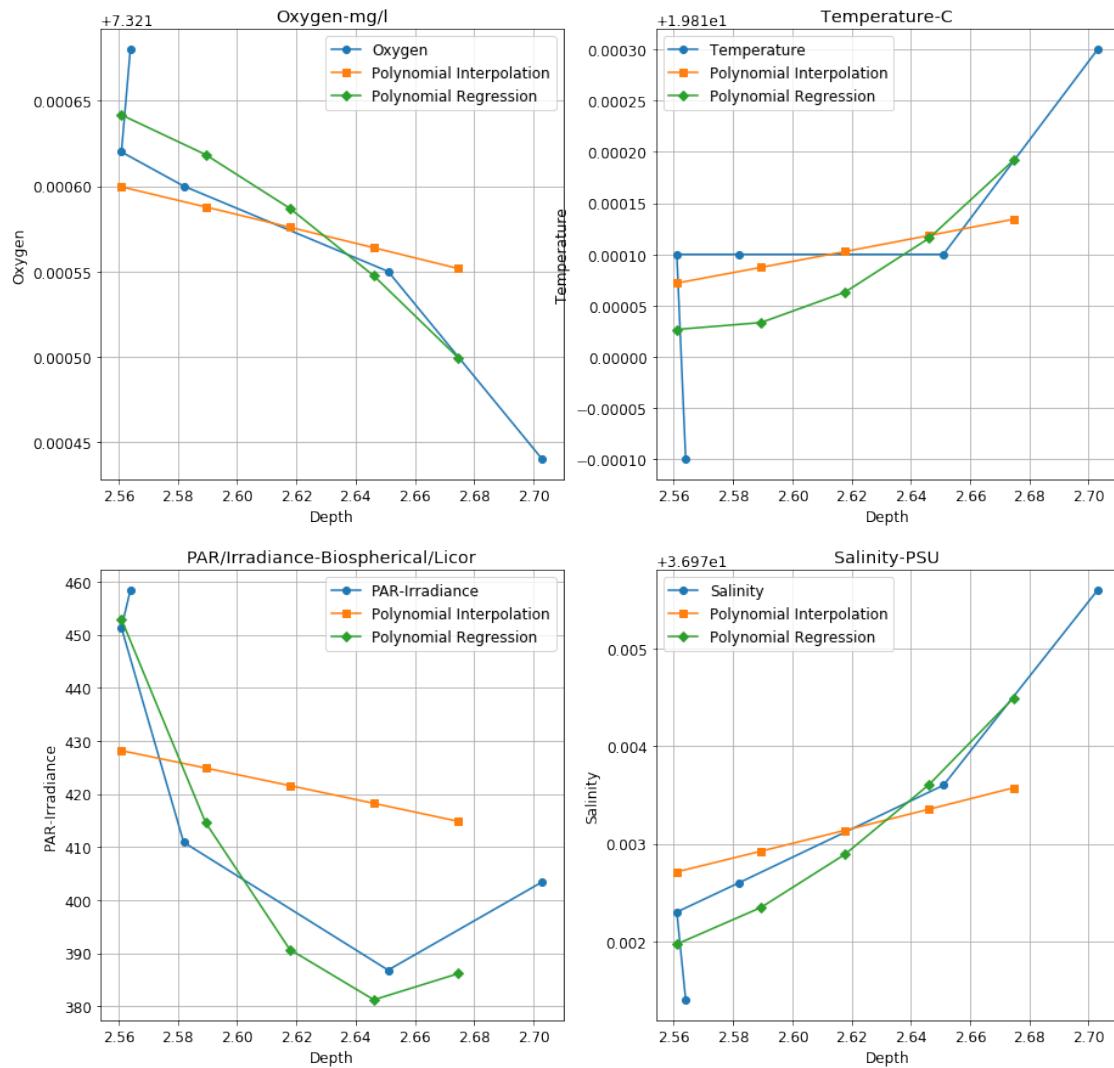
## Profile K79\_402



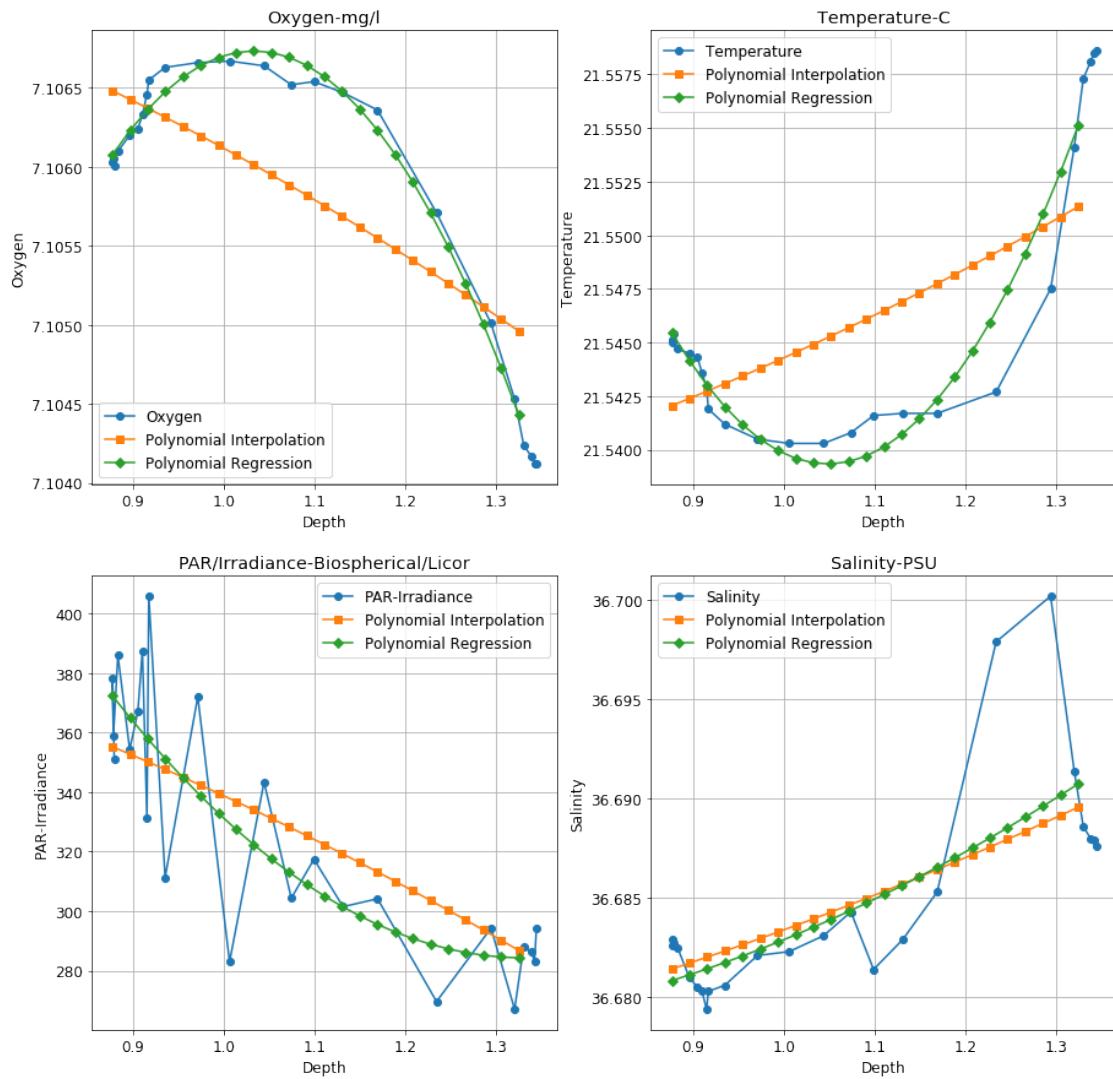
## Profile K79\_403



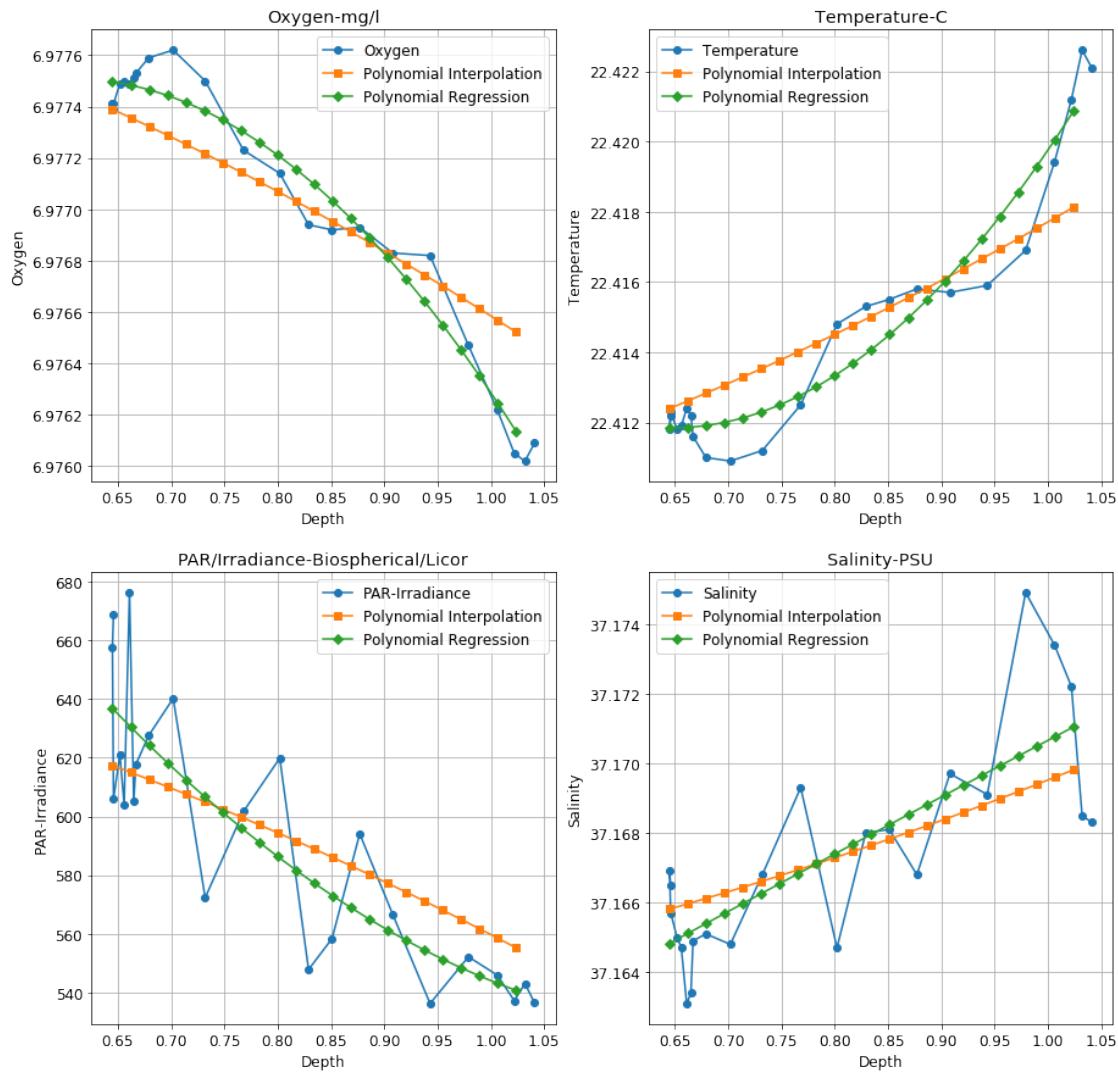
## Profile K79\_500



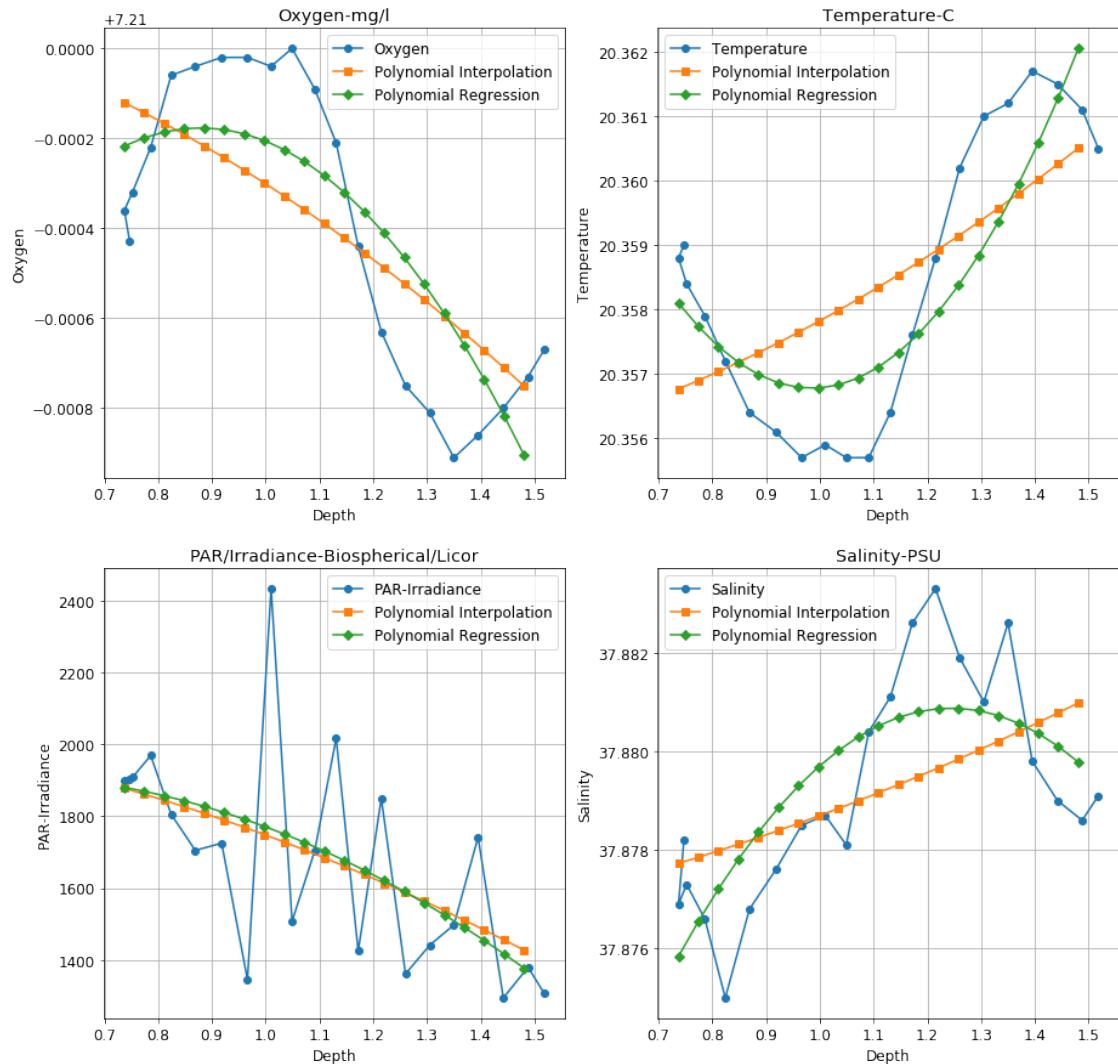
## Profile K79\_501



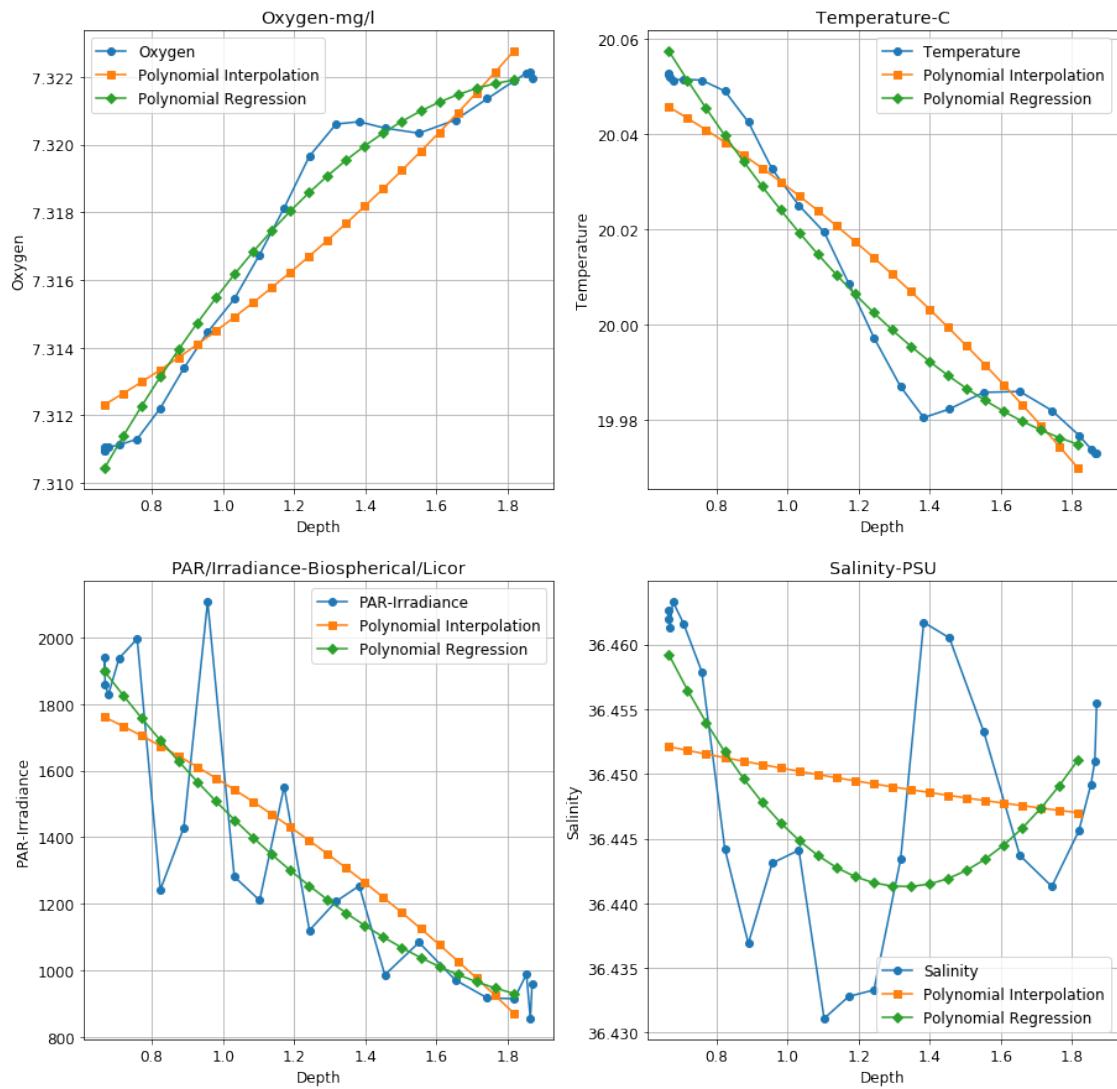
## Profile K79\_502



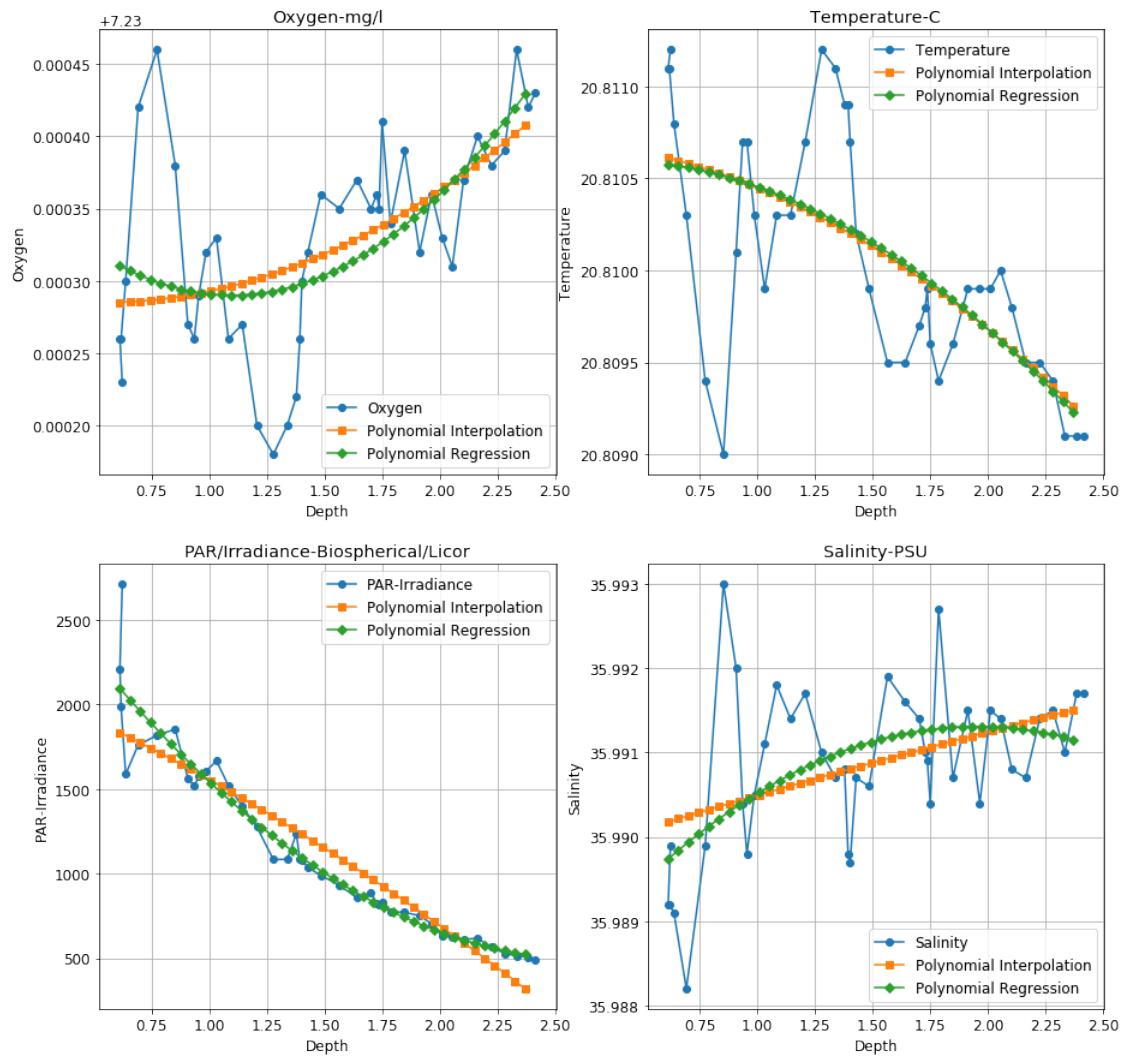
## Profile K79\_503



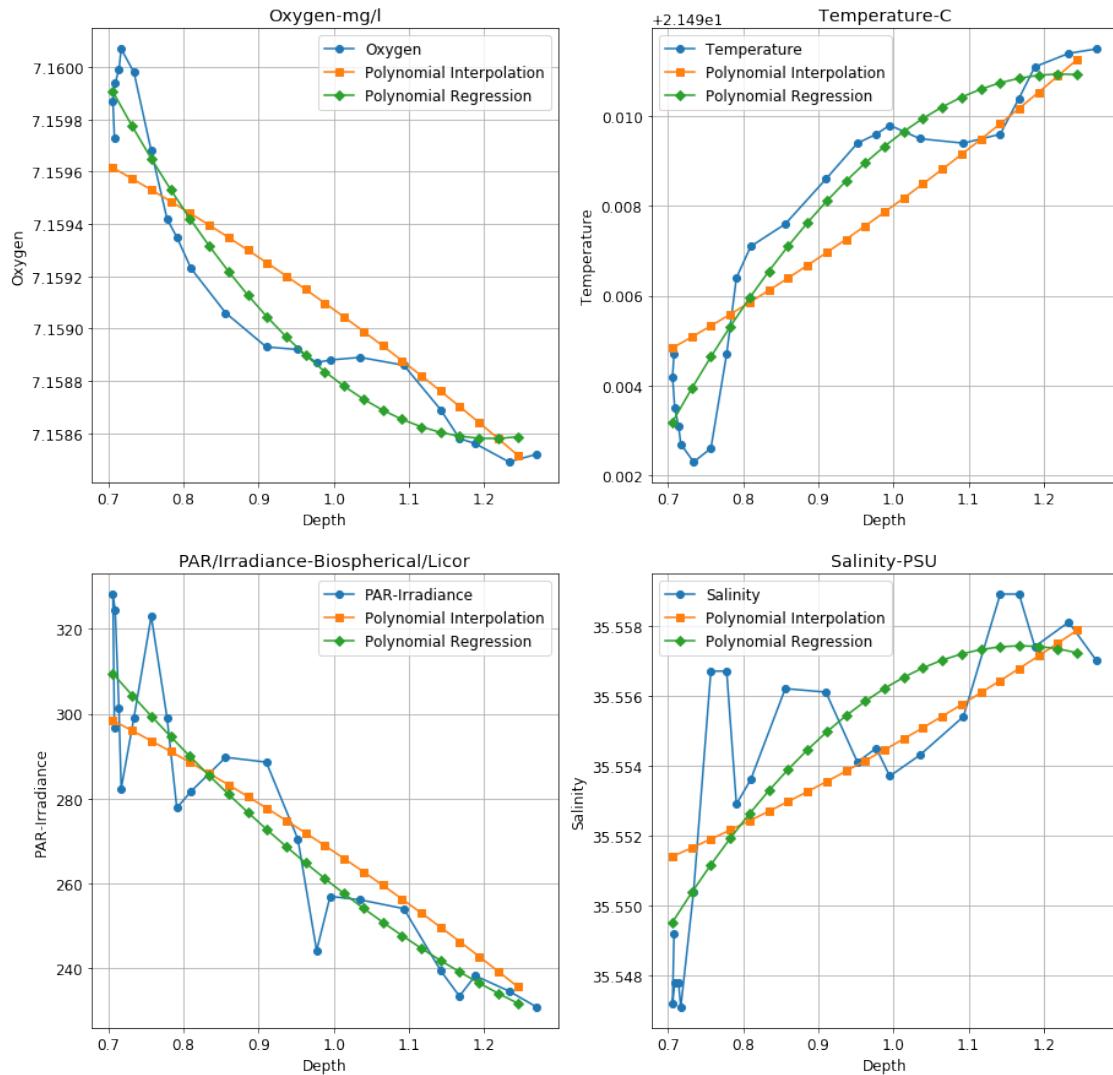
## Profile K79\_504



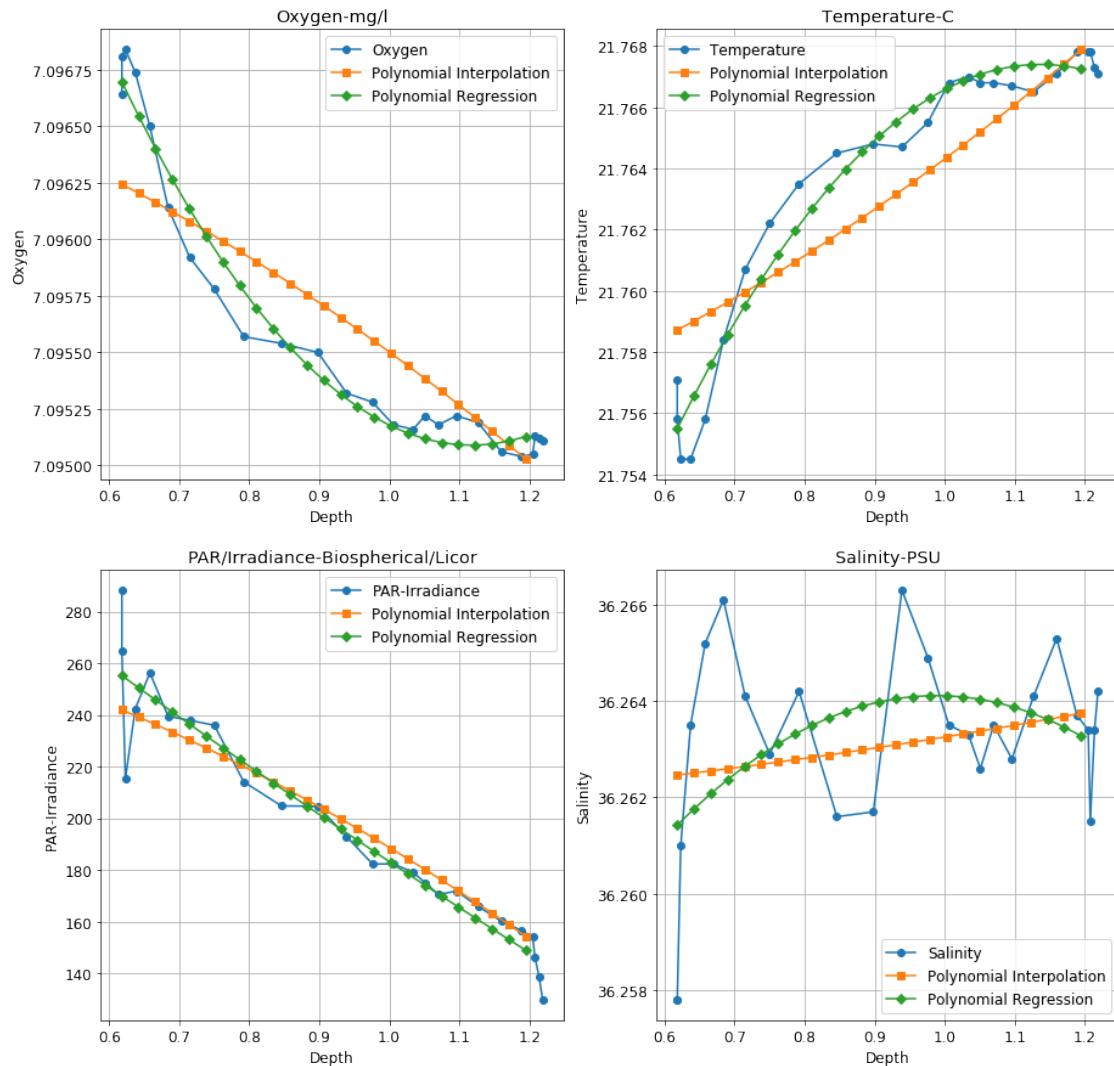
## Profile K79\_505



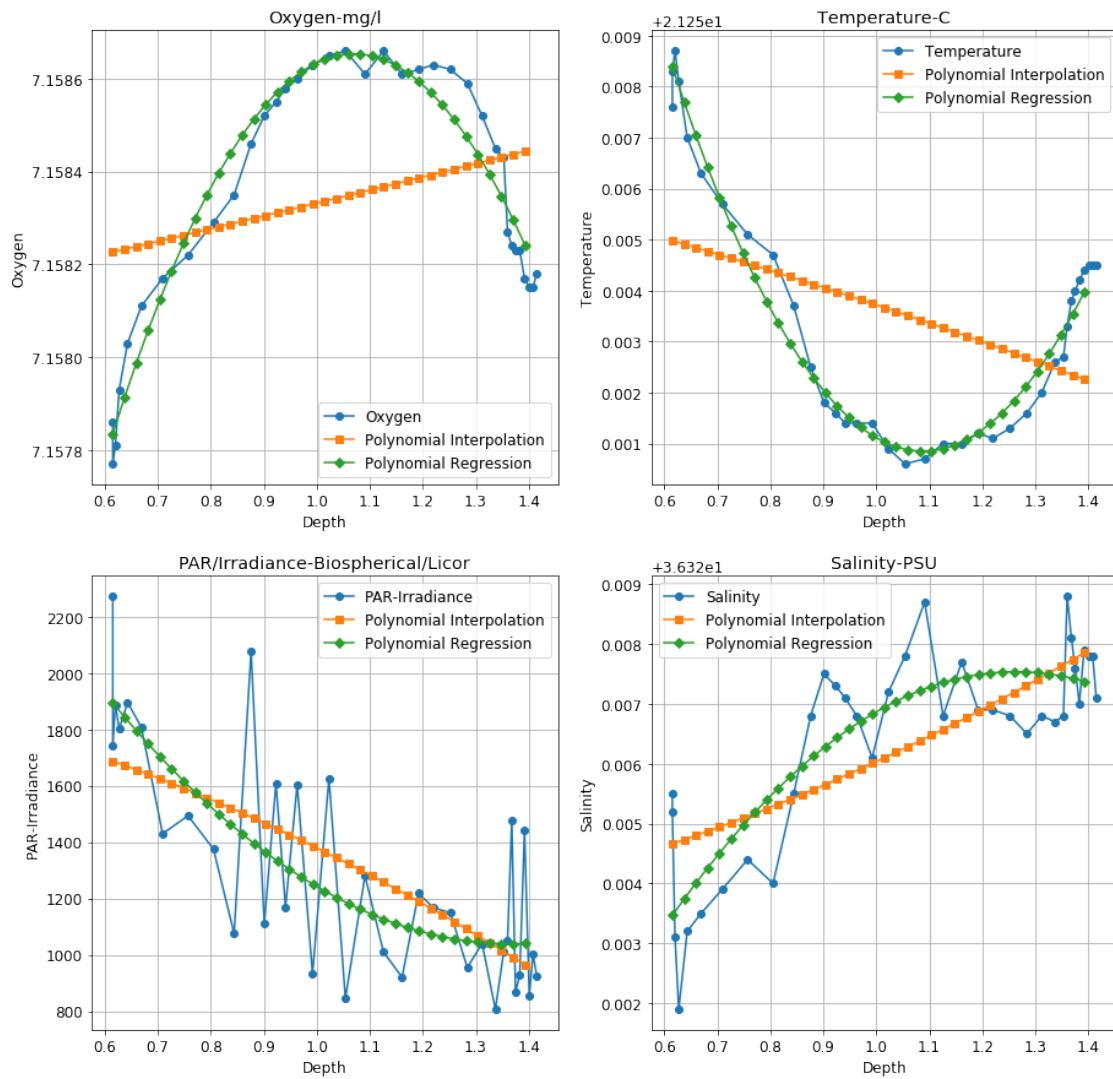
## Profile K79\_506



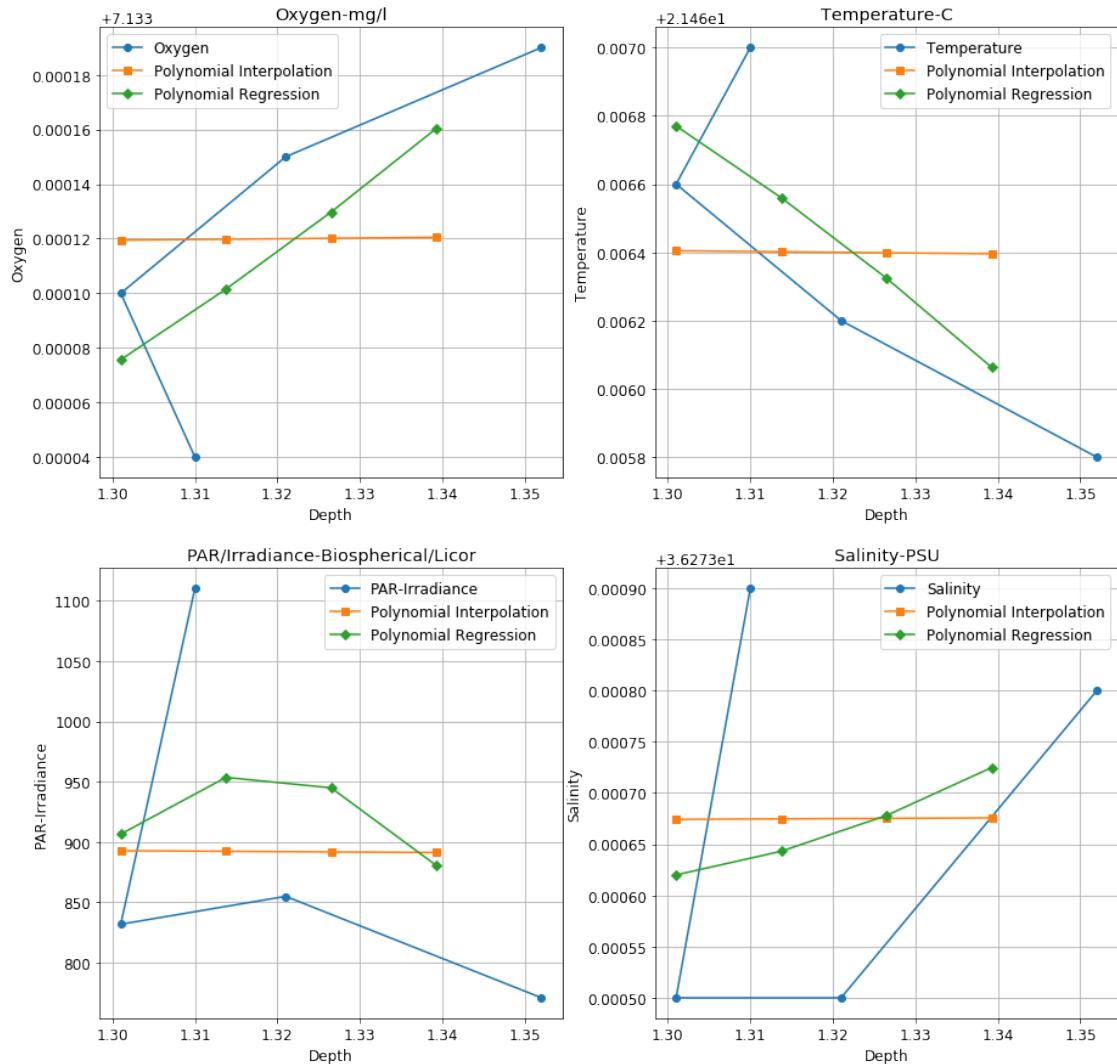
## Profile K79\_507



## Profile K79\_508



## Profile K79\_509



Final shape for PolyInterMatrix (112, 12), and final shape for PolyRegrMatrix (112, 12)

Matrix vector for Polinomial Interpolation:

```
[[ 0.00000000e+00  5.98439016e-07 -2.86477763e-05 ...
   0.00000000e+00
  1.65074318e-05  3.48173808e-04]
 [ 0.00000000e+00 -1.20740529e-04 -3.12570491e-04 ...
   0.00000000e+00
  2.89483449e-03  7.48827278e-03]
 [ 0.00000000e+00 -8.82934443e-06 -8.11421545e-05 ...
   0.00000000e+00
  9.62043804e-06  9.56803524e-05]
 ...
 ...]
```

```
[ 0.00000000e+00 -5.72133411e-04 -8.46651698e-04 ... 0.00000000e+00
 7.50483900e-04 8.12300854e-04]
[ 0.00000000e+00 2.49707353e-04 1.46390302e-05 ... 0.00000000e+00
 1.34850658e-03 1.37439254e-03]
[ 0.00000000e+00 3.40930228e-06 9.05640236e-06 ... 0.00000000e+00
 4.84217054e-06 1.28695628e-05]]
```

Matrix vector for Polinomial Regression:

```
[[ 0.00000000e+00 1.55151410e-02 -1.34190849e-03 ... 0.00000000e+00
 -6.64910485e-02 5.97992025e-03]
[ 0.00000000e+00 1.83244047e-01 -7.39350558e-02 ... 0.00000000e+00
 -4.08203960e+00 1.65099494e+00]
[ 0.00000000e+00 1.81328159e-02 -2.53475675e-03 ... 0.00000000e+00
 -2.81174980e-02 3.89858839e-03]
...
[ 0.00000000e+00 -1.43993400e-02 6.44346786e-03 ... 0.00000000e+00
 3.87633341e-02 -1.96129768e-02]
[ 0.00000000e+00 8.46489858e-03 -3.95571124e-03 ... 0.00000000e+00
 2.45101119e-02 -9.70581958e-03]
[ 0.00000000e+00 -1.72003065e-02 7.35303865e-03 ... 0.00000000e+00
 -9.33387533e-02 3.63901234e-02]]
```

Column vector for coeficients labels:

```
['K79_200' 'K79_201' 'K79_203' 'K79_204' 'K79_206' 'K79_207' 'K79_209'
 'K79_210' 'K79_211' 'K79_212' 'K79_213' 'K79_214' 'K79_215' 'K79_216'
 'K79_217' 'K79_218' 'K79_219' 'K79_220' 'K79_222' 'K79_223' 'K79_224'
 'K79_225' 'K79_226' 'K79_227' 'K79_228' 'K79_229' 'K79_230' 'K79_231'
 'K79_232' 'K79_235' 'K79_237' 'K79_238' 'K79_239' 'K79_241' 'K79_242'
 'K79_243' 'K79_244' 'K79_246' 'K79_247' 'K79_248' 'K79_249' 'K79_250'
 'K79_252' 'K79_253' 'K79_254' 'K79_255' 'K79_256' 'K79_259' 'K79_260'
 'K79_263' 'K79_264' 'K79_266' 'K79_267' 'K79_268' 'K79_269' 'K79_270'
 'K79_271' 'K79_272' 'K79_273' 'K79_275' 'K79_276' 'K79_278' 'K79_280'
 'K79_281' 'K79_282' 'K79_284' 'K79_285' 'K79_287' 'K79_288' 'K79_289'
 'K79_290' 'K79_291' 'K79_292' 'K79_294' 'K79_295' 'K79_296' 'K79_301'
 'K79_302' 'K79_305' 'K79_307' 'K79_309' 'K79_310' 'K79_312' 'K79_314'
 'K79_315' 'K79_316' 'K79_317' 'K79_318' 'K79_319' 'K79_322' 'K79_324'
 'K79_325' 'K79_328' 'K79_330' 'K79_332' 'K79_333' 'K79_335' 'K79_337'
 'K79_400' 'K79_401' 'K79_402' 'K79_403' 'K79_500' 'K79_501' 'K79_502'
 'K79_503' 'K79_504' 'K79_505' 'K79_506' 'K79_507' 'K79_508' 'K79_509']]
```

## 1 Hierarchical Clustering

metric: str or function, optional

The distance metric to use. The distance function can be 'braycurtis', 'canberra', 'cheby-

'shev', 'cityblock', 'correlation', 'cosine', 'dice', 'euclidean', 'hamming', 'jaccard', 'jensenshannon', 'kulsinski', 'mahalanobis', 'matching', 'minkowski', 'rogerstanimoto', 'russellrao', 'seuclidean', 'sokalmichener', 'sokalsneath', 'squeuclidean', 'yule'.

## 1.1 Distance Matrix

[30]:	0	1	2	3	4	5	\
0	0.000000	51.672958	0.670988	4.251807	2.246579	318.386677	
1	51.672958	0.000000	51.038389	49.307633	53.395063	296.399522	
2	0.670988	51.038389	0.000000	4.106763	2.650168	317.885913	
3	4.251807	49.307633	4.106763	0.000000	6.457812	320.189832	
4	2.246579	53.395063	2.650168	6.457812	0.000000	317.954940	
5	318.386677	296.399522	317.885913	320.189832	317.954940	0.000000	
6	450.320920	399.005824	449.665844	448.246789	451.853276	369.248960	
7	3.195808	54.715665	3.752365	7.093050	1.409015	319.018925	
8	24.741822	28.101242	24.173688	21.731282	26.748559	312.226693	
9	9.528313	60.830835	10.077107	13.181638	7.518074	320.509958	
10	3.063736	54.591266	3.621732	6.967509	1.310345	318.997766	
11	31.788643	20.956659	31.198957	28.930170	33.726857	308.906098	
12	11.377245	62.663642	11.930696	14.969386	9.373817	321.125755	
13	14.490612	52.433237	14.232497	17.925973	13.304133	305.255457	
14	0.894194	50.780435	0.373743	3.750451	3.007276	317.995739	
15	3.234843	54.630371	3.751861	7.230834	1.271952	318.698536	
16	3.150033	54.685873	3.712045	7.033087	1.403043	319.056473	
17	2.143237	53.611317	2.662998	6.220478	0.581756	318.532570	
18	3.187829	54.708156	3.744473	7.085450	1.402910	319.017669	
19	15.763649	36.363305	15.188470	12.963547	17.758077	313.886749	
20	3.621264	55.133121	4.179260	7.480090	1.784539	319.142727	
21	3.056837	54.592453	3.617907	6.950875	1.323677	319.023383	
22	34.446910	18.748852	33.861077	31.535655	36.397008	308.656669	
23	4.530155	47.318622	3.992666	2.936726	6.629485	317.308655	
24	2.946062	54.475992	3.503698	6.861311	1.217219	318.964280	
25	72.033446	61.754225	71.507654	73.684539	71.761833	246.521535	
26	2.575531	54.119487	3.134622	6.521275	0.978902	318.880096	
27	0.302096	51.373289	0.379955	4.116037	2.459019	318.206179	
28	88.134398	81.897007	87.677977	90.337757	87.520239	230.770913	
29	121.831675	118.365345	121.448106	124.498120	120.913897	201.791884	
30	4.024535	53.275722	4.109943	8.211618	2.291415	315.864319	
31	3.166348	54.686976	3.722874	7.066139	1.384573	319.011112	
32	3.461870	48.390625	2.951716	2.517585	5.600642	317.711261	
33	321.278526	271.471673	320.609777	319.736596	322.575091	251.821043	
34	13.835321	38.530449	13.287619	10.840947	15.898117	315.364470	
35	16.809113	67.980380	17.363140	20.325884	14.796217	322.677117	
36	40.634899	14.833980	40.062825	37.572379	42.625673	308.921891	
37	82.439622	81.719986	82.028734	84.956501	81.637688	237.756149	
38	109.068767	80.279254	108.461325	109.750146	109.301038	216.142591	
39	13.539664	42.877849	12.932917	14.726511	13.944919	305.466165	

40	20.048370	33.195525	19.515807	16.804907	22.137746	315.026495
41	3.127870	54.645124	3.682743	7.036153	1.343789	318.986639
42	8.983245	51.880396	8.748466	12.560704	7.836042	310.324422
43	5.532509	46.160577	4.924249	4.265312	7.465507	316.101575
44	71.564382	56.769248	71.002622	72.855617	71.497863	247.877926
45	2.585767	54.134471	3.147011	6.524154	0.998992	318.899074
46	3.121804	54.642180	3.677758	7.027157	1.344998	318.994669
47	2.453857	54.007433	3.015714	6.404014	0.934938	318.868585
48	192.129794	163.953383	191.557285	193.234055	192.104779	133.844681
49	286.636596	274.704429	286.230684	289.143134	285.791256	66.195952
50	2.566996	54.114568	3.127538	6.509352	0.983785	318.888789
51	16.661558	35.662995	16.097249	13.735056	18.683632	314.149148
52	10.288989	42.101206	9.770214	7.223616	12.407432	316.735472
53	448.952011	434.786893	448.539679	451.410742	448.128419	147.340303
54	284.248437	272.409281	283.843097	286.758776	283.400948	67.439119
55	75.108794	104.299029	75.525145	72.759402	75.958596	392.540765
56	410.716773	397.733134	410.314122	413.238914	409.855902	116.974757
57	3.142192	54.664895	3.699223	7.042373	1.367718	319.009455
58	3.020529	54.549391	3.578567	6.927932	1.276687	318.986943
59	324.696455	312.166117	324.289843	327.196491	323.852728	61.760018
60	4.283028	53.245207	4.341062	8.447154	2.590419	315.582685
61	7.657059	51.474048	7.403116	11.200749	6.628740	311.392270
62	7.677977	52.595763	7.519010	11.477361	6.346481	311.913667
63	4.982875	53.512074	5.035108	9.101669	3.282837	315.196208
64	2.156533	53.648976	2.686993	6.211978	0.644310	318.596313
65	2.730975	54.229742	3.273880	6.707224	0.974271	318.795638
66	4.781750	46.929629	4.187649	3.655617	6.764687	316.584110
67	33.100454	18.891605	32.486859	30.506339	34.943866	306.048108
68	1.653565	53.188111	2.193683	5.741053	0.817227	318.549283
69	85.014394	35.153012	84.425231	82.040039	86.945648	300.390362
70	60.297873	28.310523	59.635448	59.867095	61.149682	269.537251
71	25.318853	27.416982	24.745130	22.353418	27.309841	311.721709
72	86.830701	37.130300	86.244857	83.823676	88.773328	301.144409
73	62.357592	14.876293	61.773345	59.359340	64.307525	303.852380
74	339.302569	324.428630	338.873452	341.652849	338.548549	53.076758
75	160.719827	110.133805	160.130799	157.715435	162.648974	304.321319
76	3.195812	54.715669	3.752369	7.093053	1.409018	319.018927
77	155.533770	146.858574	155.120924	158.010257	154.723774	167.628334
78	402.923295	392.262415	402.544878	405.594640	401.971186	121.262807
79	3.382646	48.364581	2.824917	2.888192	5.455946	317.366794
80	20.690887	31.069372	20.074583	18.259741	22.532825	310.078650
81	28.546385	24.369171	27.881062	27.075207	29.975103	300.452201
82	8.104454	44.555443	7.439723	8.512080	9.214374	311.715965
83	3.195808	54.715665	3.752365	7.093050	1.409015	319.018925
84	3.211307	54.731023	3.767976	7.106902	1.422489	319.023912
85	185.224892	134.484852	184.563279	183.366422	186.676313	248.732419
86	88.080516	68.231114	87.510954	89.265408	88.054716	232.108489

87	129.161732	121.728904	128.743238	131.607981	128.377931	192.249739
88	2.282740	53.837225	2.842938	6.255836	0.857638	318.811792
89	2.883647	54.420558	3.443334	6.798119	1.183577	318.965274
90	63.353569	66.108406	62.928588	65.797381	62.618708	255.957772
91	2.963673	54.493253	3.521368	6.877171	1.230908	318.969318
92	2.633726	54.188690	3.198193	6.557468	1.048456	318.936904
93	1.856196	53.422923	2.416771	5.877708	0.838314	318.703125
94	0.212841	51.885751	0.874055	4.382926	2.087065	318.487780
95	206.596541	258.253699	207.225469	209.204357	204.859601	453.410545
96	2.498566	54.015294	3.045212	6.485711	0.856810	318.770909
97	68.841422	70.639280	68.423688	71.326121	68.073553	250.769513
98	2.153381	53.722981	2.719247	6.125636	0.865629	318.815021
99	5.217799	56.703462	5.780323	8.957385	3.310020	319.629249
100	3.174120	48.548315	2.605277	2.978042	5.230242	317.333158
101	3.153644	54.673758	3.709846	7.055541	1.372331	319.004964
102	18.811053	33.350789	18.228938	16.011745	20.782054	312.768771
103	60.283723	9.738361	59.633382	58.200690	61.881317	288.895277
104	81.472766	31.983308	80.809336	79.733831	82.904413	273.571028
105	246.072140	194.399884	245.436206	243.626609	247.771679	290.179121
106	309.485592	262.273728	308.815598	308.497196	310.522188	207.548848
107	557.383854	531.039801	556.856654	558.939036	557.084075	240.374608
108	50.301528	7.069611	49.643129	48.452237	51.816096	290.694968
109	70.472924	20.686358	69.813585	68.607860	71.968240	280.912819
110	422.887970	373.951999	422.217148	421.578609	424.072083	288.316156
111	10.910523	40.779868	10.267074	9.312046	12.632190	312.684959

	6	7	8	9	10	11	\
0	450.320920	3.195808	24.741822	9.528313	3.063736	31.788643	
1	399.005824	54.715665	28.101242	60.830835	54.591266	20.956659	
2	449.665844	3.752365	24.173688	10.077107	3.621732	31.198957	
3	448.246789	7.093050	21.731282	13.181638	6.967509	28.930170	
4	451.853276	1.409015	26.748559	7.518074	1.310345	33.726857	
5	369.248960	319.018925	312.226693	320.509958	318.997766	308.906098	
6	0.000000	453.226536	427.038102	459.056536	453.108740	419.808837	
7	453.226536	0.000000	27.924809	6.333116	0.132200	34.948880	
8	427.038102	27.924809	0.000000	34.248521	27.793686	7.254313	
9	459.056536	6.333116	34.248521	0.000000	6.465025	41.244436	
10	453.108740	0.132200	27.793686	6.465025	0.000000	34.818956	
11	419.808837	34.948880	7.254313	41.244436	34.818956	0.000000	
12	460.824290	8.183656	36.103303	1.856119	8.315364	43.100423	
13	447.691895	14.101023	30.337532	15.536829	14.108695	35.922668	
14	449.439857	4.066539	23.860119	10.398348	3.935016	30.899312	
15	453.100489	0.420110	27.911811	6.343302	0.448123	34.916158	
16	453.204436	0.066549	27.882915	6.378283	0.095772	34.910044	
17	452.137780	1.105691	26.835440	7.414196	0.980001	33.850160	
18	453.219429	0.008012	27.916889	6.341084	0.124215	34.941034	
19	435.344481	18.940634	8.990530	25.260384	18.809777	16.047049	

20	453.629293	0.426963	28.351767	5.907135	0.558277	35.375253
21	453.113480	0.150785	27.788686	6.472055	0.054613	34.815595
22	417.391367	37.612248	9.810952	43.913625	37.482082	2.688715
23	446.113654	7.723335	20.216617	14.056363	7.591505	27.286847
24	452.997575	0.249784	27.675598	6.582894	0.118088	34.701074
25	408.554632	72.903307	67.676372	75.140971	72.870237	66.102389
26	452.656430	0.620473	27.305547	6.953588	0.488634	34.332937
27	450.018864	3.470735	24.458401	9.803643	3.338983	31.499271
28	412.596685	88.516575	86.751304	89.754606	88.504172	85.706611
29	419.092296	121.751532	122.929174	121.992037	121.758881	122.221771
30	451.385248	3.154663	27.214819	7.672067	3.136977	34.025623
31	453.198951	0.029520	27.895295	6.362613	0.102897	34.919450
32	447.167090	6.657632	21.295431	12.990093	6.525580	28.369888
33	139.071294	323.978183	299.455111	329.432356	323.869469	292.409146
34	437.522254	17.028218	10.942727	23.360840	16.896461	18.099310
35	465.896194	13.616219	41.534801	7.286365	13.747882	48.520959
36	412.053247	43.814874	15.895210	50.133683	43.683953	9.050673
37	421.516947	82.544000	83.466582	83.264589	82.542928	83.188847
38	369.878203	110.593188	97.734898	113.946862	110.533748	93.592306
39	439.605965	15.309123	20.606402	19.986617	15.231251	25.966197
40	432.140587	23.244140	5.102572	29.576318	23.112090	12.345235
41	453.156828	0.070574	27.855467	6.401567	0.068644	34.878892
42	448.847213	8.738283	27.643204	11.434030	8.731060	33.882567
43	444.890738	8.670316	19.283199	14.973475	8.540661	26.279091
44	403.401949	72.709700	64.977851	75.464164	72.665219	62.777669
45	452.672948	0.610053	27.317265	6.942928	0.477973	34.345592
46	453.155267	0.074665	27.850256	6.407346	0.060061	34.874267
47	452.551263	0.741952	27.185495	7.074894	0.609910	34.214477
48	339.069336	193.320530	182.280553	195.950839	193.275689	178.161381
49	420.386877	286.659725	285.308327	286.962393	286.663761	283.369416
50	452.653111	0.628825	27.297991	6.961840	0.496822	34.326057
51	434.663747	19.846913	8.081478	26.173992	19.715626	15.208566
52	441.069843	13.484440	14.563345	19.814606	13.352301	21.727436
53	480.149040	449.006185	446.947573	449.332317	449.009192	444.677923
54	420.131380	284.268321	282.955434	284.565453	284.272485	281.029809
55	487.568082	75.122685	81.666298	75.399597	75.113721	86.466844
56	467.489089	410.714170	409.223131	410.934184	410.719483	407.119932
57	453.178345	0.053651	27.871503	6.386684	0.078590	34.896008
58	453.068550	0.175317	27.750458	6.508265	0.043257	34.775890
59	430.469310	324.721329	323.213167	325.015146	324.725376	321.184628
60	451.303268	3.438405	27.267770	7.763579	3.424350	34.053894
61	448.779708	7.626744	26.794014	10.948037	7.607031	33.165242
62	449.896431	7.179932	27.805389	9.970383	7.178739	34.226360
63	451.458503	3.983186	27.687464	7.721639	3.984424	34.430001
64	452.181643	1.072047	26.860561	7.390544	0.944368	33.878844
65	452.746190	0.486114	27.447553	6.805192	0.362846	34.467021
66	445.668270	7.939567	19.992100	14.256611	7.809140	27.012001

67	417.893162	36.215058	9.283562	42.449173	36.087280	2.902511
68	451.749031	1.558704	26.366435	7.887782	1.428070	33.391357
69	369.338949	88.174755	60.328503	94.463657	88.044924	53.226336
70	394.884110	62.548667	44.616978	67.332717	62.457990	39.970939
71	426.363478	28.497281	0.695476	34.816074	28.366407	6.599638
72	367.934028	89.995653	62.126098	96.291278	89.865585	55.047730
73	391.044545	65.524699	37.652437	71.824871	65.394498	30.580820
74	421.571100	339.463510	336.720552	340.022239	339.461954	334.368118
75	299.201519	163.880194	136.022746	170.166754	163.750393	128.931924
76	453.226540	0.000018	27.924813	6.333112	0.132204	34.948884
77	408.049665	155.616031	154.766906	156.123684	155.617027	153.322255
78	479.497113	402.779107	402.542249	402.719945	402.790257	400.759321
79	447.104694	6.567189	21.360116	12.898186	6.435708	28.408955
80	429.988112	23.801226	5.336769	30.042415	23.673457	11.347097
81	421.896633	31.359319	11.844467	37.173901	31.244196	11.371582
82	442.713562	10.617246	19.161997	16.370622	10.509139	25.647802
83	453.226536	0.000000	27.924809	6.333116	0.132200	34.948880
84	453.241418	0.015612	27.940411	6.317577	0.147625	34.964488
85	265.504791	188.062551	162.578164	193.784559	187.947650	155.435531
86	392.127343	89.276601	80.170923	92.064514	89.230469	77.261321
87	409.992386	129.285979	128.525340	129.915416	129.284972	127.269490
88	452.385966	0.913503	27.012909	7.246617	0.781672	34.041714
89	452.946546	0.312330	27.614579	6.644994	0.180150	34.641274
90	425.278747	63.564918	64.807728	64.600284	63.558689	65.062795
91	453.014225	0.232153	27.693275	6.565250	0.100412	34.718722
92	452.728372	0.563193	27.367349	6.894613	0.431010	34.397028
93	451.987613	1.341083	26.585391	7.674123	1.209338	33.615724
94	450.531946	2.993174	24.950225	9.324230	2.861007	31.999292
95	655.560609	203.538519	230.909512	197.447358	203.663152	238.131344
96	452.544731	0.708098	27.218515	7.035767	0.579063	34.240837
97	424.411843	69.001274	70.260033	69.900352	68.997426	70.363212
98	452.280752	1.042451	26.886733	7.375175	0.910357	33.918168
99	455.146005	2.028020	29.952637	4.313391	2.158976	36.975063
100	447.273157	6.352307	21.572929	12.681430	6.221033	28.614631
101	453.185874	0.042530	27.882324	6.375406	0.090608	34.906353
102	432.348853	21.981113	6.000092	28.292750	21.850623	12.986147
103	390.067056	63.237566	37.445700	69.204938	63.117149	30.437037
104	369.080911	84.292229	59.524726	90.018218	84.177813	52.628333
105	207.281795	249.103001	222.050591	255.166154	248.979456	214.797428
106	173.533507	311.929827	289.524939	316.907591	311.832199	282.813645
107	442.051828	558.199292	549.381186	560.011345	558.170757	545.436192
108	400.037549	53.189084	28.526646	59.060794	53.071426	22.027019
109	379.891649	73.345813	48.216834	79.171088	73.229001	41.296878
110	89.649002	425.480385	401.756488	430.727673	425.376405	394.811472
111	439.430919	13.937759	14.546770	20.120267	13.812773	21.252588

12

13

14

15

16

17

\

0	11.377245	14.490612	0.894194	3.234843	3.150033	2.143237
1	62.663642	52.433237	50.780435	54.630371	54.685873	53.611317
2	11.930696	14.232497	0.373743	3.751861	3.712045	2.662998
3	14.969386	17.925973	3.750451	7.230834	7.033087	6.220478
4	9.373817	13.304133	3.007276	1.271952	1.403043	0.581756
5	321.125755	305.255457	317.995739	318.698536	319.056473	318.532570
6	460.824290	447.691895	449.439857	453.100489	453.204436	452.137780
7	8.183656	14.101023	4.066539	0.420110	0.066549	1.105691
8	36.103303	30.337532	23.860119	27.911811	27.882915	26.835440
9	1.856119	15.536829	10.398348	6.343302	6.378283	7.414196
10	8.315364	14.108695	3.935016	0.448123	0.095772	0.980001
11	43.100423	35.922668	30.899312	34.916158	34.910044	33.850160
12	0.000000	16.540244	12.249982	8.197262	8.227799	9.268125
13	16.540244	0.000000	14.494174	13.774719	14.149444	13.876903
14	12.249982	14.494174	0.000000	4.081252	4.023492	2.989926
15	8.197262	13.774719	4.081252	0.000000	0.462751	1.114210
16	8.227799	14.149444	4.023492	0.462751	0.000000	1.074568
17	9.268125	13.876903	2.989926	1.114210	1.074568	0.000000
18	8.191611	14.101475	4.058594	0.420587	0.060985	1.098061
19	27.115621	22.588523	14.878786	18.924295	18.899527	17.848820
20	7.757160	14.141213	4.493291	0.611589	0.471502	1.528543
21	8.321784	14.136788	3.929631	0.447682	0.105864	0.982377
22	45.769724	38.529077	33.558786	37.582678	37.572862	36.514848
23	15.906661	15.936228	3.659567	7.736172	7.678863	6.649207
24	8.433351	14.101587	3.816963	0.491863	0.210185	0.864810
25	76.030567	59.614751	71.598122	72.591992	72.935627	72.331742
26	8.803997	14.107059	3.446487	0.752806	0.577505	0.521243
27	11.654342	14.429511	0.600003	3.495314	3.426788	2.402231
28	90.355037	74.599088	87.822208	88.192023	88.557684	88.101360
29	122.287038	107.650706	121.638517	121.422004	121.799976	121.492398
30	9.449842	11.033960	4.475255	2.846572	3.193003	2.851937
31	8.213171	14.099473	4.037019	0.420488	0.052555	1.076711
32	14.838342	15.632116	2.605490	6.681226	6.611854	5.592703
33	331.112571	316.814086	320.426485	323.812577	323.964668	322.925072
34	25.211769	21.801478	12.962573	17.032479	16.984023	15.949623
35	5.432689	19.962741	17.682630	13.626682	13.660127	14.700377
36	51.989227	44.865591	39.751820	43.796927	43.773562	42.723142
37	83.725330	68.476061	82.203204	82.216062	82.589434	82.218771
38	115.108655	98.607493	108.465233	110.311589	110.612475	109.832015
39	21.601937	9.967177	12.946081	15.062506	15.317722	14.438318
40	31.423104	27.255657	19.184234	23.258087	23.198269	22.174046
41	8.252431	14.082982	3.997614	0.413029	0.070325	1.035130
42	12.829640	5.514555	9.024765	8.415120	8.781206	8.414519
43	16.829427	15.475458	4.638529	8.642107	8.632127	7.571082
44	76.491401	59.956664	71.059399	72.409405	72.736649	72.054777
45	8.793017	14.123747	3.457859	0.751701	0.565671	0.538907
46	8.258022	14.092521	3.992108	0.420333	0.063844	1.031705

47	8.924984	14.127311	3.325977	0.862491	0.697522	0.429019
48	196.897621	180.414930	191.601739	193.020182	193.347319	192.660099
49	287.240131	272.562826	286.407007	286.330307	286.707021	286.371317
50	8.812045	14.118121	3.438687	0.764300	0.584928	0.519430
51	28.027931	23.601511	15.781171	19.838592	19.804512	18.759887
52	21.659831	19.736555	9.431943	13.506925	13.437764	12.421031
53	449.607428	434.912215	448.711828	448.676873	449.053117	448.708847
54	284.841806	270.171087	284.019777	283.938910	284.315662	283.980964
55	75.417950	89.222263	75.357753	75.451732	75.073653	75.379568
56	411.180051	396.614597	410.492299	410.384626	410.761917	410.435569
57	8.237160	14.103095	4.013091	0.426137	0.047151	1.054240
58	8.358618	14.107477	3.891762	0.462225	0.136558	0.938074
59	325.287261	310.624358	324.465676	324.391917	324.768629	324.432802
60	9.522371	10.735103	4.702561	3.127019	3.478274	3.151640
61	12.468142	6.835442	7.673864	7.310042	7.664638	7.210302
62	11.439972	6.958651	7.824662	6.856559	7.225066	6.918500
63	9.424138	10.289976	5.388957	3.612148	4.028137	3.811858
64	9.243776	13.935798	3.009991	1.099066	1.038017	0.064224
65	8.657686	13.982250	3.593398	0.580545	0.458410	0.619767
66	16.111722	15.410001	3.889552	7.922937	7.899644	6.845288
67	44.300261	36.082237	32.206504	36.158243	36.180287	35.110153
68	9.739973	14.040658	2.510729	1.592192	1.518710	0.493171
69	96.319157	87.385682	84.125433	88.139203	88.136109	87.075417
70	68.877743	53.804463	59.536676	62.328287	62.548985	61.590530
71	36.671534	30.663629	24.434899	28.479610	28.456113	27.405309
72	98.147130	89.321395	85.942780	89.963288	89.956480	88.897531
73	73.680910	65.346028	61.470142	65.494593	65.485222	64.427384
74	340.369985	325.394056	339.034962	339.135059	339.508788	339.129926
75	172.021996	162.550951	159.830967	163.843774	163.841608	162.780673
76	8.183652	14.101024	4.066543	0.420113	0.066552	1.105695
77	156.482381	141.531780	155.293353	155.287194	155.662233	155.304583
78	402.884888	388.685217	402.737479	402.449298	402.828854	402.548149
79	14.750362	15.255177	2.500726	6.572405	6.524211	5.486058
80	31.895010	25.066489	19.796746	23.745604	23.766479	22.696333
81	38.959083	28.107342	27.683427	31.222992	31.339919	30.280452
82	18.173450	12.387434	7.342088	10.457229	10.604221	9.571579
83	8.183656	14.101023	4.066539	0.420110	0.066549	1.105691
84	8.168090	14.102757	4.082119	0.421447	0.076956	1.121170
85	195.530631	182.191901	184.352829	187.922842	188.043369	186.983933
86	93.087163	76.554551	87.559346	88.977996	89.302744	88.608986
87	130.318612	115.215078	128.912287	128.957524	129.331449	128.959123
88	9.097027	14.116176	3.153580	1.008268	0.870016	0.297831
89	8.495140	14.117342	3.755504	0.536457	0.268788	0.810601
90	65.174619	49.557384	63.094636	63.238195	63.608419	63.200348
91	8.415690	14.102617	3.834634	0.483853	0.192776	0.882012
92	8.744165	14.150062	3.507549	0.726602	0.516385	0.594693
93	9.524700	14.130675	2.725887	1.405232	1.297629	0.353722

94	11.172202	14.506594	1.106885	3.040896	2.946411	1.951791
95	195.626206	207.966544	207.490252	203.624265	203.568634	204.643144
96	8.887751	14.016550	3.362583	0.788816	0.672107	0.406955
97	70.428124	54.962102	68.594194	68.673790	69.045677	68.655027
98	9.224973	14.155984	3.026785	1.136426	0.997187	0.283923
99	6.159660	14.422082	6.093358	2.091401	2.069882	3.125192
100	14.534331	15.091579	2.287536	6.353421	6.310049	5.267914
101	8.226028	14.095986	4.024127	0.419093	0.053631	1.063492
102	30.148656	24.813134	17.923852	21.958061	21.940967	20.886089
103	71.010220	59.584056	59.398680	63.126843	63.212625	62.141215
104	91.771378	78.901561	80.604449	84.150917	84.273517	83.215593
105	256.985075	245.164349	245.179855	249.010494	249.074313	247.999854
106	318.469704	303.189061	308.678275	311.727405	311.925177	310.931600
107	560.708948	544.626342	556.944171	557.883824	558.233665	557.656761
108	60.849111	49.162515	49.424893	53.063847	53.167130	52.100998
109	80.946680	68.626312	69.597460	73.215899	73.324730	72.260499
110	432.355715	417.537304	422.053543	425.297819	425.470820	424.449493
111	21.969023	16.900208	10.022302	13.861660	13.907202	12.832774

	18	19	20	21	22	23	\
0	3.187829	15.763649	3.621264	3.056837	34.446910	4.530155	
1	54.708156	36.363305	55.133121	54.592453	18.748852	47.318622	
2	3.744473	15.188470	4.179260	3.617907	33.861077	3.992666	
3	7.085450	12.963547	7.480090	6.950875	31.535655	2.936726	
4	1.402910	17.758077	1.784539	1.323677	36.397008	6.629485	
5	319.017669	313.886749	319.142727	319.023383	308.656669	317.308655	
6	453.219429	435.344481	453.629293	453.113480	417.391367	446.113654	
7	0.008012	18.940634	0.426963	0.150785	37.612248	7.723335	
8	27.916889	8.990530	28.351767	27.788686	9.810952	20.216617	
9	6.341084	25.260384	5.907135	6.472055	43.913625	14.056363	
10	0.124215	18.809777	0.558277	0.054613	37.482082	7.591505	
11	34.941034	16.047049	35.375253	34.815595	2.688715	27.286847	
12	8.191611	27.115621	7.757160	8.321784	45.769724	15.906661	
13	14.101475	22.588523	14.141213	14.136788	38.529077	15.936228	
14	4.058594	14.878786	4.493291	3.929631	33.558786	3.659567	
15	0.420587	18.924295	0.611589	0.447682	37.582678	7.736172	
16	0.060985	18.899527	0.471502	0.105864	37.572862	7.678863	
17	1.098061	17.848820	1.528543	0.982377	36.514848	6.649207	
18	0.000000	18.932731	0.434879	0.143307	37.604387	7.715372	
19	18.932731	0.000000	19.367579	18.805229	18.692619	11.247374	
20	0.434879	19.367579	0.000000	0.566690	38.038826	8.149608	
21	0.143307	18.805229	0.566690	0.000000	37.478426	7.585169	
22	37.604387	18.692619	38.038826	37.478426	0.000000	29.938565	
23	7.715372	11.247374	8.149608	7.585169	29.938565	0.000000	
24	0.241814	18.691704	0.676332	0.125406	37.364135	7.473577	
25	72.901326	67.887938	73.065242	72.894588	66.694816	70.794777	
26	0.612504	18.322037	1.046869	0.485366	36.995566	7.102887	

27	3.462776	15.477912	3.897187	3.333128	34.158613	4.252735
28	88.515844	86.064982	88.613766	88.530611	86.449906	87.550214
29	121.751996	121.577758	121.785341	121.786675	123.042212	121.849038
30	3.153464	18.267817	3.301250	3.163522	36.710557	7.650700
31	0.021608	18.911132	0.456474	0.124554	37.582797	7.693831
32	6.649654	12.329346	7.083126	6.518510	31.021072	1.083365
33	323.971628	307.148478	324.358409	323.877951	290.210962	317.342460
34	17.020259	2.201216	17.454636	16.890212	20.720578	9.305310
35	13.624171	32.546316	13.189645	13.754120	51.192554	21.338892
36	43.806967	24.874404	44.241829	43.679255	6.375538	36.111234
37	82.543953	81.864236	82.605297	82.570275	84.206014	82.263987
38	110.589614	100.960468	110.834643	110.554323	93.072921	106.820803
39	15.304416	13.679137	15.608143	15.248333	28.565261	11.845607
40	23.236162	4.737669	23.669592	23.104859	14.854953	15.524861
41	0.063038	18.871108	0.496539	0.100040	37.542356	7.654805
42	8.737814	19.181500	8.830876	8.757980	36.556186	10.846934
43	8.662485	10.292673	9.096486	8.537774	28.944123	1.368993
44	72.707029	66.019208	72.906566	72.688102	63.140758	69.930314
45	0.602072	18.334015	1.035885	0.473785	37.008057	7.113723
46	0.066807	18.866043	0.501546	0.090195	37.537628	7.649062
47	0.733975	18.202381	1.167857	0.605219	36.876791	6.981751
48	193.317841	185.188338	193.517671	193.298503	177.595608	190.298140
49	286.659991	285.167762	286.703639	286.691358	283.675969	286.425019
50	0.620847	18.314662	1.054888	0.492858	36.988563	7.094738
51	19.838983	1.026973	20.273827	19.710368	17.836111	12.135293
52	13.476457	5.742286	13.909230	13.344630	24.348160	5.778643
53	449.006389	447.143144	449.053253	449.036728	444.840080	448.674439
54	284.268595	282.799940	284.311826	284.300093	281.341830	284.041968
55	75.122112	78.809031	75.096646	75.085643	87.517650	75.560368
56	410.714514	409.217704	410.753852	410.747161	407.349436	410.523223
57	0.045669	18.887422	0.480280	0.102772	37.559287	7.669789
58	0.167333	18.766577	0.601531	0.065774	37.438977	7.548255
59	324.721596	323.158159	324.765161	324.752976	321.451400	324.475257
60	3.437437	18.333170	3.571385	3.451187	36.739934	7.805775
61	7.625514	18.205176	7.759970	7.632862	35.846839	9.522734
62	7.179815	19.153822	7.256372	7.206236	36.909916	10.048337
63	3.983162	18.782085	4.063169	4.001289	37.116493	8.404934
64	1.064307	17.874687	1.497054	0.945219	36.542940	6.669555
65	0.478539	18.462125	0.909216	0.370466	37.131066	7.252423
66	7.931689	11.003931	8.366348	7.805333	29.673495	0.725339
67	36.207343	17.542799	36.638658	36.086022	3.385813	28.658306
68	1.550807	17.381955	1.985630	1.424988	36.054177	6.169870
69	88.166915	69.261138	88.601031	88.041638	50.569068	80.507615
70	62.543202	49.161798	62.880812	62.472020	39.367004	57.083346
71	28.489376	9.556660	28.924227	28.361803	9.182242	20.797899
72	89.987799	71.071942	90.422145	89.862020	52.384023	82.319312
73	65.516836	46.597529	65.951300	65.390777	27.912537	57.844886

74	339.463439	337.076176	339.525282	339.489200	334.507362	338.886461
75	163.872356	144.964831	164.306438	163.747132	126.273730	156.211847
76	0.008017	18.940639	0.426959	0.150790	37.612252	7.723339
77	155.616113	154.212517	155.670047	155.644446	153.853886	155.289805
78	402.779803	402.128755	402.799951	402.818235	401.112063	402.931283
79	6.559246	12.381012	6.993980	6.430246	31.065666	1.174659
80	23.793511	5.456116	24.224845	23.672227	14.035650	16.271361
81	31.352371	15.327576	31.756174	31.250213	13.123295	24.587266
82	10.610713	10.604152	10.998275	10.518070	28.335516	5.597885
83	0.008012	18.940634	0.426963	0.150785	37.612248	7.723335
84	0.023535	18.956243	0.411359	0.164858	37.627860	7.738885
85	188.055620	170.579435	188.458397	187.953698	153.146274	181.114990
86	89.273831	81.913434	89.478236	89.253114	77.301971	86.333326
87	129.285939	127.829779	129.346555	129.312253	127.887905	128.881184
88	0.905537	18.029685	1.339881	0.777191	36.704015	6.809845
89	0.304344	18.630986	0.737984	0.180414	37.304104	7.411634
90	63.564558	62.799302	63.643066	63.585622	66.297322	63.089841
91	0.224181	18.709379	0.658660	0.109799	37.381792	7.491228
92	0.555207	18.384494	0.987551	0.425318	37.059262	7.162497
93	1.333123	17.602444	1.767578	1.204364	36.277637	6.382269
94	2.985189	15.973036	3.417856	2.853540	34.657173	4.736788
95	203.546041	222.140470	203.120734	203.662166	240.720431	211.000122
96	0.700273	18.233681	1.134493	0.579853	36.904334	7.021198
97	69.001058	68.352166	69.071705	69.024528	71.534503	68.628925
98	1.034470	17.904214	1.468045	0.904552	36.579961	6.681693
99	2.035925	20.968654	1.601079	2.164572	39.639180	9.747692
100	6.344377	12.591285	6.779223	6.215987	31.272823	1.403860
101	0.034701	18.898126	0.469461	0.114670	37.569718	7.681016
102	21.973232	3.063651	22.407912	21.846586	15.636897	14.302129
103	63.230299	45.358640	63.646526	63.120626	28.357295	56.047541
104	84.285327	67.090959	84.687008	84.184088	50.608705	77.411250
105	249.095545	230.663196	249.518626	248.981145	212.273459	241.711334
106	311.923944	296.464505	312.280556	311.844280	280.874652	305.892583
107	558.197590	551.815300	558.345945	558.195602	544.904179	556.026439
108	53.181985	35.807299	53.591754	53.076274	20.456332	46.169054
109	73.338765	55.887487	73.746406	73.234229	39.274893	66.343374
110	425.474117	409.184816	425.848193	425.386521	392.696697	419.090712
111	13.930211	5.861202	14.356644	13.813691	23.938578	6.756178

	24	25	26	27	28	29	\
0	2.946062	72.033446	2.575531	0.302096	88.134398	121.831675	
1	54.475992	61.754225	54.119487	51.373289	81.897007	118.365345	
2	3.503698	71.507654	3.134622	0.379955	87.677977	121.448106	
3	6.861311	73.684539	6.521275	4.116037	90.337757	124.498120	
4	1.217219	71.761833	0.978902	2.459019	87.520239	120.913897	
5	318.964280	246.521535	318.880096	318.206179	230.770913	201.791884	
6	452.997575	408.554632	452.656430	450.018864	412.596685	419.092296	

7	0.249784	72.903307	0.620473	3.470735	88.516575	121.751532
8	27.675598	67.676372	27.305547	24.458401	86.751304	122.929174
9	6.582894	75.140971	6.953588	9.803643	89.754606	121.992037
10	0.118088	72.870237	0.488634	3.338983	88.504172	121.758881
11	34.701074	66.102389	34.332937	31.499271	85.706611	122.221771
12	8.433351	76.030567	8.803997	11.654342	90.355037	122.287038
13	14.101587	59.614751	14.107059	14.429511	74.599088	107.650706
14	3.816963	71.598122	3.446487	0.600003	87.822208	121.638517
15	0.491863	72.591992	0.752806	3.495314	88.192023	121.422004
16	0.210185	72.935627	0.577505	3.426788	88.557684	121.799976
17	0.864810	72.331742	0.521243	2.402231	88.101360	121.492398
18	0.241814	72.901326	0.612504	3.462776	88.515844	121.751996
19	18.691704	67.887938	18.322037	15.477912	86.064982	121.577758
20	0.676332	73.065242	1.046869	3.897187	88.613766	121.785341
21	0.125406	72.894588	0.485366	3.333128	88.530611	121.786675
22	37.364135	66.694816	36.995566	34.158613	86.449906	123.042212
23	7.473577	70.794777	7.102887	4.252735	87.550214	121.849038
24	0.000000	72.826617	0.370695	3.221009	88.478434	121.750562
25	72.826617	0.000000	72.710887	71.838995	20.163906	56.795739
26	0.370695	72.710887	0.000000	2.850349	88.419623	121.746547
27	3.221009	71.838995	2.850349	0.000000	87.977285	121.712038
28	88.478434	20.163906	88.419623	87.977285	0.000000	36.686208
29	121.750562	56.795739	121.746547	121.712038	36.686208	0.000000
30	3.110966	69.764698	3.078982	4.109064	85.367853	118.668035
31	0.220301	72.892894	0.590979	3.441225	88.510667	121.750005
32	6.407869	71.215840	6.037278	3.191015	87.824024	121.987133
33	323.764635	272.969447	323.445999	320.978638	275.415439	280.257766
34	16.778493	69.196188	16.407828	13.557504	87.159301	122.490326
35	13.865888	78.551611	14.236507	17.086820	92.003321	122.989667
36	43.565874	69.208433	43.196094	40.350541	89.211093	125.892126
37	82.527181	21.255057	82.500097	82.306002	9.456733	39.728762
38	110.467801	42.255279	110.279459	108.826584	42.752053	60.911839
39	15.150697	58.958085	14.917425	13.297281	75.783475	110.358878
40	22.994374	69.635728	22.623770	19.775630	88.269800	124.119283
41	0.182347	72.865365	0.552342	3.402118	88.488531	121.733460
42	8.711363	64.346273	8.680997	8.931049	79.783441	113.077947
43	8.422874	69.581628	8.055428	5.237235	86.439606	120.847237
44	72.611872	6.575871	72.464793	71.349619	25.452770	61.615620
45	0.360373	72.730364	0.020110	2.861368	88.438084	121.763637
46	0.175826	72.872642	0.546320	3.396420	88.497065	121.742980
47	0.492215	72.688967	0.122349	2.729412	88.416877	121.761838
48	193.221934	120.918295	193.072887	191.908903	109.827040	94.152297
49	286.652420	217.637800	286.638463	286.505820	199.139892	164.973127
50	0.379069	72.718645	0.013675	2.842311	88.429040	121.757308
51	19.597543	68.262937	19.227292	16.378982	86.544921	122.135879
52	13.234770	70.329386	12.864379	10.019693	87.863011	122.830509
53	448.996918	379.389890	448.979907	448.818003	361.246517	327.342705

54	284.261259	215.283232	284.247665	284.117951	196.767704	162.577115
55	75.120915	146.106373	75.123339	75.244323	163.096333	196.869280
56	410.709263	341.586419	410.698744	410.587695	323.218687	288.982206
57	0.196216	72.889001	0.566909	3.417212	88.510631	121.753605
58	0.074874	72.855645	0.445380	3.295728	88.496198	121.757320
59	324.714038	255.559120	324.700055	324.565337	237.153999	203.029040
60	3.401171	69.494440	3.375836	4.356382	85.079884	118.370745
61	7.576589	65.315395	7.513369	7.594898	80.906745	114.309145
62	7.164744	65.942804	7.154710	7.659931	81.359478	114.592089
63	3.974658	69.162822	3.987483	5.054385	84.667111	117.892968
64	0.827850	72.395915	0.474814	2.419689	88.164340	121.552857
65	0.252639	72.641859	0.192359	3.000285	88.323184	121.626578
66	7.691139	70.069857	7.322255	4.489454	86.836223	121.156829
67	35.970234	63.533908	35.606336	32.805060	83.225642	119.790652
68	1.310056	72.308911	0.941671	1.918318	88.155812	121.617672
69	87.927068	87.043648	87.559066	84.725367	105.987946	140.432227
70	62.366852	35.162948	62.095484	60.015399	54.889147	90.845370
71	28.248332	67.286725	27.878629	25.033831	86.411713	122.625328
72	89.747662	88.900474	89.379239	86.542590	107.782959	142.121778
73	65.276541	75.140637	64.907895	62.069876	95.130548	131.243849
74	339.445644	269.246216	339.415957	339.159915	251.356165	218.138066
75	163.632545	147.980204	163.264586	160.430894	162.858829	190.482591
76	0.249788	72.903308	0.620477	3.470740	88.516576	121.751533
77	155.603028	87.228116	155.580954	155.399352	68.154109	34.502127
78	402.785252	334.874194	402.791141	402.806468	316.069729	281.101996
79	6.317648	70.875652	5.947202	3.098337	87.461860	121.611782
80	23.556421	64.646772	23.192614	20.394759	83.321185	119.233154
81	31.134909	55.915142	30.801038	28.245126	75.161383	111.498101
82	10.405081	65.199580	10.091469	7.819616	82.040879	116.510279
83	0.249784	72.903307	0.620473	3.470735	88.516575	121.751532
84	0.265317	72.909643	0.636011	3.486294	88.520572	121.753232
85	187.838450	146.890479	187.504449	184.922988	155.175067	172.555689
86	89.175695	18.375555	89.023807	87.861261	23.275624	53.625026
87	129.269218	61.193108	129.241720	129.024378	41.807502	10.937387
88	0.663733	72.618612	0.293042	2.557315	88.372131	121.742073
89	0.063967	72.821864	0.309047	3.159215	88.483804	121.765328
90	63.538439	16.801205	63.497433	63.212613	25.194525	58.890677
91	0.017687	72.833163	0.388343	3.238668	88.482306	121.751829
92	0.314632	72.771606	0.074112	2.910548	88.472909	121.791655
93	1.091353	72.476633	0.720711	2.129656	88.294929	121.727091
94	2.743585	72.145798	2.373444	0.513605	88.217960	121.887032
95	203.778580	251.689985	204.135841	206.895062	253.852996	264.928812
96	0.461965	72.597056	0.123914	2.768736	88.314906	121.652736
97	68.979258	16.302435	68.944734	68.704223	20.158190	53.324092
98	0.792750	72.610852	0.422585	2.429674	88.385177	121.774289
99	2.277062	73.708243	2.647119	5.496374	89.013400	121.943738
100	6.102949	70.848269	5.732749	2.886678	87.401088	121.522271

101	0.207584	72.885692	0.578208	3.428391	88.505310	121.746511
102	21.732605	67.141346	21.363514	18.523509	85.648952	121.420745
103	63.004299	59.375821	62.657101	59.981935	79.212022	115.131879
104	84.068965	61.593914	83.736334	81.171095	79.257792	112.458302
105	248.864664	215.263535	248.509961	245.772286	224.433357	241.759482
106	311.735617	253.975060	311.445341	309.193416	253.410337	253.145612
107	558.130877	485.350438	558.026157	557.188881	470.476352	442.166190
108	52.960386	54.698285	52.619926	49.999449	74.847168	111.342880
109	73.118519	58.980674	72.780021	70.170873	77.984486	112.819657
110	425.275037	370.162091	424.968384	422.590777	370.086515	369.413942
111	13.697211	66.246093	13.339884	10.609331	83.737246	118.723081
	30	31	32	33	34	35 \
0	4.024535	3.166348	3.461870	321.278526	13.835321	16.809113
1	53.275722	54.686976	48.390625	271.471673	38.530449	67.980380
2	4.109943	3.722874	2.951716	320.609777	13.287619	17.363140
3	8.211618	7.066139	2.517585	319.736596	10.840947	20.325884
4	2.291415	1.384573	5.600642	322.575091	15.898117	14.796217
5	315.864319	319.011112	317.711261	251.821043	315.364470	322.677117
6	451.385248	453.198951	447.167090	139.071294	437.522254	465.896194
7	3.154663	0.029520	6.657632	323.978183	17.028218	13.616219
8	27.214819	27.895295	21.295431	299.455111	10.942727	41.534801
9	7.672067	6.362613	12.990093	329.432356	23.360840	7.286365
10	3.136977	0.102897	6.525580	323.869469	16.896461	13.747882
11	34.025623	34.919450	28.369888	292.409146	18.099310	48.520959
12	9.449842	8.213171	14.838342	331.112571	25.211769	5.432689
13	11.033960	14.099473	15.632116	316.814086	21.801478	19.962741
14	4.475255	4.037019	2.605490	320.426485	12.962573	17.682630
15	2.846572	0.420488	6.681226	323.812577	17.032479	13.626682
16	3.193003	0.052555	6.611854	323.964668	16.984023	13.660127
17	2.851937	1.076711	5.592703	322.925072	15.949623	14.700377
18	3.153464	0.021608	6.649654	323.971628	17.020259	13.624171
19	18.267817	18.911132	12.329346	307.148478	2.201216	32.546316
20	3.301250	0.456474	7.083126	324.358409	17.454636	13.189645
21	3.163522	0.124554	6.518510	323.877951	16.890212	13.754120
22	36.710557	37.582797	31.021072	290.210962	20.720578	51.192554
23	7.650700	7.693831	1.083365	317.342460	9.305310	21.338892
24	3.110966	0.220301	6.407869	323.764635	16.778493	13.865888
25	69.764698	72.892894	71.215840	272.969447	69.196188	78.551611
26	3.078982	0.590979	6.037278	323.445999	16.407828	14.236507
27	4.109064	3.441225	3.191015	320.978638	13.557504	17.086820
28	85.367853	88.510667	87.824024	275.415439	87.159301	92.003321
29	118.668035	121.750005	121.987133	280.257766	122.490326	122.989667
30	0.000000	3.147148	6.771226	321.812646	16.575359	14.704968
31	3.147148	0.000000	6.628165	323.952251	16.998707	13.645735
32	6.771226	6.628165	0.000000	318.350552	10.377127	20.269608
33	321.812646	323.952251	318.350552	0.000000	309.349256	335.897755

34	16.575359	16.998707	10.377127	309.349256	0.000000	30.644100
35	14.704968	13.645735	20.269608	335.897755	30.644100	0.000000
36	43.006878	43.785369	37.190432	285.518447	26.832754	57.418905
37	79.424264	82.540592	82.440439	284.529733	82.762875	84.983131
38	107.595078	110.577165	107.477120	232.943641	102.749285	118.361668
39	12.592651	15.289226	12.266147	309.546621	13.511525	26.379956
40	22.819377	23.214671	16.586510	304.501969	6.252426	36.852464
41	3.123380	0.042126	6.589591	323.910574	16.959556	13.685042
42	5.604819	8.733361	10.392294	318.643692	17.991610	17.261896
43	8.146586	8.640910	2.305193	316.045776	8.470980	22.257623
44	69.613760	72.696838	70.441737	268.232406	67.487118	79.408827
45	3.096268	0.580606	6.047609	323.463902	16.418772	14.225456
46	3.131620	0.045271	6.583583	323.910510	16.953892	13.690605
47	3.094510	0.712492	5.915683	323.350171	16.286805	14.357415
48	190.224414	193.307602	190.867751	200.827313	186.898384	199.464241
49	283.559652	286.657465	286.625911	293.501298	286.293982	287.800797
50	3.089609	0.599358	6.028810	323.444479	16.399754	14.244510
51	19.240201	19.817394	13.213955	306.588646	2.894687	33.460260
52	13.271294	13.455007	6.828690	312.748813	3.628586	27.088269
53	445.901482	449.003698	448.893159	382.759149	448.326396	450.135797
54	281.168824	284.266090	284.241604	292.865057	283.923325	285.398975
55	78.201823	75.123819	75.272825	368.078994	77.239981	76.053767
56	407.619766	410.712197	410.721817	362.120347	410.361347	411.626467
57	3.145947	0.024414	6.604021	323.933572	16.974693	13.669708
58	3.128426	0.145922	6.482368	323.831781	16.853207	13.791138
59	321.621249	324.719073	324.679166	309.875219	324.298085	325.823441
60	0.299736	3.431720	6.948479	321.693289	16.664305	14.741513
61	4.472147	7.619060	9.044007	318.752736	16.924882	17.167229
62	4.077465	7.176305	9.468079	319.839697	17.809230	16.068025
63	1.289631	3.980020	7.575377	321.769811	17.149975	14.545740
64	2.909004	1.042819	5.610698	322.974838	15.971577	14.676309
65	2.965442	0.457283	6.190484	323.512147	16.555910	14.090348
66	7.572685	7.910092	1.532685	316.821771	9.137484	21.542769
67	35.065458	36.185878	29.739361	290.172811	19.685057	49.691163
68	3.074486	1.529208	5.109176	322.580669	15.473253	15.172660
69	87.160063	88.145335	81.590065	245.904271	71.269425	101.733299
70	59.974518	62.526229	57.940618	263.111024	51.173852	73.309311
71	27.740361	28.467778	21.878331	298.762491	11.544965	42.101573
72	89.009323	89.966211	83.401214	244.840028	73.068643	103.564899
73	64.574745	65.495245	58.926663	265.866779	48.594695	79.101747
74	336.341353	339.460009	339.136308	304.806764	338.299461	341.126112
75	162.838252	163.850777	157.294103	186.067554	146.965253	177.433386
76	3.154665	0.029525	6.657636	323.978186	17.028222	13.616214
77	152.503567	155.613091	155.492894	269.082033	155.281823	157.337225
78	399.715012	402.778438	403.082221	370.560706	403.186417	403.094562
79	6.518850	6.537668	0.383295	318.236405	10.463619	20.183046
80	22.716756	23.772046	17.349199	301.697441	7.655411	37.294742

81	29.509733	31.332199	25.586627	292.766571	17.413434	44.133504
82	8.735065	10.591388	6.121811	313.361050	9.507009	23.434268
83	3.154663	0.029520	6.657632	323.978183	17.028218	13.616219
84	3.159596	0.045116	6.673138	323.992301	17.043777	13.600648
85	186.114633	188.035479	182.152284	137.639719	172.774529	200.537614
86	86.188512	89.263390	86.874555	255.866082	83.480428	95.959268
87	126.166116	129.282592	129.090455	271.036167	128.882747	131.328413
88	3.083050	0.884004	5.744390	323.193122	16.114791	14.529526
89	3.117948	0.282956	6.345504	323.719227	16.716653	13.927608
90	60.429167	63.560363	63.280293	289.770445	63.643914	66.822751
91	3.114617	0.202678	6.425487	323.780341	16.796151	13.848224
92	3.125620	0.533900	6.095579	323.519679	16.467675	14.176463
93	3.128930	1.311575	5.317398	322.819329	15.687145	14.957218
94	3.947770	2.963761	3.666148	321.483830	14.041461	16.603638
95	205.056097	203.567241	209.921026	523.132606	220.043540	190.373751
96	2.984816	0.678705	5.958536	323.328114	16.325125	14.320439
97	65.872362	68.997247	68.809631	288.432987	69.206349	71.921467
98	3.127342	1.013004	5.615237	323.099706	15.986843	14.657308
99	4.219663	2.057523	8.678682	325.793528	19.052948	11.591314
100	6.287041	6.322788	0.549493	318.381020	10.682424	19.966981
101	3.141197	0.013222	6.615444	323.939553	16.985869	13.658602
102	21.215120	21.951635	15.384888	304.280904	5.183939	35.576727
103	61.565397	63.209526	57.102799	262.009564	47.551241	76.230543
104	82.346912	84.265243	78.438378	240.057886	69.291757	96.816773
105	247.554115	249.074449	242.785460	101.423513	232.797044	262.239953
106	309.475191	311.906024	306.836674	44.441402	298.642191	322.880421
107	555.050860	558.189876	556.494875	389.104745	553.420100	562.479673
108	51.399417	53.161519	47.206369	271.344503	38.007870	66.017934
109	71.501785	73.318398	67.381693	251.293883	58.087422	86.067195
110	423.178248	425.455351	420.073933	103.945489	411.381866	436.970015
111	12.774550	13.908973	7.771832	310.586440	4.916935	27.356181

	36	37	38	39	40	41	\
0	40.634899	82.439622	109.068767	13.539664	20.048370	3.127870	
1	14.833980	81.719986	80.279254	42.877849	33.195525	54.645124	
2	40.062825	82.028734	108.461325	12.932917	19.515807	3.682743	
3	37.572379	84.956501	109.750146	14.726511	16.804907	7.036153	
4	42.625673	81.637688	109.301038	13.944919	22.137746	1.343789	
5	308.921891	237.756149	216.142591	305.466165	315.026495	318.986639	
6	412.053247	421.516947	369.878203	439.605965	432.140587	453.156828	
7	43.814874	82.544000	110.593188	15.309123	23.244140	0.070574	
8	15.895210	83.466582	97.734898	20.606402	5.102572	27.855467	
9	50.133683	83.264589	113.946862	19.986617	29.576318	6.401567	
10	43.683953	82.542928	110.533748	15.231251	23.112090	0.068644	
11	9.050673	83.188847	93.592306	25.966197	12.345235	34.878892	
12	51.989227	83.725330	115.108655	21.601937	31.423104	8.252431	
13	44.865591	68.476061	98.607493	9.967177	27.255657	14.082982	

14	39.751820	82.203204	108.465233	12.946081	19.184234	3.997614
15	43.796927	82.216062	110.311589	15.062506	23.258087	0.413029
16	43.773562	82.589434	110.612475	15.317722	23.198269	0.070325
17	42.723142	82.218771	109.832015	14.438318	22.174046	1.035130
18	43.806967	82.543953	110.589614	15.304416	23.236162	0.063038
19	24.874404	81.864236	100.960468	13.679137	4.737669	18.871108
20	44.241829	82.605297	110.834643	15.608143	23.669592	0.496539
21	43.679255	82.570275	110.554323	15.248333	23.104859	0.100040
22	6.375538	84.206014	93.072921	28.565261	14.854953	37.542356
23	36.111234	82.263987	106.820803	11.845607	15.524861	7.654805
24	43.565874	82.527181	110.467801	15.150697	22.994374	0.182347
25	69.208433	21.255057	42.255279	58.958085	69.635728	72.865365
26	43.196094	82.500097	110.279459	14.917425	22.623770	0.552342
27	40.350541	82.306002	108.826584	13.297281	19.775630	3.402118
28	89.211093	9.456733	42.752053	75.783475	88.269800	88.488531
29	125.892126	39.728762	60.911839	110.358878	124.119283	121.733460
30	43.006878	79.424264	107.595078	12.592651	22.819377	3.123380
31	43.785369	82.540592	110.577165	15.289226	23.214671	0.042126
32	37.190432	82.440439	107.477120	12.266147	16.586510	6.589591
33	285.518447	284.529733	232.943641	309.546621	304.501969	323.910574
34	26.832754	82.762875	102.749285	13.511525	6.252426	16.959556
35	57.418905	84.983131	118.361668	26.379956	36.852464	13.685042
36	0.000000	87.563015	92.906414	34.898957	20.776017	43.745384
37	87.563015	0.000000	51.654177	70.693149	84.479457	82.521611
38	92.906414	51.654177	0.000000	95.529535	101.197241	110.543506
39	34.898957	70.693149	95.529535	0.000000	18.071185	15.251868
40	20.776017	84.479457	101.197241	18.071185	0.000000	23.176067
41	43.745384	82.521611	110.543506	15.251868	23.176067	0.000000
42	42.930860	73.819671	102.618343	9.254347	23.918501	8.712581
43	35.161529	81.232805	105.486047	10.673694	14.722956	8.600248
44	65.170152	27.648343	39.450932	58.201236	67.354237	72.666545
45	43.207992	82.517804	110.299540	14.937400	22.634119	0.542503
46	43.740289	82.530737	110.548814	15.255490	23.170080	0.011490
47	43.076309	82.507918	110.232167	14.855222	22.502192	0.674200
48	177.169832	118.623457	84.580754	178.690229	185.641296	193.277230
49	285.251502	204.204911	196.661502	274.762190	287.197750	286.639958
50	43.188663	82.510325	110.284637	14.920809	22.615317	0.561037
51	23.976563	82.433201	101.014682	14.621413	3.711017	19.777710
52	30.445652	83.117834	104.836735	12.725431	9.764671	13.416713
53	446.045767	366.512463	355.225257	436.974287	449.025061	448.985893
54	282.930759	201.818261	194.433532	272.381747	284.836715	284.248620
55	89.584263	157.547846	179.341158	87.371805	78.167641	75.139873
56	408.717422	328.293928	318.585173	398.861420	411.194049	410.695061
57	43.761640	82.542647	110.568263	15.276723	23.190530	0.024929
58	43.640745	82.538632	110.510841	15.202802	23.068877	0.109614
59	322.923773	242.262931	233.559596	312.805148	325.151604	324.701568
60	43.043587	79.130016	107.359180	12.417512	22.902934	3.408945

61	42.215642	75.010849	103.352810	9.213274	22.933789	7.594881
62	43.275600	75.364416	104.170383	10.314227	23.871726	7.157204
63	43.429528	78.680677	107.142294	12.415418	23.371884	3.962072
64	42.749089	82.280420	109.895209	14.499546	22.194068	1.001650
65	43.336524	82.389662	110.250525	14.916291	22.775913	0.415540
66	35.878009	81.564925	106.113199	11.122112	15.383920	7.869811
67	8.974858	80.887994	90.695791	26.127605	14.341136	36.144592
68	42.256228	82.315692	109.702147	14.255080	21.693741	1.489157
69	44.470664	108.256203	90.023822	77.653059	65.246652	88.104731
70	39.414841	56.163348	53.711819	47.393094	48.559500	62.486737
71	15.317836	83.192206	97.163525	20.881830	5.780543	28.427761
72	46.251444	110.123016	91.310677	79.573663	67.023686	89.925718
73	21.790356	95.604075	88.654880	55.484064	42.566324	65.454820
74	335.680408	256.920103	244.984793	327.137757	338.873171	339.440897
75	120.145274	168.241014	130.123304	152.998026	140.912432	163.810159
76	43.814878	82.544001	110.593190	15.309126	23.244144	0.070578
77	156.021416	73.094690	76.299151	143.632740	156.407148	155.594705
78	402.766030	320.685372	313.950824	391.375598	404.297642	402.763021
79	37.252599	82.068317	107.190828	11.933309	16.691117	6.498197
80	20.384583	79.624612	96.452286	15.281121	4.991166	23.730760
81	18.573716	72.225387	86.340349	18.516078	14.858714	31.290135
82	34.688100	76.875135	101.371554	6.270151	15.341548	10.549749
83	43.814874	82.544000	110.593188	15.309123	23.244140	0.070574
84	43.830482	82.546689	110.602399	15.320299	23.259646	0.086042
85	148.228721	163.068416	113.838098	174.197642	167.663469	187.993424
86	78.522946	30.496067	23.940700	74.664730	82.921472	89.232712
87	130.283364	46.742287	57.498282	117.216106	130.076602	129.263633
88	42.903644	82.477765	110.129417	14.735346	22.330857	0.845212
89	43.505074	82.538008	110.449574	15.123275	22.932012	0.245853
90	70.169239	19.191217	58.533440	51.502257	65.558962	63.539927
91	43.583550	82.529556	110.477692	15.162746	23.011994	0.164940
92	43.258338	82.548743	110.347882	14.989153	22.682041	0.496908
93	42.476296	82.437341	109.903141	14.468395	21.903746	1.272564
94	40.843634	82.505561	109.219289	13.691945	20.252093	2.925663
95	246.625761	244.401433	293.550794	216.368167	225.895316	203.609070
96	43.108026	82.401490	110.157764	14.793668	22.544269	0.638054
97	75.256123	13.636936	56.239483	57.059793	71.079677	68.977479
98	42.777917	82.502186	110.093173	14.683761	22.201745	0.974754
99	45.842887	82.872553	111.765000	16.790896	25.263919	2.097580
100	37.464323	81.987215	107.221055	11.918656	16.912972	6.283114
101	43.772370	82.536292	110.567778	15.278437	23.201947	0.029083
102	21.844020	81.759507	99.295994	15.413934	2.846040	21.911374
103	24.542099	80.147016	73.105033	50.456309	42.500138	63.167424
104	46.690367	82.735872	61.129092	70.539222	64.526151	84.223207
105	206.621062	232.147581	183.305317	236.390625	227.125326	249.032513
106	276.898563	262.792007	212.271359	296.933817	294.408771	311.865548
107	544.451468	477.753847	451.846582	544.229215	552.559169	558.163497

108	18.581437	74.657915	74.571559	40.093299	33.419799	53.119397
109	35.455774	80.203903	66.173153	59.936176	53.233526	73.276288
110	388.224678	379.452859	328.715287	410.754284	406.756340	425.414120
111	30.247907	79.006475	101.091875	8.839076	10.598348	13.867194
	42	43	44	45	46	47 \
0	8.983245	5.532509	71.564382	2.585767	3.121804	2.453857
1	51.880396	46.160577	56.769248	54.134471	54.642180	54.007433
2	8.748466	4.924249	71.002622	3.147011	3.677758	3.015714
3	12.560704	4.265312	72.855617	6.524154	7.027157	6.404014
4	7.836042	7.465507	71.497863	0.998992	1.344998	0.934938
5	310.324422	316.101575	247.877926	318.899074	318.994669	318.868585
6	448.847213	444.890738	403.401949	452.672948	453.155267	452.551263
7	8.738283	8.670316	72.709700	0.610053	0.074665	0.741952
8	27.643204	19.283199	64.977851	27.317265	27.850256	27.185495
9	11.434030	14.973475	75.464164	6.942928	6.407346	7.074894
10	8.731060	8.540661	72.665219	0.477973	0.060061	0.609910
11	33.882567	26.279091	62.777669	34.345592	34.874267	34.214477
12	12.829640	16.829427	76.491401	8.793017	8.258022	8.924984
13	5.514555	15.475458	59.956664	14.123747	14.092521	14.127311
14	9.024765	4.638529	71.059399	3.457859	3.992108	3.325977
15	8.415120	8.642107	72.409405	0.751701	0.420333	0.862491
16	8.781206	8.632127	72.736649	0.565671	0.063844	0.697522
17	8.414519	7.571082	72.054777	0.538907	1.031705	0.429019
18	8.737814	8.662485	72.707029	0.602072	0.066807	0.733975
19	19.181500	10.292673	66.019208	18.334015	18.866043	18.202381
20	8.830876	9.096486	72.906566	1.035885	0.501546	1.167857
21	8.757980	8.537774	72.688102	0.473785	0.090195	0.605219
22	36.556186	28.944123	63.140758	37.008057	37.537628	36.876791
23	10.846934	1.368993	69.930314	7.113723	7.649062	6.981751
24	8.711363	8.422874	72.611872	0.360373	0.175826	0.492215
25	64.346273	69.581628	6.575871	72.730364	72.872642	72.688967
26	8.680997	8.055428	72.464793	0.020110	0.546320	0.122349
27	8.931049	5.237235	71.349619	2.861368	3.396420	2.729412
28	79.783441	86.439606	25.452770	88.438084	88.497065	88.416877
29	113.077947	120.847237	61.615620	121.763637	121.742980	121.761838
30	5.604819	8.146586	69.613760	3.096268	3.131620	3.094510
31	8.733361	8.640910	72.696838	0.580606	0.045271	0.712492
32	10.392294	2.305193	70.441737	6.047609	6.583583	5.915683
33	318.643692	316.045776	268.232406	323.463902	323.910510	323.350171
34	17.991610	8.470980	67.487118	16.418772	16.953892	16.286805
35	17.261896	22.257623	79.408827	14.225456	13.690605	14.357415
36	42.930860	35.161529	65.170152	43.207992	43.740289	43.076309
37	73.819671	81.232805	27.648343	82.517804	82.530737	82.507918
38	102.618343	105.486047	39.450932	110.299540	110.548814	110.232167
39	9.254347	10.673694	58.201236	14.937400	15.255490	14.855222
40	23.918501	14.722956	67.354237	22.634119	23.170080	22.502192

41	8.712581	8.600248	72.666545	0.542503	0.011490	0.674200
42	0.000000	10.629094	64.362009	8.698612	8.721393	8.690822
43	10.629094	0.000000	68.663260	8.068364	8.595719	7.937569
44	64.362009	68.663260	0.000000	72.484636	72.673024	72.432075
45	8.698612	8.068364	72.484636	0.000000	0.536181	0.131978
46	8.721393	8.595719	72.673024	0.536181	0.000000	0.667995
47	8.690822	7.937569	72.432075	0.131978	0.667995	0.000000
48	184.948908	188.998369	120.611152	193.092752	193.283682	193.039255
49	277.960016	285.365971	220.592646	286.655839	286.649327	286.650351
50	8.691320	8.048760	72.471509	0.019976	0.554833	0.113190
51	20.207677	11.223102	66.303038	19.238849	19.772398	19.107014
52	15.377508	5.133269	68.934411	12.874408	13.410555	12.742567
53	440.299971	447.599933	382.018690	448.997367	448.995214	448.990752
54	275.569436	282.983971	218.252436	284.265031	284.257994	284.259673
55	83.793692	76.698771	144.695754	75.106254	75.130274	75.108170
56	402.022556	409.465165	344.380485	410.716027	410.704489	410.711729
57	8.734222	8.617537	72.690790	0.556429	0.023281	0.688339
58	8.725149	8.497647	72.647011	0.434763	0.102126	0.566689
59	316.021571	323.413408	258.421113	324.717432	324.710938	324.711922
60	5.311295	8.258407	69.356945	3.392988	3.417393	3.392709
61	1.360083	9.358564	65.229451	7.531752	7.602994	7.512774
62	1.596952	10.018618	65.947500	7.171721	7.166327	7.171952
63	4.964413	8.805951	69.074978	4.003096	3.970841	4.014938
64	8.475063	7.599844	72.118915	0.491581	0.997658	0.375731
65	8.570246	8.188024	72.412293	0.195792	0.412446	0.303508
66	10.414429	0.778742	69.206246	7.334659	7.864948	7.203341
67	34.468996	27.567976	60.098714	35.620119	36.140731	35.490491
68	8.550886	7.113765	71.987245	0.954661	1.484106	0.824255
69	86.413941	79.504589	80.874883	87.571762	88.100147	87.440682
70	56.113191	55.715354	29.437308	62.114920	62.489006	62.018134
71	28.066409	19.844860	64.537699	27.890578	28.422691	27.758925
72	88.310697	81.326468	82.710092	89.391781	89.921035	89.260556
73	64.046253	56.856611	69.732138	64.920350	65.450079	64.789051
74	330.736579	337.787976	271.761073	339.433746	339.449997	339.422643
75	161.914588	155.209964	141.415929	163.277294	163.805588	163.146225
76	8.738284	8.670320	72.709702	0.610057	0.074669	0.741956
77	146.900015	154.231442	90.852410	155.598542	155.603930	155.590258
78	394.136526	401.913090	337.988928	402.807954	402.772707	402.809498
79	10.028548	2.214001	70.119307	5.958584	6.492737	5.826698
80	22.617449	15.158719	62.373262	23.206425	23.726898	23.076853
81	27.598344	23.281468	53.135556	30.818109	31.289046	30.699195
82	8.577767	4.403766	64.344477	10.109687	10.549763	9.998698
83	8.738283	8.670316	72.709700	0.610053	0.074665	0.741952
84	8.741800	8.685921	72.717297	0.625544	0.090270	0.757455
85	183.424146	179.859095	141.094975	187.521486	187.992377	187.402341
86	80.955496	85.049464	16.600625	89.043694	89.239069	88.989351
87	120.561428	127.818871	65.203674	129.259446	129.272760	129.249273

88	8.666045	7.764887	72.347727	0.304359	0.839300	0.172778
89	8.720635	8.363391	72.601380	0.297935	0.238943	0.429903
90	54.827667	62.050094	22.027347	63.515480	63.548791	63.500753
91	8.714241	8.440507	72.619874	0.377957	0.158287	0.509819
92	8.729237	8.120215	72.529105	0.055797	0.490031	0.182670
93	8.652267	7.339931	72.169762	0.731976	1.266794	0.600124
94	8.995161	5.744961	71.692750	2.383216	2.919392	2.251464
95	207.116130	212.121488	255.774412	204.120977	203.612067	204.248347
96	8.583459	7.962221	72.346998	0.143793	0.633514	0.116339
97	60.268192	67.596288	22.454525	68.962626	68.986465	68.950167
98	8.696560	7.642522	72.328011	0.432401	0.968540	0.300557
99	9.362055	10.695998	73.678311	2.635538	2.102614	2.767392
100	9.843334	2.388783	70.113461	5.744388	6.277792	5.612594
101	8.728445	8.627796	72.688665	0.567944	0.032194	0.699799
102	21.786427	13.319305	64.996452	21.375788	21.906495	21.244351
103	59.648574	54.831068	53.764464	62.673112	63.165356	62.549357
104	79.788425	76.139312	55.101100	83.753467	84.222241	83.634852
105	245.621174	240.560193	209.255229	248.525162	249.029773	248.398714
106	305.709282	304.547779	249.997360	311.464308	311.866990	311.360618
107	549.568069	554.778492	486.155575	558.045483	558.171070	558.007650
108	49.309493	44.914263	49.768757	52.636513	53.117860	52.515166
109	69.187733	65.089941	52.811395	72.796752	73.274905	72.676069
110	419.718552	417.770554	365.977089	424.986803	425.414732	424.877303
111	13.320311	5.473127	64.926037	13.354799	13.864097	13.227630

	48	49	50	51	52	53	\
0	192.129794	286.636596	2.566996	16.661558	10.288989	448.952011	
1	163.953383	274.704429	54.114568	35.662995	42.101206	434.786893	
2	191.557285	286.230684	3.127538	16.097249	9.770214	448.539679	
3	193.234055	289.143134	6.509352	13.735056	7.223616	451.410742	
4	192.104779	285.791256	0.983785	18.683632	12.407432	448.128419	
5	133.844681	66.195952	318.888789	314.149148	316.735472	147.340303	
6	339.069336	420.386877	452.653111	434.663747	441.069843	480.149040	
7	193.320530	286.659725	0.628825	19.846913	13.484440	449.006185	
8	182.280553	285.308327	27.297991	8.081478	14.563345	446.947573	
9	195.950839	286.962393	6.961840	26.173992	19.814606	449.332317	
10	193.275689	286.663761	0.496822	19.715626	13.352301	449.009192	
11	178.161381	283.369416	34.326057	15.208566	21.727436	444.677923	
12	196.897621	287.240131	8.812045	28.027931	21.659831	449.607428	
13	180.414930	272.562826	14.118121	23.601511	19.736555	434.912215	
14	191.601739	286.407007	3.438687	15.781171	9.431943	448.711828	
15	193.020182	286.330307	0.764300	19.838592	13.506925	448.676873	
16	193.347319	286.707021	0.584928	19.804512	13.437764	449.053117	
17	192.660099	286.371317	0.519430	18.759887	12.421031	448.708847	
18	193.317841	286.659991	0.620847	19.838983	13.476457	449.006389	
19	185.188338	285.167762	18.314662	1.026973	5.742286	447.143144	
20	193.517671	286.703639	1.054888	20.273827	13.909230	449.053253	

21	193.298503	286.691358	0.492858	19.710368	13.344630	449.036728
22	177.595608	283.675969	36.988563	17.836111	24.348160	444.840080
23	190.298140	286.425019	7.094738	12.135293	5.778643	448.674439
24	193.221934	286.652420	0.379069	19.597543	13.234770	448.996918
25	120.918295	217.637800	72.718645	68.262937	70.329386	379.389890
26	193.072887	286.638463	0.013675	19.227292	12.864379	448.979907
27	191.908903	286.505820	2.842311	16.378982	10.019693	448.818003
28	109.827040	199.139892	88.429040	86.544921	87.863011	361.246517
29	94.152297	164.973127	121.757308	122.135879	122.830509	327.342705
30	190.224414	283.559652	3.089609	19.240201	13.271294	445.901482
31	193.307602	286.657465	0.599358	19.817394	13.455007	449.003698
32	190.867751	286.625911	6.028810	13.213955	6.828690	448.893159
33	200.827313	293.501298	323.444479	306.588646	312.748813	382.759149
34	186.898384	286.293982	16.399754	2.894687	3.628586	448.326396
35	199.464241	287.800797	14.244510	33.460260	27.088269	450.135797
36	177.169832	285.251502	43.188663	23.976563	30.445652	446.045767
37	118.623457	204.204911	82.510325	82.433201	83.117834	366.512463
38	84.580754	196.661502	110.284637	101.014682	104.836735	355.225257
39	178.690229	274.762190	14.920809	14.621413	12.725431	436.974287
40	185.641296	287.197750	22.615317	3.711017	9.764671	449.025061
41	193.277230	286.639958	0.561037	19.777710	13.416713	448.985893
42	184.948908	277.960016	8.691320	20.207677	15.377508	440.299971
43	188.998369	285.365971	8.048760	11.223102	5.133269	447.599933
44	120.611152	220.592646	72.471509	66.303038	68.934411	382.018690
45	193.092752	286.655839	0.019976	19.238849	12.874408	448.997367
46	193.283682	286.649327	0.554833	19.772398	13.410555	448.995214
47	193.039255	286.650351	0.113190	19.107014	12.742567	448.990752
48	0.000000	128.383786	193.079516	185.297958	188.780340	277.595136
49	128.383786	0.000000	286.648989	285.621918	286.979712	162.370002
50	193.079516	286.648989	0.000000	19.219624	12.855729	448.990359
51	185.297958	285.621918	19.219624	0.000000	6.520144	447.567364
52	188.780340	286.979712	12.855729	6.520144	0.000000	449.107852
53	277.595136	162.370002	448.990359	447.567364	449.107852	0.000000
54	126.554583	2.408813	284.258199	283.255515	284.604015	164.766964
55	263.808086	361.737666	75.112576	78.624785	75.808671	524.059560
56	242.834190	124.099493	410.709347	409.661941	411.069663	39.017098
57	193.301490	286.660463	0.575220	19.793550	13.430810	449.006507
58	193.257341	286.661098	0.453589	19.672385	13.309128	449.006189
59	161.471369	38.061710	324.710579	323.605070	325.005641	124.320597
60	189.967026	283.263556	3.386570	19.310571	13.389163	445.605790
61	185.833870	279.171878	7.522890	19.228144	14.194682	441.506027
62	186.538053	279.488464	7.165542	20.173384	14.967678	441.832334
63	189.677288	282.793817	3.998670	19.765263	13.920535	445.138828
64	192.724201	286.432395	0.471820	18.784219	12.439359	448.770102
65	193.021584	286.522652	0.205604	19.370705	13.018922	448.865388
66	189.578509	285.720741	7.315186	11.920965	5.711682	447.967221
67	175.262920	280.677479	35.600350	16.802461	23.283961	441.932191

68	192.586619	286.481741	0.935026	18.288981	11.937854	448.814771
69	166.557219	286.244501	87.552217	68.394631	74.891845	442.977711
70	138.231788	246.511049	62.096881	49.014501	53.849979	406.886437
71	181.716140	284.910234	27.871234	8.669519	15.170563	446.525073
72	167.330570	287.390208	89.372275	70.198403	76.688220	443.916163
73	170.503388	284.763198	64.900866	45.723530	52.215339	443.879955
74	169.198447	54.425216	339.426106	337.480915	339.164369	110.371036
75	178.354893	306.630870	163.257747	144.094237	150.584825	451.484053
76	193.320532	286.659726	0.628829	19.846917	13.484444	449.006185
77	71.703862	131.135268	155.591293	154.697787	155.890242	293.418758
78	241.023365	117.558905	402.802111	402.614393	403.734265	53.148635
79	190.557592	286.255492	5.939412	13.280672	6.951500	448.524368
80	180.839416	282.218757	23.186651	5.010827	11.098371	444.036534
81	170.802391	273.521108	30.798385	15.122911	20.400504	435.120324
82	184.748418	280.986987	10.090437	11.630562	7.415469	443.212882
83	193.320530	286.659725	0.628825	19.846913	13.484440	449.006185
84	193.328158	286.661808	0.644336	19.862508	13.499913	449.008387
85	132.168526	259.032483	187.501753	169.957583	176.259334	395.999616
86	104.053560	206.770543	89.030349	82.131047	85.105515	367.582632
87	83.263079	157.547533	129.251931	128.324415	129.473985	319.805929
88	192.953563	286.625671	0.285116	18.934515	12.571687	448.964578
89	193.211153	286.665558	0.316913	19.536336	13.172165	449.009552
90	133.869869	223.346041	63.507322	63.395379	63.939961	385.626615
91	193.230003	286.654143	0.396684	19.615219	13.252360	448.998782
92	193.137459	286.685174	0.075415	19.288697	12.921816	449.027102
93	192.771226	286.597830	0.712806	18.506891	12.145125	448.932845
94	192.262793	286.699999	2.364629	16.869679	10.491391	449.017767
95	358.718962	398.970189	204.140872	222.937708	216.419224	547.810457
96	192.954810	286.542430	0.127337	19.141205	12.786842	448.883208
97	129.532751	217.823955	68.954784	68.942743	69.506422	380.117972
98	192.932517	286.654092	0.413728	18.807955	12.442021	448.991841
99	194.279780	286.892265	2.654758	21.874382	15.501485	449.251668
100	190.564511	286.178018	5.725134	13.494607	7.177601	448.450386
101	193.299402	286.653655	0.586652	19.804451	13.442349	448.999789
102	183.656723	284.640036	21.356352	2.318260	8.788253	446.514270
103	155.972243	268.760117	62.653217	44.729075	51.055248	428.213273
104	139.833863	257.612982	83.733759	66.532950	72.703377	415.099739
105	191.403226	312.218967	248.505251	229.907213	236.403583	434.527930
106	167.194706	250.931703	311.445653	296.033313	301.829515	338.801083
107	367.316688	289.002489	558.034235	551.994610	555.046618	162.242888
108	158.670355	268.221768	52.616687	35.267986	41.410234	428.541269
109	147.524487	262.704618	72.776951	55.306445	61.532176	421.298525
110	280.945294	344.189850	424.967679	408.673720	414.705231	391.875027
111	184.911604	282.853643	13.334901	6.887416	4.126143	444.982440

54	55	56	57	58	59	\
0	284.248437	75.108794	410.716773	3.142192	3.020529	324.696455

1	272.409281	104.299029	397.733134	54.664895	54.549391	312.166117
2	283.843097	75.525145	410.314122	3.699223	3.578567	324.289843
3	286.758776	72.759402	413.238914	7.042373	6.927932	327.196491
4	283.400948	75.958596	409.855902	1.367718	1.276687	323.852728
5	67.439119	392.540765	116.974757	319.009455	318.986943	61.760018
6	420.131380	487.568082	467.489089	453.178345	453.068550	430.469310
7	284.268321	75.122685	410.714170	0.053651	0.175317	324.721329
8	282.955434	81.666298	409.223131	27.871503	27.750458	323.213167
9	284.565453	75.399597	410.934184	6.386684	6.508265	325.015146
10	284.272485	75.113721	410.719483	0.078590	0.043257	324.725376
11	281.029809	86.466844	407.119932	34.896008	34.775890	321.184628
12	284.841806	75.417950	411.180051	8.237160	8.358618	325.287261
13	270.171087	89.222263	396.614597	14.103095	14.107477	310.624358
14	284.019777	75.357753	410.492299	4.013091	3.891762	324.465676
15	283.938910	75.451732	410.384626	0.426137	0.462225	324.391917
16	284.315662	75.073653	410.761917	0.047151	0.136558	324.768629
17	283.980964	75.379568	410.435569	1.054240	0.938074	324.432802
18	284.268595	75.122112	410.714514	0.045669	0.167333	324.721596
19	282.799940	78.809031	409.217704	18.887422	18.766577	323.158159
20	284.311826	75.096646	410.753852	0.480280	0.601531	324.765161
21	284.300093	75.085643	410.747161	0.102772	0.065774	324.752976
22	281.341830	87.517650	407.349436	37.559287	37.438977	321.451400
23	284.041968	75.560368	410.523223	7.669789	7.548255	324.475257
24	284.261259	75.120915	410.709263	0.196216	0.074874	324.714038
25	215.283232	146.106373	341.586419	72.889001	72.855645	255.559120
26	284.247665	75.123339	410.698744	0.566909	0.445380	324.700055
27	284.117951	75.244323	410.587695	3.417212	3.295728	324.565337
28	196.767704	163.096333	323.218687	88.510631	88.496198	237.153999
29	162.577115	196.869280	288.982206	121.753605	121.757320	203.029040
30	281.168824	78.201823	407.619766	3.145947	3.128426	321.621249
31	284.266090	75.123819	410.712197	0.024414	0.145922	324.719073
32	284.241604	75.272825	410.721817	6.604021	6.482368	324.679166
33	292.865057	368.078994	362.120347	323.933572	323.831781	309.875219
34	283.923325	77.239981	410.361347	16.974693	16.853207	324.298085
35	285.398975	76.053767	411.626467	13.669708	13.791138	325.823441
36	282.930759	89.584263	408.717422	43.761640	43.640745	322.923773
37	201.818261	157.547846	328.293928	82.542647	82.538632	242.262931
38	194.433532	179.341158	318.585173	110.568263	110.510841	233.559596
39	272.381747	87.371805	398.861420	15.276723	15.202802	312.805148
40	284.836715	78.167641	411.194049	23.190530	23.068877	325.151604
41	284.248620	75.139873	410.695061	0.024929	0.109614	324.701568
42	275.569436	83.793692	402.022556	8.734222	8.725149	316.021571
43	282.983971	76.698771	409.465165	8.617537	8.497647	323.413408
44	218.252436	144.695754	344.380485	72.690790	72.647011	258.421113
45	284.265031	75.106254	410.716027	0.556429	0.434763	324.717432
46	284.257994	75.130274	410.704489	0.023281	0.102126	324.710938
47	284.259673	75.108170	410.711729	0.688339	0.566689	324.711922

48	126.554583	263.808086	242.834190	193.301490	193.257341	161.471369
49	2.408813	361.737666	124.099493	286.660463	286.661098	38.061710
50	284.258199	75.112576	410.709347	0.575220	0.453589	324.710579
51	283.255515	78.624785	409.661941	19.793550	19.672385	323.605070
52	284.604015	75.808671	411.069663	13.430810	13.309128	325.005641
53	164.766964	524.059560	39.017098	449.006507	449.006189	124.320597
54	0.000000	359.348538	126.481338	284.269111	284.269864	40.453855
55	359.348538	0.000000	485.809914	75.119911	75.114835	399.798421
56	126.481338	485.809914	0.000000	410.715428	410.717234	86.064718
57	284.269111	75.119911	410.715428	0.000000	0.121688	324.722072
58	284.269864	75.114835	410.717234	0.121688	0.000000	324.722715
59	40.453855	399.798421	86.064718	324.722072	324.722715	0.000000
60	280.872681	78.499104	407.323252	3.431210	3.416880	321.325158
61	276.781934	82.571353	403.239741	7.617595	7.597138	317.233203
62	277.097411	82.277761	403.546639	7.178262	7.174884	317.550080
63	280.402720	78.983555	406.849666	3.982293	3.981899	320.855387
64	284.042022	75.318913	410.496473	1.019887	0.901906	324.493887
65	284.131703	75.243594	410.581530	0.435170	0.322363	324.584262
66	283.337899	76.277591	409.819207	7.886506	7.766000	323.770447
67	278.340086	89.350618	404.398607	36.162991	36.044630	318.477110
68	284.091873	75.261279	410.550008	1.505545	1.384920	324.543021
69	284.051708	122.531130	407.034946	88.121919	88.001873	322.720041
70	244.208905	126.214373	369.701510	62.511216	62.425570	284.040906
71	282.558368	82.258958	408.813647	28.444063	28.323204	322.808548
72	285.203222	123.450411	408.036906	89.942730	89.822495	323.805131
73	282.498359	104.740875	407.178513	65.471726	65.351387	321.948398
74	56.805848	414.385146	73.849018	339.461980	339.457465	20.378257
75	304.748162	188.404730	418.729853	163.827369	163.707346	339.575003
76	284.268322	75.122684	410.714171	0.053654	0.175321	324.721330
77	128.752653	230.641852	255.233968	155.615529	155.613383	169.186425
78	119.860417	477.893313	19.666765	402.782735	402.789921	80.452128
79	283.871071	75.635150	410.351127	6.513756	6.392456	324.309004
80	279.858309	82.981976	406.210395	23.749160	23.630811	320.169525
81	271.170383	93.012476	397.414332	31.312163	31.204749	311.413017
82	278.605569	81.102477	405.086383	10.572812	10.471720	319.032799
83	284.268321	75.122685	410.714170	0.053651	0.175317	324.721329
84	284.270389	75.121200	410.716102	0.069128	0.190786	324.723411
85	257.380750	230.783149	364.846407	188.015496	187.908244	289.278135
86	204.457016	160.713474	330.198274	89.257030	89.211733	244.405962
87	155.166260	204.267665	281.646937	129.284662	129.280681	195.594781
88	284.235163	75.128648	410.688566	0.859946	0.738419	324.687203
89	284.274458	75.105676	410.722992	0.258692	0.137039	324.727176
90	220.961484	138.451923	347.441536	63.561466	63.552730	261.400213
91	284.262965	75.119798	410.710820	0.178573	0.057204	324.715761
92	284.294320	75.078287	410.744929	0.509587	0.388048	324.746774
93	284.207750	75.148162	410.664375	1.287556	1.166083	324.659211
94	284.311624	75.042642	410.778859	2.939539	2.817857	324.760093

95	396.747241	197.165883	509.443359	203.589374	203.705091	432.616972
96	284.151709	75.217195	410.603422	0.655414	0.536335	324.604009
97	215.438353	143.947954	341.916572	68.998790	68.992236	255.880205
98	284.263714	75.097385	410.718113	0.988828	0.867157	324.715586
99	284.498971	75.002108	410.924952	2.081248	2.202197	324.952824
100	283.793342	75.697189	410.273006	6.298945	6.177794	324.232087
101	284.262292	75.127148	410.708509	0.013453	0.133423	324.715263
102	282.276968	80.183857	408.654194	21.928033	21.807471	322.605415
103	266.486629	113.824587	391.381026	63.188344	63.076277	306.031373
104	255.403909	135.354018	378.886998	84.245362	84.138546	294.274109
105	310.861601	280.317592	407.000029	249.052565	248.937785	338.467910
106	250.407021	363.437388	317.741880	311.889619	311.797705	266.052492
107	291.240067	630.618370	192.076415	558.186841	558.157569	256.144281
108	265.919188	107.772871	391.393267	53.140940	53.031284	305.748840
109	260.459808	124.490579	384.747384	73.298003	73.189083	299.711212
110	344.234541	471.807682	380.906623	425.437651	425.340065	350.060709
111	280.477983	79.870578	406.943525	13.886751	13.770772	320.879499

	60	61	62	63	64	65	\
0	4.283028	7.657059	7.677977	4.982875	2.156533	2.730975	
1	53.245207	51.474048	52.595763	53.512074	53.648976	54.229742	
2	4.341062	7.403116	7.519010	5.035108	2.686993	3.273880	
3	8.447154	11.200749	11.477361	9.101669	6.211978	6.707224	
4	2.590419	6.628740	6.346481	3.282837	0.644310	0.974271	
5	315.582685	311.392270	311.913667	315.196208	318.596313	318.795638	
6	451.303268	448.779708	449.896431	451.458503	452.181643	452.746190	
7	3.438405	7.626744	7.179932	3.983186	1.072047	0.486114	
8	27.267770	26.794014	27.805389	27.687464	26.860561	27.447553	
9	7.763579	10.948037	9.970383	7.721639	7.390544	6.805192	
10	3.424350	7.607031	7.178739	3.984424	0.944368	0.362846	
11	34.053894	33.165242	34.226360	34.430001	33.878844	34.467021	
12	9.522371	12.468142	11.439972	9.424138	9.243776	8.657686	
13	10.735103	6.835442	6.958651	10.289976	13.935798	13.982250	
14	4.702561	7.673864	7.824662	5.388957	3.009991	3.593398	
15	3.127019	7.310042	6.856559	3.612148	1.099066	0.580545	
16	3.478274	7.664638	7.225066	4.028137	1.038017	0.458410	
17	3.151640	7.210302	6.918500	3.811858	0.064224	0.619767	
18	3.437437	7.625514	7.179815	3.983162	1.064307	0.478539	
19	18.333170	18.205176	19.153822	18.782085	17.874687	18.462125	
20	3.571385	7.759970	7.256372	4.063169	1.497054	0.909216	
21	3.451187	7.632862	7.206236	4.001289	0.945219	0.370466	
22	36.739934	35.846839	36.909916	37.116493	36.542940	37.131066	
23	7.805775	9.522734	10.048337	8.404934	6.669555	7.252423	
24	3.401171	7.576589	7.164744	3.974658	0.827850	0.252639	
25	69.494440	65.315395	65.942804	69.162822	72.395915	72.641859	
26	3.375836	7.513369	7.154710	3.987483	0.474814	0.192359	
27	4.356382	7.594898	7.659931	5.054385	2.419689	3.000285	

28	85.079884	80.906745	81.359478	84.667111	88.164340	88.323184
29	118.370745	114.309145	114.592089	117.892968	121.552857	121.626578
30	0.299736	4.472147	4.077465	1.289631	2.909004	2.965442
31	3.431720	7.619060	7.176305	3.980020	1.042819	0.457283
32	6.948479	9.044007	9.468079	7.575377	5.610698	6.190484
33	321.693289	318.752736	319.839697	321.769811	322.974838	323.512147
34	16.664305	16.924882	17.809230	17.149975	15.971577	16.555910
35	14.741513	17.167229	16.068025	14.545740	14.676309	14.090348
36	43.043587	42.215642	43.275600	43.429528	42.749089	43.336524
37	79.130016	75.010849	75.364416	78.680677	82.280420	82.389662
38	107.359180	103.352810	104.170383	107.142294	109.895209	110.250525
39	12.417512	9.213274	10.314227	12.415418	14.499546	14.916291
40	22.902934	22.933789	23.871726	23.371884	22.194068	22.775913
41	3.408945	7.594881	7.157204	3.962072	1.001650	0.415540
42	5.311295	1.360083	1.596952	4.964413	8.475063	8.570246
43	8.258407	9.358564	10.018618	8.805951	7.599844	8.188024
44	69.356945	65.229451	65.947500	69.074978	72.118915	72.412293
45	3.392988	7.531752	7.171721	4.003096	0.491581	0.195792
46	3.417393	7.602994	7.166327	3.970841	0.997658	0.412446
47	3.392709	7.512774	7.171952	4.014938	0.375731	0.303508
48	189.967026	185.833870	186.538053	189.677288	192.724201	193.021584
49	283.263556	279.171878	279.488464	282.793817	286.432395	286.522652
50	3.386570	7.522890	7.165542	3.998670	0.471820	0.205604
51	19.310571	19.228144	20.173384	19.765263	18.784219	19.370705
52	13.389163	14.194682	14.967678	13.920535	12.439359	13.018922
53	445.605790	441.506027	441.832334	445.138828	448.770102	448.865388
54	280.872681	276.781934	277.097411	280.402720	284.042022	284.131703
55	78.499104	82.571353	82.277761	78.983555	75.318913	75.243594
56	407.323252	403.239741	403.546639	406.849666	410.496473	410.581530
57	3.431210	7.617595	7.178262	3.982293	1.019887	0.435170
58	3.416880	7.597138	7.174884	3.981899	0.901906	0.322363
59	321.325158	317.233203	317.550080	320.855387	324.493887	324.584262
60	0.000000	4.191725	3.779375	1.123530	3.208730	3.259926
61	4.191725	0.000000	1.128015	3.951383	7.272382	7.416937
62	3.779375	1.128015	0.000000	3.441571	6.977330	7.035015
63	1.123530	3.951383	3.441571	0.000000	3.864718	3.860410
64	3.208730	7.272382	6.977330	3.864718	0.000000	0.588180
65	3.259926	7.416937	7.035015	3.860410	0.588180	0.000000
66	7.703079	9.110932	9.699637	8.276639	6.871806	7.459608
67	35.070218	33.850802	34.939829	35.406398	35.143106	35.729774
68	3.370629	7.310364	7.091531	4.053907	0.502982	1.082671
69	87.170366	85.875716	86.978365	87.505019	87.104429	87.692609
70	59.806700	56.410895	57.442398	59.780332	61.647870	62.121846
71	27.788388	27.238433	28.259240	28.200056	27.431294	28.018765
72	89.022364	87.762401	88.863069	89.361535	88.925976	89.514137
73	64.593525	63.448510	64.539437	64.945122	64.455466	65.043587
74	336.047528	331.920148	332.283722	335.594730	339.191799	339.306788

75	162.843194	161.431513	162.542651	163.165171	162.809784	163.397961
76	3.438406	7.626746	7.179933	3.983187	1.072051	0.486118
77	152.208564	148.098705	148.438515	151.749248	155.366048	155.468490
78	399.416841	395.379890	395.637550	398.926514	402.608092	402.667291
79	6.685754	8.682711	9.123819	7.305788	5.508108	6.092998
80	22.735682	21.853093	22.902524	23.105496	22.729276	23.315947
81	29.439698	27.278353	28.405590	29.641163	30.326600	30.882649
82	8.692947	7.641468	8.643466	9.001864	9.622970	10.152782
83	3.438405	7.626744	7.179932	3.983186	1.072047	0.486114
84	3.442899	7.631705	7.182779	3.985805	1.087608	0.501550
85	186.021754	183.390823	184.502915	186.156673	187.029952	187.586170
86	85.933533	81.814153	82.539626	85.656145	88.673066	88.973976
87	125.871941	121.750420	122.106435	125.419148	129.020841	129.131535
88	3.382436	7.473946	7.158265	4.019833	0.235812	0.458026
89	3.409559	7.580026	7.177232	3.989478	0.771603	0.210238
90	60.137418	55.990672	56.388615	59.705559	63.262600	63.392961
91	3.404419	7.581065	7.166745	3.975932	0.845270	0.268723
92	3.421690	7.566293	7.199567	4.026317	0.547204	0.188796
93	3.427621	7.427090	7.175246	4.095135	0.335234	0.876228
94	4.213324	7.677117	7.666751	4.913396	1.962317	2.531991
95	205.105711	207.292197	206.166251	204.891093	204.605829	204.024503
96	3.282631	7.409609	7.062005	3.905079	0.366330	0.232699
97	65.579386	61.444902	61.821904	65.138889	68.717003	68.837457
98	3.427057	7.494047	7.197499	4.073065	0.221770	0.590615
99	4.429441	8.451069	7.765438	4.723468	3.096268	2.508119
100	6.454998	8.494693	8.920879	7.078309	5.290890	5.876646
101	3.426108	7.612995	7.171945	3.975967	1.029632	0.444062
102	21.267682	20.886386	21.876571	21.692971	20.913157	21.501066
103	61.508303	59.379532	60.507140	61.723052	62.182976	62.754307
104	82.256990	79.701428	80.819375	82.402888	83.262014	83.816587
105	247.505170	245.389192	246.516611	247.727234	248.038435	248.617420
106	309.319813	306.001624	307.037794	309.313954	310.986381	311.486596
107	554.775521	550.586253	551.163517	554.415766	557.720851	557.951760
108	51.330417	49.076663	50.203805	51.523965	52.145118	52.708922
109	71.424309	69.029279	70.153301	71.597029	72.305224	72.866746
110	423.041956	419.916532	420.981586	423.079996	424.501612	425.023535
111	12.801366	12.354533	13.321007	13.205074	12.869860	13.451690

	66	67	68	69	70	71	\
0	4.781750	33.100454	1.653565	85.014394	60.297873	25.318853	
1	46.929629	18.891605	53.188111	35.153012	28.310523	27.416982	
2	4.187649	32.486859	2.193683	84.425231	59.635448	24.745130	
3	3.655617	30.506339	5.741053	82.040039	59.867095	22.353418	
4	6.764687	34.943866	0.817227	86.945648	61.149682	27.309841	
5	316.584110	306.048108	318.549283	300.390362	269.537251	311.721709	
6	445.668270	417.893162	451.749031	369.338949	394.884110	426.363478	
7	7.939567	36.215058	1.558704	88.174755	62.548667	28.497281	

8	19.992100	9.283562	26.366435	60.328503	44.616978	0.695476
9	14.256611	42.449173	7.887782	94.463657	67.332717	34.816074
10	7.809140	36.087280	1.428070	88.044924	62.457990	28.366407
11	27.012001	2.902511	33.391357	53.226336	39.970939	6.599638
12	16.111722	44.300261	9.739973	96.319157	68.877743	36.671534
13	15.410001	36.082237	14.040658	87.385682	53.804463	30.663629
14	3.889552	32.206504	2.510729	84.125433	59.536676	24.434899
15	7.922937	36.158243	1.592192	88.139203	62.328287	28.479610
16	7.899644	36.180287	1.518710	88.136109	62.548985	28.456113
17	6.845288	35.110153	0.493171	87.075417	61.590530	27.405309
18	7.931689	36.207343	1.550807	88.166915	62.543202	28.489376
19	11.003931	17.542799	17.381955	69.261138	49.161798	9.556660
20	8.366348	36.638658	1.985630	88.601031	62.880812	28.924227
21	7.805333	36.086022	1.424988	88.041638	62.472020	28.361803
22	29.673495	3.385813	36.054177	50.569068	39.367004	9.182242
23	0.725339	28.658306	6.169870	80.507615	57.083346	20.797899
24	7.691139	35.970234	1.310056	87.927068	62.366852	28.248332
25	70.069857	63.533908	72.308911	87.043648	35.162948	67.286725
26	7.322255	35.606336	0.941671	87.559066	62.095484	27.878629
27	4.489454	32.805060	1.918318	84.725367	60.015399	25.033831
28	86.836223	83.225642	88.155812	105.987946	54.889147	86.411713
29	121.156829	119.790652	121.617672	140.432227	90.845370	122.625328
30	7.572685	35.065458	3.074486	87.160063	59.974518	27.740361
31	7.910092	36.185878	1.529208	88.145335	62.526229	28.467778
32	1.532685	29.739361	5.109176	81.590065	57.940618	21.878331
33	316.821771	290.172811	322.580669	245.904271	263.111024	298.762491
34	9.137484	19.685057	15.473253	71.269425	51.173852	11.544965
35	21.542769	49.691163	15.172660	101.733299	73.309311	42.101573
36	35.878009	8.974858	42.256228	44.470664	39.414841	15.317836
37	81.564925	80.887994	82.315692	108.256203	56.163348	83.192206
38	106.113199	90.695791	109.702147	90.023822	53.711819	97.163525
39	11.122112	26.127605	14.255080	77.653059	47.393094	20.881830
40	15.383920	14.341136	21.693741	65.246652	48.559500	5.780543
41	7.869811	36.144592	1.489157	88.104731	62.486737	28.427761
42	10.414429	34.468996	8.550886	86.413941	56.113191	28.066409
43	0.778742	27.567976	7.113765	79.504589	55.715354	19.844860
44	69.206246	60.098714	71.987245	80.874883	29.437308	64.537699
45	7.334659	35.620119	0.954661	87.571762	62.114920	27.890578
46	7.864948	36.140731	1.484106	88.100147	62.489006	28.422691
47	7.203341	35.490491	0.824255	87.440682	62.018134	27.758925
48	189.578509	175.262920	192.586619	166.557219	138.231788	181.716140
49	285.720741	280.677479	286.481741	286.244501	246.511049	284.910234
50	7.315186	35.600350	0.935026	87.552217	62.096881	27.871234
51	11.920965	16.802461	18.288981	68.394631	49.014501	8.669519
52	5.711682	23.283961	11.937854	74.891845	53.849979	15.170563
53	447.967221	441.932191	448.814771	442.977711	406.886437	446.525073
54	283.337899	278.340086	284.091873	284.051708	244.208905	282.558368

55	76.277591	89.350618	75.261279	122.531130	126.214373	82.258958
56	409.819207	404.398607	410.550008	407.034946	369.701510	408.813647
57	7.886506	36.162991	1.505545	88.121919	62.511216	28.444063
58	7.766000	36.044630	1.384920	88.001873	62.425570	28.323204
59	323.770447	318.477110	324.543021	322.720041	284.040906	322.808548
60	7.703079	35.070218	3.370629	87.170366	59.806700	27.788388
61	9.110932	33.850802	7.310364	85.875716	56.410895	27.238433
62	9.699637	34.939829	7.091531	86.978365	57.442398	28.259240
63	8.276639	35.406398	4.053907	87.505019	59.780332	28.200056
64	6.871806	35.143106	0.502982	87.104429	61.647870	27.431294
65	7.459608	35.729774	1.082671	87.692609	62.121846	28.018765
66	0.000000	28.322577	6.381087	80.238337	56.441388	20.560179
67	28.322577	0.000000	34.666463	52.107607	37.068667	8.590161
68	6.381087	34.666463	0.000000	86.617453	61.331345	26.938607
69	80.238337	52.107607	86.617453	0.000000	52.344248	59.726022
70	56.441388	37.068667	61.331345	52.344248	0.000000	44.002556
71	20.560179	8.590161	26.938607	59.726022	44.002556	0.000000
72	82.057358	53.970304	88.437775	2.018311	54.262013	61.528888
73	57.585711	29.600399	63.966556	22.680844	40.401241	37.054028
74	338.174865	331.613826	339.219580	333.215062	296.515632	336.290176
75	155.943925	127.773145	162.322964	75.705588	118.848514	135.424792
76	7.939571	36.215062	1.558708	88.174759	62.548670	28.497285
77	154.585486	150.729900	155.405670	164.359454	118.609582	154.403871
78	402.235763	398.087576	402.683735	403.172168	364.068814	402.158822
79	1.437561	29.744610	5.010472	81.633874	57.731216	21.936287
80	15.916804	12.413838	22.252878	64.452117	44.143467	5.604212
81	24.056629	9.820079	29.908731	59.284810	33.904159	11.405128
82	4.872553	26.496778	9.248301	78.600713	52.197125	19.617248
83	7.939567	36.215058	1.558704	88.174755	62.548667	28.497281
84	7.955179	36.230600	1.574315	88.190362	62.561096	28.512889
85	180.637831	153.327529	186.610020	108.361606	129.552552	161.891171
86	85.611065	74.467597	88.533567	86.956040	39.921250	79.682284
87	128.176004	124.721027	129.053659	141.469588	93.684285	128.175482
88	7.030565	35.318369	0.651922	87.267923	61.880258	27.586241
89	7.630912	35.912272	1.249943	87.867342	62.331921	28.187589
90	62.388718	62.930806	63.280428	95.793092	43.754338	64.573641
91	7.708805	35.987759	1.327723	87.944712	62.380508	28.266008
92	7.385788	35.673020	1.006901	87.623245	62.169175	27.941007
93	6.604144	34.896495	0.239171	86.842002	61.560716	27.158957
94	4.993540	33.312854	1.459777	85.224886	60.483966	25.527898
95	211.358004	239.652305	205.068602	291.015871	260.757128	231.543636
96	7.231954	35.508302	0.852259	87.466682	61.972170	27.790341
97	67.929385	68.179353	68.743161	99.427648	47.132105	70.014794
98	6.906486	35.198796	0.534913	87.144459	61.809443	27.460667
99	9.967234	38.229898	3.586710	90.200513	64.147597	30.525301
100	1.619599	29.939818	4.794544	81.840289	57.821494	22.147364
101	7.897040	36.172683	1.516189	88.132230	62.514574	28.454773

102	14.041572	14.501683	20.422554	66.205873	47.036871	6.533732
103	55.607868	28.164339	61.739990	30.491122	24.332559	36.753299
104	76.917723	50.251046	82.844902	28.993411	30.210503	58.829620
105	241.328732	213.120496	247.580851	162.982797	194.706019	221.396264
106	305.307366	280.323587	310.637935	241.224006	249.597174	288.830611
107	555.301251	542.540867	557.644658	529.510106	505.537417	548.833080
108	45.692985	19.389899	51.714601	39.977260	21.711108	27.833056
109	65.868659	38.937710	71.877927	28.067122	24.568604	47.522130
110	418.541373	392.479391	424.126932	349.453514	363.739534	401.061511
111	6.251799	22.335020	12.408299	74.400832	50.627443	15.037064
	72	73	74	75	76	77 \
0	86.830701	62.357592	339.302569	160.719827	3.195812	155.533770
1	37.130300	14.876293	324.428630	110.133805	54.715669	146.858574
2	86.244857	61.773345	338.873452	160.130799	3.752369	155.120924
3	83.823676	59.359340	341.652849	157.715435	7.093053	158.010257
4	88.773328	64.307525	338.548549	162.648974	1.409018	154.723774
5	301.144409	303.852380	53.076758	304.321319	319.018927	167.628334
6	367.934028	391.044545	421.571100	299.201519	453.226540	408.049665
7	89.995653	65.524699	339.463510	163.880194	0.000018	155.616031
8	62.126098	37.652437	336.720552	136.022746	27.924813	154.766906
9	96.291278	71.824871	340.022239	170.166754	6.333112	156.123684
10	89.865585	65.394498	339.461954	163.750393	0.132204	155.617027
11	55.047730	30.580820	334.368118	128.931924	34.948884	153.322255
12	98.147130	73.680910	340.369985	172.021996	8.183652	156.482381
13	89.321395	65.346028	325.394056	162.550951	14.101024	141.531780
14	85.942780	61.470142	339.034962	159.830967	4.066543	155.293353
15	89.963288	65.494593	339.135059	163.843774	0.420113	155.287194
16	89.956480	65.485222	339.508788	163.841608	0.066552	155.662233
17	88.897531	64.427384	339.129926	162.780673	1.105695	155.304583
18	89.987799	65.516836	339.463439	163.872356	0.008017	155.616113
19	71.071942	46.597529	337.076176	144.964831	18.940639	154.212517
20	90.422145	65.951300	339.525282	164.306438	0.426959	155.670047
21	89.862020	65.390777	339.489200	163.747132	0.150790	155.644446
22	52.384023	27.912537	334.507362	126.273730	37.612252	153.853886
23	82.319312	57.844886	338.886461	156.211847	7.723339	155.289805
24	89.747662	65.276541	339.445644	163.632545	0.249788	155.603028
25	88.900474	75.140637	269.246216	147.980204	72.903308	87.228116
26	89.379239	64.907895	339.415957	163.264586	0.620477	155.580954
27	86.542590	62.069876	339.159915	160.430894	3.470740	155.399352
28	107.782959	95.130548	251.356165	162.858829	88.516576	68.154109
29	142.121778	131.243849	218.138066	190.482591	121.751533	34.502127
30	89.009323	64.574745	336.341353	162.838252	3.154665	152.503567
31	89.966211	65.495245	339.460009	163.850777	0.029525	155.613091
32	83.401214	58.926663	339.136308	157.294103	6.657636	155.492894
33	244.840028	265.866779	304.806764	186.067554	323.978186	269.082033
34	73.068643	48.594695	338.299461	146.965253	17.028222	155.281823

35	103.564899	79.101747	341.126112	177.433386	13.616214	157.337225
36	46.251444	21.790356	335.680408	120.145274	43.814878	156.021416
37	110.123016	95.604075	256.920103	168.241014	82.544001	73.094690
38	91.310677	88.654880	244.984793	130.123304	110.593190	76.299151
39	79.573663	55.484064	327.137757	152.998026	15.309126	143.632740
40	67.023686	42.566324	338.873171	140.912432	23.244144	156.407148
41	89.925718	65.454820	339.440897	163.810159	0.070578	155.594705
42	88.310697	64.046253	330.736579	161.914588	8.738284	146.900015
43	81.326468	56.856611	337.787976	155.209964	8.670320	154.231442
44	82.710092	69.732138	271.761073	141.415929	72.709702	90.852410
45	89.391781	64.920350	339.433746	163.277294	0.610057	155.598542
46	89.921035	65.450079	339.449997	163.805588	0.074669	155.603930
47	89.260556	64.789051	339.422643	163.146225	0.741956	155.590258
48	167.330570	170.503388	169.198447	178.354893	193.320532	71.703862
49	287.390208	284.763198	54.425216	306.630870	286.659726	131.135268
50	89.372275	64.900866	339.426106	163.257747	0.628829	155.591293
51	70.198403	45.723530	337.480915	144.094237	19.846917	154.697787
52	76.688220	52.215339	339.164369	150.584825	13.484444	155.890242
53	443.916163	443.879955	110.371036	451.484053	449.006185	293.418758
54	285.203222	282.498359	56.805848	304.748162	284.268322	128.752653
55	123.450411	104.740875	414.385146	188.404730	75.122684	230.641852
56	408.036906	407.178513	73.849018	418.729853	410.714171	255.233968
57	89.942730	65.471726	339.461980	163.827369	0.053654	155.615529
58	89.822495	65.351387	339.457465	163.707346	0.175321	155.613383
59	323.805131	321.948398	20.378257	339.575003	324.721330	169.186425
60	89.022364	64.593525	336.047528	162.843194	3.438406	152.208564
61	87.762401	63.448510	331.920148	161.431513	7.626746	148.098705
62	88.863069	64.539437	332.283722	162.542651	7.179933	148.438515
63	89.361535	64.945122	335.594730	163.165171	3.983187	151.749248
64	88.925976	64.455466	339.191799	162.809784	1.072051	155.366048
65	89.514137	65.043587	339.306788	163.397961	0.486118	155.468490
66	82.057358	57.585711	338.174865	155.943925	7.939571	154.585486
67	53.970304	29.600399	331.613826	127.773145	36.215062	150.729900
68	88.437775	63.966556	339.219580	162.322964	1.558708	155.405670
69	2.018311	22.680844	333.215062	75.705588	88.174759	164.359454
70	54.262013	40.401241	296.515632	118.848514	62.548670	118.609582
71	61.528888	37.054028	336.290176	135.424792	28.497285	154.403871
72	0.000000	24.474965	334.207994	73.896664	89.995657	165.846655
73	24.474965	0.000000	333.626054	98.370884	65.524703	158.503551
74	334.207994	333.626054	0.000000	345.968240	339.463511	183.899736
75	73.896664	98.370884	345.968240	0.000000	163.880198	204.352840
76	89.995657	65.524703	339.463511	163.880198	0.000000	155.616032
77	165.846655	158.503551	183.899736	204.352840	155.616032	0.000000
78	404.256300	402.242195	72.626765	418.404729	402.779107	247.916851
79	83.449112	58.975691	338.770799	157.339112	6.567193	155.122851
80	66.295894	41.858242	333.882544	140.143725	23.801230	151.449486
81	61.225983	37.431160	324.885266	134.501147	31.359323	143.077368

82	80.466783	56.079074	333.391763	154.241803	10.617250	149.853792
83	89.995653	65.524699	339.463510	163.880194	0.000018	155.616031
84	90.011264	65.540311	339.466246	163.895801	0.015608	155.618473
85	107.360256	128.269202	293.517034	61.966478	188.062554	176.089619
86	88.607763	79.613695	257.232711	139.948753	89.276603	78.891771
87	143.069388	133.943003	210.179078	187.618442	129.285980	26.418563
88	89.087781	64.616274	339.390681	162.973468	0.913507	155.562032
89	89.687715	65.216469	339.456115	163.572842	0.312334	155.614763
90	97.749923	80.616191	275.949841	161.143398	63.564919	92.215106
91	89.765316	65.294200	339.448111	163.650188	0.232157	155.605147
92	89.443050	64.971499	339.465076	163.328793	0.563197	155.628889
93	88.661493	64.189805	339.344565	162.547570	1.341087	155.525704
94	87.040860	62.567615	339.374838	160.930275	2.993178	155.600032
95	292.732074	268.379621	452.013368	366.406377	203.538515	293.855497
96	89.287674	64.816807	339.316673	163.172114	0.708102	155.483277
97	101.361484	84.986532	270.476424	163.293895	69.001275	86.700366
98	88.963844	64.492088	339.413534	162.850031	1.042455	155.587814
99	92.022242	67.551698	339.779851	165.905808	2.028016	155.901136
100	83.656666	59.183685	338.703474	157.545712	6.352311	155.046312
101	89.953124	65.482169	339.455666	163.837670	0.042534	155.608989
102	68.019864	43.546540	336.387427	141.910622	21.981117	153.797728
103	32.506646	16.279596	317.908213	103.416985	63.237570	142.225335
104	30.406085	31.990294	305.123191	88.641260	84.292233	135.461139
105	161.469728	185.168564	339.452269	92.098788	249.103005	243.310430
106	240.487950	259.013752	260.577915	192.220466	311.929831	237.861271
107	529.909352	536.619294	236.293535	515.543743	558.199293	407.974770
108	41.990907	21.478685	318.172459	113.762479	53.189088	140.037904
109	29.920249	22.979389	311.112747	96.141164	73.345816	138.054136
110	348.441089	369.013346	339.401594	289.586819	425.480388	352.455104
111	76.244473	51.802642	335.042197	150.090630	13.937763	151.765154

	78	79	80	81	82	83	\
0	402.923295	3.382646	20.690887	28.546385	8.104454	3.195808	
1	392.262415	48.364581	31.069372	24.369171	44.555443	54.715665	
2	402.544878	2.824917	20.074583	27.881062	7.439723	3.752365	
3	405.594640	2.888192	18.259741	27.075207	8.512080	7.093050	
4	401.971186	5.455946	22.532825	29.975103	9.214374	1.409015	
5	121.262807	317.366794	310.078650	300.452201	311.715965	319.018925	
6	479.497113	447.104694	429.988112	421.896633	442.713562	453.226536	
7	402.779107	6.567189	23.801226	31.359319	10.617246	0.000000	
8	402.542249	21.360116	5.336769	11.844467	19.161997	27.924809	
9	402.719945	12.898186	30.042415	37.173901	16.370622	6.333116	
10	402.790257	6.435708	23.673457	31.244196	10.509139	0.132200	
11	400.759321	28.408955	11.347097	11.371582	25.647802	34.948880	
12	402.884888	14.750362	31.895010	38.959083	18.173450	8.183656	
13	388.685217	15.255177	25.066489	28.107342	12.387434	14.101023	
14	402.737479	2.500726	19.796746	27.683427	7.342088	4.066539	

15	402.449298	6.572405	23.745604	31.222992	10.457229	0.420110
16	402.828854	6.524211	23.766479	31.339919	10.604221	0.066549
17	402.548149	5.486058	22.696333	30.280452	9.571579	1.105691
18	402.779803	6.559246	23.793511	31.352371	10.610713	0.008012
19	402.128755	12.381012	5.456116	15.327576	10.604152	18.940634
20	402.799951	6.993980	24.224845	31.756174	10.998275	0.426963
21	402.818235	6.430246	23.672227	31.250213	10.518070	0.150785
22	401.112063	31.065666	14.035650	13.123295	28.335516	37.612248
23	402.931283	1.174659	16.271361	24.587266	5.597885	7.723335
24	402.785252	6.317648	23.556421	31.134909	10.405081	0.249784
25	334.874194	70.875652	64.646772	55.915142	65.199580	72.903307
26	402.791141	5.947202	23.192614	30.801038	10.091469	0.620473
27	402.806468	3.098337	20.394759	28.245126	7.819616	3.470735
28	316.069729	87.461860	83.321185	75.161383	82.040879	88.516575
29	281.101996	121.611782	119.233154	111.498101	116.510279	121.751532
30	399.715012	6.518850	22.716756	29.509733	8.735065	3.154663
31	402.778438	6.537668	23.772046	31.332199	10.591388	0.029520
32	403.082221	0.383295	17.349199	25.586627	6.121811	6.657632
33	370.560706	318.236405	301.697441	292.766571	313.361050	323.978183
34	403.186417	10.463619	7.655411	17.413434	9.507009	17.028218
35	403.094562	20.183046	37.294742	44.133504	23.434268	13.616219
36	402.766030	37.252599	20.384583	18.573716	34.688100	43.814874
37	320.685372	82.068317	79.624612	72.225387	76.875135	82.544000
38	313.950824	107.190828	96.452286	86.340349	101.371554	110.593188
39	391.375598	11.933309	15.281121	18.516078	6.270151	15.309123
40	404.297642	16.691117	4.991166	14.858714	15.341548	23.244140
41	402.763021	6.498197	23.730760	31.290135	10.549749	0.070574
42	394.136526	10.028548	22.617449	27.598344	8.577767	8.738283
43	401.913090	2.214001	15.158719	23.281468	4.403766	8.670316
44	337.988928	70.119307	62.373262	53.135556	64.344477	72.709700
45	402.807954	5.958584	23.206425	30.818109	10.109687	0.610053
46	402.772707	6.492737	23.726898	31.289046	10.549763	0.074665
47	402.809498	5.826698	23.076853	30.699195	9.998698	0.741952
48	241.023365	190.557592	180.839416	170.802391	184.748418	193.320530
49	117.558905	286.255492	282.218757	273.521108	280.986987	286.659725
50	402.802111	5.939412	23.186651	30.798385	10.090437	0.628825
51	402.614393	13.280672	5.010827	15.122911	11.630562	19.846913
52	403.734265	6.951500	11.098371	20.400504	7.415469	13.484440
53	53.148635	448.524368	444.036534	435.120324	443.212882	449.006185
54	119.860417	283.871071	279.858309	271.170383	278.605569	284.268321
55	477.893313	75.635150	82.981976	93.012476	81.102477	75.122685
56	19.666765	410.351127	406.210395	397.414332	405.086383	410.714170
57	402.782735	6.513756	23.749160	31.312163	10.572812	0.053651
58	402.789921	6.392456	23.630811	31.204749	10.471720	0.175317
59	80.452128	324.309004	320.169525	311.413017	319.032799	324.721329
60	399.416841	6.685754	22.735682	29.439698	8.692947	3.438405
61	395.379890	8.682711	21.853093	27.278353	7.641468	7.626744

62	395.637550	9.123819	22.902524	28.405590	8.643466	7.179932
63	398.926514	7.305788	23.105496	29.641163	9.001864	3.983186
64	402.608092	5.508108	22.729276	30.326600	9.622970	1.072047
65	402.667291	6.092998	23.315947	30.882649	10.152782	0.486114
66	402.235763	1.437561	15.916804	24.056629	4.872553	7.939567
67	398.087576	29.744610	12.413838	9.820079	26.496778	36.215058
68	402.683735	5.010472	22.252878	29.908731	9.248301	1.558704
69	403.172168	81.633874	64.452117	59.284810	78.600713	88.174755
70	364.068814	57.731216	44.143467	33.904159	52.197125	62.548667
71	402.158822	21.936287	5.604212	11.405128	19.617248	28.497281
72	404.256300	83.449112	66.295894	61.225983	80.466783	89.995653
73	402.242195	58.975691	41.858242	37.431160	56.079074	65.524699
74	72.626765	338.770799	333.882544	324.885266	333.391763	339.463510
75	418.404729	157.339112	140.143725	134.501147	154.241803	163.880194
76	402.779107	6.567193	23.801230	31.359323	10.617250	0.000018
77	247.916851	155.122851	151.449486	143.077368	149.853792	155.616031
78	0.000000	402.707557	399.331569	390.788586	397.559828	402.779107
79	402.707557	0.000000	17.343282	25.469840	5.822627	6.567189
80	399.331569	17.343282	0.000000	10.246831	14.303543	23.801226
81	390.788586	25.469840	10.246831	0.000000	20.817123	31.359319
82	397.559828	5.822627	14.303543	20.817123	0.000000	10.617246
83	402.779107	6.567189	23.801226	31.359319	10.617246	0.000000
84	402.780352	6.582772	23.816768	31.373992	10.631336	0.015612
85	366.127094	182.068858	165.162258	156.703576	177.493455	188.062551
86	324.311160	86.558460	77.981256	68.365939	80.762890	89.276601
87	274.304364	128.721078	125.128670	116.885165	123.439462	129.285979
88	402.793938	5.654305	22.904769	30.536790	9.845203	0.913503
89	402.801731	6.256224	23.498485	31.085695	10.360528	0.312330
90	339.874703	62.909617	60.763838	53.876287	57.688114	63.564918
91	402.786028	6.335321	23.573944	31.151275	10.420652	0.232153
92	402.834715	6.008224	23.259364	30.873782	10.165387	0.563193
93	402.788682	5.226612	22.483126	30.147884	9.485095	1.341083
94	402.976288	3.592121	20.903440	28.754126	8.293877	2.993174
95	495.123092	209.928144	227.269599	234.492886	213.790922	203.538519
96	402.699418	5.862639	23.094485	30.686834	9.972364	0.708098
97	334.321229	68.438010	66.268612	59.233626	63.238809	69.001274
98	402.829180	5.527420	22.785375	30.436186	9.757177	1.042451
99	402.900581	8.594068	25.816414	33.257369	12.460824	2.028020
100	402.619734	0.232964	17.535532	25.614938	5.849563	6.352307
101	402.775316	6.524764	23.758851	31.319217	10.578712	0.042530
102	401.702248	15.429253	2.893425	13.138872	13.244993	21.981113
103	386.274408	57.044978	39.957812	32.117496	52.836946	63.237566
104	374.715995	78.344415	61.641041	52.936173	73.719233	84.292229
105	411.009477	242.763150	225.446157	218.141469	238.819250	249.103001
106	326.119358	306.673466	291.036353	281.463109	301.405491	311.929827
107	210.947870	556.162163	547.688463	537.781322	550.430235	558.199292
108	385.779278	47.124992	30.354077	21.890792	42.695631	53.189084

109	380.079245	67.300696	50.447822	42.004991	62.822006	73.345813
110	393.795538	419.938547	403.729190	394.514491	414.880095	425.480385
111	399.612583	7.682628	9.948829	17.833439	4.743279	13.937759
	84	85	86	87	88	89 \
0	3.211307	185.224892	88.080516	129.161732	2.282740	2.883647
1	54.731023	134.484852	68.231114	121.728904	53.837225	54.420558
2	3.767976	184.563279	87.510954	128.743238	2.842938	3.443334
3	7.106902	183.366422	89.265408	131.607981	6.255836	6.798119
4	1.422489	186.676313	88.054716	128.377931	0.857638	1.183577
5	319.023912	248.732419	232.108489	192.249739	318.811792	318.965274
6	453.241418	265.504791	392.127343	409.992386	452.385966	452.946546
7	0.015612	188.062551	89.276601	129.285979	0.913503	0.312330
8	27.940411	162.578164	80.170923	128.525340	27.012909	27.614579
9	6.317577	193.784559	92.064514	129.915416	7.246617	6.644994
10	0.147625	187.947650	89.230469	129.284972	0.781672	0.180150
11	34.964488	155.435531	77.261321	127.269490	34.041714	34.641274
12	8.168090	195.530631	93.087163	130.318612	9.097027	8.495140
13	14.102757	182.191901	76.554551	115.215078	14.116176	14.117342
14	4.082119	184.352829	87.559346	128.912287	3.153580	3.755504
15	0.421447	187.922842	88.977996	128.957524	1.008268	0.536457
16	0.076956	188.043369	89.302744	129.331449	0.870016	0.268788
17	1.121170	186.983933	88.608986	128.959123	0.297831	0.810601
18	0.023535	188.055620	89.273831	129.285939	0.905537	0.304344
19	18.956243	170.579435	81.913434	127.829779	18.029685	18.630986
20	0.411359	188.458397	89.478236	129.346555	1.339881	0.737984
21	0.164858	187.953698	89.253114	129.312253	0.777191	0.180414
22	37.627860	153.146274	77.301971	127.887905	36.704015	37.304104
23	7.738885	181.114990	86.333326	128.881184	6.809845	7.411634
24	0.265317	187.838450	89.175695	129.269218	0.663733	0.063967
25	72.909643	146.890479	18.375555	61.193108	72.618612	72.821864
26	0.636011	187.504449	89.023807	129.241720	0.293042	0.309047
27	3.486294	184.922988	87.861261	129.024378	2.557315	3.159215
28	88.520572	155.175067	23.275624	41.807502	88.372131	88.483804
29	121.753232	172.555689	53.625026	10.937387	121.742073	121.765328
30	3.159596	186.114633	86.188512	126.166116	3.083050	3.117948
31	0.045116	188.035479	89.263390	129.282592	0.884004	0.282956
32	6.673138	182.152284	86.874555	129.090455	5.744390	6.345504
33	323.992301	137.639719	255.866082	271.036167	323.193122	323.719227
34	17.043777	172.774529	83.480428	128.882747	16.114791	16.716653
35	13.600648	200.537614	95.959268	131.328413	14.529526	13.927608
36	43.830482	148.228721	78.522946	130.283364	42.903644	43.505074
37	82.546689	163.068416	30.496067	46.742287	82.477765	82.538008
38	110.602399	113.838098	23.940700	57.498282	110.129417	110.449574
39	15.320299	174.197642	74.664730	117.216106	14.735346	15.123275
40	23.259646	167.663469	82.921472	130.076602	22.330857	22.932012
41	0.086042	187.993424	89.232712	129.263633	0.845212	0.245853

42	8.741800	183.424146	80.955496	120.561428	8.666045	8.720635
43	8.685921	179.859095	85.049464	127.818871	7.764887	8.363391
44	72.717297	141.094975	16.600625	65.203674	72.347727	72.601380
45	0.625544	187.521486	89.043694	129.259446	0.304359	0.297935
46	0.090270	187.992377	89.239069	129.272760	0.839300	0.238943
47	0.757455	187.402341	88.989351	129.249273	0.172778	0.429903
48	193.328158	132.168526	104.053560	83.263079	192.953563	193.211153
49	286.661808	259.032483	206.770543	157.547533	286.625671	286.665558
50	0.644336	187.501753	89.030349	129.251931	0.285116	0.316913
51	19.862508	169.957583	82.131047	128.324415	18.934515	19.536336
52	13.499913	176.259334	85.105515	129.473985	12.571687	13.172165
53	449.008387	395.999616	367.582632	319.805929	448.964578	449.009552
54	284.270389	257.380750	204.457016	155.166260	284.235163	284.274458
55	75.121200	230.783149	160.713474	204.267665	75.128648	75.105676
56	410.716102	364.846407	330.198274	281.646937	410.688566	410.722992
57	0.069128	188.015496	89.257030	129.284662	0.859946	0.258692
58	0.190786	187.908244	89.211733	129.280681	0.738419	0.137039
59	324.723411	289.278135	244.405962	195.594781	324.687203	324.727176
60	3.442899	186.021754	85.933533	125.871941	3.382436	3.409559
61	7.631705	183.390823	81.814153	121.750420	7.473946	7.580026
62	7.182779	184.502915	82.539626	122.106435	7.158265	7.177232
63	3.985805	186.156673	85.656145	125.419148	4.019833	3.989478
64	1.087608	187.029952	88.673066	129.020841	0.235812	0.771603
65	0.501550	187.586170	88.973976	129.131535	0.458026	0.210238
66	7.955179	180.637831	85.611065	128.176004	7.030565	7.630912
67	36.230600	153.327529	74.467597	124.721027	35.318369	35.912272
68	1.574315	186.610020	88.533567	129.053659	0.651922	1.249943
69	88.190362	108.361606	86.956040	141.469588	87.267923	87.867342
70	62.561096	129.552552	39.921250	93.684285	61.880258	62.331921
71	28.512889	161.891171	79.682284	128.175482	27.586241	28.187589
72	90.011264	107.360256	88.607763	143.069388	89.087781	89.687715
73	65.540311	128.269202	79.613695	133.943003	64.616274	65.216469
74	339.466246	293.517034	257.232711	210.179078	339.390681	339.456115
75	163.895801	61.966478	139.948753	187.618442	162.973468	163.572842
76	0.015608	188.062554	89.276603	129.285980	0.913507	0.312334
77	155.618473	176.089619	78.891771	26.418563	155.562032	155.614763
78	402.780352	366.127094	324.311160	274.304364	402.793938	402.801731
79	6.582772	182.068858	86.558460	128.721078	5.654305	6.256224
80	23.816768	165.162258	77.981256	125.128670	22.904769	23.498485
81	31.373992	156.703576	68.365939	116.885165	30.536790	31.085695
82	10.631336	177.493455	80.762890	123.439462	9.845203	10.360528
83	0.015612	188.062551	89.276601	129.285979	0.913503	0.312330
84	0.000000	188.077200	89.284376	129.288656	0.929046	0.327771
85	188.077200	0.000000	132.587093	166.425733	187.239605	187.789269
86	89.284376	132.587093	0.000000	54.704107	88.902730	89.164333
87	129.288656	166.425733	54.704107	0.000000	129.218637	129.280017
88	0.929046	187.239605	88.902730	129.218637	0.000000	0.601948

89	0.327771	187.789269	89.164333	129.280017	0.601948	0.000000
90	63.568209	163.096277	34.619907	65.821242	63.464443	63.546847
91	0.247678	187.854807	89.183912	129.271599	0.681383	0.081005
92	0.578566	187.577147	89.088649	129.290468	0.355342	0.251109
93	1.356640	186.849129	88.718622	129.176446	0.427713	1.029661
94	3.008630	185.434235	88.212392	129.230252	2.081129	2.680864
95	203.523148	390.069885	269.692471	275.865141	204.418849	203.834227
96	0.723702	187.390357	88.905460	129.142956	0.229999	0.405274
97	69.004288	163.170805	32.622764	60.320319	68.916751	68.988791
98	1.057940	187.138344	88.880984	129.242601	0.132598	0.730268
99	2.012412	189.950758	90.264410	129.604222	2.939867	2.338079
100	6.367902	182.228220	86.559447	128.646038	5.440037	6.041792
101	0.058142	188.022507	89.255081	129.278300	0.871216	0.270440
102	21.996725	167.639899	80.691456	127.450972	21.071587	21.672268
103	63.252650	125.228753	63.334667	117.690921	62.382091	62.951601
104	84.306840	103.774234	58.833489	112.941366	83.472684	84.020114
105	249.118303	69.470280	201.653394	235.290823	248.228990	248.809804
106	311.942923	135.054856	236.030354	243.222324	311.214691	311.696672
107	558.205108	454.081037	469.953633	432.577955	557.941521	558.128221
108	53.203959	134.946121	61.571054	114.807004	52.350246	52.909505
109	73.360619	114.771792	59.688801	114.390040	72.511800	73.068162
110	425.494075	241.091950	352.367123	359.325644	424.724866	425.232424
111	13.953156	174.386468	81.149606	125.349148	13.057367	13.641460
	90	91	92	93	94	95 \
0	63.353569	2.963673	2.633726	1.856196	0.212841	206.596541
1	66.108406	54.493253	54.188690	53.422923	51.885751	258.253699
2	62.928588	3.521368	3.198193	2.416771	0.874055	207.225469
3	65.797381	6.877171	6.557468	5.877708	4.382926	209.204357
4	62.618708	1.230908	1.048456	0.838314	2.087065	204.859601
5	255.957772	318.969318	318.936904	318.703125	318.487780	453.410545
6	425.278747	453.014225	452.728372	451.987613	450.531946	655.560609
7	63.564918	0.232153	0.563193	1.341083	2.993174	203.538519
8	64.807728	27.693275	27.367349	26.585391	24.950225	230.909512
9	64.600284	6.565250	6.894613	7.674123	9.324230	197.447358
10	63.558689	0.100412	0.431010	1.209338	2.861007	203.663152
11	65.062795	34.718722	34.397028	33.615724	31.999292	238.131344
12	65.174619	8.415690	8.744165	9.524700	11.172202	195.626206
13	49.557384	14.102617	14.150062	14.130675	14.506594	207.966544
14	63.094636	3.834634	3.507549	2.725887	1.106885	207.490252
15	63.238195	0.483853	0.726602	1.405232	3.040896	203.624265
16	63.608419	0.192776	0.516385	1.297629	2.946411	203.568634
17	63.200348	0.882012	0.594693	0.353722	1.951791	204.643144
18	63.564558	0.224181	0.555207	1.333123	2.985189	203.546041
19	62.799302	18.709379	18.384494	17.602444	15.973036	222.140470
20	63.643066	0.658660	0.987551	1.767578	3.417856	203.120734
21	63.585622	0.109799	0.425318	1.204364	2.853540	203.662166

22	66.297322	37.381792	37.059262	36.277637	34.657173	240.720431
23	63.089841	7.491228	7.162497	6.382269	4.736788	211.000122
24	63.538439	0.017687	0.314632	1.091353	2.743585	203.778580
25	16.801205	72.833163	72.771606	72.476633	72.145798	251.689985
26	63.497433	0.388343	0.074112	0.720711	2.373444	204.135841
27	63.212613	3.238668	2.910548	2.129656	0.513605	206.895062
28	25.194525	88.482306	88.472909	88.294929	88.217960	253.852996
29	58.890677	121.751829	121.791655	121.727091	121.887032	264.928812
30	60.429167	3.114617	3.125620	3.128930	3.947770	205.056097
31	63.560363	0.202678	0.533900	1.311575	2.963761	203.567241
32	63.280293	6.425487	6.095579	5.317398	3.666148	209.921026
33	289.770445	323.780341	323.519679	322.819329	321.483830	523.132606
34	63.643914	16.796151	16.467675	15.687145	14.041461	220.043540
35	66.822751	13.848224	14.176463	14.957218	16.603638	190.373751
36	70.169239	43.583550	43.258338	42.476296	40.843634	246.625761
37	19.191217	82.529556	82.548743	82.437341	82.505561	244.401433
38	58.533440	110.477692	110.347882	109.903141	109.219289	293.550794
39	51.502257	15.162746	14.989153	14.468395	13.691945	216.368167
40	65.558962	23.011994	22.682041	21.903746	20.252093	225.895316
41	63.539927	0.164940	0.496908	1.272564	2.925663	203.609070
42	54.827667	8.714241	8.729237	8.652267	8.995161	207.116130
43	62.050094	8.440507	8.120215	7.339931	5.744961	212.121488
44	22.027347	72.619874	72.529105	72.169762	71.692750	255.774412
45	63.515480	0.377957	0.055797	0.731976	2.383216	204.120977
46	63.548791	0.158287	0.490031	1.266794	2.919392	203.612067
47	63.500753	0.509819	0.182670	0.600124	2.251464	204.248347
48	133.869869	193.230003	193.137459	192.771226	192.262793	358.718962
49	223.346041	286.654143	286.685174	286.597830	286.699999	398.970189
50	63.507322	0.396684	0.075415	0.712806	2.364629	204.140872
51	63.395379	19.615219	19.288697	18.506891	16.869679	222.937708
52	63.939961	13.252360	12.921816	12.145125	10.491391	216.419224
53	385.626615	448.998782	449.027102	448.932845	449.017767	547.810457
54	220.961484	284.262965	284.294320	284.207750	284.311624	396.747241
55	138.451923	75.119798	75.078287	75.148162	75.042642	197.165883
56	347.441536	410.710820	410.744929	410.664375	410.778859	509.443359
57	63.561466	0.178573	0.509587	1.287556	2.939539	203.589374
58	63.552730	0.057204	0.388048	1.166083	2.817857	203.705091
59	261.400213	324.715761	324.746774	324.659211	324.760093	432.616972
60	60.137418	3.404419	3.421690	3.427621	4.213324	205.105711
61	55.990672	7.581065	7.566293	7.427090	7.677117	207.292197
62	56.388615	7.166745	7.199567	7.175246	7.666751	206.166251
63	59.705559	3.975932	4.026317	4.095135	4.913396	204.891093
64	63.262600	0.845270	0.547204	0.335234	1.962317	204.605829
65	63.392961	0.268723	0.188796	0.876228	2.531991	204.024503
66	62.388718	7.708805	7.385788	6.604144	4.993540	211.358004
67	62.930806	35.987759	35.673020	34.896495	33.312854	239.652305
68	63.280428	1.327723	1.006901	0.239171	1.459777	205.068602

69	95.793092	87.944712	87.623245	86.842002	85.224886	291.015871
70	43.754338	62.380508	62.169175	61.560716	60.483966	260.757128
71	64.573641	28.266008	27.941007	27.158957	25.527898	231.543636
72	97.749923	89.765316	89.443050	88.661493	87.040860	292.732074
73	80.616191	65.294200	64.971499	64.189805	62.567615	268.379621
74	275.949841	339.448111	339.465076	339.344565	339.374838	452.013368
75	161.143398	163.650188	163.328793	162.547570	160.930275	366.406377
76	63.564919	0.232157	0.563197	1.341087	2.993178	203.538515
77	92.215106	155.605147	155.628889	155.525704	155.600032	293.855497
78	339.874703	402.786028	402.834715	402.788682	402.976288	495.123092
79	62.909617	6.335321	6.008224	5.226612	3.592121	209.928144
80	60.763838	23.573944	23.259364	22.483126	20.903440	227.269599
81	53.876287	31.151275	30.873782	30.147884	28.754126	234.492886
82	57.688114	10.420652	10.165387	9.485095	8.293877	213.790922
83	63.564918	0.232153	0.563193	1.341083	2.993174	203.538519
84	63.568209	0.247678	0.578566	1.356640	3.008630	203.523148
85	163.096277	187.854807	187.577147	186.849129	185.434235	390.069885
86	34.619907	89.183912	89.088649	88.718622	88.212392	269.692471
87	65.821242	129.271599	129.290468	129.176446	129.230252	275.865141
88	63.464443	0.681383	0.355342	0.427713	2.081129	204.418849
89	63.546847	0.081005	0.251109	1.029661	2.680864	203.834227
90	0.000000	63.541485	63.548122	63.409036	63.425166	235.084600
91	63.541485	0.000000	0.331972	1.109013	2.761156	203.761294
92	63.548122	0.331972	0.000000	0.782050	2.430430	204.066881
93	63.409036	1.109013	0.782050	0.000000	1.655996	204.834376
94	63.425166	2.761156	2.430430	1.655996	0.000000	206.383715
95	235.084600	203.761294	204.066881	204.834376	206.383715	0.000000
96	63.396121	0.479468	0.197052	0.643530	2.299338	204.239499
97	5.566999	68.981993	68.994476	68.868451	68.910149	237.383427
98	63.484188	0.810343	0.480876	0.302596	1.950914	204.533850
99	63.978692	2.259385	2.585881	3.367507	5.012545	201.550676
100	62.831998	6.120625	5.794420	5.012480	3.384663	209.738457
101	63.555577	0.189990	0.521469	1.298750	2.951138	203.580461
102	62.805810	21.750273	21.426694	20.644800	19.021092	225.200557
103	66.150775	63.021200	62.728210	61.977711	60.495472	266.602298
104	73.078853	84.085269	83.809160	83.084055	81.681414	286.820442
105	231.113168	248.881855	248.579587	247.816283	246.284910	452.610163
106	270.604737	311.750091	311.519427	310.872315	309.681396	505.665044
107	495.661217	558.136873	558.085607	557.808967	557.496163	687.957440
108	59.190368	52.977017	52.691975	51.953345	50.511795	256.356112
109	68.305120	73.135067	72.852285	72.116819	70.682952	276.303857
110	386.864516	425.290225	425.042411	424.364228	423.089576	621.750974
111	59.832582	13.714514	13.408961	12.643290	11.122847	217.475659
	96	97	98	99	100	101 \
0	2.498566	68.841422	2.153381	5.217799	3.174120	3.153644
1	54.015294	70.639280	53.722981	56.703462	48.548315	54.673758

2	3.045212	68.423688	2.719247	5.780323	2.605277	3.709846
3	6.485711	71.326121	6.125636	8.957385	2.978042	7.055541
4	0.856810	68.073553	0.865629	3.310020	5.230242	1.372331
5	318.770909	250.769513	318.815021	319.629249	317.333158	319.004964
6	452.544731	424.411843	452.280752	455.146005	447.273157	453.185874
7	0.708098	69.001274	1.042451	2.028020	6.352307	0.042530
8	27.218515	70.260033	26.886733	29.952637	21.572929	27.882324
9	7.035767	69.900352	7.375175	4.313391	12.681430	6.375406
10	0.579063	68.997426	0.910357	2.158976	6.221033	0.090608
11	34.240837	70.363212	33.918168	36.975063	28.614631	34.906353
12	8.887751	70.428124	9.224973	6.159660	14.534331	8.226028
13	14.016550	54.962102	14.155984	14.422082	15.091579	14.095986
14	3.362583	68.594194	3.026785	6.093358	2.287536	4.024127
15	0.788816	68.673790	1.136426	2.091401	6.353421	0.419093
16	0.672107	69.045677	0.997187	2.069882	6.310049	0.053631
17	0.406955	68.655027	0.283923	3.125192	5.267914	1.063492
18	0.700273	69.001058	1.034470	2.035925	6.344377	0.034701
19	18.233681	68.352166	17.904214	20.968654	12.591285	18.898126
20	1.134493	69.071705	1.468045	1.601079	6.779223	0.469461
21	0.579853	69.024528	0.904552	2.164572	6.215987	0.114670
22	36.904334	71.534503	36.579961	39.639180	31.272823	37.569718
23	7.021198	68.628925	6.681693	9.747692	1.403860	7.681016
24	0.461965	68.979258	0.792750	2.277062	6.102949	0.207584
25	72.597056	16.302435	72.610852	73.708243	70.848269	72.885692
26	0.123914	68.944734	0.422585	2.647119	5.732749	0.578208
27	2.768736	68.704223	2.429674	5.496374	2.886678	3.428391
28	88.314906	20.158190	88.385177	89.013400	87.401088	88.505310
29	121.652736	53.324092	121.774289	121.943738	121.522271	121.746511
30	2.984816	65.872362	3.127342	4.219663	6.287041	3.141197
31	0.678705	68.997247	1.013004	2.057523	6.322788	0.013222
32	5.958536	68.809631	5.615237	8.678682	0.549493	6.615444
33	323.328114	288.432987	323.099706	325.793528	318.381020	323.939553
34	16.325125	69.206349	15.986843	19.052948	10.682424	16.985869
35	14.320439	71.921467	14.657308	11.591314	19.966981	13.658602
36	43.108026	75.256123	42.777917	45.842887	37.464323	43.772370
37	82.401490	13.636936	82.502186	82.872553	81.987215	82.536292
38	110.157764	56.239483	110.093173	111.765000	107.221055	110.567778
39	14.793668	57.059793	14.683761	16.790896	11.918656	15.278437
40	22.544269	71.079677	22.201745	25.263919	16.912972	23.201947
41	0.638054	68.977479	0.974754	2.097580	6.283114	0.029083
42	8.583459	60.268192	8.696560	9.362055	9.843334	8.728445
43	7.962221	67.596288	7.642522	10.695998	2.388783	8.627796
44	72.346998	22.454525	72.328011	73.678311	70.113461	72.688665
45	0.143793	68.962626	0.432401	2.635538	5.744388	0.567944
46	0.633514	68.986465	0.968540	2.102614	6.277792	0.032194
47	0.116339	68.950167	0.300557	2.767392	5.612594	0.699799
48	192.954810	129.532751	192.932517	194.279780	190.564511	193.299402

49	286.542430	217.823955	286.654092	286.892265	286.178018	286.653655
50	0.127337	68.954784	0.413728	2.654758	5.725134	0.586652
51	19.141205	68.942743	18.807955	21.874382	13.494607	19.804451
52	12.786842	69.506422	12.442021	15.501485	7.177601	13.442349
53	448.883208	380.117972	448.991841	449.251668	448.450386	448.999789
54	284.151709	215.438353	284.263714	284.498971	283.793342	284.262292
55	75.217195	143.947954	75.097385	75.002108	75.697189	75.127148
56	410.603422	341.916572	410.718113	410.924952	410.273006	410.708509
57	0.655414	68.998790	0.988828	2.081248	6.298945	0.013453
58	0.536335	68.992236	0.867157	2.202197	6.177794	0.133423
59	324.604009	255.880205	324.715586	324.952824	324.232087	324.715263
60	3.282631	65.579386	3.427057	4.429441	6.454998	3.426108
61	7.409609	61.444902	7.494047	8.451069	8.494693	7.612995
62	7.062005	61.821904	7.197499	7.765438	8.920879	7.171945
63	3.905079	65.138889	4.073065	4.723468	7.078309	3.975967
64	0.366330	68.717003	0.221770	3.096268	5.290890	1.029632
65	0.232699	68.837457	0.590615	2.508119	5.876646	0.444062
66	7.231954	67.929385	6.906486	9.967234	1.619599	7.897040
67	35.508302	68.179353	35.198796	38.229898	29.939818	36.172683
68	0.852259	68.743161	0.534913	3.586710	4.794544	1.516189
69	87.466682	99.427648	87.144459	90.200513	81.840289	88.132230
70	61.972170	47.132105	61.809443	64.147597	57.821494	62.514574
71	27.790341	70.014794	27.460667	30.525301	22.147364	28.454773
72	89.287674	101.361484	88.963844	92.022242	83.656666	89.953124
73	64.816807	84.986532	64.492088	67.551698	59.183685	65.482169
74	339.316673	270.476424	339.413534	339.779851	338.703474	339.455666
75	163.172114	163.293895	162.850031	165.905808	157.545712	163.837670
76	0.708102	69.001275	1.042455	2.028016	6.352311	0.042534
77	155.483277	86.700366	155.587814	155.901136	155.046312	155.608989
78	402.699418	334.321229	402.829180	402.900581	402.619734	402.775316
79	5.862639	68.438010	5.527420	8.594068	0.232964	6.524764
80	23.094485	66.268612	22.785375	25.816414	17.535532	23.758851
81	30.686834	59.233626	30.436186	33.257369	25.614938	31.319217
82	9.972364	63.238809	9.757177	12.460824	5.849563	10.578712
83	0.708098	69.001274	1.042451	2.028020	6.352307	0.042530
84	0.723702	69.004288	1.057940	2.012412	6.367902	0.058142
85	187.390357	163.170805	187.138344	189.950758	182.228220	188.022507
86	88.905460	32.622764	88.880984	90.264410	86.559447	89.255081
87	129.142956	60.320319	129.242601	129.604222	128.646038	129.278300
88	0.229999	68.916751	0.132598	2.939867	5.440037	0.871216
89	0.405274	68.988791	0.730268	2.338079	6.041792	0.270440
90	63.396121	5.566999	63.484188	63.978692	62.831998	63.555577
91	0.479468	68.981993	0.810343	2.259385	6.120625	0.189990
92	0.197052	68.994476	0.480876	2.585881	5.794420	0.521469
93	0.643530	68.868451	0.302596	3.367507	5.012480	1.298750
94	2.299338	68.910149	1.950914	5.012545	3.384663	2.951138
95	204.239499	237.383427	204.533850	201.550676	209.738457	203.580461

96	0.000000	68.844674	0.361588	2.735289	5.646800	0.665582
97	68.844674	0.000000	68.938710	69.376709	68.358172	68.992684
98	0.361588	68.938710	0.000000	3.066735	5.313817	1.000331
99	2.735289	69.376709	3.066735	0.000000	8.379867	2.070529
100	5.646800	68.358172	5.313817	8.379867	0.000000	6.309845
101	0.665582	68.992684	1.000331	2.070529	6.309845	0.000000
102	21.273525	68.334068	20.946934	24.008802	15.637182	21.938586
103	62.547845	70.175174	62.273637	65.187221	57.216023	63.196374
104	83.621820	75.780945	83.372297	86.176937	78.499259	84.252289
105	248.404644	231.564423	248.115759	251.081624	242.947656	249.061238
106	311.323391	268.510292	311.134799	313.607845	306.791699	311.893936
107	557.913779	490.577435	557.937057	558.915743	556.143649	558.183074
108	52.507935	63.656411	52.245726	55.110846	47.286002	53.148447
109	72.667351	71.680613	72.408271	75.257333	67.461586	73.305354
110	424.848415	384.923698	424.637270	427.237684	420.072175	425.442898
111	13.236190	65.399411	12.943184	15.934336	7.845029	13.895752

	102	103	104	105	106	107	\
0	18.811053	60.283723	81.472766	246.072140	309.485592	557.383854	
1	33.350789	9.738361	31.983308	194.399884	262.273728	531.039801	
2	18.228938	59.633382	80.809336	245.436206	308.815598	556.856654	
3	16.011745	58.200690	79.733831	243.626609	308.497196	558.939036	
4	20.782054	61.881317	82.904413	247.771679	310.522188	557.084075	
5	312.768771	288.895277	273.571028	290.179121	207.548848	240.374608	
6	432.348853	390.067056	369.080911	207.281795	173.533507	442.051828	
7	21.981113	63.237566	84.292229	249.103001	311.929827	558.199292	
8	6.000092	37.445700	59.524726	222.050591	289.524939	549.381186	
9	28.292750	69.204938	90.018218	255.166154	316.907591	560.011345	
10	21.850623	63.117149	84.177813	248.979456	311.832199	558.170757	
11	12.986147	30.437037	52.628333	214.797428	282.813645	545.436192	
12	30.148656	71.010220	91.771378	256.985075	318.469704	560.708948	
13	24.813134	59.584056	78.901561	245.164349	303.189061	544.626342	
14	17.923852	59.398680	80.604449	245.179855	308.678275	556.944171	
15	21.958061	63.126843	84.150917	249.010494	311.727405	557.883824	
16	21.940967	63.212625	84.273517	249.074313	311.925177	558.233665	
17	20.886089	62.141215	83.215593	247.999854	310.931600	557.656761	
18	21.973232	63.230299	84.285327	249.095545	311.923944	558.197590	
19	3.063651	45.358640	67.090959	230.663196	296.464505	551.815300	
20	22.407912	63.646526	84.687008	249.518626	312.280556	558.345945	
21	21.846586	63.120626	84.184088	248.981145	311.844280	558.195602	
22	15.636897	28.357295	50.608705	212.273459	280.874652	544.904179	
23	14.302129	56.047541	77.411250	241.711334	305.892583	556.026439	
24	21.732605	63.004299	84.068965	248.864664	311.735617	558.130877	
25	67.141346	59.375821	61.593914	215.263535	253.975060	485.350438	
26	21.363514	62.657101	83.736334	248.509961	311.445341	558.026157	
27	18.523509	59.981935	81.171095	245.772286	309.193416	557.188881	
28	85.648952	79.212022	79.257792	224.433357	253.410337	470.476352	

29	121.420745	115.131879	112.458302	241.759482	253.145612	442.166190
30	21.215120	61.565397	82.346912	247.554115	309.475191	555.050860
31	21.951635	63.209526	84.265243	249.074449	311.906024	558.189876
32	15.384888	57.102799	78.438378	242.785460	306.836674	556.494875
33	304.280904	262.009564	240.057886	101.423513	44.441402	389.104745
34	5.183939	47.551241	69.291757	232.797044	298.642191	553.420100
35	35.576727	76.230543	96.816773	262.239953	322.880421	562.479673
36	21.844020	24.542099	46.690367	206.621062	276.898563	544.451468
37	81.759507	80.147016	82.735872	232.147581	262.792007	477.753847
38	99.295994	73.105033	61.129092	183.305317	212.271359	451.846582
39	15.413934	50.456309	70.539222	236.390625	296.933817	544.229215
40	2.846040	42.500138	64.526151	227.125326	294.408771	552.559169
41	21.911374	63.167424	84.223207	249.032513	311.865548	558.163497
42	21.786427	59.648574	79.788425	245.621174	305.709282	549.568069
43	13.319305	54.831068	76.139312	240.560193	304.547779	554.778492
44	64.996452	53.764464	55.101100	209.255229	249.997360	486.155575
45	21.375788	62.673112	83.753467	248.525162	311.464308	558.045483
46	21.906495	63.165356	84.222241	249.029773	311.866990	558.171070
47	21.244351	62.549357	83.634852	248.398714	311.360618	558.007650
48	183.656723	155.972243	139.833863	191.403226	167.194706	367.316688
49	284.640036	268.760117	257.612982	312.218967	250.931703	289.002489
50	21.356352	62.653217	83.733759	248.505251	311.445653	558.034235
51	2.318260	44.729075	66.532950	229.907213	296.033313	551.994610
52	8.788253	51.055248	72.703377	236.403583	301.829515	555.046618
53	446.514270	428.213273	415.099739	434.527930	338.801083	162.242888
54	282.276968	266.486629	255.403909	310.861601	250.407021	291.240067
55	80.183857	113.824587	135.354018	280.317592	363.437388	630.618370
56	408.654194	391.381026	378.886998	407.000029	317.741880	192.076415
57	21.928033	63.188344	84.245362	249.052565	311.889619	558.186841
58	21.807471	63.076277	84.138546	248.937785	311.797705	558.157569
59	322.605415	306.031373	294.274109	338.467910	266.052492	256.144281
60	21.267682	61.508303	82.256990	247.505170	309.319813	554.775521
61	20.886386	59.379532	79.701428	245.389192	306.001624	550.586253
62	21.876571	60.507140	80.819375	246.516611	307.037794	551.163517
63	21.692971	61.723052	82.402888	247.727234	309.313954	554.415766
64	20.913157	62.182976	83.262014	248.038435	310.986381	557.720851
65	21.501066	62.754307	83.816587	248.617420	311.486596	557.951760
66	14.041572	55.607868	76.917723	241.328732	305.307366	555.301251
67	14.501683	28.164339	50.251046	213.120496	280.323587	542.540867
68	20.422554	61.739990	82.844902	247.580851	310.637935	557.644658
69	66.205873	30.491122	28.993411	162.982797	241.224006	529.510106
70	47.036871	24.332559	30.210503	194.706019	249.597174	505.537417
71	6.533732	36.753299	58.829620	221.396264	288.830611	548.833080
72	68.019864	32.506646	30.406085	161.469728	240.487950	529.909352
73	43.546540	16.279596	31.990294	185.168564	259.013752	536.619294
74	336.387427	317.908213	305.123191	339.452269	260.577915	236.293535
75	141.910622	103.416985	88.641260	92.098788	192.220466	515.543743

76	21.981117	63.237570	84.292233	249.103005	311.929831	558.199293
77	153.797728	142.225335	135.461139	243.310430	237.861271	407.974770
78	401.702248	386.274408	374.715995	411.009477	326.119358	210.947870
79	15.429253	57.044978	78.344415	242.763150	306.673466	556.162163
80	2.893425	39.957812	61.641041	225.446157	291.036353	547.688463
81	13.138872	32.117496	52.936173	218.141469	281.463109	537.781322
82	13.244993	52.836946	73.719233	238.819250	301.405491	550.430235
83	21.981113	63.237566	84.292229	249.103001	311.929827	558.199292
84	21.996725	63.252650	84.306840	249.118303	311.942923	558.205108
85	167.639899	125.228753	103.774234	69.470280	135.054856	454.081037
86	80.691456	63.334667	58.833489	201.653394	236.030354	469.953633
87	127.450972	117.690921	112.941366	235.290823	243.222324	432.577955
88	21.071587	62.382091	83.472684	248.228990	311.214691	557.941521
89	21.672268	62.951601	84.020114	248.809804	311.696672	558.128221
90	62.805810	66.150775	73.078853	231.113168	270.604737	495.661217
91	21.750273	63.021200	84.085269	248.881855	311.750091	558.136873
92	21.426694	62.728210	83.809160	248.579587	311.519427	558.085607
93	20.644800	61.977711	83.084055	247.816283	310.872315	557.808967
94	19.021092	60.495472	81.681414	246.284910	309.681396	557.496163
95	225.200557	266.602298	286.820442	452.610163	505.665044	687.957440
96	21.273525	62.547845	83.621820	248.404644	311.323391	557.913779
97	68.334068	70.175174	75.780945	231.564423	268.510292	490.577435
98	20.946934	62.273637	83.372297	248.115759	311.134799	557.937057
99	24.008802	65.187221	86.176937	251.081624	313.607845	558.915743
100	15.637182	57.216023	78.499259	242.947656	306.791699	556.143649
101	21.938586	63.196374	84.252289	249.061238	311.893936	558.183074
102	0.000000	42.411272	64.227199	227.617317	293.781094	550.461215
103	42.411272	0.000000	22.267588	186.024172	252.561104	522.756467
104	64.227199	22.267588	0.000000	166.441245	230.294232	505.075320
105	227.617317	186.024172	166.441245	0.000000	121.687268	470.002436
106	293.781094	252.561104	230.294232	121.687268	0.000000	352.297148
107	550.461215	522.756467	505.075320	470.002436	352.297148	0.000000
108	32.970503	10.425323	31.293153	196.315775	261.002067	525.920656
109	52.995230	10.951994	11.334941	176.542483	241.616018	513.741650
110	406.381723	364.374947	342.232822	201.710878	116.731641	354.332121
111	8.573592	49.379727	70.666888	235.173477	299.195756	551.066100

	108	109	110	111
0	50.301528	70.472924	422.887970	10.910523
1	7.069611	20.686358	373.951999	40.779868
2	49.643129	69.813585	422.217148	10.267074
3	48.452237	68.607860	421.578609	9.312046
4	51.816096	71.968240	424.072083	12.632190
5	290.694968	280.912819	288.316156	312.684959
6	400.037549	379.891649	89.649002	439.430919
7	53.189084	73.345813	425.480385	13.937759
8	28.526646	48.216834	401.756488	14.546770

9	59.060794	79.171088	430.727673	20.120267
10	53.071426	73.229001	425.376405	13.812773
11	22.027019	41.296878	394.811472	21.252588
12	60.849111	80.946680	432.355715	21.969023
13	49.162515	68.626312	417.537304	16.900208
14	49.424893	69.597460	422.053543	10.022302
15	53.063847	73.215899	425.297819	13.861660
16	53.167130	73.324730	425.470820	13.907202
17	52.100998	72.260499	424.449493	12.832774
18	53.181985	73.338765	425.474117	13.930211
19	35.807299	55.887487	409.184816	5.861202
20	53.591754	73.746406	425.848193	14.356644
21	53.076274	73.234229	425.386521	13.813691
22	20.456332	39.274893	392.696697	23.938578
23	46.169054	66.343374	419.090712	6.756178
24	52.960386	73.118519	425.275037	13.697211
25	54.698285	58.980674	370.162091	66.246093
26	52.619926	72.780021	424.968384	13.339884
27	49.999449	70.170873	422.590777	10.609331
28	74.847168	77.984486	370.086515	83.737246
29	111.342880	112.819657	369.413942	118.723081
30	51.399417	71.501785	423.178248	12.774550
31	53.161519	73.318398	425.455351	13.908973
32	47.206369	67.381693	420.073933	7.771832
33	271.344503	251.293883	103.945489	310.586440
34	38.007870	58.087422	411.381866	4.916935
35	66.017934	86.067195	436.970015	27.356181
36	18.581437	35.455774	388.224678	30.247907
37	74.657915	80.203903	379.452859	79.006475
38	74.571559	66.173153	328.715287	101.091875
39	40.093299	59.936176	410.754284	8.839076
40	33.419799	53.233526	406.756340	10.598348
41	53.119397	73.276288	425.414120	13.867194
42	49.309493	69.187733	419.718552	13.320311
43	44.914263	65.089941	417.770554	5.473127
44	49.768757	52.811395	365.977089	64.926037
45	52.636513	72.796752	424.986803	13.354799
46	53.117860	73.274905	425.414732	13.864097
47	52.515166	72.676069	424.877303	13.227630
48	158.670355	147.524487	280.945294	184.911604
49	268.221768	262.704618	344.189850	282.853643
50	52.616687	72.776951	424.967679	13.334901
51	35.267986	55.306445	408.673720	6.887416
52	41.410234	61.532176	414.705231	4.126143
53	428.541269	421.298525	391.875027	444.982440
54	265.919188	260.459808	344.234541	280.477983
55	107.772871	124.490579	471.807682	79.870578

56	391.393267	384.747384	380.906623	406.943525
57	53.140940	73.298003	425.437651	13.886751
58	53.031284	73.189083	425.340065	13.770772
59	305.748840	299.711212	350.060709	320.879499
60	51.330417	71.424309	423.041956	12.801366
61	49.076663	69.029279	419.916532	12.354533
62	50.203805	70.153301	420.981586	13.321007
63	51.523965	71.597029	423.079996	13.205074
64	52.145118	72.305224	424.501612	12.869860
65	52.708922	72.866746	425.023535	13.451690
66	45.692985	65.868659	418.541373	6.251799
67	19.389899	38.937710	392.479391	22.335020
68	51.714601	71.877927	424.126932	12.408299
69	39.977260	28.067122	349.453514	74.400832
70	21.711108	24.568604	363.739534	50.627443
71	27.833056	47.522130	401.061511	15.037064
72	41.990907	29.920249	348.441089	76.244473
73	21.478685	22.979389	369.013346	51.802642
74	318.172459	311.112747	339.401594	335.042197
75	113.762479	96.141164	289.586819	150.090630
76	53.189088	73.345816	425.480388	13.937763
77	140.037904	138.054136	352.455104	151.765154
78	385.779278	380.079245	393.795538	399.612583
79	47.124992	67.300696	419.938547	7.682628
80	30.354077	50.447822	403.729190	9.948829
81	21.890792	42.004991	394.514491	17.833439
82	42.695631	62.822006	414.880095	4.743279
83	53.189084	73.345813	425.480385	13.937759
84	53.203959	73.360619	425.494075	13.953156
85	134.946121	114.771792	241.091950	174.386468
86	61.571054	59.688801	352.367123	81.149606
87	114.807004	114.390040	359.325644	125.349148
88	52.350246	72.511800	424.724866	13.057367
89	52.909505	73.068162	425.232424	13.641460
90	59.190368	68.305120	386.864516	59.832582
91	52.977017	73.135067	425.290225	13.714514
92	52.691975	72.852285	425.042411	13.408961
93	51.953345	72.116819	424.364228	12.643290
94	50.511795	70.682952	423.089576	11.122847
95	256.356112	276.303857	621.750974	217.475659
96	52.507935	72.667351	424.848415	13.236190
97	63.656411	71.680613	384.923698	65.399411
98	52.245726	72.408271	424.637270	12.943184
99	55.110846	75.257333	427.237684	15.934336
100	47.286002	67.461586	420.072175	7.845029
101	53.148447	73.305354	425.442898	13.895752
102	32.970503	52.995230	406.381723	8.573592

103	10.425323	10.951994	364.374947	49.379727
104	31.293153	11.334941	342.232822	70.666888
105	196.315775	176.542483	201.710878	235.173477
106	261.002067	241.616018	116.731641	299.195756
107	525.920656	513.741650	354.332121	551.066100
108	0.000000	20.175707	373.414023	39.442367
109	20.175707	0.000000	353.541925	59.618070
110	373.414023	353.541925	0.000000	412.343655
111	39.442367	59.618070	412.343655	0.000000

## 1.2 Clustering Table

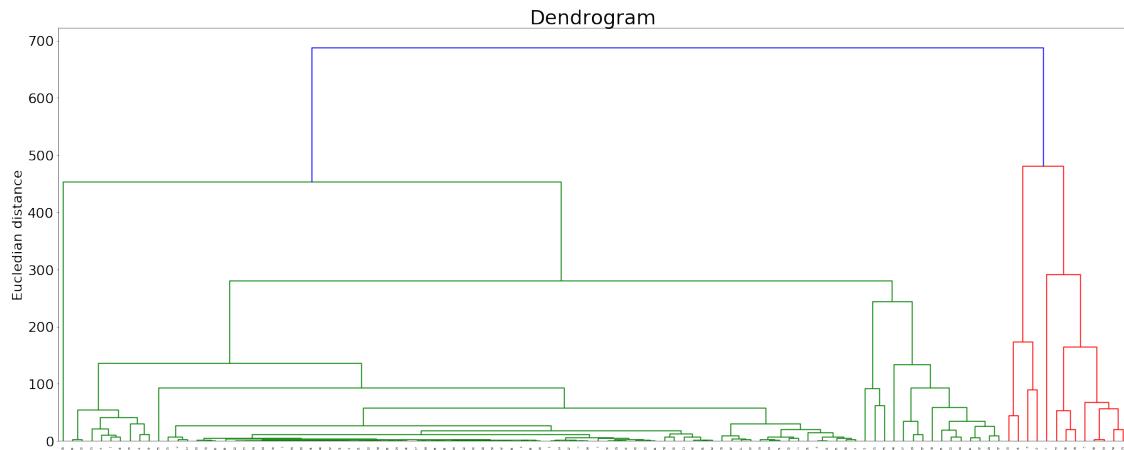
	row label 1	row label 2	distance	no. of items in cluster
cluster 1	7.0	83.0	0.000000	2.0
cluster 2	76.0	112.0	0.000018	3.0
cluster 3	18.0	113.0	0.008017	4.0
cluster 4	41.0	46.0	0.011490	2.0
cluster 5	31.0	101.0	0.013222	2.0
cluster 6	26.0	50.0	0.013675	2.0
cluster 7	24.0	91.0	0.017687	2.0
cluster 8	45.0	117.0	0.020110	3.0
cluster 9	84.0	114.0	0.023535	5.0
cluster 10	57.0	116.0	0.024414	3.0
cluster 11	10.0	58.0	0.043257	2.0
cluster 12	115.0	121.0	0.045271	5.0
cluster 13	17.0	64.0	0.064224	2.0
cluster 14	21.0	122.0	0.065774	3.0
cluster 15	16.0	123.0	0.070325	6.0
cluster 16	92.0	119.0	0.075415	4.0
cluster 17	89.0	118.0	0.081005	3.0
cluster 18	120.0	126.0	0.090270	11.0
cluster 19	47.0	96.0	0.116339	2.0
cluster 20	88.0	98.0	0.132598	2.0
cluster 21	125.0	128.0	0.180414	6.0
cluster 22	127.0	130.0	0.197052	6.0
cluster 23	0.0	94.0	0.212841	2.0
cluster 24	79.0	100.0	0.232964	2.0
cluster 25	68.0	93.0	0.239171	2.0
cluster 26	124.0	131.0	0.297831	4.0
cluster 27	30.0	60.0	0.299736	2.0
cluster 28	65.0	133.0	0.303508	7.0
cluster 29	129.0	132.0	0.327771	17.0
cluster 30	2.0	14.0	0.373743	2.0
cluster 31	27.0	134.0	0.513605	3.0
cluster 32	15.0	140.0	0.536457	18.0
cluster 33	32.0	135.0	0.549493	3.0
cluster 34	137.0	139.0	0.619767	11.0

cluster 35	8.0	71.0	0.695476	2.0
cluster 36	23.0	66.0	0.725339	2.0
cluster 37	20.0	143.0	0.737984	19.0
cluster 38	4.0	136.0	0.838314	3.0
cluster 39	19.0	51.0	1.026973	2.0
cluster 40	145.0	149.0	1.082671	14.0
cluster 41	141.0	142.0	1.106885	5.0
cluster 42	61.0	62.0	1.128015	2.0
cluster 43	63.0	138.0	1.289631	3.0
cluster 44	43.0	147.0	1.368993	3.0
cluster 45	42.0	153.0	1.596952	3.0
cluster 46	9.0	12.0	1.856119	2.0
cluster 47	148.0	151.0	1.985630	33.0
cluster 48	69.0	72.0	2.018311	2.0
cluster 49	144.0	155.0	2.388783	6.0
cluster 50	49.0	54.0	2.408813	2.0
cluster 51	11.0	22.0	2.688715	2.0
cluster 52	40.0	102.0	2.846040	2.0
cluster 53	34.0	150.0	2.894687	3.0
cluster 54	67.0	162.0	3.385813	3.0
cluster 55	99.0	158.0	3.586710	34.0
cluster 56	52.0	111.0	4.126143	2.0
cluster 57	3.0	160.0	4.265312	7.0
cluster 58	154.0	166.0	4.723468	37.0
cluster 59	80.0	163.0	4.991166	3.0
cluster 60	90.0	97.0	5.566999	2.0
cluster 61	152.0	168.0	5.744961	12.0
cluster 62	39.0	82.0	6.270151	2.0
cluster 63	146.0	170.0	6.533732	5.0
cluster 64	25.0	44.0	6.575871	2.0
cluster 65	164.0	167.0	6.887416	5.0
cluster 66	13.0	156.0	6.958651	4.0
cluster 67	1.0	108.0	7.069611	2.0
cluster 68	35.0	157.0	7.286365	3.0
cluster 69	36.0	165.0	9.050673	4.0
cluster 70	28.0	37.0	9.456733	2.0
cluster 71	103.0	178.0	10.425323	3.0
cluster 72	169.0	172.0	10.695998	49.0
cluster 73	29.0	87.0	10.937387	2.0
cluster 74	104.0	109.0	11.334941	2.0
cluster 75	173.0	177.0	12.387434	6.0
cluster 76	81.0	174.0	14.858714	6.0
cluster 77	183.0	186.0	17.925973	55.0
cluster 78	86.0	175.0	18.375555	3.0
cluster 79	56.0	78.0	19.666765	2.0
cluster 80	59.0	74.0	20.378257	2.0
cluster 81	176.0	187.0	20.400504	11.0
cluster 82	73.0	182.0	21.478685	4.0

cluster 83	171.0	181.0	25.194525	4.0
cluster 84	179.0	188.0	26.379956	58.0
cluster 85	70.0	185.0	30.210503	3.0
cluster 86	180.0	192.0	30.445652	15.0
cluster 87	77.0	184.0	34.502127	3.0
cluster 88	189.0	194.0	34.619907	7.0
cluster 89	193.0	196.0	40.401241	7.0
cluster 90	33.0	106.0	44.441402	2.0
cluster 91	53.0	190.0	53.148635	3.0
cluster 92	159.0	200.0	54.262013	9.0
cluster 93	161.0	191.0	56.805848	4.0
cluster 94	195.0	197.0	57.418905	73.0
cluster 95	38.0	199.0	58.533440	8.0
cluster 96	75.0	85.0	61.966478	2.0
cluster 97	5.0	204.0	67.439119	5.0
cluster 98	6.0	110.0	89.649002	2.0
cluster 99	105.0	207.0	92.098788	3.0
cluster 100	198.0	206.0	92.215106	11.0
cluster 101	55.0	205.0	93.012476	74.0
cluster 102	48.0	211.0	133.869869	12.0
cluster 103	203.0	212.0	135.354018	83.0
cluster 104	202.0	208.0	164.766964	8.0
cluster 105	201.0	209.0	173.533507	4.0
cluster 106	210.0	213.0	243.310430	15.0
cluster 107	214.0	217.0	280.317592	98.0
cluster 108	107.0	215.0	291.240067	9.0
cluster 109	95.0	218.0	452.610163	99.0
cluster 110	216.0	219.0	480.149040	13.0
cluster 111	220.0	221.0	687.957440	112.0

39.7629265940938

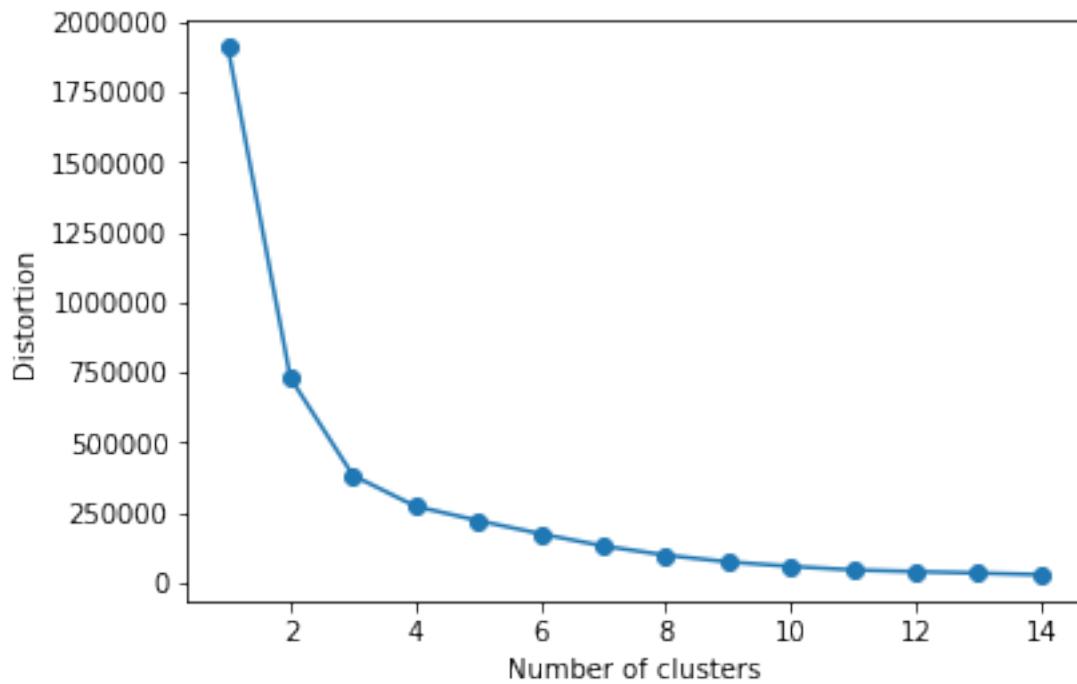
### 1.3 Dendrogram



## 2 K-means

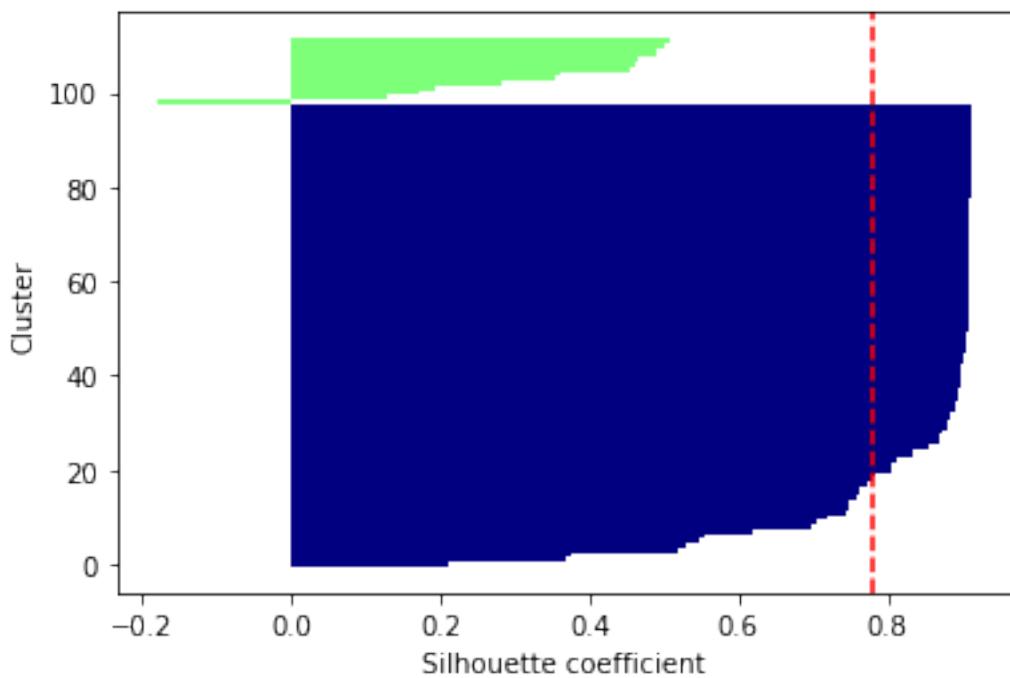
### 2.1 K-means using Polynomial Interpolation coef

### 2.2 Distortion graph for Polynomial Interpolation



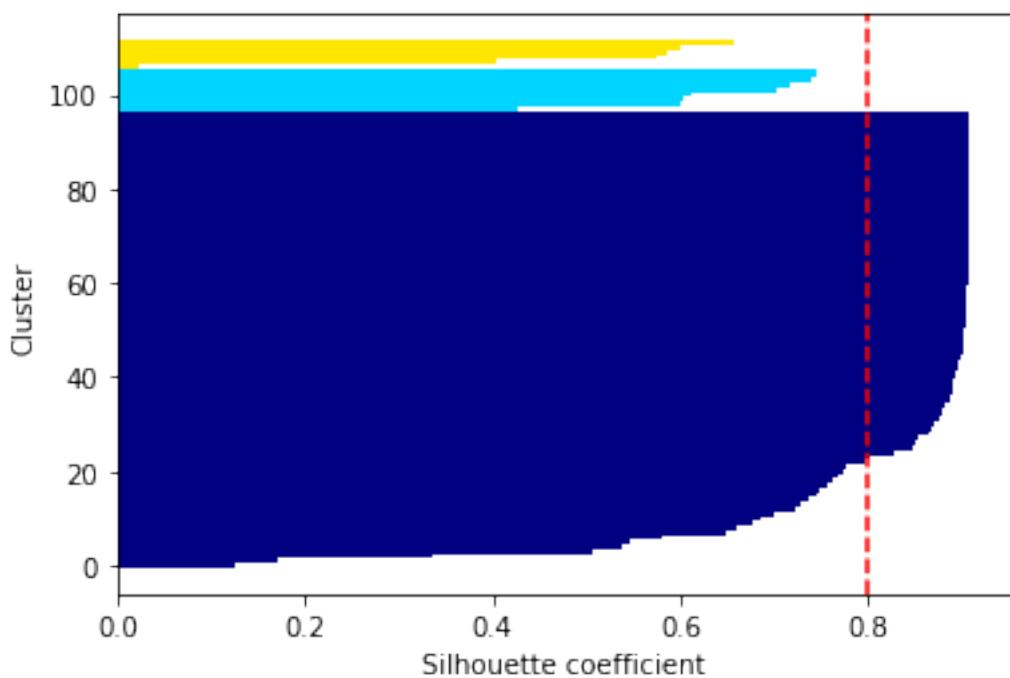
### 2.3 Silhouette for Polynomial Interpolation

2 Clusters



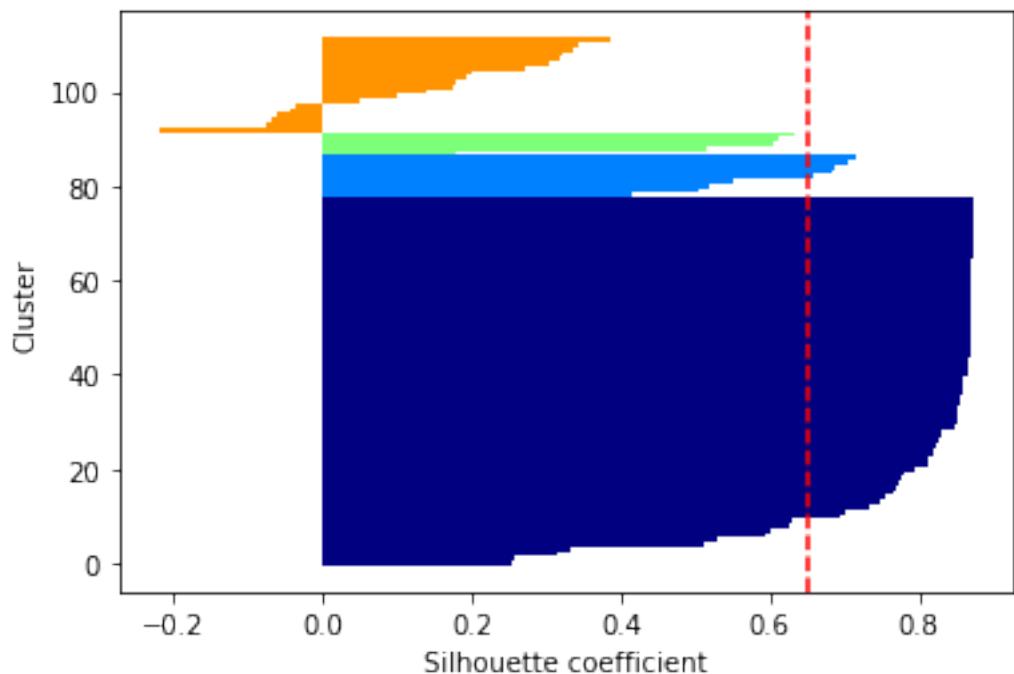
Silhouette Coefficient: 0.781  
Calinski-Harabasz Score: 178.283  
Davies Bouldin Score: 0.642

3 Clusters



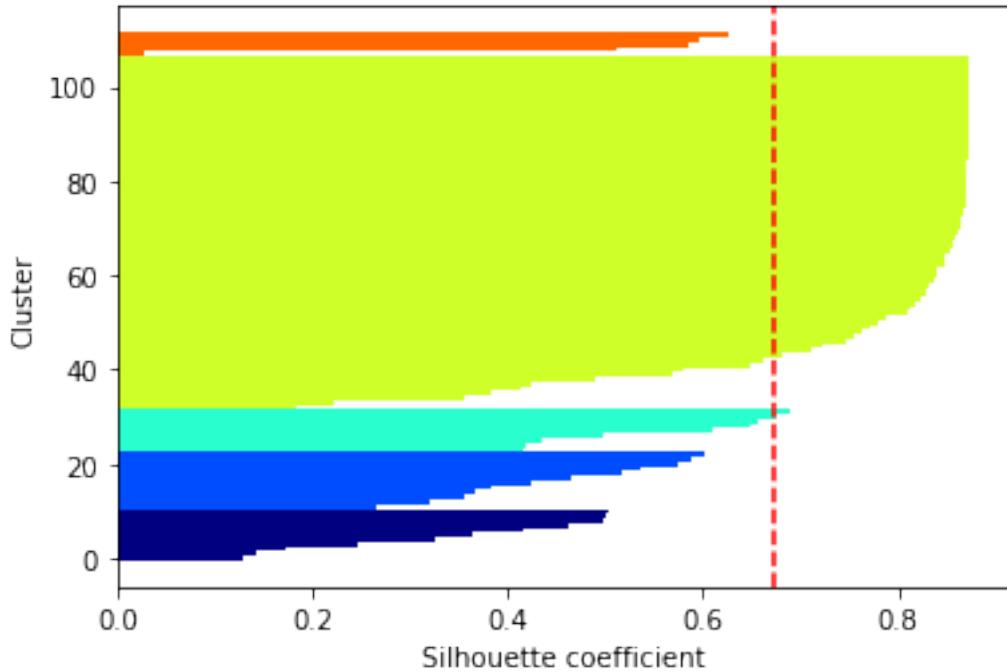
Silhouette Coefficient: 0.800  
Calinski-Harabasz Score: 218.499  
Davies Bouldin Score: 0.480

4 Clusters



Silhouette Coefficient: 0.650  
Calinski-Harabasz Score: 217.782  
Davies Bouldin Score: 0.668

5 Clusters

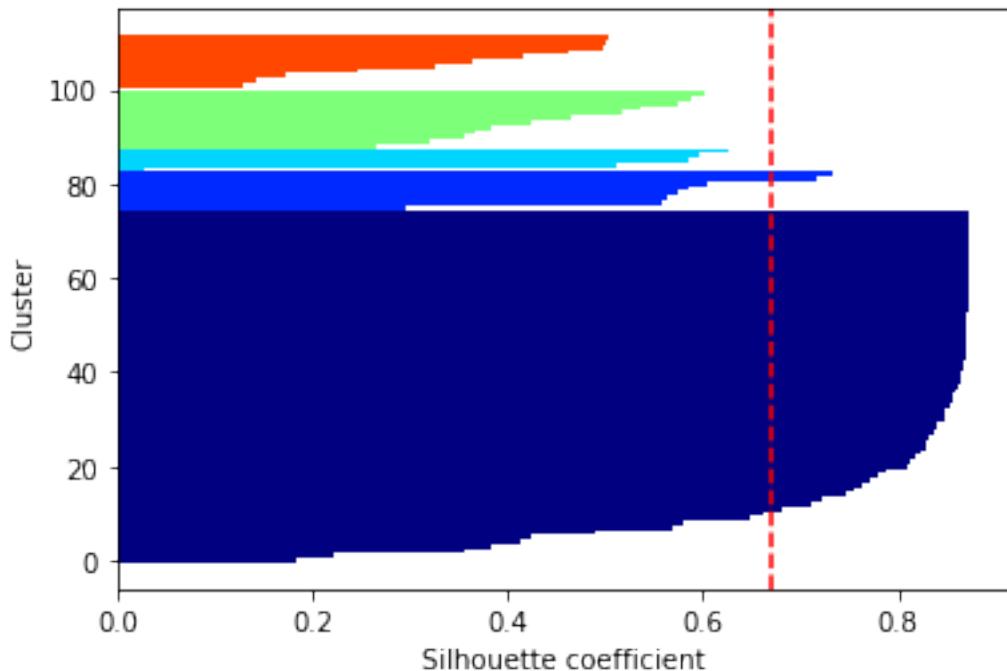


Silhouette Coefficient: 0.674

Calinski-Harabasz Score: 205.555

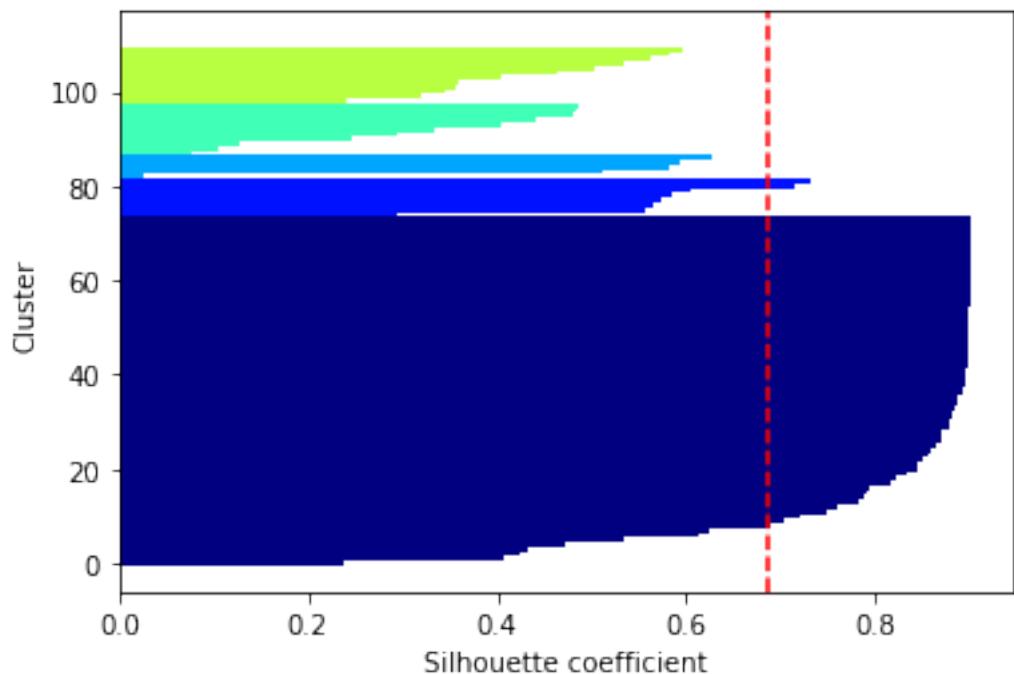
Davies Bouldin Score: 0.621

6 Clusters



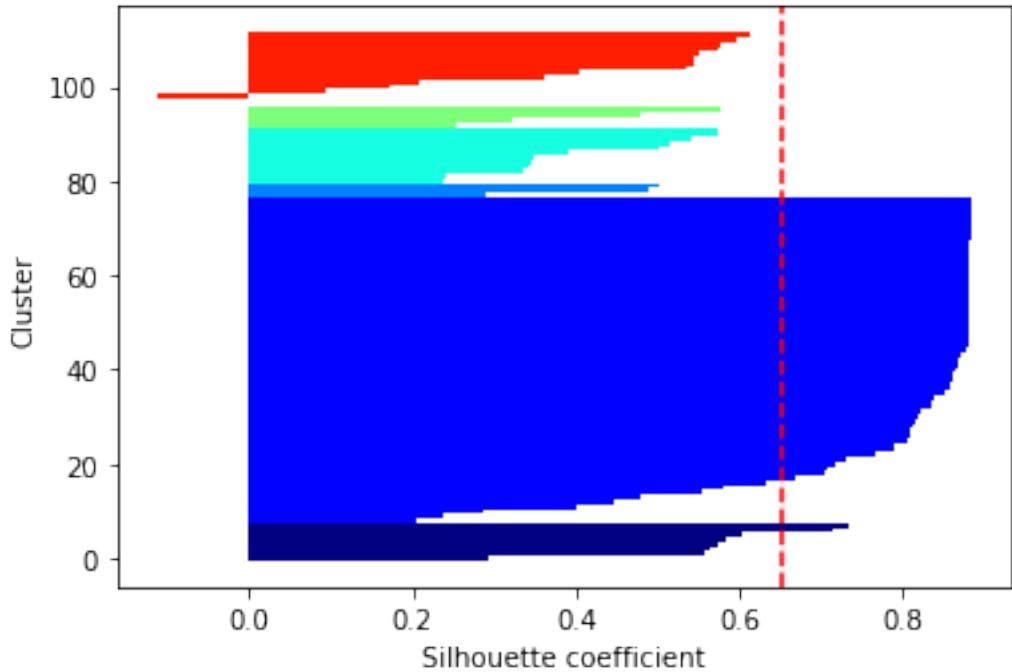
Silhouette Coefficient: 0.670  
Calinski-Harabasz Score: 213.136  
Davies Bouldin Score: 0.543

7 Clusters



Silhouette Coefficient: 0.686  
Calinski-Harabasz Score: 240.731  
Davies Bouldin Score: 0.486

8 Clusters

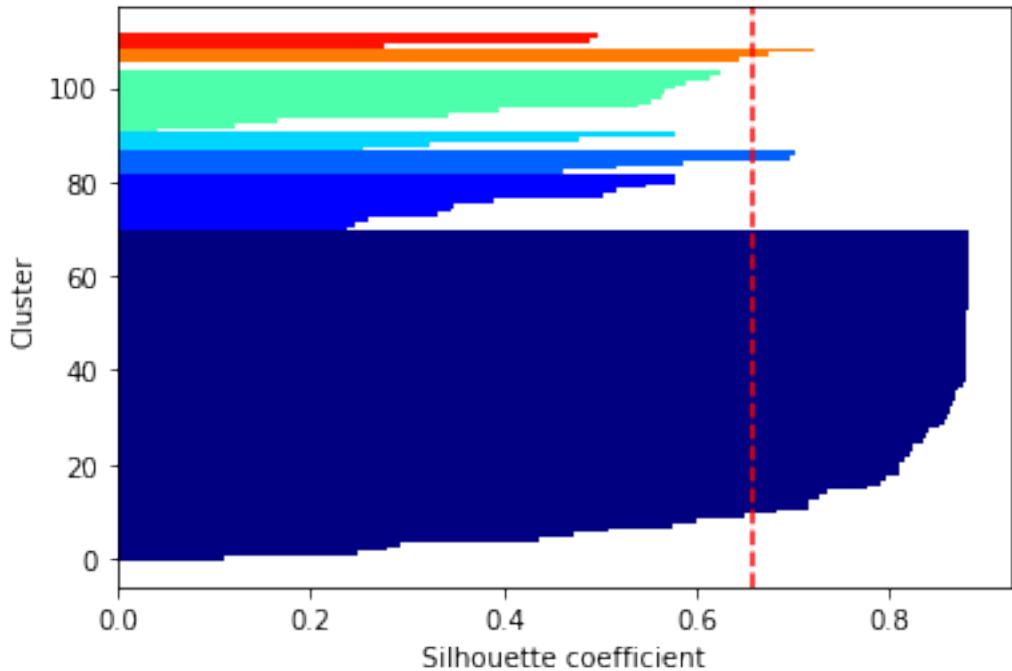


Silhouette Coefficient: 0.651

Calinski-Harabasz Score: 279.049

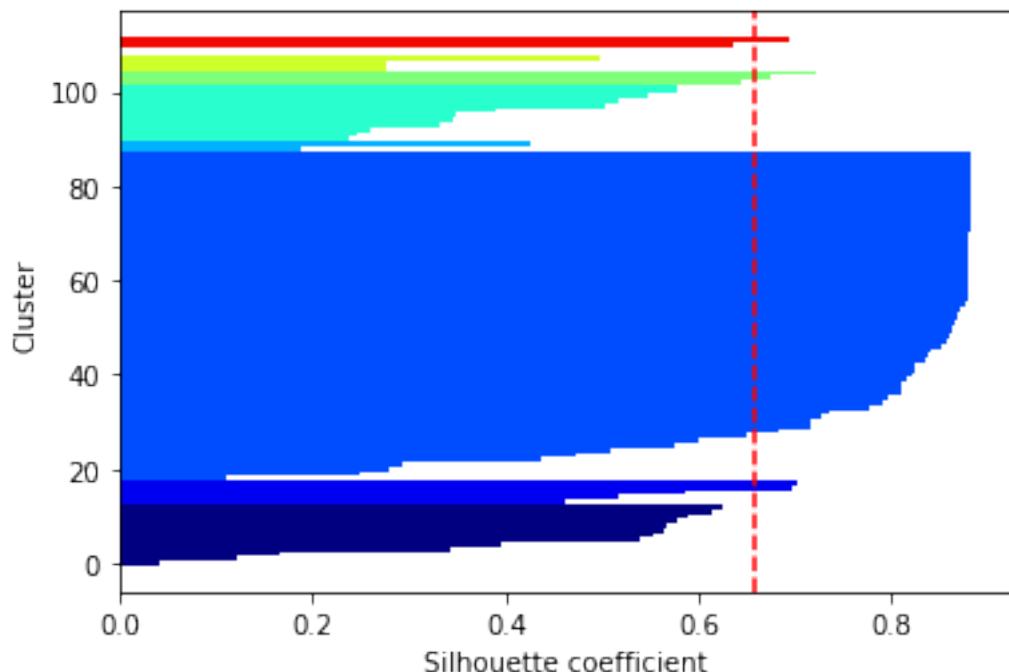
Davies Bouldin Score: 0.471

9 Clusters



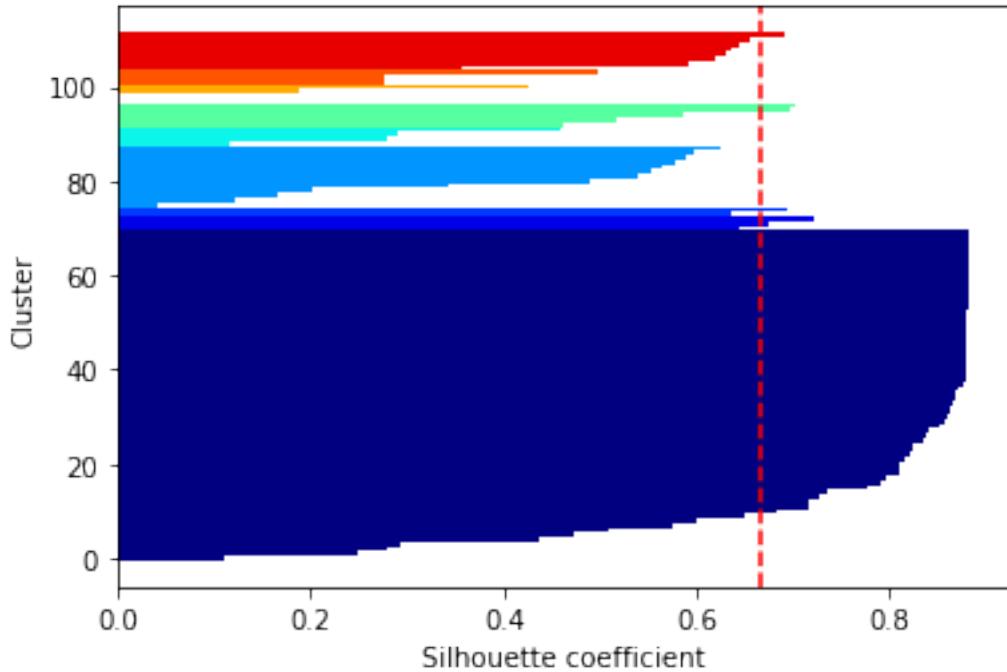
Silhouette Coefficient: 0.657  
Calinski-Harabasz Score: 326.337  
Davies Bouldin Score: 0.469

10 Clusters



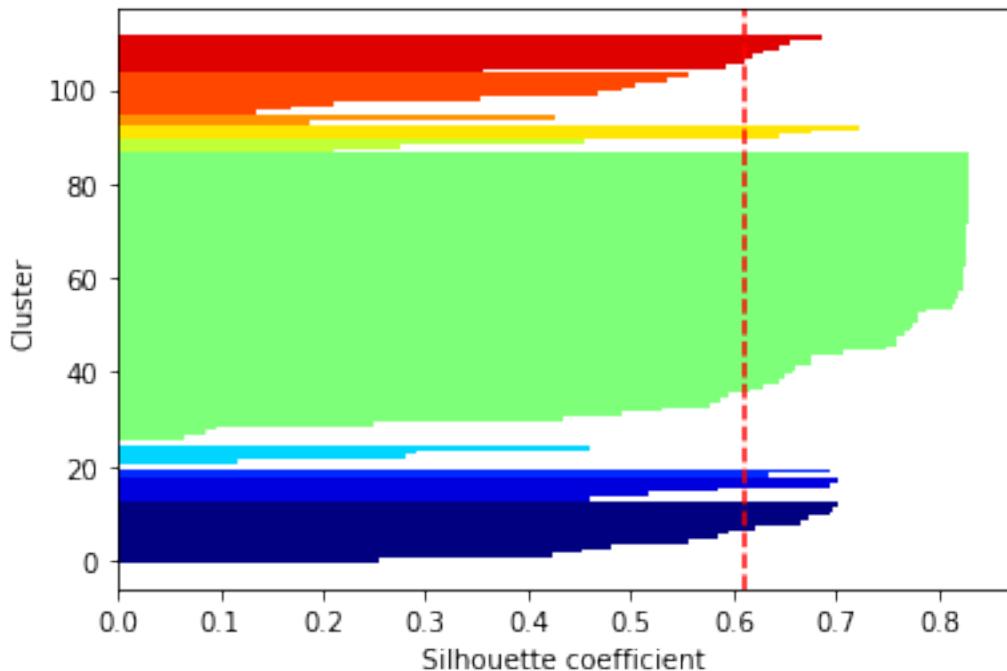
Silhouette Coefficient: 0.658  
Calinski-Harabasz Score: 371.530  
Davies Bouldin Score: 0.449

11 Clusters



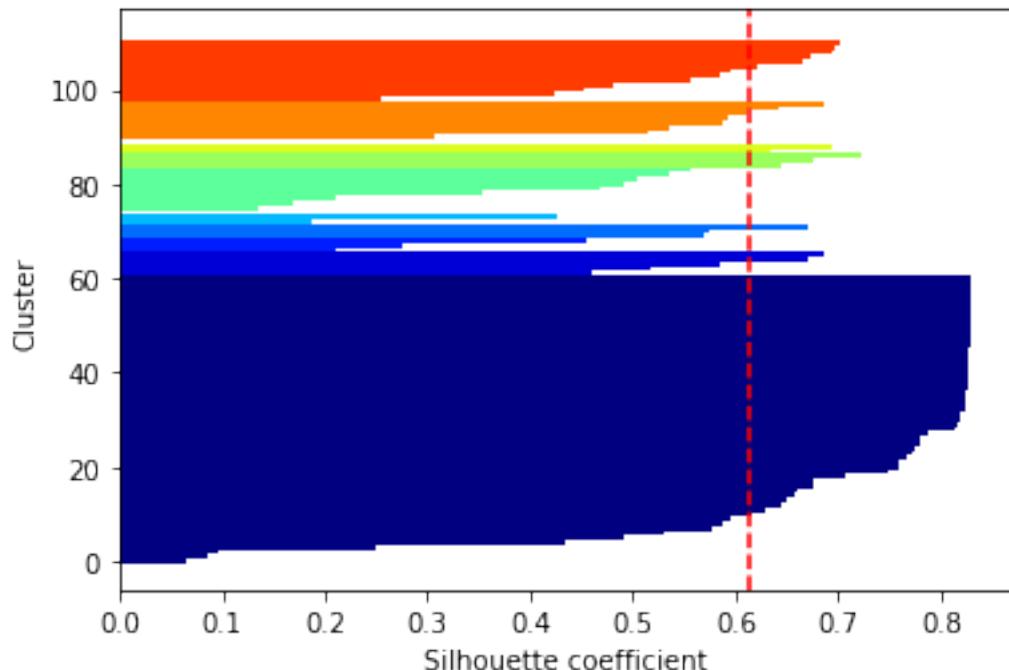
Silhouette Coefficient: 0.665  
Calinski-Harabasz Score: 430.005  
Davies Bouldin Score: 0.474

12 Clusters



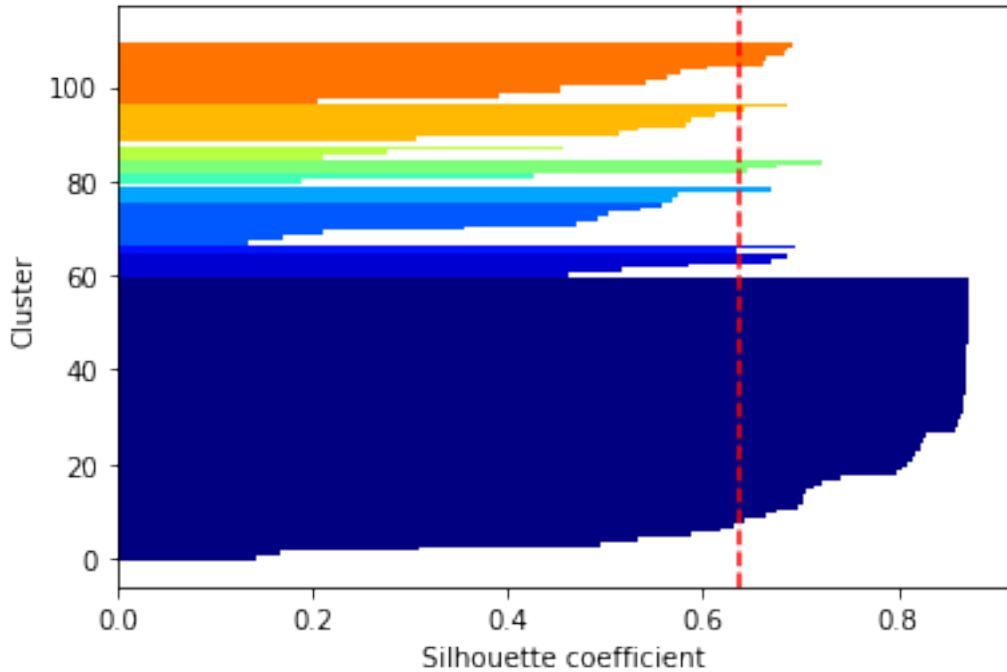
Silhouette Coefficient: 0.611  
Calinski-Harabasz Score: 450.651  
Davies Bouldin Score: 0.488

13 Clusters



Silhouette Coefficient: 0.614  
Calinski-Harabasz Score: 473.561  
Davies Bouldin Score: 0.435

14 Clusters



Silhouette Coefficient: 0.636  
Calinski-Harabasz Score: 526.046  
Davies Bouldin Score: 0.415

### 3 DBSCAN

#### 3.1 DBSCAN Polynomial Interpolation

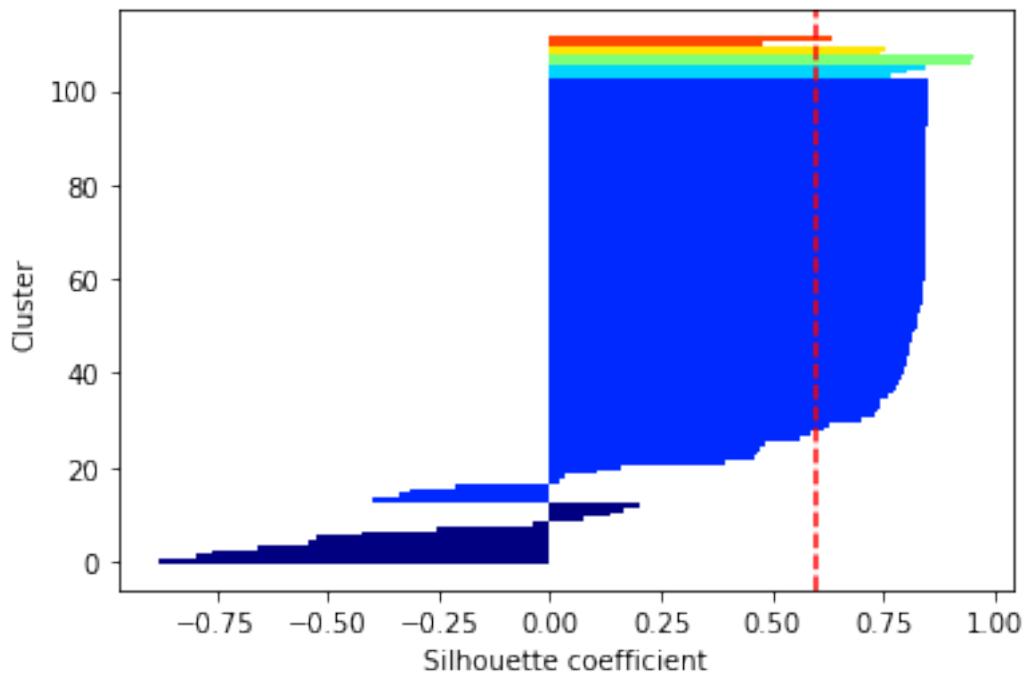
[-1 0 1 2 3 4]

	Profile	Label
0	K79_200	0
1	K79_201	0
2	K79_203	0
3	K79_204	0
4	K79_206	0
5	K79_207	-1
6	K79_209	-1
7	K79_210	0
8	K79_211	0
9	K79_212	0
10	K79_213	0
11	K79_214	0
12	K79_215	0

13	K79_216	0
14	K79_217	0
15	K79_218	0
16	K79_219	0
17	K79_220	0
18	K79_222	0
19	K79_223	0
20	K79_224	0
21	K79_225	0
22	K79_226	0
23	K79_227	0
24	K79_228	0
25	K79_229	0
26	K79_230	0
27	K79_231	0
28	K79_232	0
29	K79_235	1
30	K79_237	0
31	K79_238	0
32	K79_239	0
33	K79_241	-1
34	K79_242	0
35	K79_243	0
36	K79_244	0
37	K79_246	0
38	K79_247	0
39	K79_248	0
40	K79_249	0
41	K79_250	0
42	K79_252	0
43	K79_253	0
44	K79_254	0
45	K79_255	0
46	K79_256	0
47	K79_259	0
48	K79_260	-1
49	K79_263	2
50	K79_264	0
51	K79_266	0
52	K79_267	0
53	K79_268	-1
54	K79_269	2
55	K79_270	-1
56	K79_271	3
57	K79_272	0
58	K79_273	0
59	K79_275	4
60	K79_276	0

61	K79_278	0
62	K79_280	0
63	K79_281	0
64	K79_282	0
65	K79_284	0
66	K79_285	0
67	K79_287	0
68	K79_288	0
69	K79_289	0
70	K79_290	0
71	K79_291	0
72	K79_292	0
73	K79_294	0
74	K79_295	4
75	K79_296	-1
76	K79_301	0
77	K79_302	1
78	K79_305	3
79	K79_307	0
80	K79_309	0
81	K79_310	0
82	K79_312	0
83	K79_314	0
84	K79_315	0
85	K79_316	-1
86	K79_317	0
87	K79_318	1
88	K79_319	0
89	K79_322	0
90	K79_324	0
91	K79_325	0
92	K79_328	0
93	K79_330	0
94	K79_332	0
95	K79_333	-1
96	K79_335	0
97	K79_337	0
98	K79_400	0
99	K79_401	0
100	K79_402	0
101	K79_403	0
102	K79_500	0
103	K79_501	0
104	K79_502	0
105	K79_503	-1
106	K79_504	-1
107	K79_505	-1
108	K79_506	0

109	K79_507	0
110	K79_508	-1
111	K79_509	0



Silhouette Coefficient: 0.596  
Calinski-Harabasz Index: 30.065  
Davies Bouldin Score: 1.161