

Appendix I

Basic Parameters of Common Satellite Sensors Used for the Detection of HABs

Satellite Sensor	Spatial Resolution(m)	Spectral Resolution(nm)	Start Year	Stop Year
MERIS	300	3.75-20	2002	2012
SeaWiFS	1100	20	1997	2010
MODIS	500	10-15	2000	--
GOCI	500	10-20	2011	--
HJ-CCD	30	60	2008	--
MSS	60	100	1972	1992
TM	30	60	1982	--
ETM+	30	60	1999	--
OLI	30	40	2013	--

Appendix II

The Monitoring Statistics of HABs via all Useful Images of LDCMs from 1983 to 2016

Year	1983		1984		1985		1986		1987		1988		1989		1991	
Time	A	N	A	N	A	N	A	N	A	N	A	N	A	N	A	N
May.	0	1	0	1	0	3	0	1	0	0	0	1	0	0	0	0
Jun.	0	0	0	3	0	1	0	0	0	1	0	0	0	0	0	1
Jul.	0	1	1	0	3	0	0	0	0	0	0	0	0	0	1	0
Aug.	0	1	4	0	1	0	1	0	0	0	0	0	1	0	0	1
Sep.	0	2	0	0	0	0	0	0	0	1	0	0	0	1	1	1
Oct.	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	4
Sub.	0	5	5	4	4	4	1	1	0	2	0	2	1	2	2	7
Total	5		9		8		2		2		2		3		9	
Year	1992		1993		1994		1995		1996		1997		1998		1999	
Time	A	N	A	N	A	N	A	N	A	N	A	N	A	N	A	N
May.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jun.	0	0	0	1	0	1	0	3	0	1	0	1	0	1	0	1
Jul.	1	0	0	0	0	1	2	1	0	1	1	1	0	1	3	1
Aug.	0	0	0	0	0	1	1	1	1	2	1	0	0	0	0	2
Sep.	0	0	0	1	0	3	0	3	0	2	0	1	0	2	0	2
Oct.	0	1	0	1	0	1	0	0	0	2	0	2	0	1	0	3
Sub.	1	1	0	3	0	7	3	8	1	8	2	5	0	5	3	11
Total	2		3		7		11		9		7		5		14	
Year	2000		2001		2002		2003		2004		2005		2006		2007	
Time	A	N	A	N	A	N	A	N	A	N	A	N	A	N	A	N
May.	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Jun.	0	3	0	6	0	6	0	0	0	4	0	2	0	3	0	4
Jul.	1	3	0	5	1	1	0	1	1	3	0	3	1	1	0	7
Aug.	0	2	0	5	0	3	1	2	2	3	0	4	1	4	1	3
Sep.	2	4	0	3	0	2	0	1	1	2	0	4	0	7	1	2
Oct.	0	2	0	3	0	2	0	3	0	5	0	1	0	2	0	6
Sub.	3	15	0	22	1	14	1	7	4	17	0	14	2	17	2	20
Total	18		22		15		8		21		14		19		22	17
Year	2009		2010		2011		2012		2013		2014		2015		2016	
Time	A	N	A	N	A	N	A	N	A	N	A	N	A	N	A	N
May.	0	0	0	1	0	0	0	0	0	0	0	1	0	2	0	15
Jun.	0	3	2	1	0	2	0	0	0	6	0	5	0	5	0	3
Jul.	1	6	3	0	0	0	0	0	4	1	3	0	2	3	2	1
Aug.	2	2	0	1	2	3	0	2	1	0	0	2	0	2	1	21
Sep.	0	2	0	4	0	5	0	0	0	5	1	2	2	2	0	10
Oct.	0	2	0	5	0	4	0	0	0	3	0	6	0	4	0	68
Sub.	3	15	5	12	2	14	0	5	5	15	4	15	4	17	5	8
Total	18		17		16		5		20		19		21		13	380

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* The letter A represents the column of found algal blooms images, the letter N represents the column of no algal blooms images.

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