

## An Inverse Problem Approach for Automatically Adjusting the Parameters for Rendering Clouds Using Photographs (supplemental material)

**Parameters used to render synthetic clouds shown in the paper**

Figure	$c_{in}$			$L_{in}$	$g$	$\sigma_t$	$\beta$	$L_{amb}$	$\kappa_a$			sun direction*	
1(a)	0.80	0.82	0.84	3.97	0.48	0.22	0.29	0.95	0.20	0.30	0.70	60.0	90.0
1(b)	0.67	0.71	0.80	3.86	0.02	0.11	0.22	0.69	0.20	0.20	0.70	45.0	45.0
1(c)	0.84	0.64	0.45	6.40	0.48	0.30	0.56	0.10	0.00	0.10	0.20	0.0	45.0
1(d)	0.73	0.44	0.18	2.46	0.38	0.62	1.00	0.11	0.00	0.00	0.00	0.0	90.0
1(e)	0.91	0.45	0.31	1.28	0.10	0.20	0.88	0.44	0.00	0.00	0.60	90.0	90.0
1(f)	0.84	0.54	0.49	3.88	0.30	0.12	0.45	0.72	0.00	0.10	0.20	45.0	0.0
5(a)	0.88	0.90	0.88	2.30	0.20	0.50	0.50	0.60	0.20	0.10	0.10	90.0	0.0
5(b)	0.83	0.87	0.87	2.02	0.10	0.39	0.50	0.61	0.00	0.00	0.00	90.0	0.0
5(c)	0.88	0.90	0.88	2.30	0.20	0.50	0.50	0.60	0.20	0.10	0.10	10.0	20.0
5(d)	0.83	0.87	0.87	2.02	0.10	0.39	0.50	0.61	0.00	0.00	0.00	10.0	20.0
5(e)	0.77	0.80	0.80	5.91	0.31	0.56	0.38	0.68	0.10	0.00	0.00	10.0	20.0
7(a) left	0.83	0.87	0.87	1.41	0.14	0.56	0.62	0.62	0.00	0.00	0.00	90.0	0.0
7(a) right	0.83	0.87	0.87	5.99	0.01	0.25	0.25	0.35	0.00	0.00	0.10	90.0	0.0
7(b) left	0.83	0.87	0.87	3.03	0.24	0.50	0.47	0.62	0.00	0.00	0.00	90.0	0.0
7(b) right	0.83	0.87	0.87	2.75	0.09	0.36	0.57	0.42	0.30	0.60	0.80	90.0	0.0
8(a)	0.83	0.87	0.87	9.56	0.39	0.41	0.28	0.62	0.00	0.00	0.00	80.0	270.0
8(b)	0.83	0.87	0.87	4.96	0.36	0.44	0.37	0.59	0.00	0.00	0.10	70.0	270.0
8(c)	0.83	0.87	0.87	4.93	0.00	0.23	0.15	0.61	0.00	0.00	0.00	50.0	270.0
8(d)	0.77	0.80	0.80	3.19	0.31	0.60	0.49	0.69	0.00	0.00	0.00	10.0	10.0
8(e)	0.77	0.80	0.80	8.73	0.40	0.47	0.31	0.68	0.00	0.00	0.00	10.0	0.0
8(f)	0.77	0.80	0.80	7.61	0.31	0.17	0.20	0.60	0.00	0.00	0.00	10.0	340.0
9(b) left	0.80	0.82	0.84	2.69	0.54	0.29	0.38	0.94	0.10	0.10	0.10	60.0	90.0
9(b) right	0.80	0.82	0.84	0.86	0.25	0.16	0.52	0.84	0.10	0.10	0.10	60.0	90.0
9(c) left	0.80	0.82	0.84	4.46	0.59	0.34	0.38	0.96	0.28	0.28	0.28	60.0	90.0
9(c) right	0.80	0.82	0.84	1.88	0.65	0.95	0.07	0.70	0.68	0.68	0.68	60.0	90.0
10(c)	0.67	0.71	0.80	4.89	0.46	0.22	0.38	0.76	0.30	0.30	0.30	60.0	90.0
10(d)	0.73	0.44	0.18	1.98	0.09	0.27	0.86	0.04	0.00	0.00	0.00	60.0	90.0
10(e)	0.67	0.71	0.80	4.89	0.46	0.22	0.38	0.76	0.30	0.30	0.30	30.0	120.0
10(f)	0.73	0.44	0.18	1.98	0.09	0.27	0.86	0.04	0.00	0.00	0.00	45.0	135.0
11(a)	0.96	0.79	0.79	1.98	0.09	0.27	0.86	0.04	0.00	0.00	0.00	60.0	90.0
11(b)	0.96	0.79	0.79	1.98	0.09	0.10	0.86	0.04	0.00	0.00	0.00	60.0	90.0
12(a)	0.80	0.82	0.84	4.10	0.14	0.90	0.22	0.86	0.00	0.00	0.00	45.0	0.0
12(b)	0.69	0.65	0.60	3.15	0.00	1.00	0.40	0.81	0.00	0.00	0.00	-10.0	240.0
14	0.80	0.82	0.84	1.04	0.27	0.96	0.49	0.91	0.10	0.10	0.10	90.0	0.0

\* The sun direction is indicated by using polar coordinates. The first and the second numbers indicate elevation and azimuth angles in degrees, respectively.