

## 2021-006 Chlorophyll duplicates - page 1

Variability is assessed as the % CV (std dev/mean\*100).

When CV % is greater than 10 %, quality flag is 3 with an associated comment.

When CV % is greater than 30 %, quality flag is 4 with an associated comment.

Phaeo-Pigment:Extracted: Bottle data are provided for information only and no quality flags are assigned to them.

### Duplicate samples from a single Niskin bottle or from the loop system

Event Number	Sample Number	Station	Pressure dbar	Chlorophyll:Extracted: Bottle			Phaeo-Pigment:Extracted: Bottle		
				Chl 1 mg/m <sup>3</sup>	Chl 2 mg/m <sup>3</sup>	CV %	Phaeo 1 mg/m <sup>3</sup>	Phaeo 2 mg/m <sup>3</sup>	CV %
3	1	Haro59	2.9	1.848	1.902	2.038	0.51	0.47	5.17
5	5005	JF1		0.872	0.863	0.740	0.72	0.71	1.35
6	3	JF2	2.5	0.978	0.913	4.835	0.36	0.33	5.12
8	5008	JF3		13.913	13.203	3.705	2.34	1.91	14.64
9	5009	JF4		32.797	34.298	3.163	3.76	3.79	0.62
19	50	P4	20.7	1.163	1.199	2.142	0.59	0.51	10.40
19	55	P4	3.3	1.059	1.060	0.040	0.44	0.39	8.26
24	85	P5	5.1	0.251	0.242	2.585	0.10	0.09	1.42
24	5024	Loop P5		0.217	0.235	5.674	0.29	0.22	19.18
30	110	P8	21.0	0.257	0.276	5.066	0.15	0.17	9.22
30	112	P8	11.0	0.412	0.423	1.916	0.19	0.16	14.16
31	114	P9	5.6	0.478	0.500	3.279	0.16	0.12	17.48
31	5031	Loop P9		0.471	0.446	3.754	0.19	0.21	6.35
33	5033	Loop 33		0.220	0.227	2.299	0.20	0.14	26.85
41	167	P12	75.3	0.270	0.342	16.716	0.14	0.18	16.01
41	175	P12	10.1	0.280	0.286	1.681	0.12	0.09	16.36
43	179	P13	5.8	0.227	0.230	1.000	0.03	0.03	6.48
43	5043	Loop P13		0.202	0.204	0.726	0.10	0.13	22.23
44	5044	Loop 44		0.261	0.259	0.603	0.12	0.09	22.24
46	201	P15	5.5	0.203	0.195	3.058	0.04	0.04	2.64
46	5046	Loop P15		0.172	0.176	1.667	0.07	0.08	2.51
47	5047	Loop 47		0.199	0.188	3.949	0.17	0.22	16.90
54	256	P16	19.5	0.255	0.252	0.695	0.05	0.06	22.91
54	261	P16	3.0	0.239	0.237	0.480	0.04	0.05	20.23
55	264	P17	6.1	0.386	0.376	1.910	0.09	0.07	12.47
55	5055	Loop P17		0.314	0.328	2.948	0.16	0.26	33.44
57	285	P19	5.5	0.356	0.337	3.817	0.09	0.09	0.01
60	310	P20	25.2	0.310	0.305	1.176	0.10	0.06	33.12
60	313	P20	10.4	0.274	0.271	0.839	0.06	0.06	0.09
65	5065	Loop 65		0.242	0.243	0.432	0.08	0.08	1.09
66	347	P21	5.6	0.266	0.275	2.198	0.06	0.05	13.05
66	5066	Loop P21		0.224	0.221	1.005	0.07	0.14	42.30
68	5068	Loop 68		0.226	0.218	2.467	0.05	0.04	17.66
69	375	P23	5.7	0.303	0.309	1.539	0.06	0.04	27.65
72	396	P25	6.4	0.329	0.345	3.274	0.05	0.04	9.95

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				Chl 1 mg/m <sup>3</sup>	Chl 2 mg/m <sup>3</sup>	CV %	Phaeo 1 mg/m <sup>3</sup>	Phaeo 2 mg/m <sup>3</sup>	CV %
72	5072	Loop P25		0.265	0.264	0.450	0.12	0.07	36.49
73	5073	Loop 73		0.279	0.282	0.899	0.11	0.07	33.74
79	459	P26	19.9	0.215	0.223	2.409	0.03	0.03	14.95
79	464	P26	3.0	0.209	0.208	0.480	0.02	0.02	16.07
85	5085	Loop 85		0.288	0.281	1.755	0.05	0.10	46.85
86	5086	Loop 86		0.506	0.482	3.380	0.11	0.10	2.41
87	5087	Loop 87		0.254	0.243	3.117	0.07	0.08	9.26
88	5088	Loop 88		0.914	0.914	0.021	0.39	0.38	0.30
94	488	DIX2	10.2	7.362	7.929	5.236	0.51	0.07	106.57
95	506	DIX1	3.0	8.591	9.345	5.946	1.23	0.77	32.11
96	522	CH03	20.2	0.247	0.240	2.227	0.14	0.10	26.93
97	541	CH02	5.0	0.573	0.555	2.328	0.14	0.16	6.78
98	552	Port3	19.9	0.166	0.163	1.129	0.23	0.22	1.42
100	572	Port1	10.1	0.580	0.652	8.266	0.18	0.21	9.70
101	592	CH01	5.0	0.646	0.632	1.549	0.22	0.21	3.47
104	616	CH05	5.1	0.754	0.762	0.747	0.09	0.15	30.47
107	644	CHAT3	19.8	0.157	0.144	5.723	0.11	0.13	13.18
108	659	CH08	5.2	0.596	0.558	4.640	0.08	0.08	3.86
110	681	CH11	5.1	0.382	0.339	8.516	0.09	0.07	22.68
113	710	CH12	9.9	0.220	0.230	3.234	0.05	0.05	2.99
115	733	CH16	5.2	0.584	0.550	4.280	0.09	0.10	5.42
119	770	HECS8	4.8	0.449	0.448	0.085	0.09	0.10	5.44
120	784	HECS7	2.5	3.553	3.471	1.644	0.35	0.31	9.09
121	798	CHAT2	5.1	1.023	1.015	0.570	0.11	0.13	9.57
123	818	CH21	20.2	0.157	0.155	0.731	0.09	0.09	1.03
127	832	CH19	2.7	1.046	1.027	1.312	0.15	0.09	39.25
129	845	PRHR74	19.9	0.131	0.125	3.562	0.17	0.16	4.23
131	871	CHAT1	20.2	0.067	0.066	1.785	0.09	0.10	4.24
134	904	CH25	20.1	0.214	0.219	1.734	0.10	0.09	9.31
135	916	CH26	5.3	0.618	0.604	1.611	0.12	0.12	3.15
136	923	CH27	4.8	0.487	0.443	6.606	0.15	0.15	2.66
137	936	CH28	10.0	0.422	0.401	3.571	0.18	0.14	16.95
142	5142	Loop 142		1.055	0.993	4.265	0.14	0.12	8.72
143	5143	Loop 143		4.460	4.505	0.721	1.00	0.93	4.97
144	5144	Loop 144		3.549	3.519	0.614	0.58	0.44	19.36