

**GDA Corp.**

**CASA-AWiFS**  
(Version 1.7)

**White Paper:**

**Validation of the Cloud and Cloud Shadow  
Assessment System for AWiFS Imagery**

**Appendix 1 – AWiFS Validation Dataset**



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## Appendix 1 – AWiFS Validation Dataset

##	Path	Row	Acquisition				Quad	CASA (%)			Estimated (%)			Error Level (%)		
			Year	Month	Day	Dense Clouds		Haze	Total Cover	Dense Clouds	Haze	Total Cover	Dense Clouds	Haze	Total Cover	
1	14	41	2006	7	4	B	19.5	6.0	25.5	20.0	5.0	25.0	0.5	1.0	0.5	
2	29	36	2006	7	31	C	23.3	2.0	25.3	21.0	5.0	26.0	2.3	3.0	0.7	
3	31	39	2006	8	10	A	26.5	1.2	27.7	24.0	4.0	28.0	2.5	2.8	0.3	
4	44	39	2006	8	3	A	32.3	1.0	33.3	29.0	4.0	33.0	3.3	3.0	0.3	
5	51	35	2006	6	3	D	8.1	0.1	8.2	7.0	3.0	10.0	1.1	2.9	1.8	
6	51	35	2006	7	21	B	18.8	2.8	21.6	20.0	0.0	20.0	1.2	2.8	1.6	
7	54	35	2006	7	12	C	41.5	1.9	43.4	35.0	5.0	40.0	6.5	3.1	3.4	
8	55	35	2006	6	23	C	50.9	3.1	54.0	45.0	10.0	55.0	5.9	6.9	1.0	
9	59	97	2006	8	6	D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	59	97	2006	8	30	D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	59	97	2006	9	23	D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	60	100	2006	8	11	B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	60	100	2006	9	4	B	1.6	0.0	1.6	2.0	0.0	2.0	0.4	0.0	0.4	
14	60	100	2006	9	28	B	1.2	0.0	1.2	1.0	0.0	1.0	0.2	0.0	0.2	
15	62	100	2006	8	21	A	19.5	0.1	19.6	15.0	3.0	18.0	4.5	2.9	1.6	
16	62	100	2006	9	14	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	63	98	2006	8	26	C	0.2	0.0	0.2	0.5	0.0	0.5	0.3	0.0	0.3	
18	63	98	2006	9	19	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	90	51	2006	10	4	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	242	33	2006	6	21	D	25.2	0.0	25.2	24.0	0.0	24.0	1.2	0.0	1.2	
21	247	35	2006	5	29	C	28.6	0.0	28.6	30.0	0.0	30.0	1.4	0.0	1.4	
22	250	44	2006	9	17	D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	252	33	2006	5	6	D	12.5	8.4	20.9	10.0	12.0	22.0	2.5	3.6	1.1	
24	252	44	2006	9	27	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	254	47	2006	10	7	A	0.1	0.0	0.1	0.5	0.0	0.5	0.4	0.0	0.4	
26	255	49	2006	9	18	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	257	44	2006	8	11	B	19.7	2.2	21.9	16.0	5.0	21.0	3.7	2.8	0.9	
28	262	44	2006	6	1	A	2.8	0.3	3.0	2.0	0.0	2.0	0.8	0.3	1.0	
29	263	33	2006	4	19	D	68.2	0.2	68.4	65.0	0.0	65.0	3.2	0.2	3.4	
30	263	36	2006	5	13	D	35.8	0.4	36.2	35.0	0.0	35.0	0.8	0.4	1.2	

31	264	34	2006	5	18	D	30.4	5.7	36.1	32.0	12.0	44.0	1.6	6.3	7.9
32	264	43	2006	6	11	B	28.9	0.2	29.1	30.0	0.0	30.0	1.1	0.2	0.9
33	266	36	2006	5	28	A	63.5	1.5	65.0	65.0	2.0	67.0	1.5	0.5	2.0
34	266	40	2006	5	28	D	10.1	10.8	20.9	5.0	20.0	25.0	5.1	9.2	4.1
35	266	42	2006	8	8	A	31.8	0.0	31.8	35.0	0.0	35.0	3.2	0.0	3.2
36	267	38	2006	6	2	D	10.8	0.0	10.9	10.0	0.0	10.0	0.8	0.0	0.9
37	269	45	2006	4	25	C	18.8	1.4	20.2	20.0	4.0	24.0	1.2	2.6	3.8
38	271	42	2006	5	29	C	38.9	0.9	39.8	35.0	5.0	40.0	3.9	4.1	0.2
39	274	44	2005	8	29	B	39.4	15.1	54.5	45.0	15.0	60.0	5.6	0.1	5.5
40	275	49	2005	9	3	B	6.0	0.5	5.0	6.0	0.0	6.0	0.0	0.5	1.0
41	277	37	2006	6	28	C	37.4	3.4	40.9	32.0	6.0	38.0	5.4	2.6	2.9
42	280	42	2005	8	11	A	67.9	5.1	73.1	63.0	8.0	71.0	4.9	2.9	2.1
43	280	50	2006	5	2	B	14.3	2.4	16.7	15.0	4.0	19.0	0.7	1.6	2.3
44	285	44	2006	5	3	D	10.8	1.7	12.5	11.0	0.0	11.0	0.2	1.7	1.5
45	285	44	2006	6	20	D	3.7	2.0	5.8	5.0	4.0	9.0	1.3	2.0	3.3
46	286	43	2006	6	1	B	17.8	0.0	17.8	16.0	5.0	21.0	1.8	5.0	3.2
47	286	43	2006	6	1	D	15.6	1.8	17.3	10.0	5.0	15.0	5.6	3.2	2.3
48	286	43	2006	6	25	D	52.7	8.5	61.3	55.0	10.0	65.0	2.3	1.5	3.7
49	286	43	2006	7	19	B	13.3	1.7	15.0	16.0	8.0	24.0	2.7	6.3	9.0
50	286	43	2006	7	19	D	11.1	5.9	17.0	10.0	4.0	14.0	1.1	1.9	3.0
51	286	43	2006	8	12	B	3.2	0.6	3.8	4.0	0.0	4.0	0.8	0.6	0.2
52	286	43	2006	9	29	D	6.8	0.0	6.8	7.0	0.0	7.0	0.2	0.0	0.2
53	292	44	2006	7	1	A	0.8	0.0	0.8	1.0	0.0	1.0	0.2	0.0	0.2
54	317	103	2005	12	26	D	15.1	4.7	19.8	17.0	2.0	19.0	1.9	2.7	0.8
55	317	103	2006	3	8	D	18.2	1.3	19.4	20.0	1.0	21.0	1.8	0.3	1.6
56	318	82	2006	1	24	D	13.5	7.7	21.2	15.0	10.0	25.0	1.5	2.3	3.8
57	318	103	2005	12	31	B	13.7	2.2	15.9	13.0	3.0	16.0	0.7	0.8	0.1
58	322	86	2006	1	20	C	6.5	0.1	6.6	7.0	0.0	7.0	0.5	0.1	0.4
59	323	87	2006	2	18	A	56.7	28.9	85.6	65.0	25.0	90.0	8.3	3.9	4.4
60	324	95	2006	1	30	D	13.2	3.0	16.3	15.0	0.0	15.0	1.8	3.0	1.3
61	325	98	2006	3	24	C	14.6	0.4	15.1	15.0	0.0	15.0	0.4	0.4	0.1
62	325	106	2006	4	17	C	1.3	0.0	1.3	2.0	2.0	4.0	0.7	2.0	2.7
63	326	96	2006	3	29	C	54.6	8.9	63.5	55.0	10.0	65.0	0.4	1.1	1.5

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