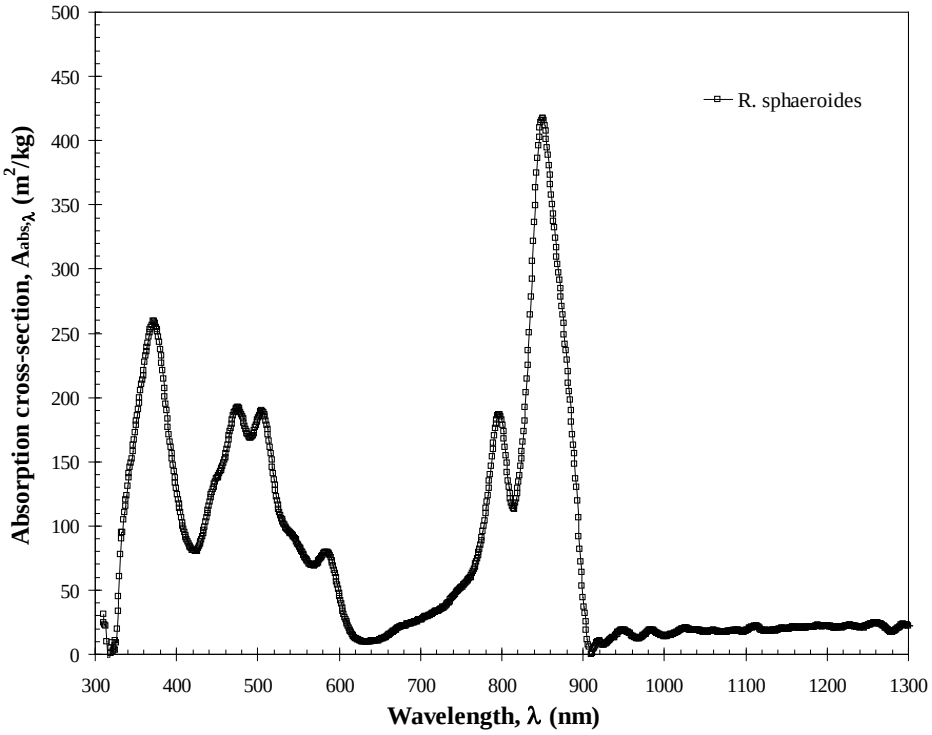
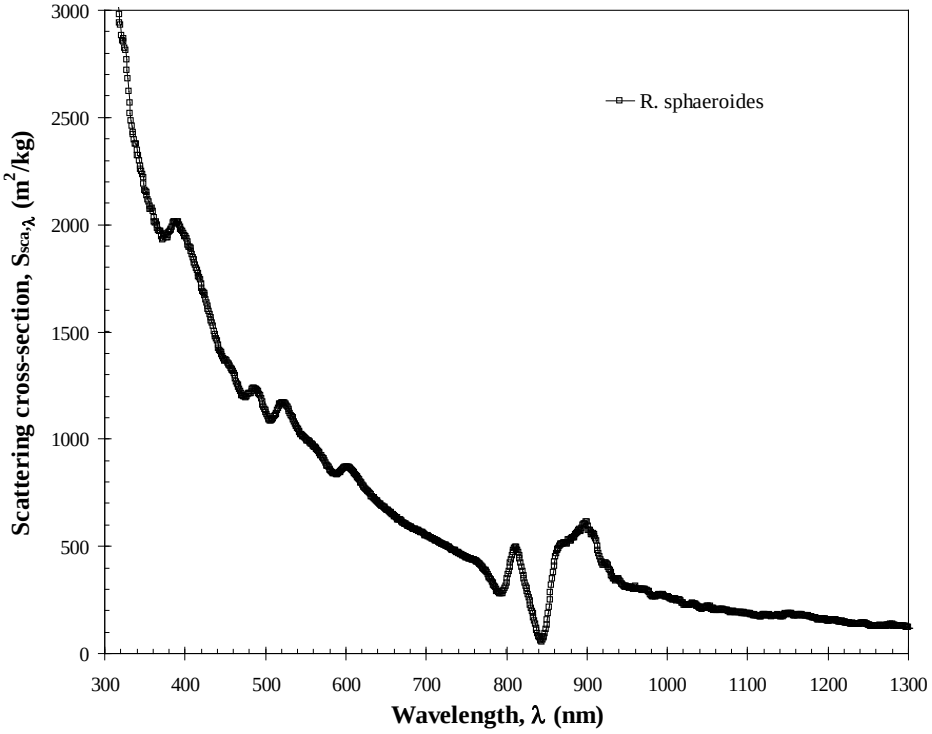
Absorption and scattering coefficients of *Rhodobacter sphaeroides*

Source: H. Berberoglu, and L. Pilon, Experimental measurements of the radiation characteristics of *Anabaena variabilis* ATCC 29413-U and *Rhodobacter sphaeroides* ATCC 49419, International Journal of Hydrogen Energy, vol. 32, pp. 4772-4785, 2007. http://dx.doi.org/10.1016/j.ijhydene.2007.08.018





λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
310	31.20	3148.90	3180.10	0.99
311	24.22	3158.27	3182.48	0.99
312	23.02	3084.32	3107.34	0.99
313	21.73	3020.14	3041.87	0.99
314	9.64	3034.02	3043.65	1.00
315	0.00	3043.21	3041.02	1.00
316	0.00	3024.56	3017.26	1.00
317	0.00	3020.40	3013.34	1.00
318	0.00	2978.22	2977.33	1.00
319	0.60	2942.54	2943.14	1.00
320	4.77	2930.57	2935.34	1.00
321	8.74	2883.94	2892.68	1.00
322	2.67	2859.35	2862.01	1.00
323	4.22	2865.81	2870.03	1.00
324	3.67	2852.68	2856.35	1.00
325	10.55	2823.13	2833.67	1.00
326	9.36	2814.44	2823.80	1.00
327	19.82	2768.87	2788.69	0.99
328	33.71	2720.50	2754.22	0.99
329	45.41	2682.37	2727.78	0.98
330	60.76	2624.10	2684.86	0.98
331	77.66	2568.16	2645.82	0.97
332	90.07	2518.38	2608.45	0.97
333	94.57	2483.29	2577.86	0.96
334	95.32	2461.55	2556.86	0.96
335	104.97	2430.95	2535.92	0.96
336	110.54	2419.57	2530.11	0.96
337	115.45	2394.04	2509.49	0.95
338	119.96	2376.78	2496.74	0.95
339	123.40	2377.41	2500.82	0.95
340	130.75	2346.29	2477.04	0.95
341	137.12	2324.63	2461.75	0.94
342	140.40	2321.44	2461.84	0.94
343	145.80	2296.54	2442.35	0.94
344	149.28	2272.08	2421.36	0.94
345	152.18	2258.00	2410.18	0.94
346	158.06	2246.46	2404.52	0.93
347	162.67	2234.31	2396.98	0.93
348	167.03	2217.41	2384.44	0.93
349	172.95	2190.50	2363.45	0.93
350	178.52	2161.59	2340.12	0.92
351	181.47	2153.51	2334.99	0.92
352	185.47	2148.54	2334.01	0.92
353	190.56	2133.47	2324.03	0.92
354	195.54	2117.82	2313.36	0.92
355	199.66	2107.93	2307.59	0.91
356	205.48	2088.92	2294.40	0.91
357	210.32	2073.39	2283.71	0.91
358	213.40	2072.18	2285.58	0.91
359	217.02	2074.59	2291.61	0.91
360	221.30	2063.12	2284.42	0.90
361	227.44	2034.98	2262.42	0.90
362	232.22	2014.51	2246.74	0.90
363	235.63	2009.31	2244.93	0.89
364	239.23	2011.04	2250.27	0.89
365	242.50	2000.80	2243.30	0.89
366	247.00	1982.03	2229.04	0.89
367	250.34	1974.13	2224.48	0.89
368	252.91	1970.08	2222.99	0.89
369	254.46	1971.23	2225.68	0.89
370	256.16	1966.91	2223.08	0.88
371	259.29	1942.29	2201.57	0.88
372	259.73	1929.51	2189.24	0.88
373	258.96	1934.58	2193.54	0.88
374	257.46	1947.78	2205.24	0.88
375	254.90	1957.57	2212.47	0.88
376	253.20	1953.04	2206.24	0.89
377	251.14	1940.78	2191.92	0.89
378	247.49	1938.16	2185.64	0.89
379	243.10	1951.19	2194.29	0.89
380	237.42	1965.24	2202.65	0.89
381	232.23	1970.42	2202.65	0.89
382	226.81	1973.53	2200.34	0.90
383	220.81	1978.46	2199.28	0.90
384	214.28	1988.45	2202.73	0.90
385	206.89	2006.00	2212.89	0.91
386	200.25	2014.55	2214.80	0.91
387	195.05	2011.70	2206.75	0.91
388	189.50	2006.97	2196.47	0.91
389	183.52	2004.85	2188.37	0.92
390	176.97	2008.77	2185.74	0.92
391	170.85	2014.39	2185.25	0.92
392	165.67	2012.38	2178.05	0.92
393	161.17	2000.13	2161.30	0.93
394	156.55	1987.60	2144.15	0.93
395	152.07	1977.92	2130.00	0.93
396	147.04	1972.93	2119.97	0.93
397	142.54	1966.46	2109.00	0.93
398	137.84	1958.07	2095.90	0.93
399	133.78	1949.58	2083.36	0.94

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
400	129.09	1944.78	2073.87	0.94
401	124.60	1942.01	2066.61	0.94
402	120.58	1933.81	2054.40	0.94
403	117.06	1917.79	2034.85	0.94
404	113.66	1904.61	2018.27	0.94
405	110.36	1896.19	2006.56	0.94
406	106.24	1894.15	2000.39	0.95
407	102.40	1889.67	1992.07	0.95
408	99.72	1877.24	1976.96	0.95
409	97.20	1862.59	1959.79	0.95
410	94.95	1847.72	1942.67	0.95
411	92.66	1834.06	1926.72	0.95
412	90.51	1822.50	1913.01	0.95
413	88.81	1809.55	1898.37	0.95
414	87.24	1798.30	1885.54	0.95
415	86.01	1786.25	1872.26	0.95
416	84.58	1771.47	1856.05	0.95
417	83.45	1757.42	1840.88	0.95
418	82.43	1750.70	1833.13	0.96
419	80.88	1743.38	1824.27	0.96
420	81.03	1725.53	1806.56	0.96
421	81.16	1705.38	1786.54	0.95
422	81.15	1689.31	1770.45	0.95
423	80.51	1682.81	1763.32	0.95
424	79.83	1680.69	1760.52	0.95
425	79.92	1670.94	1750.86	0.95
426	81.26	1652.01	1733.27	0.95
427	82.71	1634.05	1716.76	0.95
428	83.93	1618.91	1702.85	0.95
429	85.54	1606.62	1692.17	0.95
430	87.32	1594.85	1682.18	0.95
431	89.28	1580.17	1669.45	0.95
432	91.72	1563.91	1655.63	0.94
433	94.10	1551.58	1645.68	0.94
434	96.32	1541.44	1637.76	0.94
435	99.37	1525.80	1625.17	0.94
436	102.98	1504.25	1607.23	0.94
437	106.43	1488.19	1594.62	0.93
438	109.73	1478.48	1588.21	0.93
439	112.30	1469.70	1581.99	0.93
440	115.22	1456.71	1571.93	0.93
441	118.58	1438.75	1557.33	0.92
442	121.69	1424.00	1545.69	0.92
443	124.54	1413.60	1538.13	0.92
444	126.39	1409.14	1535.53	0.92
445	128.19	1403.18	1531.37	0.92
446	130.34	1393.73	1524.07	0.91
447	132.46	1384.20	1516.66	0.91
448	134.48	1375.78	1510.26	0.91
449	136.35	1366.79	1503.14	0.91
450	137.21	1367.24	1504.44	0.91
451	137.87	1369.34	1507.22	0.91
452	138.88	1364.15	1503.03	0.91
453	140.74	1356.36	1497.09	0.91
454	142.17	1348.32	1490.49	0.90
455	143.43	1344.36	1487.79	0.90
456	144.85	1339.52	1484.37	0.90
457	146.84	1332.55	1479.39	0.90
458	148.73	1326.49	1475.22	0.90
459	151.05	1318.90	1469.95	0.90
460	153.40	1313.66	1467.05	0.90
461	156.40	1308.01	1464.41	0.89
462	159.41	1296.91	1456.32	0.89
463	162.81	1281.38	1444.19	0.89
464	166.85	1265.36	1432.21	0.88
465	170.00	1256.35	1426.35	0.88
466	173.32	1250.21	1423.53	0.88
467	176.29	1242.41	1418.71	0.88
468	179.41	1231.30	1410.71	0.87
469	182.58	1221.91	1404.49	0.87
470	185.37	1212.52	1397.89	0.87
471	187.94	1204.24	1392.19	0.86
472	189.35	1202.00	1391.35	0.86
473	190.89	1196.75	1387.64	0.86
474	191.61	1195.91	1387.52	0.86
475	192.01	1196.07	1388.08	0.86
476	192.50	1192.86	1385.35	0.86
477	191.26	1198.55	1389.81	0.86
478	189.62	1207.90	1397.52	0.86
479	188.19	1212.68	1400.86	0.87
480	186.72	1212.74	1399.46	0.87
481	185.20	1210.50	1395.70	0.87
482	182.91	1214.33	1397.24	0.87
483	180.23	1223.03	1403.26	0.87
484	177.55	1232.56	1410.12	0.87
485	175.12	1238.16	1413.28	0.88
486	173.49	1235.48	1408.97	0.88
487	172.08	1230.55	1402.63	0.88
488	170.79	1230.20	1400.99	0.88
489	169.36	1231.70	1401.06	0.88

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
490	168.95	1228.60	1397.55	0.88
491	168.75	1221.58	1390.33	0.88
492	168.89	1213.19	1382.08	0.88
493	169.69	1207.79	1377.48	0.88
494	170.19	1203.05	1373.25	0.88
495	171.89	1189.86	1361.75	0.87
496	173.99	1173.82	1347.81	0.87
497	176.61	1158.41	1335.02	0.87
498	178.72	1147.13	1325.85	0.87
499	180.66	1139.87	1320.53	0.86
500	182.62	1131.85	1314.47	0.86
501	184.37	1122.37	1306.73	0.86
502	186.12	1113.56	1299.68	0.86
503	187.64	1104.92	1292.56	0.85
504	188.79	1095.81	1284.59	0.85
505	189.52	1088.48	1278.00	0.85
506	188.95	1086.61	1275.56	0.85
507	188.18	1086.70	1274.88	0.85
508	186.79	1088.53	1275.32	0.85
509	185.00	1091.22	1276.22	0.86
510	181.93	1096.83	1278.77	0.86
511	178.77	1102.93	1281.70	0.86
512	175.07	1108.62	1283.70	0.86
513	170.88	1114.94	1285.82	0.87
514	166.52	1121.81	1288.34	0.87
515	161.62	1132.44	1294.05	0.88
516	156.28	1144.99	1301.27	0.88
517	151.03	1155.61	1306.64	0.88
518	145.59	1162.68	1308.28	0.89
519	140.72	1166.11	1306.83	0.89

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
520	136.06	1168.32	1304.38	0.90
521	131.66	1169.76	1301.42	0.90
522	127.31	1170.30	1297.61	0.90
523	123.13	1170.38	1293.50	0.90
524	119.34	1168.83	1288.16	0.91
525	115.93	1165.59	1281.52	0.91
526	113.31	1159.55	1272.86	0.91
527	110.56	1153.79	1264.34	0.91
528	107.93	1147.10	1255.02	0.91
529	105.80	1139.33	1245.13	0.92
530	104.46	1129.92	1234.38	0.92
531	103.27	1117.37	1220.63	0.92
532	101.72	1108.21	1209.93	0.92
533	100.37	1102.37	1202.74	0.92
534	99.04	1097.64	1196.68	0.92
535	98.23	1087.99	1186.22	0.92
536	97.72	1079.08	1176.81	0.92
537	96.87	1070.36	1167.23	0.92
538	96.12	1062.84	1158.97	0.92
539	95.10	1060.48	1155.58	0.92
540	94.43	1053.05	1147.48	0.92
541	93.87	1043.78	1137.65	0.92
542	93.09	1037.43	1130.53	0.92
543	92.23	1029.81	1122.04	0.92
544	91.74	1023.07	1114.81	0.92
545	91.06	1019.13	1110.19	0.92
546	89.90	1014.77	1104.67	0.92
547	88.81	1011.88	1100.69	0.92
548	87.50	1009.12	1096.62	0.92
549	86.20	1005.40	1091.60	0.92

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
550	85.15	1001.18	1086.33	0.92
551	83.69	998.41	1082.10	0.92
552	82.62	994.18	1076.80	0.92
553	81.66	990.81	1072.46	0.92
554	80.46	990.47	1070.93	0.92
555	79.13	986.66	1065.79	0.93
556	77.74	983.41	1061.15	0.93
557	76.68	979.41	1056.09	0.93
558	75.57	975.12	1050.68	0.93
559	74.47	973.94	1048.41	0.93
560	73.33	968.28	1041.61	0.93
561	72.46	961.26	1033.72	0.93
562	71.61	960.42	1032.03	0.93
563	70.60	959.14	1029.73	0.93
564	70.29	954.56	1024.86	0.93
565	69.76	948.77	1018.54	0.93
566	69.54	942.54	1012.08	0.93
567	69.48	936.79	1006.27	0.93
568	69.51	930.79	1000.30	0.93
569	69.48	925.31	994.79	0.93
570	69.09	921.42	990.51	0.93
571	69.48	915.26	984.74	0.93
572	70.03	910.47	980.50	0.93
573	70.69	906.02	976.71	0.93
574	71.32	899.84	971.16	0.93
575	72.47	890.92	963.39	0.92
576	73.82	881.07	954.89	0.92
577	74.67	875.64	950.32	0.92
578	75.34	871.77	947.11	0.92
579	76.05	867.02	943.07	0.92

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
580	77.04	860.62	937.66	0.92
581	78.20	855.59	933.79	0.92
582	78.74	850.86	929.60	0.92
583	79.23	843.55	922.78	0.91
584	79.67	839.25	918.92	0.91
585	79.49	838.66	918.16	0.91
586	79.41	837.77	917.17	0.91
587	78.65	838.66	917.32	0.91
588	77.80	837.05	914.85	0.91
589	76.69	836.80	913.49	0.92
590	75.20	837.46	912.66	0.92
591	73.01	841.62	914.63	0.92
592	70.84	843.08	913.93	0.92
593	68.33	845.00	913.33	0.93
594	65.53	849.63	915.16	0.93
595	62.94	853.50	916.44	0.93
596	60.05	858.43	918.48	0.93
597	56.65	861.79	918.45	0.94
598	53.61	863.45	917.07	0.94
599	50.42	866.75	917.17	0.95
600	47.58	866.68	914.26	0.95
601	44.77	867.58	912.36	0.95
602	41.45	869.30	910.75	0.95
603	38.92	868.17	907.09	0.96
604	36.23	866.88	903.11	0.96
605	33.75	863.26	897.01	0.96
606	31.17	861.75	892.92	0.97
607	29.03	859.00	888.04	0.97
608	26.89	855.15	882.03	0.97
609	25.21	848.38	873.59	0.97

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
610	23.39	843.37	866.76	0.97
611	21.79	840.44	862.23	0.97
612	20.29	835.35	855.64	0.98
613	19.18	829.55	848.73	0.98
614	17.89	824.00	841.89	0.98
615	16.90	820.02	836.92	0.98
616	15.47	816.08	831.55	0.98
617	14.84	808.00	822.84	0.98
618	14.00	802.62	816.62	0.98
619	13.34	797.18	810.52	0.98
620	12.62	793.65	806.27	0.98
621	12.18	787.91	800.09	0.98
622	11.82	782.27	794.09	0.99
623	11.42	778.10	789.52	0.99
624	11.12	772.42	783.54	0.99
625	10.79	767.21	778.00	0.99
626	10.82	760.86	771.68	0.99
627	10.62	755.11	765.72	0.99
628	10.14	754.08	764.22	0.99
629	9.87	751.07	760.94	0.99
630	9.64	747.02	756.66	0.99
631	9.67	740.70	750.37	0.99
632	10.06	733.31	743.37	0.99
633	10.08	729.55	739.63	0.99
634	9.76	727.96	737.72	0.99
635	9.70	725.41	735.11	0.99
636	10.06	720.36	730.42	0.99
637	9.78	717.90	727.69	0.99
638	10.18	713.17	723.35	0.99
639	10.30	710.58	720.88	0.99

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
640	10.10	707.63	717.73	0.99
641	10.73	700.71	711.45	0.98
642	10.55	697.84	708.38	0.99
643	10.33	695.80	706.13	0.99
644	10.61	691.80	702.41	0.98
645	10.56	689.09	699.66	0.98
646	10.97	685.95	696.92	0.98
647	11.02	683.95	694.98	0.98
648	10.96	681.49	692.45	0.98
649	10.95	677.74	688.70	0.98
650	11.54	673.30	684.84	0.98
651	11.74	668.73	680.47	0.98
652	11.98	666.86	678.85	0.98
653	11.96	666.74	678.70	0.98
654	12.44	662.92	675.35	0.98
655	12.58	657.69	670.27	0.98
656	12.85	655.53	668.38	0.98
657	13.20	653.36	666.56	0.98
658	13.22	650.36	663.58	0.98
659	13.84	647.27	661.12	0.98
660	14.46	642.82	657.28	0.98
661	15.10	639.35	654.45	0.98
662	15.25	637.31	652.57	0.98
663	15.93	634.77	650.69	0.98
664	16.52	631.31	647.83	0.97
665	17.27	625.11	642.38	0.97
666	17.52	623.58	641.10	0.97
667	18.01	622.96	640.96	0.97
668	18.11	621.73	639.84	0.97
669	18.72	618.07	636.79	0.97

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
670	19.04	614.08	633.12	0.97
671	19.69	609.80	629.49	0.97
672	20.12	608.56	628.68	0.97
673	20.56	605.94	626.50	0.97
674	20.90	602.92	623.82	0.97
675	21.41	601.70	623.11	0.97
676	21.59	599.04	620.63	0.97
677	21.98	596.07	618.05	0.96
678	22.37	594.49	616.86	0.96
679	22.43	591.71	614.14	0.96
680	22.22	589.66	611.88	0.96
681	22.20	590.52	612.72	0.96
682	22.45	588.54	610.98	0.96
683	22.91	583.69	606.60	0.96
684	23.46	581.20	604.66	0.96
685	23.52	581.54	605.06	0.96
686	23.60	581.26	604.86	0.96
687	23.71	579.75	603.46	0.96
688	23.99	576.37	600.36	0.96
689	24.28	573.74	598.02	0.96
690	24.33	572.73	597.05	0.96
691	24.35	570.35	594.70	0.96
692	24.81	567.26	592.07	0.96
693	25.00	564.46	589.47	0.96
694	25.19	562.81	588.00	0.96
695	25.36	563.88	589.24	0.96
696	25.59	563.19	588.78	0.96
697	25.86	558.87	584.73	0.96
698	26.70	553.28	579.98	0.95
699	27.19	551.19	578.38	0.95
700	27.30	551.66	578.97	0.95
701	27.07	552.29	579.36	0.95
702	27.34	550.32	577.66	0.95
703	27.85	545.97	573.83	0.95
704	28.42	542.93	571.35	0.95
705	28.81	540.48	569.29	0.95
706	29.11	538.25	567.36	0.95
707	29.36	536.09	565.45	0.95
708	29.29	535.24	564.53	0.95
709	29.64	534.99	564.63	0.95
710	30.17	531.74	561.92	0.95
711	30.08	529.27	559.35	0.95
712	30.44	525.94	556.38	0.95
713	31.09	524.82	555.91	0.94
714	30.89	526.37	557.26	0.94
715	31.55	522.23	553.78	0.94
716	31.94	518.13	550.07	0.94
717	32.39	515.87	548.26	0.94
718	32.60	515.21	547.81	0.94
719	33.28	512.00	545.28	0.94
720	33.40	510.90	544.30	0.94
721	33.52	509.90	543.42	0.94
722	33.78	508.00	541.78	0.94
723	34.21	505.98	540.19	0.94
724	34.31	504.25	538.55	0.94
725	35.04	501.82	536.86	0.93
726	35.37	500.22	535.59	0.93
727	35.87	496.95	532.82	0.93
728	36.45	495.14	531.60	0.93
729	36.02	495.72	531.74	0.93
730	36.94	491.20	528.13	0.93
731	37.80	488.27	526.07	0.93
732	38.78	483.48	522.26	0.93
733	39.31	482.19	521.50	0.92
734	40.02	482.88	522.90	0.92
735	40.38	481.63	522.01	0.92
736	41.16	480.65	521.81	0.92
737	42.19	476.37	518.56	0.92
738	43.14	472.85	516.00	0.92
739	44.04	470.68	514.72	0.91
740	45.03	467.63	512.65	0.91
741	45.00	469.43	514.44	0.91
742	45.74	466.62	512.36	0.91
743	46.68	463.00	509.67	0.91
744	47.98	459.16	507.14	0.91
745	48.95	455.95	504.90	0.90
746	49.26	456.30	505.56	0.90
747	49.67	455.52	505.19	0.90
748	50.69	452.54	503.23	0.90
749	51.17	449.69	500.86	0.90
750	51.68	447.56	499.23	0.90
751	52.21	448.22	500.43	0.90
752	52.33	447.91	500.24	0.90
753	53.61	443.72	497.32	0.89
754	54.13	441.15	495.28	0.89
755	54.82	440.07	494.89	0.89
756	55.58	439.86	495.44	0.89
757	56.29	438.42	494.71	0.89
758	57.46	437.31	494.77	0.88
759	58.31	435.65	493.97	0.88

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
760	58.99	435.17	494.15	0.88
761	59.62	432.69	492.31	0.88
762	60.05	431.08	491.12	0.88
763	61.52	428.82	490.34	0.87
764	62.73	424.82	487.55	0.87
765	64.89	421.32	486.21	0.87
766	66.69	418.13	484.82	0.86
767	68.03	416.16	484.19	0.86
768	70.21	412.97	483.19	0.85
769	72.24	409.13	481.37	0.85
770	74.83	404.55	479.38	0.84
771	77.18	399.52	476.71	0.84
772	79.15	393.90	473.05	0.83
773	82.16	386.57	468.74	0.82
774	84.73	385.71	470.44	0.82
775	87.97	382.87	470.84	0.81
776	91.24	375.79	467.03	0.80
777	95.98	366.60	462.58	0.79
778	100.22	359.62	459.85	0.78
779	104.16	353.79	457.95	0.77
780	109.32	346.29	455.61	0.76
781	113.88	342.25	456.13	0.75
782	118.53	335.37	453.90	0.74
783	123.53	327.15	450.68	0.73
784	129.06	321.54	450.60	0.71
785	134.98	315.99	450.97	0.70
786	140.03	309.30	449.32	0.69
787	146.78	298.92	445.70	0.67
788	153.73	291.53	445.26	0.65
789	159.55	288.31	447.86	0.64
790	164.85	284.16	449.01	0.63
791	170.45	280.47	450.92	0.62
792	175.63	279.26	454.89	0.61
793	179.57	278.69	458.25	0.61
794	182.57	280.08	462.65	0.61
795	185.41	280.83	466.24	0.60
796	186.65	287.62	474.26	0.61
797	186.89	294.44	481.33	0.61
798	186.52	302.11	488.62	0.62
799	185.34	315.35	500.69	0.63
800	182.24	328.34	510.58	0.64
801	178.05	346.52	524.57	0.66
802	173.13	367.08	540.22	0.68
803	167.49	382.87	550.36	0.70
804	161.39	400.21	561.60	0.71
805	155.02	420.37	575.39	0.73
806	148.90	438.24	587.14	0.75
807	141.58	457.51	599.09	0.76
808	135.20	472.40	607.60	0.78
809	130.14	482.27	612.41	0.79
810	125.35	491.39	616.74	0.80
811	121.38	496.07	617.45	0.80
812	118.12	494.27	612.39	0.81
813	115.57	488.38	603.95	0.81
814	113.98	479.28	593.26	0.81
815	112.93	469.77	582.70	0.81
816	115.12	454.68	569.80	0.80
817	117.65	439.92	557.57	0.79
818	120.89	420.91	541.80	0.78
819	124.89	401.74	526.63	0.76
820	129.33	382.61	511.94	0.75
821	134.22	363.75	497.97	0.73
822	139.37	347.98	487.35	0.71
823	146.16	327.92	474.08	0.69
824	152.04	315.23	467.27	0.67
825	158.16	302.89	461.05	0.66
826	165.28	287.27	452.55	0.63
827	173.68	273.25	446.93	0.61
828	181.97	261.16	443.14	0.59
829	192.33	245.44	437.77	0.56
830	203.57	226.07	429.65	0.53
831	214.62	210.78	425.40	0.50
832	225.29	197.10	422.39	0.47
833	236.43	184.22	420.65	0.44
834	250.34	166.96	417.30	0.40
835	263.97	150.19	414.15	0.36
836	278.37	135.93	414.30	0.33
837	292.48	119.81	412.29	0.29
838	306.35	106.91	413.26	0.26
839	321.36	92.92	414.28	0.22
840	336.01	80.98	416.99	0.19
841	349.28	72.48	421.75	0.17
842	363.18	61.65	424.83	0.14
843	374.94	59.18	434.12	0.14
844	386.29	56.43	442.71	0.13
845	395.69	61.57	457.26	0.13
846	402.84	71.20	474.04	0.15
847	409.73	77.41	487.15	0.16
848	414.13	93.54	507.67	0.18
849	416.03	113.94	529.97	0.21

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
850	417.41	134.86	552.27	0.24
851	417.06	159.22	576.28	0.28
852	415.53	184.51	600.04	0.31
853	411.74	218.44	630.18	0.35
854	407.75	249.27	657.02	0.38
855	400.70	284.77	685.47	0.42
856	394.44	318.84	713.28	0.45
857	388.57	347.00	735.57	0.47
858	380.51	379.96	760.47	0.50
859	372.83	405.40	778.23	0.52
860	365.55	426.39	791.94	0.54
861	357.38	449.57	806.94	0.56
862	349.90	466.92	816.82	0.57
863	343.19	478.90	822.09	0.58
864	337.51	485.74	823.25	0.59
865	331.93	492.65	824.58	0.60
866	323.78	501.81	825.60	0.61
867	316.58	505.83	822.41	0.62
868	309.11	509.91	819.01	0.62
869	303.29	510.94	814.23	0.63
870	296.65	512.45	809.10	0.63
871	291.66	513.31	804.98	0.64
872	284.97	514.76	799.72	0.64
873	278.21	513.17	791.38	0.65
874	270.70	515.14	785.84	0.66
875	264.65	511.69	776.33	0.66
876	257.62	513.80	771.42	0.67
877	248.45	527.89	776.33	0.68
878	241.36	531.93	773.29	0.69
879	236.65	523.65	760.30	0.69
880	228.85	524.39	753.24	0.70
881	219.88	533.14	753.02	0.71
882	211.47	539.27	750.73	0.72
883	204.41	540.53	744.94	0.73
884	198.20	540.94	739.14	0.73
885	190.13	547.02	737.15	0.74
886	181.10	552.81	733.91	0.75
887	171.11	561.09	732.21	0.77
888	163.02	564.89	727.90	0.78
889	156.37	564.93	721.30	0.78
890	147.88	573.44	721.32	0.79
891	136.91	578.64	715.54	0.81
892	130.04	571.42	701.45	0.81
893	119.17	575.27	694.44	0.83
894	106.27	585.46	691.73	0.85
895	92.05	599.83	691.88	0.87
896	81.51	602.49	684.00	0.88
897	71.66	603.36	675.02	0.89
898	63.55	602.92	666.47	0.90
899	53.35	614.43	667.78	0.92
900	43.90	614.85	658.75	0.93
901	37.11	593.32	630.44	0.94
902	32.01	575.33	607.35	0.95
903	25.61	572.70	598.31	0.96
904	18.79	572.10	590.89	0.97
905	11.80	562.25	574.05	0.98
906	7.48	556.53	564.01	0.99
907	5.46	555.02	560.48	0.99
908	0.00	560.81	559.99	1.00
909	0.00	553.64	553.19	1.00
910	0.00	545.91	545.91	1.00
911	0.86	536.40	537.26	1.00
912	1.82	523.46	525.28	1.00
913	3.73	501.86	505.59	0.99
914	5.31	481.77	487.08	0.99
915	6.63	468.04	474.67	0.99
916	7.95	453.20	461.14	0.98
917	9.16	435.92	445.08	0.98
918	9.61	426.03	435.63	0.98
919	9.77	420.80	430.57	0.98
920	10.24	413.48	423.72	0.98
921	9.48	414.14	423.62	0.98
922	8.64	418.12	426.76	0.98
923	7.76	422.81	430.57	0.98
924	7.41	422.44	429.85	0.98
925	7.45	415.56	423.01	0.98
926	7.71	410.40	418.11	0.98
927	8.02	402.54	410.56	0.98
928	8.59	394.44	403.03	0.98
929	8.87	386.83	395.70	0.98
930	9.13	376.66	385.79	0.98
931	10.00	365.22	375.23	0.97
932	10.58	356.87	367.45	0.97
933	11.26	350.94	362.20	0.97
934	11.68	346.73	358.41	0.97
935	12.35	342.00	354.35	0.97
936	12.76	338.91	351.67	0.96
937	12.87	343.51	356.38	0.96
938	13.11	346.64	359.76	0.96
939	13.49	346.97	360.46	0.96

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
940	14.33	342.09	356.43	0.96
941	15.18	338.39	353.57	0.96
942	15.84	333.80	349.64	0.95
943	16.89	324.61	341.49	0.95
944	17.21	322.25	339.46	0.95
945	18.03	317.73	335.76	0.95
946	18.39	315.02	333.41	0.94
947	18.65	314.53	333.18	0.94
948	18.91	311.66	330.58	0.94
949	18.55	312.01	330.57	0.94
950	18.71	310.65	329.37	0.94
951	18.65	308.13	326.78	0.94
952	18.28	308.98	327.26	0.94
953	18.18	304.75	322.93	0.94
954	17.48	307.19	324.68	0.95
955	17.06	307.18	324.23	0.95
956	16.90	303.64	320.54	0.95
957	16.09	303.25	319.33	0.95
958	15.99	299.19	315.18	0.95
959	14.80	308.34	323.14	0.95
960	13.63	312.82	326.45	0.96
961	13.92	304.00	317.91	0.96
962	13.73	301.14	314.87	0.96
963	13.44	299.88	313.33	0.96
964	13.22	298.69	311.90	0.96
965	12.69	300.50	313.19	0.96
966	12.41	300.39	312.80	0.96
967	12.26	298.64	310.90	0.96
968	12.58	296.20	308.78	0.96
969	12.59	297.36	309.95	0.96

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
970	12.44	299.91	312.35	0.96
971	12.85	300.10	312.95	0.96
972	13.15	299.41	312.57	0.96
973	14.02	294.57	308.59	0.95
974	14.62	292.31	306.93	0.95
975	14.46	294.72	309.18	0.95
976	15.31	291.30	306.61	0.95
977	15.72	289.03	304.75	0.95
978	16.28	286.42	302.69	0.95
979	17.42	276.93	294.35	0.94
980	17.84	271.10	288.94	0.94
981	18.43	269.66	288.09	0.94
982	18.75	266.58	285.33	0.93
983	19.07	265.88	284.95	0.93
984	18.95	268.38	287.33	0.93
985	19.12	266.09	285.21	0.93
986	18.96	265.90	284.86	0.93
987	18.27	269.61	287.88	0.94
988	17.79	270.06	287.85	0.94
989	17.26	271.37	288.63	0.94
990	16.61	274.90	291.51	0.94
991	16.31	272.76	289.07	0.94
992	16.07	269.55	285.63	0.94
993	15.76	270.24	285.99	0.94
994	15.20	272.86	288.06	0.95
995	14.71	272.65	287.35	0.95
996	14.81	268.84	283.66	0.95
997	15.07	264.18	279.25	0.95
998	14.78	263.11	277.90	0.95
999	14.28	263.16	277.44	0.95

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
1000	13.94	265.57	279.51	0.95
1001	13.88	265.35	279.22	0.95
1002	14.07	261.87	275.94	0.95
1003	14.28	260.21	274.49	0.95
1004	14.62	257.42	272.04	0.95
1005	14.99	255.05	270.05	0.94
1006	14.68	256.52	271.20	0.95
1007	15.24	251.86	267.10	0.94
1008	15.30	250.58	265.88	0.94
1009	15.11	253.63	268.74	0.94
1010	15.23	253.22	268.45	0.94
1011	15.57	252.19	267.76	0.94
1012	16.37	246.66	263.04	0.94
1013	16.23	248.51	264.74	0.94
1014	16.67	248.00	264.67	0.94
1015	16.98	246.56	263.54	0.94
1016	16.97	248.49	265.47	0.94
1017	17.64	243.60	261.25	0.93
1018	18.41	236.67	255.09	0.93
1019	18.46	236.08	254.54	0.93
1020	18.78	233.81	252.59	0.93
1021	19.51	228.08	247.59	0.92
1022	19.56	227.43	246.99	0.92
1023	19.86	227.28	247.14	0.92
1024	19.95	226.95	246.90	0.92
1025	20.29	226.82	247.11	0.92
1026	20.19	226.77	246.96	0.92
1027	20.09	224.88	244.97	0.92
1028	20.47	224.74	245.21	0.92
1029	19.97	226.63	246.61	0.92

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
1030	19.49	231.03	250.52	0.92
1031	19.05	235.32	254.37	0.92
1032	19.22	232.81	252.03	0.92
1033	18.87	231.73	250.60	0.92
1034	18.83	230.58	249.41	0.92
1035	18.74	229.47	248.21	0.92
1036	18.44	227.68	246.12	0.92
1037	18.57	223.25	241.82	0.92
1038	18.65	218.89	237.54	0.92
1039	18.82	217.87	236.69	0.92
1040	18.71	215.95	234.66	0.92
1041	19.03	209.96	229.00	0.92
1042	19.06	208.74	227.80	0.92
1043	18.84	208.43	227.27	0.92
1044	18.39	212.22	230.61	0.92
1045	18.32	213.67	231.99	0.92
1046	18.23	211.33	229.56	0.92
1047	18.08	213.01	231.09	0.92
1048	17.57	215.22	232.79	0.92
1049	17.86	213.40	231.26	0.92
1050	17.44	218.70	236.14	0.93
1051	16.96	221.70	238.65	0.93
1052	17.60	218.00	235.60	0.92
1053	17.22	220.43	237.66	0.93
1054	17.55	215.96	233.51	0.92
1055	18.39	207.04	225.43	0.92
1056	18.32	209.00	227.32	0.92
1057	17.91	210.41	228.32	0.92
1058	18.35	203.61	221.96	0.92
1059	18.35	204.02	222.37	0.92
1060	18.48	201.87	220.35	0.92
1061	18.68	198.91	217.59	0.91
1062	18.09	202.09	220.18	0.92
1063	18.01	202.75	220.75	0.92
1064	17.78	203.90	221.68	0.92
1065	17.62	203.00	220.62	0.92
1066	17.48	203.48	220.97	0.92
1067	17.37	205.44	222.82	0.92
1068	17.14	205.22	222.36	0.92
1069	17.07	205.69	222.76	0.92
1070	17.16	203.44	220.60	0.92
1071	17.40	201.88	219.27	0.92
1072	16.96	201.57	218.54	0.92
1073	17.40	199.93	217.33	0.92
1074	17.00	201.12	218.12	0.92
1075	17.15	199.05	216.20	0.92
1076	17.25	197.32	214.56	0.92
1077	17.53	196.01	213.54	0.92
1078	17.79	192.59	210.38	0.92
1079	18.15	189.66	207.81	0.91
1080	17.82	192.73	210.55	0.92
1081	17.86	194.70	212.56	0.92
1082	17.91	195.41	213.32	0.92
1083	17.73	197.41	215.14	0.92
1084	18.16	192.58	210.74	0.91
1085	18.47	189.18	207.65	0.91
1086	18.03	192.10	210.13	0.91
1087	18.38	190.03	208.41	0.91
1088	18.44	189.95	208.38	0.91
1089	18.45	190.29	208.74	0.91
1090	18.53	190.15	208.68	0.91
1091	18.43	189.42	207.84	0.91
1092	18.40	189.19	207.58	0.91
1093	18.05	188.82	206.86	0.91
1094	17.71	189.08	206.79	0.91
1095	17.54	189.42	206.96	0.91
1096	17.24	188.24	205.49	0.92
1097	17.06	188.17	205.23	0.92
1098	17.29	186.85	204.13	0.91
1099	17.61	187.35	204.97	0.91
1100	18.36	186.38	204.73	0.91
1101	18.53	185.39	203.92	0.91
1102	19.00	184.70	203.70	0.91
1103	18.93	187.05	205.99	0.91
1104	19.79	182.79	202.58	0.90
1105	20.44	180.34	200.78	0.90
1106	20.67	179.63	200.31	0.90
1107	21.19	174.90	196.09	0.89
1108	20.77	178.95	199.72	0.90
1109	20.94	182.03	202.97	0.90
1110	21.39	178.03	199.42	0.89
1111	21.76	177.56	199.32	0.89
1112	21.53	178.60	200.13	0.89
1113	21.74	176.68	198.42	0.89
1114	21.94	174.73	196.67	0.89
1115	21.52	173.99	195.51	0.89
1116	21.02	173.58	194.59	0.89
1117	20.73	173.43	194.15	0.89
1118	19.69	177.97	197.66	0.90
1119	19.23	180.94	200.17	0.90

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
1120	19.01	179.44	198.45	0.90
1121	18.56	180.86	199.42	0.91
1122	18.38	179.88	198.26	0.91
1123	18.34	176.03	194.38	0.91
1124	18.71	176.43	195.14	0.90
1125	18.11	178.15	196.26	0.91
1126	18.17	176.96	195.13	0.91
1127	18.03	179.53	197.56	0.91
1128	18.15	176.58	194.73	0.91
1129	18.47	172.42	190.89	0.90
1130	17.88	178.01	195.90	0.91
1131	17.94	178.73	196.68	0.91
1132	18.37	175.61	193.98	0.91
1133	18.48	176.43	194.91	0.90
1134	18.81	176.41	195.22	0.90
1135	18.63	175.57	194.20	0.90
1136	18.45	178.04	196.49	0.91
1137	18.19	181.40	199.59	0.91
1138	18.79	177.00	195.79	0.90
1139	18.75	176.76	195.51	0.90
1140	18.91	176.85	195.76	0.90
1141	19.51	173.40	192.91	0.90
1142	19.64	174.01	193.65	0.90
1143	19.77	174.58	194.35	0.90
1144	20.37	171.45	191.82	0.89
1145	20.26	176.14	196.40	0.90
1146	19.33	183.91	203.24	0.90
1147	19.45	186.43	205.88	0.90
1148	19.90	182.89	202.79	0.90
1149	20.17	182.15	202.32	0.90

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
1150	19.81	184.86	204.67	0.90
1151	19.93	185.68	205.62	0.90
1152	19.65	188.28	207.94	0.91
1153	19.95	186.90	206.84	0.90
1154	20.05	187.05	207.10	0.90
1155	20.30	186.59	206.89	0.90
1156	20.78	181.87	202.65	0.90
1157	21.35	178.16	199.51	0.89
1158	21.07	177.21	198.28	0.89
1159	21.32	175.22	196.54	0.89
1160	21.03	176.70	197.73	0.89
1161	20.80	180.14	200.95	0.89
1162	21.44	177.42	198.86	0.89
1163	21.00	178.42	199.42	0.89
1164	20.50	184.01	204.51	0.90
1165	20.61	183.10	203.71	0.90
1166	20.78	182.68	203.46	0.90
1167	20.81	180.73	201.54	0.90
1168	21.34	175.59	196.93	0.89
1169	21.33	174.47	195.80	0.89
1170	20.98	174.98	195.96	0.89
1171	20.77	175.47	196.24	0.89
1172	20.51	178.06	198.58	0.90
1173	20.49	176.92	197.41	0.90
1174	20.59	176.34	196.93	0.89
1175	20.98	175.05	196.02	0.89
1176	21.19	174.36	195.55	0.89
1177	21.58	171.71	193.29	0.89
1178	21.14	170.81	191.95	0.89
1179	20.92	173.32	194.24	0.89

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
1180	21.18	169.74	190.91	0.89
1181	21.27	166.81	188.08	0.89
1182	21.01	169.15	190.16	0.89
1183	21.13	168.65	189.78	0.89
1184	21.20	168.78	189.98	0.89
1185	21.48	169.16	190.64	0.89
1186	22.01	164.38	186.39	0.88
1187	22.35	158.71	181.06	0.88
1188	22.53	159.33	181.86	0.88
1189	22.20	160.84	183.04	0.88
1190	22.27	160.33	182.59	0.88
1191	22.39	160.12	182.51	0.88
1192	22.42	157.79	180.21	0.88
1193	21.88	160.19	182.06	0.88
1194	21.68	162.09	183.77	0.88
1195	21.78	159.11	180.88	0.88
1196	22.10	156.89	178.98	0.88
1197	21.82	160.84	182.66	0.88
1198	21.93	159.31	181.24	0.88
1199	22.36	153.29	175.65	0.87
1200	22.44	153.55	176.00	0.87
1201	22.00	154.29	176.28	0.88
1202	21.89	154.11	176.00	0.88
1203	21.59	158.33	179.92	0.88
1204	21.73	155.13	176.86	0.88
1205	21.67	153.92	175.59	0.88
1206	21.39	155.00	176.38	0.88
1207	21.02	155.67	176.69	0.88
1208	20.74	156.31	177.05	0.88
1209	20.67	155.53	176.20	0.88

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
1210	20.72	155.24	175.97	0.88
1211	20.90	151.63	172.53	0.88
1212	21.02	151.24	172.25	0.88
1213	20.85	153.80	174.64	0.88
1214	21.12	149.73	170.85	0.88
1215	21.50	146.80	168.30	0.87
1216	20.99	147.12	168.11	0.88
1217	21.03	148.67	169.70	0.88
1218	20.72	151.83	172.55	0.88
1219	21.14	148.67	169.81	0.87
1220	21.13	147.40	168.53	0.87
1221	21.18	146.92	168.10	0.87
1222	21.79	144.42	166.21	0.87
1223	21.96	141.35	163.31	0.87
1224	22.06	140.59	162.64	0.86
1225	22.16	141.18	163.34	0.86
1226	22.04	140.94	162.98	0.86
1227	22.01	142.13	164.14	0.87
1228	22.51	138.31	160.82	0.86
1229	22.57	135.33	157.91	0.86
1230	22.04	139.58	161.62	0.86
1231	21.84	140.60	162.44	0.87
1232	22.11	138.38	160.48	0.86
1233	22.01	138.11	160.12	0.86
1234	21.65	139.58	161.23	0.87
1235	21.76	138.21	159.97	0.86
1236	21.55	138.13	159.69	0.86
1237	21.49	139.10	160.60	0.87
1238	20.91	139.67	160.58	0.87
1239	21.34	138.66	160.00	0.87
1240	21.36	137.32	158.68	0.86
1241	20.85	141.74	162.58	0.87
1242	20.95	142.02	162.97	0.87
1243	21.16	139.42	160.58	0.87
1244	21.10	140.62	161.72	0.87
1245	20.79	141.50	162.29	0.87
1246	21.14	140.58	161.72	0.87
1247	21.81	138.55	160.37	0.86
1248	21.82	136.90	158.72	0.86
1249	22.14	135.44	157.57	0.86
1250	22.41	132.63	155.04	0.86
1251	22.70	132.33	155.04	0.85
1252	22.91	130.52	153.44	0.85
1253	23.32	127.43	150.75	0.85
1254	23.44	128.52	151.95	0.85
1255	23.68	128.57	152.25	0.84
1256	24.11	126.45	150.56	0.84
1257	24.38	125.65	150.03	0.84
1258	24.21	128.71	152.93	0.84
1259	24.21	128.02	152.23	0.84
1260	24.35	127.25	151.59	0.84
1261	24.16	127.98	152.14	0.84
1262	24.53	126.47	150.99	0.84
1263	24.03	130.06	154.09	0.84
1264	23.93	130.51	154.45	0.84
1265	23.94	128.82	152.76	0.84
1266	23.56	128.49	152.05	0.84
1267	23.05	127.28	150.32	0.85
1268	22.67	126.57	149.24	0.85
1269	22.37	126.92	149.29	0.85
1270	22.10	126.33	148.43	0.85
1271	21.15	129.93	151.08	0.86
1272	20.43	130.93	151.36	0.86
1273	20.16	128.50	148.66	0.86
1274	19.43	131.78	151.21	0.87
1275	18.82	131.78	150.60	0.87
1276	18.79	129.51	148.30	0.87
1277	18.23	133.70	151.93	0.88
1278	17.49	137.21	154.70	0.89
1279	17.69	134.31	152.00	0.88
1280	17.32	135.51	152.83	0.89
1281	17.61	131.49	149.10	0.88
1282	17.93	129.76	147.69	0.88
1283	18.38	130.52	148.90	0.88
1284	18.93	129.30	148.22	0.87
1285	19.15	129.89	149.04	0.87
1286	19.80	129.17	148.96	0.87
1287	20.34	127.89	148.23	0.86
1288	20.68	127.44	148.12	0.86
1289	21.12	129.12	150.24	0.86
1290	21.51	128.85	150.37	0.86
1291	22.52	127.31	149.82	0.85
1292	22.65	126.65	149.30	0.85
1293	22.96	125.86	148.83	0.85
1294	23.70	125.95	149.65	0.84
1295	22.75	128.27	151.01	0.85
1296	22.19	127.66	149.85	0.85
1297	22.63	124.87	147.50	0.85
1298	22.97	123.60	146.57	0.84
1299	22.68	124.47	147.15	0.85

λ (nm)	$A_{abs,\lambda}$ (m^2/kg)	$S_{sca,\lambda}$ (m^2/kg)	$E_{ext,\lambda}$ (m^2/kg)	albedo
1300	22.44	121.79	144.23	0.84
1301	23.18	115.50	138.68	0.83
1302	22.56	118.86	141.42	0.84
1303	22.18	119.04	141.22	0.84
1304	22.18	116.23	138.42	0.84
1305	21.88	117.03	138.91	0.84
1306	21.64	118.07	139.71	0.84
1307	20.63	123.01	143.64	0.86
1308	20.06	127.26	147.32	0.86
1309	19.96	126.53	146.49	0.86
1310	19.32	126.85	146.17	0.87