Export Comparison QAQC Report

(SIDBGD) SEACAR Internal Divison for the Betterment and Goodification of Data

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This document is intended to provide an overview of newly-exported Combined Tables.

Discrete WQ

Overview

Table 1: Comparison of New vs. Old data exports - (Discrete WQ)

parameter	*oldFile*	*newFile*	*nDataOld*	*nDataNew*	*difference*
Ammonia, Un-ionized (NH3)	2024-Apr-15	2024-Jun-06	523	523	0
Chlorophyll a, Corrected for Pheophytin	2024-Apr-15	2024-Jun-06	45617	46846	1229
Chlorophyll a, Uncorrected for Pheophytin	2024-Apr-15	2024-Jun-06	81986	84085	2099
Colored Dissolved Organic Matter	2024-Apr-15	2024-Jun-06	22595	22595	0
Dissolved Oxygen	2024-Apr-15	2024-Jun-06	772363	830652	58289
Dissolved Oxygen Saturation	2024-Apr-15	2024-Jun-06	143641	147277	3636
Light Extinction Coefficient	2024-Apr-15	2024-Jun-06	15548	15550	2
Ammonium, Filtered (NH4)	2024-Apr-15	2024-Jun-06	124964	125542	578
Nitrate (NO3)	2024-Apr-15	2024-Jun-06	19749	19780	31
Nitrite (NO2)	2024-Apr-15	2024-Jun-06	32491	32521	30
Nitrogen, organic	2024-Apr-15	2024-Jun-06	7524	7524	0
NO2+3, Filtered	2024-Apr-15	2024-Jun-06	139522	142550	3028
pH	2024-Apr-15	2024-Jun-06	605140	663475	58335
Phosphate, Filtered (PO4)	2024-Apr-15	2024-Jun-06	61140	63087	1947
Salinity	2024-Apr-15	2024-Jun-06	769404	828088	58684
Secchi Depth	2024-Apr-15	2024-Jun-06	286659	339674	53015
Specific Conductivity	2024-Apr-15	2024-Jun-06	394003	452753	58750
Total Kjeldahl Nitrogen	2024-Apr-15	2024-Jun-06	98247	100183	1936
Total Nitrogen	2024-Apr-15	2024-Jun-06	131976	133952	1976
Total Phosphorus	2024-Apr-15	2024-Jun-06	142074	144617	2543
Total Suspended Solids	2024-Apr-15	2024-Jun-06	71502	73539	2037
Turbidity	2024-Apr-15	2024-Jun-06	293899	297237	3338
Water Temperature	2024-Apr-15	2024-Jun-06	821201	880134	58933

Program Differences

Red ProgramIDs are Programs in the Old Exports but not in the New Exports
Green ProgramIDs are Programs in the New Exports but not in the Old Exports

There is a difference in Programs between exports for the following parameters:

Specific Conductivity

Programs in old export: (n=30)
69, 95, 102, 103, 115, 119, 354, 355, 470, 477, 479, 513, 514, 537, 540, 558, 572, 3000, 3013, 4042, 4044, 4054, 4058, 4067, 5002, 5008, 5014, 5026, 5028, 10000
Programs in new export: (n=31)
69, 95, 102, 103, 115, 119, 354, 355, 470, 476, 477, 479, 513, 514, 537, 540, 558, 572, 3000, 3013, 4042, 4044, 4054, 4058, 4067, 5002, 5008, 5014, 5026, 5028, 10000

Turbidity

Programs in old export: (n=32)
95, 103, 129, 297, 303, 354, 355, 469, 470, 476, 477, 479, 505, 509, 513, 537, 540, 572, 965, 3000, 3013, 4042, 4044, 4054, 4058, 4063, 5002, 5014, 5026, 5033, 5058, 10000
Programs in new export: (n=33)
95, 103, 129, 297, 303, 354, 355, 469, 470, 476, 477, 479, 505, 509, 513, 537, 540, 557, 572, 965, 3000, 3013, 4042, 4044, 4054, 4058, 4063, 5002, 5014, 5026, 5033, 5058, 10000

Differences in Program data between exports

Ammonia, Un-ionized (NH3)

Table 2: Number of data entries by program - Ammonia, Un-ionized (NH3)

ProgramID	*nOld*	*nNew*	*difference*
5028	523	523	0

Chlorophyll a, Corrected for Pheophytin

Table 3: Number of data entries by program - Chlorophyll a, Corrected for Pheophytin

ProgramID	*nOld*	*nNew*	*difference*
103	1353	1362	9
303	731	731	0
355	5366	5366	0
470	686	686	0
476	2927	2927	0
477	135	135	0
479	291	291	0
505	168	168	0
513	921	921	0
514	1181	1181	0
537	35	35	0
540	468	468	0
4054	5848	5848	0
4063	65	65	0
5002	18829	20019	1190
5008	737	737	0
5014	619	619	0
5026	287	287	0
5028	713	713	0
5033	1200	1200	0
10000	2256	2256	0

Chlorophyll a, Uncorrected for Pheophytin

Table 4: Number of data entries by program - Chlorophyll a, Uncorrected for Pheophytin

ProgramID	*nOld*	*nNew*	*difference*
3	3879	4139	260
60	366	366	0
95	1888	1888	0
103	4780	4829	49
115	69	69	0
118	109	109	0
297	15646	15657	11

354	4122	4122	0
355	1737	1737	0
470	544	544	0
476	2933	2933	0
477	137	137	0
479	1839	1839	0
509	6172	6172	0
514	3312	9818	6506
537	44	44	0
540	458	458	0
4054	4433	4433	0
5002	23346	18584	-4762
5008	747	747	0
5014	677	677	0
5026	410	410	0
5028	282	282	0
5058	268	268	0
10000	2860	2860	0

Colored Dissolved Organic Matter

Table 5: Number of data entries by program - Colored Dissolved Organic Matter

ProgramID	*nOld*	*nNew*	*difference*
3	467	467	0
103	1294	1294	0
476	1140	1140	0
477	174	174	0
479	3269	3269	0
513	624	624	0
514	3657	3657	0
537	17	17	0
540	374	374	0
4054	1328	1328	0
4063	64	64	0
5002	7307	7307	0
5008	2269	2269	0
5014	7	7	0
10000	525	525	0

Dissolved Oxygen

Table 6: Number of data entries by program - Dissolved Oxygen

ProgramID	*nOld*	*nNew*	*difference*
60	1657	1657	0
62	1182	1182	0
69	224765	276902	52137
95	14441	15152	711
102	46	46	0

103	23938	24048	110
115	322	355	33
118	549	549	0
119	14	14	0
129	3933	3941	8
297	31709	31754	45
303	68	68	0
354	1224	1225	1
355	2464	2464	0
469	985	1167	182
470	242	242	0
476	4358	4358	0
477	167	167	0
479	19880	19880	0
505	184	184	0
509	12203	12158	-45
513	442	442	0
537	290	290	0
540	393	393	0
557	841	1129	288
560	2104	2104	0
572	27	27	0
899	93	93	0
3000	386	386	0
3001	12374	12749	375
3013	2283	2283	0
4042	46	62	16
4043	2972	2977	5
4044	290	290	0
4049	1152	1152	0
4054	2792	2792	0
4057	225	225	0
4058	1834	2254	420
4064	619	619	0
4065	314	314	0
4067	17489	17562	73
5002	366912	370822	3910
5008	2278	2278	0
5014	275	275	0
5026	1135	1135	0
5028	150	150	0
5058	266	266	0
5071	4	4	0
10000	6160	6160	0

Dissolved Oxygen Saturation

Table 7: Number of data entries by program - Dissolved Oxygen Saturation

ProgramID	*nOld*	*nNew*	*difference*
60	1273	1273	0
62	960	960	0

95	1497	1498	1
102	333	333	0
129	3933	3933	0
297	25419	25419	0
303	594	594	0
354	1118	1118	0
355	2464	2464	0
470	2	2	0
476	801	801	0
477	167	167	0
505	175	175	0
513	412	412	0
537	288	288	0
540	3	3	0
558	37	37	0
572	27	27	0
3001	12290	12665	375
3013	1160	1160	0
4042	37	53	16
4044	290	290	0
4054	4	4	0
4064	619	619	0
4067	17030	17104	74
5002	62331	65500	3169
5008	2278	2278	0
5014	254	254	0
5026	426	426	0
5028	164	164	0
10000	5850	5850	0

Light Extinction Coefficient

Table 8: Number of data entries by program - Light Extinction Coefficient

ProgramID	*nOld*	*nNew*	*difference*
3	323	323	0
297	10401	10403	2
479	1252	1252	0
509	491	491	0
4064	619	619	0
5002	2328	2328	0
5058	133	133	0

Ammonium, Filtered (NH4)

Table 9: Number of data entries by program - Ammonium, Filtered (NH4)

ProgramID	*nOld*	*nNew*	*difference*
3	2780	3128	348

103	43	71	28
115	64	64	0
297	25297	25297	0
303	466	466	0
354	3811	3811	0
355	5174	5174	0
470	171	171	0
476	10	10	0
477	175	175	0
479	3152	3152	0
505	119	119	0
509	6193	6193	0
513	752	752	0
4054	5739	5739	0
4063	66	66	0
5002	58102	58304	202
5014	592	592	0
5026	744	744	0
5028	199	199	0
5033	8370	8370	0
5058	268	268	0
10000	483	483	0

Nitrate (NO3)

Table 10: Number of data entries by program - Nitrate (NO3)

ProgramID	*nOld*	*nNew*	*difference*
303	8	8	0
354	1976	1976	0
513	25	25	0
4063	2	2	0
5002	9235	9266	31
5033	8367	8367	0

Nitrite (NO2)

Table 11: Number of data entries by program - Nitrite (NO2)

ProgramID	*nOld*	*nNew*	*difference*
297	5081	5081	0
303	7	7	0
354	2180	2180	0
479	308	308	0
513	564	564	0
4054	1656	1656	0
4063	67	67	0
5002	11817	11847	30
5033	8373	8373	0
10000	17	17	0

Nitrogen, organic

Table 12: Number of data entries by program - Nitrogen, organic

ProgramID	*nOld*	*nNew*	*difference*
5002	7121	7121	0

NO2+3, Filtered

Table 13: Number of data entries by program - NO2+3, Filtered

ProgramID	*nOld*	*nNew*	*difference*
3	2521	2869	348
115	61	61	0
297	19920	19920	0
303	493	493	0
354	3081	3081	0
355	4713	4713	0
470	460	460	0
476	4876	4876	0
477	175	175	0
479	3078	3078	0
505	102	102	0
509	6215	6215	0
513	1949	1949	0
540	464	464	0
4054	5433	5433	0
4058	1859	2227	368
4063	62	62	0
5002	66190	68447	2257
5014	560	560	0
5026	1108	1108	0
5028	768	768	0
5033	8371	8371	0
5058	268	268	0
10000	3220	3220	0

pH

Table 14: Number of data entries by program - pH

ProgramID	*nOld*	*nNew*	*difference*
3	21	21	0
69	223773	275616	51843
95	12157	12891	734
103	13818	13822	4
115	319	352	33
118	340	340	0
129	2201	2248	47
297	36	114	78
303	533	533	0

354	884	885	1
355	1284	1284	0
469	987	1168	181
470	244	244	0
476	4761	4761	0
477	171	171	0
479	17487	17487	0
509	3472	3472	0
513	442	442	0
537	290	290	0
540	345	345	0
557	693	948	255
558	218	218	0
560	1841	1841	0
899	88	88	0
3000	331	331	0
3001	11783	12159	376
3013	2271	2271	0
4042	40	56	16
4044	290	290	0
4049	1265	1265	0
4054	2775	2775	0
4057	228	228	0
4058	1877	2308	431
4065	314	314	0
4067	13653	13727	74
5002	270064	274319	4255
5008	2271	2271	0
5014	283	283	0
5026	1151	1151	0
5028	211	211	0
10000	5914	5914	0

Phosphate, Filtered (PO4)

Table 15: Number of data entries by program - Phosphate, Filtered (PO4)

ProgramID	*nOld*	*nNew*	*difference*
3	4006	4354	348
103	48	75	27
115	63	63	0
354	4108	4108	0
355	3176	3176	0
479	2075	2075	0
505	102	102	0
513	1624	1624	0
3000	381	381	0
4054	4171	4171	0
5002	36205	37734	1529
10000	1962	1962	0

Salinity

Table 16: Number of data entries by program - Salinity

ProgramID	*nOld*	*nNew*	*difference*
3	4287	4636	349
60	1589	1589	0
62	1142	1142	0
69	226485	278912	52427
95	25892	26609	717
102	383	383	0
103	196	207	11
115	327	360	33
118	535	535	0
119	14	14	0
129	3888	3968	80
297	31270	31427	157
303	620	620	0
354	1282	1283	1
355	2501	2501	0
456	134	134	0
469	987	1169	182
470	2	2	0
476	4999	4999	0
477	135	135	0
479	19920	19920	0
505	188	188	0
509	12190	12034	-156
513	306	306	0
537	288	288	0
540	424	424	0
557	864	1113	249
558	390	390	0
560	2129	2129	0
572	31	31	0
899	82	82	0
965	4157	4157	0
3000	388	388	0
3001	12345	12721	376
3013	2346	2346	0
3016	81	81	0
4042	46	62	16
4043	3042	3042	0
4044	290	290	0
4049	1354	1354	0
4054	3307	3307	0
4057	230	230	0
4058	1869	2308	439
4064	619	619	0
4065	314	314	0
4067	12523	12597	74
5002	374746	378473	3727
5014	283	283	0

5026	435	435	0
5028	211	211	0
5058	266	266	0
5071	4	4	0
10000	5617	5617	0

Secchi Depth

Table 17: Number of data entries by program - Secchi Depth

ProgramID	*nOld*	*nNew*	*difference*
60	42	42	0
69	215520	267668	52148
103	2973	3121	148
115	88	88	0
118	70	70	0
129	1966	1966	0
303	4	4	0
355	952	952	0
469	516	610	94
470	298	298	0
476	3769	3769	0
477	171	171	0
479	8549	8549	0
513	159	159	0
514	9304	9317	13
537	220	220	0
557	508	658	150
558	519	519	0
560	333	333	0
572	9	9	0
3000	143	143	0
3001	8308	8683	375
3013	2265	1989	-276
3016	50	50	0
4049	317	317	0
4054	936	936	0
4065	318	318	0
5002	17832	17921	89
5008	1742	1742	0
5014	240	240	0
5026	425	425	0
5028	90	90	0
5033	4797	4797	0
10000	2890	2890	0

Specific Conductivity

Table 18: Number of data entries by program - Specific Conductivity

ProgramID	*nOld*	*nNew*	*difference*

69	201662	248260	46598
95	2799	2834	35
102	297	297	0
103	10667	10667	0
115	65	65	0
119	14	14	0
354	425	425	0
355	628	628	0
470	242	242	0
477	334	334	0
479	15148	15148	0
513	442	442	0
514	296	2602	2306
537	243	243	0
540	5	5	0
558	391	391	0
572	27	27	0
3000	2	2	0
3013	2290	2290	0
4042	37	53	16
4044	288	288	0
4054	967	967	0
4058	1873	2301	428
4067	13400	13474	74
5002	106233	110341	4108
5008	2277	2277	0
5014	283	283	0
5026	709	709	0
5028	5	5	0
10000	6180	6180	0

Total Kjeldahl Nitrogen

Table 19: Number of data entries by program - Total Kjeldahl Nitrogen

ProgramID	*nOld*	*nNew*	*difference*
103	221	221	0
303	504	504	0
354	170	170	0
355	766	766	0
470	487	487	0
476	4707	4706	-1
477	175	175	0
479	2822	2822	0
513	1103	1103	0
540	469	469	0
4054	2334	2334	0
4058	1832	2183	351
4063	65	65	0
5002	66076	67561	1485
5014	1234	1234	0
5026	1117	1117	0

5028	753	753	0
5033	8364	8364	0
10000	2570	2570	0

Total Nitrogen

Table 20: Number of data entries by program - Total Nitrogen

ProgramID	*nOld*	*nNew*	*difference*
103	532	560	28
115	64	64	0
118	43	43	0
297	25903	25903	0
303	506	506	0
354	630	631	1
355	584	584	0
470	436	436	0
476	4514	4514	0
477	1	1	0
479	8202	8202	0
505	42	42	0
509	6212	6212	0
513	755	755	0
514	10430	10437	7
537	234	234	0
540	468	468	0
4054	2840	2840	0
4058	1831	2125	294
4063	62	62	0
5002	60791	62384	1593
5008	758	758	0
5014	551	551	0
5026	1081	1077	-4
5028	752	752	0
5058	268	268	0
10000	2079	2079	0

Total Phosphorus

Table 21: Number of data entries by program - Total Phosphorus

ProgramID	*nOld*	*nNew*	*difference*
103	5666	5682	16
115	64	64	0
118	15	15	0
297	25667	25667	0
303	490	490	0
354	796	796	0
355	771	771	0
470	447	447	0
476	4798	4798	0

477	175	175	0
479	8190	8190	0
505	39	39	0
509	6187	6187	0
513	1124	1124	0
514	10453	10460	7
537	226	226	0
540	460	460	0
4054	4246	4246	0
4058	1815	2196	381
4063	65	65	0
5002	53583	55611	2028
5008	758	758	0
5014	620	620	0
5026	1110	1110	0
5028	759	759	0
5033	8365	8365	0
5058	268	268	0
10000	3224	3224	0

Total Suspended Solids

Table 22: Number of data entries by program - Total Suspended Solids

ProgramID	*nOld*	*nNew*	*difference*
3	578	578	0
103	3614	3614	0
354	18	18	0
355	753	753	0
470	230	230	0
476	10	10	0
477	26	26	0
479	3374	3374	0
505	78	78	0
513	1078	1078	0
4054	3562	3562	0
4063	66	66	0
5002	43209	45224	2015
5014	139	139	0
5026	1517	1517	0
5033	8993	8993	0
10000	3081	3081	0

Turbidity

Table 23: Number of data entries by program - Turbidity

ProgramID	*nOld*	*nNew*	*difference*
95	398	398	0
103	19539	19595	56

129	2253	2253	0
297	26297	26377	80
303	604	604	0
354	734	734	0
355	1831	1831	0
469	299	481	182
470	171	171	0
476	4988	4988	0
477	340	340	0
479	4894	4894	0
505	74	74	0
509	6178	6178	0
513	715	715	0
537	282	282	0
540	99	99	0
572	4	4	0
965	2076	2076	0
3000	379	379	0
3013	1699	1699	0
4042	45	61	16
4044	114	114	0
4054	2586	2586	0
4058	1869	2316	447
4063	56	56	0
5002	202359	204547	2188
5014	139	139	0
5026	410	410	0
5033	8370	8370	0
5058	264	264	0
10000	3254	3254	0

Water Temperature

Table 24: Number of data entries by program - Water Temperature

ProgramID	*nOld*	*nNew*	*difference*
3	655	655	0
60	1643	1643	0
62	1182	1182	0
69	226864	279298	52434
95	25086	25830	744
102	366	366	0
103	25242	25337	95
115	325	358	33
118	377	377	0
119	13	13	0
129	3887	3959	72
297	31235	31387	152
303	605	605	0
354	1281	1281	0
355	2484	2484	0
456	133	133	0
469	988	1170	182

470	245	245	0
476	5044	5044	0
477	172	172	0
479	18404	18404	0
505	188	188	0
509	12196	12044	-152
513	442	442	0
537	290	290	0
540	434	434	0
557	866	1118	252
558	416	416	0
560	2129	2129	0
572	30	30	0
899	85	85	0
965	4157	4157	0
982	916	1129	213
3000	379	379	0
3001	12404	12780	376
3013	2336	2336	0
3016	49	49	0
4042	46	62	16
4043	3036	3039	3
4044	282	282	0
4049	1354	1354	0
4054	2889	2889	0
4057	227	227	0
4058	1866	2298	432
4064	619	619	0
4065	314	314	0
4067	16093	16167	74
5002	399367	403374	4007
5008	2278	2278	0
5014	283	283	0
5026	1152	1152	0
5028	197	197	0
5058	264	264	0
5071	4	4	0
10000	4010	4010	0

Continuous WQ

Overview

Table 25: Comparison of New vs. Old data exports - (Continuous WQ)

parameter	*region*	*oldFile*	*newFile*	*nDataOld*	*nDataNew*	*difference*	*pctChange*
Dissolved Oxygen	NW	2024-Mar-23	2024-Jun-06	4251730	4351408	99678	2.34
Dissolved Oxygen	NE	2024-Mar-23	2024-Jun-06	2874036	3096851	222815	7.75
Dissolved Oxygen	SW	2024-Mar-23	2024-Jun-06	5584165	5177830	-406335	-7.28
Dissolved Oxygen	SE	2024-Mar-23	2024-Jun-06	613852	664324	50472	8.22
Dissolved Oxygen Saturation	NW	2024-Mar-23	2024-Jun-06	4272271	4376995	104724	2.45
Dissolved Oxygen Saturation	NE	2024-Mar-23	2024-Jun-06	2899067	3122810	223743	7.72
Dissolved Oxygen Saturation	SW	2024-Mar-23	2024-Jun-06	5620446	5212293	-408153	-7.26
Dissolved Oxygen Saturation	SE	2024-Mar-23	2024-Jun-06	617484	668946	51462	8.33
pH	NW	2024-Mar-23	2024-Jun-06	4484896	4586234	101338	2.26
pH	NE	2024-Mar-23	2024-Jun-06	2824312	3042599	218287	7.73
pH	SW	2024-Mar-23	2024-Jun-06	5987578	5506772	-480806	-8.03
pH	SE	2024-Mar-23	2024-Jun-06	615939	665964	50025	8.12
Salinity	NW	2024-Mar-23	2024-Jun-06	4841665	4936599	94934	1.96
Salinity	NE	2024-Mar-23	2024-Jun-06	2922861	3143712	220851	7.56
Salinity	SW	2024-Mar-23	2024-Jun-06	6308474	5823257	-485217	-7.69
Salinity	SE	2024-Mar-23	2024-Jun-06	695491	745516	50025	7.19
Turbidity	NW	2024-Mar-23	2024-Jun-06	4276280	4386808	110528	2.58
Turbidity	NE	2024-Mar-23	2024-Jun-06	2784663	3002932	218269	7.84
Turbidity	SW	2024-Mar-23	2024-Jun-06	5581599	5138133	-443466	-7.95
Turbidity	SE	2024-Mar-23	2024-Jun-06	622713	670267	47554	7.64
Water Temperature	NW	2024-Mar-23	2024-Jun-06	6295910	6429155	133245	2.12
Water Temperature	NE	2024-Mar-23	2024-Jun-06	3057038	3284253	227215	7.43
Water Temperature	SW	2024-Mar-23	2024-Jun-06	7938189	7419432	-518757	-6.53
Water Temperature	SE	2024-Mar-23	2024-Jun-06	19504308	19583717	79409	0.41

Differences in Program data between exports

Dissolved Oxygen

Table 26: Number of data entries by program - Dissolved Oxygen

ProgramID	*nOld*	*nNew*	*difference*
7	9132	9132	0
7	689	689	0
7	1302	1302	0
354	2572318	2605529	33211
355	3061283	3096192	34909
467	221521	223874	2353
468	177846	207810	29964
471	778154	810606	32452
473	8153	8153	0
474	1429985	967358	-462627
505	3794	3794	0
512	1572407	1595488	23081
4054	2345905	2569101	223196
5005	39746	39746	0
5006	283080	281047	-2033
5061	164124	165776	1652
5077	613852	664324	50472
10003	40492	40492	0

Dissolved Oxygen Saturation

Table 27: Number of data entries by program - Dissolved Oxygen Saturation

ProgramID	*nOld*	*nNew*	*difference*
354	2597096	2630307	33211
355	3066642	3101551	34909
467	227789	230142	2353
468	193941	223905	29964
471	780151	817649	37498
473	8153	8153	0
474	1443830	979385	-464445
505	3748	3748	0
512	1571367	1594448	23081
4054	2364299	2588423	224124
5005	39746	39746	0
5006	283113	281080	-2033
5061	171417	173069	1652
5077	617484	668946	51462
10003	40492	40492	0

pH

Table 28: Number of data entries by program - pH

ProgramID	*nOld*	*nNew*	*difference*
7	8809	8809	0
7	1164	1164	0
354	2827053	2860264	33211
355	3100533	3135442	34909
467	236519	238872	2353
468	199162	231686	32524
471	938733	970285	31552
473	8306	8306	0
474	1678153	1135495	-542658
505	1140	1140	0
512	1472902	1501543	28641
4054	2294634	2517269	222635
5005	38184	38184	0
5006	286234	281886	-4348
5061	163886	163886	0
5077	615939	665964	50025
10003	41374	41374	0

Salinity

Table 29: Number of data entries by program - Salinity

ProgramID	*nOld*	*nNew*	*difference*
2	86204	86204	0
7	634	634	0
7	17692	17692	0
7	33978	33978	0
7	1510	1510	0
354	2933302	2966513	33211
355	3212589	3247498	34909
467	238173	240526	2353
468	196061	221287	25226
471	1190339	1222785	32446
473	8304	8304	0
474	1707013	1159380	-547633
505	3869	3869	0
512	1625877	1655082	29205
4054	2331460	2552698	221238
5005	43791	43791	0
5006	294941	292902	-2039
5061	158685	160337	1652
5062	34918	34918	0
5077	607777	657802	50025
10003	41374	41374	0

Turbidity

Table 30: Number of data entries by program - Turbidity

ProgramID	*nOld*	*nNew*	*difference*
7	1174	1174	0
354	2766924	2800135	33211
355	2994251	3029152	34901
467	250273	252626	2353
468	156660	193869	37209
471	872754	908819	36065
473	8263	8263	0
474	1426676	935185	-491491
505	2342	2342	0
512	1378562	1393376	14814
4054	2274403	2492832	218429
5005	39124	39124	0
5006	286204	284397	-1807
5061	143763	145410	1647
5077	622713	670267	47554
10003	41169	41169	0

Water Temperature

Table 31: Number of data entries by program - Water Temperature

ProgramID	*nOld*	*nNew*	*difference*
2	86204	86204	0
5	1266969	1281063	14094
5	1345937	1360068	14131
5	3345612	3373557	27945
7	25090	25090	0
7	21256	21256	0
7	38796	38796	0
7	1644	1644	0
296	3987025	3987025	0
354	3017764	3050975	33211
355	3304501	3339416	34915
467	262942	265295	2353
468	217594	259581	41987
471	1214944	1254840	39896
473	8305	8305	0
474	1848151	1250045	-598106
505	3870	3870	0
512	1679236	1711243	32007
899	922737	922737	0
986	8692018	8692018	0
989	1824357	1824357	0
4054	2455570	2682810	227240
5005	43791	43791	0
5006	294991	293314	-1677
5061	164583	166235	1652
5062	35473	35473	0
5077	644711	696175	51464

10003	41374	41374	0

Species

Overview

Table 32: Comparison of New vs. Old data exports - (Species)

habitat	*oldFile*	*newFile*	*nDataOld*	*nDataNew*	*difference*
Coral	2024-Mar-28	2024-Jun-06	8467008	6932158	-1534850
CW	2024-Mar-27	2024-Jun-06	23508	25460	1952
Nekton	2024-Mar-27	2024-Jun-06	2981245	3108669	127424
Oyster	2024-Mar-27	2024-Jun-06	574603	576022	1419
SAV	2024-Mar-29	2024-Jun-06	4361842	4387954	26112

Program Differences

Red ProgramIDs are Programs in the Old Exports but not in the New Exports
Green ProgramIDs are Programs in the New Exports but not in the Old Exports

There is a difference in Programs between exports for the following parameters:

Coral

Programs in old export: (n=15)
136, 169, 295, 379, 915, 965, 981, 3021, 3022, 3024, 4018, 4019, 5027, 5040, 5042
Programs in new export: (n=16)
136, 169, 295, 379, 899, 915, 965, 981, 3021, 3022, 3024, 4018, 4019, 5027, 5040, 5042

Differences in Program data between exports

Coral

Table 33: Number of data entries by program - Colony Height

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
136	Colony Height	16258	11782	-4476	NA
169	Colony Height	72657	35634	-37023	NA
981	Colony Height	135707	125938	-9769	NA
3022	Colony Height	36860	30544	-6316	NA
4019	Colony Height	5589	2588	-3001	NA
5040	Colony Height	1342	618	-724	NA

Table 34: Number of data entries by program - Colony Length

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
136	Colony Length	16271	13348	-2923	NA
5040	Colony Length	1342	679	-663	NA

Table 35: Number of data entries by program - Colony Width

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
136	Colony Width	16259	12556	-3703	NA
981	Colony Width	135740	148555	12815	NA
3022	Colony Width	36824	30871	-5953	NA
4019	Colony Width	5589	3087	-2502	NA
5040	Colony Width	1342	713	-629	NA

Table 36: Number of data entries by program - Count

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
136	Count	47791	11897	-35894	NA
3021	Count	384	384	0	NA
3022	Count	1687	1861	174	NA
3024	Count	210163	83670	-126493	NA

Table 37: Number of data entries by program - Percent Live Tissue

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
136	Percent Live Tissue	17388	8504	-8884	NA
5040	Percent Live Tissue	1341	500	-841	NA

Table 38: Number of data entries by program - Presence/Absence

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
136	Presence/Absence	13676	8090	-5586	NA
295	Presence/Absence	95	1877	1782	NA
379	Presence/Absence	4113	4602	489	NA
915	Presence/Absence	5779270	5567058	-212212	NA
965	Presence/Absence	918359	159973	-758386	NA
981	Presence/Absence	135743	38063	-97680	NA
3021	Presence/Absence	384	384	0	NA
3024	Presence/Absence	249403	52744	-196659	NA
4018	Presence/Absence	42923	18413	-24510	NA
4019	Presence/Absence	5589	552	-5037	NA
5027	Presence/Absence	8942	8942	0	NA
5042	Presence/Absence	2394	2453	59	NA

Table 39: Number of data entries by program - Colony Density

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
169	Colony Density	34045	39444	5399	NA
4019	Colony Density	540	568	28	NA
5042	Colony Density	2394	2458	64	NA

Table 40: Number of data entries by program - Colony Diameter

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
169	Colony Diameter	80043	45926	-34117	NA
3022	Colony Diameter	37151	36312	-839	NA

Table 41: Number of data entries by program - Percent Cover

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
169	Percent Cover	145775	163350	17575	NA
295	Percent Cover	183362	211705	28343	NA
3022	Percent Cover	17789	23288	5499	NA
3024	Percent Cover	12100	1323	-10777	NA
4018	Percent Cover	1477	1578	101	NA
5027	Percent Cover	13847	13847	0	NA

CW

Table 42: Number of data entries by program - Percent Cover

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
620	Percent Cover	32	32	0	NA
651	Percent Cover	2567	2567	0	NA
906	Percent Cover	810	810	0	NA
3029	Percent Cover	67	67	0	NA
4017	Percent Cover	13812	15012	1200	NA

5009	Percent Cover	2913	3021	108	NA
5015	Percent Cover	70	70	0	NA

Table 43: Number of data entries by program - Stem Density

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
651	Stem Density	19	19	0	NA
906	Stem Density	71	71	0	NA
3029	Stem Density	151	151	0	NA
4017	Stem Density	1457	2075	618	NA
5009	Stem Density	1175	1201	26	NA
5015	Stem Density	214	214	0	NA

Table 44: Number of data entries by program - Total/Canopy Percent Cover

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
3029	Total/Canopy Percent Cover	150	150	0	NA

Nekton

Table 45: Number of data entries by program - Count

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
69	Count	90457	91411	954	NA
129	Count	82812	82812	0	NA
4043	Count	296540	297244	704	NA

Table 46: Number of data entries by program - Presence/Absence

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
69	Presence/Absence	90457	91411	954	NA
129	Presence/Absence	82659	82659	0	NA
4043	Presence/Absence	295777	296481	704	NA

Table 47: Number of data entries by program - Standard Length

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
69	Standard Length	2042542	2166650	124108	NA

Oyster

Table 48: Number of data entries by program - Shell Height

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
4000	Shell Height	60458	60458	0	0.06
4012	Shell Height	3811	3811	0	0.06
4012	Shell Height	1608	1608	0	0.25
4012	Shell Height	45	45	0	1.00
4014	Shell Height	6813	6813	0	0.25
4016	Shell Height	2790	2790	0	0.06
4020	Shell Height	2500	2500	0	0.06
4044	Shell Height	21724	21724	0	0.25
5007	Shell Height	56840	56840	0	0.25
5017	Shell Height	10276	10276	0	0.06
5035	Shell Height	28895	28895	0	0.06
5063	Shell Height	1060	1060	0	0.10
5070	Shell Height	3527	3527	0	0.25
5071	Shell Height	102	102	0	0.25
5072	Shell Height	1673	1673	0	NA
5073	Shell Height	595	595	0	1.00
5074	Shell Height	150	150	0	0.25
5075	Shell Height	403	403	0	0.06
10002	Shell Height	335854	335854	0	0.25

Table 49: Number of data entries by program - Density

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
972	Density	396	426	30	0.06
4000	Density	785	776	-9	0.06
4012	Density	189	199	10	1.00
4014	Density	161	161	0	0.25
4016	Density	105	105	0	0.06
4020	Density	40	40	0	0.06
4042	Density	52	68	16	0.06
4042	Density	10	10	0	0.33
4042	Density	3	3	0	1.00
4044	Density	2175	2175	0	0.25
5007	Density	1170	1170	0	0.25
5017	Density	327	272	-55	0.06
5063	Density	161	161	0	0.10
5073	Density	27	27	0	0.25
5073	Density	176	176	0	1.00
5074	Density	6	6	0	0.25
5075	Density	12	12	0	0.06

Table 50: Number of data entries by program - Number of Oysters Counted - Total

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
972	Number of Oysters Counted - Total	396	426	30	0.25
4000	Number of Oysters Counted - Total	785	776	-9	0.06
4012	Number of Oysters Counted - Total	91	91	0	0.06
4012	Number of Oysters Counted - Total	20	20	0	0.25

4012	Number of Oysters Counted - Total	5	5	0	1.00
4012	Number of Oysters Counted - Total	10	10	0	NA
4014	Number of Oysters Counted - Total	13	13	0	0.25
4016	Number of Oysters Counted - Total	593	593	0	0.06
4042	Number of Oysters Counted - Total	193	257	64	0.06
4044	Number of Oysters Counted - Total	2175	2175	0	0.25
5007	Number of Oysters Counted - Total	1170	1170	0	0.25
5063	Number of Oysters Counted - Total	161	161	0	0.10
5073	Number of Oysters Counted - Total	11	11	0	0.25
5073	Number of Oysters Counted - Total	74	74	0	1.00
5074	Number of Oysters Counted - Total	12	12	0	0.25
5075	Number of Oysters Counted - Total	12	12	0	0.06

Table 51: Number of data entries by program - Percent Live

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
972	Percent Live	387	417	30	0.25
4000	Percent Live	1628	1582	-46	1.00
4012	Percent Live	87	87	0	0.06
4012	Percent Live	11	11	0	0.25
4014	Percent Live	174	174	0	0.25
4016	Percent Live	593	593	0	1.00
4020	Percent Live	40	40	0	1.00
4042	Percent Live	49	65	16	1.00
4044	Percent Live	1367	1367	0	0.25
5007	Percent Live	1066	1066	0	0.25
5010	Percent Live	237	282	45	1.00
5017	Percent Live	358	273	-85	1.00
5035	Percent Live	8	8	0	0.06
5074	Percent Live	12	11	-1	0.25
5075	Percent Live	12	12	0	1.00

Table 52: Number of data entries by program - Reef Height

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
4000	Reef Height	1254	1254	0	NA
4012	Reef Height	185	185	0	NA
5075	Reef Height	18	16	-2	NA

Table 53: Number of data entries by program - Number of Oysters Counted - Dead

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
972	Number of Oysters Counted - Dead	396	426	30	0.25
4012	Number of Oysters Counted - Dead	91	91	0	0.06
4012	Number of Oysters Counted - Dead	20	20	0	0.25
4012	Number of Oysters Counted - Dead	5	5	0	1.00
4012	Number of Oysters Counted - Dead	10	10	0	NA
4014	Number of Oysters Counted - Dead	13	13	0	0.25

4016	Number of Oysters Counted - Dead	593	593	0	0.06
4042	Number of Oysters Counted - Dead	193	257	64	0.06
4044	Number of Oysters Counted - Dead	2175	2175	0	0.25
5007	Number of Oysters Counted - Dead	1170	1170	0	0.25
5063	Number of Oysters Counted - Dead	161	161	0	0.10
5073	Number of Oysters Counted - Dead	25	25	0	0.25
5073	Number of Oysters Counted - Dead	148	148	0	1.00
5074	Number of Oysters Counted - Dead	6	6	0	0.25
5075	Number of Oysters Counted - Dead	12	12	0	0.06

Table 54: Number of data entries by program - Number of Oysters Counted - Live

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
972	Number of Oysters Counted - Live	396	426	30	0.25
4012	Number of Oysters Counted - Live	522	522	0	0.06
4012	Number of Oysters Counted - Live	30	30	0	0.25
4012	Number of Oysters Counted - Live	25	25	0	1.00
4012	Number of Oysters Counted - Live	10	10	0	NA
4014	Number of Oysters Counted - Live	14	14	0	0.25
4016	Number of Oysters Counted - Live	593	593	0	0.06
4042	Number of Oysters Counted - Live	193	257	64	0.06
4044	Number of Oysters Counted - Live	2175	2175	0	0.25
5007	Number of Oysters Counted - Live	1170	1170	0	0.25
5017	Number of Oysters Counted - Live	327	272	-55	0.06
5063	Number of Oysters Counted - Live	161	161	0	0.10
5073	Number of Oysters Counted - Live	27	27	0	0.25
5073	Number of Oysters Counted - Live	176	176	0	1.00
5074	Number of Oysters Counted - Live	6	6	0	0.25
5075	Number of Oysters Counted - Live	12	12	0	0.06

SAV

Table 55: Number of data entries by program - Percent Occurrence

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
3013	Percent Occurrence	542419	542419	0	NA
3015	Percent Occurrence	3724	3724	0	NA
3017	Percent Occurrence	72839	77463	4624	NA
10001	Percent Occurrence	9672	9672	0	NA

Table 56: Number of data entries by program - Presence/Absence

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
296	Presence/Absence	10964	10964	0	NA
556	Presence/Absence	1652	1652	0	NA
557	Presence/Absence	2485	3168	683	NA
558	Presence/Absence	4485	4485	0	NA
559	Presence/Absence	665	668	3	NA

560	Presence/Absence	33140	33140	0	NA
564	Presence/Absence	10065	10056	-9	NA
565	Presence/Absence	27180	28310	1130	NA
568	Presence/Absence	1768	1768	0	NA
570	Presence/Absence	19398	20295	897	NA
571	Presence/Absence	4495	4745	250	NA
572	Presence/Absence	1442	1442	0	NA
965	Presence/Absence	747950	747950	0	NA
978	Presence/Absence	60	60	0	NA
997	Presence/Absence	514	514	0	NA
3013	Presence/Absence	602335	602335	0	NA
3015	Presence/Absence	3724	3724	0	NA
3016	Presence/Absence	574	574	0	NA
3017	Presence/Absence	72838	77460	4622	NA
4018	Presence/Absence	49202	54651	5449	NA
4049	Presence/Absence	301972	301972	0	NA
4065	Presence/Absence	4923	4923	0	NA
5027	Presence/Absence	37434	37434	0	NA
10001	Presence/Absence	9672	9672	0	NA

Table 57: Number of data entries by program - Braun Blanquet Score

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
296	Braun Blanquet Score	10972	10972	0	NA
557	Braun Blanquet Score	2493	3183	690	NA
565	Braun Blanquet Score	27205	28335	1130	NA
570	Braun Blanquet Score	19374	20300	926	NA
571	Braun Blanquet Score	4492	4745	253	NA
965	Braun Blanquet Score	756816	756816	0	NA
997	Braun Blanquet Score	496	496	0	NA
3016	Braun Blanquet Score	574	574	0	NA
4018	Braun Blanquet Score	41551	47012	5461	NA
4049	Braun Blanquet Score	302823	302823	0	NA
4065	Braun Blanquet Score	5139	5139	0	NA
5027	Braun Blanquet Score	37707	37707	0	NA

Table 58: Number of data entries by program - Percent Cover

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
556	Percent Cover	1652	1652	0	NA
558	Percent Cover	4485	4485	0	NA
560	Percent Cover	9750	9750	0	NA
564	Percent Cover	10118	10118	0	NA
568	Percent Cover	1768	1768	0	NA
572	Percent Cover	1442	1442	0	NA
997	Percent Cover	516	516	0	NA
3013	Percent Cover	463145	463145	0	NA
4018	Percent Cover	1477	1477	0	NA
5027	Percent Cover	35275	35275	0	NA

Table 59: Number of data entries by program - Modified Braun Blanquet Score

ProgramID	*ParameterName*	*nOld*	*nNew*	*difference*	*QuadSize m2*
559	Modified Braun Blanquet Score	665	668	3	NA
560	Modified Braun Blanquet Score	44201	44201	0	NA
978	Modified Braun Blanquet Score	115	115	0	NA

QAQC Flag Check

Discrete WQ

Quantile Check

ParameterName	n high	n high flagged	n low	n low flagged
Dissolved Oxygen	675	675	783	783
Dissolved Oxygen Saturation	129	129	131	131
Light Extinction Coefficient	16	16	13	13
Nitrogen, organic	7	7	6	6
pH	576	576	0	0
Salinity	725	725	0	0
Secchi Depth	271	271	0	0
Specific Conductivity	378	378	0	0
Total Nitrogen	128	128	17	17
Total Phosphorus	141	141	104	104
Turbidity	292	292	69	69
Water Temperature	892	892	0	0

Threshold Check

ParameterName	n high	n high flagged	n low	n low flagged	n included
Dissolved Oxygen	207	207	8	8	0
Dissolved Oxygen Saturation	11	11	7	7	0
pH	73	73	2203	2203	0
Salinity	60	60	2	2	0
Secchi Depth	7	7	584	584	0
Specific Conductivity	25	25	29961	29961	0
Water Temperature	9	9	2968	2968	0

Entries where ResultValue is above or below quantile, but expected SEACAR_QAQCFlagCode is not being applied

Continuous WQ

Quantile Check

ParameterName	n high	n high flagged	n low	n low flagged
Dissolved Oxygen	455	455	1003	1003
Dissolved Oxygen Saturation	4638	4638	1430	1430
Turbidity	5	5	0	0
Water Temperature	0	0	212	212

Threshold Check

No threshold values detected

Species

Quantile Check

ParameterName	habitat	n high	n high flagged	n low	n low flagged
Colony Height	Coral	377	377	0	0
Colony Diameter	Coral	135	135	0	0
Percent Cover	Coral	10074	10074	0	0
Colony Density	Coral	38	38	0	0
Colony Width	Coral	264	264	133	133
Colony Length	Coral	17	17	0	0
Stem Density	CW	9	9	0	0
Standard Length	Nekton	2145	2145	1495	1495
Count	Nekton	704	704	0	0
Number of Oysters Counted - Total	Oyster	7	7	0	0
Reef Height	Oyster	3	3	0	0
Shell Height	Oyster	575	575	332	332
Density	Oyster	6	6	0	0
Number of Oysters Counted - Dead	Oyster	6	6	0	0
Number of Oysters Counted - Live	Oyster	5	5	0	0
Percent Cover	SAV	44	44	0	0
Braun Blanquet Score	SAV	0	0	1	1
Modified Braun Blanquet Score	SAV	1	1	5178	5178
Percent Occurrence	SAV	2	2	0	0

Threshold Check

ParameterName	habitat	n high	n high flagged	n low	n low flagged
Colony Height	Coral	0	0	3344	3344
Colony Diameter	Coral	0	0	318	318
Percent Live Tissue	Coral	0	0	1	1
Standard Length	Nekton	0	0	1	1
Reef Height	Oyster	0	0	4	4

Expected Values Check (15Q)

Submerged Aquatic Vegetation

Table 60: Overview of 15Q - Expected Values Check

ParameterName	*ProgramID*	*N Data Flagged*	*N Unexpected Values*	*Expected Values*
Braun Blanquet Score	296	6221	6221	0,0.1,0.5,1,2,3,4,5
Braun Blanquet Score	965	2081	2081	0,0.1,0.5,1,2,3,4,5
Braun Blanquet Score	4018	743	743	0,0.1,0.5,1,2,3,4,5
Braun Blanquet Score	5027	4	4	0,0.1,0.5,1,2,3,4,5
Modified Braun Blanquet Score	559	347	347	0,0.1,0.5,1,2,3,4,5