

## Abell 2199

Observed: No

OBJ	Type	Magnitude	RA (2000.0)	DEC
PGC 58067	Galaxy S	15.6	16 24 57.3	39 31 53
MAC 1625+3945	Galaxy	16.5	16 25 4.2	39 45 28
MAC 1625+3916	Galaxy	17	16 25 9.7	39 16 35
PGC 58090	Galaxy	16.5	16 25 26	39 30 30
PGC 58092	Galaxy S0/a	14.7	16 25 26.2	39 52 14
MAC 1625+3932	Galaxy	16	16 25 27.9	39 33 7
MAC 1625+3939	Galaxy	17.5	16 25 34	39 39 1
MAC 1625+3948	Galaxy	16.5	16 25 39	39 48 38
PGC 58098	Galaxy S?	15.3	16 25 41.8	39 36 0
MAC 1625+3901	Galaxy	17.5	16 25 46.1	39 1 58
MAC 1625+3953	Galaxy	16	16 25 50.3	39 53 25
MAC 1626+3925	Galaxy	17	16 25 59.2	39 25 12
MAC 1626+3940A	Galaxy	16.5	16 26 2.2	39 40 30
MAC 1626+3940B	Galaxy	17	16 26 4	39 41 0
MAC 1626+3937A	Galaxy	16.5	16 26 4.4	39 37 44
MAC 1626+3941	Galaxy	17	16 26 8.1	39 41 9
MAC 1626+3914	Galaxy	16.5	16 26 11	39 14 13
MAC 1626+3908	Galaxy	16	16 26 12.3	39 8 36
MAC 1626+3940C	Galaxy	16	16 26 14.1	39 40 3
PGC 58120	Galaxy I?	15.4	16 26 14.3	39 58 2
MAC 1626+3948	Galaxy	16.5	16 26 18.1	39 48 28
MAC 1626+3923	Galaxy	16	16 26 19.2	39 23 35
MAC 1626+3936	Galaxy	18	16 26 19.6	39 36 12
MAC 1626+3933	Galaxy	17.5	16 26 20.9	39 33 15
MAC 1626+3904A	Galaxy	16.5	16 26 23.5	39 4 57
MAC 1626+3914A	Galaxy	16.5	16 26 25.8	39 14 16
MAC 1626+3904	Galaxy	15.5	16 26 29.3	39 4 56
MAC 1626+3926	Galaxy	16.5	16 26 31.7	39 26 50
PGC 58125	Galaxy S	16.5	16 26 33.1	39 22 33
MAC 1626+3953	Galaxy	16	16 26 34	39 53 43
MAC 1626+3951	Galaxy	16	16 26 36.6	39 51 31
MAC 1626+3910	Galaxy	16	16 26 37	39 10 52
PGC 58132	Galaxy SB	15.6	16 26 37	39 7 39
MAC 1626+3937B	Galaxy	16	16 26 43.6	39 37 7
MAC 1626+3952	Galaxy	16	16 26 46.9	39 52 39
PGC 58152	Galaxy S	15.5	16 26 56.1	39 2 14
MAC 1626+3922	Galaxy	16.5	16 26 57.4	39 23 1
PGC 58158	Galaxy		16 26 59.8	39 19 11
PGC 58163	Galaxy Sa	15.2	16 27 3.6	39 31 40
MAC 1627+3925A	Galaxy	16.5	16 27 4.1	39 26 3
MAC 1627+3934A	Galaxy	16.5	16 27 9.2	39 35 15
MAC 1627+3918A	Galaxy	16	16 27 10.9	39 18 21
MAC 1627+3930	Galaxy	18	16 27 11	39 30 29
MAC 1627+3902	Galaxy	18	16 27 11.2	39 2 52
MAC 1627+3918B	Galaxy	18	16 27 14.9	39 18 51

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<b>OBJ</b>	<b>Type</b>	<b>Magnitude</b>	<b>RA (2000.0)</b>		<b>DEC</b>		
PGC 58173	Galaxy S	15.5	16 27	15.5	38 57	15	
MAC 1627+3922	Galaxy	16.5	16 27	16.5	39 23	5	
MAC 1627+3908	Galaxy	16	16 27	17.8	39 8	35	
MAC 1627+3915	Galaxy	16	16 27	20.3	39 15	31	
PGC 58181	Galaxy S	14.8	16 27	22.1	39 6	35	
MAC 1627+3904	Galaxy	18	16 27	23.8	39 4	17	
PGC 58186	Galaxy SBa	15.5	16 27	28.6	38 52	12	
MAC 1627+3934B	Galaxy	17	16 27	29.8	39 34	41	
MAC 1627+3925B	Galaxy	17	16 27	31.6	39 25	4	
PGC 58192	Galaxy		16 27	32.3	39 34	14	
PGC 58189	Galaxy C	17.1	16 27	34.4	39 6	5	
MAC 1627+3916A	Galaxy	16.5	16 27	36.7	39 16	10	
MAC 1627+3907	Galaxy	15.5	16 27	37	39 8	10	
MAC 1627+3853	Galaxy	17	16 27	37.3	38 53	49	
MAC 1627+4008	Galaxy	16.5	16 27	40.4	40 8	58	
MAC 1627+3923	Galaxy	16.5	16 27	40.8	39 23	47	
NGC 6158	Galaxy E/S0	14.7	16 27	40.9	39 22	59	
MAC 1627+4009	Galaxy	17	16 27	41	40 9	20	
MAC 1627+4012	Galaxy	16	16 27	41.1	40 12	55	
PGC 58195	Galaxy S	16.3	16 27	42.6	39 22	39	
PGC 58200	Galaxy		16 27	44	39 32	35	
MAC 1627+3913	Galaxy	17.5	16 27	53.6	39 13	56	
MAC 1627+3944	Galaxy	16.5	16 27	54.2	39 44	13	
PGC 58216	Galaxy S0	15.3	16 27	55.3	39 15	31	
MAC 1627+3916B	Galaxy	15.5	16 27	56	39 16	53	
PGC 58213	Galaxy		16 27	56	39 34	5	
PGC 58215	Galaxy E	15.5	16 27	57.4	39 15	12	
PGC 58212	Galaxy		16 27	58.7	39 36	18	
PGC 58214	Galaxy S?	15.8	16 27	59	39 18	10	
MAC 1627+3914	Galaxy	17	16 28	0.9	39 14	27	
MAC 1628+3901A	Galaxy	16.5	16 28	6.8	39 1	36	
PGC 58233	Galaxy		16 28	10.8	39 33	39	
PGC 58227	Galaxy SB?	15	16 28	11.6	39 49	18	
MAC 1628+3933	Galaxy	17.5	16 28	14	39 33	49	
PGC 58220	Galaxy		16 28	14.3	39 32	44	
MAC 1628+4006	Galaxy	16.5	16 28	16.1	40 6	57	
PGC 58232	Galaxy		16 28	17.4	39 36	31	
MAC 1628+3911	Galaxy	16.5	16 28	18.1	39 11	13	
MAC 1628+3957	Galaxy	16	16 28	19.8	39 57	33	
PGC 58245	Galaxy		16 28	20	39 30	41	
PGC 58234	Galaxy S?	15	16 28	20.1	38 48	44	
PGC 58243	Galaxy	15.5	16 28	23.5	39 36	21	
PGC 58244	Galaxy E	14.3	16 28	23.5	39 34	9	
PGC 58242	Galaxy		16 28	24.7	39 44	28	
MAC 1628+3944A	Galaxy	18	16 28	28.1	39 44	49	

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OBJ	Type	Magnitude	RA (2000.0)	DEC
PGC 58253	Galaxy S	17.4	16 28 29.1	39 31 28
PGC 58254	Galaxy	14.8	16 28 31	39 31 17
MAC 1628+3943	Galaxy	16.5	16 28 31.1	39 43 39
MAC 1628+3944B	Galaxy	17.5	16 28 31.5	39 44 17
MAC 1628+3906	Galaxy	17	16 28 31.9	39 6 12
PGC 58257	Galaxy		16 28 32.8	39 33 38
MAC 1628+3932A	Galaxy	16	16 28 34	39 32 56
PGC 58255	Galaxy		16 28 34.2	39 25 6
PGC 58261	Galaxy	15.2	16 28 35.2	39 29 36
AGC 2199	Galaxy - 8	13.9	16 28 36	39 31 0
MAC 1628+3932B	Galaxy	15.5	16 28 36.1	39 32 1
MAC 1628+3941	Galaxy	16	16 28 37.3	39 41 56
PGC 58282	Galaxy		16 28 37.5	39 26 48
PGC 58263	Galaxy Sc	14.3	16 28 38.5	39 5 18
MAC 1628+3934A	Galaxy	17	16 28 38.6	39 34 49
MAC 1628+3931	Galaxy	15.5	16 28 39.3	39 31 7
PGC 58260	Galaxy SB	15.4	16 28 39.4	40 7 26
PGC 58295	Galaxy		16 28 42.1	39 33 52
PGC 58259	Galaxy SB	15.7	16 28 42.3	40 7 26
PGC 58279	Galaxy S0	15.5	16 28 43	39 23 20
PGC 58277	Galaxy S	17.3	16 28 43.1	39 27 22
MAC 1628+3934B	Galaxy	17	16 28 43.3	39 34 9
MAC 1628+3934C	Galaxy	17	16 28 44.2	39 34 33
PGC 58262	Galaxy S	15.8	16 28 44.4	39 28 25
PGC 58275	Galaxy	16.1	16 28 44.5	39 30 56
PGC 58271	Galaxy	16.5	16 28 45.1	39 38 11
PGC 58276	Galaxy S	16.5	16 28 45.2	39 26 15
PGC 58274	Galaxy C	16.2	16 28 45.6	39 31 39
PGC 58281	Galaxy		16 28 45.6	39 38 2
PGC 58278	Galaxy S	16.1	16 28 46.2	39 27 47
PGC 58293	Galaxy	15.5	16 28 49.6	39 36 58
PGC 58280	Galaxy C	17	16 28 50	39 31 37
PGC 58296	Galaxy S?	15.4	16 28 50.1	39 50 6
MAC 1628+3945	Galaxy	16.5	16 28 51.3	39 45 23
PGC 58299	Galaxy Spiral	15.8	16 28 53.3	39 33 33
PGC 58294	Galaxy S	16.5	16 28 56.7	39 36 36
PGC 58301	Galaxy		16 28 57.3	39 42 30
MAC 1628+3919	Galaxy	15.5	16 28 58	39 19 9
PGC 58302	Galaxy		16 28 58	39 38 53
MAC 1628+3901	Galaxy	15.5	16 28 58.1	39 1 27
MAC 1628+3948	Galaxy	16	16 28 58.9	39 48 11
PGC 58309	Galaxy		16 28 59.8	39 41 5
PGC 58310	Galaxy C	16.9	16 29 3.7	39 16 28
MAC 1629+3940A	Galaxy	16.5	16 29 3.8	39 40 13
PGC 58314	Galaxy E	15.5	16 29 7.2	39 29 44

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OBJ	Type	Magnitude	RA (2000.0)	DEC
MAC 1629+3908	Galaxy	16	16 29 7.7	39 8 54
MAC 1629+3935	Galaxy	17	16 29 11.2	39 35 16
MAC 1629+3940B	Galaxy	16	16 29 12.8	39 40 15
MAC 1629+3910	Galaxy	16.5	16 29 13.6	39 10 55
MAC 1629+3934	Galaxy	17	16 29 14.1	39 35 0
PGC 58326	Galaxy	16	16 29 15	40 14 28
PGC 58325	Galaxy		16 29 16.5	39 24 4
PGC 58324	Galaxy		16 29 20	39 25 44
MAC 1629+3949	Galaxy	16	16 29 20.8	39 49 13
MAC 1629+3937A	Galaxy	17	16 29 22.1	39 37 15
MAC 1629+3937B	Galaxy	17	16 29 23.3	39 37 10
MAC 1629+3937C	Galaxy	17	16 29 26	39 37 15
MAC 1629+3848	Galaxy	16	16 29 29.1	38 48 44
MAC 1629+3950	Galaxy	16.5	16 29 33.2	39 50 53
MAC 1629+3954	Galaxy	16.5	16 29 33.2	39 54 10
MAC 1629+4014A	Galaxy	16	16 29 38.3	40 14 8
MAC 1629+3944	Galaxy	16	16 29 41.2	39 44 52
MAC 1629+3942	Galaxy	16	16 29 48.1	39 43 1
MAC 1629+3913	Galaxy	16	16 29 49.1	39 13 42
MAC 1629+4013	Galaxy	15.5	16 29 49.5	40 13 15
PGC 58357	Galaxy SB(r)b	14.5	16 29 51.2	39 46 0
MAC 1629+3956	Galaxy	15.5	16 29 56.7	39 56 36
MAC 1629+3931	Galaxy	16	16 29 59.4	39 31 42
MAC 1630+3956	Galaxy	16.5	16 30 6.5	39 56 33
MAC 1630+3932	Galaxy	16.5	16 30 11.5	39 33 5
MAC 1630+3950A	Galaxy	17	16 30 11.9	39 50 39
MAC 1630+3918A	Galaxy	16	16 30 12	39 17 53
MAC 1630+3949A	Galaxy	16.5	16 30 17	39 49 29
MAC 1630+3953	Galaxy	15.5	16 30 17.4	39 53 22
MAC 1630+3950B	Galaxy	17	16 30 19.4	39 50 43
MAC 1630+3948	Galaxy	16	16 30 20.2	39 48 15
MAC 1630+3918B	Galaxy	16	16 30 26.1	39 18 58
MAC 1630+3949B	Galaxy	16.5	16 30 26.1	39 49 46
MAC 1630+3949C	Galaxy	17	16 30 26.9	39 50 1
MAC 1630+3933	Galaxy	16.5	16 30 27.8	39 33 44
PGC 58382	Galaxy	15.6	16 30 28.8	39 37 33
MAC 1630+4009	Galaxy	16	16 30 31.1	40 9 24
MAC 1630+3923	Galaxy	15	16 30 32.5	39 23 6
MAC 1630+4001	Galaxy	17	16 30 32.5	40 1 10
PGC 58387	Galaxy S?	15	16 30 33.3	39 49 50
MAC 1630+3902	Galaxy	17	16 30 40.8	39 2 9
MAC 1630+3937	Galaxy	15.5	16 30 44.4	39 37 59
PGC 58399	Galaxy S	16.5	16 30 45.5	39 11 45
MAC 1630+3938	Galaxy	17	16 30 47.6	39 38 30
PGC 58402	Galaxy S	15.5	16 30 48.6	39 12 59

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Observed: No

<b>OBJ</b>	<b>Type</b>	<b>Magnitude</b>	<b>RA (2000.0)</b>	<b>DEC</b>
MAC 1630+3959	Galaxy	16.5	16 30 51.5	39 59 23
PGC 58405	Galaxy S0?	15.4	16 30 54	39 50 51
PGC 58414	Galaxy E	14.8	16 31 2.9	39 47 31
MAC 1631+3933	Galaxy	15	16 31 3.1	39 33 42
MAC 1631+3937	Galaxy	17	16 31 3.2	39 37 25
PGC 58413	Galaxy E	15.3	16 31 3.5	39 50 18
MAC 1631+3912	Galaxy	17	16 31 7	39 12 20
MAC 1631+3925	Galaxy	16	16 31 7.1	39 25 49
MAC 1631+3954	Galaxy	16.5	16 31 9.1	39 54 42
MAC 1631+3952	Galaxy	16	16 31 16.4	39 52 31
MAC 1631+3947A	Galaxy	16	16 31 17.8	39 47 40
PGC 58422	Galaxy C	15.6	16 31 19.2	39 9 2
MAC 1631+3944	Galaxy	16	16 31 19.4	39 44 38
MAC 1631+3947B	Galaxy	16	16 31 19.4	39 47 26
PGC 58421	Galaxy S	16.3	16 31 22.4	39 10 0
MAC 1631+3955	Galaxy	17.5	16 31 28.1	39 55 13
MAC 1631+3956	Galaxy	17	16 31 28.4	39 56 31
MAC 1631+3959A	Galaxy	16.5	16 31 31	39 59 33
PGC 58428	Galaxy C	15.5	16 31 31.7	39 53 51
MAC 1631+3959B	Galaxy	18	16 31 35.8	39 59 15
MAC 1632+3931	Galaxy	15.5	16 32 26.3	39 31 3

**Sub Total: 201**

Observed: Yes

<b>OBJ</b>	<b>Type</b>	<b>Magnitude</b>	<b>RA (2000.0)</b>	<b>DEC</b>
NGC 6166	Galaxy E+2 pe	12.8	16 28 38.5	39 33 5

**Sub Total: 1****Total: 202**