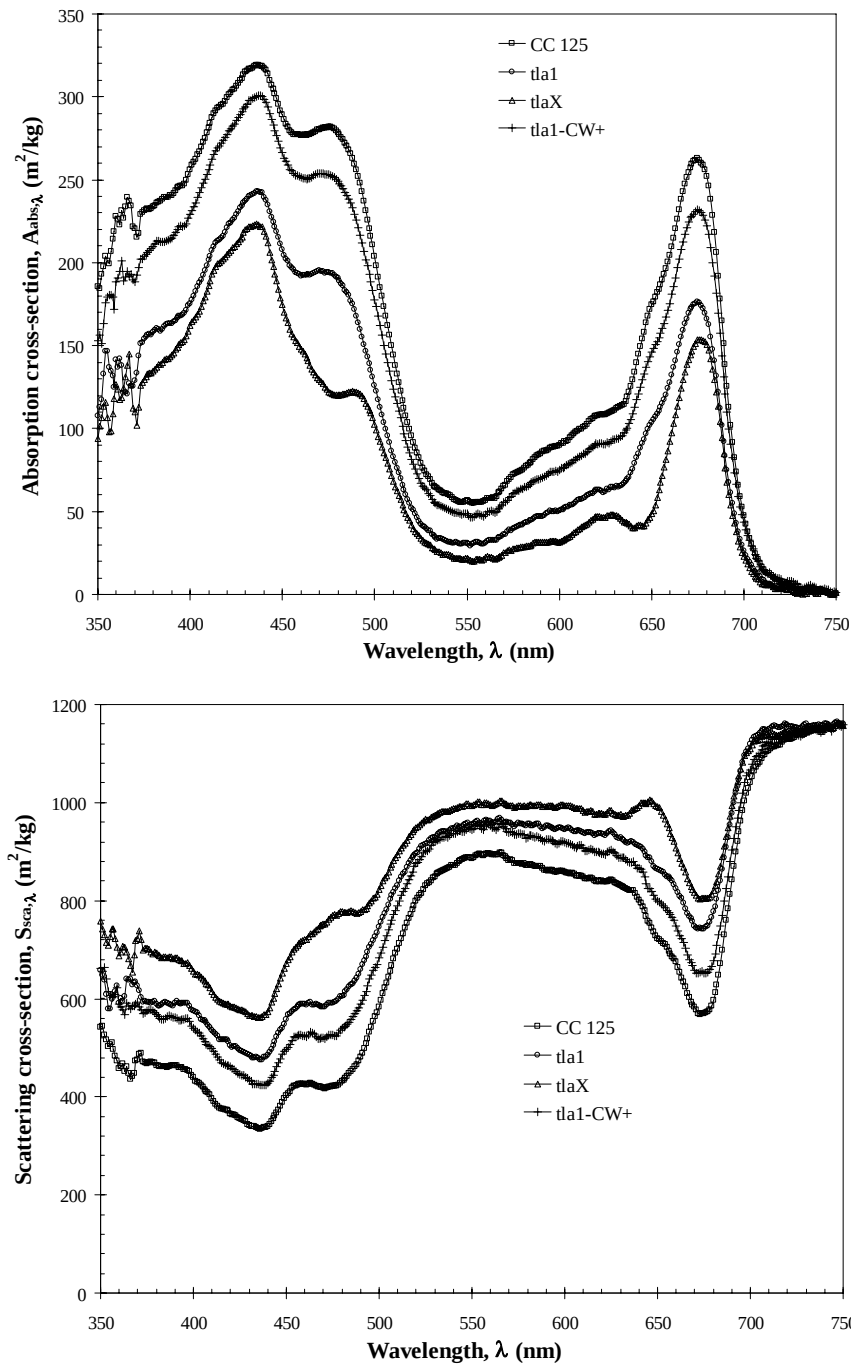
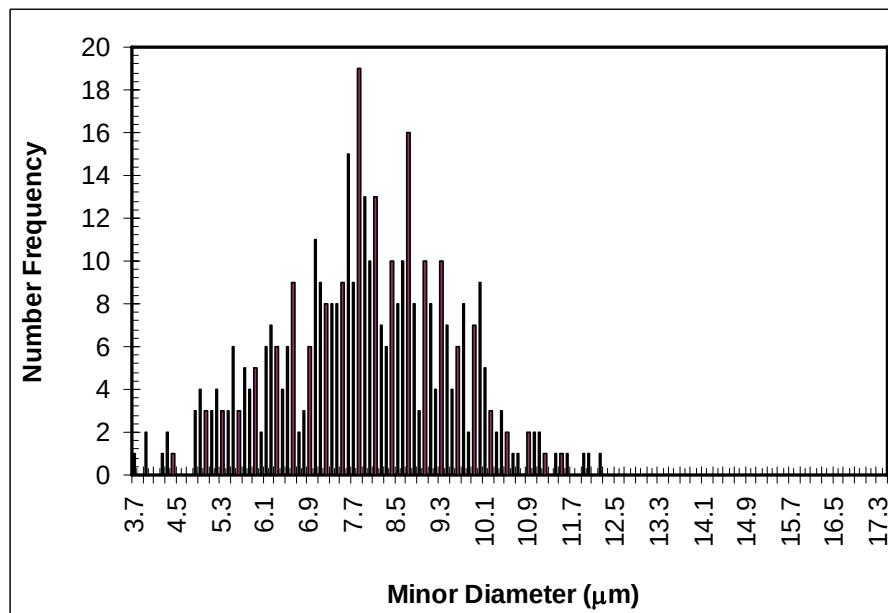
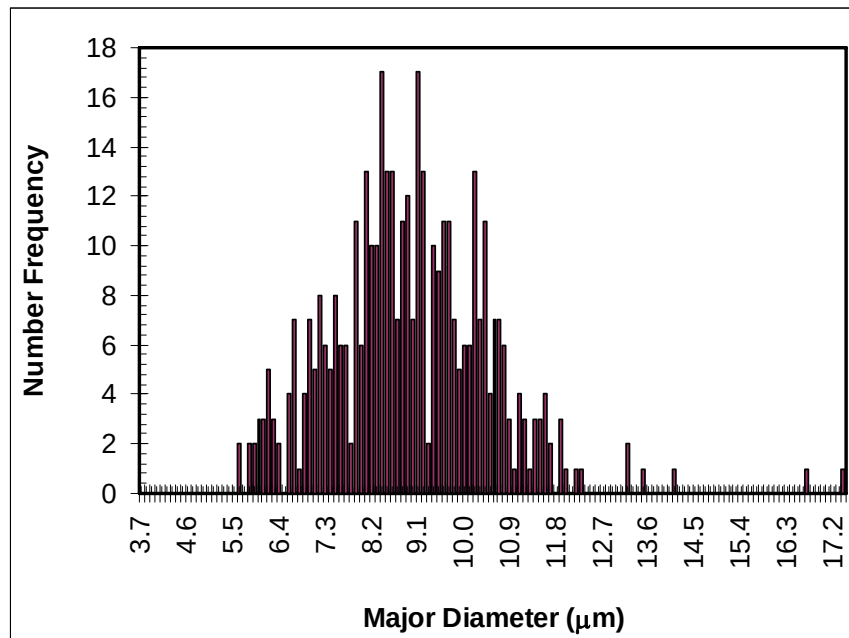


Absorption and scattering coefficients of *Chlamydomonas reinhardtii* and its mutants

Source: H. Berberoglu, L. Pilon and A. Melis, *Radiation Characteristics of *Chlamydomonas reinhardtii* CC125 and its truncated chlorophyll antenna transformants *tla1*, *tlaX* and *tla1-CW⁺**, International Journal of Hydrogen Energy, vol. 33, pp. 6467-6483, 2008.

<http://dx.doi.org/10.1016/j.ijhydene.2008.07.071>



Absorption and scattering coefficients of *Chlamydomonas reinhardtii* CC125

Summary for CC125				
	Major Diameter (μm)	Minor Diameter (μm)	Circularity	Feret (μm)
Average	8.9	7.8	0.86	9.2
Stdev	1.6	1.6	0.06	1.6

Chlorophyll Concentrations			
Stats	Chl a (g/kg)	Chl b (g/kg)	Chl tot (g/kg)
Average	29.80 $\pm$ 2.03	14.53 $\pm$ 1.11	44.33 $\pm$ 3.14

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
350	185.40	542.32	727.72	0.75
351	184.53	544.91	729.43	0.75
352	193.24	525.83	719.07	0.73
353	197.61	516.22	713.82	0.72
354	203.95	502.38	706.33	0.71
355	201.07	506.88	707.95	0.72
356	199.55	509.97	709.52	0.72
357	206.70	497.40	704.11	0.71
358	214.43	482.79	697.22	0.69
359	218.87	473.73	692.60	0.68
360	227.73	457.47	685.20	0.67
361	226.38	460.95	687.33	0.67
362	222.80	468.21	691.02	0.68
363	231.21	452.39	683.60	0.66
364	226.70	461.79	688.49	0.67
365	233.75	447.79	681.54	0.66
366	239.67	435.76	675.43	0.65
367	237.03	441.30	678.33	0.65
368	234.44	447.28	681.73	0.66
369	221.58	472.99	694.57	0.68
370	220.45	476.12	696.57	0.68
371	215.22	487.59	702.82	0.69
372	217.54	488.56	706.09	0.69
373	228.86	470.95	699.80	0.67
374	230.12	468.84	698.96	0.67
375	231.28	468.13	699.41	0.67
376	231.98	470.30	702.28	0.67
377	232.68	470.55	703.23	0.67
378	232.26	470.36	702.62	0.67
379	232.30	469.51	701.81	0.67

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
380	233.73	463.95	697.68	0.66
381	234.28	462.95	697.24	0.66
382	235.85	462.39	698.25	0.66
383	236.80	461.48	698.28	0.66
384	236.90	461.86	698.77	0.66
385	238.35	460.70	699.05	0.66
386	239.55	460.55	700.09	0.66
387	239.57	462.42	701.99	0.66
388	239.71	463.05	702.75	0.66
389	240.33	462.64	702.97	0.66
390	240.82	463.42	704.23	0.66
391	241.77	463.17	704.94	0.66
392	243.66	458.77	702.43	0.65
393	244.93	459.06	703.99	0.65
394	245.92	459.45	705.38	0.65
395	246.36	455.55	701.91	0.65
396	246.39	455.13	701.52	0.65
397	247.68	454.65	702.33	0.65
398	249.75	451.00	700.75	0.64
399	253.17	444.50	697.67	0.64
400	256.17	438.97	695.14	0.63
401	258.65	432.70	691.35	0.63
402	260.46	430.41	690.86	0.62
403	262.32	428.57	690.89	0.62
404	265.07	423.57	688.64	0.62
405	266.80	420.49	687.29	0.61
406	269.70	415.27	684.97	0.61
407	272.77	410.38	683.15	0.60
408	274.97	408.70	683.67	0.60
409	278.11	404.44	682.55	0.59

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
410	281.42	396.86	678.28	0.59
411	284.19	390.34	674.54	0.58
412	287.44	384.63	672.06	0.57
413	289.73	380.18	669.91	0.57
414	291.68	376.81	668.48	0.56
415	293.11	374.67	667.77	0.56
416	293.58	374.88	668.46	0.56
417	294.81	372.61	667.42	0.56
418	295.78	372.46	668.23	0.56
419	297.46	370.68	668.14	0.55
420	299.73	365.64	665.37	0.55
421	301.12	362.36	663.49	0.55
422	302.25	362.66	664.92	0.55
423	303.89	360.43	664.32	0.54
424	304.85	357.47	662.33	0.54
425	306.70	355.25	661.95	0.54
426	308.47	352.85	661.32	0.53
427	309.68	350.97	660.66	0.53
428	311.03	349.00	660.03	0.53
429	313.51	344.55	658.06	0.52
430	315.00	341.52	656.51	0.52
431	315.89	340.33	656.22	0.52
432	317.05	339.77	656.83	0.52
433	316.72	339.89	656.61	0.52
434	317.56	337.27	654.82	0.52
435	318.49	335.60	654.09	0.51
436	319.33	334.33	653.66	0.51
437	319.10	336.17	655.27	0.51
438	318.47	337.78	656.26	0.51
439	318.54	337.44	655.98	0.51

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo	λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo	λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
440	317.22	339.89	657.11	0.52	470	280.37	419.18	699.55	0.60	500	204.14	584.17	788.31	0.74
441	316.03	343.58	659.62	0.52	471	280.96	416.73	697.69	0.60	501	198.18	596.97	795.15	0.75
442	313.76	349.83	663.59	0.53	472	281.25	417.45	698.71	0.60	502	191.51	610.09	801.60	0.76
443	310.16	356.12	666.28	0.53	473	281.20	419.54	700.74	0.60	503	185.30	623.39	808.70	0.77
444	307.18	361.53	668.71	0.54	474	281.54	420.44	701.97	0.60	504	179.70	632.90	812.60	0.78
445	304.52	368.07	672.59	0.55	475	281.65	422.38	704.03	0.60	505	173.56	644.20	817.76	0.79
446	301.73	373.79	675.52	0.55	476	281.63	421.67	703.30	0.60	506	167.81	656.93	824.74	0.80
447	299.05	380.80	679.85	0.56	477	281.37	421.36	702.73	0.60	507	162.35	666.96	829.31	0.80
448	295.51	389.52	685.03	0.57	478	280.74	424.44	705.18	0.60	508	156.20	680.56	836.76	0.81
449	291.82	396.11	687.93	0.58	479	279.62	429.09	708.71	0.61	509	149.86	692.61	842.47	0.82
450	289.01	402.09	691.10	0.58	480	278.41	432.43	710.84	0.61	510	144.12	700.84	844.97	0.83
451	286.20	406.11	692.31	0.59	481	277.15	434.50	711.66	0.61	511	138.21	712.19	850.39	0.84
452	283.82	411.13	694.95	0.59	482	275.73	437.81	713.54	0.61	512	132.79	722.88	855.68	0.84
453	281.74	418.70	700.44	0.60	483	274.30	442.29	716.59	0.62	513	127.68	733.17	860.85	0.85
454	279.53	422.82	702.35	0.60	484	272.36	447.27	719.63	0.62	514	122.56	743.59	866.15	0.86
455	278.22	423.06	701.28	0.60	485	270.52	451.67	722.20	0.63	515	117.08	754.78	871.85	0.87
456	277.47	424.20	701.67	0.60	486	268.24	456.36	724.60	0.63	516	112.39	764.22	876.61	0.87
457	277.16	425.30	702.47	0.61	487	265.66	460.69	726.35	0.63	517	107.78	772.71	880.49	0.88
458	277.11	426.01	703.12	0.61	488	262.93	466.32	729.25	0.64	518	103.61	780.98	884.59	0.88
459	277.05	426.72	703.76	0.61	489	259.52	473.64	733.16	0.65	519	99.77	790.11	889.88	0.89
460	276.53	426.17	702.70	0.61	490	255.91	481.44	737.35	0.65	520	95.47	798.40	893.87	0.89
461	276.84	423.86	700.70	0.60	491	252.08	488.83	740.91	0.66	521	91.58	804.60	896.18	0.90
462	277.01	425.26	702.27	0.61	492	247.88	498.37	746.25	0.67	522	88.15	810.28	898.43	0.90
463	276.68	427.71	704.39	0.61	493	242.92	508.36	751.29	0.68	523	85.09	814.89	899.97	0.91
464	277.45	425.25	702.70	0.61	494	237.37	518.80	756.16	0.69	524	82.35	822.26	904.61	0.91
465	277.44	424.59	702.04	0.60	495	231.23	532.07	763.30	0.70	525	79.11	830.76	909.86	0.91
466	277.55	422.78	700.33	0.60	496	225.98	542.98	768.97	0.71	526	76.46	834.42	910.88	0.92
467	278.61	420.16	698.77	0.60	497	220.71	553.38	774.09	0.71	527	74.42	836.81	911.23	0.92
468	279.24	419.99	699.22	0.60	498	215.88	563.04	778.92	0.72	528	72.40	841.56	913.96	0.92
469	279.84	419.95	699.79	0.60	499	210.54	572.00	782.54	0.73	529	70.83	845.95	916.78	0.92

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
530	69.37	849.00	918.36	0.92
531	67.00	854.77	921.77	0.93
532	65.58	857.26	922.84	0.93
533	64.75	858.68	923.43	0.93
534	63.88	860.43	924.31	0.93
535	63.29	861.89	925.18	0.93
536	62.51	864.76	927.26	0.93
537	61.22	866.22	927.44	0.93
538	60.83	868.14	928.97	0.93
539	60.68	871.05	931.73	0.93
540	60.20	872.37	932.57	0.94
541	59.66	872.85	932.50	0.94
542	58.53	876.26	934.80	0.94
543	57.45	879.43	936.88	0.94
544	56.74	881.26	938.00	0.94
545	56.41	883.31	939.71	0.94
546	55.74	886.11	941.85	0.94
547	55.35	887.55	942.91	0.94
548	55.56	888.46	944.02	0.94
549	55.97	887.60	943.57	0.94
550	56.54	886.36	942.90	0.94
551	56.04	887.74	943.78	0.94
552	55.30	890.81	946.10	0.94
553	54.77	894.14	948.91	0.94
554	54.79	894.84	949.62	0.94
555	55.30	892.95	948.25	0.94
556	55.54	891.88	947.43	0.94
557	55.45	893.95	949.41	0.94
558	55.32	895.01	950.33	0.94
559	55.87	894.81	950.68	0.94

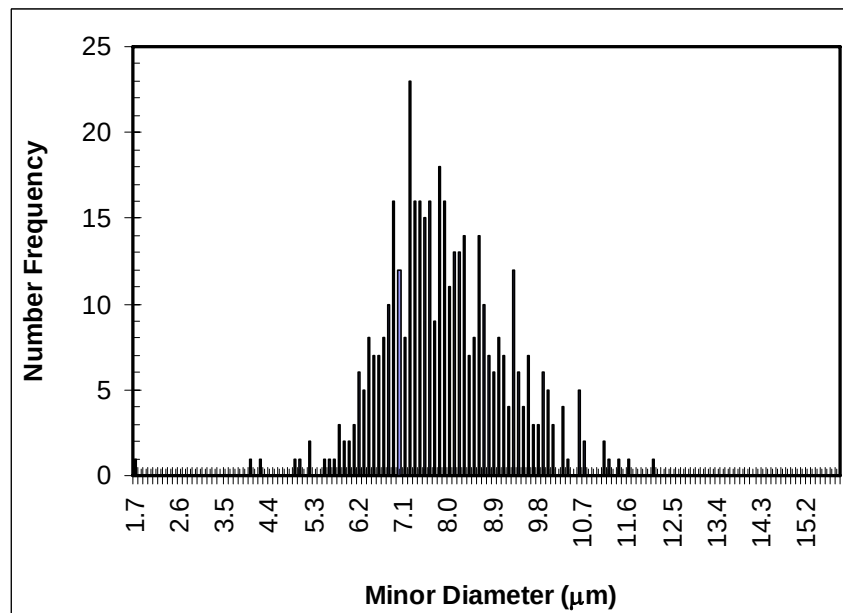
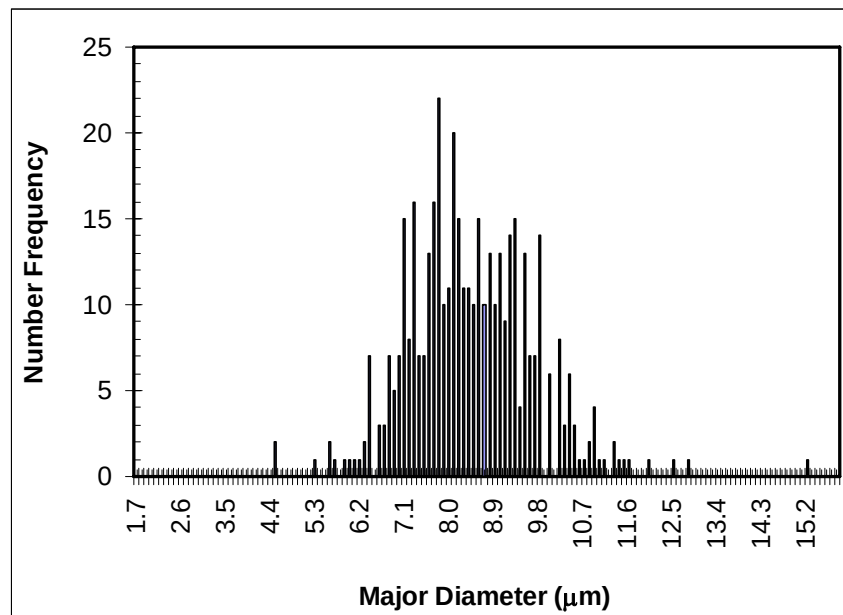
λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
560	56.64	894.92	951.56	0.94
561	58.00	893.08	951.08	0.94
562	57.86	893.99	951.85	0.94
563	58.02	893.04	951.06	0.94
564	58.23	894.11	952.34	0.94
565	58.13	897.38	955.51	0.94
566	59.28	896.62	955.89	0.94
567	61.16	892.23	953.39	0.94
568	61.77	889.51	951.28	0.94
569	63.32	885.36	948.68	0.93
570	65.33	882.54	947.88	0.93
571	65.97	884.52	950.48	0.93
572	68.04	881.25	949.30	0.93
573	69.50	875.63	945.13	0.93
574	70.22	875.47	945.69	0.93
575	71.97	875.83	947.81	0.92
576	72.66	875.09	947.75	0.92
577	73.58	874.36	947.94	0.92
578	73.83	875.05	948.88	0.92
579	74.38	872.02	946.40	0.92
580	75.27	871.89	947.16	0.92
581	76.45	874.24	950.70	0.92
582	77.41	874.89	952.31	0.92
583	77.90	872.52	950.43	0.92
584	78.87	870.21	949.07	0.92
585	79.77	870.73	950.51	0.92
586	81.30	870.44	951.74	0.91
587	82.58	869.32	951.89	0.91
588	83.41	865.54	948.95	0.91
589	84.29	862.24	946.52	0.91

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
590	84.81	861.79	946.60	0.91
591	85.72	861.02	946.74	0.91
592	86.39	862.51	948.90	0.91
593	86.61	862.72	949.32	0.91
594	87.35	859.89	947.24	0.91
595	88.19	857.81	946.00	0.91
596	88.69	857.50	946.19	0.91
597	88.89	859.42	948.31	0.91
598	89.26	861.07	950.33	0.91
599	89.11	860.69	949.79	0.91
600	89.95	857.61	947.56	0.91
601	91.29	855.76	947.04	0.90
602	91.36	856.69	948.04	0.90
603	92.28	855.24	947.52	0.90
604	92.35	855.69	948.04	0.90
605	92.82	854.74	947.56	0.90
606	94.50	850.97	945.47	0.90
607	95.49	850.13	945.63	0.90
608	97.01	850.13	947.14	0.90
609	97.80	850.44	948.24	0.90
610	98.61	847.94	946.55	0.90
611	99.39	844.71	944.10	0.89
612	99.84	845.03	944.87	0.89
613	100.88	844.66	945.54	0.89
614	101.61	845.64	947.25	0.89
615	102.48	845.36	947.84	0.89
616	104.04	840.15	944.19	0.89
617	105.33	838.83	944.16	0.89
618	106.22	840.43	946.65	0.89
619	107.28	839.30	946.58	0.89

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo	λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo	λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
620	107.96	839.97	947.93	0.89	650	174.67	723.21	897.88	0.81	680	251.92	597.87	849.79	0.70
621	107.87	839.59	947.45	0.89	651	176.71	721.28	897.99	0.80	681	246.25	612.68	858.93	0.71
622	108.39	837.76	946.15	0.89	652	179.25	716.99	896.24	0.80	682	238.34	628.26	866.61	0.72
623	108.43	839.20	947.63	0.89	653	182.01	712.38	894.40	0.80	683	228.63	647.81	876.44	0.74
624	108.14	841.31	949.45	0.89	654	184.13	710.45	894.59	0.79	684	218.21	670.94	889.15	0.75
625	108.37	842.46	950.83	0.89	655	186.85	704.28	891.13	0.79	685	206.00	698.40	904.40	0.77
626	109.01	840.59	949.61	0.89	656	189.84	697.39	887.23	0.79	686	192.17	730.69	922.86	0.79
627	109.24	837.45	946.69	0.88	657	192.90	690.45	883.35	0.78	687	178.12	759.39	937.52	0.81
628	110.02	834.41	944.43	0.88	658	196.36	685.50	881.86	0.78	688	164.81	783.48	948.29	0.83
629	110.55	833.03	943.57	0.88	659	200.54	681.62	882.15	0.77	689	151.32	812.92	964.24	0.84
630	111.25	831.05	942.30	0.88	660	204.52	674.86	879.38	0.77	690	138.51	841.76	980.27	0.86
631	112.23	828.49	940.72	0.88	661	209.61	664.45	874.06	0.76	691	125.67	870.69	996.35	0.87
632	112.70	827.35	940.04	0.88	662	214.95	653.07	868.03	0.75	692	112.99	899.27	1012.27	0.89
633	113.41	824.94	938.35	0.88	663	220.49	642.88	863.37	0.74	693	101.90	920.72	1022.61	0.90
634	113.71	822.99	936.71	0.88	664	226.37	634.63	861.00	0.74	694	91.78	940.85	1032.63	0.91
635	114.71	821.36	936.07	0.88	665	232.10	624.69	856.79	0.73	695	82.52	962.04	1044.56	0.92
636	116.49	821.74	938.23	0.88	666	238.34	611.36	849.70	0.72	696	73.81	983.17	1056.99	0.93
637	118.89	821.11	939.99	0.87	667	243.17	602.05	845.21	0.71	697	65.73	1003.77	1069.51	0.94
638	122.03	815.30	937.33	0.87	668	247.66	594.02	841.68	0.71	698	58.77	1019.03	1077.81	0.95
639	125.30	807.62	932.92	0.87	669	251.61	587.77	839.38	0.70	699	52.78	1029.78	1082.56	0.95
640	129.29	800.93	930.21	0.86	670	254.61	583.08	837.69	0.70	700	47.32	1040.81	1088.13	0.96
641	134.15	794.81	928.96	0.86	671	257.00	576.65	833.65	0.69	701	42.17	1053.62	1095.79	0.96
642	139.85	786.61	926.46	0.85	672	259.31	569.23	828.55	0.69	702	37.70	1064.71	1102.41	0.97
643	144.74	779.29	924.03	0.84	673	261.04	568.19	829.23	0.69	703	33.86	1072.35	1106.21	0.97
644	149.57	768.24	917.81	0.84	674	261.81	569.09	830.90	0.68	704	30.17	1078.14	1108.30	0.97
645	154.12	758.81	912.92	0.83	675	262.75	569.12	831.87	0.68	705	27.64	1082.46	1110.11	0.98
646	158.12	754.44	912.55	0.83	676	261.71	572.27	833.98	0.69	706	24.83	1089.57	1114.40	0.98
647	163.61	744.68	908.29	0.82	677	260.25	573.82	834.07	0.69	707	22.44	1095.47	1117.90	0.98
648	168.11	736.06	904.17	0.81	678	258.72	577.72	836.43	0.69	708	21.00	1098.67	1119.67	0.98
649	171.58	729.27	900.85	0.81	679	256.07	585.35	841.43	0.70	709	18.74	1103.39	1122.13	0.98

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
710	16.49	1106.03	1122.51	0.99
711	15.07	1108.90	1123.97	0.99
712	13.45	1112.63	1126.08	0.99
713	12.79	1113.53	1126.31	0.99
714	12.86	1114.85	1127.71	0.99
715	11.72	1116.77	1128.49	0.99
716	10.59	1117.96	1128.56	0.99
717	9.11	1123.08	1132.19	0.99
718	7.61	1127.19	1134.81	0.99
719	7.58	1129.30	1136.89	0.99
720	7.10	1131.77	1138.87	0.99
721	7.44	1129.54	1136.99	0.99
722	7.20	1129.73	1136.93	0.99
723	6.18	1132.23	1138.41	0.99
724	6.10	1132.33	1138.42	0.99
725	4.82	1136.23	1141.05	1.00
726	4.50	1138.24	1142.74	1.00
727	4.14	1138.18	1142.32	1.00
728	3.28	1137.65	1140.93	1.00
729	3.05	1138.47	1141.52	1.00
730	3.12	1141.49	1144.61	1.00
731	2.86	1142.74	1145.60	1.00
732	1.93	1144.78	1146.72	1.00
733	1.95	1145.41	1147.36	1.00
734	1.43	1147.41	1148.84	1.00
735	2.56	1146.33	1148.89	1.00
736	3.48	1147.12	1150.59	1.00
737	3.25	1147.61	1150.85	1.00
738	3.23	1143.49	1146.72	1.00
739	3.04	1143.39	1146.44	1.00

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
740	3.05	1147.26	1150.31	1.00
741	3.08	1151.62	1154.70	1.00
742	2.82	1152.51	1155.33	1.00
743	1.90	1150.29	1152.19	1.00
744	1.53	1148.12	1149.65	1.00
745	1.73	1150.04	1151.77	1.00
746	0.66	1155.29	1155.96	1.00
747	0.00	1161.36	1160.60	1.00
748	0.00	1160.91	1160.07	1.00
749	0.00	1158.36	1157.66	1.00
750	0.70	1157.45	1158.16	1.00

Absorption and scattering coefficients of *Chlamydomonas reinhardtii* tla1

Summary for CC125				
	Major Diameter (μm)	Minor Diameter (μm)	Circularity	Feret (μm)
Average	8.4	7.9	0.90	8.8
Stdev	1.3	1.3	0.07	1.3

Chlorophyll Concentrations			
Stats	Chl a (g/kg)	Chl b (g/kg)	Chl tot (g/kg)
Average	18.98 ± 1.36	8.67 ± 0.66	27.65 ± 2.03

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo	λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo	λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
350	107.51	657.22	764.73	0.86	380	158.15	588.35	746.51	0.79	410	201.56	536.21	737.77	0.73
351	112.83	647.61	760.45	0.85	381	159.40	584.54	743.94	0.79	411	204.10	532.01	736.11	0.72
352	117.56	638.58	756.14	0.84	382	160.18	585.55	745.73	0.79	412	207.26	527.79	735.05	0.72
353	132.75	608.07	740.82	0.82	383	159.88	587.51	747.39	0.79	413	209.66	523.57	733.23	0.71
354	146.49	579.50	725.99	0.80	384	158.94	590.25	749.19	0.79	414	212.05	517.43	729.48	0.71
355	146.81	578.55	725.36	0.80	385	159.70	592.86	752.56	0.79	415	213.28	515.58	728.85	0.71
356	137.12	599.72	736.84	0.81	386	161.27	590.59	751.85	0.79	416	213.45	517.27	730.71	0.71
357	134.35	607.80	742.15	0.82	387	162.40	588.44	750.84	0.78	417	214.68	516.36	731.04	0.71
358	131.80	613.76	745.56	0.82	388	163.28	586.34	749.62	0.78	418	216.00	515.68	731.69	0.70
359	124.65	627.00	751.65	0.83	389	163.27	585.88	749.15	0.78	419	218.51	511.79	730.30	0.70
360	141.39	592.11	733.50	0.81	390	163.22	591.59	754.81	0.78	420	221.32	504.90	726.22	0.70
361	136.96	601.55	738.51	0.81	391	164.14	595.65	759.79	0.78	421	223.20	501.07	724.28	0.69
362	141.95	594.16	736.11	0.81	392	165.24	591.51	756.75	0.78	422	224.22	502.23	726.45	0.69
363	137.87	604.95	742.82	0.81	393	166.81	589.13	755.94	0.78	423	225.53	501.95	727.48	0.69
364	121.28	639.39	760.66	0.84	394	167.91	591.10	759.01	0.78	424	226.83	499.16	725.99	0.69
365	122.13	638.26	760.39	0.84	395	168.03	591.04	759.06	0.78	425	229.04	495.70	724.74	0.68
366	120.98	640.96	761.94	0.84	396	168.65	591.56	760.22	0.78	426	231.07	493.38	724.45	0.68
367	127.09	629.18	756.28	0.83	397	169.79	590.46	760.26	0.78	427	232.92	490.67	723.58	0.68
368	125.52	632.38	757.90	0.83	398	171.51	584.36	755.87	0.77	428	234.04	489.32	723.35	0.68
369	125.39	633.65	759.04	0.83	399	173.97	576.54	750.51	0.77	429	235.82	486.70	722.52	0.67
370	128.88	627.13	756.01	0.83	400	175.57	576.09	751.66	0.77	430	237.31	484.17	721.48	0.67
371	133.26	617.23	750.50	0.82	401	177.62	574.00	751.62	0.76	431	238.36	482.33	720.69	0.67
372	143.57	602.14	745.71	0.81	402	179.75	570.87	750.62	0.76	432	240.26	479.38	719.65	0.67
373	151.41	593.18	744.59	0.80	403	182.49	565.34	747.84	0.76	433	240.31	479.78	720.10	0.67
374	151.77	595.61	747.38	0.80	404	185.56	558.40	743.96	0.75	434	241.17	480.20	721.37	0.67
375	154.05	593.24	747.29	0.79	405	187.63	555.48	743.11	0.75	435	241.73	480.07	721.79	0.67
376	155.49	592.35	747.83	0.79	406	189.87	555.53	745.40	0.75	436	242.78	475.59	718.37	0.66
377	156.40	591.55	747.95	0.79	407	192.74	552.47	745.20	0.74	437	243.14	475.41	718.55	0.66
378	156.68	592.23	748.90	0.79	408	195.23	546.78	742.01	0.74	438	242.24	480.22	722.47	0.66
379	156.50	594.40	750.91	0.79	409	198.36	541.23	739.60	0.73	439	242.17	481.06	723.23	0.67

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
440	239.49	486.05	725.54	0.67
441	237.62	490.99	728.62	0.67
442	235.02	497.41	732.44	0.68
443	230.89	505.00	735.89	0.69
444	227.51	512.77	740.29	0.69
445	224.37	522.71	747.07	0.70
446	221.53	529.80	751.33	0.71
447	218.98	535.24	754.23	0.71
448	215.66	540.42	756.08	0.71
449	211.52	547.42	758.94	0.72
450	208.10	557.64	765.73	0.73
451	204.59	566.89	771.49	0.73
452	202.20	570.29	772.49	0.74
453	200.92	573.25	774.17	0.74
454	198.48	578.17	776.65	0.74
455	197.15	580.17	777.32	0.75
456	196.04	583.81	779.85	0.75
457	194.34	587.77	782.11	0.75
458	193.46	588.83	782.29	0.75
459	192.96	588.95	781.91	0.75
460	192.15	588.80	780.95	0.75
461	192.48	588.02	780.50	0.75
462	192.49	591.26	783.75	0.75
463	192.31	592.59	784.90	0.75
464	192.91	586.98	779.89	0.75
465	192.72	586.53	779.25	0.75
466	192.90	588.24	781.14	0.75
467	193.53	586.84	780.38	0.75
468	194.05	585.70	779.75	0.75
469	194.95	583.68	778.64	0.75

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
470	195.14	583.27	778.41	0.75
471	194.88	584.03	778.91	0.75
472	194.66	587.20	781.86	0.75
473	193.79	590.70	784.49	0.75
474	193.97	591.22	785.19	0.75
475	194.36	591.33	785.69	0.75
476	193.57	592.86	786.43	0.75
477	193.42	594.51	787.93	0.75
478	192.34	599.89	792.22	0.76
479	191.21	604.85	796.06	0.76
480	190.59	605.19	795.77	0.76
481	189.24	607.31	796.54	0.76
482	187.28	614.32	801.60	0.77
483	186.01	619.49	805.50	0.77
484	183.58	624.99	808.57	0.77
485	181.95	628.69	810.64	0.78
486	180.29	631.36	811.65	0.78
487	177.19	637.08	814.27	0.78
488	175.02	642.87	817.90	0.79
489	171.61	650.89	822.50	0.79
490	167.83	659.90	827.73	0.80
491	163.82	668.97	832.79	0.80
492	159.59	676.71	836.30	0.81
493	155.16	685.17	840.32	0.82
494	150.84	695.43	846.27	0.82
495	146.83	705.02	851.86	0.83
496	143.28	710.91	854.19	0.83
497	139.08	718.71	857.79	0.84
498	135.16	726.65	861.81	0.84
499	130.91	735.09	866.00	0.85

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
500	125.99	746.60	872.59	0.86
501	122.31	755.67	877.97	0.86
502	117.52	765.54	883.07	0.87
503	113.03	774.14	887.17	0.87
504	108.36	781.38	889.74	0.88
505	103.71	791.16	894.88	0.88
506	99.64	802.47	902.10	0.89
507	95.49	810.34	905.83	0.89
508	91.58	817.60	909.17	0.90
509	86.57	825.49	912.06	0.91
510	82.94	831.57	914.51	0.91
511	79.55	840.81	920.36	0.91
512	76.31	848.41	924.72	0.92
513	73.21	854.34	927.55	0.92
514	69.91	859.18	929.09	0.92
515	65.85	867.30	933.15	0.93
516	63.21	875.55	938.76	0.93
517	59.99	882.81	942.79	0.94
518	57.19	887.73	944.92	0.94
519	55.12	892.14	947.26	0.94
520	52.41	894.65	947.06	0.94
521	50.88	896.73	947.60	0.95
522	48.47	905.18	953.65	0.95
523	46.40	910.35	956.74	0.95
524	44.13	914.05	958.17	0.95
525	42.49	915.97	958.46	0.96
526	41.53	918.13	959.66	0.96
527	40.72	923.00	963.72	0.96
528	39.70	926.55	966.25	0.96
529	38.53	928.74	967.27	0.96

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
530	38.17	928.27	966.44	0.96
531	36.29	931.76	968.06	0.96
532	35.52	934.16	969.69	0.96
533	34.42	938.81	973.22	0.96
534	33.38	941.06	974.44	0.97
535	33.79	940.37	974.16	0.97
536	33.64	940.41	974.05	0.97
537	33.08	939.04	972.12	0.97
538	32.65	942.93	975.58	0.97
539	32.12	946.43	978.56	0.97
540	31.31	947.43	978.74	0.97
541	31.29	949.28	980.57	0.97
542	30.99	951.67	982.66	0.97
543	31.13	949.66	980.78	0.97
544	31.33	948.29	979.62	0.97
545	31.10	950.85	981.95	0.97
546	30.45	954.90	985.34	0.97
547	30.12	956.87	986.99	0.97
548	30.83	957.45	988.28	0.97
549	30.77	954.91	985.68	0.97
550	31.05	953.56	984.61	0.97
551	30.15	957.15	987.30	0.97
552	29.44	960.19	989.63	0.97
553	30.12	961.82	991.94	0.97
554	30.83	958.82	989.65	0.97
555	31.61	955.27	986.88	0.97
556	31.49	957.44	988.94	0.97
557	30.89	961.84	992.73	0.97
558	30.12	963.51	993.63	0.97
559	30.29	962.65	992.94	0.97

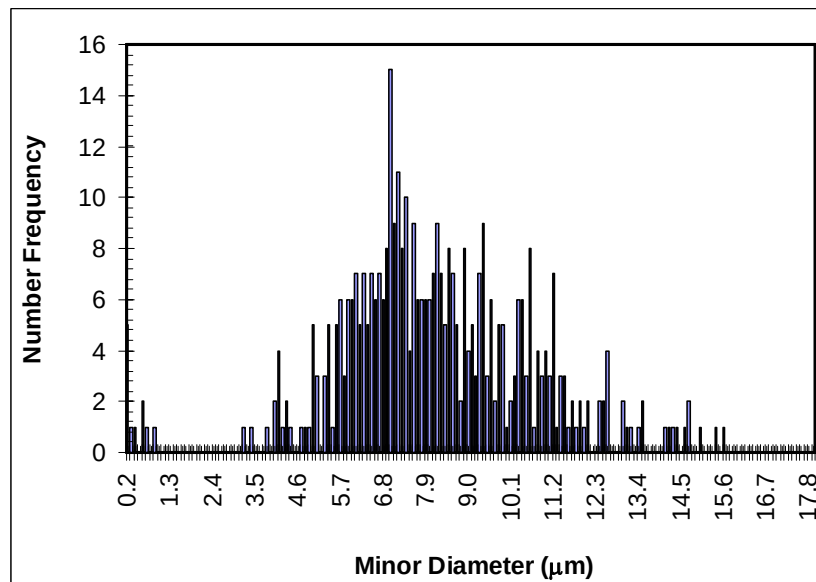
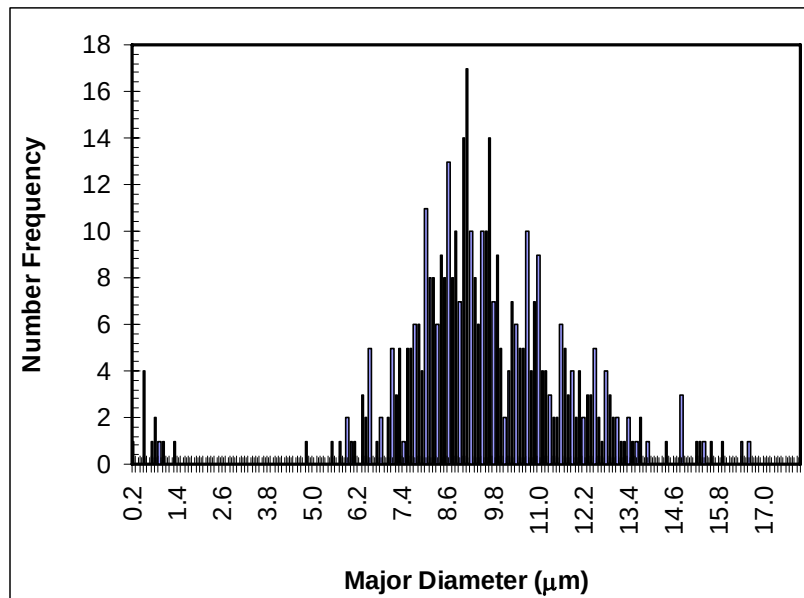
λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
560	30.83	961.38	992.20	0.97
561	32.08	958.12	990.20	0.97
562	32.60	957.90	990.49	0.97
563	32.76	961.20	993.96	0.97
564	32.79	966.39	999.18	0.97
565	32.70	967.89	1000.59	0.97
566	32.94	963.66	996.60	0.97
567	34.12	958.22	992.34	0.97
568	34.13	958.57	992.70	0.97
569	34.81	959.80	994.61	0.97
570	36.30	957.77	994.07	0.96
571	36.25	957.97	994.23	0.96
572	37.63	954.83	992.46	0.96
573	38.94	950.97	989.91	0.96
574	38.67	954.68	993.34	0.96
575	39.65	957.77	997.42	0.96
576	40.02	957.02	997.04	0.96
577	40.46	955.62	996.07	0.96
578	41.13	955.04	996.17	0.96
579	42.04	951.85	993.89	0.96
580	41.92	955.93	997.85	0.96
581	42.77	956.63	999.39	0.96
582	43.29	952.97	996.26	0.96
583	43.41	952.55	995.96	0.96
584	44.40	953.95	998.35	0.96
585	44.62	957.19	1001.81	0.96
586	45.40	956.21	1001.62	0.95
587	46.47	950.26	996.73	0.95
588	46.84	946.39	993.23	0.95
589	46.96	949.04	996.00	0.95

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
590	46.85	952.53	999.38	0.95
591	47.20	952.47	999.67	0.95
592	47.74	951.47	999.21	0.95
593	48.55	948.14	996.69	0.95
594	49.30	946.21	995.52	0.95
595	50.16	945.12	995.27	0.95
596	49.98	946.37	996.35	0.95
597	49.98	948.75	998.73	0.95
598	50.38	948.14	998.53	0.95
599	50.11	945.90	996.01	0.95
600	50.53	945.37	995.89	0.95
601	51.23	945.92	997.15	0.95
602	50.95	947.78	998.73	0.95
603	51.91	946.58	998.49	0.95
604	52.55	943.40	995.94	0.95
605	52.90	940.95	993.85	0.95
606	53.74	940.74	994.47	0.95
607	53.99	942.61	996.60	0.95
608	54.63	942.55	997.17	0.95
609	55.64	941.47	997.11	0.94
610	56.54	938.70	995.24	0.94
611	57.03	936.37	993.40	0.94
612	57.16	939.48	996.64	0.94
613	58.02	938.97	996.98	0.94
614	58.52	939.38	997.90	0.94
615	59.48	937.07	996.55	0.94
616	60.26	933.82	994.08	0.94
617	60.73	934.76	995.48	0.94
618	60.94	936.46	997.40	0.94
619	61.71	936.23	997.94	0.94

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo	λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo	λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
620	62.84	936.30	999.15	0.94	650	103.90	864.05	967.96	0.89	680	166.27	777.41	943.67	0.82
621	62.76	934.88	997.63	0.94	651	105.57	863.17	968.74	0.89	681	162.49	787.71	950.20	0.83
622	62.93	933.40	996.33	0.94	652	107.24	860.15	967.39	0.89	682	155.20	802.86	958.06	0.84
623	62.64	936.40	999.04	0.94	653	109.08	857.47	966.55	0.89	683	147.64	820.72	968.35	0.85
624	61.53	941.67	1003.20	0.94	654	110.69	852.98	963.67	0.89	684	140.65	840.60	981.25	0.86
625	61.92	943.63	1005.55	0.94	655	112.96	848.79	961.75	0.88	685	131.51	863.89	995.40	0.87
626	63.30	938.71	1002.01	0.94	656	114.95	847.67	962.62	0.88	686	122.22	887.94	1010.16	0.88
627	63.11	934.39	997.50	0.94	657	117.38	843.65	961.03	0.88	687	112.36	908.77	1021.12	0.89
628	64.53	929.03	993.56	0.94	658	120.43	839.81	960.25	0.87	688	101.71	929.42	1031.12	0.90
629	64.71	927.64	992.36	0.93	659	124.33	833.50	957.83	0.87	689	92.10	955.36	1047.46	0.91
630	64.30	929.25	993.55	0.94	660	127.50	825.44	952.93	0.87	690	83.48	978.03	1061.51	0.92
631	65.15	925.16	990.31	0.93	661	132.51	816.46	948.97	0.86	691	75.16	1000.22	1075.38	0.93
632	64.68	922.60	987.28	0.93	662	136.83	810.02	946.85	0.86	692	67.77	1019.11	1086.88	0.94
633	65.33	918.76	984.09	0.93	663	140.66	804.44	945.10	0.85	693	61.25	1032.60	1093.85	0.94
634	66.13	916.69	982.82	0.93	664	145.87	795.01	940.88	0.84	694	55.10	1047.61	1102.71	0.95
635	66.86	919.89	986.76	0.93	665	150.47	783.64	934.11	0.84	695	48.63	1065.07	1113.70	0.96
636	68.09	920.93	989.02	0.93	666	155.01	773.80	928.81	0.83	696	42.83	1082.87	1125.70	0.96
637	69.29	918.52	987.81	0.93	667	159.22	768.53	927.75	0.83	697	37.56	1096.63	1134.19	0.97
638	70.72	915.47	986.19	0.93	668	163.12	763.44	926.56	0.82	698	32.96	1104.42	1137.37	0.97
639	73.04	912.44	985.48	0.93	669	166.02	758.25	924.27	0.82	699	29.58	1110.19	1139.77	0.97
640	75.48	911.42	986.90	0.92	670	169.55	749.16	918.70	0.82	700	26.12	1119.18	1145.30	0.98
641	79.01	909.71	988.71	0.92	671	171.77	743.82	915.60	0.81	701	23.44	1127.37	1150.81	0.98
642	82.32	904.78	987.10	0.92	672	172.93	742.40	915.33	0.81	702	21.45	1133.29	1154.73	0.98
643	84.70	899.09	983.79	0.91	673	174.43	743.88	918.31	0.81	703	19.65	1136.02	1155.67	0.98
644	88.14	890.86	979.00	0.91	674	175.19	743.32	918.51	0.81	704	17.62	1137.66	1155.28	0.98
645	91.29	887.38	978.66	0.91	675	176.36	742.29	918.65	0.81	705	15.54	1141.27	1156.81	0.99
646	93.57	886.87	980.44	0.90	676	175.60	745.72	921.32	0.81	706	13.87	1145.25	1159.12	0.99
647	96.92	879.02	975.94	0.90	677	174.10	749.01	923.11	0.81	707	12.48	1149.33	1161.81	0.99
648	99.92	870.94	970.86	0.90	678	172.44	755.76	928.19	0.81	708	12.48	1148.10	1160.58	0.99
649	101.74	866.26	968.00	0.89	679	169.76	765.64	935.40	0.82	709	10.98	1147.69	1158.68	0.99

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
710	9.15	1147.97	1157.11	0.99
711	8.32	1150.37	1158.70	0.99
712	6.67	1155.74	1162.41	0.99
713	6.13	1156.33	1162.46	0.99
714	6.38	1153.91	1160.29	0.99
715	5.50	1152.26	1157.76	1.00
716	4.34	1152.93	1157.27	1.00
717	4.26	1154.91	1159.17	1.00
718	3.26	1157.42	1160.68	1.00
719	2.75	1160.47	1163.22	1.00
720	3.18	1158.13	1161.31	1.00
721	3.01	1154.36	1157.37	1.00
722	3.87	1154.43	1158.30	1.00
723	4.83	1155.04	1159.87	1.00
724	5.46	1153.28	1158.73	1.00
725	5.27	1152.57	1157.84	1.00
726	4.87	1151.00	1155.87	1.00
727	3.83	1151.67	1155.50	1.00
728	2.94	1154.73	1157.68	1.00
729	1.76	1158.83	1160.60	1.00
730	1.26	1160.11	1161.37	1.00
731	1.96	1154.53	1156.49	1.00
732	1.26	1154.60	1155.86	1.00
733	2.68	1154.68	1157.36	1.00
734	2.25	1157.77	1160.02	1.00
735	2.05	1157.49	1159.54	1.00
736	2.98	1156.41	1159.39	1.00
737	1.67	1158.02	1159.69	1.00
738	0.85	1156.28	1157.13	1.00
739	1.32	1156.82	1158.13	1.00

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
740	0.61	1160.13	1160.74	1.00
741	1.85	1160.54	1162.39	1.00
742	3.10	1158.10	1161.20	1.00
743	2.31	1154.47	1156.79	1.00
744	2.33	1152.37	1154.71	1.00
745	0.78	1158.95	1159.73	1.00
746	-0.32	1163.29	1162.97	1.00
747	-1.39	1165.50	1164.12	1.00
748	-1.03	1161.41	1160.38	1.00
749	0.44	1157.90	1158.34	1.00
750	0.74	1160.72	1161.46	1.00

Absorption and scattering coefficients of *Chlamydomonas reinhardtii* tlaX

Summary for CC125				
	Major Diameter (μm)	Minor Diameter (μm)	Circularity	Feret (μm)
Average	9.4	8.1	0.84	9.8
Stdev	2.4	2.6	0.08	2.5

Chlorophyll Concentrations			
Stats	Chl a (g/kg)	Chl b (g/kg)	Chl tot (g/kg)
Average	16.82 $\pm$ 0.24	0.16 $\pm$ 0.07	16.98 $\pm$ 0.31

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
350	93.85	757.28	851.13	0.89
351	101.51	742.12	843.63	0.88
352	106.38	730.47	836.85	0.87
353	113.67	715.36	829.03	0.86
354	115.90	709.54	825.44	0.86
355	106.34	726.47	832.82	0.87
356	98.13	742.80	840.93	0.88
357	98.75	743.32	842.06	0.88
358	108.94	722.69	831.64	0.87
359	117.74	704.80	822.54	0.86
360	126.66	688.27	814.93	0.84
361	123.60	695.06	818.66	0.85
362	117.61	707.21	824.81	0.86
363	118.65	705.81	824.46	0.86
364	124.05	695.02	819.08	0.85
365	131.11	681.23	812.34	0.84
366	138.29	666.91	805.20	0.83
367	144.79	653.79	798.58	0.82
368	126.74	690.25	816.99	0.84
369	112.15	718.81	830.96	0.87
370	109.71	723.34	833.05	0.87
371	101.91	739.01	840.92	0.88
372	112.75	720.37	833.12	0.86
373	126.28	698.82	825.10	0.85
374	127.46	702.18	829.64	0.85
375	129.41	702.20	831.62	0.84
376	130.94	700.24	831.19	0.84
377	132.70	694.91	827.61	0.84
378	133.52	692.05	825.57	0.84
379	133.43	695.68	829.11	0.84

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
380	134.79	693.47	828.26	0.84
381	135.96	689.59	825.55	0.84
382	137.18	687.09	824.26	0.83
383	138.39	684.34	822.73	0.83
384	138.65	685.73	824.38	0.83
385	139.98	685.69	825.67	0.83
386	141.60	683.67	825.27	0.83
387	141.84	685.92	827.76	0.83
388	142.21	685.15	827.36	0.83
389	143.47	680.68	824.15	0.83
390	144.16	682.77	826.93	0.83
391	145.40	684.38	829.79	0.82
392	147.65	678.92	826.58	0.82
393	149.07	677.99	827.06	0.82
394	150.64	676.92	827.56	0.82
395	151.99	671.51	823.50	0.82
396	152.23	671.60	823.82	0.82
397	153.37	672.73	826.11	0.81
398	155.61	668.22	823.83	0.81
399	158.60	661.96	820.55	0.81
400	162.00	655.84	817.83	0.80
401	164.36	650.44	814.80	0.80
402	165.79	649.38	815.17	0.80
403	167.31	647.59	814.90	0.79
404	169.10	643.24	812.35	0.79
405	170.84	640.21	811.05	0.79
406	173.70	635.59	809.29	0.79
407	176.86	631.19	808.05	0.78
408	179.33	628.61	807.94	0.78
409	182.56	623.02	805.58	0.77

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
410	186.30	614.76	801.06	0.77
411	189.28	608.76	798.04	0.76
412	192.82	603.17	795.99	0.76
413	195.55	598.25	793.80	0.75
414	197.54	594.70	792.24	0.75
415	199.17	592.98	792.14	0.75
416	199.97	591.97	791.94	0.75
417	201.16	589.29	790.45	0.75
418	202.09	588.60	790.70	0.74
419	203.15	588.42	791.57	0.74
420	204.86	585.32	790.19	0.74
421	206.25	582.83	789.08	0.74
422	207.29	583.22	790.51	0.74
423	208.94	581.70	790.64	0.74
424	209.90	579.31	789.21	0.73
425	211.56	577.06	788.62	0.73
426	212.81	576.62	789.42	0.73
427	214.11	575.08	789.20	0.73
428	215.57	572.97	788.54	0.73
429	218.02	568.95	786.96	0.72
430	219.71	566.11	785.82	0.72
431	220.27	566.36	786.63	0.72
432	221.44	565.14	786.58	0.72
433	221.52	564.09	785.60	0.72
434	222.20	563.05	785.25	0.72
435	222.99	562.29	785.28	0.72
436	223.45	561.05	784.50	0.72
437	222.81	563.78	786.59	0.72
438	221.87	566.95	788.82	0.72
439	221.47	567.70	789.17	0.72

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
440	218.89	572.89	791.78	0.72
441	216.18	581.62	797.80	0.73
442	211.96	592.34	804.30	0.74
443	206.34	600.99	807.33	0.74
444	201.78	610.69	812.46	0.75
445	197.39	621.38	818.78	0.76
446	193.04	631.36	824.41	0.77
447	189.07	641.56	830.63	0.77
448	184.05	651.97	836.02	0.78
449	178.60	662.20	840.79	0.79
450	174.52	671.73	846.25	0.79
451	170.21	679.77	849.98	0.80
452	166.91	685.98	852.89	0.80
453	163.64	695.11	858.74	0.81
454	159.89	702.03	861.92	0.81
455	157.18	705.26	862.44	0.82
456	154.97	709.24	864.21	0.82
457	153.18	713.29	866.48	0.82
458	151.52	716.74	868.26	0.83
459	149.74	719.06	868.80	0.83
460	147.58	720.82	868.40	0.83
461	146.42	721.08	867.50	0.83
462	144.76	726.27	871.03	0.83
463	142.70	731.64	874.34	0.84
464	140.84	733.15	873.99	0.84
465	138.17	736.72	874.88	0.84
466	135.72	739.76	875.48	0.84
467	134.00	742.68	876.68	0.85
468	132.18	747.55	879.73	0.85
469	130.71	750.70	881.41	0.85

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
470	129.42	751.40	880.82	0.85
471	128.39	751.37	879.77	0.85
472	127.04	755.40	882.43	0.86
473	124.99	761.54	886.53	0.86
474	123.61	766.17	889.78	0.86
475	122.28	770.44	892.72	0.86
476	121.25	770.92	892.17	0.86
477	120.91	770.41	891.32	0.86
478	120.47	773.98	894.45	0.87
479	120.18	777.71	897.89	0.87
480	120.27	777.67	897.94	0.87
481	120.37	775.04	895.41	0.87
482	120.35	775.01	895.36	0.87
483	120.82	776.27	897.09	0.87
484	120.83	778.44	899.27	0.87
485	121.41	778.86	900.27	0.87
486	121.88	776.97	898.85	0.86
487	122.24	775.09	897.33	0.86
488	122.64	774.72	897.37	0.86
489	122.23	776.33	898.56	0.86
490	122.12	778.24	900.36	0.86
491	121.44	780.85	902.29	0.87
492	120.94	781.32	902.25	0.87
493	119.85	782.86	902.71	0.87
494	117.74	788.58	906.32	0.87
495	115.41	795.05	910.47	0.87
496	113.38	799.97	913.35	0.88
497	111.10	805.29	916.39	0.88
498	109.23	808.13	917.36	0.88
499	106.34	813.67	920.01	0.88

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
500	102.38	822.98	925.35	0.89
501	99.16	831.33	930.49	0.89
502	95.21	840.16	935.37	0.90
503	92.20	846.36	938.56	0.90
504	89.05	851.27	940.33	0.91
505	85.53	858.84	944.37	0.91
506	82.41	867.11	949.52	0.91
507	79.19	874.16	953.35	0.92
508	75.63	881.95	957.58	0.92
509	71.82	887.97	959.80	0.93
510	68.26	893.96	962.22	0.93
511	64.66	901.36	966.02	0.93
512	62.37	906.47	968.84	0.94
513	59.50	913.43	972.93	0.94
514	57.24	916.77	974.01	0.94
515	53.86	923.66	977.52	0.94
516	50.81	930.57	981.37	0.95
517	48.59	934.66	983.25	0.95
518	46.47	940.18	986.65	0.95
519	44.56	944.96	989.53	0.95
520	42.02	948.75	990.77	0.96
521	39.80	951.02	990.82	0.96
522	37.84	955.46	993.30	0.96
523	36.50	958.41	994.91	0.96
524	35.29	962.09	997.39	0.96
525	33.72	965.62	999.34	0.97
526	32.60	965.04	997.64	0.97
527	31.76	966.15	997.90	0.97
528	30.98	969.92	1000.91	0.97
529	30.26	972.71	1002.97	0.97

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
530	29.68	973.47	1003.15	0.97
531	28.14	976.41	1004.55	0.97
532	27.25	977.70	1004.95	0.97
533	26.72	979.35	1006.07	0.97
534	26.05	981.31	1007.36	0.97
535	25.50	982.98	1008.48	0.97
536	25.27	982.66	1007.93	0.97
537	24.25	982.70	1006.95	0.98
538	23.87	984.35	1008.22	0.98
539	24.14	986.28	1010.43	0.98
540	23.80	987.29	1011.10	0.98
541	23.67	987.14	1010.82	0.98
542	22.82	989.53	1012.34	0.98
543	22.05	991.03	1013.08	0.98
544	21.74	991.24	1012.98	0.98
545	21.71	992.58	1014.30	0.98
546	21.68	994.61	1016.29	0.98
547	21.21	996.74	1017.95	0.98
548	21.46	996.84	1018.30	0.98
549	21.52	994.64	1016.16	0.98
550	21.88	993.27	1015.15	0.98
551	21.14	994.87	1016.00	0.98
552	20.35	997.46	1017.81	0.98
553	20.05	1001.18	1021.24	0.98
554	20.15	1001.03	1021.19	0.98
555	21.20	996.34	1017.53	0.98
556	21.27	995.79	1017.06	0.98
557	21.02	998.90	1019.92	0.98
558	20.80	999.37	1020.17	0.98
559	21.23	997.51	1018.74	0.98

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
560	22.12	995.72	1017.84	0.98
561	23.03	993.68	1016.71	0.98
562	22.52	996.33	1018.84	0.98
563	22.20	997.66	1019.86	0.98
564	21.66	999.39	1021.05	0.98
565	21.18	1002.93	1024.11	0.98
566	21.70	1002.87	1024.58	0.98
567	22.46	1000.23	1022.69	0.98
568	22.66	998.22	1020.88	0.98
569	23.64	995.72	1019.35	0.98
570	25.06	993.28	1018.33	0.98
571	25.21	994.37	1019.59	0.98
572	26.17	992.99	1019.16	0.97
573	26.72	989.80	1016.52	0.97
574	26.46	991.88	1018.34	0.97
575	27.36	994.43	1021.79	0.97
576	27.62	993.59	1021.21	0.97
577	28.12	992.55	1020.68	0.97
578	28.02	993.69	1021.70	0.97
579	28.48	990.96	1019.44	0.97
580	28.58	993.33	1021.92	0.97
581	28.90	996.61	1025.51	0.97
582	29.00	996.59	1025.58	0.97
583	28.93	994.75	1023.68	0.97
584	29.24	994.46	1023.71	0.97
585	29.77	995.97	1025.74	0.97
586	30.82	996.17	1026.99	0.97
587	31.37	994.80	1026.17	0.97
588	31.45	992.48	1023.93	0.97
589	31.61	991.09	1022.70	0.97

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
590	31.25	991.91	1023.16	0.97
591	31.40	992.97	1024.37	0.97
592	31.63	993.80	1025.43	0.97
593	31.46	993.32	1024.78	0.97
594	31.58	991.90	1023.48	0.97
595	32.14	989.55	1021.69	0.97
596	32.12	991.31	1023.43	0.97
597	32.07	994.76	1026.83	0.97
598	31.90	996.42	1028.32	0.97
599	31.32	995.91	1027.23	0.97
600	31.63	993.73	1025.37	0.97
601	32.34	993.18	1025.52	0.97
602	32.72	994.34	1027.06	0.97
603	33.25	993.27	1026.51	0.97
604	33.60	991.06	1024.67	0.97
605	34.09	989.02	1023.11	0.97
606	35.19	987.64	1022.83	0.97
607	36.28	987.76	1024.04	0.96
608	37.04	988.67	1025.71	0.96
609	37.86	988.07	1025.93	0.96
610	38.86	984.24	1023.10	0.96
611	39.70	980.30	1020.00	0.96
612	40.40	981.52	1021.91	0.96
613	41.18	982.50	1023.68	0.96
614	41.72	983.26	1024.98	0.96
615	42.46	981.12	1023.58	0.96
616	43.64	976.26	1019.90	0.96
617	44.70	975.33	1020.03	0.96
618	45.41	978.02	1023.43	0.96
619	46.46	978.28	1024.74	0.95

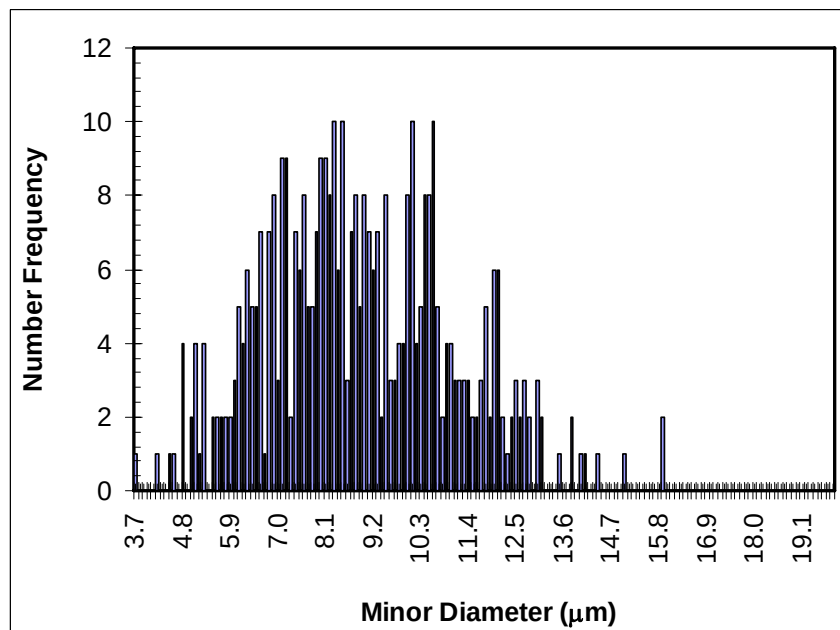
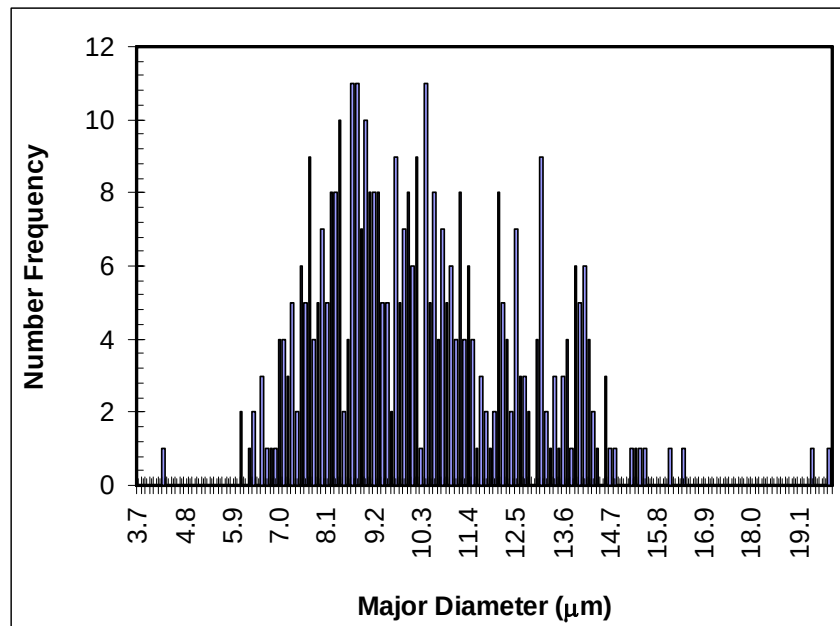
λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
620	46.91	977.94	1024.86	0.95
621	47.06	976.35	1023.40	0.95
622	47.18	976.26	1023.44	0.95
623	46.62	980.54	1027.16	0.95
624	46.14	983.80	1029.94	0.96
625	46.32	983.74	1030.07	0.96
626	47.49	978.84	1026.33	0.95
627	47.29	976.26	1023.55	0.95
628	48.03	973.87	1021.90	0.95
629	47.92	974.57	1022.49	0.95
630	47.30	975.54	1022.84	0.95
631	47.74	972.48	1020.22	0.95
632	46.70	973.15	1019.85	0.95
633	45.82	973.66	1019.48	0.96
634	44.77	975.08	1019.86	0.96
635	43.79	978.96	1022.75	0.96
636	43.40	983.31	1026.71	0.96
637	43.11	986.84	1029.95	0.96
638	42.34	988.03	1030.37	0.96
639	41.10	989.42	1030.52	0.96
640	40.36	994.14	1034.51	0.96
641	40.36	999.70	1040.06	0.96
642	41.22	1000.18	1041.40	0.96
643	41.66	999.91	1041.57	0.96
644	41.80	998.58	1040.38	0.96
645	41.47	1000.98	1042.45	0.96
646	41.38	1006.04	1047.42	0.96
647	43.02	1002.69	1045.70	0.96
648	44.98	997.48	1042.46	0.96
649	46.57	994.64	1041.21	0.96

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
650	48.64	992.31	1040.95	0.95
651	50.54	989.23	1039.77	0.95
652	53.98	982.29	1036.27	0.95
653	58.49	974.79	1033.28	0.94
654	62.82	966.65	1029.46	0.94
655	67.65	956.69	1024.33	0.93
656	71.61	948.24	1019.86	0.93
657	76.52	936.82	1013.34	0.92
658	81.38	929.41	1010.79	0.92
659	86.73	920.48	1007.22	0.91
660	92.42	907.44	999.86	0.91
661	97.51	896.62	994.13	0.90
662	102.93	884.82	987.75	0.90
663	108.46	876.05	984.52	0.89
664	113.58	868.83	982.41	0.88
665	118.79	858.00	976.79	0.88
666	124.51	844.58	969.08	0.87
667	129.25	836.03	965.28	0.87
668	134.28	828.67	962.95	0.86
669	138.41	822.98	961.39	0.86
670	141.71	817.36	959.08	0.85
671	144.29	811.33	955.62	0.85
672	146.59	805.74	952.33	0.85
673	149.33	804.25	953.58	0.84
674	151.19	805.32	956.51	0.84
675	153.26	804.36	957.62	0.84
676	153.47	804.42	957.88	0.84
677	153.44	804.30	957.74	0.84
678	153.12	807.13	960.25	0.84
679	152.66	812.37	965.03	0.84

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
680	150.68	821.16	971.84	0.84
681	147.39	830.03	977.42	0.85
682	142.30	839.55	981.85	0.86
683	135.67	853.67	989.34	0.86
684	129.47	870.13	999.60	0.87
685	121.88	889.75	1011.63	0.88
686	113.21	911.60	1024.81	0.89
687	104.02	930.77	1034.80	0.90
688	94.34	948.50	1042.84	0.91
689	84.87	971.60	1056.47	0.92
690	76.21	993.25	1069.46	0.93
691	67.72	1013.57	1081.29	0.94
692	60.00	1030.83	1090.83	0.94
693	53.65	1042.62	1096.27	0.95
694	47.65	1055.09	1102.75	0.96
695	42.69	1067.47	1110.16	0.96
696	37.55	1082.77	1120.32	0.97
697	32.29	1096.59	1128.89	0.97
698	28.50	1102.52	1131.02	0.97
699	25.39	1106.09	1131.48	0.98
700	22.87	1110.64	1133.51	0.98
701	20.85	1117.14	1137.99	0.98
702	18.46	1124.54	1143.00	0.98
703	15.93	1127.65	1143.58	0.99
704	13.74	1127.04	1140.77	0.99
705	12.36	1128.54	1140.90	0.99
706	10.87	1134.22	1145.09	0.99
707	9.55	1136.85	1146.40	0.99
708	9.13	1137.02	1146.16	0.99
709	7.47	1138.17	1145.63	0.99

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
710	6.50	1137.34	1143.83	0.99
711	6.08	1138.96	1145.04	0.99
712	5.62	1140.20	1145.83	1.00
713	5.86	1139.33	1145.18	0.99
714	6.09	1137.39	1143.48	0.99
715	5.65	1136.66	1142.31	1.00
716	4.35	1138.49	1142.84	1.00
717	3.59	1141.78	1145.37	1.00
718	3.26	1144.85	1148.11	1.00
719	3.74	1145.54	1149.28	1.00
720	3.93	1145.05	1148.98	1.00
721	4.15	1142.70	1146.85	1.00
722	3.53	1144.73	1148.27	1.00
723	2.72	1147.47	1150.19	1.00
724	3.26	1145.44	1148.70	1.00
725	2.84	1146.09	1148.93	1.00
726	2.65	1146.46	1149.10	1.00
727	2.03	1146.66	1148.69	1.00
728	1.23	1147.05	1148.28	1.00
729	0.80	1149.70	1150.50	1.00
730	1.03	1151.93	1152.96	1.00
731	1.24	1149.90	1151.14	1.00
732	0.20	1150.17	1150.37	1.00
733	0.74	1150.58	1151.32	1.00
734	0.43	1153.50	1153.93	1.00
735	1.96	1151.65	1153.62	1.00
736	3.15	1150.58	1153.73	1.00
737	2.42	1151.25	1153.67	1.00
738	1.48	1150.11	1151.58	1.00
739	0.62	1151.40	1152.01	1.00

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
740	0.84	1154.51	1155.35	1.00
741	1.81	1156.26	1158.07	1.00
742	2.40	1153.56	1155.96	1.00
743	2.05	1151.47	1153.52	1.00
744	2.27	1149.92	1152.19	1.00
745	1.77	1152.26	1154.03	1.00
746	0.98	1157.06	1158.04	1.00
747	0.00	1161.68	1161.40	1.00
748	0.00	1160.40	1159.58	1.00
749	0.00	1158.32	1157.93	1.00
750	1.34	1156.51	1157.85	1.00

Absorption and scattering coefficients of *Chlamydomonas reinhardtii* tla1-CW⁺

Summary for CC125				
	Major Diameter (μm)	Minor Diameter (μm)	Circularity	Feret (μm)
Average	10.3	8.9	0.84	10.6
Stdev	2.3	2.2	0.08	2.3

Chlorophyll Concentrations			
Stats	Chl a (g/kg)	Chl b (g/kg)	Chl tot (g/kg)
Average	22.24 $\pm$ 2.17	10.34 $\pm$ 0.98	32.57 $\pm$ 3.15

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
350	152.94	661.93	814.88	0.81
351	156.20	655.59	811.79	0.81
352	151.49	662.88	814.37	0.81
353	163.02	640.99	804.01	0.80
354	175.78	615.19	790.97	0.78
355	179.13	605.93	785.06	0.77
356	180.47	602.62	783.09	0.77
357	180.17	605.19	785.35	0.77
358	179.25	609.02	788.27	0.77
359	171.68	623.31	794.99	0.78
360	188.46	588.60	777.06	0.76
361	190.99	584.10	775.09	0.75
362	194.95	577.11	772.06	0.75
363	200.93	567.74	768.67	0.74
364	189.09	590.95	780.04	0.76
365	191.25	585.99	777.24	0.75
366	194.77	578.98	773.75	0.75
367	191.66	585.89	777.56	0.75
368	192.82	584.79	777.61	0.75
369	189.81	589.78	779.58	0.76
370	188.25	592.87	781.12	0.76
371	192.42	583.24	775.66	0.75
372	196.78	576.97	773.75	0.75
373	202.43	568.91	771.33	0.74
374	202.34	572.00	774.34	0.74
375	203.67	574.81	778.49	0.74
376	204.95	576.68	781.63	0.74
377	206.50	576.49	782.99	0.74
378	207.53	574.87	782.40	0.73
379	208.45	572.35	780.80	0.73

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
380	209.67	567.03	776.71	0.73
381	211.34	562.74	774.08	0.73
382	212.82	558.80	771.62	0.72
383	213.05	557.78	770.83	0.72
384	212.48	558.44	770.92	0.72
385	212.44	559.63	772.07	0.72
386	212.78	562.91	775.69	0.73
387	212.98	565.03	778.02	0.73
388	213.58	563.83	777.41	0.73
389	214.47	561.63	776.10	0.72
390	214.98	561.45	776.44	0.72
391	216.29	560.11	776.39	0.72
392	218.37	555.60	773.97	0.72
393	220.25	556.03	776.28	0.72
394	221.91	557.65	779.56	0.72
395	222.10	557.81	779.91	0.72
396	221.66	559.59	781.25	0.72
397	222.21	559.44	781.65	0.72
398	223.55	553.97	777.52	0.71
399	226.81	544.02	770.82	0.71
400	229.23	539.75	768.97	0.70
401	231.21	535.63	766.84	0.70
402	233.53	532.76	766.29	0.70
403	236.03	530.87	766.90	0.69
404	239.63	524.57	764.20	0.69
405	242.38	519.14	761.51	0.68
406	245.33	512.32	757.65	0.68
407	248.30	505.80	754.11	0.67
408	250.44	504.14	754.58	0.67
409	253.27	502.59	755.86	0.66

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
410	256.29	498.57	754.85	0.66
411	258.77	493.13	751.91	0.66
412	262.38	486.45	748.83	0.65
413	265.05	482.02	747.07	0.65
414	267.60	475.30	742.90	0.64
415	269.37	470.36	739.73	0.64
416	270.54	468.14	738.67	0.63
417	271.85	465.17	737.02	0.63
418	273.79	463.94	737.73	0.63
419	275.53	463.82	739.35	0.63
420	277.38	460.84	738.22	0.62
421	279.61	456.65	736.25	0.62
422	280.89	455.87	736.76	0.62
423	282.54	451.94	734.49	0.62
424	283.69	447.56	731.25	0.61
425	285.67	445.29	730.96	0.61
426	287.44	444.63	732.07	0.61
427	289.45	443.24	732.69	0.60
428	290.91	440.83	731.74	0.60
429	292.57	437.22	729.79	0.60
430	294.08	434.03	728.11	0.60
431	295.34	431.24	726.58	0.59
432	297.73	425.76	723.49	0.59
433	298.02	425.27	723.29	0.59
434	298.88	426.03	724.91	0.59
435	299.46	426.97	726.42	0.59
436	300.21	425.19	725.41	0.59
437	300.81	423.99	724.80	0.58
438	300.72	424.29	725.01	0.59
439	300.44	424.69	725.12	0.59

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo	λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo	λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
440	298.42	428.75	727.17	0.59	470	254.01	521.40	775.41	0.67	500	177.62	683.11	860.73	0.79
441	296.72	432.89	729.61	0.59	471	253.91	519.25	773.16	0.67	501	173.41	694.26	867.67	0.80
442	293.92	439.00	732.91	0.60	472	253.68	522.12	775.80	0.67	502	167.59	705.69	873.28	0.81
443	289.97	444.75	734.72	0.61	473	253.08	525.53	778.62	0.67	503	161.91	718.42	880.33	0.82
444	286.26	451.54	737.80	0.61	474	253.40	525.45	778.85	0.67	504	156.30	728.71	885.00	0.82
445	282.93	461.28	744.21	0.62	475	253.22	525.85	779.07	0.67	505	149.85	740.39	890.24	0.83
446	279.57	469.54	749.11	0.63	476	252.61	524.63	777.24	0.67	506	145.15	752.20	897.35	0.84
447	276.64	477.95	754.59	0.63	477	252.31	524.78	777.09	0.68	507	140.04	760.58	900.62	0.84
448	273.08	486.57	759.65	0.64	478	251.22	531.00	782.21	0.68	508	134.52	771.01	905.52	0.85
449	269.17	492.18	761.35	0.65	479	250.20	536.89	787.09	0.68	509	129.03	779.86	908.89	0.86
450	266.54	496.00	762.55	0.65	480	249.41	539.40	788.81	0.68	510	123.75	788.91	912.67	0.86
451	263.13	501.80	764.93	0.66	481	247.62	541.91	789.53	0.69	511	119.20	800.16	919.36	0.87
452	261.03	506.24	767.27	0.66	482	246.13	543.93	790.06	0.69	512	115.19	810.20	925.39	0.88
453	259.13	514.17	773.30	0.66	483	244.43	547.45	791.88	0.69	513	110.74	818.79	929.53	0.88
454	256.04	521.48	777.52	0.67	484	242.22	551.91	794.13	0.69	514	106.38	824.52	930.90	0.89
455	255.22	521.66	776.87	0.67	485	240.84	557.55	798.39	0.70	515	101.16	834.31	935.47	0.89
456	253.63	525.22	778.85	0.67	486	238.46	563.65	802.12	0.70	516	97.01	841.94	938.95	0.90
457	252.82	527.06	779.87	0.68	487	235.83	569.02	804.85	0.71	517	92.95	849.45	942.40	0.90
458	252.65	526.01	778.66	0.68	488	232.89	574.51	807.40	0.71	518	89.06	858.96	948.03	0.91
459	252.10	525.26	777.36	0.68	489	228.85	581.24	810.10	0.72	519	85.51	869.94	955.45	0.91
460	251.56	523.67	775.23	0.68	490	225.46	588.91	814.38	0.72	520	81.62	876.42	958.05	0.91
461	251.09	522.76	773.86	0.68	491	221.28	597.30	818.58	0.73	521	78.74	878.07	956.81	0.92
462	250.86	527.14	778.00	0.68	492	216.71	606.24	822.95	0.74	522	75.73	884.01	959.74	0.92
463	250.40	532.08	782.48	0.68	493	212.09	613.95	826.04	0.74	523	72.83	890.42	963.24	0.92
464	250.80	529.90	780.70	0.68	494	206.73	626.43	833.16	0.75	524	69.86	896.60	966.46	0.93
465	251.08	527.41	778.50	0.68	495	201.88	639.37	841.25	0.76	525	67.18	900.51	967.69	0.93
466	251.50	522.67	774.17	0.68	496	197.93	647.53	845.46	0.77	526	65.13	902.43	967.56	0.93
467	252.57	518.50	771.06	0.67	497	192.93	657.45	850.38	0.77	527	63.92	906.13	970.05	0.93
468	253.33	518.93	772.26	0.67	498	188.36	663.64	851.99	0.78	528	62.77	912.45	975.22	0.94
469	254.03	520.97	775.00	0.67	499	183.47	670.06	853.53	0.79	529	60.99	919.52	980.51	0.94

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
530	59.83	920.33	980.16	0.94
531	57.40	923.51	980.91	0.94
532	55.85	924.60	980.45	0.94
533	54.72	925.75	980.47	0.94
534	53.77	928.47	982.24	0.95
535	53.92	929.77	983.68	0.95
536	53.55	930.16	983.71	0.95
537	52.66	929.56	982.22	0.95
538	52.31	932.97	985.28	0.95
539	51.66	936.85	988.51	0.95
540	51.02	936.95	987.96	0.95
541	50.56	937.12	987.68	0.95
542	49.99	939.88	989.87	0.95
543	49.35	942.75	992.10	0.95
544	49.07	943.51	992.58	0.95
545	49.35	940.66	990.01	0.95
546	48.76	941.50	990.25	0.95
547	48.31	945.00	993.32	0.95
548	48.73	947.79	996.52	0.95
549	48.43	946.01	994.44	0.95
550	48.55	944.16	992.71	0.95
551	47.58	946.88	994.47	0.95
552	46.36	952.40	998.76	0.95
553	46.60	954.10	1000.70	0.95
554	46.99	951.86	998.85	0.95
555	48.25	946.22	994.46	0.95
556	48.66	944.11	992.76	0.95
557	48.21	949.66	997.88	0.95
558	47.73	953.96	1001.69	0.95
559	47.21	955.59	1002.79	0.95

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
560	48.10	952.47	1000.57	0.95
561	49.61	949.19	998.80	0.95
562	49.89	949.21	999.10	0.95
563	50.36	945.59	995.95	0.95
564	49.71	948.25	997.95	0.95
565	49.06	956.16	1005.21	0.95
566	49.60	957.34	1006.94	0.95
567	51.47	951.48	1002.95	0.95
568	52.60	945.80	998.40	0.95
569	53.98	941.55	995.53	0.95
570	55.70	938.62	994.32	0.94
571	55.73	940.50	996.23	0.94
572	56.93	939.22	996.15	0.94
573	58.39	934.16	992.56	0.94
574	58.89	935.76	994.65	0.94
575	60.70	937.11	997.81	0.94
576	61.37	936.81	998.18	0.94
577	62.16	935.81	997.97	0.94
578	62.65	933.95	996.60	0.94
579	63.73	927.35	991.08	0.94
580	63.86	929.52	993.38	0.94
581	64.56	932.71	997.27	0.94
582	64.91	933.05	997.96	0.93
583	65.11	930.44	995.55	0.93
584	66.48	929.48	995.95	0.93
585	67.34	930.33	997.67	0.93
586	68.37	929.19	997.55	0.93
587	68.99	926.56	995.55	0.93
588	69.07	922.92	992.00	0.93
589	69.57	921.51	991.08	0.93

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
590	70.10	924.07	994.17	0.93
591	70.71	924.90	995.61	0.93
592	71.14	924.08	995.22	0.93
593	71.62	923.13	994.75	0.93
594	72.58	920.66	993.24	0.93
595	73.69	917.50	991.19	0.93
596	73.86	915.05	988.90	0.93
597	73.77	917.91	991.68	0.93
598	74.26	920.29	994.55	0.93
599	73.98	921.06	995.04	0.93
600	75.05	918.98	994.03	0.92
601	76.12	916.20	992.32	0.92
602	75.91	916.71	992.61	0.92
603	77.04	914.48	991.51	0.92
604	77.67	913.18	990.85	0.92
605	78.49	909.81	988.30	0.92
606	79.25	907.80	987.06	0.92
607	79.52	910.97	990.49	0.92
608	80.62	912.30	992.92	0.92
609	81.15	913.19	994.34	0.92
610	82.48	907.59	990.07	0.92
611	83.21	900.68	983.89	0.92
612	83.44	901.82	985.27	0.92
613	84.79	902.95	987.74	0.91
614	85.05	906.14	991.18	0.91
615	86.07	903.62	989.68	0.91
616	87.60	899.12	986.72	0.91
617	88.18	898.78	986.97	0.91
618	89.06	900.28	989.35	0.91
619	89.98	898.18	988.16	0.91

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
620	90.86	896.27	987.13	0.91
621	90.57	895.51	986.08	0.91
622	91.20	894.37	985.57	0.91
623	91.04	899.35	990.39	0.91
624	90.43	901.96	992.38	0.91
625	90.59	902.97	993.56	0.91
626	91.46	899.54	991.00	0.91
627	91.17	897.89	989.05	0.91
628	92.21	891.87	984.08	0.91
629	93.09	887.53	980.62	0.91
630	93.40	888.12	981.52	0.90
631	93.94	888.37	982.31	0.90
632	94.22	888.56	982.77	0.90
633	95.15	883.87	979.02	0.90
634	95.85	880.16	976.01	0.90
635	97.54	878.75	976.29	0.90
636	99.24	878.48	977.72	0.90
637	100.35	879.25	979.60	0.90
638	102.85	872.46	975.31	0.89
639	105.61	866.00	971.61	0.89
640	108.69	866.10	974.79	0.89
641	113.12	864.46	977.58	0.88
642	117.50	857.47	974.97	0.88
643	120.77	848.31	969.08	0.88
644	125.02	834.76	959.78	0.87
645	129.51	825.64	955.15	0.86
646	132.91	825.76	958.66	0.86
647	136.83	819.33	956.16	0.86
648	140.39	810.22	950.61	0.85
649	143.14	803.58	946.72	0.85

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
650	146.11	799.44	945.55	0.85
651	148.34	797.20	945.53	0.84
652	150.55	793.04	943.59	0.84
653	152.52	789.21	941.73	0.84
654	154.39	785.42	939.80	0.84
655	157.58	779.73	937.31	0.83
656	160.44	775.79	936.23	0.83
657	163.35	771.71	935.07	0.83
658	167.32	766.59	933.91	0.82
659	171.25	759.31	930.56	0.82
660	175.17	749.24	924.41	0.81
661	180.85	737.67	918.53	0.80
662	185.71	728.21	913.92	0.80
663	190.83	722.65	913.47	0.79
664	196.89	714.37	911.27	0.78
665	202.17	703.05	905.22	0.78
666	207.88	688.96	896.84	0.77
667	212.46	680.44	892.91	0.76
668	217.32	673.63	890.95	0.76
669	221.02	668.71	889.73	0.75
670	224.51	658.80	883.31	0.75
671	227.29	651.23	878.53	0.74
672	227.99	651.24	879.23	0.74
673	229.35	654.08	883.43	0.74
674	230.65	655.25	885.89	0.74
675	232.22	652.94	885.17	0.74
676	231.40	652.02	883.42	0.74
677	230.13	653.98	884.12	0.74
678	228.44	659.76	888.20	0.74
679	225.74	666.29	892.03	0.75

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
680	222.16	677.08	899.24	0.75
681	217.23	690.40	907.64	0.76
682	209.11	708.47	917.58	0.77
683	199.66	729.67	929.33	0.79
684	191.80	748.73	940.53	0.80
685	181.50	770.07	951.57	0.81
686	169.54	798.82	968.36	0.82
687	157.35	824.28	981.63	0.84
688	143.84	849.32	993.16	0.86
689	131.04	879.34	1010.37	0.87
690	120.59	902.60	1023.19	0.88
691	110.16	926.63	1036.79	0.89
692	99.77	950.51	1050.28	0.91
693	90.77	968.54	1059.31	0.91
694	82.34	983.11	1065.45	0.92
695	73.51	1000.50	1074.01	0.93
696	66.52	1019.71	1086.23	0.94
697	59.21	1040.59	1099.79	0.95
698	52.97	1053.86	1106.83	0.95
699	48.07	1059.62	1107.69	0.96
700	43.27	1067.34	1110.61	0.96
701	39.16	1079.07	1118.23	0.96
702	35.62	1088.80	1124.42	0.97
703	32.51	1093.28	1125.79	0.97
704	29.43	1095.42	1124.85	0.97
705	27.29	1099.08	1126.37	0.98
706	24.34	1107.63	1131.97	0.98
707	21.69	1115.23	1136.92	0.98
708	20.15	1118.44	1138.58	0.98
709	16.81	1122.89	1139.70	0.99

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
710	14.77	1122.37	1137.14	0.99
711	14.37	1122.33	1136.70	0.99
712	13.01	1128.32	1141.33	0.99
713	12.72	1129.23	1141.95	0.99
714	12.89	1128.92	1141.81	0.99
715	11.28	1129.99	1141.27	0.99
716	10.19	1129.96	1140.15	0.99
717	10.43	1131.73	1142.16	0.99
718	9.63	1135.08	1144.71	0.99
719	9.68	1135.98	1145.66	0.99
720	8.94	1136.59	1145.52	0.99
721	7.46	1137.62	1145.08	0.99
722	6.86	1140.90	1147.76	0.99
723	6.80	1143.96	1150.76	0.99
724	8.02	1141.32	1149.34	0.99
725	7.85	1140.58	1148.44	0.99
726	8.02	1136.82	1144.84	0.99
727	7.39	1135.17	1142.56	0.99
728	6.41	1138.65	1145.06	0.99
729	6.16	1144.80	1150.96	0.99
730	4.48	1150.81	1155.28	1.00
731	3.89	1147.25	1151.14	1.00
732	3.18	1145.87	1149.05	1.00
733	3.97	1146.57	1150.55	1.00
734	4.37	1148.65	1153.02	1.00
735	5.42	1148.15	1153.57	1.00
736	5.77	1147.61	1153.38	0.99
737	4.82	1147.12	1151.94	1.00
738	4.68	1143.83	1148.51	1.00
739	3.91	1147.15	1151.06	1.00

λ (nm)	$A_{\text{abs},\lambda}$ (m ² /kg)	$S_{\text{sca},\lambda}$ (m ² /kg)	$E_{\text{ext},\lambda}$ (m ² /kg)	albedo
740	2.55	1154.41	1156.96	1.00
741	2.79	1157.07	1159.85	1.00
742	2.82	1154.78	1157.60	1.00
743	2.61	1150.13	1152.74	1.00
744	3.55	1145.77	1149.32	1.00
745	2.84	1150.91	1153.75	1.00
746	2.77	1154.91	1157.68	1.00
747	1.64	1159.05	1160.68	1.00
748	1.30	1157.24	1158.54	1.00
749	1.46	1154.20	1155.66	1.00
750	1.21	1157.94	1159.15	1.00