Table 1. List of new northern dwarf galaxy candidates

kkh	R.A. (1950) DEC.		$(a \times b)_b$ $(a \times b)_r$		Type	S.B.	Identi– fication	B_T A_B	Notes
1	2		3		4	5	6	7	8
1	00 11 54.0	+31 02 22	0.70	0.45	Ir	L		18.4	blue, distant?
			0.50	0.35				0.32	
2	00 16 11.6	+36 56 48	0.50	0.35	Ir	L			knots
			0.45	0.35				0.28	
3	00 43 00.3	−01 22 38	1.00	0.75	Ir?	L	MCG0-3-4	15.5	
			0.90	0.75				0.09	
4	01 02 56.8	+45 14 35	0.50	0.30	Ir	VL			
			0.40	0.30				0.49	
5	01 04 35.0	+51 10 25	0.65	0.40	Ir?	VL		17.1	
			0.70	0.50				1.22	
6	01 31 44.0	+51 50 10	0.85	0.60	Ir	L		17.0	blue
			0.70	0.45				1.52	
7	01 34 12.0	+03 28 03	0.60	0.35	Ir	VL			blue,comp.of
			0.50	0.25				0.16	UGC1133 ?
8	02 09 47.1	+10 05 56	1.30	0.75	Ir	L		16.7	bluish
			1.10	0.60				0.54	
9	02 09 58.8	+32 34 49	0.80	0.55	Sph?	VL	UGC1703=		
			0.80	0.60			F415-01	0.42	
10	02 15 13.1	+06 04 37	1.60	0.80	Ir	VL		16.5	knots, blue
			1.50	0.70				0.28	
11	02 21 03.6	+55 47 09	1.40	0.75	Ir	VL	ZOAG	16.2	resolved
			1.70	0.85			135.7-4.5	2.13	w. 6-m tel.
12	02 23 51.2	+57 15 50	1.7:	0.5:	Ir	EL		17.8	resolved
			1.5:	0.5:				3.44	w. 6-m tel.
13	02 35 18.6	+29 41 25	1.20	0.75	Sph?	L	K21	16.5	
			1.20	0.80				0.64	
14	02 42 01.8	+31 57 04	1.35	0.75	Ir	L		17.0	
			1.35	0.80				0.80	
15	02 53 06.7	+36 56 02	0.75	0.45	Ir	L	UGC2397	16.9	
			0.70	0.40				0.50	
16	02 56 11.2	+43 40 47	1.30	0.40	Ir	L	STM(92)	17.0	(1992,ApJS,
			1.45	0.45				0.77	81,5)
17	02 58 42.1	+37 04 31	0.55	0.50	Ir	L			blue knots
			0.50	0.50				0.58	
18	03 00 00.5	+33 29 56	0.70	0.35	Ir	L		16.7	bluish,resolv.
			0.70	0.35				0.86	w. 6-m tel.
19	03 04 10.2	+74 00 56	1.10	0.75	Ir	VL		18.1	
			0.95	0.70				2.62	
20	03 19 54.1	+76 05 59	0.90	0.70	Ir	L	ZOAG	16.8	
			0.90	0.70			131.8+16.1	1.36	
21	03 22 25.0	+81 23 22	1.10	1.00	Ir?	EL			isol. cirrus?
			1.10	1.00				1.00	
22	03 39 33.5	+71 54 25	1.05	0.55	Ir	EL			star projected
			1.0:	0.6:				1.66	
23	03 39 36.0	+38 27 30	1.10	0.85	Ir	L			blue knots
			0.95	0.75				1.17	
24	04 06 19.0	+85 42 57	0.80	0.40	Ir	L	Mai 6	17.5	proj. on RN
			0.85	0.45				1.22	
25	04 19 06.7	+30 19 20	0.75	0.50	Ir?	VL		18.3	
			0.70	0.50				2.33	

kkh	R.A. (1950)	DEC.	$(a \times b)_b$ / $(a \times b)_r$		Type	S.B.	Identi–fication	B_T / A_B	Notes
1	2		3		4	5	6	7	8
25	04 19 06.7	+30 19 20	0.75	0.50	Ir?	VL		18.3	
			0.70	0.50				2.33	
26	04 35 41.4	+06 59 39	2.40	0.65	Ir?	L		16.5	filament
			2.70	0.60				0.65	like UGCA20
27	04 36 56.2	+11 05 07	0.80	0.30	Ir	VL			bluish
			0.70	0.35				1.77	
28	04 41 07.0	+02 54 21	1.15	0.90	Ir	L		16.8	blue,patchy
			1.00	0.80				0.98	
29	04 53 27.3	+37 52 20	1.20	0.70	Ir	L	ZOAG		
			1.25	0.60			166.81-3.2	7.73	
30	05 07 47.1	+81 33 56	0.70	0.40	Ir	L	Mai 7		
			0.70	0.40				0.38	
31	05 10 25.5	+62 38 07	1.30	0.80	Ir	EL			9'NNE away
			1.00	0.70				1.41	UA105
32	05 39 37.0	+58 43 28	0.95	0.55	Ir?	L			distant?
			0.85	0.40				1.22	
33	05 49 39.1	+28 05 18	1.10	0.80	PN?	L			
			1.20	0.95				3.18	
34	05 53 23.0	+73 25 24	0.90	0.50	Ir	L	Mai 13	17.1	knots?
			0.80	0.50				1.08	
35	05 54 15.6	+15 25 09	1.30	1.10	Ir	EL			structureless
			1.30	1.10				1.71	
36	05 59 33.9	+14 51 01	0.70	0.45	Sm	L	ZOAG	18.6	Vh=710,NED
			1.50	0.90			194.1-3.8	3.97	
37	06 38 57.3	+80 10 35	1.20	0.80	Ir	L	Mai 16	16.4	knots
			0.90	0.60				0.31	
38	06 44 09.6	+47 34 10	1.20	0.65	Ir	VL		17.4	
			1.00	0.50				0.40	
39	07 35 30.0	−01 23 24	0.55	0.50	Ir	VL		17.4	
			0.50	0.45				0.49	
40	07 43 08.3	+51 25 11	0.80	0.45	Ir	L	MCG9-13-52	16.6	
			0.80	0.55				0.27	
41	07 44 11.6	+64 05 11	1.30	0.60	Ir	VL			
			-	-				0.17	
42	07 57 37.3	+86 16 49	0.85	0.55	Ir	L	UGC4129	16.1	knots,Vh=1850
			0.65	0.45				0.37	NED
43	08 03 23.1	+15 38 55	0.60	0.50	Ir	EL		17.8	bluish
			0.50	0.40				0.12	
44	08 11 36.4	+69 30 03	0.60	0.50	Ir	VL		18.2	
			-	-				0.15	
45	08 21 09.8	+22 58 06	0.65	0.40	Ir?	L			distant?
			0.60	0.35				0.15	
46	09 05 58.5	+05 29 43	0.65	0.55	Ir	L		17.0	knots
			0.60	0.50				0.20	
47	09 06 06.5	+62 24 40	0.50	0.50	Sph?	EL			U4803 3'NW
			0.55	0.50				0.20	
48	09 13 30.0	+51 15 56	0.90	0.80	Ir	L			near NGC2841
			0.70	0.70				0.07	
49	09 18 32.0	+50 28 55	1.30	1.10	Ir	L			near NGC2841
			1.20	1.00				0.07	
50	09 19 18.4	+48 47 23	1.30	0.80	Ir	L	K 55	16.7	
			1.20	1.10				0.08	

kkh	R.A. (1950)	DEC.	$(a \times b)_b$ / $(a \times b)_r$		Type	S.B.	Identi–fication	B_T / A_B	Notes
1	2		3		4	5	6	7	8
51	09 27 24.2	+20 12 42	0.70	0.70	Ir	L	K 56=	17.0	Vh=561,NED
			0.65	0.60			D 565-10	0.19	comp.N2903?
52	09 34 52.9	+27 47 35	0.65	0.30	Ir	L	P27427	16.6	Vh=1597,NED
			0.60	0.25				0.08	
53	09 37 53.2	+00 16 15	0.80	0.70	Ir	L	K 58		
			0.70	0.50				0.25	
54	09 42 06.4	+32 28 07	0.90	0.90	Ir	L	UGC5209	16.5	Vh=546,NED
			0.85	0.65				0.08	
55	09 45 14.1	+13 30 51	1.00	0.90	Sph?	EL			
			–	–				0.19	
56	09 53 53.6	+66 34 48	2.3:	2.0:	Ir	EL			cirrus?
			2.5:	2.0:				0.48	
57	09 56 35.0	+63 25 30	0.60	0.50	Sph	VL	HS108	18.5	resolved
			0.70	0.70				0.10	with 6-m tel.
58	10 04 23.3	+39 12 50	1.60	0.60	Ir	H	P29431	15.5	patchy,envel.
			1.05	0.45				0.06	Vh=580,NED
59	10 06 40.0	+63 09 36	1.20	0.80	Ir	H	kig402	15.2	br.star proj.,
			1.20	0.70				0.06	Vstar=+33
60	10 13 22.0	+07 03 15	0.85	0.45	Ir	L			blue
			0.55	0.30				0.09	
61	10 23 07.0	+63 04 30	0.50	0.50	Ir	L			knots, dist.?
			0.45	0.40				0.03	
62	10 41 51.2	+54 28 09	0.65	0.45	Ir	L		17.1	granulated
			0.65	0.45				0.05	
63	10 43 22.8	+82 41 30	1.20	0.70	Ir	VL			
			1.10	0.70				0.12	
64	10 48 57.0	+03 43 10	1.20	0.95	Sm	L		16.5	
			0.95	0.75				0.19	
65	10 49 14.6	+28 37 42	0.70	0.70	Sph?	VL	BTS023	17.0	distant?
			0.60	0.50				0.08	
66	10 59 00.4	+70 32 01	0.80	0.60	Ir	L	K 74	17.9	
			0.80	0.60				0.10	
67	11 20 25.4	+21 36 05	1.20	0.90	Ir?	EL			
			–	–				0.10	
68	11 28 17.0	+14 25 18	0.80	0.65	Ir	L		16.7	blue,patchy
			0.65	0.45				0.16	
69	11 32 17.7	+11 17 42	0.80	0.40	Ir	L		17.0	blue knots
			0.85	0.35				0.10	
70	11 36 42.0	+60 26 55	0.90	0.45	Ir	H		16.7	blue knots
			0.75	0.40				0.06	
71	11 40 35.3	+14 30 08	1.10	0.70	Ir	L	K 79	16.6	
			0.90	0.65				0.10	
72	11 42 20.1	+02 26 31	0.95	0.60	Ir	L		17.6	blue
			0.85	0.50				0.11	
73	11 47 27.6	+56 03 15	0.85	0.70	Ir?	VL	BTS045	16.5	
			0.70	0.55				0.03	
74	11 52 38.6	+44 25 43	1.05	0.80	Ir	L	K 81	16.7	
			0.95	0.65				0.06	
75	11 59 22.0	+62 55 13	0.75	0.40	Ir	L		18.0	
			0.55	0.35				0.08	

kkh	R.A. (1950)	DEC.	$(a \times b)_b$ / $(a \times b)_r$		Type	S.B.	Identi–fication	B_T / A_B	Notes
1	2		3		4	5	6	7	8
76	12 08 50.6	+38 49 06	0.70	0.35	Ir	H		17.1	blue knots
			0.55	0.30				0.08	
77	12 11 42.1	+66 22 12	1.50	0.60	Ir	H	UGC7242	14.6	blue,near a
			1.40	0.60				0.08	bright star
78	12 15 14.9	+33 37 16	0.80	0.50	Ir	VL	BTS113	17.5	
			0.60	0.45				0.06	
79	12 17 28.0	+61 47 45	0.55	0.30	Ir	L		17.7	blue
			0.50	0.25				0.08	
80	12 25 34.8	+22 34 02	0.90	0.60	Ir	L	F573-01	17.0	
			0.80	0.55				0.09	
81	13 08 52.5	+36 56 44	0.65	0.50	Ir	VL		18.5	two LSB
			–	–				0.04	objects 8'N
82	13 10 43.1	+42 03 03	1.30	1.00	Ir	L	UGCA337	16.3	knots,gradient
			1.20	1.00				0.06	of brightness
83	13 22 38.0	+42 45 09	0.95	0.50	Ir?	L	UGCA354	17.0	central knots
			0.85	0.45				0.06	
84	13 32 08.2	+09 02 56	1.15	0.75	Ir	H		15.8	knots+blue
			0.90	0.60				0.11	envelope
85	13 37 34.1	+39 23 20	0.55	0.30	Ir	EL		17.2	patchy
			0.55	0.30				0.04	
86	13 52 02.2	+04 29 17	0.70	0.50	Ir	L		16.8	
			0.65	0.45				0.12	
87	14 13 32.9	+57 19 10	0.80	0.30	Ir	H	KUG	16.1	two knots, res.
			0.75	0.25				0.05	w. 6-m tel.
88	15 50 51.0	+64 16 30	0.70	0.50	Ir	H	P56228	15.4	distant?
			0.70	0.45				0.07	
89	18 30 54.0	+33 20 58	1.50	1.00	Ir?	EL		18.0	cirrus?
			1.30	0.80				0.28	
90	19 41 50.0	+68 27 03	1.30	0.75	Ir?	VL		18.0	refl. neb.?
			1.10	0.75				0.67	
91	19 55 30.6	+04 39 17	0.95	0.55	Ir	L		17.4	
			0.90	0.60				0.46	
92	20 09 34.0	+65 56 03	0.55	0.20	Ir	L			wedge-like
			0.45	0.20				0.41	
93	20 56 56.5	+62 09 15	0.50	0.35	Ir	L		18.3	distant?
			0.50	0.35				2.89	
94	23 06 12.0	+56 14 08	2.5	1.6	Ir?	VL			isol.cirrus?
			1.5	1.0				3.32	
95	23 19 32.3	+85 05 57	1.00	0.70	Sph?	VL		18.0	refl. neb.?
			0.70	0.50				1.36	
96	23 24 10.2	+50 24 02	2.5	2.0	Sph	VL		13.6	Cassiop.dSph
			2.2	1.9				0.84	
97	23 35 50.7	+39 55 08	0.50	0.30	Ir	L			
			0.45	0.25				0.51	
98	23 43 03.9	+38 26 24	1.10	0.65	Ir	L		16.7	blue,granul.
			0.85	0.50				0.54	res. w. 6-m tel
99	23 49 13.9	+24 18 29	4.0	2.0	Sph	VL		14.1	Pegasus dSph
			2.8	1.8				0.28	
100	23 49 51.4	+08 33 45	0.60	0.45	Ir	L			blue,distant?
			0.55	0.40				0.42	
101	23 53 42.8	+05 49 57	0.75	0.50	Ir	L			knots,distant?
			0.75	0.45				0.22	

Table 2. The HI line data for nearby dwarf galaxies

kkh	HI-flux	S_{max}	V_h	line width	V_{LG}	M_B	M_{HI}/L_B	M/L_B	Comments
No.	Jy km s^{-1}	mJy	km s^{-1}	km s^{-1}	km s^{-1}		$M_\odot/L_\odot$	$M_\odot/L_\odot$	
1	2	3	4	5	6	7	8	9	10
1	2.2	98±7	−104 ± 2	25 28 29					local HI
2		±9							
3		±10							
4		±8							
5	1.74	120±9	61±2		326	−12.3	0.6		in Maffei gr.?
6	≥1.3	80±7	70±3		323	−12.7	0.3:		in Maffei gr.?
7		±12							
8	1.3	34±6	1740±4	55 70 72	1861	−15.8	0.6	2.7	
9		±6							
10	7.7	147±10	1558±3	55 71 78	1569	−15.5	3.8	3.9	
11	22.8	260±7	75±1	92 98 103	308	−14.0	1.6	7.1	in Maffei gr.?
12	8.5	220±8	71±1	41 57 63	304	−13.7	0.8	2.2	in Maffei gr.?
13	5.9	96±10	693±2	76 89 91	860	−14.4	2.1	7.6	
14	9.7	97±7	1580±2	108 120 122	1748	−15.6	4.7	11.8	
15	2.5	81±6	−142±2	28 29 44					local HI
16	2.4	40±6	2148±2	99 131 133	2338	−16.2	1.2	7.2	
17		±18							
18	2.6	94±6	216±3	37 52 57	375	−12.6	0.9	2.4	
19	3.0	61±6	2037±2	50 56 63	2269	−16.9	0.8	0.8	
20	10.4	169±9	2131±1	65 78 82	2361	−17.0	2.5	1.1	
21		±9							
22		±8							
23		±5							
24	0.5	20±3	1706±3	32 39 59	1936	−15.8	0.3	0.6	
25	2.20	101±10	−135±2	14 30 35					local HI
26	6.5	135±6	−138±3	46 59 65					local HI
27		±7							
28	3.6	50±7	3508±2	87 95 99	3463	−17.5	1.2	2.3	
29		±5							
30		±5							
31		±6							
32		±7							
33		±6							
34	1.1	60±6	110±2	21 30 32	299	−12.0	0.5	1.5	in Maffei gr.?
35		±6							
36	102.6	554±7	767±1	232 244 248	708	−15.8	6.8	9.3	
37	1.8	70±9	−146±2	25 34 36	57	−8.3	0.8	15.3	local HI?
38	6.5	130±10	451±2	58 67 70	518	−13.1	2.9	9.1	
39	3.1	71±7	1348±2	45 54 57	1159	−14.0	2.9	2.4	
40	2.6	98±12	445±2	27 40 42	510	−12.8	1.4	1.7	

kkh	HI-flux	S_{max}	V_h	line width	V_{LG}	M_B	M_{HI}/L_B	M/L_B	Comments
No.	Jy km s^{-1}	mJy	km s^{-1}	km s^{-1}	km s^{-1}		$M_\odot/L_\odot$	$M_\odot/L_\odot$	
1	2	3	4	5	6	7	8	9	10
41		±5							
42	2.4	41±7	1841±2	63 70 72	2060	−16.5	0.8	1.4	
43	0.9	21±5	1981±4	47 62 63	1855	−14.3	1.7	3.6	
44	1.2	54±6	1054±2	20 28 29	1202	−13.0	3.2	1.4	
45		±9							
46	2.6	100±9	598±2	28 35 39	409	−11.9	2.2	2.8	
47		±12							
48		±5							
49		±9							
50	1.7	34±4	736±3	60 66 69	770	−13.4	1.2	11.5	
51	1.3	40±8	559±2	31 36 37	438	−12.0	1.1	3.6	
52	2.8	80±6	1594±2	32 47 50	1533	−15.0	1.9	0.8	
53		±10							
54	1.2	43±5	535±3	23 34 46	479	−12.6	0.7	1.6	
55		±14							
56		±6							
57		±5							new dSph in M81 group
58	2.8	52±9	587±3	83 100 103	569	−14.0	0.7	12.5	
59	1.9	40 ±6	−160±5	46 56 61					local HI?
60		±10							
61		±5							
62	1.3	36±4	999±2	31 51 56	1068	−13.7	1.4	1.7	
63		±4							
64	11.6	200±9	1070±1	64 73 76	881	−14.0	0.6	7.9	
65		±7							
66		±4							
67		±14							
68	1.3	62±6	878±1	18 23 24	751	−13.5	0.9	0.6	
69	0.9	46±6	882±3	19 26 33	742	−13.1	0.8	1.0	
70	1.4	45±5	−154±2	24 37 39					local HI
71	2.4	45±7	1015 ±2	77 91 93	894	−13.9	1.5	12.3	
72	4.4	153±8	1013±2	24 39 42	839	−13.4	4.1	1.6	
73		±5							
74	0.8	25±3.6	727±3	37 45 46	762	−13.4	0.6	3.7	
75	9.4	430±7	−153±2	20 28 31					local HI
76	1.8	17±6	1081±2	54 60 61	1094	−13.8	0.5	5.1	
77	7.1	126±12	68±2	63 73 79	213	−12.7	0.7	7.8	comp. of NGC4236
78		±6							
79	1.3	44±10	320±2	30 45 47	446	−11.2	2.3	5.4	
80	0.9	48±5	603±2	16 29 33	544	−12.4	0.8	1.1	

kkh	HI-flux	S_{max}	V_h	line width	V_{LG}	M_B	M_{HI}/L_B	M/L_B	Comments
No.	Jy km s^{-1}	mJy	km s^{-1}	km s^{-1}	km s^{-1}		$M_\odot/L_\odot$	$M_\odot/L_\odot$	
1	2	3	4	5	6	7	8	9	10
81	4.5	35±4	1032±4	143 176 178					conf.w. NGC5002 4' W
82		±6							
83	3.5	48±8	1105±2	92 103 104	1174	−14.1	3.3	17.3	
84	5.1	78±4	1233±3	61 98 104	1158	−15.2	1.6	3.0	
85	0.9	33±7	678±2	38 39 52	741	−12.8	1.0	3.4	
86	0.5	27±3	283±3	18 26 29	205	−10.5	0.4	2.2	
87	3.9	86±7	324±2	39 56 67	477	−13.0	1.7	2.9	in M101 group
88	8.7	107±11	933±2	83 97 110	1147	−15.6	1.9	2.5	
89	4.5	160±11	−99±2	36 42 ..					local HI
90	3.2	127±10	−140±2	38 46 47					local HI
91	0.4	34±6	−107±2	15 17 18:					local HI
92		±8							
93	15.8	1060±7	−112±2	45 62 69					local HI
94		±5							
95	2	11±3	3570±7	106 154 ..	3818	−16.9	1.4	5.8	
96		±9							
97		±7							
98	2	89±7	−136 ± 3	26 36 40	152	−10.4	1.0	6.0	
99		±9							
100		±6							
101		±11							