MODIS Reflected Solar Bands

	Primary Use	Band No.	Bandwidth (nm)	Spectral Radiance	Required SNR
250 M	Land/Cloud Boundaries	1**	620-670	21.8	128
		2**	841-876	24.7	201
500 M	Land/Cloud Properties	3*	459-479	35.3	243
		4*	545-565	29.0	228
		5*	1230-1250	5.4	74
		6*	1628-1652	7.3	275
		7*	2105-2155	1.0	110
	Ocean Color/ Phytoplankton/ Biogeochemistry	8	405-420	44.9	880
		9	438-448	41.9	838
		10	483-493	32.1	802
		11	526-536	27.9	754
		12	546-556	21.0	750
		13	662-672	9.5	910
		14	673-683	8.7	1087
		15	743-753	10.2	586
		16	862-877	6.2	516
	Atmospheric Water Vapor	17	890-920	10.0	167
		18	931-941	3.6	57
		19	915-965	15.0	250

* 500m Spatial Resolution
** 250m Spatial Resolution

Spectral Radiance values are in W/m^2-um-sr
SNR = Signal-to-noise ratio

MODIS Thermal Bands

Primary Use	Band	Bandwidth (μm)	Spectral Radiance	Required NEDT (K)
Surface/Cloud Temperature	20	3.660-3.840	0.45(300K)	0.05
	21	3.929-3.989	2.38(335K)	2.00
	22	3.929-3.989	0.67(300K)	0.07
	23	4.020-4.080	0.79(300K)	0.07
Atmospheric Temperature	24	4.433-4.498	0.17(250K)	0.25
	25	4.482-4.549	0.59(275K)	0.25
Cirrus Clouds	26	1.360-1.390	6.00	150 (SNR)
Water Vapor	27	6.535-6.895	1.16(240K)	0.25
	28	7.175-7.475	2.18(250K)	0.25
	29	8.400-8.700	9.58(300K)	0.05
Ozone	30	9.580-9.880	3.69(250K)	0.25
Surface/Cloud Temperature	31	10.780-11.280	9.55(300K)	0.05
	32	11.770-12.270	8.94(300K)	0.05
Cloud Top Altitude	33	13.185-13.485	4.52(260K)	0.25
	34	13.485-13.785	3.76(250K)	0.25
	35	13.785-14.085	3.11(240K)	0.25
	36	14.085-14.385	2.08(220K)	0.35

Spectral Radiance values are in W/m^2-um-sr
NEDT = Noise-equivalent temperature difference