

MODIS band	Wavelength ( $\mu\text{m}$ )	Rayleigh optical depth	O <sub>3</sub> optical depth <sup>a</sup>	H <sub>2</sub> O optical depth <sup>a</sup>	Dry-gas <sup>b</sup> optical depth <sup>a</sup>	O <sub>3</sub> _K0	O <sub>3</sub> _K1	H <sub>2</sub> O_K0	H <sub>2</sub> O_K1	H <sub>2</sub> O_K2
B3	0.4659	1.92E-01	2.90E-03	8.00E-05	1.25E-03	-1.14E-04	8.69E-06	-9.58E+00	1.23E+00	-1.16E-01
B4	0.5537	9.44E-02	3.26E-02	5.00E-04	9.50E-04	5.18E-06	9.50E-05	-7.91E+00	1.00E+00	-1.29E-02
B1	0.6456	5.08E-02	2.52E-02	5.11E-03	3.91E-03	1.16E-04	7.32E-05	-5.60E+00	9.40E-01	-1.78E-02
B2	0.8564	1.62E-02	8.10E-04	8.61E-03	2.00E-05	2.80E-07	2.36E-06	-5.07E+00	8.77E-01	-2.40E-02
B5	1.2417	3.61E-03	0.00E+00	5.23E-03	1.69E-02	1.19E-07	1.55E-25	-5.65E+00	9.81E-01	-2.38E-02
B6	1.6285	1.22E-03	0.00E+00	1.62E-03	9.98E-03	1.19E-07	5.17E-26	-6.80E+00	1.03E+00	-4.29E-03
B7	2.1134	4.30E-04	2.00E-05	2.53E-02	1.63E-02	6.29E-07	7.03E-08	-3.98E+00	8.86E-01	-2.56E-02