

	Channel	Spectral range (nm)	Resolution (nm)	Stability (nm)
<b>High-resolution channels</b>	1	240-314	0.24	0.003
	2	309-405	0.26	0.003
	3	394-620	0.44	0.004
	4	604-805	0.48	0.005
	5	785-1050	0.54	0.005
	6	1000-1750	1.48	0.015
	7	1940-2040	0.22	0.003
	8	2265-2380	0.26	0.003

Table 1: Table of optical parameters of the SCIAMACHY instrument.

Band	Band centre (nm)	Bandwidth (nm)	Applications
1	412.5	10	Yellow substance
2	442.5	10	Chlorophyll absorption maximum
3	490.0	10	Chlorophyll + other pigments
4	510.0	10	Suspended sediment, red tides
5	560.0	10	Chlorophyll absorption minimum
6	620.0	10	Suspended sediment
7	665.0	10	Chlorophyll absorption + fluorescence
8	681.25	7.5	Chlorophyll fluorescence peak
9	708.75	10	Fluorescence reference, atmospheric corrections
10	753.75	7.5	Vegetation, cloud, O <sub>2</sub> absorption band reference
11	760.625	3.75	O <sub>2</sub> R-branch absorption band
12	778.75	15	Atmospheric corrections
13	865.0	20	Atmospheric corrections
14	890.0	10	Vegetation, water vapour reference
15	900.0	10	Water vapour

Table 2: Table of the MERIS spectral bands and their applications.