

KISO SURVEY FOR ULTRAVIOLET-EXCESS GALAXIES. I.

By

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(Received Dec. 28, 1983)

Abstract

Lists and identification charts of the ultraviolet-excess galaxies which have been detected on the multi-color plates taken with the Kiso Schmidt telescope are presented for the first 10 survey fields. Catalogued are 573 objects, down to the photographic magnitude of about 17, in the sky area of some 300 square degrees.

Key words: Ultraviolet-excess galaxies, Survey with Schmidt telescope.

1. Introduction

A survey for ultraviolet-excess (hereafter abbreviated as UVX) objects with the Kiso 105-cm Schmidt telescope of the Tokyo Astronomical Observatory has been carried out continuously since 1978. As already reported by Noguchi et al. (1980), Takase (1980), and Takase et al. (1983), the method of U, G and R triple images or U and R double images is used for the survey. Exposure times being so set that three or two images of early A-type stars may be equally bright, the galaxies of which U image is brighter than G and R images are regarded to be bluer than early A-type stars. We pick them up as UVX galaxies which are referred to the Kiso UVX galaxies (abbreviated as KUGs). This detection is made by visual inspections using magnifiers or zoom microscopes with enlarging factors from 10 to 25 times.

The pioneer of this kind of work was Haro (1956) who took U, B and V three-color photographs with the Tonantzintla 66-cm Schmidt telescope and discovered 44 blue galaxies. Later he and Luyten carried out a faint blue star survey by the same method with the Palomar 1.2-m Schmidt. Kinman and Hintzen (1981) found 18 compact UVX objects on one of the Haro-Luyten survey plates to be emission-line galaxies through follow-up observations with a slit spectrograph. Mitchell et al. (1982) detected 412 UVX galaxies from the same three-color Palomar plate covering an area of 30 square degrees centered on Kapteyn Selected Area 28. Schmidt and Green (1983) isolated 92 UVX QSOs through a slit spectroscopy of the candidate UVX objects picked up from the U and B two-color films which were taken with the Palomar 46-cm Schmidt telescope.

Markarian et al. (1982 and references therein) have published lists of 1500 galaxies with ultraviolet continuum, which are called Markarian galaxies (hereafter abbreviated as MKGs). These were detected on the objective prism spectrograms taken with the Byurakan 1-m Schmidt telescope. Galaxies of which blue-violet portion of the spectra is brighter or more extended in length than their red-yellow portion (two portions being separated by the so-called green dip),

are picked up as MKGs. So the selection criterion of them are quite the same as that of KUGs.

Our survey plan of KUGs is to cover either sky areas where five or more MKGs are included or those along the circle of the galactic longitude of $l=180^\circ$. Up to the end of 1983, more than 100 such fields, or some 3000 square degrees of the sky have been photographed. The Kiso plate has the scale of 62.5/mm and the field area is about 10^5 mm^2 that is some 30 square degrees.

This paper, the first of the series, presents the catalogue and identification charts of 573 KUGs which were detected from 10 plates covering about 300 square degrees of the sky field.

2. The Catalogue

The data of the 10 plates are shown in Table I-1.

Table I-1. *The Data of Plates*

Area No.*	Plate No.	Observation Date**	Plate Center			No. of KUGs	No. of MKGs	
			α (1950.0)	δ	l			b
A 0035	KL2525	1979 Dec. 21	7 ^h 00 ^m	+75 ^o	140 ^o	+27 ^o	22	8
A 0180	KL2002	1979 Jan. 22	11 44	+55	142	+60	35	13
A 0343	KL1557	1978 Apr. 4	8 00	+40	181	+30	26	3
A 0345	KL1445	1978 Feb. 26	8 48	+40	182	+39	74	1
A 0364	KL2168	1979 Apr. 21	16 24	+40	53	+44	97	5
A 0391	KL2524	1979 Dec. 20	2 40	+35	147	-22	53	6
A 0409	KL1927	1978 Dec. 25	8 40	+35	188	+37	59	2
A 0413	KL1936	1978 Dec. 26	10 00	+35	190	+53	107	3
A 0426	KL2121	1978 Mar. 25	14 20	+35	60	+69	30	9
A 0462	KL2369	1979 Oct. 26	2 20	+30	145	-29	70	7
Total							573	57

* The numbering system is explained in the *Kiso Information Bulletin*, Vol. 1, Nos. 1 and 2, 1980.

** Beginning of the exposure in Japan Standard Time which is UT+9^h.

The lists of KUGs are given in Table I-2a through Table I-2j for 10 fields. The data included in the catalogue are as follows:

Column 1: Running number according to the right ascension.

Column 2: KUG-name composed of the values of right ascension and declination

Columns 3 and 4: Right ascension and declination for the epoch 1950.0. These were determined by the method reported by Noguchi et al. (1980).

Column 5: Morphological type of the classification scheme presented by Takase et al. (1983). Following is the meaning of each designation.

Ic : Irregular with clumpy HII regions

Ig : Irregular with a conspicuously giant HII region

Pi : Pair of interacting components

Pd : Pair of detached components

Sk : Spiral with knots of HII regions along arms

Sp : Spiral with peculiar bar and/or nucleus

C : Compact

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The type is assigned through visual inspections of both Kiso three-color photograph and Palomar Sky Survey chart. When the type is not certainly assigned a colon (:) is attached, and when unclassifiable a question mark (?) is given.

Column 6: Image size (major diameter \times minor diameter) in minutes of arc, roughly measured on the Palomar Sky Survey blue print with a 15 times magnifier.

Column 7: Apparent magnitude taken from the catalogue listed in the last column. When two or more catalogue names are given, the value of the first one is adopted. For the objects which no other catalogue name is given, roughly estimated magnitude on the Palomar Sky Survey blue print is indicated with a colon (:).

Column 8: Degree of UVX estimated from the Kiso three image plate. H, M and L mean high, medium and low, respectively. For further explanation see Takase et al. (1983).

Column 9: Names given in other catalogues. The abbreviated notations used here have the following correspondence to those adopted in MOL (abbreviation of the list compiled by Dixon and Sonneborn, 1980).

A: ARP, H: HARO, I: IC, M: MCG, MK: MKG, N: RNGC, U: UGC, V: VV,
Z: ZWG, nZ: nZW ($n=1, 2, \dots, 8$)

Although MKGs No. 701 and later are not listed in MOL, they are also included here according to the original lists of Markarian et al. (1982 and the references therein). The reference of VV given in MOL should be replaced by Vorontsov-Velyaminov (1977) here. MGC number is omitted when ZWG or UGC number is given, and ZWG number is deleted when UGC number is given.

We wish to acknowledge the assistance given to this work by the staff members of the Kiso Observatory. Special thanks go to Dr. H. Maehara and Mr. T. Noguchi for their continuous collaborations in putting forward the project of detecting the UVX objects with the Kiso Schmidt telescope, to Dr. S. Okamura for his help in the data processing with the computer, and to Messrs. T. Aoki and T. Soyano and Miss A. Sasaki for their services in reproducing the finding charts.

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Table I-2a. *List of KUGs (A0035)*

NO.	KUG-NAME	R.A. (1950.0)	DEC.	MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
1	0621+743	6 21 29.8	74 19 54	Sp	1.8X1.1	15.0	M	U3460,MK4
2	0625+744	6 25 3.9	74 27 57	Sk	1.7X1.5	14.9	L	U3471
3	0635+756	6 35 24.4	75 40 19	Ig	0.7X0.3	17	H	MK5
4	0642+728	6 42 0.0	72 48 32	Sp:	1.3X0.3	15.7	L	U3527
5	0642+738	6 42 0.0	73 49 0	Sp:	0.3X0.2	16.5:	M	
6	0645+744	6 45 44.0	74 29 10	Sk	0.6X0.4	14.8	L	U3547,I450,MK6
7	0646+774	6 46 0.7	77 28 10	Sk	1.1X0.9	14.8	L	U3548,MK701
8	0654+761	6 54 51.4	76 10 57	?	0.4X0.3	17:	L	
9	0707+736	7 7 24.6	73 40 6	Ig	0.7X0.3	16	M	M+12-7-34
10	0709+729	7 9 50.3	72 56 6	Sk:	0.4X0.2	16.5:	M	
11	0710+741	7 10 53.7	74 6 1	C	0.3X0.3	16	H	MK377
12	0711+739	7 11 44.3	73 57 22	Sk	0.8X0.3	15.7	L	U3762
13	0713+745	7 13 29.4	74 33 27	C	0.2X0.2	17	H	MK380
14	0722+726	7 22 19.4	72 40 34	Ic	0.8X0.4	13.9	H	U3838,V141A,MK7,72153
15	0723+722	7 23 39.9	72 14 2	Ic	0.8X0.6	13.8	H	U3852,MK8
16	0725+726	7 25 5.6	72 37 19	Sp	0.9X0.7	15.0	H	U3864,V141
17	0727+755	7 27 52.1	75 35 28	Sp	0.6X0.3	15.6	M	Z349.006
18	0730+745A	7 30 22.6	74 33 25	Pi	0.7X0.3	14.8	H	U3906
19	0730+745B	7 30 27.7	74 33 56	Pi	0.9X0.3	14.8	M	Z330.044
20	0730+741	7 30 38.0	74 6 24	Sk:	0.6X0.3	15.5	L	Z331.004
21	0730+738	7 30 52.3	73 49 27	Sk	2.5X0.3	14.9	L	U3909
22	0738+756	7 38 18.6	75 36 16	?	0.3X0.2	16:	M	

Notes on individual galaxies given in Table I-2a (A0035)

- 0621+743: North-east arm is very blue while the nucleus is not so blue.
 0635+756: A giant complex of HII region is at the south end.
 0642+738: Spiral with a stellar nucleus?
 0645+744: Sd/dm according to UGC.
 0646+774: Conspicuous knot of HII region is at the northern portion of the ringed arm.
 0707+736: A giant HII region is at the north-west end.
 0710+741: Quasar candidate according to Markarian.
 0713+745: Quasar candidate according to Markarian.
 0722+726: Several complexes of HII region form double lines.
 0723+722: Several conglomerations of HII region form nearly parallel lines.
 0725+726: Very blue spotty nucleus and several knots on arms are seen. Interacting with a galaxy located at the south.
 0730+745A and B: Both of interacting two galaxies are slug shaped.

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Table I-2b. *List of KUGs (A0180)*

NO.	KUG-NAME	R.A. (1950.0)	DEC.	MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
1	1128+564A	11 28 31.2	56 24 46	C	0.2X0.2	16.5	L	MK174
2	1128+564B	11 28 31.6	56 28 2	C	0.2X0.2	16.2	H	LB2033
3	1128+563	11 28 44.8	56 20 31	C:	0.2X0.2	16:	M	
4	1129+542	11 29 18.6	54 12 8	Sp	0.3X0.2	16:	L	
5	1129+541	11 29 34.9	54 10 48	Sp	0.9X0.4	14.8	M	U6518
6	1129+532	11 29 55.2	53 13 36	Pi	1.1X1.7	14.7	L	U6527,MK176,V150,A322
7	1130+553	11 30 37.8	55 20 56	Sp	0.3X0.2	16	M	MK177
8	1131+534	11 31 4.9	53 24 8	Sk	2.5X1.8	12.2	L	U6547,N3729,A214
9	1132+558	11 32 53.4	55 48 34	Sp:	0.6X0.3	15.3	L	Z268.059
10	1133+548	11 33 2.8	54 48 8	Ic	0.2X0.1	11.5	H.	U6565,N3738,A234
11	1133+551	11 33 58.0	55 7 22	Sp	0.4X0.3	15	L	MK41,I2943
12	1134+545	11 34 4.8	54 34 24	Sk	3.9X2.0	12.1	L	U6579,N3756
13	1137+552	11 37 11.4	55 14 22	C:	0.2X0.2	16	L	MK184
14	1139+575	11 39 34.1	57 34 44	Sp:	0.4X0.2	16	L	M+10-17-44
15	1140+529	11 40 46.6	52 59 18	Sk	1.0X0.6	15.0	L	U6690,N3829
16	1140+537	11 40 52.2	53 46 41	C	0.2X0.2	16.5	H	MK1451
17	1141+553A	11 41 5.3	55 19 31	Sk	0.7X0.4	15.3	L	Z268.075,MK1452
18	1141+553B	11 41 32.5	55 18 39	Sp	1.7X1.1	14.2	M	U6706,V320
19	1142+558	11 42 45.1	55 48 17	C	0.2X0.2	16	L	MK1455
20	1143+563	11 43 11.0	56 22 47	Sp	0.8X0.4	15.6	L	Z268.080
21	1144+573	11 44 21.0	57 22 13	Sp	0.8X0.3	15.3	M	Z292.028
22	1144+527A	11 44 41.2	52 46 0	?	0.2X0.2	16	M	MK1456
23	1144+527B	11 44 42.3	52 43 40	?	0.4X0.2	15.6	L	Z268.083,MK1457
24	1144+562	11 44 54.4	56 14 42	Sk	1.9X1.1	12.6	L	U6765,N3888,MK188
25	1145+527	11 45 2.3	52 43 38	?	0.3X0.2	16	L	MK1458
26	1148+556	11 48 0.5	55 37 53	Sk	2.8X2.8	14.2	L	U6813,N3913
27	1148+553	11 48 28.6	55 21 26	Pi:	2.2X1.1	13.4	L	U6823,N3921,MK430,A224,1228
28	1148+566	11 48 47.3	56 41 6	?	0.6X0.2	15.5	M	Z292.039
29	1149+522	11 49 34.4	52 16 5	?	0.4X0.2	16	L	M+9-20-18
30	1152+549	11 52 48.2	54 56 7	?	1.3X0.2	15.6	L	U6894
31	1153+554	11 53 52.8	55 24 18	Sk	2.2X1.7	11.6	M	U6918,N3982
32	1154+534	11 54 14.2	53 26 19	Sp	1.8X0.6	14.1	M	U6923
33	1156+545	11 56 24.1	54 31 3	Sk:	0.6X0.4	15	L	MK433
34	1159+566	11 59 37.6	56 38 35	?	0.7X0.3	15.2	L	Z292.060
35	1204+554	12 4 23.5	55 27 27	Sp:	0.7X0.4	15	H	M+9-20-96

Notes on individual galaxies given in Table I-2b (A0180)

- 1128+564A: R image is rather strong for a MKG.
1128+564B: Very high degree of UVX.
1129+541: Deformed blue bar.
1129+532: Triple system forming a chain with one more galaxy.
1131+534: Θ shaped barred spiral with blue knotty arms.
1133+548: Clumpy irregular with an extended halo.
1134+545: Splended S galaxy with knotty arms.
1137+552: R image is rather strong for a MKG.
1140+529: Eye shaped spiral.
1141+553A: Bright nucleus and rather faint arms.
1141+553B: SBm type with a deformed bar and unsymmetric arms.
1143+563: S shaped SB galaxy.
1144+573: Bar is in east-west direction while the surrounding part elongates in north-east to south-west direction.
1144+527A: Double nuclei.
1144+527B: Seyfert features are expected according to Markarian.
1144+562: Spiral galaxy with slightly unsymmetric arms.
1148+556: Spiral galaxy with an extended halo.
1148+553: Very peculiar galaxy with an offset nucleus and long filamentary arms.

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Table I-2c. *List of KUGs (A0343)*

NO.	KUG-NAME	R.A. (1950.0)	DEC.	MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
1	0747+407	7 47 54.6	40 43 26	C	0.3X0.2	15.5:	M	
2	0750+379	7 50 55.0	37 58 38	Sp:	0.6X0.2	16:	H	
3	0752+393	7 52 3.6	39 19 7	Sp	0.6X0.6	15.5	H	Z207.005, MK382
4	0754+399	7 54 54.0	39 58 6	Sk:	1.1X0.2	15.6	M	U4120
5	0756+423	7 56 57.0	42 19 51	Sk:	2.5X0.3	15.5	M	U4148
6	0757+396	7 57 10.7	39 36 46	Sp	0.4X0.3	16:	M	
7	0757+399	7 57 13.1	39 58 40	Ic:	0.4X0.2	15.6	M	Z207.017, N2495, MK383
8	0759+408	7 59 19.5	40 49 3	Sk	1.8X0.6	15.2	H	U4176
9	0801+403	8 1 11.0	40 20 31	Sk	0.9X0.7	14.6	L	U4200
10	0801+386	8 1 58.0	38 36 28	Sk:	0.7X0.2	15.5:	L	
11	0804+393	8 4 4.0	39 20 22	Sk	1.5X1.3	13.5	M	U4227, N2528
12	0804+416	8 4 19.3	41 39 50	Sk:	0.4X0.2	16:	M	
13	0804+391	8 4 21.0	39 8 58	?	0.6X0.4	14.4	L	U4229, MK622
14	0806+392	8 6 0.3	39 16 52	Sp:	0.3X0.2	16:	M	
15	0806+417	8 6 12.0	41 44 31	Ig	0.4X0.4	15.5	H	Z207.038
16	0806+406	8 6 32.5	40 37 2	Sk:	0.8X0.2	16:	M	
17	0806+402	8 6 40.0	40 15 7	Sk:	1.5X0.4	15.4	L	U4252
18	0807+392	8 7 10.1	39 17 11	Ic:	0.6X0.4	15.5	H	Z207.041
19	0808+371	8 8 26.2	37 9 16	C	0.2X0.2	16.5:	H	
20	0809+408	8 9 2.0	40 53 36	Sp:	0.3X0.3	15.5:	H	
21	0809+387	8 9 8.1	38 46 26	Sk	0.6X0.4	15.7	L	Z207.044
22	0810+418	8 10 25.0	41 48 5	Sk	0.8X0.3	15.2	L	Z207.045
23	0811+387	8 11 17.1	38 42 10	C:	0.3X0.2	16:	L	
24	0812+389	8 12 28.7	38 58 3	?	0.3X0.2	16:	L	
25	0813+418	8 13 29.4	41 53 10	Sp:	0.4X0.2	16:	M	
26	0815+409	8 15 25.3	40 59 12	Pd	0.4X0.2	15.7	H	Z207.055

Notes on individual galaxies given in Table I-2c (A0343)

- 0747+407: Slightly elongated compact galaxy.
- 0750+379: Lenticular shape with a blue nucleus.
- 0752+393: Seyfert type galaxy according to Markarian.
- 0754+399: Very thin edge-on spiral.
- 0757+396: Spiral with a bright bar.
- 0757+399: Probably an irregular with clumpy HII regions.
- 0759+408: Spiral with a small bulge.
- 0801+403: Face-on spiral.
- 0801+386: Edge-on spiral.
- 0804+393: Spiral galaxy with a blue nucleus and knotty arms.
- 0804+391: Bright bulge with a spheroidal halo. Face-on S0 galaxy?
- 0806+392: Spiral with a blue nucleus.
- 0806+417: A giant complex of HII region is at the south-east end of the galaxy.
- 0807+392: Triangular shape.
- 0809+408: Spiral with a hot-spot nucleus?
- 0815+409: A triple system of which the middle component is very blue.

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Table I-2d. *List of KUGs (A0345)*

NO.	KUG-NAME	R.A. (1950.0)	DEC.	MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
1	0833+416	8 33 46.8	41 37 55	Sk:	0.7X0.4	15.1	L	Z208.028
2	0834+417	8 34 0.4	41 43 26	Ic:	0.6X0.3	15.4	M	Z208.030
3	0834+414	8 34 8.3	41 29 23	Sk	0.4X0.3	15.5	L	Z208.031
4	0835+387	8 35 27.9	38 45 6	?	0.2X0.2	17:	L	
5	0835+410	8 35 55.0	41 4 4	Ic:	0.4X0.2	16:	M	
6	0836+411	8 36 14.4	41 7 33	Sk:	0.3X0.2	16.5:	L	
7	0836+403	8 36 21.5	40 21 40	Sk:	0.2X0.2	17:	L	
8	0836+402	8 36 31.0	40 16 24	Sp	0.3X0.2	16.5:	M	
9	0836+399	8 36 41.6	39 56 57	C:	0.2X0.2	16.5:	M	
10	0836+415	8 36 54.1	41 34 36	?	0.3X0.3	16.5:	L	
11	0836+424	8 36 57.8	42 29 11	Sk	0.3X0.3	17:	M	
12	0837+409	8 37 0.1	40 58 25	Sp	0.6X0.3	16:	M	
13	0837+421	8 37 22.0	42 6 29	Pi:	0.9X0.2	16.0:	M	U4518
14	0837+426	8 37 34.0	42 39 22	Sk	0.6X0.3	16	M	M+7-18-35
15	0840+414	8 40 41.3	41 25 34	Sk:	0.2X0.2	17:	M	
16	0840+402	8 40 42.5	40 13 27	?	0.2X0.1	17:	M	
17	0840+418	8 40 56.1	41 53 54	Ig	0.9X0.3	14.1	H	U4556
18	0841+407	8 41 48.7	40 44 38	Sk	0.9X0.3	15.2	L	Z208.043
19	0841+392	8 41 55.6	39 16 29	Sk	0.2X0.2	16.5:	M	
20	0842+415	8 42 24.2	41 34 39	Sk	0.3X0.3	17:	L	
21	0842+386	8 42 31.8	38 38 24	Sk:	0.3X0.2	16.5:	L	
22	0842+400	8 42 48.2	40 0 45	Pi:	0.4X0.2	16:	L	
23	0843+396	8 43 37.0	39 40 57	Sk:	0.4X0.2	16.5:	L	
24	0844+395	8 44 42.0	39 33 36	C:	0.2X0.2	16.5:	M	
25	0844+389	8 44 45.2	38 59 41	?	0.3X0.2	16.5:	M	
26	0844+382	8 44 46.3	38 15 15	Sk	0.8X0.3	15.0	L	Z180.006, I2400
27	0845+377	8 45 1.9	37 45 29	Sp	0.4X0.2	16:	M	
28	0845+409	8 45 9.7	40 56 26	C:	0.3X0.2	16.5:	M	
29	0845+405	8 45 10.1	40 33 59	?	0.3X0.2	16:	M	
30	0845+379	8 45 29.6	37 56 53	Sk:	0.3X0.2	17:	L	
31	0845+397	8 45 29.7	39 47 40	Sk:	0.3X0.3	17:	L	
32	0846+410	8 46 8.5	41 2 40	Sk:	0.6X0.2	15.7	L	Z208.049
33	0846+393	8 46 16.6	39 23 46	Sk	0.9X0.7	15.3	L	Z208.051
34	0846+410	8 46 18.2	41 1 29	Sk:	0.6X0.2	16.5:	L	
35	0846+399	8 46 18.7	39 56 2	Sk:	0.7X0.2	15.5	L	
36	0846+396	8 46 22.1	39 39 14	?	0.2X0.1	17:	M	
37	0846+404	8 46 29.7	40 25 58	Sk	0.8X0.4	15.5	L	Z208.053
38	0847+405	8 47 47.4	40 30 22	Sp	0.4X0.3	15.7	M	Z208.059
39	0848+397	8 48 11.2	39 46 59	C	0.2X0.1	16.5:	M	
40	0848+394	8 48 20.6	39 27 25	Pi	0.4X0.2	15.5:	M	
41	0848+393	8 48 27.1	39 18 36	?	0.2X0.1	17.5:	L	
42	0848+402	8 48 35.0	40 13 42	Sp	0.3X0.2	17:	M	
43	0848+414	8 48 41.4	41 25 51	Sk:	0.6X0.1	16.5:	L	
44	0849+386	8 49 23.0	38 40 52	C:	0.3X0.1	16.5:	H	
45	0849+408	8 49 25.7	40 52 21	Sk	0.9X0.6	15.0	L	Z208.062
46	0849+426	8 49 39.1	42 36 45	Sk	0.7X0.6	14.1	L	U4642
47	0850+405	8 50 45.5	40 33 16	Sk	0.4X0.3	15.6	L	Z208.066
48	0851+397	8 51 32.4	39 43 46	Sk	0.9X0.4	13.9	L	U4664, N2691, MK391
49	0851+396	8 51 39.3	39 38 6	Sp:	0.2X0.1	17:	M	
50	0852+391	8 52 4.7	39 10 41	Sp:	0.2X0.2	15.5:	M	

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Table I-2d. *List of KUGs (A0345-continued)*

NO.	KUG-NAME	R.A. (1950.0)	DEC.	MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
51	0852+377	8 52 7.3	37 45 11	Sk:	0.2X0.2	17:	L	
52	0852+407	8 52 14.4	40 42 15	Ig:	0.3X0.2	16:	L	
53	0852+373	8 52 21.9	37 23 37	Sp	0.4X0.2	16.5:	M	
54	0852+400A	8 52 53.3	40 3 40	Ic:	0.3X0.2	16:	H	
55	0852+388	8 52 57.0	38 49 57	?	0.3X0.2	17:	L	
56	0852+400B	8 52 57.2	40 0 16	?	0.2X0.1	16.5:	L	
57	0853+391	8 53 17.3	39 8 12	?	0.2X0.2	16.5:	L	
58	0853+392	8 53 22.4	39 14 54	Sk:	0.6X0.3	16:	L	
59	0854+423A	8 54 15.4	42 23 5	Sk	0.6X0.2	15.7	L	2209.010
60	0854+423B	8 54 24.0	42 20 58	Sk:	0.6X0.2	16.5:	L	
61	0854+396	8 54 26.1	39 41 50	Sk:	1.3X0.3	16.0	L	U4689
62	0854+409	8 54 46.9	40 56 53	Sp:	0.3X0.2	16.5:	M	
63	0855+425	8 55 24.4	42 32 6	Sk	0.9X0.2	16:	L	
64	0855+394	8 55 46.6	39 24 22	Sk:	3.9X0.2	15.5	L	U4704
65	0858+424	8 58 29.6	42 29 29	C:	0.2X0.2	16.5:	M	
66	0858+388	8 58 34.7	38 48 0	Sk:	0.4X0.3	16:	L	
67	0859+406	8 59 48.3	40 37 55	Sk:	0.6X0.6	14.9	L	2209.017
68	0859+420	8 59 58.0	42 2 10	Sp:	0.8X0.2	15.7	M	2209.018
69	0900+398	9 0 55.5	39 52 29	Sp:	0.4X0.3	16.5:	M	
70	0901+422	9 1 24.5	42 14 27	Pi	0.3X0.2	15.5	H	
71	0901+424	9 1 34.0	42 27 17	Sk	0.6X0.6	15.6	M	2209.023
72	0901+414	9 1 52.0	41 25 50	C:	0.2X0.2	16:	H	
73	0902+412	9 2 28.7	41 16 32	Sp	0.4X0.2	15.7	M	2209.024
74	0903+420	9 3 26.3	42 0 55	Pi	0.7X0.3	15.6	H	2209.026

Notes on individual galaxies given in Table I-2d (A0345)

- 0833+416: Bulge is rather red while the surrounding portion is blue.
 0834+417: Several complexes of HII region are seen.
 0834+414: Almost face-on spiral.
 0835+410: Surface brightness is high all over the spheroidal shape galaxy.
 0837+409: Bright blue bar.
 0837+421: Slug shaped.
 0840+418: A giant complex of HII region is at the north-east end of the galaxy.
 0842+400: Interacting pair?
 0843+396: Edge-on spiral?
 0844+382: Fairly conspicuous knot of HII region is at the west edge of the galaxy.
 0845+405: Might be a planetary nebula.
 0846+396: Pair with a fainter galaxy located at the south.
 0847+405: Blue nucleus is somewhat eccentrically located.
 0848+394: Two components of the pair are in the declination direction. The size given in the Table covers both components.
 0849+408: Spiral with a small nucleus and heavy arms.
 0849+426: North-east arm is well extended and blue.
 0851+397: Spiral with a heavy nucleus.
 0852+391: Pair with a galaxy at the north.
 0852+407: A conspicuous HII region complex is at the south-west end of the galaxy.
 0852+400A: U image shows a triangular shape suggesting the Ic type.
 0855+394: Very thin edge-on galaxy.
 0901+422: Brighter component is very blue while the other is only slightly blue.
 0901+414: Might be a clumpy irregular type.
 0903+420: South-west component is especially blue. The size given in the Table covers two components.

Kiso UV-Excess Galaxies

Table I-e. List of KUGs (A0364)

NO.	KUG-NAME	R.A. (1950.0)	DEC.	MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
1	1609+383	16 9 23.6	38 23 18	Sp	1.7X0.3	15.0	L	U10257
2	1610+388	16 10 9.3	38 49 34	C	0.3X0.2	16.5:	H	
3	1611+374	16 11 13.2	37 24 52	Sp	0.7X0.6	15.5	M	Z196.005
4	1612+394	16 12 10.6	39 27 38	Sp	0.3X0.2	16:	H	
5	1612+396	16 12 14.1	39 39 21	Sp	0.3X0.3	16:	M	
6	1613+396	16 13 5.2	39 38 12	Sk:	1.1X0.4	15.7	L	Z223.052
7	1613+377	16 13 6.7	37 43 44	Sk:	0.4X0.2	16:	L	
8	1614+380	16 14 15.7	38 1 53	Sk:	0.7X0.3	15.5	L	Z196.019
9	1614+419	16 14 26.0	41 56 21	Sp	0.4X0.3	15.5:	H	
10	1614+425	16 14 32.8	42 31 19	Pd	0.2X0.2	15.2	H	Z223.053
11	1614+398	16 14 39.4	39 51 3	?	0.3X0.2	17:	M	
12	1614+384	16 14 45.2	38 24 46	Sp	0.4X0.3	15.5:	M	
13	1614+404	16 14 56.8	40 27 45	Sk	0.6X0.4	15.7	L	Z223.054
14	1616+382	16 16 12.7	38 12 47	C	0.2X0.2	16:	M	
15	1616+402	16 16 28.9	40 13 10	Sk	1.1X0.8	15.4	L	U10330
16	1617+406	16 17 25.8	40 37 34	Sp:	0.3X0.2	16:	L	
17	1617+380	16 17 26.7	38 1 52	Sp:	0.4X0.3	16:	M	
18	1617+417	16 17 51.7	41 46 51	Sp:	0.4X0.2	16	L	M+7-33-58
19	1617+379	16 17 55.0	37 55 32	Sk	0.6X0.4	15.4	M	Z196.040,N6119
20	1618+378	16 18 1.0	37 53 35	lc:	0.6X0.4	14.3	M	U10343,N6120,1Z141
21	1618+410	16 18 10.1	41 5 53	Sk:	0.4X0.3	16:	L	
22	1618+402	16 18 30.1	40 16 12	Sp:	0.4X0.3	16:	M	
23	1618+421	16 18 30.2	42 11 8	?	0.3X0.2	16.5:	L	
24	1618+415	16 18 57.9	41 35 4	?	0.6X0.2	16:	L	
25	1619+400	16 19 11.3	40 1 34	?	0.4X0.2	16:	M	
26	1619+399	16 19 12.5	39 58 41	Sp:	0.4X0.2	16:	L	
27	1619+400	16 19 21.8	40 2 5	Sp	0.6X0.4	15.6	M	Z224.002
28	1619+396	16 19 45.1	39 40 11	Sp:	0.3X0.2	16:	M	
29	1619+408	16 19 48.3	40 51 53	lc:	0.3X0.3	16:	H	
30	1619+401	16 19 57.1	40 6 34	C	0.3X0.2	16:	M	
31	1620+390A	16 20 7.4	39 2 54	Sp	1.0X1.0	14.2	L	U10356,N6131A
32	1620+390B	16 20 15.6	39 1 55	Sp	0.4X0.2	15.5:	M	N6131B
33	1620+405	16 20 18.3	40 33 51	?	0.6X0.4	15.1	L	U10357
34	1620+384	16 20 49.5	38 28 57	C	0.3X0.3	14.9	H	Z196.050
35	1621+378	16 21 4.1	37 53 36	Sp:	0.3X0.2	15.5:	L	
36	1621+406	16 21 12.1	40 36 42	?	0.4X0.2	15.5	L	MK880
37	1621+405	16 21 16.5	40 31 36	Sp:	0.4X0.3	15.5:	M	
38	1621+394	16 21 23.9	39 25 41	Sp:	0.8X0.3	15	M	M+7-34-10
39	1621+413	16 21 25.1	41 20 53	Pi:	0.5X0.3	16:	L	
40	1621+402	16 21 37.7	40 15 34	Sk:	0.4X0.2	16:	L	
41	1621+417	16 21 43.4	41 45 57	Sk	0.8X0.3	15.3	L	Z224.011
42	1621+393	16 21 56.6	39 18 53	Sk:	0.3X0.3	15.7	M	Z224.012
43	1622+411	16 22 5.3	41 11 48	C	0.2X0.2	15.4	M	Z224.014,3Z77,MK699
44	1622+402	16 22 16.0	40 14 1	Sp:	0.4X0.3	16:	H	
45	1622+408	16 22 25.5	40 51 32	C	0.2X0.2	16:	H	
46	1622+387	16 22 27.4	38 43 53	Sk	0.4X0.3	15.6	L	Z196.060
47	1622+411	16 22 58.8	41 8 0	Pi	0.4X0.3	15.5:	H	1Z148
48	1623+396	16 23 13.9	39 38 40	Sk	0.6X0.3	15.6	L	Z224.016
49	1623+406	16 23 20.5	40 38 20	?	0.6X0.2	16:	L	
50	1623+381	16 23 26.7	38 6 11	lc:	0.3X0.2	15:	H	

Notes on individual galaxies given in Table I-2e (A0364)

- 1612+396: Blue stellar nucleus.
- 1614+419: Blue stellar nucleus.
- 1614+425: East component is compact and very blue while west one is extended and rather red.
- 1614+384: Double nuclei both of which are blue.
- 1618+378: Egg shaped.
- 1619+400: Eye shaped.
- 1620+390A: Barred spiral with peculiar bar and arm structures.
- 1620+384: Compact galaxy with a plume extending to the north-west-west direction.

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Table I-2e. List of KUGs (A0364-continued)

NO.	KUG-NAME	R.A. (1950.0)	DEC.	MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
51	1623+396	16 23 42.7	39 37 15	?	0.2X0.2	16.5:	L	
52	1624+404	16 24 7.5	40 27 26	Ic:	0.4X0.3	15.3	M	Z224.021, MK881
53	1624+411	16 24 24.5	41 9 43	Sp	0.4X0.3	15.5:	M	
54	1624+400	16 24 31.8	40 4 44	Ic	0.4X0.4	15.2	M	Z224.023
55	1624+389	16 24 48.8	38 54 55	?	0.3X0.2	16:	M	
56	1624+394	16 24 49.5	39 29 13	Sp:	0.3X0.3	16.5:	L	
57	1624+409	16 24 57.3	40 58 40	Sp	0.3X0.2	16:	M	
58	1624+402	16 24 59.0	40 17 31	?	0.3X0.2	16.5:	M	
59	1625+426	16 25 5.3	42 40 34	?	0.6X0.2	16:	L	
60	1625+391	16 25 12.1	39 8 54	Sp:	0.6X0.3	15.5:	M	
61	1625+413	16 25 13.6	41 22 21	Sk	0.8X0.8	15.2	L	Z224.026
62	1625+419	16 25 30.4	41 58 29	Sp	0.3X0.3	16:	M	
63	1625+410	16 25 30.6	41 1 2	?	0.4X0.2	16:	L	
64	1625+390	16 25 31.4	39 3 56	Sp:	0.3X0.2	15.5:	M	
65	1625+392A	16 25 38.3	39 13 14	Sk:	0.8X0.6	14.8	L	Z224.028
66	1625+392B	16 25 50.4	39 12 40	C:	0.4X0.2	16	M	MK882
67	1625+407	16 25 55.9	40 46 53	Sk:	0.7X0.4	15.7	L	Z224.030
68	1626+412	16 26 22.7	41 15 3	C	0.2X0.2	16:	M	
69	1626+413	16 26 48.2	41 19 43	Ic	0.6X0.4	14.3	H	U10407
70	1626+402	16 26 57.6	40 14 0	Sk:	0.8X0.4	14.9	L	Z224.041
71	1627+402	16 27 0.2	40 13 57	Sk:	0.6X0.3	16:	L	
72	1627+395	16 27 2.2	39 34 45	Sk	0.8X0.6	15.4	L	Z224.040
73	1627+399	16 27 7.8	39 56 39	Sk	0.6X0.6	15.5	M	Z224.044
74	1627+396	16 27 10.4	39 40 8	Sp	0.3X0.3	15.7	M	Z224.045
75	1627+421	16 27 13.6	42 10 5	?	0.3X0.2	16.5:	L	
76	1627+413	16 27 20.6	41 23 34	Sk	1.1X0.9	14.8	L	Z224.046
77	1627+403	16 27 33.5	40 20 58	?	0.4X0.2	16:	L	
78	1627+385	16 27 41.9	38 31 38	Sp:	0.4X0.3	16:	L	
79	1628+407	16 28 36.6	40 42 20	Sp:	0.4X0.4	15.6	M	Z224.051
80	1628+408	16 28 57.2	40 48 55	Sp	0.4X0.2	16:	M	
81	1629+406	16 29 0.8	40 38 10	Sk:	0.4X0.4	16:	L	
82	1629+405A	16 29 31.0	40 31 39	?	0.4X0.2	16:	L	
83	1629+405B	16 29 35.7	40 32 6	Sk	0.2X0.2	16:	L	
84	1629+406	16 29 53.9	40 39 54	Sk	0.8X0.4	15.1	L	Z224.070, N6184
85	1629+415	16 29 58.3	41 35 47	Sk	0.6X0.4	15.6	L	Z224.071
86	1630+373	16 30 29.8	37 20 21	Sk	0.4X0.2	15.7	L	Z196.074
87	1631+374	16 31 2.3	37 27 49	Sk:	0.8X0.2	15.6	M	Z196.075
88	1632+393A	16 32 3.1	39 22 32	?	0.4X0.1	16:	M	
89	1632+393B	16 32 6.7	39 21 58	Sk:	0.4X0.4	14.6	M	Z224.072, I4612
90	1632+374	16 32 20.5	37 26 36	Sk:	0.7X0.3	15.6	L	Z196.080
91	1632+414	16 32 22.7	41 27 4	Sk:	0.3X0.2	15.7	L	Z224.073
92	1633+402	16 33 11.2	40 17 49	C	0.3X0.3	15.5:	L	Z196.073
93	1634+401	16 34 29.5	40 10 20	Ic:	0.3X0.3	15:	H	
94	1634+392	16 34 47.4	39 13 24	?	0.3X0.3	16.5:	M	
95	1635+373	16 35 46.8	37 23 45	Sp	1.7X0.3	15.4	M	U10477
96	1635+409	16 35 54.8	40 58 6	Pi:	1.1X0.2	16.0:	M	U10479
97	1636+420	16 36 36.0	42 2 15	Pd:	1.0X0.2	15.5	L	U10491, A125, Z1962

- 1621+413: Seems to be a double system.
 1622+411: East component is very blue and distorted. The listed size covers both components.
 1623+381: Looks like a clumpy irregular.
 1624+404: Complex structure.
 1624+411: Blue nucleus with an annular ring.
 1625+413: Nearly face-on spiral with a small nucleus.
 1625+392B: Faint jet is ejected to the west direction.
 1626+413: Clumpy irregular with at least five conglomerations of HII region.
 1634+401: U image suggest that it may be a clumpy irregular.
 1635+409: Two edge-on galaxies are interacting. Southern component is bluer.
 1636+420: Comet-like shaped galaxy with a head and long curved tail, and a small irregular galaxy which is rather red, form a pair.

Kiso UV-Excess Galaxies

Table I-2f. *List of KUGs (A0391)*

NO.	KUG-NAME	R.A. (1950.0)	DEC.	MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
1	0227+329	2 27 14.7	32 54 38	Sp	0.9X0.2	15.3	H	U1975
2	0227+369	2 27 44.5	36 54 59	Ic	1.8X0.9	12.0	H	U1983,N949
3	0228+326	2 28 50.7	32 40 44	?	0.6X0.2	15.5:	H	
4	0229+357	2 29 16.6	35 42 38	Ig:	0.6X0.1	15:	H	
5	0230+352	2 30 1.0	35 17 16	Sk	0.6X0.4	15.6	M	Z523.057
6	0230+348	2 30 6.3	34 48 30	Sp	0.4X0.3	15.7	H	Z523.058
7	0230+325	2 30 17.1	32 31 38	Sp	0.3X0.3	15.2	H	U2022
8	0230+333	2 30 54.0	33 22 26	C	0.2X0.2	16:	H	5Z254
9	0231+364	2 31 27.2	36 26 34	Ig	0.7X0.2	15.5:	H	
10	0231+343	2 31 30.9	34 18 31	Sp	0.3X0.2	15.5:	M	
11	0231+346	2 31 34.5	34 39 4	Ig	0.8X0.3	15.0	H	Z523.064
12	0231+342	2 31 42.1	34 16 48	Sp	0.6X0.2	15.7	H	Z523.065
13	0232+372	2 32 17.0	37 16 5	Ic	0.7X0.7	14.6	H	U2065
14	0232+373	2 32 23.9	37 18 7	Sk	1.7X0.3	14.8	L	U2067
15	0232+374	2 32 31.6	37 25 18	Sp	2.4X1.1	13.2	M	U2069
16	0233+349	2 33 29.4	34 54 25	Ic:	0.3X0.2	15.5:	H	
17	0233+343	2 33 35.3	34 23 26	Sk	0.7X0.6	15.4	L	U2090
18	0233+376	2 33 47.9	37 39 23	Sp:	0.4X0.3	15.5	H	Z523.075
19	0233+369	2 33 51.6	36 58 7	Sp:	0.3X0.2	16.5:	M	
20	0234+334	2 34 30.4	33 25 18	Sp	1.0X0.6	15.6	L	U2100
21	0234+342	2 34 37.5	34 12 56	Sk	1.0X0.4	13.9	L	U2105,MK1050
22	0234+368	2 34 48.3	36 50 58	?	0.3X0.2	16.5	L	
23	0234+340	2 34 54.9	34 1 45	Sk	1.3X1.0	14.5	L	U2109
24	0235+353	2 35 53.4	35 23 11	Sp	0.7X0.2	15.5	M	Z523.080
25	0236+372	2 36 16.6	37 17 35	C:	0.2X0.2	16:	M	
26	0236+358	2 36 32.0	35 52 1	Ic	0.4X0.4	14.0	H	U2143
27	0237+350A	2 37 36.9	35 5 45	Sk	0.4X0.3	15.7	M	Z523.085,5Z2268
28	0237+350B	2 37 40.1	35 4 59	C	0.2X0.2	16	H	MK1051
29	0237+366	2 37 56.0	36 40 49	Sp:	0.4X0.3	16.5:	L	
30	0238+356	2 38 4.8	35 38 43	Sp:	0.8X0.3	15.7	M	U2166
31	0238+364	2 38 9.9	36 24 46	Sp:	0.4X0.2	15.5:	M	
32	0239+345	2 39 31.9	34 33 2	Sp	1.1X0.8	13.5	M	U2178,N1050
33	0239+360	2 39 41.0	36 0 27	Sp:	0.4X0.2	15.7	L	Z524.003
34	0239+338	2 39 48.3	33 48 5	Ic:	0.3X0.3	16:	H	
35	0240+322	2 40 14.7	32 15 17	Ic	0.9X0.5	15.2	H	N1061,Z505.039
36	0240+371	2 40 23.3	37 7 47	Sk	2.4X2.4	11.8	L	U2193,N1058
37	0240+345	2 40 49.3	34 32 51	Sp	0.4X0.3	16:	M	
38	0240+331	2 40 50.0	33 8 16	Sp	0.9X0.4	15.0	M	U2206
39	0241+335	2 41 22.8	33 31 26	Sp	1.0X0.3	15.4	M	U2212
40	0241+338	2 41 54.5	33 53 3	Sp	0.6X0.2	16:	H	
41	0242+349	2 42 9.5	34 58 42	Ic:	1.1X0.2	14.8	H	U2223
42	0243+348	2 43 30.1	34 49 49	Sp	0.6X0.4	15.2	H	Z524.015
43	0244+347	2 44 28.9	34 42 2	Ic:	0.7X0.4	15.6	M	Z524.019
44	0244+371	2 44 31.0	37 10 37	Sp:	0.3X0.2	16:	H	
45	0245+338	2 45 18.6	33 53 44	Sp	0.3X0.2	16:	H	
46	0246+362	2 46 2.2	36 15 24	Ic:	0.6X0.2	15.4	H	Z524.023
47	0246+351	2 46 7.8	35 7 40	Sk:	0.8X0.3	15.5	L	U2288,MK1056
48	0246+338	2 46 35.1	33 49 56	Pi	0.3X0.2	16	H	MK1057
49	0246+347	2 46 46.9	34 46 53	Sk:	0.7X0.3	15.4	L	Z524.026,MK1058
50	0246+352	2 46 56.9	35 17 5	?	0.3X0.2	16:	M	

Table I-2f. *List of KUGs (A0391-continued)*

NO.	KUG-NAME	R.A. (1950.0)	DEC.	MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
51	0249+365	2 49 15.2	36 31 50	C	0.2X0.2	15.4	L	Z524.030, MK1061, 52284
52	0249+350	2 49 51.9	35 2 42	C	0.2X0.2	16:	H	
53	0252+335	2 52 41.9	33 33 53	Sp	1.7X0.4	15.0	M	U2392

Notes on individual galaxies given in Table I-2f (A0391)

- 0227+369: At least five conglomerations of HII region are seen.
0229+357: A giant HII region is at the south-east end of the galaxy.
0230+352: Spiral with a stellar nucleus.
0231+364: A giant HII region is at the north-west end of the galaxy.
0231+346: A giant HII region is at the east end of the galaxy.
0232+374: A star superposes at just north-east of the nucleus of the galaxy.
0234+368: The nucleus is located eccentrically.
0234+340: Superposed by two stars.
0237+350A: Inverse S shaped spiral arm is clearly seen.
0239+345: Central portion and both ends of the bar are all blue.
0240+322: Might be a spiral with a hot-spot nucleus.
0240+371: Several knots of HII region are at the nucleus and on arms.
0242+349: Elongated galaxy with clumpy knots of HII region.
0243+348: Blue nucleus is eccentrically located.
0244+347: Triangular shape.
0245+338: Spiral with a very blue nucleus.
0249+350: Double nuclei?
0252+335: Spiral with a blue stellar nucleus.

Kiso UV-Excess Galaxies

Table I-2g. List of KUGs (A0409)

NO.	KUG-NAME	R.A. (1950.0)	DEC.	MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
1	0825+348	8 25 43.3	34 49 6	Sp:	1.0X0.2	14.6	M	U4434
2	0828+361	8 28 14.8	36 8 12	C	0.2X0.2	16.5:	H	
3	0829+352	8 29 54.6	35 17 10	Sk:	0.2X0.2	16:	L	
4	0831+337	8 31 10.3	33 46 49	?	0.3X0.2	16:	L	
5	0831+324	8 31 31.4	32 24 42	?	0.2X0.2	16.5:	L	
6	0831+374	8 31 56.7	37 26 19	Sp	0.7X0.4	15.1	H	Z179.013,I2385
7	0832+348	8 32 32.2	34 49 14	Sk	0.3X0.3	16:	L	
8	0832+364	8 32 52.0	36 24 28	?	0.2X0.2	16.5:	M	
9	0833+330	8 33 42.4	33 1 36	Sp	0.6X0.2	15.5:	M	
10	0834+354	8 34 6.2	35 24 37	?	0.2X0.2	16.5:	L	
11	0834+350	8 34 7.3	35 2 54	Sp:	0.2X0.2	16:	L	
12	0834+340	8 34 14.6	34 0 59	?	0.3X0.2	16.5:	L	
13	0834+365	8 34 37.3	36 35 21	Sp:	0.2X0.2	16.5:	M	
14	0835+370	8 35 3.2	37 1 9	Pi:	0.3X0.2	16:	H	
15	0835+337	8 35 10.3	33 45 15	Sk:	0.2X0.2	15.6	L	Z179.015
16	0835+331	8 35 12.7	33 7 12	Sp	0.3X0.3	15.5:	M	
17	0835+360	8 35 22.5	36 5 32	Sp	0.4X0.2	15.5:	M	
18	0835+364	8 35 38.9	36 28 15	Pd:	0.2X0.2	16:	L	
19	0835+342A	8 35 46.8	34 17 17	Pi	0.3X0.2	16:	L	
20	0835+342B	8 35 47.2	34 17 40	Pi	0.6X0.2	16:	M	
21	0836+342	8 36 20.6	34 17 42	Sp:	0.2X0.2	15.5:	L	
22	0837+347	8 37 16.7	34 46 10	Sk	0.2X0.2	15.5:	L	
23	0838+360	8 38 0.0	36 4 46	Sk:	0.2X0.2	16:	L	
24	0838+364	8 38 14.0	36 25 13	?	0.3X0.2	15.5:	L	
25	0838+328	8 38 26.7	32 49 27	Sk	0.3X0.2	15.5:	L	
26	0838+362	8 38 31.7	36 15 18	Sp	0.6X0.4	17:	L	
27	0839+364	8 39 11.9	36 26 23	Sk:	0.4X0.2	16:	L	
28	0840+328	8 40 36.7	32 53 4	?	0.2X0.2	16.5:	L	
29	0840+348	8 40 59.2	34 53 55	Sk	1.5X1.3	13.1	L	U4555,N2649
30	0841+327	8 41 3.1	32 47 24	?	0.2X0.2	16.5:	L	
31	0841+325	8 41 27.4	32 33 15	C	0.2X0.2	16:	M	
32	0842+346	8 42 18.8	34 36 5	Sp	0.6X0.4	14.7	M	Z179.025
33	0842+331	8 42 19.0	33 7 52	Sk	0.6X0.2	15.5:	L	
34	0842+369	8 42 19.1	36 54 49	Sp:	0.4X0.2	16.5:	H	
35	0842+371	8 42 26.1	37 7 2	C:	0.6X0.6	13.8	M	U4572,MK626
36	0842+321	8 42 45.8	32 8 36	C:	0.2X0.2	16.5:	L	
37	0842+343A	8 42 48.4	34 20 33	Sk	0.7X0.7	16.5:	L	
38	0842+343B	8 42 53.0	34 22 15	Sp:	0.3X0.2	16:	L	
39	0843+357	8 43 19.8	35 43 52	Sp:	0.3X0.2	15.5:	L	
40	0843+366	8 43 23.3	36 37 23	C:	0.4X0.2	15.6	H	Z180.002,MK627
41	0843+321	8 43 47.2	32 6 30	Sp:	0.3X0.2	15.7	L	Z150.028
42	0844+345	8 44 1.3	34 33 26	Sk:	0.3X0.2	15.5:	L	
43	0844+339	8 44 33.5	33 57 26	?	0.2X0.1	17:	L	
44	0844+336	8 44 51.8	33 39 51	Sp:	0.7X0.2	15.5:	L	
45	0845+354	8 45 0.2	35 26 38	Pi	0.6X0.3	15.7	M	Z180.009
46	0845+369	8 45 1.0	36 57 57	Ic:	0.6X0.4	15.2	M	Z180.010
47	0845+358	8 45 15.7	35 48 2	Sk	0.3X0.3	16:	L	
48	0845+374	8 45 30.8	37 24 14	Sk	0.4X0.3	14.8	L	Z180.011,I2405
49	0846+363	8 46 6.0	36 18 20	Sk	0.6X0.6	14.3	L	U4614
50	0847+352	8 47 2.9	35 15 48	Sk	0.9X0.4	13.6	L	U4621

Table I-2g. *List of KUGs (A0409-continued)*

NO.	KUG-NAME	R.A. (1950.0)	DEC.	MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
51	0847+366	8 47 29.4	36 39 19	Sp	0.4X0.4	15.4	H	Z180.015'
52	0847+365	8 47 46.0	36 31 20	Sk:	0.6X0.3	15.5	L	Z180.016
53	0848+325	8 48 0.3	32 33 47	?	0.3X0.2	16:	L	
54	0849+335	8 49 59.9	33 34 3	?	0.2X0.2	16.5:	L	
55	0850+365	8 50 14.7	36 32 2	Sk:	0.4X0.2	15.5:	L	
56	0851+328A	8 51 16.6	32 52 18	Sk	1.7X1.3	14.9	L	U4658
57	0851+366	8 51 19.6	36 38 33	Sk:	1.0X0.3	15.1	L	U4661
58	0851+328B	8 51 24.3	32 49 34	Sp	0.6X0.2	15.3	M	Z180.020
59	0852+373	8 52 21.7	37 23 36	Sp	0.3X0.2	16:	H	

Notes on individual galaxies given in Table I-2g (A0409)

- 0825+348: Peculiar shape galaxy which is probably a barred spiral.
0831+374: Hot-spot nucleus?
0835+370: Double galaxies?
0835+342B: Counterarm extends northward.
0842+369: Spiral with blue hot-spot nucleus?
0843+366: Fairly elongated compact galaxy?
0845+354: Two spirals are interacting.
0845+369: Triangular shaped.
0851+366: Small companion is located at the east side of the galaxy.

Kiso UV-Excess Galaxies

Table I-2h. *List of KUGs (A0413)*

NO.	KUG-NAME	R.A. (1950.0)	DEC.	MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
1	0946+324	9 46 44.4	32 27 15	Sk:	0.8X0.7	14.2	L	U5259,N3011,MK409
2	0946+348	9 46 58.6	34 50 59	?	0.4X0.2	16:	L	
3	0947+338	9 47 23.1	33 49 5	Sp:	0.3X0.2	15.6	M	Z182.024,N3013
4	0947+359	9 47 33.7	35 59 56	C:	0.2X0.2	16:	H	
5	0947+366	9 47 52.9	36 40 48	?	0.2X0.2	15.5:	L	
6	0948+369	9 48 15.3	36 54 37	C	0.2X0.2	16.5:	H	
7	0948+331	9 48 30.6	33 10 36	Sp	1.3X0.8	14.7	M	U5287
8	0949+350	9 49 0.3	35 1 32	Sp:	0.4X0.2	16:	M	
9	0949+367	9 49 52.8	36 44 25	?	0.2X0.2	16:	L	
10	0949+357	9 49 55.0	35 44 41	?	0.3X0.2	16.5:	L	
11	0950+339	9 50 2.7	33 59 19	Sk:	0.4X0.2	16:	L	
12	0950+370	9 50 6.3	37 4 38	?	0.3X0.2	16:	M	
13	0950+363	9 50 18.4	36 19 17	Sp	0.8X0.7	14.9	M	Z182.02
14	0950+346A	9 50 32.9	34 38 36	Sp	0.4X0.3	15.5:	M	
15	0950+351	9 50 33.3	35 7 7	Sp:	0.3X0.2	16:	L	
16	0950+349	9 50 42.8	34 59 42	Sk:	0.4X0.2	15.5:	L	
17	0950+346B	9 50 47.7	34 41 7	Sk:	0.4X0.4	16	L	
18	0950+367	9 50 53.4	36 47 21	Sk:	0.4X0.2	16:	L	
19	0951+375	9 51 13.5	37 32 7	Sk:	1.1X0.2	15.6	L	U5315
20	0951+367	9 51 13.5	36 46 20	Sk:	0.4X0.2	16:	L	
21	0951+343	9 51 14.6	34 22 40	Pi:	0.6X0.4	15.4	L	Z182.030
22	0951+336A	9 51 17.9	33 37 37	Sp:	0.6X0.3	15.7	L	Z182.029
23	0951+336B	9 51 26.4	33 37 23	Sp:	0.3X0.2	16:	L	
24	0951+360	9 51 33.2	36 1 11	?	0.3X0.3	16:	M	
25	0951+369	9 51 40.1	36 54 51	?	0.4X0.2	15.6	L	Z182.032
26	0952+356	9 52 10.3	35 36 55	?	0.3X0.2	16:	L	
27	0952+352	9 52 19.3	35 15 33	Sk:	0.3X0.3	16:	L	
28	0952+376	9 52 30.3	37 39 33	Sk:	0.4X0.3	16:	L	
29	0952+327	9 52 35.5	32 47 27	Sp:	0.3X0.2	16:	L	
30	0952+373	9 52 38.1	37 23 28	Sp:	0.4X0.2	16:	L	
31	0953+372	9 53 21.9	37 15 35	Sp:	0.9X0.2	15.3	M	Z182.043
32	0953+357	9 53 27.9	35 45 55	Sp:	1.0X0.2	16:	L	
33	0953+368	9 53 43.8	36 53 1	?	0.2X0.2	16:	L	
34	0953+373	9 53 51.3	37 23 2	?	0.2X0.2	16:	L	
35	0954+342	9 54 18.7	34 12 55	Sk	0.6X0.6	15.3	M	Z182.045,I2521
36	0954+372	9 54 33.1	37 15 5	Sp:	0.3X0.2	16:	M	
37	0954+363	9 54 35.0	36 18 20	?	0.7X0.3	15.5:	M	
38	0954+338	9 54 36.2	33 51 31	Sk:	0.6X0.4	14.8	L	Z182.047,I2524,MK411
39	0954+365	9 54 36.5	36 30 17	Sp:	0.2X0.1	16:	L	
40	0954+371	9 54 36.8	37 10 56	?	0.3X0.2	16.5:	M	
41	0955+340	9 55 2.7	34 0 35	Sk:	0.4X0.4	16.5:	L	
42	0955+324	9 55 4.2	32 28 43	Ic:	0.4X0.2	15.5	M	MK412
43	0955+364	9 55 17.3	36 29 52	?	0.4X0.3	16:	L	
44	0955+338	9 55 25.3	33 48 30	?	0.3X0.3	16.5:	L	
45	0955+326	9 55 25.8	32 36 30	Sp	2.0X0.8	12.7	M	U5351,N3067
46	0955+350	9 55 49.8	35 1 32	Sp	0.4X0.2	16:	M	
47	0956+368	9 56 12.7	36 51 38	Sk:	0.5X0.3	16:	L	
48	0956+369	9 56 19.0	36 57 38	?	0.3X0.2	16:	L	
49	0956+345	9 56 39.5	34 33 38	Sk:	0.6X0.3	16:	L	
50	0957+336	9 57 1.5	33 39 20	Sk:	0.3X0.3	16:	L	

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Table I-2h. List of KUGs (A0413-continued)

NO.	KUG-NAME	R.A. (1950.0)	DEC.	MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
51	0957+363	9 57 18.2	36 22 26	Sk:	0.4X0.3	16:	L	
52	0957+377	9 57 40.4	37 43 37	?	0.4X0.2	16:	L	
53	0958+376	9 58 5.2	37 40 9	Sp:	0.5X0.2	16:	M	
54	0958+371	9 58 7.9	37 9 46	Sp:	0.4X0.2	16:	H	
55	0958+373	9 58 15.3	37 18 39	Sp:	0.3X0.2	15.5:	H	
56	0958+333	9 58 46.2	33 22 41	Pi:	1.7X1.1	14.9	M	U5393
57	0958+367	9 58 49.8	36 44 27	Sp:	1.3X0.2	16.5:	M	U5394
58	0959+345	9 59 18.5	34 34 11	Sp:	0.3X0.2	16.5:	M	
59	0959+340	9 59 19.3	34 5 56	Sk:	0.7X0.3	15.3	L	Z182.062
60	0959+370	9 59 24.2	37 1 30	?	0.2X0.1	16.5:	L	
61	0959+354	9 59 55.9	35 28 25	?	0.6X0.3	16.5:	L	
62	1000+339A	10 0 3.7	33 56 5	Sk:	0.8X0.1	16.5:	L	
63	1000+335	10 0 17.8	33 31 56	Sk:	0.3X0.2	16:	L	
64	1000+374	10 0 22.2	37 26 20	?	0.3X0.2	16:	M	
65	1000+372	10 0 26.5	37 16 49	?	0.3X0.2	16:	L	
66	1000+339B	10 0 35.5	33 59 53	Sk	0.6X0.4	15.4	L	Z182.066
67	1000+336	10 0 54.7	33 38 38	Sp:	0.4X0.2	15.2	M	Z182.068
68	1001+373	10 1 39.7	37 19 10	Sk	0.4X0.4	15.5:	L	M+6-22-67
69	1002+366	10 2 22.1	36 40 40	Sk:	0.4X0.2	16:	L	
70	1002+372	10 2 32.1	37 17 8	Sk	0.4X0.3	15.5:	L	
71	1003+367	10 3 13.1	36 47 1	Sp:	0.3X0.2	16:	L	
72	1003+331	10 3 36.2	33 11 26	Sp	1.5X0.2	15.3	M	U5446
73	1003+324	10 3 50.7	32 28 32	Sk:	0.8X0.2	15.5	L	Z153.019
74	1004+353	10 4 8.5	35 21 3	Sk:	0.3X0.3	16:	L	
75	1004+332	10 4 17.0	33 16 20	Sp	2.5X0.4	14.4	M	U5452,N3118
76	1004+329	10 4 17.4	32 55 11	?	0.4X0.2	16.5:	L	
77	1004+375	10 4 22.0	37 30 23	?	0.3X0.2	16:	L	
78	1004+357	10 4 33.1	35 42 51	?	0.3X0.2	16.5:	L	
79	1004+321	10 4 52.9	32 8 20	Sp:	0.3X0.2	16:	H	
80	1004+327	10 4 53.0	32 44 0	?	0.4X0.2	16.5:	L	
81	1004+345	10 4 55.1	34 33 35	Sk	0.9X0.7	14.6	L	Z182.076,12542
82	1004+321	10 4 58.0	32 7 28	?	0.2X0.2	16.5:	M	
83	1005+357	10 5 28.7	35 42 2	Sk	0.3X0.2	16:	L	
84	1005+335	10 5 34.7	33 35 30	Sp:	0.4X0.4	15.1	M	Z182.078,12544
85	1005+365	10 5 37.5	36 34 26	Sp:	0.4X0.3	16:	L	
86	1005+350	10 5 43.0	35 3 54	?	0.2X0.1	16.5:	M	
87	1005+360	10 5 58.1	36 5 25	?	0.2X0.1	16:	L	
88	1005+361	10 5 59.7	36 6 10	?	0.2X0.1	16:	L	
89	1006+366	10 6 3.0	36 38 38	Sk:	0.2X0.2	15.5:	L	
90	1006+322	10 6 4.2	32 15 22	Sp:	0.4X0.2	16:	M	
91	1006+327	10 6 7.4	32 44 14	Sk	1.3X1.1	15.0	M	U5474
92	1006+363	10 6 12.8	36 21 24	?	0.2X0.1	16:	L	
93	1006+324A	10 6 53.4	32 27 28	C:	0.2X0.2	16:	M	
94	1006+324B	10 6 55.4	32 28 5	?	0.3X0.2	16:	L	
95	1007+367	10 7 13.2	36 42 40	Sp:	0.3X0.2	15.6	L	Z183.002,12549
96	1007+354	10 7 35.8	35 29 6	Sp	0.5X0.3	16:	M	
97	1007+362	10 7 37.9	36 15 22	Sk:	0.3X0.3	15.5:	L	
98	1007+325	10 7 46.9	32 33 24	Sp:	0.4X0.3	15.0	M	Z183.003
99	1008+342	10 8 53.2	34 14 24	?	0.2X0.1	16.5:	L	
100	1009+365	10 9 7.0	36 31 28	Sp	0.3X0.2	16:	M	

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Table I-2h. *List of KUGs (A0413-continued)*

NO.	KUG-NAME	R.A. (1950.0)			DEC.			MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
101	1010+355	10	10	10.5	35	31	47	Sk:	0.6X0.3	15.5	L	Z183.004, MK414
102	1010+347	10	10	23.2	34	42	38	Sp:	0.3X0.2	15.5:	M	
103	1010+362	10	10	32.2	36	12	15	Sk	0.6X0.4	15.5	L	Z183.006
104	1010+359	10	10	32.8	35	57	59	?	0.4X0.2	16.5:	M	
105	1011+345	10	11	16.1	34	35	30	?	0.3X0.2	16:	L	
106	1011+360	10	11	34.9	36	5	27	?	0.4X0.3	16:	L	
107	1012+356	10	12	2.3	35	39	39	?	0.6X0.3	16:	L	

Notes on individual galaxies given in Table I-2h (A0413)

- 0948+331: Blue bar and distorted arm.
- 0950+363: Peculiar nucleus.
- 0951+343: Double galaxy?
- 0952+376: Accompanied by a small galaxy at the north-west.
- 0953+372: Edge-on barred spiral with a blue bar?
- 0954+363: Peculiar fish shaped galaxy surrounded by several similar galaxies.
- 0955+340: Diffuse disk.
- 0955+338: Diffuse circular disk.
- 0955+326: Spiral with a split nucleus.
- 0958+373: Blue core with faint halo.
- 0958+333: Small south-east component is bluer.
- 1000+374: Diffuse disk.
- 1002+372: S shaped spiral arm is seen.
- 1003+331: Edge-on spiral with a blue nucleus.
- 1005+335: Spiral with a blue arm and an eccentrically located nucleus.
- 1007+354: Spiral with a peculiar nucleus.

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Table I-2i. *List of KUGs (A0426)*

NO.	KUG-NAME	R.A. (1950.0)	DEC.	MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
1	1407+346	14 7 43.2	34 36 8	Ic:	0.2X0.2	15.5:	M	
2	1407+377	14 7 55.7	37 47 13	Sp:	0.6X0.6	15.1	M	Z191.059,I4380
3	1410+359	14 10 0.2	35 57 24	Sk:	0.6X0.2	15:	L	
4	1410+347	14 10 21.4	34 46 58	Ic:	0.3X0.2	16.5	M	MK467
5	1411+367	14 11 41.2	36 44 0	C	0.1X0.1	15.5:	L	
6	1413+347	14 13 12.2	34 45 13	C	0.2X0.2	16.5	M	MK671
7	1413+364	14 13 37.6	36 24 32	Sk:	0.6X0.4	15.7	L	Z191.071
8	1414+330	14 14 41.3	33 2 2	Sp	0.7X0.4	16:	M	
9	1416+359	14 16 3.3	35 54 27	Sp:	0.9X0.2	16:	L	
10	1416+345	14 16 12.9	34 35 45	C	0.2X0.1	17	M	MK469
11	1417+365	14 17 8.3	36 35 22	?	0.2X0.2	16.5	L	MK675
12	1417+372	14 17 13.0	37 14 22	Sk:	0.6X0.3	15.7	L	Z192.001
13	1417+363	14 17 30.2	36 21 49	Sk	0.8X0.7	15.2	L	U9173,N5572
14	1417+336	14 17 45.5	33 39 10	Sp:	0.3X0.2	16.5:	M	
15	1417+358	14 17 55.7	35 52 57	Sk:	1.0X0.2	16	L	M+6-32-1
16	1419+352	14 19 15.6	35 17 46	Sp:	0.3X0.3	16.5:	L	
17	1419+358	14 19 31.8	35 52 37	Sk:	0.7X0.2	16:	L	
18	1420+373	14 20 24.4	37 20 58	Sk:	0.9X0.4	14.5	L	U9208,N5596,MK470
19	1420+330	14 20 46.6	33 4 39	Sk	0.9X0.6	14.5	L	U9214,MK471
20	1421+330	14 21 17.5	33 5 55	C	0.1X0.1	16.5:	H	MK679
21	1421+342	14 21 34.9	34 14 7	Sp	0.7X0.6	14.4	M	U9221
22	1421+366	14 21 35.6	36 38 55	Sp:	0.3X0.2	16.5:	L	
23	1423+327	14 23 11.6	32 42 26	Pi	0.6X0.4	14.2	M	U9241
24	1425+372	14 25 58.4	37 12 52	Sk:	0.4X0.2	15.5:	L	
25	1426+326	14 26 16.5	32 37 3	Sp	0.9X0.6	14.8	L	Z192.025
26	1426+361	14 26 55.7	36 9 57	Sp:	0.6X0.2	15.6	L	Z192.029,MK472
27	1429+334	14 29 18.2	33 27 3	Sp	0.6X0.2	14.6	M	Z192.035
28	1430+369A	14 30 23.1	36 56 35	?	0.4X0.2	16:	L	
29	1430+369B	14 30 42.8	36 55 28	Sk	0.6X0.4	15.5	L	Z192.039
30	1433+353	14 33 13.9	35 20 13	?	0.4X0.4	14.5	L	M+6-32-70

Notes on individual galaxies given in Table I-2i (A0426)

- 1407+346: Triangular shape.
- 1407+377: Bright condensation is eccentrically located.
- 1414+330: Split bar.
- 1417+365: R image is rather bright for a MKG.
- 1417+363: Face-on spiral. MKG 677 is a rather red object neighboring to the north-east of this galaxy.
- 1420+373: R image is rather bright for a MKG.
- 1420+330: \odot shaped spiral.
- 1421+342: Barred spiral with a hot-spot nucleus.
- 1421+366: Split bulge?
- 1423+327: Double galaxy.
- 1426+326: Bulge (or bar) is eccentrically located.
- 1429+334: Box shaped bulge is surrounded by a thin envelope.
- 1430+369A: Dense but not so blue condensation is at the east end of the galaxy.
- 1433+353: Dense condensation surrounded by a faint halo.

Kiso UV-Excess Galaxies

Table I-2j. List of KUGs (A0462)

NO.	KUG-NAME	R.A. (1950.0)	DEC.	MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
1	0207+294	2 7 24.2	29 26 44	?	0.2X0.2	16.5:	L	
2	0208+324	2 8 2.6	32 29 42	Sk:	0.9X0.2	15.6	L	Z504.025
3	0208+312	2 8 38.6	31 16 32	Sk:	1.1X0.4	14.7	L	U1682
4	0208+302	2 8 55.0	30 17 23	Sp:	0.4X0.3	15.7	M	Z504.027,52199
5	0209+308A	2 9 7.6	30 51 0	Sk:	0.3X0.3	15.5:	M	
6	0209+308B	2 9 18.0	30 51 26	Sp:	0.4X0.2	15.5:	H	52200
7	0209+289A	2 9 31.1	28 57 44	?	0.2X0.1	16.5:	H	
8	0209+289B	2 9 32.7	28 57 46	Sp:	0.3X0.2	16:	M	
9	0209+289C	2 9 34.9	28 56 56	Sp:	0.4X0.2	16:	M	
10	0209+274	2 9 49.9	27 28 33	Sp:	0.3X0.2	15.5:	L	
11	0211+286	2 11 1.6	28 38 42	Sp:	0.4X0.3	15.6	H	Z504.033
12	0211+276	2 11 10.7	27 38 39	Sp	2.5X0.8	13.0	M	U1718,N855
13	0211+290	2 11 30.9	29 2 5	Sp:	0.4X0.2	16:	M	
14	0211+283	2 11 47.5	28 18 54	?	0.3X0.2	16:	L	
15	0212+309A	2 12 6.2	30 58 7	Sp:	0.4X0.2	16:	M	
16	0212+305	2 12 8.2	30 30 26	C	0.2X0.2	16.5:	M	
17	0212+309B	2 12 15.0	30 57 2	Pi:	0.9X0.3	15.6	H	Z504.039
18	0212+324	2 12 21.6	32 27 54	Sp:	0.3X0.2	16.0:	H	U1730
19	0212+281	2 12 55.3	28 11 7	?	0.3X0.3	15.5:	M	
20	0213+287	2 13 7.6	28 46 2	C:	0.3X0.3	16:	M	
21	0213+308	2 13 26.3	30 50 27	?	0.4X0.2	16.5:	L	
22	0213+307	2 13 59.5	30 42 11	Sp:	0.3X0.2	15.6	L	U1754
23	0214+307	2 14 6.1	30 42 45	Sp:	1.3X0.2	15.5:	M	
24	0214+314A	2 14 8.9	31 28 7	C	0.2X0.2	16.5	L	MK1028
25	0214+314B	2 14 15.7	31 27 19	C	0.2X0.2	16.5	L	
26	0214+303	2 14 17.5	30 21 17	?	0.4X0.2	15.7	L	Z504.047
27	0214+292	2 14 39.0	29 17 28	?	0.4X0.3	15.2	H	Z504.048,52212
28	0214+320	2 14 50.0	32 5 13	?	0.3X0.3	16:	M	
29	0215+321	2 15 39.7	32 8 25	?	0.4X0.3	16:	M	
30	0216+311	2 16 19.5	31 10 9	Sp:	0.6X0.3	15.7	M	Z504.055
31	0216+318	2 16 28.6	31 49 7	Pd:	0.6X0.3	15.6	M	Z504.056
32	0217+314	2 17 31.1	31 27 17	Sk:	0.7X0.2	15.5	L	Z504.059
33	0217+324	2 17 53.1	32 29 0	Pi	0.3X0.2	16	H	MK1032
34	0218+294	2 18 18.4	29 24 30	Sp:	0.4X0.3	16:	M	
35	0218+327	2 18 47.6	32 47 37	Sp:	1.7X0.2	15.1	M	U1820
36	0219+285	2 19 17.7	28 30 26	Sp	1.3X0.2	15.5	H	U1828
37	0219+284	2 19 28.4	28 29 14	Sp	0.8X0.6	15.6	M	U1833
38	0219+282	2 19 45.8	28 14 18	Sk	0.7X0.6	15.0	L	Z504.069
39	0220+319A	2 20 20.8	31 57 42	Sp:	0.4X0.4	15.2	L	Z504.070,MK1034A
40	0220+319B	2 20 23.9	31 58 14	Sp:	0.6X0.4	14.9	L	Z504.071,52233,MK1034B
41	0220+310	2 20 44.6	31 0 59	Sp:	0.3X0.2	16.5:	M	
42	0220+292	2 20 53.8	29 15 19	?	0.4X0.2	16.5:	L	
43	0221+295	2 21 5.9	29 33 14	Sp:	0.3X0.2	16:	M	
44	0221+313	2 21 33.6	31 23 23	Sk:	2.2X0.2	14.9	L	U1856
45	0222+284	2 22 47.7	28 27 4	?	0.4X0.1	16:	M	
46	0223+303	2 23 32.9	30 21 40	Sp	0.7X0.2	15.6	M	Z504.082
47	0223+314	2 23 42.2	31 27 36	?	0.6X0.3	16:	L	
48	0223+283	2 23 46.2	28 21 34	Sk:	0.3X0.3	16:	L	
49	0224+315	2 24 51.5	31 30 32	Sk:	1.7X0.2	15.4	L	U1924
50	0225+310	2 25 16.5	31 5 18	Sk	3.4X0.8	13.9	L	U1935,N931,MK1040

B. Takase and N. Miyauchi-Isobe

Table I-2j. *List of KUGs (A0462-continued)*

NO.	KUG-NAME	R.A. (1950.0)	DEC.	MOR. TYPE	APP. SIZE	APP. MAG.	UVX DEG.	OTHER NAME(S)
51	0225+304	2 25 20.2	30 28 18	?	0.6X0.2	15.6	L	Z504.091
52	0225+303	2 25 21.8	30 20 45	Sp:	0.4X0.2	16:	L	
53	0225+292	2 25 27.9	29 13 59	?	0.2X0.2	16.5:	L	
54	0225+306	2 25 51.8	30 40 3	?	0.4X0.3	15.7	L	Z504.092
55	0226+285	2 26 13.7	28 35 27	?	0.3X0.2	16.5:	L	
56	0226+322	2 26 35.5	32 13 11	Sp:	0.3X0.2	16:	M	
57	0226+283	2 26 46.0	28 21 17	Sk:	0.4X0.4	15.4	L	Z504.096
58	0227+281	2 27 9.5	28 9 35	?	0.3X0.2	16:	L	
59	0227+306	2 27 35.3	30 39 9	Ic:	0.6X0.4	15.0	M	Z504.101
60	0228+325	2 28 10.1	32 32 12	?	0.2X0.1	16.5:	L	
61	0229+278	2 29 25.7	27 50 11	?	0.3X0.2	16.5:	M	
62	0229+277	2 29 38.3	27 43 14	Sp:	0.3X0.1	16.5:	M	
63	0229+306	2 29 48.2	30 36 46	C	0.1X0.1	16.5	M	MK1046
64	0230+269	2 30 15.2	26 59 30	?	0.3X0.2	16:	L	
65	0230+325	2 30 17.0	32 31 37	C	0.2X0.2	15.2	M	U2022
66	0230+306	2 30 26.7	30 37 16	Sk:	0.6X0.2	16:	L	
67	0230+277	2 30 26.9	27 43 3	?	0.2X0.2	16.5:	L	
68	0230+299	2 30 34.3	29 59 1	Sk:	0.3X0.2	16:	M	
69	0231+290	2 31 16.0	29 5 37	Sk	2.6X1.1	12.1	M	U2045,N972
70	0231+297	2 31 38.5	29 44 47	?	0.3X0.3	15.0	M	Z505.017

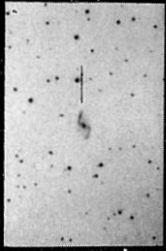
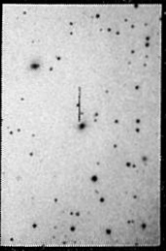
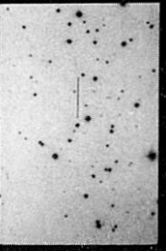
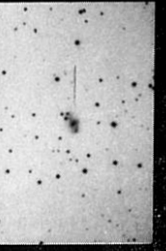
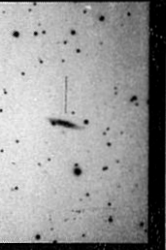
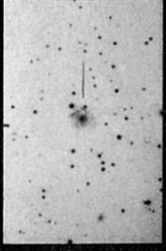
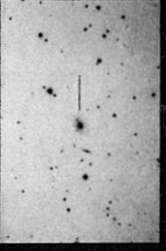
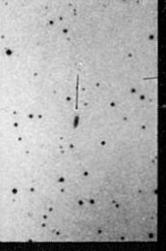
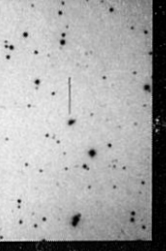
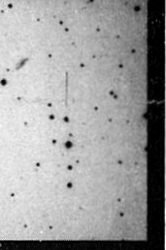
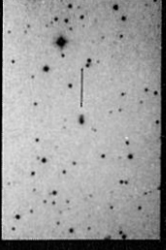
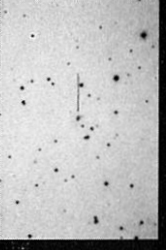
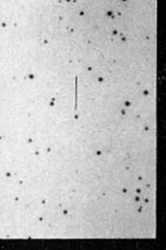
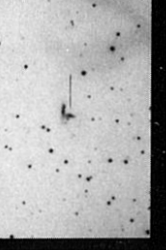

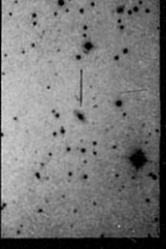
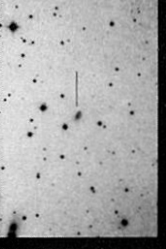
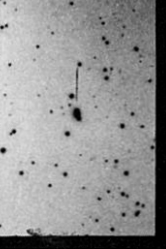
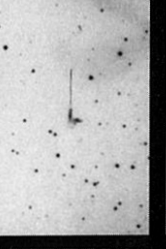

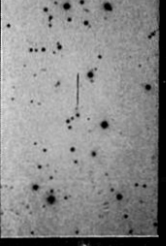
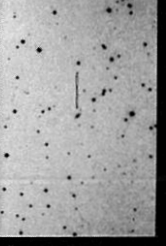
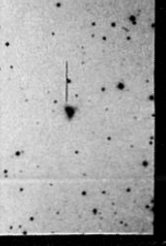
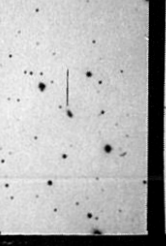

Notes on individual galaxies given in Table I-2j (A0462)

- 0209+274: Nucleus is eccentrically located.
- 0211+276: Central bulge includes a blue thin bar.
- 0212+309B: Very blue condensation at the south-west end of the southern component.
- 0214+307: Edge-on spiral with a bending disk.
- 0214+303: Superposed by a star at the north-east end.
- 0214+292: Might be a clumpy irregular type.
- 0214+320: Featureless diffuse disk.
- 0217+324: Pair of two components presenting a boomerang shape.
- 0219+284: Split bar.
- 0219+282: Face-on spiral with a small bulge and ringed arms.
- 0225+310: Spiral with a companion to the north.
- 0227+306: At least three complexes of HII regions are seen.



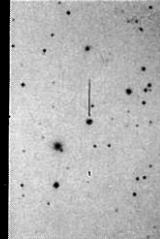
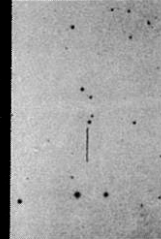
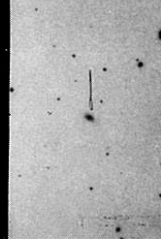
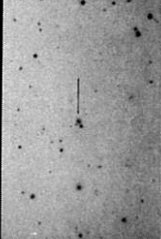


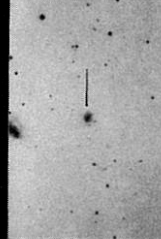
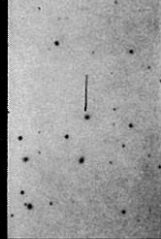
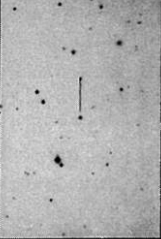


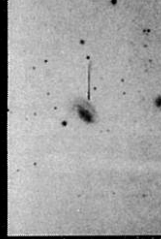

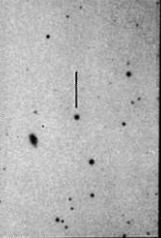
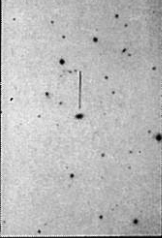



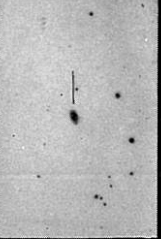
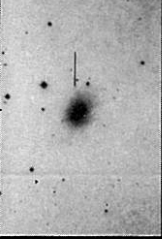


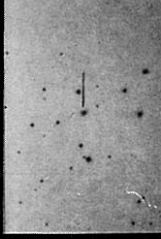
Appendix — Finding Charts

In the following pages finding charts are shown for each KUG listed in the catalogue. These photographs are reproduced from the Palomar Sky Survey blue prints (© 1960 National Geographic Society-Palomar Sky Survey reproduced by permission of the California Institute of Technology). The magnification is 3 times, so the scale of the reproduced photographs is 0'.37/mm North is at the top and east to the left. At the top of each column, area number preceded by A and names of KUGs included in the column are indicated.

Kiso UV-Excess Galaxies

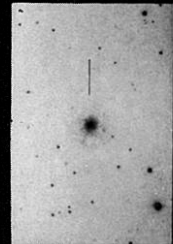

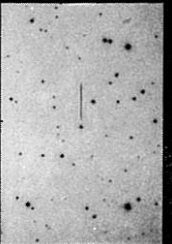
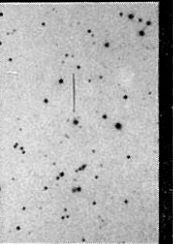
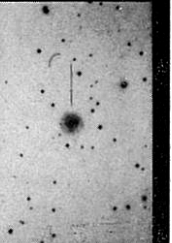
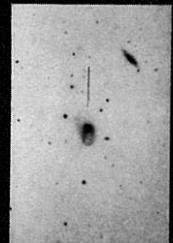
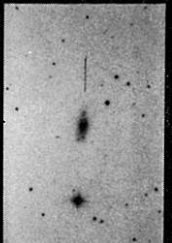
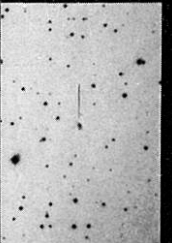
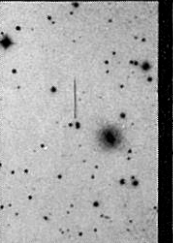
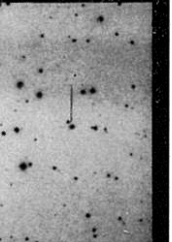


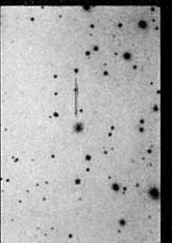

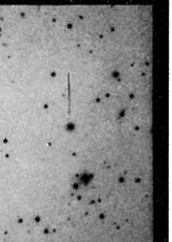
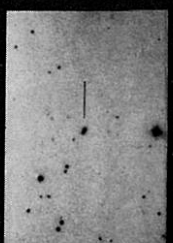
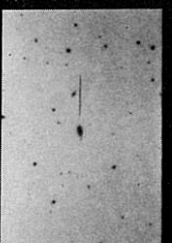
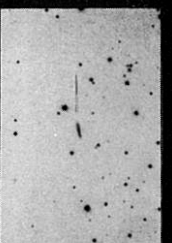
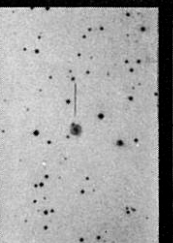
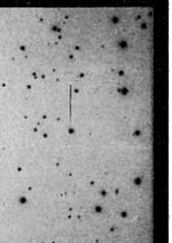

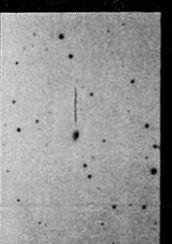
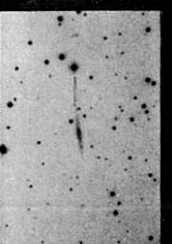
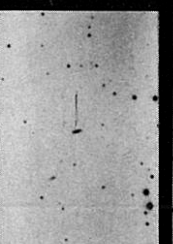
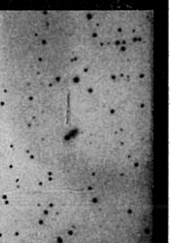
A0035-1 0621+743 0625+744 0635+756 0642+728 0642+738	A0035-2 0645+744 0646+774 0654+761 0707+736 0709+729	A0035-3 0710+741 0711+739 0713+745 0722+726 0723+722	A0035-4 0725+726 0727+755 0730+745 0730+745 0730+741	A0035-5 0730+738 0738+756
				
				
				
				
				

A-1

A0180-1 1128+564A 1128+564B 1128+563 1129+542 1129+541	A0180-2 1129+532 1130+553 1131+534 1132+558 1133+548	A0180-3 1133+551 1134+545 1137+552 1139+575 1140+529	A0180-4 1140+537 1141+553A 1141+553B 1142+558 1143+563	A0180-5 1144+573 1144+527A 1144+527B 1144+562 1145+527
				
				
				
				
				

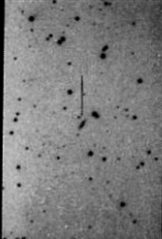
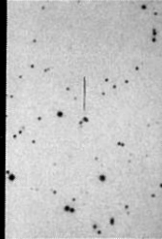
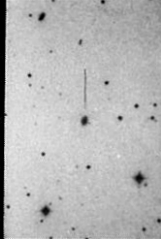
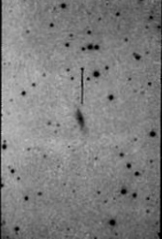
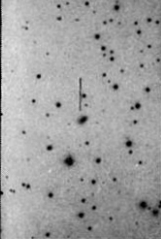

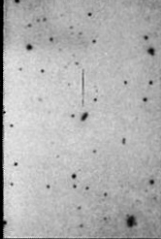
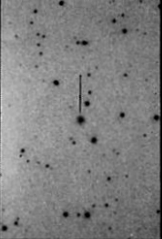
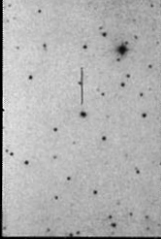



A-2

Kiso UV-Excess Galaxies

A0180-6	A0180-7	A0343-1	A0343-2	A0343-3
1148+556 1148+553 1148+566 1149+522 1152+549	1153+554 1154+534 1156+545 1159+566 1204+554	0747+407 0750+379 0752+393 0754+399 0756+423	0757+396 0757+399 0759+408 0801+403 0801+386	0804+393 0804+416 0804+391 0806+392 0806+417
				
				
				
				
				

A-3

(617)

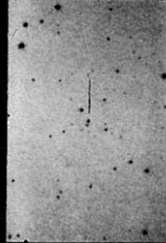
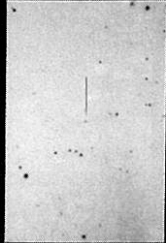
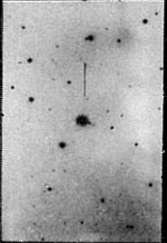
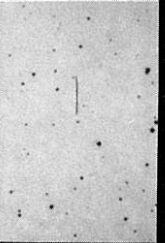

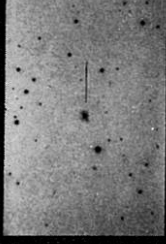
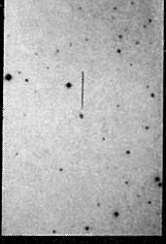
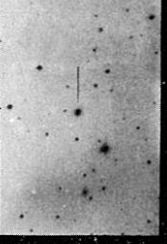




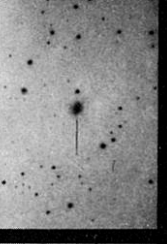
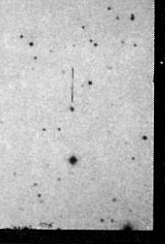
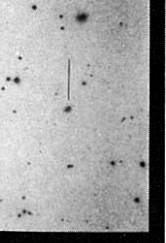

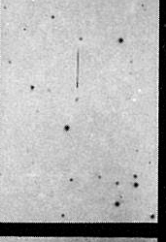
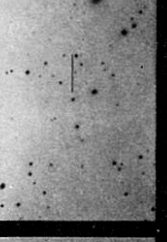
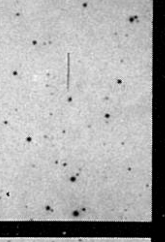
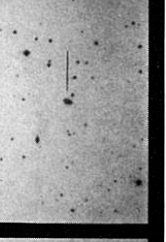
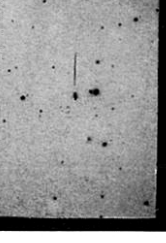
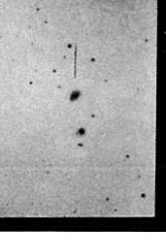

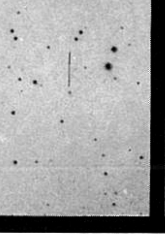
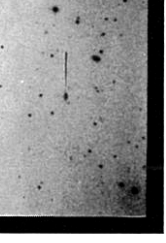
A0343-4 0806+406 0806+402 0807+392 0808+371 0809+408	A0343-5 0809+387 0810+418 0811+387 0812+389 0813+418	A0343-6 0815+409	A0345-1 0833+416 0834+417 0834+414 0835+387 0835+410	A0345-2 0836+411 0836+403 0836+402 0836+399 0836+415
				
				
				
				
				

Kiso UV-Excess Galaxies












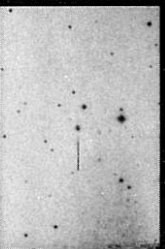

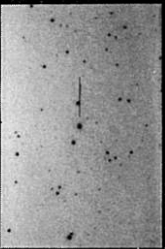
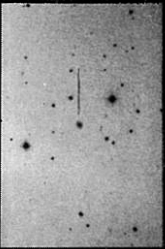
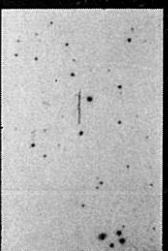


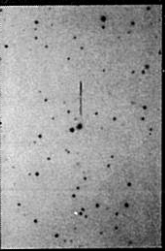
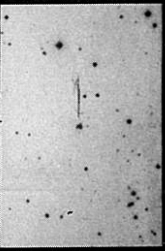
A0345-3	A0345-4	A0345-5	A0345-6	A0345-7
0836+424 0837+409 0837+421 0837+426 0840+414	0840+402 0840+418 0841+407 0841+392 0842+415	0842+386 0842+400 0843+396 0844+395 0844+389	0844+382 0845+377 0845+409 0845+405 0845+379	0845+397 0846+410 0846+393 0846+410 0846+399

A-5

B. Takase and N. Miyauchi-Isobe

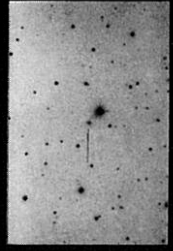
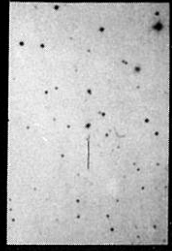
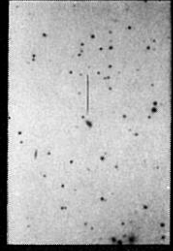


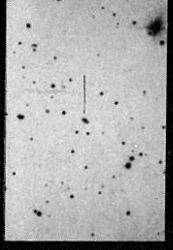
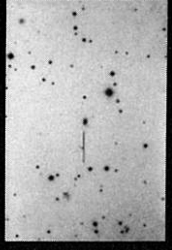
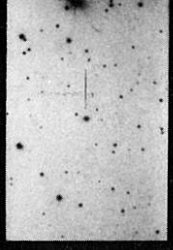
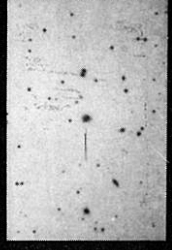
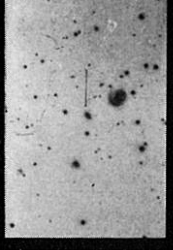
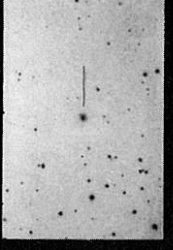
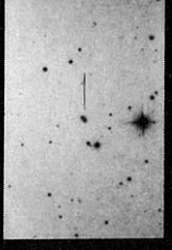

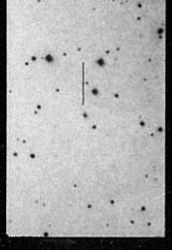
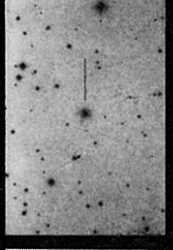
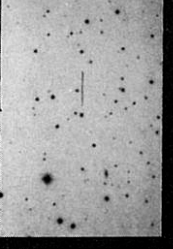
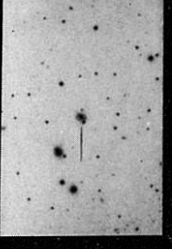

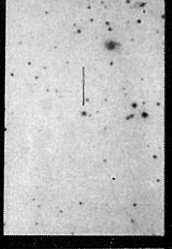
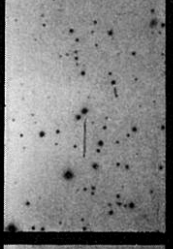
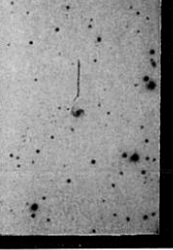
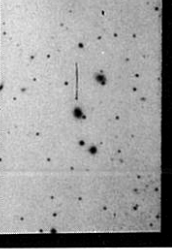
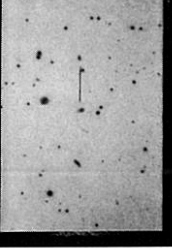
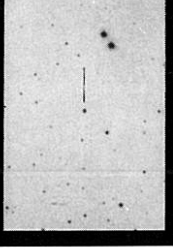
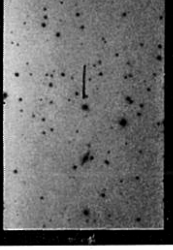
A0345-8	A0345-9	A0345-10	A0345-11	A0345-12
0846+396 0846+404 0847+405 0848+397 0848+394	0848+393 0848+402 0848+414 0849+386 0849+408	0849+426 0850+405 0851+397 0851+396 0852+391	0852+377 0852+407 0852+373 0852+400A 0852+388	0852+400B 0853+391 0853+392 0854+423A 0854+423B
				
				
				
				
				

Kiso UV-Excess Galaxies

A0345-13	A0345-14	A0345-15	A0364-1	A0364-2
0854+396 0854+409 0855+425 0855+394 0858+424	0858+388 0859+406 0859+420 0900+398 0901+422	0901+424 0901+414 0902+412 0903+420	1609+383 1610+388 1611+374 1612+394 1612+396	1613+396 1613+377 1614+380 1614+419 1614+425
				
				
				
				

A-7

(621)

A0364-3 1614+398 1614+384 1614+404 1616+382 1616+402	A0364-4 1617+406 1617+380 1617+417 1617+379 1618+378	A0364-5 1618+410 1618+402 1618+421 1618+415 1619+400	A0364-6 1619+399 1619+400 1619+396 1619+408 1619+401	A0364-7 1620+390A 1620+390B 1620+405 1620+384 1621+378
				
				
				
				
				

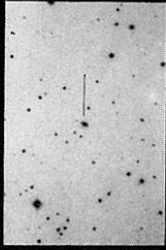
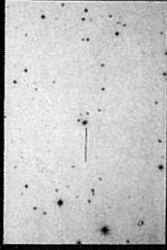

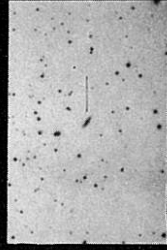
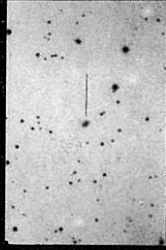
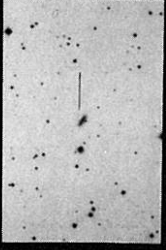
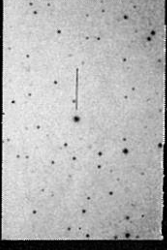

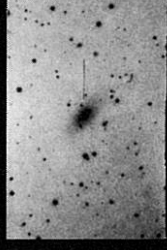

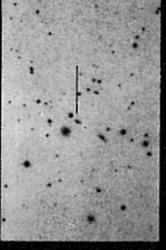
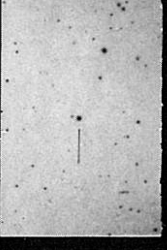

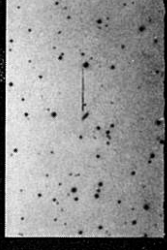

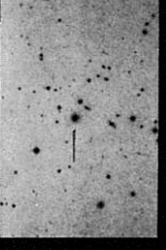
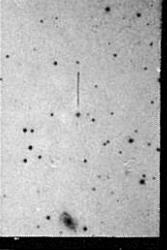

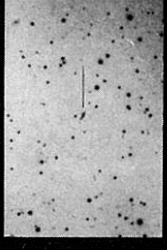
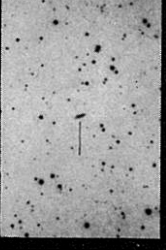
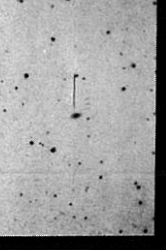
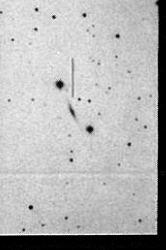
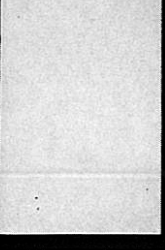
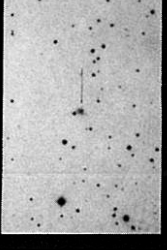
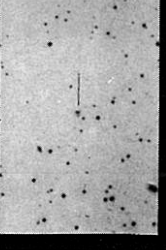
Kiso UV-Excess Galaxies

A0364-8	A0364-9	A0364-10	A0364-11	A0364-12
1621+406 1621+405 1621+394 1621+413 1621+402	1621+417 1621+393 1622+411 1622+402 1622+408	1622+387 1622+411 1623+396 1623+406 1623+381	1623+396 1624+404 1624+411 1624+400 1624+389	1624+394 1624+409 1624+402 1625+426 1625+391

A-9

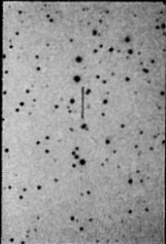
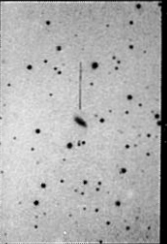
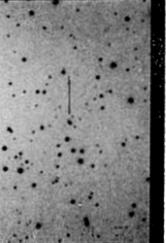
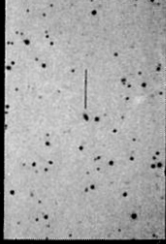
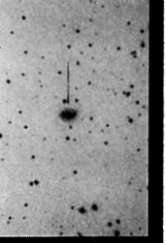
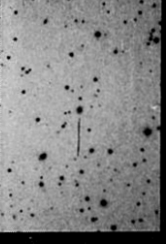
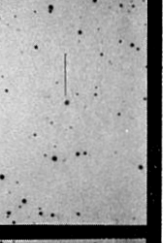
A0364-13 1625+413 1625+419 1625+410 1625+390 1625+392A	A0364-14 1625+392B 1625+407 1626+412 1626+413 1626+402	A0364-15 1627+402 1627+395 1627+399 1627+396 1627+421	A0364-16 1627+413 1627+403 1627+385 1628+407 1628+408	A0364-17 1629+406 1629+405A 1629+405B 1629+406 1629+415
				
				
				
				
				

Kiso UV-Excess Galaxies

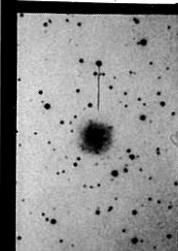

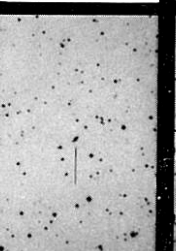
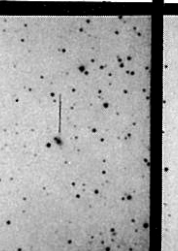
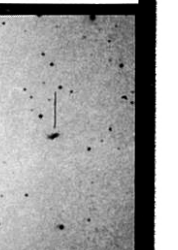
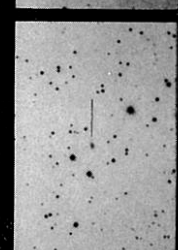
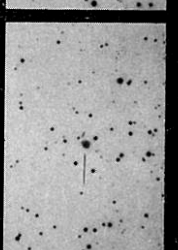
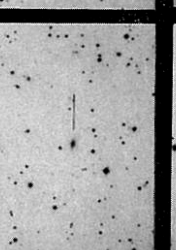
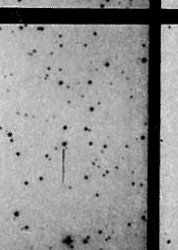
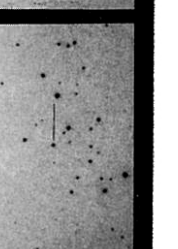
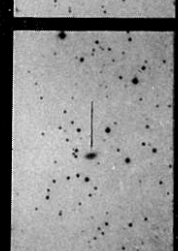
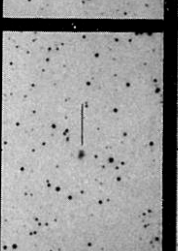
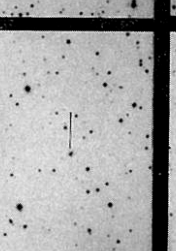
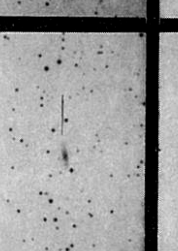
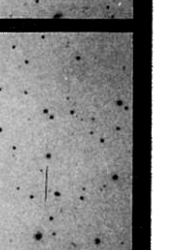

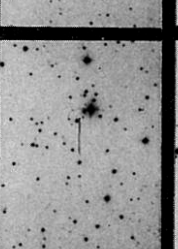
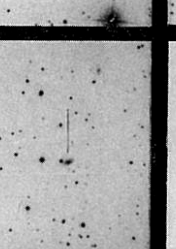
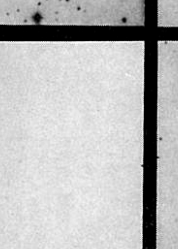
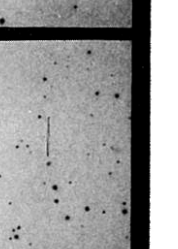
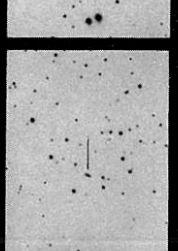
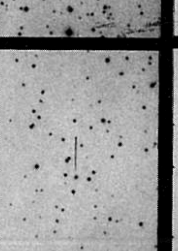
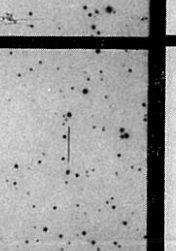

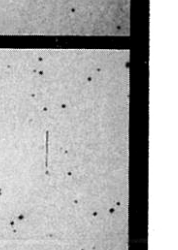
A0364-18 1630+373 1631+374 1632+393A 1632+393B 1632+374	A0364-19 1632+414 1633+402 1634+401 1634+392 1635+373	A0364-20 1635+409 1636+420	A0391-1 0227+329 0227+369 0228+326 0229+357 0230+352	A0391-2 0230+348 0230+325 0230+333 0231+364 0231+343
				
				
				
				
				

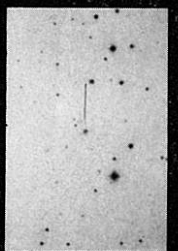
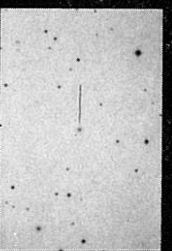
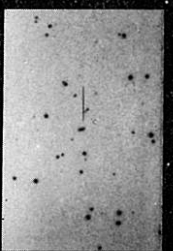
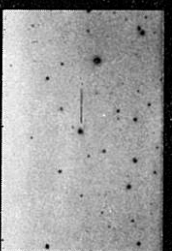
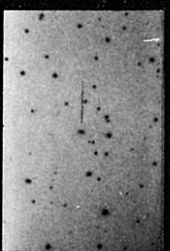

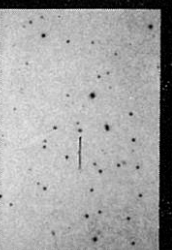
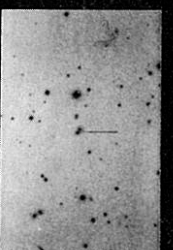
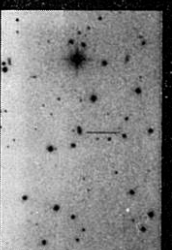


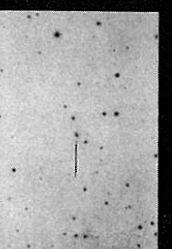
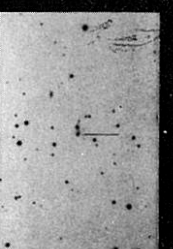
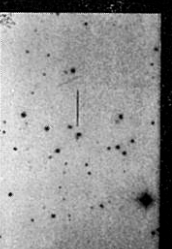
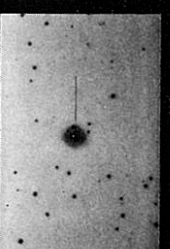
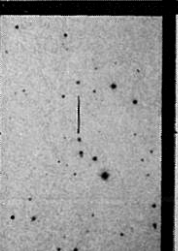

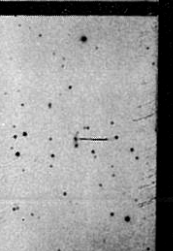

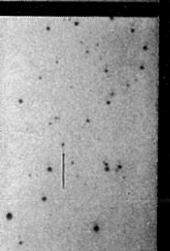
A-11

(625)


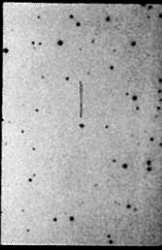
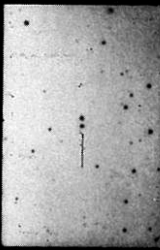

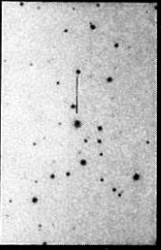
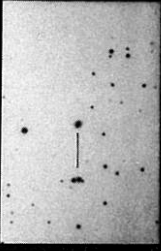





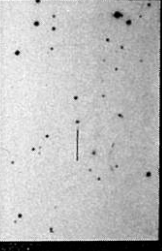
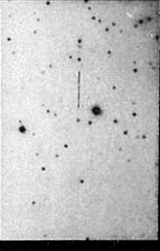
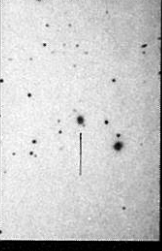
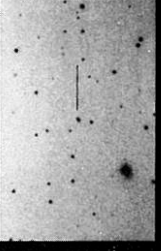
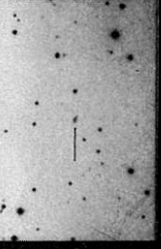
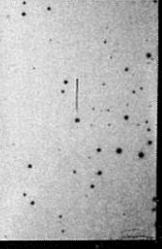




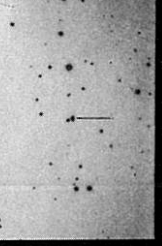
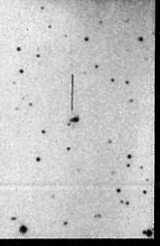
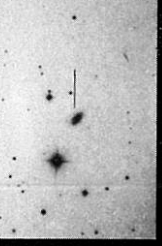
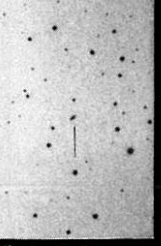
A0391-3	A0391-4	A0391-5	A0391-6	A0391-7
0231+346 0231+342 0232+372 0232+373 0232+374	0233+349 0233+343 0233+376 0233+369 0234+334	0234+342 0234+368 0234+340 0235+353 0236+372	0236+358 0237+350A 0237+350B 0237+366 0238+356	0238+364 0239+345 0239+360 0239+338 0240+322
				
				
				
				
				

Kiso UV-Excess Galaxies

A0391-8 0240+371 0240+345 0240+331 0241+335 0241+338	A0391-9 0242+349 0243+348 0244+347 0244+371 0245+338	A0391-10 0246+362 0246+351 0246+338 0246+347 0246+352	A0391-11 0249+365 0249+350 0252+335	A0409-1 0825+348 0828+361 0829+352 0831+337 0831+324
				
				
				
				
				

A0409-2	A0409-3	A0409-4	A0409-5	A0409-6
0831+374 0832+348 0832+364 0833+330 0834+354	0834+350 0834+340 0834+365 0835+370 0835+337	0835+331 0835+360 0835+364 0835+342A 0835+342B	0836+342 0837+347 0838+360 0838+364 0838+328	0838+362 0839+364 0840+328 0840+348 0841+327
				
				
				
				

Kiso UV-Excess Galaxies

A0409-7 0841+325 0842+346 0842+331 0842+369 0842+371	A0409-8 0842+321 0842+343A 0842+343B 0843+357 0843+366	A0409-9 0843+321 0844+345 0844+339 0844+336 0845+354	A0409-10 0845+369 0845+358 0845+374 0846+363 0847+352	A0409-11 0847+366 0847+365 0848+325 0849+335 0850+365
				
				
				
				
				

A0409-12	A0413-1	A0413-2	A0413-3	A0413-4
0851+328A 0851+366 0851+328B 0852+373	0946+324 0946+348 0947+338 0947+359 0947+366	0948+369 0948+331 0949+350 0949+367 0949+357	0950+339 0950+370 0950+363 0950+346A 0950+351	0950+349 0950+346B 0950+367 0951+375 0951+367
				
				
				
				




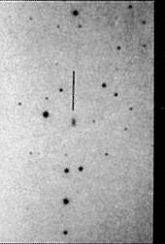
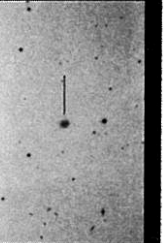


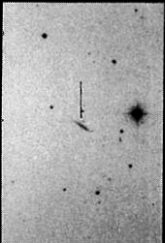

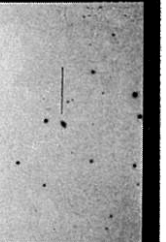

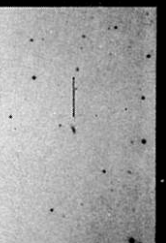
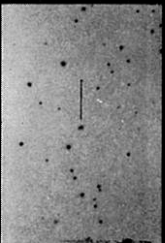
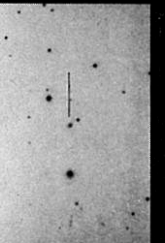
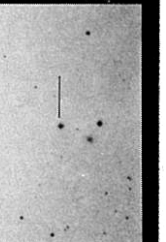
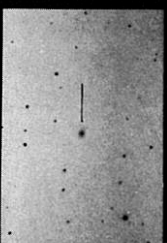

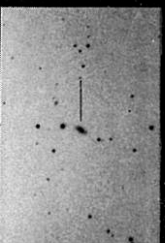
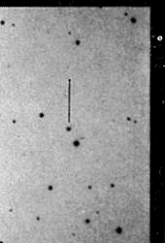
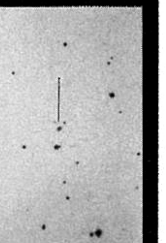
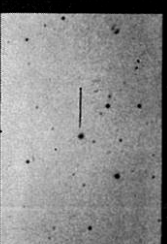
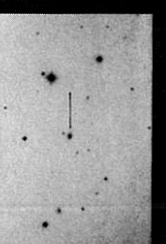

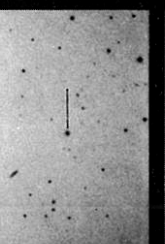
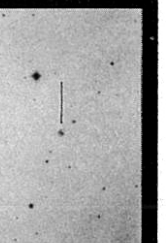
Kiso UV-Excess Galaxies

A0413-5	A0413-6	A0413-7	A0413-8	A0413-9
0951+343 0951+336A 0951+336B 0951+360 0951+369	0952+356 0952+352 0952+376 0952+327 0952+373	0953+372 0953+357 0953+368 0953+373 0954+342	0954+372 0954+363 0954+338 0954+365 0954+371	0955+340 0955+324 0955+364 0955+338 0955+326

A-17

(631)

B. Takase and N. Miyauchi-Isobe

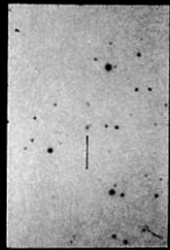
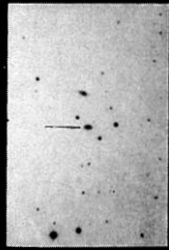
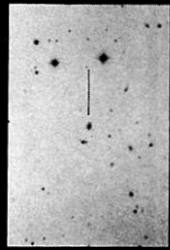
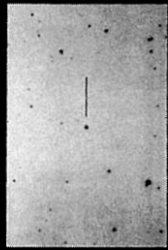
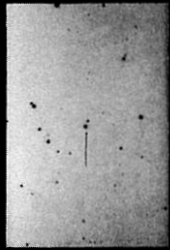
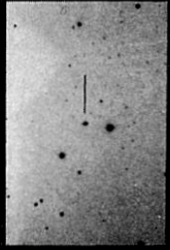
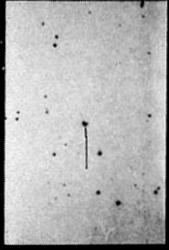
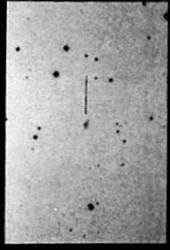
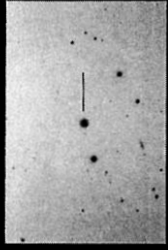
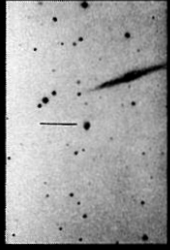
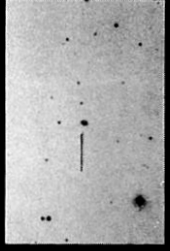
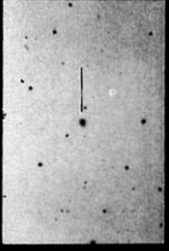

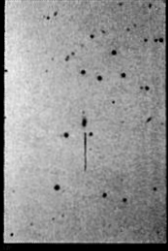
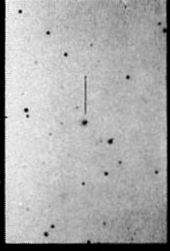
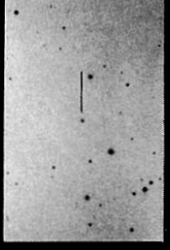
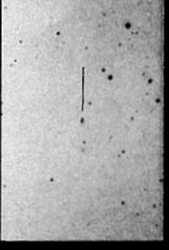

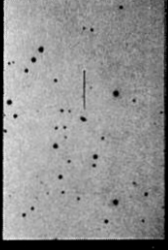
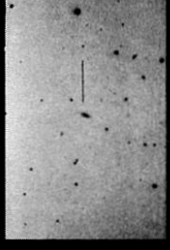
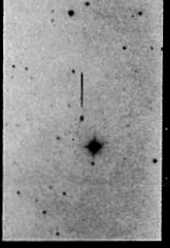
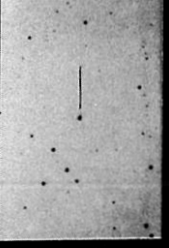


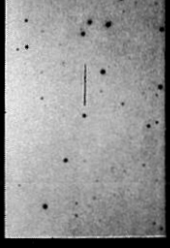
A0413-10 0955+350 0956+368 0956+369 0956+345 0957+336	A0413-11 0957+363 0957+377 0958+376 0958+371 0958+373	A0413-12 0958+333 0958+367 0959+345 0959+340 0959+370	A0413-13 0959+354 1000+339A 1000+335 1000+374 1000+372	A0413-14 1000+339B 1000+336 1001+373 1002+366 1002+372
				
				
				
				
				

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Kiso UV-Excess Galaxies


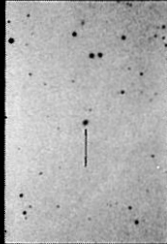
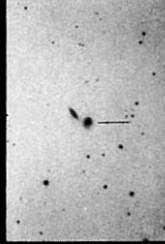
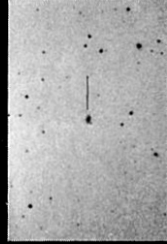
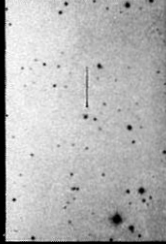
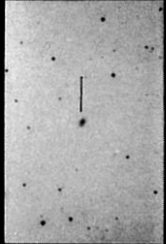
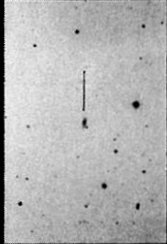
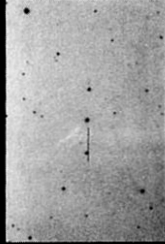
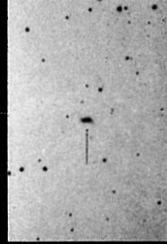


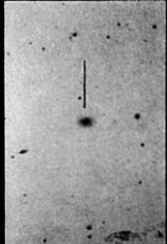
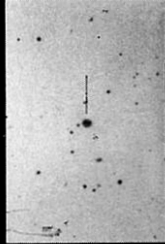
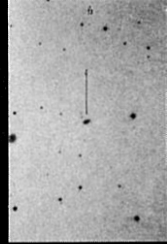
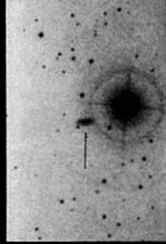


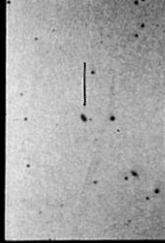
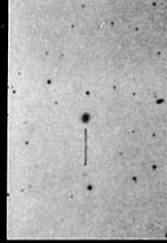
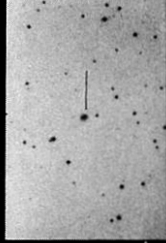
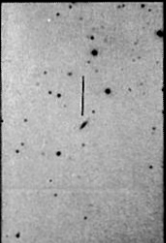
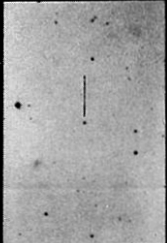


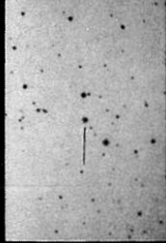
A0413-15	A0413-16	A0413-17	A0413-18	A0413-19
1003+367 1003+331 1003+324 1004+353 1004+332	1004+329 1004+375 1004+357 1004+321 1004+327	1004+345 1004+321 1005+357 1005+335 1005+365	1005+350 1005+360 1005+361 1006+366 1006+322	1006+327 1006+363 1006+324A 1006+324B 1007+367

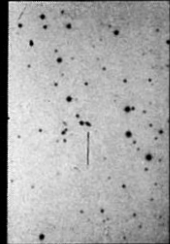
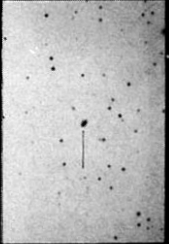
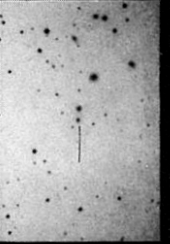
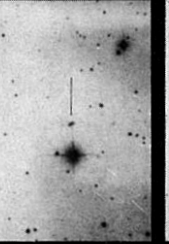
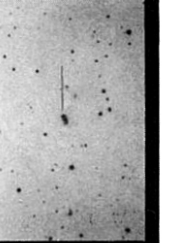
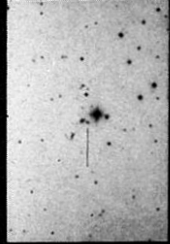
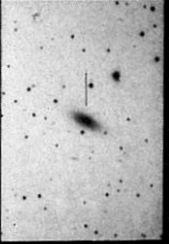
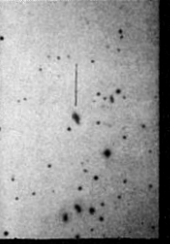
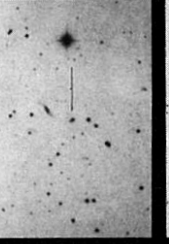
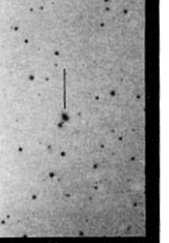
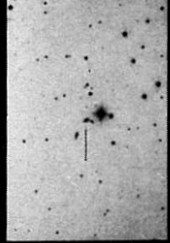
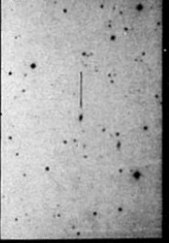
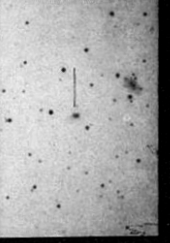
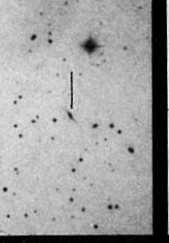
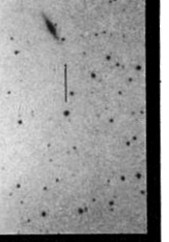
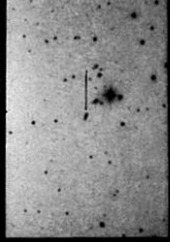
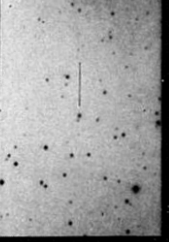
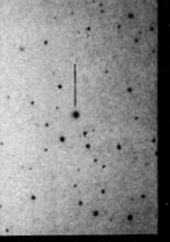
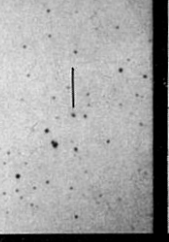
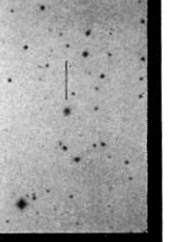
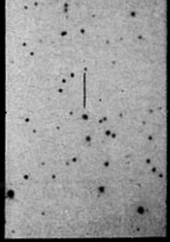
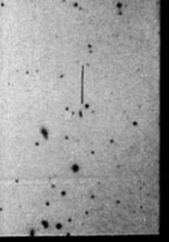
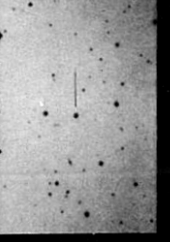
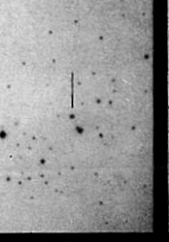
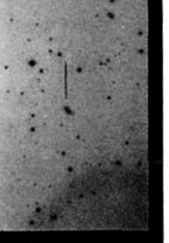
A-19

A0413-20	A0413-21	A0413-22	A0426-1	A0426-2
1007+354 1007+362 1007+325 1008+342 1009+365	1010+355 1010+347 1010+362 1010+359 1011+345	1011+360 1012+356	1407+346 1407+377 1410+359 1410+347 1411+367	1413+347 1413+364 1414+330 1416+359 1416+345
				
				
				
				
				

A-20

Kiso UV-Excess Galaxies

A0426-3	A0426-4	A0426-5	A0426-6	A0462-1
1417+365 1417+372 1417+363 1417+336 1417+358	1419+352 1419+358 1420+373 1420+330 1421+330	1421+342 1421+366 1423+327 1425+372 1426+326	1426+361 1429+334 1430+369A 1430+369B 1433+353	0207+294 0208+324 0208+312 0208+302 0209+308A
				
				
				
				
				

A0462-2	A0462-3	A0462-4	A0462-5	A0462-6
0209+308B 0209+289A 0209+289B 0209+289C 0209+274	0211+286 0211+276 0211+290 0211+283 0212+309A	0212+305 0212+309B 0212+324 0212+281 0213+287	0213+308 0213+307 0214+307 0214+314A 0214+314B	0214+303 0214+292 0214+320 0215+321 0216+311
				
				
				
				
				

Kiso UV-Excess Galaxies

A0462-7	A0462-8	A0462-9	A0462-10	A0462-11
0216+318 0217+314 0217+324 0218+294 0218+327	0219+285 0219+284 0219+282 0220+319A 0220+319B	0220+310 0220+292 0221+295 0221+313 0222+284	0223+303 0223+314 0223+283 0224+315 0225+310	0225+304 0225+303 0225+292 0225+306 0226+285

